

TO: Service Locations

FROM: Service Systems Development

SUBJECT: **Hydrocarbon Doser Block Fuel Compensation Pressure Sensor**

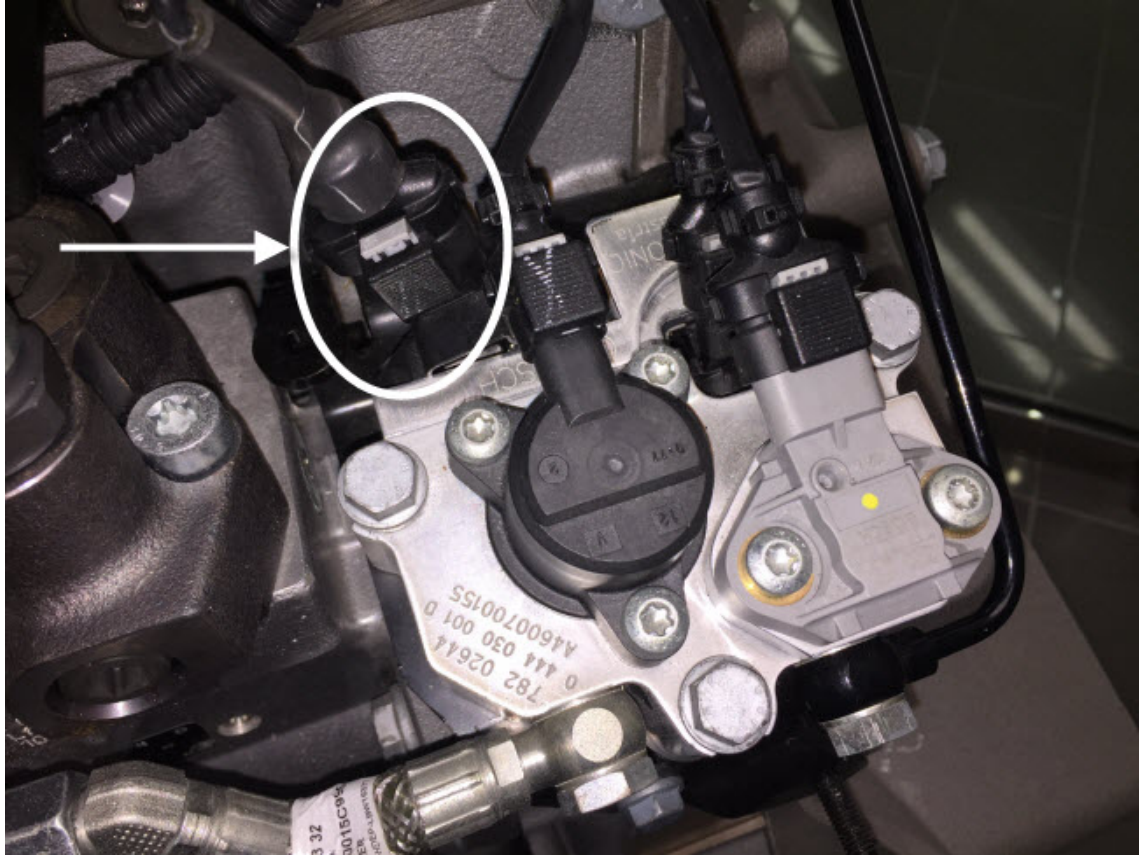
### ISSUE

The Fuel Compensation Pressure Sensor is available as a serviceable part for EPA07, EPA10 and GHG14 models except for the DD15AT with the KM63 GEN2 fuel system. This will reduce the cost and complexity of repairs since the pressure sensor can now be replaced instead of the entire hydrocarbon doser block assembly.

The Fuel Compensation Pressure Sensor monitors fuel pressure into the hydrocarbon doser block assembly in order to properly deliver the correct amount of fuel from the Electronic Dosing Valve. See Figures 1 and 2 for the location of the Fuel Compensation Pressure Sensor.



**Figure 1 – Series 60 Fuel Compensation Pressure Sensor**



**Figure 2 – HDEP Fuel Compensation Pressure Sensor**

## REQUIRED ACTION

Fuel Compensation Pressure Sensor issues are generally related to the following codes:

- SPN 3480, FMI 2 - Doser Fuel Line Pressure Abnormal
- SPN 3480, FMI 14 - Doser FLP Sensors Failed Self Test
- SPN 3480, FMI 21 – Fuel Cut-off Valve Pressure Not Plausible
- SPN 3480, FMI 31 - Fuel Cut Off Valve Pressure Not Plausible

Follow the troubleshooting steps in the *EPA07/10/GHG14 Exhaust – EGR - ATS Manual* (DDC-SVC-MAN-0083). If the troubleshooting leads to replacement of the hydrocarbon doser block assembly, replace only the Fuel Compensation Pressure sensor instead.

### **NOTE - Series 60 engines only:**

Reference Technical Service letter [09 TS-18](#) regarding the installation of a snubber fitting to improve Fuel Compensation Pressure Sensor life in the hydrocarbon doser block assembly.

## REQUIRED MATERIAL

The Fuel Compensation Pressure Sensor is P/N: A4721500025. Shelf stock of the entire doser block assembly (P/N: RA4720700455) cannot be returned.

## REPAIR PROCEDURE

 **WARNING:**  
**PERSONAL INJURY**

**To avoid injury from hot surfaces, wear protective gloves, or allow engine to cool before removing any component.**

1. Shut off engine and apply the parking brake, chock the wheels, disconnect vehicle battery power, and perform any other applicable safety steps.
2. Unplug the connector for the Fuel Compensation Pressure Sensor.
3. Loosen two bolts and remove the Fuel Compensation Pressure Sensor from the hydrocarbon doser block assembly.
4. Install new Fuel Compensation Pressure Sensor into doser block assembly using two bolts. Torque bolts to 11 N·m (8 lb·ft).
5. Plug in connector for Fuel Compensation Pressure Sensor.
6. For Series 60 engines only, reference Technical Service letter [09 TS-18](#) regarding the installation of a snubber fitting.
7. Start engine.

 **WARNING:**  
**ENGINE EXHAUST**

**WARNING: PERSONAL INJURY**

**Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and other reproductive harm.**

1. **Always start and operate an engine in a well-ventilated area.**
2. **If operating an engine in an enclosed area, vent the exhaust to the outside.**

8. Use the command purge function in DDDL/DDRS 7.0 to purge all the air from the doser valve and line.

## CLAIM PROCESS

Normal warranty procedures apply only if a vehicle experiences a performance issue and/or check engine light for a Fuel Compensation Pressure Sensor related issue.

## CONTACT INFORMATION

Please contact the Detroit Diesel Customer Support Center at 800-445-1980 or email [csc@daimler.com](mailto:csc@daimler.com) if you have any questions.