

**Mack Models**

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

Volvo Model	VNL , VNM , VNR , VAH , VHD
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Engine family

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

Emission Standard	US17 , US17+OBD16 , US17+OBD18 , US17+OBD19
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**** 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 2018 And Newer
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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 wear of the sensor and wire harness terminals. Due to the nature of the fault it may be difficult or not possible to duplicate the symptoms.
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S For all active or in-active occurrences of this fault code complete the following process:

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l 1. Replace both of the following parts:

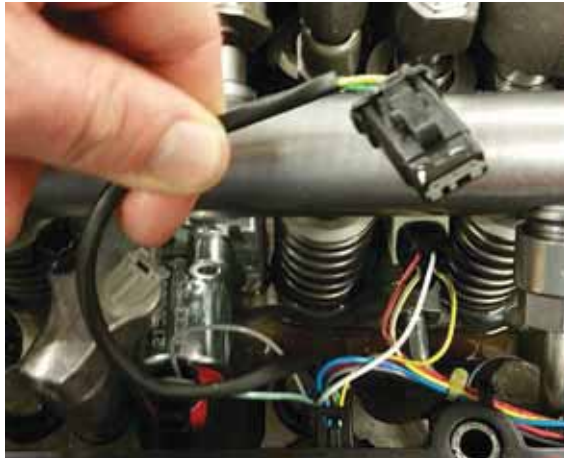
u

t • The Fuel Rail Pressure sensor.

i • The short internal wiring harness that runs between the connector on the lower section of the two-piece valve cover
o and the pressure sensor.

n

Note: Refer to [Impact](#) for current part information.



Rail Pressure Sensor Harness

2. Apply Permatex Dielectric Grease part no. 81150 or 22058 to the pin and socket terminals. The grease may be sourced locally.

2.1. Apply a generous amount of dielectric grease to the connector.



2.2. Push the grease into the connector. Make sure that all openings are completely filled.



2.3. Wipe any excess grease off of the face of the connector. When finished, the connector should look like the

example below:



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
Function(s)/component(s) affected	
Function affected	1 1 0 EMS , high-pressure circuit , injectors
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

Frequency of occurrence of
problem random

Administration

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