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Service Information Bulletin

SUBJECT	DATE
SPN 4334/ FMI 3 and 4 - (ACM)(EPA10)	May 2014

Additions, Revisions, or Updates

Publication Number / Title	Platform	Section Title	Change
DDC-SVC-MAN-0084	DD Platform	SPN 4334/ FMI 3 - EPA10	Checking for ACM software level has been removed; minor changes made to the procedure and wiring diagrams have been added to the procedure. The procedure for FMI 3 has been revised.
		SPN 4334/ FMI 4 - EPA10	



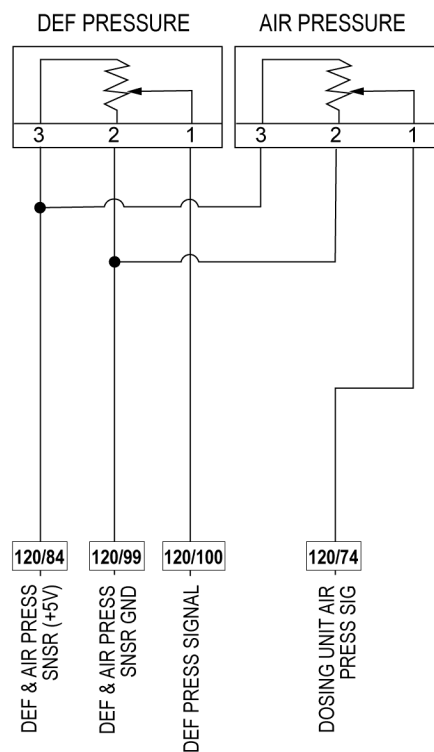
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2 SPN 4334/FMI 3 - EPA10

DEF pressure sensor circuit failed high

Table 1.

SPN 4334/FMI 3	
Description	This code sets when the Aftertreatment Control Module (ACM) detects a short to voltage or open on the Diesel Exhaust Fluid (DEF) Pressure Sensor Circuit
Monitored Parameter	Diesel Exhaust Fluid (DEF) Pressure Sensor
Typical Enabling Conditions	Always Enabled
Monitor Sequence	None
Execution Frequency	Always Enabled
Typical Duration	2 Seconds
Dash Lamps	MIL, CEL
Engine Reaction	Derate 25%
Verification	Engine Idle (1 minute)



d150275

1. Connect DiagnosticLink™. Go to step 2.
2. Turn the ignition ON (Key ON, Engine OFF). Go to step 3.
3. Check for multiple codes. Are codes SPN 4335/FMI 3 or SPN 3510/FMI 3 also present?
 - a. Yes; Go to step 4.
 - b. No; Go to step 9.
4. Turn the ignition OFF. Go to step 5.
5. Disconnect the DEF air pressure sensor electrical connector. Go to step 6.
6. Turn the ignition ON (Key ON, Engine OFF). Go to step 7.
7. Measure the voltage between pin 3 of the DEF pressure sensor connector, harness side and ground. Is the voltage greater than 5 volts?

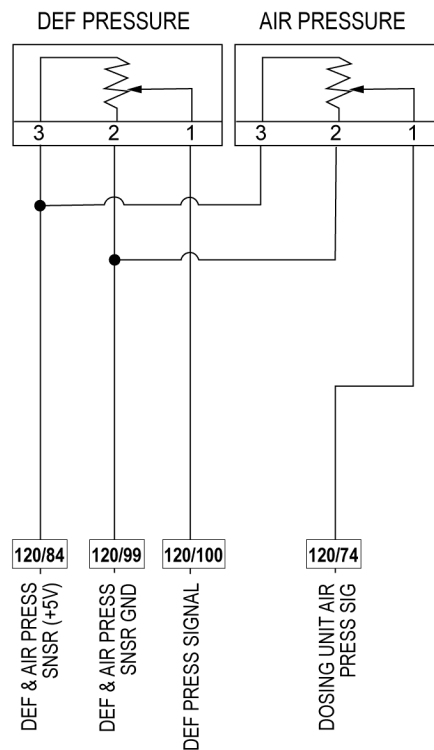
- a. Yes; repair the short to power on pin 84 of the 120-pin ACM connector. Verify repair.
 - b. No; Go to step 8.
8. Measure the voltage between pin 3 of the DEF pressure sensor connector, harness side and ground. Is the voltage between 4.5 and 5 volts?
 - a. Yes; repair the open circuit between pin 2 of the DEF pressure sensor and pin 99 of the 120-pin ACM connector.
 - b. No; repair the open circuit between pin 3 of the DEF pressure sensor and pin 84 of the 120-pin ACM connector. Verify repair.
9. Turn the ignition OFF. Go to step 10.
10. Disconnect the DEF pressure sensor. Measure the voltage between pin 3 of the DEF pressure sensor connector, harness side and ground. Is the voltage between 4.5 and 5 volts?
 - a. Yes; Go to step 11.
 - b. No; repair the open between pin 3 of the DEF pressure sensor connector and the circuit splice. Verify repair.
11. Measure the voltage between pin 2 of the DEF pressure sensor connector, harness side and pin 3 of the DEF pressure sensor connector, harness side. Is the voltage between 4.5 and 5.0 volts?
 - a. Yes; replace the DEF pressure sensor. Refer to section "Removal of the Diesel Exhaust Fluid Pressure Sensor". Verify repair.
 - b. No; repair the open between pin 2 of the DEF pressure sensor connector and the circuit splice. Verify repair.

3 SPN 4334/FMI 4 - EPA10

DEF pressure sensor circuit failed low

Table 2.

SPN 4334/FMI 4	
Description	This code sets when the Aftertreatment Control Module (ACM) detects a short to ground on the Diesel Exhaust Fluid (DEF) Pressure Sensor Circuit
Monitored Parameter	Diesel Exhaust Fluid (DEF) Pressure Sensor
Typical Enabling Conditions	Always Enabled
Monitor Sequence	None
Execution Frequency	Always Enabled
Typical Duration	2 Seconds
Dash Lamps	MIL, CEL
Engine Reaction	Derate 25%
Verification	Engine Idle (1 minute)



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1. Connect DiagnosticLink™. Go to step 2.
2. Turn the ignition ON (Key ON, Engine OFF). Go to step 3.
3. Check for multiple codes. Are codes SPN 4335/FMI 4 or SPN 3510/FMI 4 also present?
 - a. Yes; repair the short to ground on pin 84 of the ACM. Verify repair.
 - b. No; Go to step 4.
4. Disconnect the DEF pressure sensor electrical connector. Go to step 5.
5. Disconnect the 120-pin ACM connector. Go to step 6.
6. Measure the resistance between pin 3 of the DEF harness side connector and ground. Is the resistance less than 1k ohms?

- a. Yes; repair the wire between pin 1 of the DEF pressure sensor and pin 100 of the ACM 120-pin connector. Verify repair.
- b. No; replace the DEF pressure sensor. Refer to section "Removal of the Diesel Exhaust Fluid Pressure Sensor". Verify repair.