P047D

Fault code description

Exhaust gas pressure after BPV - Voltage too high or short circuit to supply

Possible Cause

1. Faulty wiring
2. Faulty connector
3. Faulty sensor
4. Back pressure too high

Additional information

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Set condition of fault code

The PMCI-2 detects that the sensor output voltage is too high (above 3.6 V).

Reset condition of fault code

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

M028233 - 09/01/2015 16:04:06

P047D, Diagnostic information

Technical data

"Sensor, pressure after BPV (F823)"

Location of component(s)

"Location information, PMCI-2"

Electrical diagram(s)

"PMCI-2"

Description of component(s)

"Pressure after BPV sensor (F823)"

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 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 any 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, 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 P047C is active – Proceed to Step 3.
- If P047D is active – Proceed to step 4.

Step 3

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

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

Step 4

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

- If P047C is active – Replace the engine harness and proceed to the verification procedure listed at the end of this document
- If P047D is active – Proceed to step 5.

Step 5

Check if the exhaust is blocked. Is the exhaust blocked?

- Yes - Fix the blockage
- No – Proceed to step 6.

Step 5

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

M046362 - 07/22/2015 16:08:28