P1644

Fault code description

ECU 5V sensor supply - Voltage too high on ECU (D365)

Possible cause

1. Faulty wiring
2. Faulty connector
3. Faulty sensor

Additional information

Monitoring sensor reference voltage

Set condition of fault code

The PMCI-2 detects sensor reference voltage is too high (above 4.81 V).

Reset condition of fault code

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

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P1644, Diagnostic information

Technical data

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Location of component(s)

-

Electrical diagram(s)

"PMCI-2"

Description of component(s)

-

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

- The Ambient Air Temperature sensor is located on the driver's side mirror
- The Ambient Air Temperature sensor circuit is integrated into the engine harness and main cab harness, please use the proper diagram for your respective OEM
- 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 harness for

corrosion, damage and rubbing during each step of the diagnostic procedure. Proceed to step 2.

Step 2

With key ON, program the PMCI with the most current PRS file. Test drive the vehicle to see if the fault code re-appears.

- If the code goes away, proceed to the verification procedure.
- If the code still exists, proceed to step 3

Step 3

Possible PMCI failure – Contact the Engine Support Center for further instructions 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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