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Service Information Bulletin

SUBJECT	DATE
SPN 4374 (ACM) (GHG14)	May 2014

Additions, Revisions, or Updates

Publication Number / Title	Platform	Section Title	Change
DDC-SVC-MAN-0084	GHG14 DD Platform	SPN 4374/FMI 1 - GHG14	Step 4 added. Three steps removed.



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2 SPN 4374/FMI 1 – GHG14

Over Pressurized Diesel Exhaust Fluid System

Table 1.

SPN 4374/FMI 1	
Description	Over Pressurized DEF System
Monitored Parameter	DEF Pump Speed vs. DEF Pressure
Typical Enabling Conditions	DEF Pump Enabled OR On-Off-Cycle Request
Execution Frequency	Continuous When Enabling Conditions Met
Typical Duration	2 Minutes
Dash Lamps	MIL, CEL
Engine Reaction	None
Verification	SCR ADS Self-check

NOTE: Retain a log file if Detroit™ customer assistance is required.

Check as follows:

1. Connect DiagnosticLink™.
2. Turn the ignition ON (key ON, engine OFF).
3. Check for multiple codes.
 - a. If other faults are active in addition to SPN 4334/FMI 3 or 4, or SPN 4374/FMI 3 or 4, troubleshoot the other faults first.
 - b. If only SPN 4374/FMI 1 is present, Go to step 4.
4. Verify the Aftertreatment Control Module (ACM) software level is 3.1.3.0 ZGS002 or higher.
5. Turn the ignition OFF.
6. Disconnect the DEF dosing unit electrical harness connector.
7. Inspect the DEF dosing unit electrical harness wiring and connector for signs of damage, bent, spread, corroded or unseated (pushed out) pins, moisture in the connector or wire damage near the connector.
 - a. If damage is found, repair as necessary. Perform Selective Catalytic Reduction Airless Dosing System (SCR ADS) Self-Check Routine to verify repairs.
 - b. If no pin damage is found, Go to step 8.
8. Disconnect the DEF return line from the DEF dosing unit. Refer to section "Removal of the GHG14 Diesel Exhaust Fluid Lines". Connect a temporary drain hose from the DEF dosing unit return fitting into a DEF-safe container.
9. Clear fault codes.
10. Perform SCR ADS Self-Check Routine. Did the SCR ADS test pass with flow from dosing unit return line into the DEF-safe container?
 - a. Yes; connect the DEF return line to the DEF dosing unit . Go to step 11.
 - b. No; replace DEF dosing unit. Refer to section "Removal of the Diesel Exhaust Fluid Metering Unit". Rerun SCR ADS Self-Check Routine to validate repairs.
11. Disconnect the DEF return line from DEF tank. Refer to section "Removal of the GHG14 Diesel Exhaust Fluid Lines". Place DEF return line into a DEF-safe container.
12. Perform SCR ADS Self-Check Routine. Did the SCR ADS test pass with DEF flow into the DEF-safe container?
 - a. Yes; Go to step 13.
 - b. No; replace DEF return line. Rerun SCR ADS Self-Check Routine to validate repairs.
13. Remove DEF tank header and inspect for damage. Is any damage found? Refer to section "Removal of the GHG14 13 and 23 Gallon Diesel Exhaust Fluid Tank Header Unit".
 - a. Yes; replace DEF tank header. Drain and clean the DEF tank. Refer to the OEM DEF tank flushing and cleaning procedure. Go to step 16.
 - b. No; Go to step 14.

14. Perform SCR ADS Self-Check Routine. Did the SCR ADS test pass?
 - a. Yes; clear fault codes and release vehicle.
 - b. No; Go to step 15.
15. Replace DEF pump. Refer to section "Removal of the GHG14 Diesel Exhaust Fluid Pump Module".
16. Reconnect all DEF lines and connectors. Perform SCR ADS Self-Check Routine to prime the system. Did SCR ADS Self-Check Routine complete successfully?
 - a. Yes; release vehicle.
 - b. No; Go to step 17.
17. Install a test ACM and retest. If fault code does not return, replace ACM. Verify repairs.