

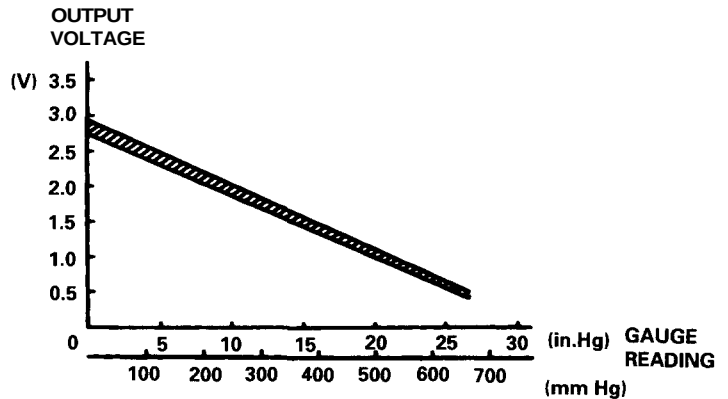
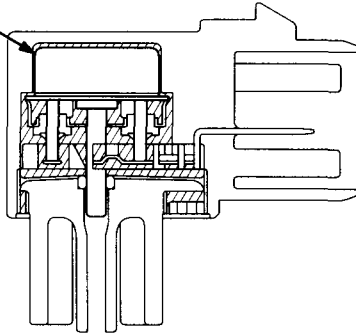


Manifold Absolute Pressure (MAP) Sensor

P0106 The scan tool indicates Diagnostic Trouble Code (DTC) P0106: A range/performance problem (vacuum leak) in the Manifold Absolute Pressure (MAP) Sensor system.

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

SENSOR UNIT



- The MIL has been reported on.
- DTC P0106 is stored.
- Or from Probable Cause List.

Problem verification:

1. Do the PCM Reset Procedure.
2. Start the engine and keep engine speed at 1,000 rpm for 1 minute with the transmission in Park or neutral.

Is DTC P0106 indicated?

YES

NO

Check the MAP sensor output:

1. Stop the engine.
2. Turn the ignition switch ON (II).
3. Check the manifold absolute pressure with the scan tool.

Does it indicate atmospheric pressure?

NO

YES

(To page 11-70)

Check for vacuum leakage between the MAP sensor and throttle body.

Is there leakage?

NO

YES

Repair the vacuum leakage.

Replace the MAP sensor.

Replace the MAP sensor.

Check the MAP sensor output:

1. Stop the engine.
2. Turn the ignition switch ON (II).
3. Check the MAP with the scan tool.

Does it indicate atmospheric pressure?

NO

YES

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(cont'd)

PGM-FI System

Manifold Absolute Pressure (MAP) Sensor (cont'd)

(From page 11-69)

A

Check for poor response:

1. Start the engine. Hold the engine at 3,000 rpm with transmission in Park or neutral until the radiator fan comes on, then stop the engine.
2. Start the engine.
3. Check the MAP with the scan tool.

Is a MAP of 40.0 kPa (300 mmHg, 12.0 in.Hg) or less indicated within 1 second after starting the engine?

NO

Replace the MAP sensor.

YES

The MAP sensor is OK at this time.

(From page 11-69)

B

Check for poor response:

1. Start the engine. Hold the engine at 3,000 rpm with transmission in Park or neutral until the radiator fan comes on, then stop the engine.
2. Start the engine.
3. Check the MAP with the scan tool.

Is a MAP of 40.0 kPa (300 mmHg, 12.0 in.Hg) or less indicated within 1 second after starting the engine?

NO

Replace the MAP sensor.

YES

Substitute a known-good PCM and recheck (see page 11-42 for immobilizer information). If symptom/indication goes away, replace the original PCM.