



## Solution

### Title (customer effect)

Diagnostic Trouble Code ( DTC ) P0194 - 00 - Fuel Rail Pressure Sensor ( RPS ), Circuit Erratic, Intermittent - US17 ( GHG17 ) Emissions And Newer ( Common Rail Fuel System ); Common Model Years 2017 And 2018

### Cause

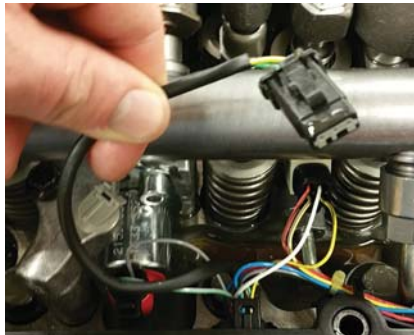
Model Year 2017, 2018 - US17 GHG Engines generate DTC P0194-00 Fuel Rail Pressure Sensor ( RPS ) due to corrosion on the sensor and wire harness terminals (Engineering equipment is needed to see the corrosion and the fault code is the evidence). Due to the nature of the fault it may be difficult or not 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, and the short internal wire harness on the 2-piece valve cover that connects to the sensor.



Rail Pressure Sensor Harness

2. 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 fuel system , 1 1 0 EMS , 2 1 0 ACM , MID 128 – EMS , EECU , Diagnostic tool

### Function Group

Function Group 237 injector and delivery pipe , 2841 Electronic Control Unit , 2846 Sensor , 2861 Engine Wiring Harness

### Customer effect

Main customer effect calibration/programming/pairing/missing operation , diagnostics/methodology , efficiency/abnormal behavior , fault code/display

Fluid implicated fuel

Fluid pressure high pressure , low pressure , zero pressure

### Fault code(s)

OBD 2013 Diagnostic Trouble Codes P0194-00

### Conditions

Vehicle operating mode when driving , when stationary

Frequency of occurrence of problem random

### Administration

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### NA\_MACK\_Vehicle\_Range

**NA\_MACK\_Vehicle\_Range** LR , LEU , MRU , Anthem , CHU , CXU , GU

### NA\_VOLVO\_Vehicle\_Range

**NA\_VOLVO\_Vehicle\_Range** VNR , VNL , VNM , VHD , VAH

### Engine family

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

### Emission Standard

Emission Standard 2018 , OBD2017 , US17 GHG