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Service Information Bulletin

SUBJECT	DATE
SPN 3597/FMI 4 - EPA10	January 2013

Additions, Revisions, or Updates

Publication Number / Title	Platform	Section Title	Change
DDC-SVC-MAN-0084	EPA10 DD Platform	SPN 3597/FMI 4 - EPA10	This diagnostic is for EPA10 only.



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2 SPN 3597/FMI 4 - EPA10

This diagnostic is typically Proportional Valve Bank 1 Circuit Failed Low.

NOTE: High side digital output 1 is the voltage supply to the following components: Diesel Exhaust Fluid (DEF) Pump, Metering Unit, Diffuser Heater and the DEF Injection Valve.

Table 1.

SPN 3597/FMI 4	
Description	Proportional Valve Bank 1 Circuit Failed Low
Monitored Parameter	MCM Internal Power Supply
Typical Enabling Conditions	Always Enabled
Monitor Sequence	None
Execution Frequency	Always Enabled
Typical Duration	2 Seconds
Dash Lamps	MIL, CEL
Engine Reaction	
Verification	Engine Idle (1 minute)

1. Disconnect the Diesel Exhaust Fluid (DEF) pump, Pressure Limiting Unit (PLU), diffuser heater and the DEF injection valve (disregard the additional faults set with components disconnected).
2. Inspect the above component harness connectors for bent, spread or corroded pins.
 - a. If pin damage is found, repair as necessary.
 - b. If no pin damage is found Go to step 3.
3. Turn the ignition ON and clear fault codes. Does the fault become active?
 - a. Yes; Go to step 4.
 - b. No; Go to step 7.
4. Turn the ignition OFF (key OFF, engine OFF).
5. Disconnect the Aftertreatment Control Module (ACM2) 120-pin connector.
6. Turn the ignition ON and clear fault codes. Does the fault become active?
 - a. Yes; replace the ACM2.
 - b. No; repair harness short to ground between pins 1, 3 or 5 of the ACM2 and pin 2 of the corresponding components.
7. Reconnect the above components one at a time, clearing the fault code after each connection. When fault becomes active, replace the corresponding component.