P0698

Fault code description

Inlet air pressure in inlet manifold - Voltage too low or short circuit to ground

Possible cause

1. Short circuit to ground on pin A51 of the ECU
2. Short circuit between pin A47 and pin A51 of the ECU
3. Faulty intake air boost pressure sensor (F802)
4. Short circuit to ground on pin C39 of the ECU

Additional information

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Set condition of fault code

The PMCI-2 detects sensor output voltage is too low (below 0.08 V).

Reset condition of fault code

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

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P0698, 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 utilizing 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 is 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 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 – Proceed to step 3.
- If the voltage is not between 4.75 and 5.25– Proceed to step 4.

Step 3

With key OFF, install a jumper wire between the supply and signal terminals of the pressure sensor connector on the engine harness. Turn the key ON and navigate through DAVIE to read errors:

- If P0699 is active – Replace the pressure sensor and reconnect harness. Continue to the verification procedure listed at the end of this document.
- If P0698 is active – Proceed to step 4.

Step 4

With key OFF, disconnect the engine harness from the PMCI and install a jumper wire between the supply and signal terminals of the sensor circuit on the PMCI. Turn the key on and navigate to read errors:

- If P0699 is active – Replace the engine harness and continue to the verification procedure listed at the end of this document.
- If P0698 is inactive – Proceed to step 5.

Step 5

Possible PMCI failure – Contact the Engine Support Center for further instruction on replacement of 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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