P0408

Fault code description

EGR pressure difference - Voltage too high or short circuit to supply

Possible cause

1. Faulty sensor
2. Short circuit to supply on pin C80 of the ECU
3. Short circuit between pin C80 and pin C58 of the ECU
4. Faulty connector

Additional information

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Set condition of fault code

The PMCI-2 detects sensor output voltage is too high (above 4.81 V).

Reset condition of fault code

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

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P0408, Diagnostic information

Technical data

"Sensor, EGR pressure difference (F751)"

Location of component(s)

"Location information, PMCI-2"

Electrical diagram(s)

"PMCI-2"

Description of component(s)

"Sensor, EGR pressure difference (F751)"

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

Visual inspection - Visually inspect all applicable connectors and harnesses for corrosion, damage and rubbing during each step of the diagnostic procedure. Proceed to step 2.

Step 2

With key OFF, disconnect the pressure sensor. Turn the key ON and navigate through DAVIE to read errors.

- If P0407 is active – Proceed to Step 3.
- If P0408 is active – Proceed to Step 4.

Step 3

With key OFF, disconnect the harness from the pressure sensor. Turn the key ON and measure the voltage between a battery earth and the supply terminal of the pressure sensor circuit on the engine harness:

- • If the voltage is between 4.75 and 5.25 V – Replace the pressure sensor and reconnect the harness. Proceed to the verification procedure listed at the end of this document.
- • If the voltage is not between 4.75 and 5.25 V – Proceed to Step 4.

Step 4

With the key ON, clear the codes. Turn the key OFF and install a jumper wire between the 5 V ref pin C58 and the signal wire pin C80 at the PMCI-2 ECU. Turn the key ON and navigate through DAVIE to read errors.

- If P0408 is active – Replace the EGR differential pressure sensor. Proceed to the verification procedure listed at the end of this document.
- If P0407 is active – Proceed to Step 5.

Step 5

Possible PMCI failure – Contact the Engine Support Center for further instructions about replacing the PMCI.

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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