

## P3757

### Fault code description

Exhaust gas temperature after DPF - Voltage too low on ECU (D375) pin (B19)

### Possible cause

1. Signal shorted to earth in the harness.
2. Signal shorted to return or earth in the sensor.
3. Malfunctioning DOC/DPF temperature sensor interface.

### Additional information

The EAS-3 ECU will use a default value of 482°F (250°C) when errors are also detected in the exhaust temperature sensor before DPF.

Otherwise, the value of the exhaust temperature before DPF will be used as a replacement value.

### Set condition of fault code

This diagnostic runs continuously when the key switch is ON.

The EAS-3 ECU detects that the exhaust temperature after DPF sensor signal voltage is less than 0.13 VDC for more than seven seconds.

### Reset condition of fault code

The fault code will change to inactive when the exhaust temperature after DPF sensor signal voltage has returned to normal operating conditions for more than 14 seconds.

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## P3757, Diagnostic information

### Technical data

["Sensor, exhaust temperature after DPF \(F840\)"](#)

### Location of component(s)

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

### Electrical diagram(s)

Refer to the OEM service manual for more information.

### Description of component(s)

["Sensor, exhaust temperature after DPF \(F840\)"](#)

### 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 P3757 inactive?

- Yes – Proceed to step 5A
- No – Proceed to step 2A

## Step by step 2: Check the exhaust temperature after DPF sensor and the circuit

### Step 2A: Inspect the exhaust temperature after DPF sensor and connector pins

#### Troubleshooting steps

1. Turn the key switch OFF.
2. Disconnect the exhaust temperature after DPF sensor from the DOC/DPF temperature sensor interface module.
3. Inspect the DOC/DPF temperature sensor interface module and exhaust temperature after DPF sensor 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 5A
- **No** – Proceed to step 2B

Step 2B: Check the circuit response

Troubleshooting steps

1. Turn the key switch OFF.
2. Disconnect the exhaust temperature after DPF sensor from the DOC/DPF temperature sensor interface module.
3. Turn the key switch ON.
4. Check for the appropriate circuit response after 30 seconds.
5. Use DAVIE to read the fault codes.

Is fault code P3756 active?

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

Step 2C: Check the fault codes and verify the sensor condition

Troubleshooting steps

1. Turn the key switch OFF.
2. Connect the exhaust temperature after DPF sensor to the DOC/DPF temperature sensor interface module.
3. Turn the key switch ON.
4. Check for the appropriate circuit response after 30 seconds.
5. Use DAVIE to read the fault codes.

Is fault code P3757 active?

- **Yes** – A damaged sensor has been detected. Replace the sensor. Proceed to

### step 5A

- **No** – The removal and re-installation of the connector corrected the fault. Proceed to step 5A

## Step by step 3: Check the DOC/DPF temperature sensor interface module

### Step 3A: Inspect the DOC/DPF temperature sensor interface module

#### Troubleshooting steps

1. Turn the key switch OFF.
2. Disconnect all temperature sensors and the harness from the DOC/DPF temperature sensor interface module.
3. Inspect the DOC/DPF temperature sensor interface module 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 DOC/DPF temperature sensor interface module - Proceed to step 5A
- **No** – Proceed to step 3B

### Step 3B: Check for an open circuit in the DOC/DPF temperature sensor interface module

#### Troubleshooting steps

1. Turn the key switch OFF.
2. Disconnect all temperature sensors and the harness from the DOC/DPF temperature sensor interface module.

3. Check for an open circuit.
4. Measure the resistance of each circuit contained within the DOC/DPF temperature sensor interface module.

Is the resistance less than 10 ohms?

- **Yes** – Proceed to step 3C
- **No** – An open circuit has been detected in the DOC/DPF temperature sensor interface module. Replace the DOC/DPF temperature sensor interface module - Proceed to step 5A

Step 3C: Check for a pin-to-pin short circuit in the DOC/DPF temperature sensor interface module

Troubleshooting steps

1. Turn the key switch OFF.
2. Disconnect all temperature sensors and the harness from the DOC/DPF temperature sensor interface module.
3. Check for a pin-to-pin short circuit.
4. Measure the resistance between each pin in each connector in the DOC/DPF temperature sensor interface module to all other pins in the DOC/DPF temperature sensor interface module.

Is the resistance greater than 100k ohms?

- **Yes** – Proceed to step 4A
- **No** – A pin-to-pin short circuit has been detected in the DOC/DPF temperature sensor interface module. Replace the DOC/DPF temperature sensor interface module - Proceed to step 5A

Step by step 4: Check the EAS-3 unit and the harness

Step 4A: Inspect the EAS-3 unit and the harness connector pins

Troubleshooting steps

1. Turn the key switch OFF.

2. Disconnect the EAS-3 unit from the harness.
3. Inspect the harness and EAS-3 unit 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 5A
- **No** – Proceed to step 4B

#### Step 4B: Check for a pin-to-pin short circuit in the harness

##### Troubleshooting steps

1. Turn the key switch OFF.
2. Disconnect the EAS-3 unit from the harness.
3. Disconnect the exhaust temperature after DPF sensor from the harness.
4. Check for a pin-to-pin short circuit.
5. Measure the resistance between the EAS-3 unit connector exhaust temperature after DPF sensor signal pin and all other pins in the harness.

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

- **Yes** – Proceed to step 4C
- **No** – A pin-to-pin short circuit has been detected in the harness. Repair or replace

the harness - Proceed to step 5A

#### Step 4C: Check for a pin to earth short circuit

##### Troubleshooting steps

1. Turn the key switch OFF.
2. Disconnect the EAS-3 unit from the harness.
3. Disconnect the exhaust temperature after DPF sensor from the harness.
4. Check for a pin to earth short circuit.
5. Measure the resistance between the EAS-3 unit connector exhaust temperature after DPF sensor signal pin and earth.

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

- **Yes** – Proceed to step 4D
- **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 5A

#### Step 4D: 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 P3757 inactive?

- **Yes** – The removal and re-installation of the connector corrected the fault - Proceed to step 5A
- **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 instruction on



replacement of the EAS-3 unit.

## Step by step 5: Clear the fault code

### Step 5A: 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 P3757 inactive?

- **Yes** – Proceed to step 5B
- **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 5B: 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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