

P1356

Fault code description

VTG turbo charger actuator temperature - Data valid but too high

Possible cause

1. Air in cooling system
2. Low coolant level
3. Blocked cooling system
4. Faulty rotary speed actuator

Additional information

VTG internal temperature above normal range.

Set condition of fault code

The PMCI-2 detects an internal temperature that is higher than 257°F (125°C)

Reset condition of fault code

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

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P1356, Diagnostic information

Technical data

["Rotary speed actuator \(L037\)"](#)

Location of component(s)

["Location information, PMCI-2"](#)

Electrical diagram(s)

["PMCI-2"](#)

Description of component(s)

["Rotary speed actuator \(L037\)"](#)

Block diagram

["PMCI-2"](#)

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.



- This troubleshooting tree is based on the assumption that supply power and earth to the PMCI are functioning properly.
- Disconnecting the PMCI 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 in Rapido.
- It is necessary to exit the '**active errors**' screen 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 codes. Refer to the 'possible causes' section in Rapido.

Step 1

Check the engine coolant temperature. Is the coolant temperature within specification?

- **Yes** – Proceed to step 3
- **No** – Proceed to step 2.

Step 2

Check the engine coolant level. Is the coolant level within specification?

- **Yes** – Proceed to step 3
- **No** – Top up the coolant. Check for leaks in the cooling system. Proceed to the verification procedure listed at the end of this document.

Step 3

Check if the cooling system is fully vented. Is the cooling system fully vented?

- **Yes** – Proceed to step 4
- **No** – Vent the cooling system. Proceed to the verification procedure listed at the end of this document.

Step 4

Check for damaged or obstructed coolant lines and connectors between turbo, actuator and engine. Are any coolant lines damaged or obstructed?

- **Yes** – Repair the coolant lines. Proceed to the verification procedure listed at the end of this document.
- **No** – Proceed to step 5

Step 5

Verify the accuracy of the temperature reading from the actuator (compare with known standards, such as the in-line coolant probe, or allow the actuator to cool to ambient temperature). Is the reading of the actuator coolant temperature within specification?

- **Yes** – Proceed to verification procedure
- **No** – Replace the actuator. Refer to Rapido for replacement instructions

Verification procedure

With DAVIE connected and key **ON**, clear the errors. Start the engine and let it idle to verify with DAVIE that the errors do not re-occur.

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