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## Service Information Bulletin

SUBJECT	DATE
SPN 3512 (ACM) (GHG17)	October 2016

### Additions, Revisions, or Updates

Publication Number / Title	Platform	Section Title	Change
DDC-SVC-MAN-0191	GHG17 DD Platform	SPN 3512/FMI 3 - GHG17	New procedures.
		SPN 3512/FMI 4 - GHG17	

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.



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## 2 SPN 3512/FMI 3 - GHG17

3V Sensor Supply Bank 2 Circuit Failed High

**Table 1.**

SPN 3512/FMI 3	
Description	3V Sensor Supply Bank 2 Circuit Failed High
Monitored Parameter	ACM 3V Internal Power Supply
Typical Enabling Conditions	Always Enabled
Monitor Sequence	None
Execution Frequency	Always Enabled
Typical Duration	Two Seconds
Dash Lamps	MIL, CEL
Engine Reaction	None
Verification	Engine Idle (One Minute)



### WARNING: PERSONAL INJURY

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and other reproductive harm.

- Always start and operate an engine in a well ventilated area.
- If operating an engine in an enclosed area, vent the exhaust to the outside.
- Do not modify or tamper with the exhaust system or emission control system.



### WARNING: PERSONAL INJURY

To avoid injury before starting and running the engine, ensure the vehicle is parked on a level surface, parking brake is set, and the wheels are blocked.



### 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:

This fault indicates that the Aftertreatment Control Module (ACM) detects a short to power (voltage greater than 3.2V) on any of the ACM pins in the table below.

**Table 2.**

<b>ACM Pins for Short to Power Check</b>	
<b>Component</b>	<b>ACM Pin</b>
DEF Tank Temperature Signal	103
DEF Tank Level Signal	109
Not Used By OEM	76
Not Used By OEM	78
Not Used By OEM	63
Not Used By OEM	83
Not Used By OEM	85

Inspect the harness and repair as necessary.

### 3 SPN 3512/FMI 4 - GHG17

3V Sensor Supply Bank 2 Circuit Failed Low

**Table 3.**

SPN 3512/FMI 4	
Description	3V Sensor Supply Bank 2 Circuit Failed Low
Monitored Parameter	ACM 3V Internal Power Supply
Typical Enabling Conditions	Always Enabled
Monitor Sequence	None
Execution Frequency	Always Enabled
Typical Duration	Two Seconds
Dash Lamps	MIL, CEL
Engine Reaction	None
Verification	Engine Idle (One Minute)



**WARNING: PERSONAL INJURY**

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and other reproductive harm.

- Always start and operate an engine in a well ventilated area.
- If operating an engine in an enclosed area, vent the exhaust to the outside.
- Do not modify or tamper with the exhaust system or emission control system.



**WARNING: PERSONAL INJURY**

To avoid injury before starting and running the engine, ensure the vehicle is parked on a level surface, parking brake is set, and the wheels are blocked.



**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:

This code indicates an Aftertreatment Control Module (ACM) internal failure. Replace the ACM. Refer to section "Removal of the 1-BOX™ Aftertreatment Control Module".