P3003

Fault code description

ECU power supply - Voltage too low on ECU (D365)

Possible cause

1. Low battery voltage
2. Faulty wiring
3. Faulty connector

Additional information

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Set condition of fault code

This fault is set when the battery voltage (as measured at the PMCI-2) is less than 10 V and the engine is not cranking.

Reset condition of fault code

This fault code will remain latched until the cause of the low voltage is corrected and a full key cycle is performed.

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P3003, Diagnostic information

Technical data

"Power supply and earth of PMCI-2 electronic unit (D365)"

Location of component(s)

"Location information, PMCI-2"

Electrical diagram(s)

"PMCI-2"

Description of component(s)

"PMCI-2 electronic unit (D365)"

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 by step 1: Check battery voltage

Troubleshooting steps

1. Switch the contact off and close all doors.
2. Wait 15 minutes.
3. Measure the voltage at the battery terminals.

Is the resting battery voltage above 12.3 V?

- Yes – Proceed to step 2.
- No – Battery is discharged. Fully charge battery and proceed to step 2.

Step by step 2: Check battery voltage

Troubleshooting steps

1. Start the truck.
2. Measure the voltage at the battery terminals after the engine has idled for 15 minutes.

Is the battery voltage above 13.5 V?

- Yes – Proceed to step 3.
- No – The battery is not being charged. Examine the alternator, wiring and drive belt to determine/repair the cause. Proceed to step 5.

Step by step 3: Validate repair

Troubleshooting steps

1. Clear the fault code.
2. Switch the contact off and on.
3. Check with DAVIE whether the fault code is active.

Does the P1563 code return?

- Yes – Proceed to step 4.
- No – Troubleshooting complete.

Step by step 4: Electrical connections

Troubleshooting steps

1. Examine the connector pins on the PMCI electrical connections for corrosion, spreading and proper seating in the connector housing.

Were any issues identified with the above connections?

- Yes – Correct as needed and perform the code reset procedure (clear codes and key cycle). If the code returns, proceed to step 6.
- No – Proceed to step 5.

Step by step 5: Electrical checks

Troubleshooting steps

1. Perform an electrical check using the specifications found in the technical data link at the top of this document.

Did any of the connections measure outside of specification?

- Yes – Check wires and affected pins for chafing, shorts and corrosion. Perform the code reset condition (top of this document) when this is complete. If the fault code is still active, proceed to step 6.
- No – Perform code reset procedure (top of this document) and complete repair. If the fault code is still active, proceed to step 6.

Step by step 6: Assistance

Contact the PACCAR Engine Support Center for further assistance.

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