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Service Information Bulletin

SUBJECT	DATE
SPN 3251 (ACM) (GHG17)	September 2016

Additions, Revisions, or Updates

Publication Number / Title	Platform	Section Title	Change
DDC-SVC-MAN-0191	GHG17 DD Platform	SPN 3251/FMI 20 - GHG17	Revision to each step of the 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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Diesel Oxidation Catalyst Inlet Pressure - Not Plausible

Table 1.

SPN 3251/FMI 20	
Description	Diesel Oxidation Catalyst (DOC) Inlet Pressure Sensor - Not Plausible
Monitored Parameter	Exhaust Pressure
Typical Enabling Conditions	Always On
Monitor Sequence	None
Execution Frequency	Continuous When Enabling Conditions Met
Typical Duration	Two Seconds
Dash Lamps	MIL, CEL
Engine Reaction	Derate 25%
Verification	Parked Regen



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.



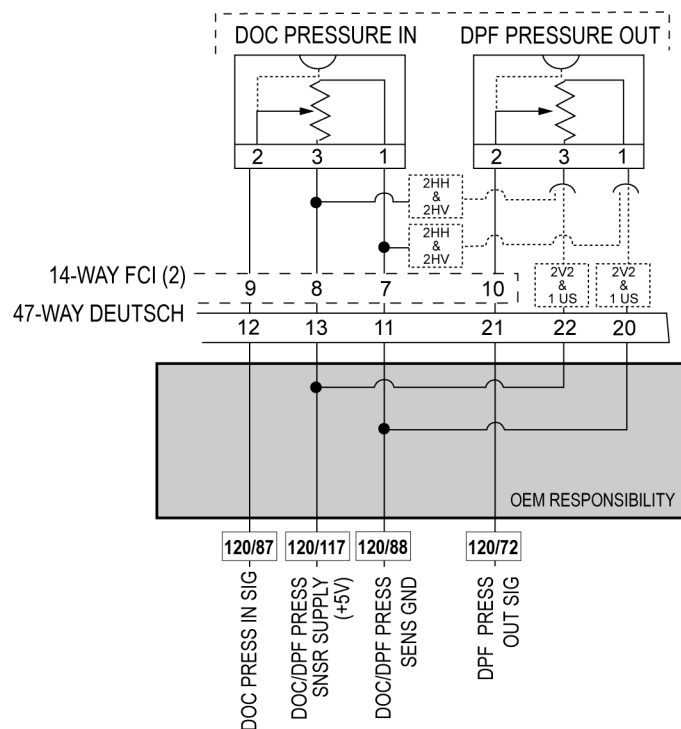
WARNING: PERSONAL INJURY

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. Visually inspect the entire exhaust system for signs of leaks or damage. Is any damage found?
 - a. Yes; repair as necessary. Verify repairs.
 - b. No; Go to step 2.
2. Connect DiagnosticLink[®].
3. Is the aftertreatment a 1-Box[™] configuration?
 - a. Yes; Go to step 4.
 - b. No; Go to step 8.
4. Using the Selective Catalytic Reduction (SCR) voltage service routine, monitor the DOC inlet pressure sensor (pin 87) voltage with key ON and engine OFF.
5. Is the DOC inlet pressure sensor voltage between 0.44 and 0.56 volts?
 - a. Yes; inspect and repair the DOC and DPF pressure sensor tubes and elbows for leaks, kinks, or restrictions.
 - b. No; Go to step 6.
6. Disconnect the DOC inlet pressure sensor connector.
7. Inspect the DOC inlet pressure sensor connector for damaged pins, spread pins, or corrosion. Is there any damage found?
 - a. Yes; repair as necessary. Verify repairs.
 - b. No; replace the sensor. Verify repairs.
8. Using the Selective Catalytic Reduction (SCR) voltage service routine, monitor the DOC inlet pressure sensor (pin 87) and Diesel Particulate Filter (DPF) outlet pressure sensor (pin 72) voltages with key ON and engine OFF.
9. Is the DOC inlet pressure sensor voltage between 0.44 and 0.56 volts?
 - a. Yes; Go to step 13.
 - b. No; Go to step 10.
10. Disconnect the DOC inlet pressure sensor connector.
11. Inspect the DOC inlet pressure sensor connector for damaged pins, spread pins, or corrosion. Is there any damage found?
 - a. Yes; repair as necessary. Verify repairs.
 - b. No; Go to step 12.

12. Measure the voltage from pin 3 of the DOC inlet pressure sensor connector to ground. Is the voltage between 4.5 and 5.5 volts?
 - a. Yes; replace the sensor. Verify repairs. For Two-BOX, Refer to section "Removal of the Diesel Oxidation Catalyst Inlet Pressure Sensor".
 - b. No; repair the wire. Verify repairs.
13. Is the DPF outlet pressure sensor voltage between 0.44 and 0.56 volts?
 - a. Yes; inspect and repair the DOC and DPF pressure sensor tubes and elbows for leaks, kinks, or restrictions. Refer to section "Removal of the Diesel Oxidation Catalyst Inlet Pressure Sensor Tube".
 - b. No; Go to step 14.
14. Disconnect the DPF outlet pressure sensor connector.
15. Inspect the DPF outlet pressure sensor connector for damaged pins, spread pins or corrosion. Is there any damage found?
 - a. Yes; repair as necessary. Verify repairs.
 - b. No; Go to step 16.
16. Measure the voltage between pin 3 of the DPF outlet pressure sensor connector and ground. Is the voltage between 4.5 and 5.5 volts?
 - a. Yes; replace the sensor. Verify repair. Refer to section "Removal of the Diesel Particulate Filter Outlet Pressure Sensor".
 - b. No; repair the wire. Verify repair.