

## P2603

### Fault code description

Coolant pump speed - Too high

### Possible cause

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

### Additional information

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### Set condition of fault code

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### Reset condition of fault code

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## P2603, Diagnostic information

Technical data

["Sensor, coolant pump speed \(F805\)"](#)

Location of component(s)

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

Electrical diagram(s)

["PMCI-2"](#)

Description of component(s)

["Coolant pump speed sensor \(F805\)"](#)

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**, open the hood and check the condition of the water pump belt.

- **If the condition is acceptable** – Proceed to step 3.
- **If the condition is NOT acceptable** – Replace the belt and then proceed to the verification procedure listed at the end of this document.

## Step 3

With key **OFF**, inspect the water pump pulley for damage:

- **If no damage is found** – Proceed to step 4.
- **If damage is found** – See Engine Rapido for water pump repair.

## Step 4

With key **OFF**, disconnect the water pump speed sensor and remove from the water pump. Check for damage or debris:

- **If no damage or debris is found** – Proceed to step 5.
- **If debris or damage is found** – Clean or replace and proceed to the verification procedure at the end of this document.

## Step 5

With key **OFF**, inspect the connection pins of the harness, sensor and PMCI:

- **If the pins are good** – Proceed to step 6.
- **If the pins are NOT good** – Replace and reconnect the engine harness, and then proceed to the verification procedure listed at the end of this document.

## Step 6

With key **OFF**, disconnect the engine harness

from the PMCI. Perform a continuity test on all wires associated with the sensor:

- If the continuity is acceptable – Proceed to step 7.
- If the continuity is NOT acceptable – Replace and reconnect the harness, and then proceed to the verification procedure listed at the end of this document.

## Step 7

Possible PMCI failure – Contact the Engine Support Center for further instructions on replacement of the PMCI.

## 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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