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**Mack Models**

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

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**Volvo Models**

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

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**Engine family**

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

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**Emission Standard**

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Emission Standard US17 , US17+OBD16 , US17+OBD18 , US17+OBD19

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**\*\* SOLUTION \*\***

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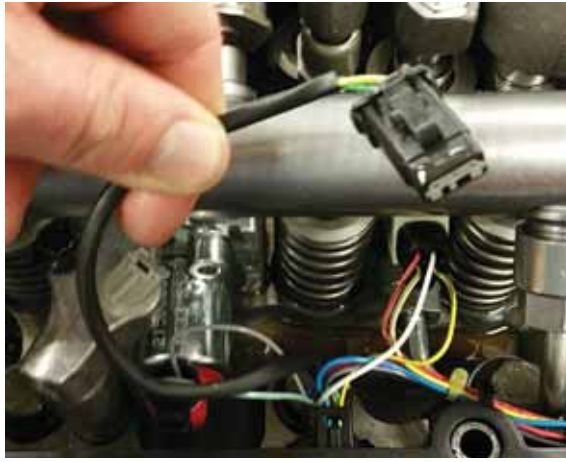
**S** **For all active or in-active occurrences of this fault code complete the following process:**

**o**  
**l**  
**u**  
**t**  
**i**  
**o**  
**n**

**1. Replace both of 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.

**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

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Solution visibility

Dealer distribution

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**Function(s)/component(s) affected**

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Function affected

110 EMS , high-pressure circuit , injectors

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**Function Group**

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Function Group

237 injector and delivery pipe , 2846 Sensor , 2861 Engine Wiring Harness

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**Customer effect**

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Main customer effect

fault code/display

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Fluid implicated

fuel

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**Fault code(s)**

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OBD 2013 Diagnostic

Trouble Codes P016E-00 , P0194-00

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## Conditions

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Vehicle operating mode when driving , when stationary

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Frequency of occurrence of problem random

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## Administration

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Author UT5061H, A148637

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Last modified by RU4469V

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Creation date 10-07-2017 19:07

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Date of last update 30-01-2019 14:01

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Review date 22-08-2017 00:08

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Status Published

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Average score 1.3333333730697632

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Number of scores 6

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NA\_Reviewer UT5061H, A148637

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