1 03 25-17

Service Information Bulletin

SUBJECT	DATE
SPN 3563 (MCM) (GHG17)	March 2017

Additions, Revisions, or Updates

Publication Number / Title	Platform	Section Title	Change
DDC-SVC-MAN-0191	GHG17 DD Heavy Duty	SPN 3563/FMI 10 - GHG17	The diagnostic procedure has been updated.

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.

DEMAND PERFORMANCE™

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

2 SPN 3563/FMI 10 - GHG17

Barometric Pressure and Intake Manifold Pressure Rationality Error

Table 1.

SPN 3563/FMI 10	
Description	This Fault Code Sets When the Difference Between Barometric Pressure and Intake Manifold Pressure Sensors is Larger Than a Calibrated Threshold
Monitored Parameter	Barometric Pressure and Intake Manifold Pressure
Typical Enabling Conditions	Ignition OFF for a Minimum of 30 Minutes, Then Turn the Ignition to the ON Position. Engine Speed less than 250 rpm
Monitor Sequence	None
Execution Frequency	Continuous When Enabling Conditions Met
Typical Duration	One Second
Dash Lamps	MIL, CEL
Engine Reaction	25% Derate
Verification	Ignition OFF for 30 minutes, then Turn Ignition ON with the Engine Not Running

Check as follows:

1. Connect DiagnosticLink ®.
2. Turn the ignition ON (key ON, engine OFF).
3. Check for multiple fault codes. Are fault codes also present?
    a. Yes; diagnose the other fault codes.
    b. No; Go to step 4.
4. Compare the barometric pressure reading in the Motor Control Module (MCM) to the local barometric pressure reading. Is the barometric pressure sensor reading in the MCM within 6.9 kPa (1 psi) of the local barometric pressure reading?
    a. Yes; Go to step 5.
    b. No; replace the MCM. Refer to section "Removal of the Motor Control Module". Verify repairs.
5. Turn the ignition OFF.
6. Disconnect and inspect the intake manifold pressure sensor electrical connector harness side. Is there any corrosion present?
    a. Yes; replace the intake manifold pressure sensor and the electrical connector on the harness. Refer to section "Removal of the Intake Pressure/Temperature Sensor". Verify repairs.
    b. No; Go to step 7.
7. Are any of the pins or the connector damaged?
    a. Yes; replace the intake manifold pressure sensor and the electrical connector on the harness. Refer to section "Removal of the Intake Pressure/Temperature Sensor". Verify repairs.
    b. No; replace the intake manifold pressure sensor. Refer to section "Removal of the Intake Pressure/Temperature Sensor". Verify repairs.