

## P3932

### Fault code description

Pump module pressure - Pressure stabilisation failed

### Possible cause

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1. Leaking DEF lines.
2. Failed or malfunctioning supply module.
3. Blocked or restricted DEF pump module supply line.
4. Blocked or restricted DEF filters.
5. Malfunctioning DEF pressure sensor inside the pump module.
6. Malfunctioning EAS-3 unit.
7. DEF contamination.

### Additional information

The DEF pressure sensor has reported a reading too high or low for the operating conditions.

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

### Set condition of fault code

This diagnostic runs when the supply module is in the process of building up pressure.

The supply module is unable to maintain the commanded diesel exhaust fluid pressure. The fault code is set when the DEF pressure is above 138 PSI (9.5 bar) or below 123 PSI (8.5 bar) for 50 seconds during the diagnostic pressure build-up phase.

### Reset condition of fault code

To validate the repair, start the engine and make sure the SCR system is fully primed, or perform the 'DEF pump module prime test' with DAVIE.

This fault code will change to inactive

immediately after the diagnostic runs and passes.

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## P3932, 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 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.

#### Is fault code P3932 active?

- **Yes** – Proceed to step 1B
- **No** – Proceed to step 7A

### Step 1B: Check for related fault codes

#### Troubleshooting steps

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

#### Is fault code P3864 or P3865 active?

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

## Step by step 2: Check the DEF pressure sensor 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 damage
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 7A
- **No** – Proceed to step 2B

### Step 2B: Check the circuit response

#### Troubleshooting steps

1. Turn the key switch OFF.
2. Disconnect the pump module from the harness.
3. Turn the key switch ON.
4. Check for the appropriate circuit response after 30 seconds.
5. Use DAVIE to read the fault codes.



Multiple fault codes related to the pump module will become active.

### Is fault code P3864 active?

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

### Step 2C: Check the circuit response

#### Troubleshooting steps

1. Turn the key switch OFF.
2. Disconnect the pump module from the

harness.

3. Place a jumper wire between the DEF pressure sensor signal pin and the earth pin at the pump module connector.
4. Turn the key switch ON.
5. Check for the appropriate circuit response after 30 seconds.
6. Use DAVIE to read the fault codes.



Multiple fault codes related to the pump module will become active.

#### Is fault code P3865 active?

- Yes – Proceed to step 4A
- No – Proceed to step 3A

### Step by step 3: Check the EAS-3 actuator and the circuit

#### Step 3A: Inspect the DEF dosing valve and connector pins

##### Troubleshooting steps

1. Turn the key switch OFF.
2. Disconnect the EAS-3 actuator from the harness.
3. Inspect the EAS-3 actuator 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 damage
  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 7A

- No – Proceed to step 3B

### Step 3B: Check for a pin-to-pin short circuit in the harness

#### Troubleshooting steps

1. Turn the key switch OFF.
2. Disconnect the EAS-3 actuator from the harness.
3. Disconnect the pump module from the harness.
4. Check for a pin-to-pin short circuit.
5. Measure the resistance between the EAS-3 actuator connector DEF pressure sensor signal pin and all other pins in the harness.

#### Is the resistance greater than 100k ohms?

- Yes – Proceed to step 3C
- No – A pin-to-pin short circuit has been detected in the harness. Repair or replace the harness - Proceed to step 7A

### Step 3C: Check for a pin to earth short circuit

#### Troubleshooting steps

1. Turn the key switch OFF.
2. Disconnect the EAS-3 actuator from the harness.
3. Disconnect the pump module from the harness.
4. Check for a pin to earth short circuit.
5. Measure the resistance between the EAS-3 actuator connector DEF pressure sensor signal pin and earth.

#### Is the resistance greater than 100k ohms?

- Yes – Proceed to step 3D
- No – A pin to earth short circuit on the signal wire has been detected in the

harness. Repair or replace the harness -  
Proceed to step 7A

### Step 3D: Check for an inactive fault code

#### Troubleshooting steps

1. Connect all components.
2. Turn the key switch ON.
3. Check for the appropriate circuit response after 30 seconds.
4. Use DAVIE to read the fault codes.

#### Is fault code P3932 inactive?

- **Yes** – The removal and re-installation of the connector corrected the fault - Proceed to step 7A
- **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 on replacement of the EAS-3 actuator.

### Step by step 4: Check the DEF dosing system lines and fittings

#### Step 4A: Inspect the DEF dosing system for external leaks

#### Troubleshooting steps

1. Turn the key switch OFF.
2. Inspect the following DEF lines between:
  1. The DEF tank and the pump module (supply and return line).
  2. The pump module and the DEF dosing valve.
3. Inspect the abovementioned DEF lines and associated fittings/connectors.
  - Check the supply and return line connections are not swapped at the pump module or DEF tank connections. Swapped DEF line connectors cause the pump module to



fail to prime.

- Check the DEF tank connections (supply and return lines) for cracks and pitting.
- Check all three pump module connections and fittings for loose, leaking or damaged connections.
- Disconnect the supply line, pressure line and return line pump module connectors and look for signs of white deposit build-up or blockages.
- Check the supply line for signs of leakage or openings that will allow the pump module to suck in air with the DEF.
- Verify proper sealing at all connection points, including the DEF tank (two connections), pump module (three connections) and DEF dosing valve (one connection).



DEF will form white deposits around leaking connections.

Are any swapped, damaged, leaking or restricted DEF lines/fittings/connections detected in the system?

- **Yes** – Repair the DEF line/fitting/connection. Proceed to step 7A
- **No** – Proceed to step 4B

#### Step 4B: Check the pump module DEF supply line

Troubleshooting steps

1. Turn the key switch OFF.
2. Disconnect the pump module DEF supply line from the pump module.
3. Disconnect the pump module DEF supply line from the DEF tank.
4. Check the pump module DEF supply line for blockages.

5. Check both ends of the pump module DEF supply line for signs of build-up or blockages.
6. Blow compressed air through the pump module DEF supply line to make sure it flows freely.



DEF will form white deposits around leaking connections.

Is the pump module DEF supply line blocked or restricted?

- **Yes** – Try to clean the pump module DEF supply line with lukewarm water and air. If necessary, replace the line. Proceed to step 7A
- **No** – Proceed to step 4C

Step 4C: Check the pump module DEF return line

Troubleshooting steps

1. Turn the key switch OFF.
2. Disconnect the pump module DEF return line from the pump module.
3. Disconnect the pump module DEF return line from the DEF tank.
4. Check the pump module DEF return line for blockages.
5. Check both ends of the pump module DEF return line for signs of build-up or blockages.
6. Blow compressed air through the pump module DEF return line to make sure it flows freely.



DEF will form white deposits around leaking connections.

Is the pump module DEF return line blocked or restricted?

- **Yes** – Try to clean the pump module DEF return line with lukewarm water and air. If necessary, replace the line. Proceed to

## step 7A

- **No** – Proceed to step 4D

### Step 4D: Check for air in the diesel exhaust fluid.

#### Troubleshooting steps

1. Turn the key switch ON.
2. Check for air in the DEF by performing the 'DEF pump module override test' with DAVIE.

#### Is air detected in the DEF?

- **Yes** – Check the pump module fittings, the DEF supply line and fittings between the pump module and DEF tank, and the DEF tank fittings for damage/leaks. Replace or repair damaged/leaking components.  
Proceed to step 7A
- **No** – Proceed to step 4E

### Step 4E: Check the pump module DEF supply line fitting

#### Troubleshooting steps

1. Turn the key switch OFF.
2. Disconnect the pump module DEF supply line from the pump module.
3. Disconnect the pump module DEF supply line fitting from the pump module.
4. Check the pump module DEF supply line fitting for blockages.

#### Is the pump module DEF supply line fitting blocked or restricted?

- **Yes** – Try to clean the pump module DEF supply line fitting with lukewarm water and air. If necessary, replace the line. Proceed to step 7A
- **No** – Proceed to step 5A

### Step by step 5: Check the DEF tank filter.

#### Step 5A: Inspect the DEF tank filter for blockages.

## Troubleshooting steps

1. Turn the key switch OFF.
2. Remove the DEF tank filter from the DEF tank. Refer to the OEM service manual.
3. Inspect the DEF tank filter for signs of blockages or build-up.

### Is the DEF tank filter blocked?

- **Yes** – Clean or replace the DEF tank filter.  
Proceed to step 6A
- **No** – Proceed to step 6A

## Step by step 6: Check the pump module operation

### Step 6A: Check the pump module for proper operation.

## Troubleshooting steps

1. Connect all components.
2. Remove the DEF dosing valve from the decomposition pipe.
3. Perform the DEF pump module override test. For more information go to 'Explanatory notes to DAVIE'.

### Does the DEF pump module meet the specifications?

- **Yes** – Proceed to step 7A
- **No** – Replace the pump module filter.  
Perform the DEF pump module override test again with the new filter. If the measured volume of DEF is still not within the specifications, replace the pump module. Proceed to step 7A

## Step by step 7: Check the DEF quality

### Step 7A: Inspect the DEF quality

## Troubleshooting steps

1. Turn the key switch OFF.
2. Check the DEF quality:

- Visually inspect the DEF in the tank for signs of debris or contamination.
- Use a DEF refractometer to measure the urea concentration.
- Use the oil test paper to test for diesel fuel or oil contamination in the DEF tank.

Is the DEF free of contamination and within the specifications?

- **Yes** – Proceed to step 8A
- **No** – The fluid in the tank is not pure DEF. Drain the tank, clean the system and fill the tank with DEF. Proceed to step 8A

## Step by step 8: Clear the fault code

### Step 8A: 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 P3932 inactive?

- **Yes** – Proceed to step 8B
- **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 8B: 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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