

1 01 19-17



Service Information Bulletin

SUBJECT	DATE
SPN 3217 (MCM) (GHG17) - MDEG O2 sensor closed loop control cannot be achieved	January 2017

Additions, Revisions, or Updates

Publication Number / Title	Platform	Section Title	Change
DDC-SVC-MAN-0193	DD Platform - Medium Duty	SPN 3217/FMI 10 - GHG17	This is a new diagnostic procedure.

DiagnosticLink users: Please update the troubleshooting guides in DiagnosticLink with this newest version. To update the tool troubleshooting guide, open DiagnosticLink and from the Help – Troubleshooting Guides menu, select the appropriate troubleshooting manual, then click Update.



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

2 SPN 3217/FMI 10 - GHG17

Closed Loop Control of EGR Cannot Be Achieved

Table 1.

SPN 3217/FMI 10	
Description	This Fault Code Sets When the MCM Cannot Achieve Closed Loop Control of the EGR System
Monitored Parameter	Intake Manifold Temperature Sensor, Ambient Air Pressure Sensor, Intake Manifold Pressure Sensor, EGR Valve, Coolant Temperature Sensor, O2 Sensor.
Typical Enabling Conditions	Engine Idle for 10 Minutes. Vehicle Speed Greater Than 90 kph (55 mph) for 10 Minutes. Rpm Range Between 115 and 2500 for at least 40 Seconds
Monitor Sequence	None
Execution Frequency	Always When Enabling Conditions Are Met
Typical Duration	Five Seconds
Dash Lamps	MIL, CEL
Engine Reaction	25% derate
Verification	Run The Engine at Idle for 10 Minutes. Road Test the Vehicle at 90 kph (55 mph) for 10 Minutes. While Road Testing, the Engine rpm Should be Between 1150-2500 rpm For at least 40 Seconds.



WARNING: ENGINE EXHAUST

To avoid injury from inhaling engine exhaust, always operate the engine in a well-ventilated area. Engine exhaust is toxic.

Check as follows:

1. Connect DiagnosticLink[®].
2. Turn the ignition ON (key ON, engine OFF).
3. Check for other fault codes. Are any of the fault codes below present?
 - SPN 1636/FMI 3, 4, 10, 14
 - SPN 102/FMI 3, 4, 16, 18
 - SPN 108/FMI 3, 4
 - SPN 3563/FMI 10, 21
 - SPN 27/FMI 0, 1, 3, 4, 10, 12
 - SPN 110/FMI 3, 4, 10, 16, 18
 - SPN 171/FMI 3, 4, 20
 - SPN 3056/FMI 2, 4, 5, 14
 - SPN 520243/FMI 5, 9, 11
 - SPN 520244/FMI 5
 - SPN 520245/FMI 5
 - SPN 521098/FMI 11
 - SPN 521103/FMI 31
 - SPN 3217/FMI 3, 4
 - SPN 3223/FMI 3, 4
 - a. Yes; diagnose the other fault codes first.
 - b. No; replace the O2 sensor. Refer to section "Removal of the Oxygen Sensor". Verify repair.