

P0117

Fault code description

Coolant temperature - Voltage too low or short circuit to ground

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 the sensor output voltage is too low (below 0.23 V).

Reset condition of fault code

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

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P0117, Diagnostic information

Technical data

["Sensor, coolant temperature \(F566\)"](#)

Location of component(s)

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

Electrical diagram(s)

["PMCI-2"](#)

Description of component(s)

["Sensor, coolant temperature \(F566\)"](#)

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 temperature sensor. Turn the key **ON** and navigate through DAVIE to read errors:

- If **P0117 is active** – Replace the sensor and reconnect the harness, and then proceed to the verification procedure listed at the end of this document.
- If **P0118 is active** – Proceed to step 3.

Step 3

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

- If **P0117 is active** – Replace the engine harness and proceed to the verification procedure listed at the end of this document.
- If **P0118 is active** – Proceed to step 4.

Step 4

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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