P1160

Fault code description

Wheel speed, rear axle, left - Out of range

Possible cause

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

Additional information

The vehicle was driven unrealistically fast or the wheel speed sensor is malfunctioning.

Set condition of fault code

The ECU detects that the speed of the left front axle wheel speed sensor > 160 km/h.

Reset condition of fault code

This fault code changes to inactive when a normal wheel speed is detected.

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P1160, Diagnostic information

Technical data

Refer to the OEM service manual for more information.

Location of components

Refer to the OEM service manual for more information.

Electrical diagrams

"PMCI-2"

Description of components

Refer to the OEM service manual for more information.

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 fault codes

Step 1A: Check for fault codes

Troubleshooting steps

1. Before troubleshooting this code, take notice of any other active or inactive fault codes. One or multiple other codes could have been the cause for this code.

Are any wheel speed sensor related codes in other vehicle systems (for example ABS) active?

- Yes – Proceed to appropriate OEM troubleshooting tree.
- No – Proceed to step 2A

Step by step 2: Wheel speed sensor Checks

Step 2A: Visual inspection

Troubleshooting steps

1. Visually inspect the associated component connections and wiring for any of the following:
   - Loose, bent or broken connector or bent, broken, corroded, or pushed back pins
   - Moisture or dirt inside the connector
   - Damage to the wire harness or insulation

- PCI connections are damaged or disconnected
- Batteries are not okay, contacts are not secure
- The related sensor is not installed correctly or it is damaged
- The installed wheel and tyre size is incorrect

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, continue to the next step in the troubleshooting process.
- No – Continue to step 2B

Step 2B: OEM troubleshooting Guide

Please follow OEM troubleshooting guide related to this issue

Step by step 3: Repair verification cycles

Step 3A: Overrun

Troubleshooting steps

Perform these repair verification cycles following any corrective actions taken, to confirm that this fault is no longer active.

With the System Initiation cycle complete, proceed to a road with a speed limit of at least 50 mph. While remaining within the legally posted speed limit, get the truck in the highest gear possible with the engine speed at a

minimum of 1800 rpm. Once the target engine speed has been reached, leave the truck in gear and release the accelerator pedal, allowing the truck to coast until the engine speed has reached 900 rpm. Perform this cycle 4 times.

- For Eaton Ultrashift transmissions, idle drop can only go to 1000 rpm.
- Lock Alison Autoshift transmission into manual mode before performing the verification cycle.

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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