P3892

Fault code description

Pump module (L074) - Heather temperature signal unlikely

Possible cause

1. Extended key on with the engine off.
2. Incomplete DCU power down.
3. Short circuit to earth in the pump module signal/temperature wire.
4. Failed pump module temperature sensor.

Additional information

Do not troubleshoot an inactive P3892 fault code.

An internal error has been detected in the pump module. This fault code is triggered during AdBlue pump module defrosting 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 fault code can have multiple occurrences per drive cycle; the diagnostic is performed after key on during AdBlue pump module defrosting.

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 10 minutes.

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

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This information applies exclusively to the entered chassis number or the selected engine type. Please take into account that this information may change daily. Therefore the provided information is only valid on 12-19-2015. You cannot derive any rights from the information provided with respect to vehicles and/or components of another series, with another chassis number, and/or of another date. (/)

P3892, 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 using 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 P3892 active?

- Yes – Proceed to step 1B
- No – No repair is required. Proceed to step 4A

Step 1B: Check the fault mileage and occurrence count

Troubleshooting steps

1. Use DAVIE to create a diagnostic log file.
2. Examine the log file for fault occurrence and mileage.

Was the fault set at the current vehicle mileage?

- Yes – The fault may have been set due to extended key-on duration during service. Proceed to step 4B.
- No – No proceed to step 2

Step by step 2: Check for corrosion at electrical connectors.

Step 2A: Check for AdBlue deposits or corrosion on pump module pins and wire harness connector.

Troubleshooting steps

1. Turn the key switch OFF.

2. Disconnect the pump module from the harness.
3. Check the pump module for AdBlue deposits or corrosion on the pins of the electrical connector.

Are AdBlue deposits or corrosion visible on the pump module connector?

- Yes – Replace the pump module. An internal leak has been detected within the pump module - Proceed to step 4A
- No – Proceed to step 3A

Step by step 3: Check the pump module wiring harness and pump circuit

Step 3A: Check for pin to pin continuity

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 the OEM wire harness for continuity.
5. Measure the resistance on the harness for the pump module signal/temperature pin. Refer to the appropriate circuit or wiring diagram for connector pin identification.

Is the wire harness resistance less than 10k ohms?

- Yes – Proceed to step 3B
- No – An open signal circuit wire has been detected in the OEM wire harness. Repair or replace the wire harness. Proceed to step 4A

Step 3B: Check for pin to pin continuity

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 the OEM wire harness for continuity.
5. Measure the resistance on the harness for the pump module pin AdBlue pump motor earth. Refer to the appropriate circuit or wiring diagram for connector pin identification.

Is the wire harness resistance less than 10k ohms?

- Yes – Proceed to step 3C
- No – An open signal circuit wire has been detected in the OEM wire harness. Repair or replace the wire harness. Proceed to step 4A

Step 3C: 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 the OEM wire harness for a pin-to-ground short circuit.
5. Measure the resistance on the harness for the pump module pin ground (AdBlue pump motor) to the pump module signal/temperature pin.

Is the wire harness resistance greater than 100k ohms?

- Yes – Review the possible causes section for further troubleshooting and validate the repair by meeting the reset conditions for

the fault code. Proceed to step 4A

- No – A short signal circuit has been detected in the OEM wire harness. Repair or replace the wire harness. Proceed to step 4B

Step by step 4: Clear the fault code

Step 4A: 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 that the fault codes are inactive.

Is fault code P3892 inactive?

- Yes – Proceed to step 4B
- 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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