

P3981

Fault code description

Diesel Particulate Filter hydro carbon saturation - Drive off malfunction

Possible cause

1. Drive away when the fault code P3980 (HC storage level too high) is active.

Additional information

During long period of idling (or increased idling) HC's (unburned fuel) are stored in the EAS system. When the stored HC level is too high, the driver has to perform a stationary regeneration to burn off the stored HC's in a controlled manner. This to prevent a high thermal load on the EAS system when driving off immediately.

Set condition of fault code

The diagnostic runs when the fault code P3980 (HC storage level too high) is active.

Reset condition of fault code

The fault is cleared after a stationary regeneration of the DPF.

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

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P3981, Diagnostic information

Technical data

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Location of component(s)

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

Electrical diagram(s)

Refer to the OEM service manual for more information.

Description of component(s)

["DPF unit"](#)

["SCR unit"](#)

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 P3981 active?

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

Step by step 2: Stationary regeneration

Step 2A: Perform the DPF regeneration test

Troubleshooting steps

1. Turn the key switch ON.
2. Start the engine.
3. Perform the 'DPF regeneration test'. For more information go to 'Explanatory notes to DAVIE'.

Is fault code P3981 active after the regeneration has completed?

- **Yes** – Check for active fault codes that may have become active during the regeneration. Proceed to step 3A
- **No** – Proceed to step 3A

Step by step 3: 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 P3981 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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