P3835

Fault code description

Fuel dosing module - Leakage detected

Possible cause

1. A stuck open or leaking fuel shut-off valve (more likely if fault code becomes active right after starting engine).
2. An external leak in the fuel supply circuit to the fuel intake module.
3. Clogged fuel dosing nozzle.

Additional information

Active DPF regeneration will be disabled until the fault code is cleared with DAVIE.

The fuel pressure sensor and fuel shut-off valve are located in the fuel intake module.

Set condition of fault code

This diagnostic runs before and after active regeneration of the DPF.

The EAS-3 ECU detects a leaking fuel dosing module or an external leak in the fuel circuit.

Reset condition of fault code

The fault must be cleared with DAVIE prior to validating the repair. Repair can be validated by performing the 'DPF regeneration' test or the 'fuel dosing system override test' with DAVIE.

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P3835, Diagnostic information

Technical data

"Dosing module, fuel (L073)"

Location of component(s)

"Location information, EAS-3"

Electrical diagram(s)

Refer to the OEM service manual for more information.

Description of component(s)

"Dosing module, fuel (L073)"

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.

Are fault codes active (other than 3835), related to the fuel intake module, fuel pressure sensor, fuel shut off valve, air shut off valve or fuel dosing module?

- Yes – Proceed with the appropriate fault code
- No – Proceed to step 2A

Step by step 2: Check resistance

Step 2A: Check resistance

Troubleshooting steps

1. Turn the key switch OFF.
2. Check the following resistance values:

   - Fuel shut-off valve: 4-6 ohms.

   - Air shut-off valve 7-10 ohms.

   - Fuel dosing module: 0.5 - 2 ohms.

Are the resistances within the specified range?

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

Step by step 3: Check the fuel dosing module and the fuel shut off valve system

Step 3A: inspect for fuel leaks

Troubleshooting steps

1. Turn the key switch ON
2. Start the engine and let it run at idle.
3. Pressurise the aftertreatment fuel injection system.
4. Perform the fuel dosing module leak test. For more information, go to 'Explanatory notes to DAVIE'. Performing the test will pressurise the system without injecting fuel. Perform the test 3 times.
5. Inspect the intake module, fuel lines and fuel line connections for leaks.

Are fuel leaks found in the aftertreatment fuel system?

- Yes – Repair the fuel leak - Proceed to step 4A
- No – Proceed to step 3B

Step 3B: Inspect for a leaking fuel intake module

Troubleshooting steps

1. Turn the key switch OFF.
2. Perform the fuel shut-off valve leak test.
3. Disconnect the air supply line between the air shut-off valve and the fuel intake module.
4. Turn the key switch ON
5. Start the engine and let it run at idle.
6. Pressurise the aftertreatment fuel injection system.
7. Perform the fuel dosing module leak test. For more information, go to 'Explanatory notes to DAVIE'. Performing the test will pressurise the system without injecting fuel. Perform the test 3 times.
8. Inspect the intake module, fuel lines and fuel line connections for leaks.

Is a fuel leak found from the fuel intake module?

- Yes – Leaking fuel intake module. Replace leaking fuel intake module. Proceed to step 4A
- No – Proceed to step 3C

Step 3C: Inspect for a leaking fuel dosing module

Troubleshooting steps

1. Turn the key switch OFF.
2. Remove the fuel dosing module.
3. Place the fuel dosing module in a measuring container and cover the measuring container.
4. Perform the fuel dosing module leak test. For more information, go to 'Explanatory notes to DAVIE'. Performing the test will pressurise the system without injecting fuel. Perform the test 3 times.
5. Inspect the fuel dosing module for fuel leaks.

Does the fuel dosing module meet the specifications?

- Yes – 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.
- No – A leaking fuel dosing module has been detected. Replace the fuel dosing module - Proceed to step 4A

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 P3835 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 4B: 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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