

P2171

Fault code description

BPV actuator - Short circuit to supply on ECU (D365) pin (C71)

Possible cause

1. Faulty wiring
2. Faulty connector
3. Faulty injector

Additional information

-

Set condition of fault code

-

Reset condition of fault code

-

M028303 - 07/22/2015 17:02:48

This information applies exclusively to the entered chassis number or the selected engine type. Please take into account that this information may change daily. Therefore the provided information is only valid on 12-15-2015. You cannot derive any rights from the information provided with respect to vehicles and/or components of another series, with another chassis number, and/or of another date. (/)

P2171, Diagnostic information

Technical data

["BPV actuator \(L020\)"](#)

Location of component(s)

["Location information, PMCI-2"](#)

Electrical diagram(s)

["PMCI-2"](#)

Description of component(s)

["BPV actuator \(L020\)"](#)

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 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**, disconnect the engine harness from the PMCI and from the BPV actuator. Turn the key **ON**. Check the voltage at the PMCI harness terminal.

- If there is 2 V or more at the harness terminal, replace the engine harness. Proceed to the verification procedure at the end of the document.
- If there is no battery voltage, call the Engine Support Center regarding a possible PMCI failure.

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.

M046630 - 07/22/2015 16:19:01

This information applies exclusively to the entered chassis number or the selected engine type. Please take into account that this information may change daily. Therefore the provided information is only valid on 12-15-2015. You cannot derive any rights from the information provided with respect to vehicles and/or components of another series, with another chassis number, and/or of another date. (/)