

P3887

Fault code description

Pump module heater - Signal incorrect

Possible cause

1. Short circuit to ground in the pump module signal/temperature wire.
2. Failed pump module.

Additional information

An internal error has been detected in the pump module. This fault code is triggered when the internal temperature sensor of the pump module is reading a different value than the other temperature sensors on the engine. This indicates a problem with the internal temperature sensor of the pump unit.

Set condition of fault code

This diagnostic only runs once per drive cycle at key on.

The dosing control unit detects that the temperature reported by the after-treatment diesel exhaust fluid dosing unit internal temperature sensor does not agree with other temperature sensors on the engine.

Reset condition of fault code

To validate the repair, start the engine and let it idle for 1 minute.

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

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P3887, Diagnostic information

Technical data

["Pump module \(L074\)"](#)

Location of component(s)

["Location information, EAS-3"](#)

Electrical diagram(s)

Refer to the OEM service manual for more information.

Description of component(s)

["Pump module \(L074\)"](#)

Block diagram

["Block diagram EAS-3"](#)

Step by step troubleshooting



Please perform the troubleshooting steps below by utilizing 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.



- Disconnecting the EAS 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.
- It is necessary to exit the fault code menu 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 fault codes. Refer to the 'possible causes' section.

Step by step 1: Check fault codes

Step 1A: Check for fault codes

Troubleshooting steps

1. Turn the key switch ON.
2. Use DAVIE to check for fault codes.

Is fault code P3887 active?

- Yes – Proceed to step 2A
- No – Proceed to step 3A

Step by step 2: Check the pump module and the circuit

Step 2A: Check for a pin to ground short circuit

Troubleshooting steps

1. Turn the key switch OFF.
2. Disconnect the pump module from the harness.
3. Disconnect the EAS-3 actuator from the harness.
4. Check for a pin to ground short circuit.
5. Measure the resistance between the EAS-3 actuator connector pump module signal/temperature pin and ground.

Is the resistance greater than 100k ohms?

- Yes – Replace the pump module - Proceed to step 3A
- No – A pin to ground short circuit on the signal/temperature wire has been detected in the harness. Repair or replace the

harness - Proceed to step 3A

Step by step: Clear the fault code

Step 3A: Disable the fault code

Troubleshooting steps

1. Connect all components.
2. Operate the system within the 'reset condition of the fault code' found in the fault code information.
3. Use DAVIE to verify if the fault codes are inactive.

Is fault code P3887 inactive?

- **Yes** – Proceed to step 3B
- **No** – Return to the troubleshooting steps.
Proceed to step 1A

If all the steps have been completed and checked again contact the Engine Support Center for further instructions.

Step 3B: Clear the inactive fault codes

Troubleshooting steps

1. Connect all components
2. Turn the key switch ON.
3. Use DAVIE to clear the inactive fault codes.

Have all the fault codes been cleared?

- **Yes** – Repair complete
- **No** – Troubleshoot any remaining active fault codes

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