P1723

Fault code description

Exhaust gas pressure before turbine - Data valid but too high

Possible cause

1. Leakage in intake air system
2. Blockage of intake air system
3. Leakage in exhaust system
4. Poor performance of VTG
5. Poor performance of back pressure valve (BPV)
6. Poor performance of EGR valve
7. Faulty NOx sensor
8. Faulty lambda sensor
9. Incorrect type of fuel used

Additional information

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Set condition of fault code

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Reset condition of fault code

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

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P1723, Diagnostic information

Technical data

"Sensor, pressure before turbine (F826)"

"Sensor, NOx before catalyst (F844)"

"Sensor, lambda (F834)"

"EGR valve sensor (L033)"

Location of component(s)

"Location information, PMCI-2"

Electrical diagram(s)

"PMCI-2"

Description of component(s)

"Sensor, pressure before turbine (F826)"

"Sensor, NOx before catalyst (F844)"

"Lambda sensor (F834)"

"EGR valve sensor (L033)"

Block diagram

"PMCI-2"

Step by step 1: Related fault codes

Troubleshooting steps

1. Turn the key switch ON.
2. Use DAVIE to check for fault codes.

Are fault codes related to the pressure sensor before turbine active?

- Yes – Proceed with the appropriate fault codes.
- No – Proceed to step 2.

Step by step 2: Visual Inspections

Troubleshooting steps

1. Visually inspect the associated component connections and wiring for any of the following:
   - Loose or broken clamps on the air system.

- Dirt or debris build-up (blockage) at the front of the intercooler.
- Moisture or dirt in the connections.
- Damage to the wire harness or insulation.
- Damaged or disconnected ECU connections.
- Battery damage, contacts that are not tight.
- Cuts, holes or abrasions in the air piping.
- Incorrectly installed sensor.

Was there evidence of any of the above?

- Yes – Clean, adjust, repair, or replace affected components for any issues identified.

  Use DAVIE to re-check for the presence of active faults. If this related fault is no longer active, then this issue has been resolved. If this related fault is still active, proceed to step 3.
- No – Proceed to step 3.

Step by step 3: Pressure sensor before turbine

Troubleshooting steps

1. Visually inspect the identified component for soot and leakage.

Was there evidence of any of the above?

- Yes – Clean, adjust, repair, or replace affected components for any issues identified.

  Use DAVIE to re-check for the presence of active faults. If this related fault is no longer active, then this issue has been resolved. If this related fault is still active, proceed to step 4.
- No – Proceed to step 4.

Step by step 4: Electrical Checks before turbine pressure sensor (F826)

Troubleshooting steps

1. Refer to Rapido electrical diagrams or the links at the top of this document to confirm that the electrical values are within the specified ranges or limits.
2. Check for supply and signal voltages.
3. Check for cable continuity (no open circuit or short circuit).

Are the measured electrical values outside of the expected range or limits?

- Yes – Make the appropriate repairs or component replacements.

  Use DAVIE to re-check for the presence of active faults. If this related fault is no longer active, then this issue has been resolved. If this related fault is still active, proceed to step 4.
- No – Proceed to step 5.

Step by step 5: Pressure sensor before turbine

Troubleshooting steps

1. Replace the identified sensor.
2. Use DAVIE to re-check for the presence of active faults.

Is the fault code inactive?

- Yes – Troubleshooting completed.
- No – Proceed to step 6.

Step by step 6: Check the turbo sector gear

Troubleshooting steps

1. Use the sector span tool to check the range of travel for the turbo sector gear. Follow the relevant job instructions within 'Replace VTG turbocharger actuator' in Engine Rapido.

Is the turbo sector gear able to reach both

span zones (regardless of the effort needed to move it)?

- Yes – Proceed to step 7.
- No – Turbo may need to be replaced. Proceed to step 7.

Step by step 7: Contact PACCAR Engine Support Center

Contact the PACCAR Engine Support Center for further assistance.

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