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Service Information Bulletin

SUBJECT	DATE
SPN 715 (CPC) (EPA07;EPA10) SPN 715 (CPC) (GHG14) SPN 715 (CPC) (GHG17)	June 2016

Additions, Revisions, or Updates

Publication Number / Title	Platform	Section Title	Change
DDC-SVC-MAN-0193	GHG17 DD Medium Duty	SPN 715/FMI 3 - GHG17	New DD5 and DD8 diagnostic procedures.
		SPN 715/FMI 4 - GHG17	
		SPN 715/FMI 5 - GHG17	
DDC-SVC-MAN-0191	GHG17 DD Platform	SPN 715/FMI 3 - GHG17	Updated GHG17 HD diagnostic procedures.
		SPN 715/FMI 4 - GHG17	
		SPN 715/FMI 5 - GHG17	
DDC-SVC-MAN-0084	GHG14 DD Platform	SPN 715/FMI 3 - EPA07/10	Updated EPA07; EPA10; GHG14 HD diagnostic procedures.
		SPN 715/FMI 4 - EPA07/10	
		SPN 715/FMI 5 - EPA07/10	
		SPN 715/FMI 3 - GHG14	
		SPN 715/FMI 4 - GHG14	
		SPN 715/FMI 5 - GHG14	

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 715/FMI 3 - GHG17

Digital Output 4 12 Circuit Failed High

Table 1.

SPN 715/FMI 3	
Description	CPC Output 4 12 Short to Voltage
Monitored Parameter	Vehicle Speed Output
Typical Enabling Conditions	Always Enabled
Monitor Sequence	None
Execution Frequency	Always Enabled
Typical Duration	Two Seconds
Dash Lamps	CEL
Engine Reaction	None
Verification	Key ON, Engine OFF

This fault indicates a short to power on the pin 12 circuit of the Common Powertrain Controller (CPC) #4 connector.

Repair the short to power between pin 12 of the CPC connector #4 and the wired component. For wiring schematic information, refer to Original Equipment Manufacturer (OEM) literature.

3 SPN 715/FMI 4 - GHG17

Digital Output 4 12 Circuit Failed Low

Table 2.

SPN 715/FMI 4	
Description	CPC Output 4 12 Short to Ground
Monitored Parameter	Vehicle Speed Output
Typical Enabling Conditions	Always Enabled
Monitor Sequence	None
Execution Frequency	Always Enabled
Typical Duration	Two Seconds
Dash Lamps	CEL
Engine Reaction	None
Verification	Key ON, Engine OFF

This fault indicates a short to ground on the pin 12 circuit of the Common Powertrain Controller (CPC) #4 connector.

Repair the short to ground between pin 12 of the CPC connector #4 and the wired component. For wiring schematic information, refer to Original Equipment Manufacturer (OEM) literature.

4 SPN 715/FMI 5 - GHG17

Digital Output 4 12 Circuit Open

Table 3.

SPN 715/FMI 5	
Description	CPC Output 4 12 Open Circuit
Monitored Parameter	Vehicle Speed Output
Typical Enabling Conditions	Always Enabled
Monitor Sequence	None
Execution Frequency	Always Enabled
Typical Duration	Two Seconds
Dash Lamps	CEL
Engine Reaction	None
Verification	Key ON, Engine OFF

This fault indicates an open circuit on the pin 12 circuit of the Common Powertrain Controller #4 connector.

Repair the open circuit between pin 12 of the CPC connector #4 and the wired component. For wiring schematic information, refer to Original Equipment Manufacturer (OEM) literature.

5 SPN 715/FMI 3 - GHG17

Digital Output 4 12 Circuit Failed High

Table 4.

SPN 715/FMI 3	
Description	CPC Output 4 12 Short to Voltage
Monitored Parameter	Vehicle Speed Output
Typical Enabling Conditions	Always Enabled
Monitor Sequence	None
Execution Frequency	Always Enabled
Typical Duration	Two Seconds
Dash Lamps	CEL
Engine Reaction	None
Verification	Key ON, Engine OFF

This fault indicates a short to power on the pin 12 circuit of the Common Powertrain Controller (CPC) #4 connector.

Repair the short to power between pin 12 of the CPC connector #4 and the wired component. For wiring schematic information, refer to Original Equipment Manufacturer (OEM) literature.

6 SPN 715/FMI 4 - GHG17

Digital Output 4 12 Circuit Failed Low

Table 5.

SPN 715/FMI 4	
Description	CPC Output 4 12 Short to Ground
Monitored Parameter	Vehicle Speed Output
Typical Enabling Conditions	Always Enabled
Monitor Sequence	None
Execution Frequency	Always Enabled
Typical Duration	Two Seconds
Dash Lamps	CEL
Engine Reaction	None
Verification	Key ON, Engine OFF

This fault indicates a short to ground on the pin 12 circuit of the Common Powertrain Controller (CPC) #4 connector.

Repair the short to ground between pin 12 of the CPC connector #4 and the wired component. For wiring schematic information, refer to Original Equipment Manufacturer (OEM) literature.

7 SPN 715/FMI 5 - GHG17

Digital Output 4 12 Circuit Open

Table 6.

SPN 715/FMI 5	
Description	CPC Output 4 12 Open Circuit
Monitored Parameter	Vehicle Speed Output
Typical Enabling Conditions	Always Enabled
Monitor Sequence	None
Execution Frequency	Always Enabled
Typical Duration	Two Seconds
Dash Lamps	CEL
Engine Reaction	None
Verification	Key ON, Engine OFF

This fault indicates an open circuit on the pin 12 circuit of the Common Powertrain Controller #4 connector.

Repair the open circuit between pin 12 of the CPC connector #4 and the wired component. For wiring schematic information, refer to Original Equipment Manufacturer (OEM) literature.

8 SPN 715/FMI 3 - EPA07 - EPA10

Digital Output 4 12 Circuit Failed High

Table 7.

SPN 715/FMI 3	
Description	CPC Output 4 12 Short to Voltage
Monitored Parameter	Vehicle Speed Output
Typical Enabling Conditions	Always Enabled
Monitor Sequence	None
Execution Frequency	Always Enabled
Typical Duration	Two Seconds
Dash Lamps	CEL
Engine Reaction	None
Verification	Key ON, Engine OFF

This fault indicates a short to power on the pin 12 circuit of the Common Powertrain Controller (CPC) #4 connector.

Repair the short to power between pin 12 of the CPC connector #4 and the wired component. For wiring schematic information, refer to Original Equipment Manufacturer (OEM) literature.

9 SPN 715/FMI 4 - EPA07 - EPA10

Digital Output 4 12 Circuit Failed Low

Table 8.

SPN 715/FMI 4	
Description	CPC Output 4 12 Short to Ground
Monitored Parameter	Vehicle Speed Output
Typical Enabling Conditions	Always Enabled
Monitor Sequence	None
Execution Frequency	Always Enabled
Typical Duration	Two Seconds
Dash Lamps	CEL
Engine Reaction	None
Verification	Key ON, Engine OFF

This fault indicates a short to ground on the pin 12 circuit of the Common Powertrain Controller #4 connector.

Repair the short to ground between pin 12 of the CPC connector #4 and the wired component. For wiring schematic information, refer to Original Equipment Manufacturer (OEM) literature.

10 SPN 715/FMI 5 - EPA07 - EPA10

Digital Output 4 12 Circuit Open

Table 9.

SPN 715/FMI 5	
Description	CPC Output 4 12 Open Circuit
Monitored Parameter	Vehicle Speed Output
Typical Enabling Conditions	Always Enabled
Monitor Sequence	None
Execution Frequency	Always Enabled
Typical Duration	Two Seconds
Dash Lamps	CEL
Engine Reaction	None
Verification	Key ON, Engine OFF

This fault indicates an open circuit on the pin 12 circuit of the Common Powertrain Controller #4 connector.

Repair the open circuit between pin 12 of the CPC connector #4 and the wired component. For wiring schematic information, refer to Original Equipment Manufacturer (OEM) literature.

11 SPN 715/FMI 3 - GHG14

Digital Output 4 12 Circuit Failed High

Table 10.

SPN 715/FMI 3	
Description	CPC Output 4 12 Short to Voltage
Monitored Parameter	Vehicle Speed Output
Typical Enabling Conditions	Always Enabled
Monitor Sequence	None
Execution Frequency	Always Enabled
Typical Duration	Two Seconds
Dash Lamps	CEL
Engine Reaction	None
Verification	Key ON, Engine OFF

This fault indicates a short to power on the pin 12 circuit of the Common Powertrain Controller (CPC) #4 connector.

Repair the short to power between pin 12 of the CPC connector #4 and the wired component. For wiring schematic information, refer to Original Equipment Manufacturer (OEM) literature.

12 SPN 715/FMI 4 - GHG14

Digital Output 4 12 Circuit Failed Low

Table 11.

SPN 715/FMI 4	
Description	CPC Output 4 12 Short to Ground
Monitored Parameter	Vehicle Speed Output
Typical Enabling Conditions	Always Enabled
Monitor Sequence	None
Execution Frequency	Always Enabled
Typical Duration	Two Seconds
Dash Lamps	CEL
Engine Reaction	None
Verification	Key ON, Engine OFF

This fault indicates a short to ground on the pin 12 circuit of the Common Powertrain Controller #4 connector.

Repair the short to ground between pin 12 of the CPC connector #4 and the wired component. For wiring schematic information, refer to Original Equipment Manufacturer (OEM) literature.

13 SPN 715/FMI 5 - GHG14

Digital Output 4 12 Circuit Open

Table 12.

SPN 715/FMI 5	
Description	CPC Output 4 12 Open Circuit
Monitored Parameter	Vehicle Speed Output
Typical Enabling Conditions	Always Enabled
Monitor Sequence	None
Execution Frequency	Always Enabled
Typical Duration	Two Seconds
Dash Lamps	CEL
Engine Reaction	None
Verification	Key ON, Engine OFF

This fault indicates an open circuit on the pin 12 circuit of the Common Powertrain Controller #4 connector.

Repair the open circuit between pin 12 of the CPC connector #4 and the wired component. For wiring schematic information, refer to Original Equipment Manufacturer (OEM) literature.