

P3809

Fault code description

NOx sensor after catalyst - Signal incorrect

Possible cause

1. The NOx after catalyst sensor has malfunctioned or is damaged.
2. The NOx after catalyst sensor internal heater has malfunctioned.

Additional information

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Set condition of fault code

This diagnostic runs continuously when the key switch is in the ON position and the engine is running.

The EAS-3 ECU detects that the NOx after catalyst sensor supply voltage is outside the specified value.

This fault may result in engine torque reduction or vehicle speed limiting.

Reset condition of fault code

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

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P3809, Diagnostic information

Technical data

["Sensor, NOx after catalyst \(F843\)"](#)

Location of component(s)

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

Electrical diagram(s)

Refer to the OEM service manual for more information.

Description of component(s)

["Sensor, NOx after catalyst \(F843\)"](#)

Block diagram

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

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.



- 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 P3812, P3962, P3963 or P3807 active?

- **Yes** – Proceed with the appropriate fault code
- **No** – Proceed to step 1B

Step 1B: Check for fault codes

Troubleshooting steps

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

Is fault code P3809 active?

- **Yes** – An internal error has been detected in the NOx sensor. Replace the NOx sensor. Proceed to step 2A
- **No** – Proceed to step 2A

Step by step 2: Clear the fault code

Step 2A: 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 P3809 inactive?

- **Yes** – Proceed to step 2B
- **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 2B: 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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