

## P2425

### Fault code description

EGR valve - Open circuit on ECU (D375) pin (C5)

### Possible cause

1. Faulty wiring
2. Faulty connector
3. Faulty solenoid valve

### Additional information

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### Set condition of fault code

-

### Reset condition of fault code

-

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## P2425, Diagnostic information

Technical data

["EGR valve sensor \(L033\)"](#)

Location of component(s)

["Location information, PMCI-2"](#)

Electrical diagram(s)

["PMCI-2"](#)

Description of component(s)

["EGR valve sensor \(L033\)"](#)

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 terminal(s).
  - Improperly inserted terminals.
  - Damaged or loose terminals, 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 If this related fault is no longer active, then this issue has been resolved.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. Switch the key OFF.
2. Disconnect the engine harness from the EGR valve.
3. Switch the key ON.
4. Measure the voltage on the harness.
5. See the links at the top of this document for expected electrical values.

Does the meter indicate a voltage within the specifications?

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

### Step by step 3: Electrical wiring checks (voltage)

Troubleshooting steps

1. Switch the key ON.
2. Measure the voltage on the harness while performing a gentle wiggle test on the EGR wire harness.
3. See the links at the top of this document for expected electrical values.

Does the voltage change?

- **Yes** – Repair or replace the engine harness. Proceed to step 5.
- **No** – Proceed to step 4.

### Step by step 4: Electrical wiring checks (continuity)

Troubleshooting steps

1. Switch the key OFF
2. Disconnect the engine harness from the PMCI-2 ECU.
3. Measure the continuity of signal and ground wires.

Is there an open circuit?

- **Yes** – Repair or replace the engine harness. Proceed to step 5
- **No** – Replace the EGR valve. Proceed to

step 5.

### Step by step 5: Validate repair

#### Troubleshooting steps

1. Clear the fault codes.
2. Start the engine and let it idle to verify with DAVIE that the errors do not recur.

#### Is the fault code inactive?

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

### Step by step 6: Contact PACCAR Engine Support Center

Contact the PACCAR Engine Support Center for further assistance.

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