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Service Information Bulletin

SUBJECT	DATE
SPN 100/FMI 4 - ALL YEARS	July 2013

Additions, Revisions, or Updates

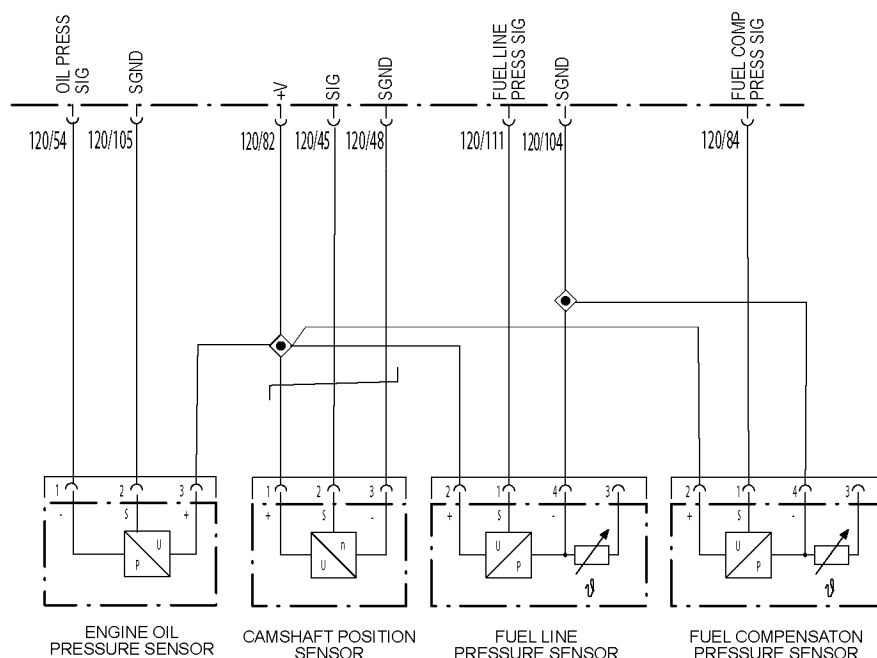
Publication Number / Title	Platform	Section Title	Change
DDC-SVC-MAN-0084	DD Platform	SPN 100/FMI 4 - ALL YEARS	Twelve new steps are added to the procedure.



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2 SPN 100/FMI 4 - ALL YEARS

This diagnostic is typically Engine Oil Pressure (EOP) Sensor Circuit Failed Low.



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Check as follows:

1. Connect DDDL/DDRS (latest version).
2. Turn the ignition ON (key ON, engine OFF).
3. Check for multiple codes:
 - a. If additional circuit failed low codes (FMI 4) are present for the Camshaft Position (CMP) sensor, fuel line pressure sensor and fuel compensation pressure, Go to step 14.
 - b. If only SPN 100/FMI 4 is present, Go to step 4.
4. Disconnect the EOP sensor harness connector.
5. Inspect the EOP connector and EOP harness connector for damage, bent, spread or unseated (pushed out) pins, corrosion or wire damage.
 - a. If signs of damage are present, repair as necessary.
 - b. If no signs of damage are present, Go to step 6.
6. Measure the voltage between pin 3 of the EOP sensor and battery ground.
 - a. If the voltage is between 4.5 and 5.5 volts, Go to step 7.
 - b. If the voltage is less than 4.5 volts, Go to step 14.
7. Measure the voltage between pins 2 and 3 of the EOP sensor harness connector.
 - a. If the voltage is less than 4.5 volts, repair the wire between pin 2 of the EOP sensor harness connector and pin 105 of the MCM 120-pin harness connector.
 - b. If the voltage is greater than 4.5 volts, Go to step 8.
8. Turn the ignition OFF.
9. Disconnect the MCM 120-pin harness connector.
10. Inspect the MCM 120-pin connector and the MCM 120-pin harness connector for damage, bent, spread or unseated (pushed out) pins, corrosion or wire damage.
 - a. If signs of damage are present, repair as necessary.
 - b. If no signs of damage are present, Go to step 11.
11. Measure the resistance between pin 1 of the EOP harness connector and pin 54 of the MCM 120-pin harness connector.

- a. If the resistance is greater than 5 ohms, repair the wire between pin 1 of the EOP harness connector and pin 54 of the MCM 120-pin harness connector.
 - b. If the resistance is less than 5 ohms, Go to step 12.
12. Measure the resistance between pins 1 and 2 of the EOP sensor harness connector.
 - a. If the resistance is less than 10K ohms, repair the short between pins 1 and 2 of the EOP sensor harness.
 - b. If the resistance is greater than 10K ohms, Go to step 13.
13. Measure the resistance between pins 2 and 3 of the EOP sensor harness connector.
 - a. If the resistance is less than 10K ohms, repair the short between pins 2 and 3 of the EOP sensor harness.
 - b. If the resistance is greater than 10K ohms, replace the EOP sensor.
14. Turn the ignition OFF.
15. Disconnect the MCM 120-pin harness connector.
16. Inspect the MCM 120-pin connector and the MCM 120-pin harness connector for damage, bent, spread or unseated (pushed out) pins, corrosion or wire damage.
 - a. If signs of damage are present, repair as necessary.
 - b. If no signs of damage are present, Go to step 17.
17. Measure the resistance between pin 3 of the EOP sensor harness connector and battery ground.
 - a. If the resistance is less than 10K ohms, repair the short to ground between pin 3 of the EOP sensor harness connector and pin 82 of the MCM 120-pin connector.
 - b. If the resistance is greater than 10K ohms, Go to step 18.
18. Measure the resistance between pin 3 of the EOP sensor harness connector and pin 82 of the MCM 120-pin harness connector.
 - a. If the resistance is greater than 5 ohms, repair the wire between pin 82 of the MCM 120-pin harness connector and pin 3 of the EOP sensor harness connector, pin 1 of the Camshaft Position (CMP) sensor harness connector and pin 2 of the fuel line pressure and fuel compensation pressure sensors.
 - b. If the resistance is less than 5 ohms, review the diagnostic procedure again. If problems still exist, please contact the Customer Support Center at (800-445-1980).