# P0403

## Fault code description

EGR valve position - Power supply incorrect

## Possible cause

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

## Additional information

EGR valve power supply monitoring

## Set condition of fault code

The PMCI-2 detects supply voltage is too low (below 10 V) or too high (above 16 V).

## Reset condition of fault code

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

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# P0403, 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 any 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 1

Visual inspection - Visually inspect all applicable connectors and harnesses for corrosion, damage and rubbing during each step of the diagnostic procedure. Proceed to step 2.

### Step 2

With key OFF, disconnect the engine harness from the EGR valve. With key ON, measure the voltage on the harness.

- If the voltage reading is valid – Proceed to step 3.
- If the voltage reading is not valid – Proceed to step 4.

### Step 3

With key ON, measure the voltage on the harness while performing a gentle wiggle test to the EGR wire harness.

- If the voltage changes – Repair or replace the engine harness. Proceed to the verification procedure.
- If the voltage remains constant– Proceed to step 4.

### Step 4

With key OFF, disconnect the engine harness from the PMCI and measure the continuity of signal and earth wires.

- If there is an open circuit or high resistance – Repair or replace the engine harness. Proceed to the verification procedure.
- If the circuit test passes – Replace the EGR valve. Proceed to the verification procedure.

### Verification procedure

With DAVIE connected and key ON, clear the errors. Start the engine and let it idle to verify with DAVIE that the errors do not re-occur.

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