

DTC SET CONDITIONS

Check Conditions

- 8 minutes or more have passed after starting the engine. Note that this is only if the engine coolant temperature is less than 0°C (32°F) when starting.
- Engine coolant temperature is higher than 45°C (113°F).
- Intake air temperature is higher than 0°C (32°F).
- Volumetric efficiency is between 30 and 45 percent.

Judgment Criteria

- Manifold differential pressure sensor output voltage has continued to be higher than 4.6 volts [corresponding to an absolute pressure of 118 kPa (17 psi) or higher] for 2 seconds.

or

- Manifold differential pressure sensor output voltage has continued to be lower than 0.1 volt [corresponding to an absolute pressure of 2.4 kPa (0.3 psi) or lower] for 2 seconds.

Check Conditions

- 8 minutes or more have passed after starting the engine. Note that this is only if the engine coolant temperature is 0°C (32°F) or more when starting.
- Engine coolant temperature is higher than 45°C (113°F).
- Intake air temperature is higher than 0°C (32°F).

- Volumetric efficiency is lower than 30 percent.

Judgment Criteria

- Manifold differential pressure sensor output voltage has continued to be higher than 4.2 volts [corresponding to an absolute pressure of 108 kPa (16 psi) or higher] for 2 seconds.

Check Conditions

- 8 minutes or more have passed after starting the engine. Note that this is only if the engine coolant temperature is 0°C (32°F) or more when starting.
- Engine coolant temperature is higher than 45°C (113°F).
- Intake air temperature is higher than 0°C (32°F).
- Volumetric efficiency is higher than 70 percent.

Judgment Criteria

- Manifold differential pressure sensor output voltage has continued to be lower than 1.8 volts [corresponding to an absolute pressure of 46 kPa (4.6 psi) or lower] for 2 seconds.

TROUBLESHOOTING HINTS (The most likely causes for this code to be set are:)

- Manifold differential pressure sensor failed.
- Open or shorted manifold differential pressure sensor circuit, harness damage, or connector damage.
- ECM failed.

DIAGNOSIS

Required Special Tools:

- MB991502: Scan Tool (MUT-II)
- MB991958: Scan Tool (MUT-III Sub Assembly)
 - MB991824: V.C.I.
 - MB991827: USB Cable
 - MB991911: Main Harness B