P0049

Fault code description

Turbo speed - Higher than overspeed limit

Possible cause

1. Turbo (VTG) is stuck
2. Faulty rotary speed actuator (L037)

Additional information

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Set condition of fault code

VTG speed is higher than 115,000 rpm for more than 1.2 seconds

Reset condition of fault code

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

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P0049, Diagnostic information

Technical data

"Sensor, turbo speed (F683)"

"Rotary speed actuator (L037)"

Location of components

"Location information, PMCI-2"

Electrical diagram(s)

"PMCI-2"

Description of component(s)

"Turbo speed sensor (F683)"

"Rotary speed actuator (L037)"

"Turbo (VTG)"

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: Visual Inspections

Step 1A: Check connections and wiring

Troubleshooting steps

1. Visually inspect the associated fuel system component connections and wiring.

Are any issues found?

- Yes – Repair any issues found. Proceed to step 2A.
- No – Proceed to step 2A.

Step by step 2: Resistance

Step 2A: Check resistance of sensor and wiring

Troubleshooting steps

1. Check the resistance of the sensor and wires. See links at the top of this document for resistance values.

Is there any issue with resistance?

- Yes – Repair any issues found, proceed to step 3.
- No – Replace sensor. Proceed to step 3.

Step by step 3: Validate repair

Step 3A: Check if the fault code is active

Troubleshooting steps

1. Validate the repairs.

Does the fault code become active after validation?

- Yes – Proceed to step 4A.
- No – Troubleshooting completed.

Step by step 4: Contact PACCAR Engine Support Center

Step 4A: Assistance

Contact the PACCAR Engine Support Center for further assistance.

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