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Service Information Bulletin

SUBJECT	DATE
SPN 4077 (MCM)(EPA07;EPA10;GHG14)	July 2014

Additions, Revisions, or Updates

Publication Number / Title	Platform	Section Title	Change
DDC-SVC-MAN-0084	DD Platform	SPN 4077/FMI 3 - EPA07 - EPA10 - GHG14	The diagnostic procedures have been updated.
		SPN 4077/FMI 4 - EPA07 - EPA10 - GHG14	



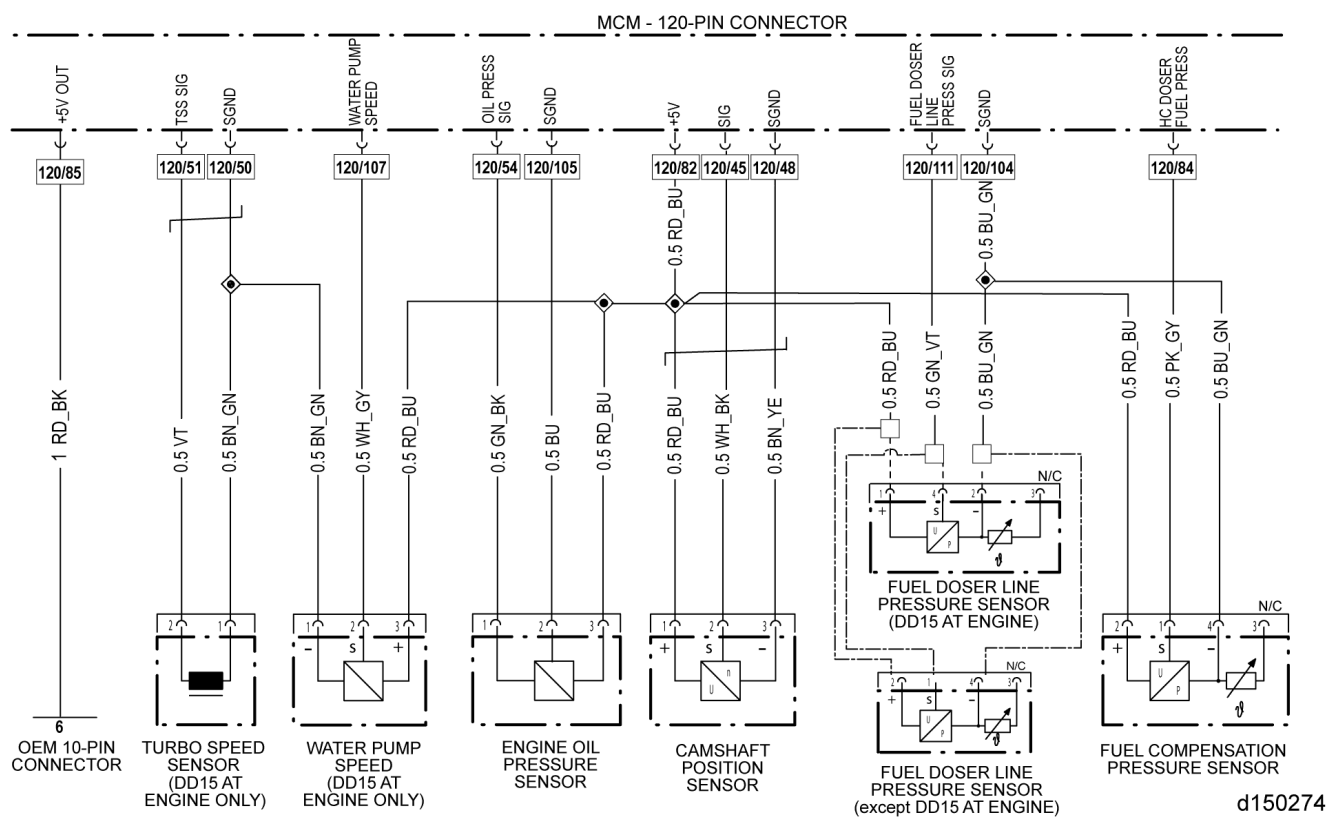
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2 SPN 4077/FMI 3 - EPA07 - EPA10 - GHG14

Doser Fuel Line Pressure Sensor Circuit Failed High

Table 1.

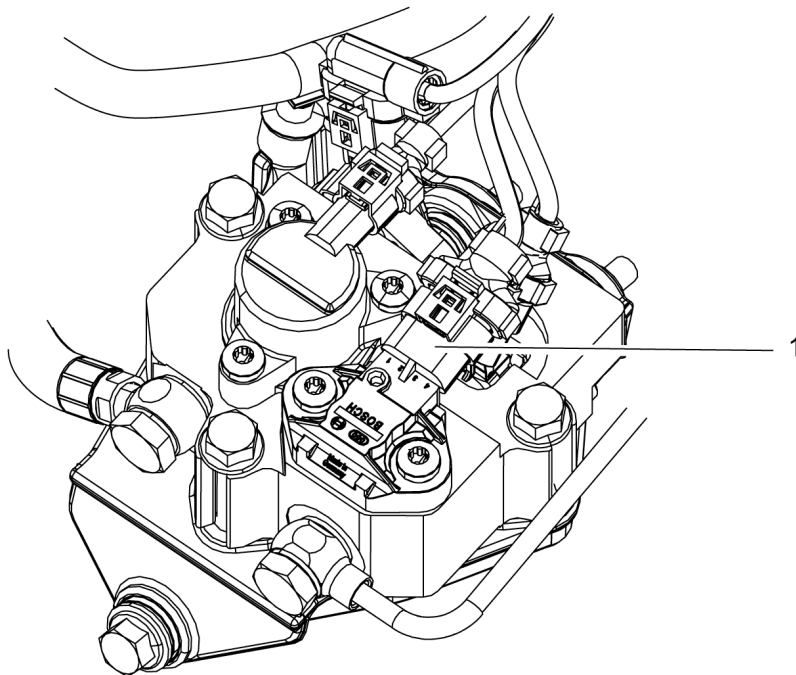
SPN 4077/FMI 3	
Description	This fault code sets when the Motor Control Module (MCM) detects that the Hydrocarbon (HC) Doser Fuel Line Pressure (FLP) Sensor Circuit is failed high.
Monitored Parameter	Hydrocarbon (HC) Doser Fuel Line Pressure Sensor
Typical Enabling Conditions	Always Enabled
Monitor Sequence	None
Execution Frequency	Always Enabled
Typical Duration	2 Seconds
Dash Lamps	MIL, CEL
Engine Reaction	None
Verification	Engine Idle (1 minute)



Check as follows:

1. Connect DiagnosticLink[®].
2. Turn the ignition ON (key ON, engine OFF).
3. Is the engine equipped with a DD15 AT engine?
 - a. Yes; Go to step 11.
 - b. No; Go to step 4.
4. Check for multiple fault codes. Is fault code SPN 3480/FMI 3 also present?

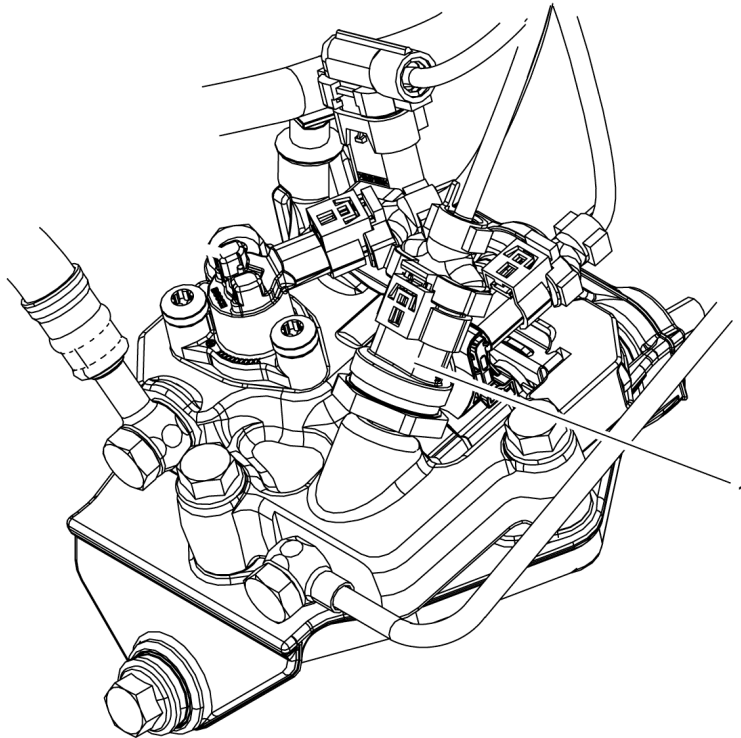
- a. Yes; repair the circuit between pin 104 of the 120-pin Motor Control Module (MCM) and pin 2 of the Fuel Doser Line Pressure sensor electrical connector/pin 2 of the Fuel Compensation Pressure sensor. Verify repair.
 - b. No; Go to step 5.
5. Is fault code SPN 3510/FMI 3 also present?
 - a. Yes; diagnose SPN 3510/FMI 3 first; Refer to section "SPN 3510/FMI 3 - EPA07 - EPA10 - GHG14".
 - b. No; Go to step 6.
6. Turn the ignition OFF.
7. Disconnect the hydrocarbon doser fuel line pressure sensor (1).



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8. Disconnect the 120-pin Motor Control Module (MCM) connector.
9. Measure the resistance from pin 111 of the 120-pin MCM connector harness side and pin 1 of the hydrocarbon doser fuel line pressure sensor electrical connector harness side. Is the resistance less than 5 ohms?
 - a. Yes; Go to step 10.
 - b. No; repair the circuit between pin 111 of the 120-pin MCM connector and pin 1 of the hydrocarbon doser fuel line pressure sensor electrical connector. Verify repair.
10. Measure the resistance from pin 104 of the 120-pin MCM connector harness side and pin 4 of the hydrocarbon doser fuel line pressure sensor electrical connector harness side. Is the resistance less than 5 ohms?
 - a. Yes; replace the Motor Control Module (MCM), Refer to section "Removal of the Motor Control Module". Verify repair.
 - b. No; repair the circuit between pin 2 of the hydrocarbon doser fuel line pressure sensor and the circuit splice. Verify repair.
11. Check for multiple fault codes. Is fault code SPN 3480/FMI 3 also present?
 - a. Yes; repair the circuit between pin 104 of the 120-pin Motor Control Module (MCM) and pin 2 of the Fuel Line Pressure sensor electrical connector/ pin 4 of the Fuel Compensation Pressure sensor electrical connector. Verify repair.
 - b. No; Go to step 12.
12. Is fault code SPN 3510/FMI 3 also present?
 - a. Yes; diagnose fault code SPN 3510/FMI 3 first, Refer to section "SPN 3510/FMI 3 - EPA07 - EPA10 - GHG14".
 - b. No; Go to step 13.
13. Turn the ignition OFF. Go to step 14.

14. Disconnect the hydrocarbon doser fuel line pressure sensor (1).



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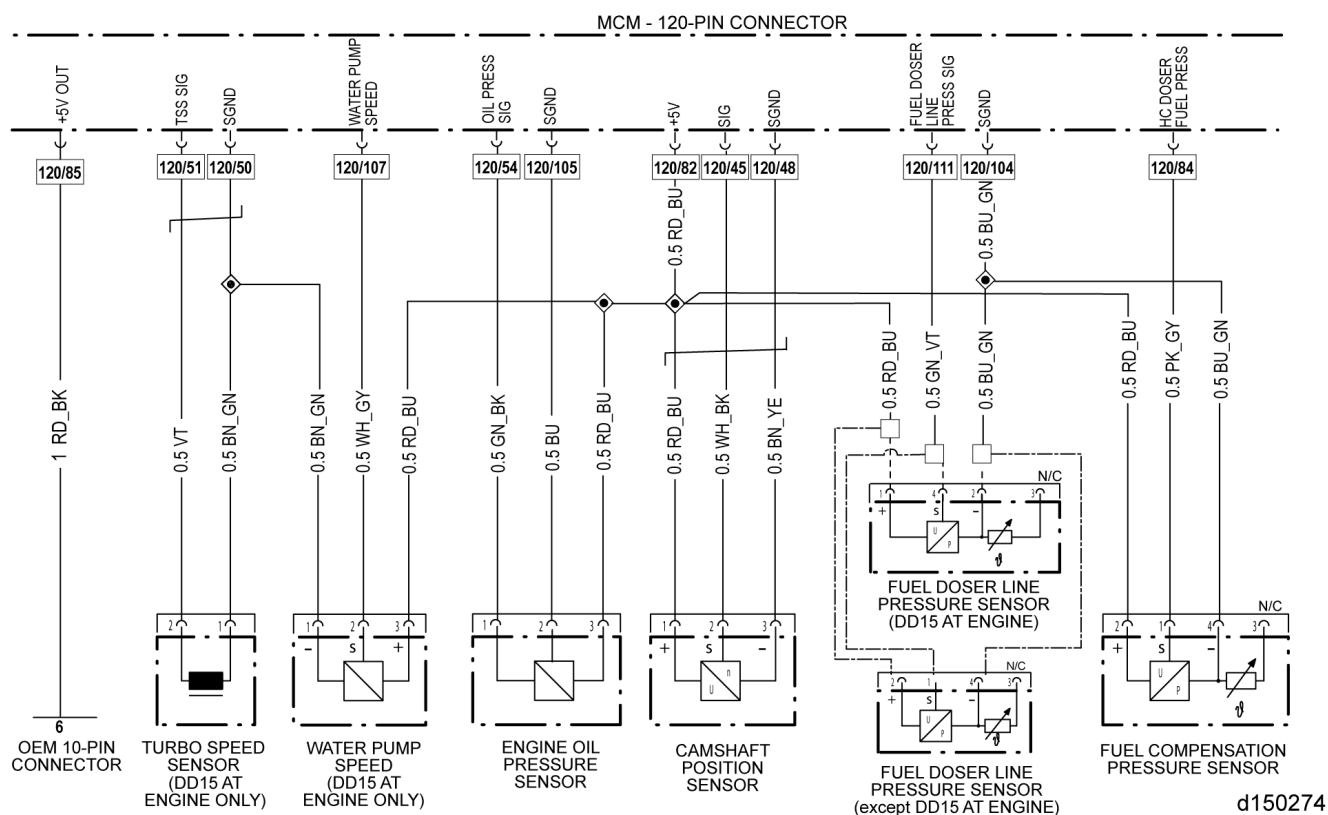
15. Disconnect the 120-pin Motor Control Module (MCM) connector.
16. Measure the resistance from pin 111 of the 120-pin MCM connector harness side and pin 4 of the hydrocarbon doser fuel line pressure sensor electrical connector harness side. Is the resistance less than 5 ohms?
- a. Yes; replace the MCM, Refer to section "Removal of the Motor Control Module". Verify repair.
 - b. No; repair the circuit between pin 111 of the 120-pin MCM connector and pin 4 of the hydrocarbon doser fuel line pressure sensor electrical connector. Verify repair.

3 SPN 4077/FMI 4 - EPA07 - EPA10 - GHG14

Doser Fuel Line Pressure Sensor Circuit Failed Low

Table 2.

SPN 4077/FMI 4	
Description	This fault code sets when the Motor Control Module (MCM) detects that the Hydrocarbon (HC) Doser Fuel Line Pressure (FLP) Sensor Circuit is failed low.
Monitored Parameter	Hydrocarbon (HC) Doser Fuel Line Pressure Sensor
Typical Enabling Conditions	Always Enabled
Monitor Sequence	None
Execution Frequency	Always Enabled
Typical Duration	2 Seconds
Dash Lamps	MIL, CEL
Engine Reaction	None
Verification	Engine Idle (1 minute)

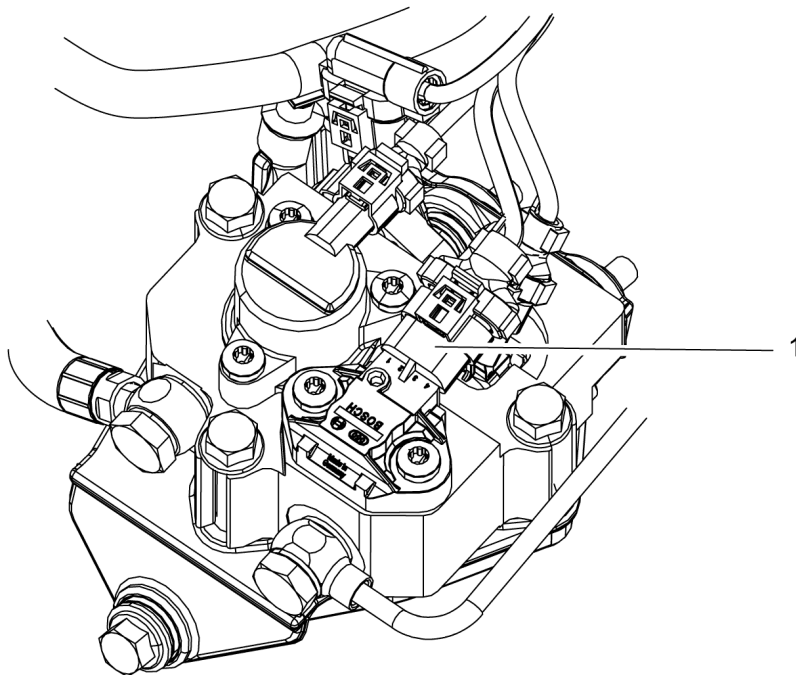


Check as follows:

1. Connect DiagnosticLink[®].
2. Turn the ignition ON (key ON, engine OFF).
3. Check for multiple fault codes. Is fault code SPN 3510/FMI 4 also present?
 - a. Yes; diagnose SPN 3510/FMI 4; Refer to section "SPN 3510/FMI 4 - EPA07 - EPA10 - GHG14".
 - b. No; Go to step 4.
4. Is this vehicle equipped with a DD15 AT engine?

- a. Yes; Go to step 6.
- b. No; Go to step 5.

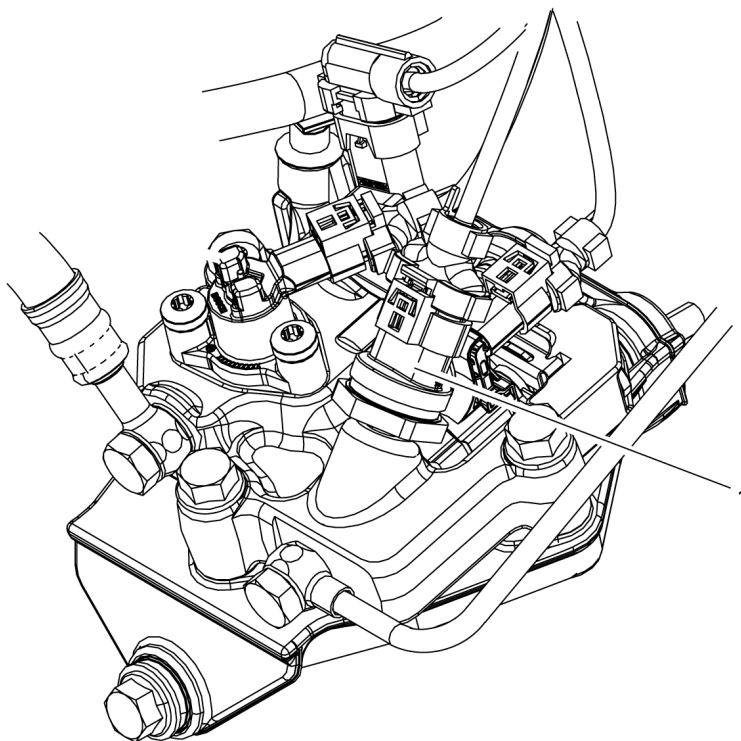
5. Disconnect the Hydrocarbon doser fuel line pressure sensor (1). Is fault code SPN 4077/FMI 4 still present?



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- a. Yes; repair the circuit between pin 111 of the 120-pin MCM connector and pin 1 of the hydrocarbon doser fuel line pressure sensor connector. Verify repair.
- b. No; replace the hydrocarbon doser block; Refer to section "Removal of the Hydrocarbon Doser Block ". Verify repair.

6. Disconnect the Hydrocarbon doser fuel line pressure sensor (1). Is fault code SPN 4077/FMI 4 still present?



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- a. Yes; repair the circuit between pin 111 of the 120-pin MCM connector and pin 4 of the hydrocarbon doser fuel line pressure sensor electrical connector. Verify repair.
- b. No; replace the hydrocarbon doser block; Refer to section "Removal of the Hydrocarbon Doser Block ". Verify repair.