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Service Information Bulletin

SUBJECT	DATE
SPN 84/FMI 6 – EPA07/GHG14	June 2013

Additions, Revisions, or Updates

Publication Number / Title	Platform	Section Title	Change
DDC-SVC-MAN-0084	EPA07/ GHG14 DD Platform	SPN 84/FMI 6 – EPA07/ GHG14	Step 1 step reference has been changed from Step 3 to Step 2. Resistance values in Steps 8, 9, and 10 have been changed.



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This diagnostic is typically Vehicle Speed Sensor (VSS) Anti-Tamper Detection via Antilock Brake System (ABS) Vehicle Speed Comparison.

Check as follows:

1. Are there any battery (SPN 168/FMI any) or Controller Area Network (CAN) (SPN 625/FMI any) faults present?
 - a. Yes; repair those faults first.
 - b. No; Go to step 2.
2. Are there any Antilock Brake System (ABS) system faults also present?
 - a. Yes; repair those faults first.
 - b. No; Go to step 3.
3. Has the Common Powertrain Controller (CPC) been recently reprogrammed?
 - a. Yes; ensure the VSS parameters are configured correctly for the vehicle application.
 - b. No; Go to step 4.
4. Is the VSS hardwired or transmitted via J1939?
 - a. Hardwired; Go to step 5.
 - b. Transmitted via J1939; refer to Application and Installation manual for correct parameter configuration. If configuration is correct, refer to Original Equipment Manufacturer (OEM) material for J1939 VSS troubleshooting.
5. Disconnect the VSS harness connector; refer to OEM literature for location.
6. Inspect the VSS harness connector for bent, spread, corroded or unseated (pushed out) pins and inspect the wiring for signs of damage.
 - a. If pin damage is found, repair as necessary.
 - b. If no pin damage is found, Go to step 7.
7. Disconnect the CPC connector #3.
8. Measure the resistance between CPC connector #3 pins 13 and 14.
 - a. If resistance is less than 10K ohms, repair the short between CPC connector #3 pins 13 and 14.
 - b. If the resistance is greater than 10K ohms, Go to step 9.
9. Measure the resistance between CPC connector #3 pin 13 and the VSS+ harness connection.
 - a. If resistance is greater than 5 ohms, repair wire between CPC connector #3 pin 13 and the VSS+ harness connection.
 - b. If the resistance is less than 5 ohms, Go to step 10.
10. Measure the resistance between CPC connector #3 pin 14 and the VSS- harness connection.
 - a. If resistance is greater than 5 ohms, repair wire between CPC connector #3 pin 14 and the VSS- harness connection.
 - b. If the resistance is less than 5 ohms, refer to OEM literature for VSS sensor diagnostics.