

Document Information

Location: Powertrain Systems - Fuel System

Topic: While driving engine loss of power and/or engine stalling. Engine system fault message might be displayed. The engine might not restart if previously stalled.

Condition: Under acceleration

Diagnostic Trouble Codes:

ECM:

P14B871 Fuel pump 1 : PEM Fault : Locked rotor

P008934 Fuel Rail Pressure Sensor : Rationality check fuel pump PWM high duty

P253900 Fuel Rail Pressure Sensor : Rationality range check low

Measure

The fault occurs due to low/insufficient fuel pressure measured at the fuel rail. This is due to a tolerance stack up in the fuel tank being outside the required parameters of the PEM (Fuel pump control unit).

1. Check the part number of the fuel pump control unit - refer to SIS DA-RM-04K002-02-001 - Remove/Install control unit - Fuel tank for access.
2. If part number installed on the vehicle is 14KA014CP or 14KA056CP proceed and replace the PEM with the latest part number 14KA063CP.
3. If part number installed is 14KA063CP, perform initial diagnosis including the below:
 - (a) Check fuel level
 - (b) Check for external fuel leaks
 - (c) Monitor fuel rail pressure, actual vs. target within the ECM actual values. The relevant actual values are:

TABROW_DID0330_pistnd_w_ID816 (Fuel Rail Pressure)

TABROW_DID0331_psollnd_w_ID817 (Fuel Rail Pressure Target)

4. If the target fuel pressure is lower than the actual reading, and the PEM is on the latest part number, submit a Technical Request via the Retailer Portal and make reference to this MTI and confirm your findings of the above checks.

Parts Information

Controller Fuel Pump - 14KA063CP

Warranty Information

Resolution Category

Casual Part Number: N/A

Casual Part Name: N/A

Casual Issue: N/A

Rectification: N/A

Time: N/A

Attachments

N/A

KA Updates Information

02/04/2018

The latest PEM part number has been added to this article - refer to Step 2

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