# P0122

## Fault code description

Accelerator pedal position - Voltage too low or short circuit to ground

## Possible cause

1. Faulty wiring
2. Faulty connector
3. Faulty potentiometer

## Additional information

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## Set condition of fault code

The PMCI-2 detects sensor output voltage is too low (below 0.22 V).

## Reset condition of fault code

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

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# P0122, Diagnostic information

## Technical data

Refer to the OEM service manual for more information.

## Location of component(s)

Refer to the OEM service manual for more information.

## Electrical diagram(s)

"PMCI-2"

## Description of component(s)

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: Visual Inspections

Troubleshooting steps

1. Visually inspect the associated component connections and wiring for any of the following:
   - Moisture or dirt in the connections.
   - Damage to the wire harness or insulation.
   - Damaged or disconnected ECU connections.
   - Battery damage or loose battery terminals.
   - Terminals properly inserted.
   - Terminals damaged or loose, possibly caused by probing.

## 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 2.
- No – Proceed to step 2.

## Step by step 2: Electrical checks

Troubleshooting steps

1. Disconnect the (J2 or B) connector from the PMCI-2.
   - Perform the Visual Inspection on pin B49 as noted in Step 1.
   - Measure the resistance between pin B49 and earth. Place the positive lead of the meter on pin B49 and the negative lead on an earth point.

### Does the meter indicate a short circuit?

- Yes – Proceed to step 3
- No – Proceed to step 4.

## Step by step 3: Electrical wiring checks

Troubleshooting steps

1. Leave the PMCI-2 connector (J2 or B) disconnected.
2. Disconnect the engine harness firewall connector.
3. Use E-Cat to find engine harness diagrams for the specific truck being worked on, and identify which terminal is used for the throttle sense position circuit in the firewall connection.
4. Perform the visual inspection on the firewall connector and terminals as noted in Step 1.
5. Measure the resistance between pin B49 and earth.
6. Place the positive lead of the meter on pin B49 of the PMCI-2 connector (J2 or B) and the negative lead on an earth point.

### Does the meter indicate a short circuit?

- Yes – Fault is located in engine harness. Repair or replace the engine harness as needed. Proceed to Step 4.
- No – Troubleshoot the cabin electrical harnesses and accelerator pedal. Make

appropriate repairs or replace harness or components if necessary. Proceed to step 4.

## Step by step 4: Validate repair

Troubleshooting steps

1. Verify that all harness connections were reconnected. Use DAVIE to re-check for the presence of active faults.

## Is the fault code inactive?

- Yes – Proceed to step 5.
- No – Troubleshooting completed.

## Step by step 5: Contact PACCAR Engine Support Center

Contact the PACCAR Engine Support Center for further assistance.

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