# P3860

## Fault code description

Pump module - Initialisation failed

## Possible cause

1. Leaking DEF lines.
2. Short or open circuit in the EAS-3 actuator or pump module wiring harness
3. Failed or malfunctioning DEF pump module.

## Additional information

The DEF pump module monitors its internal temperature and reports it back to the EAS-3 actuator at initial key on, via the pump module signal/pump module temperature wire. After the temperature message has been sent from the pump module to the EAS-3 actuator, this shared wire is switched over to be used for pump control in the pump module.

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

## Set condition of fault code

This diagnostic runs when the key switch is turned to the ON position.

The DEF pump module and the EAS-3 actuator are not able to acknowledge each other at key on, and cannot initialise.

## Reset condition of fault code

After completion of the repair, a key switch cycle is required in order to get the diagnostic to run again and change the fault to inactive.

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

M027886 - 07/22/2015 19:04:00

with respect to vehicles and/or components of another series, with another chassis number, and/or of another date. ( / )

# P3860, 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 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 P3860 inactive?

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

## Step by step 2: Check the pump module and the circuit

### Step 2A: Inspect the pump module and connector pins

Troubleshooting steps

1. Turn the key switch OFF.
2. Disconnect the pump module from the harness.
3. Inspect the pump module harness and connector for:
    1. corroded or dirty pins
    2. damaged pins
    3. pushed back or expanded pins
    4. loose connector
    5. moisture in or on the connector
    6. connector shell damaged
    7. missing or damaged connector seals
    8. wire insulation damage

### Dirty or damaged pins/connector?

- Yes – A dirty or damaged connection has been detected. Clean, repair or replace the damaged connection or harness if possible - Proceed to step 3A
- No – Proceed to step 2B

### Step 2B: Check for fault codes

Troubleshooting steps

1. Turn the key switch ON.
2. Connect the pump module to the harness
3. Use DAVIE to check for fault codes.

### Is fault code P3857, P3902, P3906, P3858, P3903, P3907 or P3859 active?

- Yes – Proceed with the appropriate fault code
- 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 P3860 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

M046807 - 07/23/2015 02:23:04