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Service Information Bulletin

SUBJECT	DATE
SPN 5435/FMI 7 – GHG14	January 2013

Additions, Revisions, or Updates

Publication Number / Title	Platform	Section Title	Change
DDC-SVC-MAN-0084	GHG14 DD Platform	Subject: SPN 5435/FMI 7 – GHG14	Procedure Revised



13400 Outer Drive, West, Detroit, Michigan 48239-4001
 Telephone: 313-592-5000
www.demanddetroit.com

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This diagnostic is typically a Non Diesel Exhaust Fluid (DEF) Flow Situation.

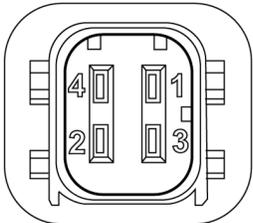
Table 1.

SPN 5435 FMI 7	
Description	DEF pump speed low
Monitored Parameter	DEF pump speed
Typical Enabling Conditions	DEF pump enabled and cannot operate above a DEF pump speed threshold
Monitor Sequence	DEF pump is enabled
Execution Frequency	Service tool & infrequent in use checks during on DEF dosing conditions
Typical Duration	2 Seconds
Dash Lamps	MIL, CEL
Engine Reaction	Derate 25%
Verification	SCR ADS Self-check

NOTE: Retain a log file if Detroit™ Customer Assistance is required.

1. Connect DDDL/DDRS 7.08 SP2 or newer.
 - a. If SPN 4374/FMI 3, 4 or 5 are active, repair those faults first.
 - b. If not, Go to step 2.
2. Turn the ignition OFF (key OFF, engine OFF).
3. Inspect the DEF pump harness wiring and connector for damage, wire chafing, bent, spread or loose/corroded pins.

Table 2.

4- Pin	Circuit	ACM2.1-Pin	Connector
Pin 1	Pump RPM Feedback	95	
Pin 2	Pump Supply	1	
Pin 3	Pump RPM Control	20	
Pin 4	Pump GND	31	

- a. If damage is found, repair as necessary. Go to step 5.
 - b. If no damage is found, Go to step 4.
4. Disconnect the DEF pressure line at the DEF pump. Refer to section "Removal of the GHG14 Diesel Exhaust Fluid Lines" Run a hose from the DEF pump outlet into a DEF-safe container.
5. Turn the ignition ON (key ON, engine OFF).
6. Run Selective Catalytic Reduction Airless Dosing System – (SCR ADS) Self-Check routine. Monitor DEF flow into the container.
 - a. If DEF flow is noted or DEF pump rpm signal is above 600, reconnect pressure line to DEF pump. Verify repairs by running DEF ADS Self-Check. If ADS Self-Check is successful, clear codes and release vehicle.
 - b. If no DEF flow or rpm signal below 600 is noted, replace DEF pump. Refer to section "Removal of the GHG14 Diesel Exhaust Fluid Pump Module" Verify repairs by running DEF ADS Self-Check.