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Service Information Bulletin

SUBJECT	DATE
SPN 94 (MCM)(GHG17)	March 2017

Additions, Revisions, or Updates

Publication Number / Title	Platform	Section Title	Change
DDC-SVC-MAN-0193	GHG17 DD Platform Med Duty	SPN 94/FMI 2 - GHG17	New diagnostic procedure

DiagnosticLink users: Please update the troubleshooting guides in DiagnosticLink with this newest version. To update the tool troubleshooting guide, open DiagnosticLink and from the Help – Troubleshooting Guides menu, select the appropriate troubleshooting manual, then click Update.



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2 SPN 94/FMI 2 - GHG17

Low Side Fuel Pressure Not Plausible

Table 1.

SPN 94/FMI 2	
Description	This Code Sets When The LPPO Fuel Pressure Sensor Reading is Not Plausible or Out of Range
Monitored Parameter	LPPO Fuel Pressure Sensor
Typical Enabling Conditions	Always Enabled
Monitor Sequence	None
Execution Frequency	Always Enabled
Typical Duration	Two Seconds
Dash Lamps	MIL, CEL
Engine Reaction	None
Verification	Engine Idle (One minute)



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.

- Always start and operate an engine in a well ventilated area.
- If operating an engine in an enclosed area, vent the exhaust to the outside.
- Do not modify or tamper with the exhaust system or emission control system.



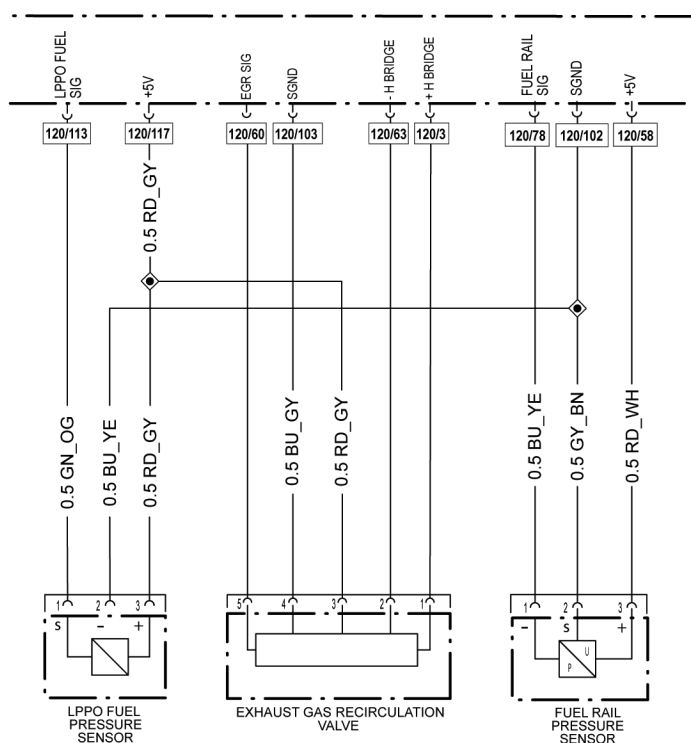
WARNING: PERSONAL INJURY

To avoid injury before starting and running the engine, ensure the vehicle is parked on a level surface, parking brake is set, and the wheels are blocked.



WARNING: ENGINE EXHAUST

To avoid injury from inhaling engine exhaust, always operate the engine in a well-ventilated area. Engine exhaust is toxic.



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Check as follows:

1. Check for other codes. Is SPN 94/FMI 3 or FMI 4 active?
 - a. Yes; repair other codes first.
 - b. No; Go to step 2.
2. Check the MCM software. Is the MCM software 9.1.2.3 ZGS 004 or newer?
 - a. Yes; Go to step 3.
 - b. No; update the software package to the latest software available and verify repair.
3. Check and record fuel tank level. Is the fuel level under $\frac{1}{4}$ tank (25%)?
 - a. Yes; add fuel and road test vehicle. If code does not become active during road test, release the truck. If code becomes active during the road test with over $\frac{1}{4}$ tank of fuel, Go to step 4.
 - b. No; Go to step 4.
4. Disconnect the Low Pressure Pump Output (LPPO) fuel pressure sensor. Inspect the LPPO sensor and harness connector for signs of damage, bent, spread, unseated (pushed out) or corroded pins; signs of moisture indicating seal damage and signs of wire damage near the connector. Is damage present?
 - a. Yes; repair as necessary.
 - b. No; Go to step 5.
5. Turn the ignition ON (key ON, engine OFF).
6. Measure the voltage between pins 2 and 3 on the harness side of the LPPO fuel pressure sensor connector. Is the voltage between 4.75 and 5 volts?
 - a. Yes; Go to step 8.
 - b. No; Go to step 7.
7. Measure the voltage between pin 3 on the harness side of the LPPO fuel pressure sensor connector and battery ground. Is the voltage between 4.75 and 5 volts?
 - a. Yes; repair the wire between pin 2 of the LPPO fuel pressure sensor harness connector and pin 102 of the MCM 120-pin connector.
 - b. No; repair the wire between pin 3 of the LPPO fuel pressure sensor harness connector and pin 117 of the MCM 120-pin connector.
8. Turn the ignition OFF.
9. Disconnect the MCM 120-pin connector.

10. Measure the resistance between pin 1 of the LPPO fuel pressure sensor harness connector and pin 113 of the MCM 120-pin connector. Is the resistance less than three ohms?
 - a. Yes; replace the LPPO fuel pressure sensor.
 - b. No; repair the wire between pin 1 of the LPPO fuel pressure sensor harness connector and pin 113 of the MCM 120-pin connector.