P3834

Fault code description

Fuel shut-off valve - Not responding or out of adjustment

Possible cause

1. A stuck closed fuel shut-off valve.
2. A missing or leaking fuel supply line to the fuel intake module.

Additional information

Active DPF filter regeneration will be disabled until the next key cycle when this fault code is active.

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 that the fuel pressure sensor is reading a value lower than the threshold when the fuel shut-off valve is commanded open.

Reset condition of fault code

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

In order for this fault code to clear, perform the 'DPF regeneration test' or the 'fuel dosing system override test' with DAVIE. Once the temperature in the DPF is high enough to inject diesel fuel into the exhaust, the diagnostic will run.

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P3834, Diagnostic information

Technical data

"Intake module, fuel (L072)"

Location of component(s)

"Location information, EAS-3"

Electrical diagram(s)

Refer to the OEM service manual for more information.

Description of component(s)

"Intake module, fuel (L072)"

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 P3830, P3831, P3837, P3838 or P3839 active?

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

Step by step 2: Check the fuel system

Step 2A: Check for fuel filter restrictions

Troubleshooting steps

1. Check for a blocked fuel filter.

Is the fuel filter blocked?

- Yes – Replace the fuel filter - Proceed to step 4A
- No – Proceed to step 3A

Step by step 3: Check the fuel shut-off valve

Step 3A: Inspect for a stuck closed fuel shut-off valve

Troubleshooting steps

1. Turn the key switch OFF.
2. Disconnect the fuel supply line from the fuel dosing module.

3. Place the fuel supply line 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'.
5. Fuel should flow continuously from the supply line during the test.

Is fuel flowing from the supply line?

- Yes – Proceed to step 4A
- No – Damaged fuel shut-off valve. Replace the fuel shut-off valve - 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 if the fault codes are inactive.

Is fault code P3834 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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