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Service Information Bulletin

SUBJECT	DATE
SPN 716 (CPC)(GHG17)	May 2016

Additions, Revisions, or Updates

Publication Number / Title	Platform	Section Title	Change
DDC-SVC-MAN-0193	GHG17 DD Medium Duty	SPN 716/FMI 3, 4, 5 - GHG17	New DD5 and DD8 diagnostic procedures
DDC-SVC-MAN-0191	GHG17 DD HD	SPN 716/FMI 3, 4, 5 - GHG17	Updated GHG17 HD diagnostic procedures

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 716/FMI 3 – GHG17

Digital Output 1 09 Circuit Failed High

Table 1.

SPN 716/FMI 3	
Description	CPC Output 1 09 Short to Voltage
Monitored Parameter	Tachometer
Typical Enabling Conditions	Always Enabled
Monitor Sequence	None
Execution Frequency	Always Enabled
Typical Duration	Two Seconds
Dash Lamps	CEL
Engine Reaction	None
Verification	Engine On



WARNING: ENGINE EXHAUST

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

This fault indicates a short to power on Pin 9 circuit of the Common Powertrain Controller #1 Connector.

Repair the short to power between pin 9 of the CPC connector #1 and the wired component. For wiring schematic information, refer to Original Equipment Manufacturer (OEM) literature.

3 SPN 716/FMI 4 – GHG17

Digital Output 1 09 Circuit Failed Low

Table 2.

SPN 716/FMI 4	
Description	CPC Output 1 09 Short to Ground
Monitored Parameter	Tachometer
Typical Enabling Conditions	Always Enabled
Monitor Sequence	None
Execution Frequency	Always Enabled
Typical Duration	Two Seconds
Dash Lamps	CEL
Engine Reaction	None
Verification	Engine On



WARNING: ENGINE EXHAUST

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

This fault indicates a short to ground on Pin 9 circuit of the Common Powertrain Controller #1 Connector.

Repair the short to ground between pin 9 of the CPC connector #1 and the wired component. For wiring schematic information, refer to Original Equipment Manufacturer (OEM) literature.

4 SPN 716/FMI 5 – GHG17

Digital Output 1 09 Circuit Open

Table 3.

SPN 716/FMI 5	
Description	CPC Output 1 09 Open Circuit
Monitored Parameter	Tachometer
Typical Enabling Conditions	Always Enabled
Monitor Sequence	None
Execution Frequency	Always Enabled
Typical Duration	Two Seconds
Dash Lamps	CEL
Engine Reaction	None
Verification	Engine On



WARNING: ENGINE EXHAUST

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

This fault indicates an open circuit on Pin 9 circuit of the Common Powertrain Controller #1 Connector.

Repair the open circuit between pin 9 of the CPC connector #1 and the wired component. For wiring schematic information, refer to Original Equipment Manufacturer (OEM) literature.

5 SPN 716/FMI 3 - GHG17

Digital Output 1 09 Circuit Failed High

Table 4.

SPN 716/FMI 3	
Description	CPC Output 1 09 Short to Voltage
Monitored Parameter	Tachometer
Typical Enabling Conditions	Always Enabled
Monitor Sequence	None
Execution Frequency	Always Enabled
Typical Duration	Two Seconds
Dash Lamps	CEL
Engine Reaction	None
Verification	Engine On



WARNING: ENGINE EXHAUST

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

This fault indicates a short to power on Pin 9 circuit of the Common Powertrain Controller #1 Connector.

Repair the short to power between pin 9 of the CPC connector #1 and the wired component. For wiring schematic information, refer to Original Equipment Manufacturer (OEM) literature.

6 SPN 716/FMI 4 - GHG17

Digital Output 1 09 Circuit Failed Low

Table 5.

SPN 716/FMI 4	
Description	CPC Output 1 09 Short to Ground
Monitored Parameter	Tachometer
Typical Enabling Conditions	Always Enabled
Monitor Sequence	None
Execution Frequency	Always Enabled
Typical Duration	Two Seconds
Dash Lamps	CEL
Engine Reaction	None
Verification	Engine On



WARNING: ENGINE EXHAUST

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

This fault indicates a short to ground on Pin 9 circuit of the Common Powertrain Controller #1 Connector.

Repair the short to ground between pin 9 of the CPC connector #1 and the wired component. For wiring schematic information, refer to Original Equipment Manufacturer (OEM) literature.

7 SPN 716/FMI 5 - GHG17

Digital Output 1 09 Circuit Open

Table 6.

SPN 716/FMI 5	
Description	CPC Output 1 09 Open Circuit
Monitored Parameter	Tachometer
Typical Enabling Conditions	Always Enabled
Monitor Sequence	None
Execution Frequency	Always Enabled
Typical Duration	Two Seconds
Dash Lamps	CEL
Engine Reaction	None
Verification	Engine On



WARNING: ENGINE EXHAUST

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

This fault indicates an open circuit on Pin 9 circuit of the Common Powertrain Controller #1 Connector.

Repair the open circuit between pin 9 of the CPC connector #1 and the wired component. For wiring schematic information, refer to Original Equipment Manufacturer (OEM) literature.