



Mack Models

Mack Model LR , LEU , MRU - TerraPro , AN - Anthem , CHU - Pinnacle, Axle back , CXU - Pinnacle, Axle front , GU - Granite

Volvo Models

Volvo Model VNL , VNM , VNR , VAH , VHD

Engine family

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

Emission Standard

Emission Standard US17 , OBD2017 , 2018

**** SOLUTION ****

Title Diagnostic Trouble Codes (DTC) P0194-00 - Fuel Rail Pressure Sensor, Circuit Erratic, Intermittent And/Or P016E-00 Closed Loop Fuel Pressure At Control Limit, Pressure Too High - **US17+OBD16 (Common Rail Fuel System) Emissions And Newer; Model Year 2017 And Newer**

Cause Common Rail Engines may generate DTCs P0194-00 Fuel Rail Pressure Sensor (RPS) and/or P016E-00 Closed Loop Fuel Pressure At Control Limit, Pressure Too High due to corrosion on the sensor and wire harness terminals. Due to the nature of the fault it may be difficult or not possible to duplicate the symptoms.

Solution **For all active or in-active occurrences of this fault code complete the following process:**

1. Replace the following parts:

- The Fuel Rail Pressure sensor
- The short internal wiring harness that runs between the connector on the lower section of the two-piece valve cover and the pressure sensor



Rail Pressure Sensor Harness

2. Apply a liberal amount of locally purchased, Permatex Dielectric Grease part no. 81150

or 22058 to the pin and socket terminals. Do not over-fill the connectors which may damage the wire seals.

3. Secure the rail pressure sensor wire harness to the connector body with a cable tie to keep the harness away from the valve train components that move during engine operation.

- **NOTE:** Ensure that there is enough slack in the wire that there is no tension on the wires and pins at the connector when securing the cable tie.



Cable tie location



Wires from the sensor connector

Solution visibility	Dealer distribution
Support Area	CBR
Function(s)/component(s) affected	
Function affected	1 1 0 EMS , fuel system
Function Group	
Function Group	237 injector and delivery pipe , 2846 Sensor , 2861 Engine Wiring Harness
Customer effect	
Main customer effect	fault code/display
Fluid implicated	fuel
Fault code(s)	
OBD 2013 Diagnostic Trouble Codes	P016E-00 , P0194-00
Conditions	
Vehicle operating mode	when driving , when stationary
Administration	
Author	UT5061H
Last modified by	A241298
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