

**** SOLUTION ****

Title Exhaust Gas Recirculation (EGR) System - Fault Codes SPN 412 FMI 0,2,5; Diagnostic Trouble Codes (DTC) P040A, P040B, P1121 - Temperature Sensor Inspection

Mack Models

Mack Model LEU , LR , MRU - TerraPro , TE - TerraPro , AN - Anthem , CHU - Pinnacle, Axle back , CXU - Pinnacle, Axle front , GR - Granite , GU - Granite , PI - Pinnacle , TD - Titan

Volvo Models

Volvo Model VNL , VNM , VNR , VNX , VAH , VHD

Engine family

Engine family 11L Engine , 13L Engine , 16L Engine , MP7 , MP8 , MP10

**** SOLUTION ****

Cause Issues with the EGR temperature sensor can cause erroneous EGR temperature readings that affect other monitors such as EGR cooler efficiency and EGR mass flow. Issues can include damaged to the sensor or its wiring harness, connector pin fretting, or connector damage.

Solution**If any of the relevant codes appear on a DTC Readout:**

- Inspect the EGR temperature sensor connector for pin damage, dust, oxidation, or corrosion and replace the sensor as necessary.

If damage to the connector or the sensor is found:

- Replace the terminals of the EGR temperature sensor connector on the engine harness.
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Internal comments (FO) Refer to [SB371-54](#) (Volvo) or [SB371-50](#) (Mack).

Solution visibility **Dealer distribution**

Function(s)/component(s) affected

Function affected 1 1 0 EMS , MID 128 – EMS , EGR

Function Group

Function Group 2846 Sensor , 2861 Engine Wiring Harness , 293 EGR (Exhaust Gas Recirculation) , 2932 Cooler

Customer effect

Main customer effect temperature , diagnostics/methodology , efficiency/abnormal behavior , fault code /display

Visual appearance fretted , oxidation

Fault Codes And Error Codes

US10 Fault Codes (SPN-
FMI Format)

SPN 412 FMI 2 , SPN 412 FMI 5 , SPN 412 FMI 0

OBDII Diagnostic Trouble
Codes (P, U, B Format)

P040A , P040B , P1121-00 , P1121-98

Conditions

Vehicle operating mode

when driving , when stationary

Administration

Author

UT0389H

Last modified by

RU4469V

Creation date

13-07-2017 14:07

Date of last update

13-06-2019 17:06

Status

Published

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2.6363637447357178

Number of scores

11
