



Mack Models

Mack Model LR , TE - TerraPro , AN - Anthem , GR - Granite , PI - Pinnacle

Volvo Models

Volvo Model VNL , VNR , VNX , VAH , VHD

Engine family

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

Emission Standard

Emission Standard US17 , US17+OBD16 , US17+OBD18

**** SOLUTION ****

Title Diagnostic Trouble Code (DTC) P009B-13 Fuel Pressure Relief Control – Circuit Open;
 Possible Derate - **US17+OBD16 and Newer Emissions**

Cause Additional diagnostic information for vehicles equipped with a common rail fuel system engine logging P009B-13.

Solution **In addition to the P009B-13 fault code the faults listed below may also be triggered by the open circuit on the Electronic Pressure Relief Valve (EPRV). The P009B-13 must be diagnosed first and repaired before troubleshooting any of these other fault codes.**

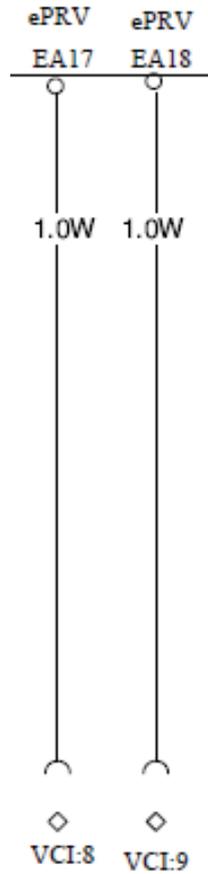
Fault Codes

DT C	Description
P016 F	Closed Loop Fuel Pressure Control At Limit – Pressure Too Low
P228 F	Fuel Pressure Regulator 1 Exceeded Learning Limits – Too High
P103 6	Cold Start Closed Loop Fuel Pressure Control At Limit – Pressure Too Low
P008 7	Fuel Rail/System Pressure – Too Low
P025 7	Injection Pump Fuel Metering Control “B” Range/Performance (Cam /Rotor/Injector)
P2A 17	Injection Pump Fuel Metering Control “D” Range/Performance (Cam /Rotor/Injector)

P2A 1F	Injection Pump Fuel Metering Control “F” Range/Performance (Cam /Rotor/Injector)
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Inspection

1. Visually inspect wiring, connectors, pins, terminals, etc. from Engine Control Module (EMS) Connector EA (Pins 17 & 18) through the VC1 Connector (Pins 8 & 9), to the connector at the ERPV.



2. Using a Digital Volt Ohm Meter (DVOM), measure continuity of each circuit for the EPRV. If an open circuit or high resistance make necessary repairs.
3. If no issues are identified, replace the EPRV and the front internal engine harness.

NOTE: Apply Permatex Dielectric Grease part no. 81150 or 22058 to the pin and socket terminals of the EPRV and harness connector. The grease may be sourced locally.

Solution visibility

Dealer distribution

Function(s)/component(s) affected

Function affected

fuel system

Function Group

Function Group	236 injection pump, regulator and pump companion
Customer effect	
Main customer effect	power , fault code/display
Fault code(s)	
OBDII Diagnostic Trouble Codes (2013-)	P0087-00 , P009B-13 , P016F-00 , P0257-00 , P1036-00 , P228F-00 , P2A17-00 , P2A1F-00
Conditions	
Frequency of occurrence of problem	random
Administration	
Author	UT0455H
Dealer ID	UT0455H
Last modified by	A241298
Creation date	07-02-2019 16:02
Date of last update	12-02-2019 21:02
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