

P0113

Fault code description

Inlet air temperature in inlet manifold - Voltage too high or short circuit to supply on ECU (D365) pin (A43)

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 4.92 V).

Reset condition of fault code

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

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P0113, Diagnostic information

Technical data

["Sensor, boost temperature \(F804\)"](#)

Location of component(s)

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

Electrical diagram(s)

["PMCI-2"](#)

Description of component(s)

["Boost temperature sensor \(F804\)"](#)

Block diagram

["PMCI-2"](#)

Step by step troubleshooting



Please perform the troubleshooting steps below by utilizing 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 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 harness from the intake air temperature sensor. Turn the key **ON** and measure the voltage between a battery earth and the supply terminal of the intake air temperature sensor circuit on the engine harness:

- If the voltage is above 5.5 V – Proceed to step 4.
- If the voltage is below 5.5 V – Proceed to step 3.

Step 3

With key **OFF**, install a jumper wire between the supply and earth wires of the intake air temperature sensor connector on the engine harness. Turn the key **ON** and navigate through DAVIE to read errors:

- If **P0112 is active** – Replace the sensor and reconnect the harness, and then proceed to the verification procedure listed at the end of this document.
- If **P0113 is active** – Proceed to step 4.

Step 4

With key **OFF**, disconnect the engine harness from the PMCI and install a jumper wire between the supply and earth pins of the sensor circuit on the PMCI. Turn the key **ON** and navigate through DAVIE to read errors:

- If **P0112 is active** – Replace the engine harness and proceed to the verification procedure listed at the end of this document.
- If **P0113 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

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