P0315

Fault code description

Multiple cylinders - Torque contribution too low

Possible cause

1. Flywheel mounted incorrectly
2. Flywheel damaged

Additional information

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Set condition of fault code

This diagnostic starts 30 seconds after the engine starts and it runs continuously.

The PMCI-2 ECU detects the unbalance after nine seconds at 650 rpm until three seconds at 2000 rpm.

Reset condition of fault code

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

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P0315, Diagnostic information

Technical data

"Sensor, crankshaft (F552)"

Location of component(s)

"Location information, PMCI-2"

Electrical diagram(s)

"PMCI-2"

Description of component(s)

"Crankshaft sensor (F552)"

Block diagram

"PMCI-2"

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

- 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 any 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

Visual inspection - Visually inspect all applicable connectors and harnesses for corrosion, damage and rubbing during each step of the diagnostic procedure. Proceed to step 2.

Step 2

With key OFF, remove the crankshaft sensor and check for contamination and damage.

- If the sensor is ok and not contaminated - Proceed to step 3.
- If the sensor is contaminated – Clean the sensor and proceed to the verification procedure.
- If the sensor is damaged – Replace the sensor and proceed to the verification procedure.

Step 3

Turn the Key OFF, inspect the flywheel for damage.

- If no damage is present – Proceed to step 4.
- If there is damage – Refer to Rapido for repair.

Step 4

With key ON, reprogram the PMCI with the most current PRS file. Test drive the vehicle to see if fault code re-appears

- If the code goes away - Proceed to the verification procedure.
- If the code still exists - Contact the Engine Support Center for further 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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