P2542

Fault code description

Fuel pressure - Voltage too high or short circuit to supply

Possible cause

1. Faulty wiring
2. Faulty connector
3. Faulty sensor

Additional information

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Set condition of fault code

The PMCI-2 detects sensor output voltage is too high (above 4.75 V).

Reset condition of fault code

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

M028099 - 07/22/2015 15:02:52

P2542, Diagnostic information

Technical data

"Sensor, fuel pressure (F801)"

Location of component(s)

"Location information, PMCI-2"

Electrical diagram(s)

"PMCI-2"

Description of component(s)

"Fuel pressure sensor (F801)"

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 P2541 is active – Proceed to step 3.
- If P2542 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 measured is between 4.75 and 5.25 V – Replace the sensor and reconnect the harness, and then proceed to the verification procedure listed at the end of this document.
- If the voltage measured is not between 4.75 and 5.25 V – Proceed to step 4.

Step 4

With key OFF, disconnect the engine harness from the PMCI. Turn the key ON and navigate through DAVIE to read errors:

- If P2541 is active – Replace the engine harness and proceed to the verification procedure listed at the end of this document.
- If P2542 is active – 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.

M046664 - 07/22/2015 19:17:50

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