

## P006B

### Fault code description

Exhaust gas pressure after BPV - Data erratic, intermittent or incorrect at ignition on

### Possible cause

1. Long cranking at low temperatures
2. Bad battery

### Additional information

Sensor value compared to a corrected average engine power up temperature

### Set condition of fault code

This diagnostic starts when the ignition is switched on after the engine was switched off for at least three hours.

### Reset condition of fault code

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

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## P006B, 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 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- If the fault is NO longer active – Proceed to the verification procedure.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 harness from the engine harness. Turn the key **ON**. Check the voltage between the earth 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 connector at the PMCI. Turn the key **ON**. Check the voltage between the earth terminal circuit and the supply terminal circuit on the PMCI.

- 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 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 connector 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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