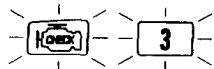
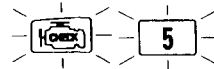


PGM-FI System

Troubleshooting Flowchart — Manifold Absolute Pressure (MAP) Sensor —

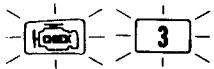
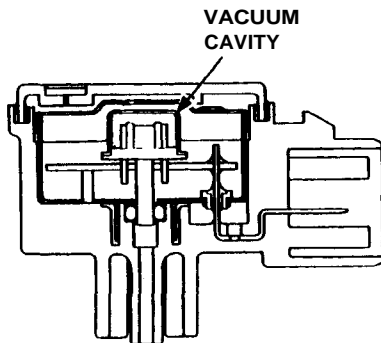


The Malfunction Indicator Lamp (MIL) indicates Diagnostic Trouble Code (DTC) 3: An electrical problem in the Manifold Absolute Pressure (MAP) Sensor system.



The Malfunction Indicator Lamp (MIL) indicates Diagnostic Trouble Code (DTC) 5: A mechanical problem (vacuum leak) in the Manifold Absolute Pressure (MAP) Sensor System.

The MAP sensor converts manifold absolute pressure into electrical signals and inputs the ECM or PCM.



- The MIL has been reported on.
- With service check connector jumped (see page 11-34), code 3 is indicated.

Do the ECM or PCM Reset Procedure (see page 11-35).

Start the engine and allow it to idle.

Is the MIL on and does it indicate code 3?

NO

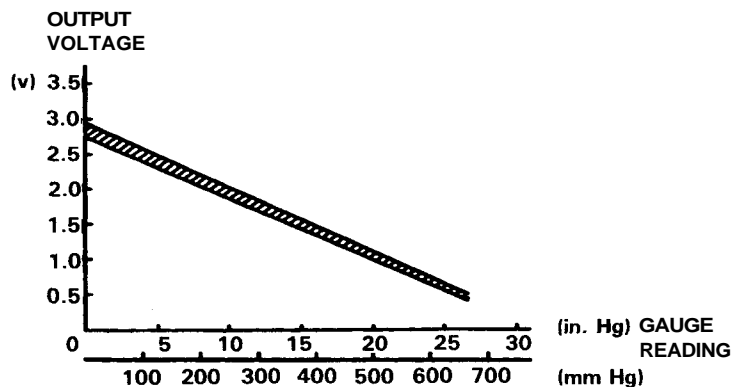
YES

Turn the ignition switch OFF.

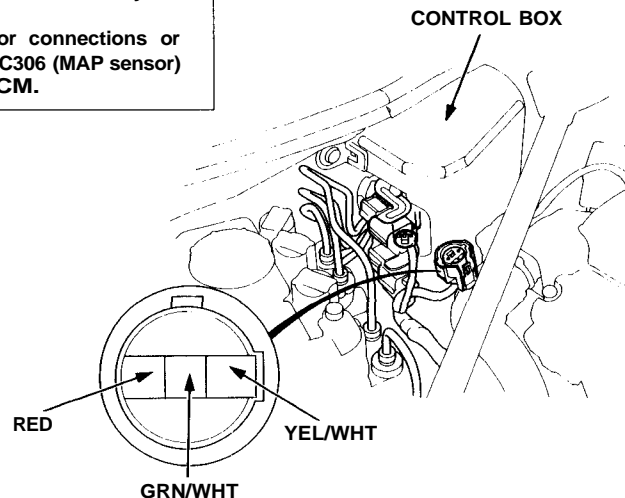
Disconnect the 3P connector from the MAP sensor.

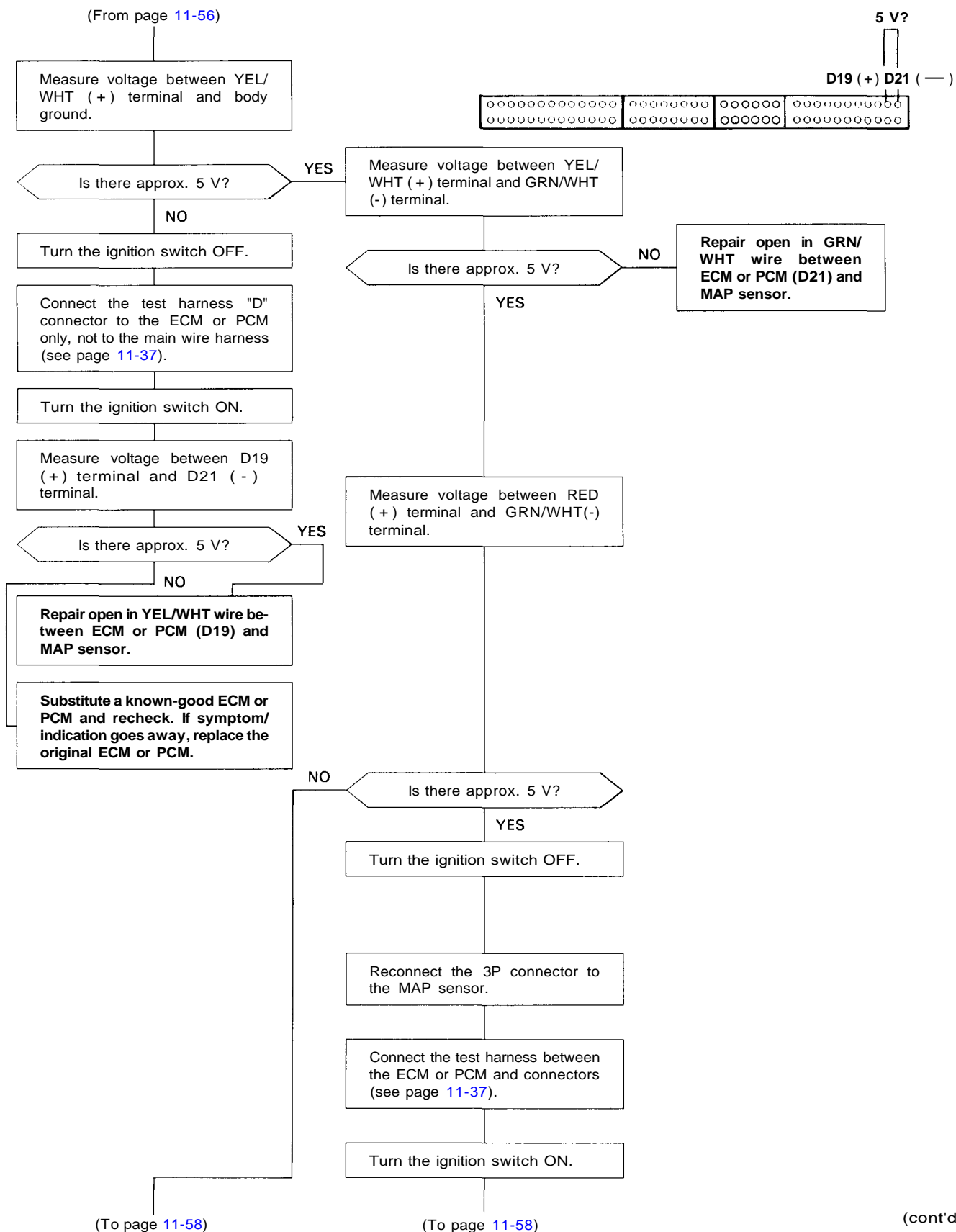
Turn the ignition switch ON.

(To page 11-57)



Intermittent failure, system is OK at this time (test drive may be necessary). Check for poor connections or loose wires at C306 (MAP sensor) and ECM or PCM.

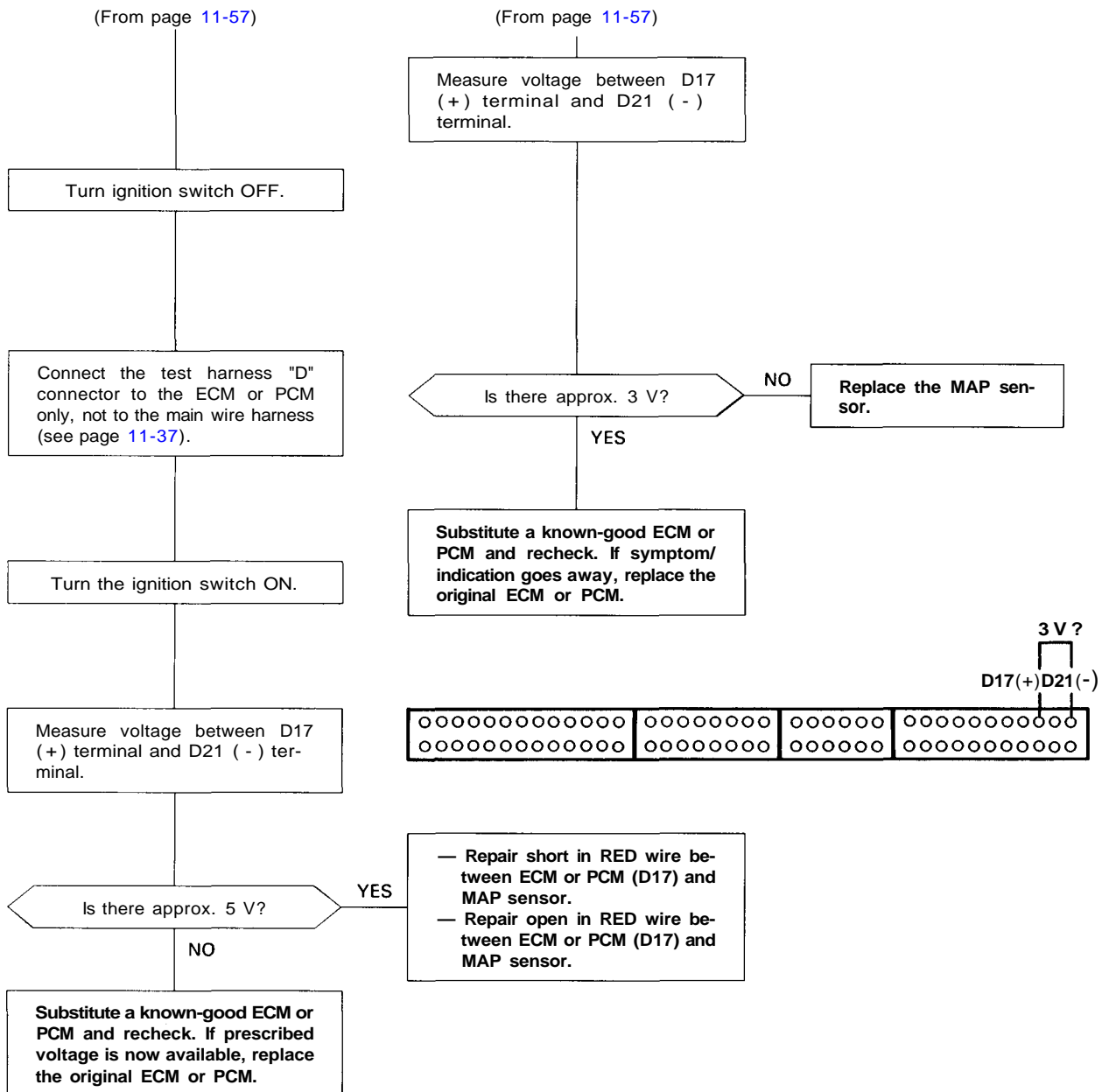




(cont'd)

PGM-FI System

Troubleshooting Flowchart — Manifold Absolute Pressure (MAP) Sensor (cont'd)

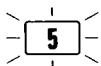
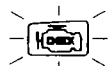


(cont'd)



PGM-FI System

Troubleshooting Flowchart — Manifold Absolute Pressure (MAP) Sensor — (cont'd)



- The MIL has been reported on.
- With service check connector jumped (see page 11-34), code 5 is indicated.

Do the ECM or PCM Reset Procedure (see page 11-35).

Start the engine and keep engine speed at 2,000 rpm for one minute with the manual transmission in neutral (A/T: **P** or **N** position).

Is the MIL on and does it indicate code 5?

NO

YES

Turn the ignition switch OFF.

Disconnect #21 hose from the throttle body, connect vacuum pump to the hose and apply vacuum.

Does it hold vacuum?

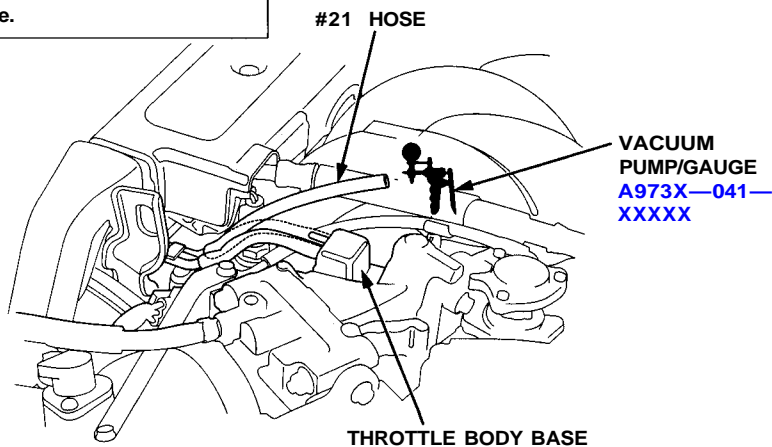
NO

YES

Connect a T-fitting from a vacuum gauge between the throttle body base and #21 hose.

(To page 11-61)

- Intermittent failure, system is OK at this time (test drive may be necessary).
- Check vacuum hoses, pipes and connections.
- Make sure all connectors are secure.



Connect a vacuum pump to the MAP sensor and apply vacuum.

Does it hold vacuum?

NO

YES

Replace the MAP sensor.

Repair vacuum leak in hose routing between MAP sensor and intake manifold.

