

## P0405

### Fault code description

EGR valve position - Voltage too low or short circuit to ground

### Possible cause

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

### Additional information

Monitoring EGR position sensor circuit.

### Set condition of fault code

-

### Reset condition of fault code

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

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## P0405, 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 is 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 power supply harness from the EGR valve. With key **ON**, read 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 **OFF**, disconnect the position sensor harness from the EGR valve. Turn the key **ON** and measure the voltage between the supply and earth terminals of the EGR valve position sensor connector on the engine harness:

- If the voltage reading is valid – Proceed to step 5
- If the voltage reading is not valid – Proceed to step 4.

## Step 4

With key **OFF**, disconnect the harness from the PMCI. Measure the voltage for the EGR wiring at the PMCI.

- If the voltage is valid – Replace the engine harness and proceed to the verification procedure.
- If the voltage is not valid – Call the Engine Support Center regarding a possible PMCI failure.

## Step 5

With key **OFF**, replace the EGR valve as per Rapido instructions and 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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