P0069

Fault code description

Inlet air pressure in inlet manifold - Data erratic, intermittent or incorrect at ignition on

Possible cause

1. Faulty connector
2. Faulty wiring
3. Faulty sensor
4. Voltage supply drop during start up, affecting the 5 V sensor supply.

Additional information

Monitoring the pressure difference between the boost pressure sensor and the pressure sensor in the ECU PMCI-2.

Set condition of fault code

This diagnostic starts six seconds after the ignition is switched on and it runs once every key cycle.

Reset condition of fault code

This fault code will change to inactive immediately after the diagnostic runs and passes.

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P0069, Diagnostic information

Technical data

"Sensor, boost pressure (F802)"

Location of component(s)

"Location information, PMCI-2"

Electrical diagram(s)

"PMCI-2"

Description of component(s)

"Boost pressure sensor (F802)"

Block diagram

"PMCI-2"

Step by step troubleshooting

Please perform the troubleshooting steps below by utilising the breakout harness if necessary to check electrical components such as sensors, electrical control units or harnesses. Back probing is not recommended as it could damage the harness. The ignition should always be in the OFF position when connecting or disconnecting electrical components to reduce the likelihood of damage to electrical components.

- This troubleshooting tree is based on the assumption that supply power and earth to the PMCI are functioning properly.
- Disconnecting the PMCI connectors during the troubleshooting process will result in multiple errors.
- For specific electrical component information and pin out locations, always refer to the technical data in Rapido.
- It is necessary to exit the 'active errors' screen in DAVIE and run the diagnostic test again to identify a change in errors.
- Remember that the truck's operational or mechanical issues may be the root cause of both active and inactive codes. Refer to the 'possible causes' section in Rapido.

Step 1

With DAVIE connected and Key ON, reprogram the engine basis software with the most recent PRS file.

Navigate through DAVIE and monitor errors.

- If the fault is still active – Proceed to step

2.

- If the fault is NO longer active – Proceed to the verification procedure

Step 2

Visual inspection- Visually inspect all applicable connectors and harnesses for corrosion, damage and rubbing during each step of the diagnostic procedure. Proceed to step 3.

Step 3

With Key OFF, disconnect the pressure sensor. Turn the Key switch ON. Check the voltage between the ground terminal circuit and the supply terminal circuit at the connector harness.

- If the voltage measured is between 4.75 volts and 5.25 volts – Proceed to step 6.
- If the voltage measured is NOT between 4.75 volts and 5.25 volts – Proceed to Step 4.

Step 4

With Key OFF, disconnect the engine harness at the PMCI. Turn the Key switch ON. Check the voltage between the ground terminal circuit and the supply terminal circuit on the PMCI.

- If the voltage measured is between 4.75 volts and 5.25 volts – Replace the engine harness and proceed to the verification procedure.
- If the voltage measured is NOT between 4.75 volts and 5.25 volts – Proceed to Step 5.

Step 5

Possible PMCI failure – Contact the Engine

Support Center for further instruction on replacement of the PMCI.

Step 6

With Key OFF, disconnect the pressure sensor and the engine harness at the PMCI. Check the resistance on the signal wire between the engine harness and the sensor connector.

- If the resistance measured is LESS than 10 ohms – Proceed to step 7
- If the resistance measured is GREATER than 10 ohms – Replace the harness and proceed to the verification procedure

Step 7

With Key OFF, replace the pressure sensor.

- If the fault is still active – Proceed to step 5.
- If the fault is NO longer active – Proceed to the verification procedure

Verification procedure

With DAVIE connected and key ON, clear the errors. Start the engine and let it idle to verify with DAVIE that the errors do not re-occur.

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