Diagnostic trouble code (DTC) information ECM-121B

Condition

The engine control module (ECM) calculates the expected mass air flow. The calculation is based on a number of different parameters. The calculated value for mass air flow is then compared with the measured value from the mass air flow (MAF) sensor.

The diagnostic trouble code (DTC) is stored if the engine control module (ECM) detects that the correction factor for the air mass (measured air mass/desired air mass value) is too low, while the long-term fuel trim is above or below a set value. The diagnostic trouble code (DTC) can be diagnosed when the engine is running.

Substitution

- Calculated boost pressure
- Calculated air mass
- Rear heated oxygen sensor (HO2S) control shut off
- Misfire diagnostic shut off.

Possible source

- Contact resistance or oxidation in the mass air flow (MAF) connectors
- Air leakage in the intake system
- Blocked intake system
- Damaged mass air flow (MAF) sensor.
Fault symptom[s]

- Malfunction indicator lamp (MIL) lit
- Poor performance.

B5254T2

Flow too low or too high

Checking the intake system

Check the mass air flow (MAF) sensor connector. Check for contact resistance and oxidation.

Check the intake system for leakage. In particular, check the hoses and hose connectors between the mass air flow (MAF) sensor and the throttle unit. Check for leakage and damage.

Check the inside of the throttle body (TB). Check for contamination. When the throttle body (TB) is contaminated, the air flow to the engine is impaired and diagnostic trouble code (DTCs) or fault symptoms can occur. Clean the throttle body (TB) if needed. If no fault is found, try a new mass air flow (MAF) sensor.

Remedy as necessary.

Other information

- **Air leakage in the intake system, checking**
- **Throttle body (TB), cleaning**
- See: Mass air flow (MAF) sensor, replacing
- See: Contents
B6294T

Flow too low or too high

Checking the intake system

Check the mass air flow (MAF) sensor connector. Check for contact resistance and oxidation.

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Check the inside of the throttle body (TB). Check for contamination.
When the throttle body (TB) is contaminated, the air flow to the engine is impaired and diagnostic trouble code (DTCs) or fault symptoms can occur.
Clean the throttle body (TB) if needed.
If no fault is found, try a new mass air flow (MAF) sensor.

Remedy as necessary.

Other information

- Air leakage in the intake system, checking
- Throttle body (TB), cleaning
- See: Mass air flow (MAF) sensor, replacing
- See: Contents
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