

## 284: ECM-P030100 Cylinder Misfire Detected.

### Diagnostic trouble code (DTC) information

#### Condition

The engine control module (ECM) checks engine combustion regarding **misfire** by registering speed deviations in flywheel rotation. If a certain number of misfires are detected for several cylinders during a certain number of crankshaft rotations, the misfires are considered emission-related or capable of damaging the catalytic converter and the diagnostic trouble code is generated. The diagnostic trouble code can be diagnosed when the engine is running. The trouble code indicates which cylinder is misfiring:

- ECM-P030100, cylinder 1 **misfire**.
- ECM-P030200, cylinder 2 **misfire**.
- ECM-P030300, cylinder 3 **misfire**.
- ECM-P030400, cylinder 4 **misfire**.
- ECM-P030500, cylinder 5 **misfire**.
- ECM-P030600, cylinder 6 **misfire**.

#### Substitute value

- Nothing.

#### Possible source

- Low fuel level.
- Repeated cold starts where the engine temperature does not reach proper operating temperature between starts.
- Water in spark plug

- wells.
- Damaged spark plug.
- Dirty or damaged cam profile solenoid (CPS).
- Dirty or damaged valve depressor.
- Contaminated or wrong fuel.
- Wrong fuel grade (summer fuel in the winter, certain markets).
- Air leakage.
- Blocked crankcase ventilation.
- Damaged VVT-unit.
- Clogged/leaking injector.
- Faulty fuel pressure.
- Uneven compression.

#### **Fault symptom[s]**

- Malfunction indicator lamp (MIL) lit.
- Malfunction indicator lamp (MIL) flashes.
- Engine **misfire**.
- Engine reluctant to start.
- Poor performance.
- Uneven idle.
- The engine does not run on all cylinders.
- Message in the display.

Diagnostic trouble code (DTC)

information ECM-**P029C68**

#### Condition

The Engine control module (ECM) continually monitors the engine's exhaust gases from the oxygen content in the exhaust gases (the lambda value). Using the built-in functions, the control module can determine the lambda value for each cylinder individually. The diagnostic trouble code (DTC) is stored if the control module detects that:

- The discrepancy in the lambda value between the cylinders in bank 1 (cyl. 1-3) is too great to be compensated using individual fuel trim.

The control module's test for the diagnostic trouble code (DTC) starts in the event of:

- Individual cylinder fuel trim active.

**Note!** The control module can only detect the fault once the test has been started and the diagnostic trouble code (DTC) is stored when the conditions are met.

#### Substitute value

- Individual cylinder fuel trim is deactivated.

#### Possible source

- Mechanical fault causes in the engine.

#### Fault symptom[s]

- None.