

1 05 16-16



Service Information Bulletin

SUBJECT	DATE
SPN 3511 (CPC)(GHG17)	May 2016

Additions, Revisions, or Updates

Publication Number / Title	Platform	Section Title	Change
DDC-SVC-MAN-0191	DD Platform HDEP	SPN 3511/FMI 3, 4 - GHG17	Updated GHG17 HDEP 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 3511/FMI 3 - GHG17

Remote Accelerator Pedal Supply Voltage Circuit Failed High

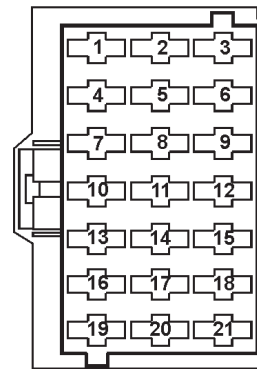
This code sets when the Common Powertrain Controller (CPC) detects the voltage on the sensor supply circuits is out of range.

Table 1.

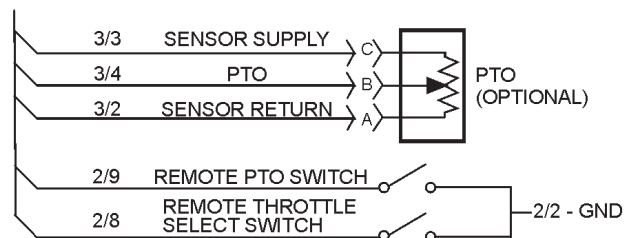
SPN 3511/FMI 3	
Description	Remote Accelerator Pedal Supply Circuit Short to Voltage or Open
Monitored Parameter	Remote Accelerator Pedal Voltage
Typical Enabling Conditions	Always On
Monitor Sequence	Key On
Execution Frequency	None
Typical Duration	None
Dash Lamps	CEL
Engine Reaction	Idle Only
Verification	Ignition Key Cycle ON

21-PIN CONNECTOR #3

3/1	OI THERMOSTAT
3/2	SENSOR RETURN
3/3	SENSOR SUPPLY
3/4	REMOTE PTO
3/5	NOT USED
3/6	NOT USED
3/7	TOP 2 LOCKOUT SOLENOID
3/8	TOP 2 SHIFT SOLENOID
3/9	WATER-IN-FUEL INDICATOR
3/10	DEF LOW LAMP
3/11	LOW COOLANT LEVEL SENSOR
3/12	FUEL FILTER RESTRICTION LAMP
3/13	VEHICLE SPEED (+)
3/14	VEHICLE SPEED (-)
3/15	AMBIENT AIR TEMPERATURE SENSOR
3/16	RED STOP LAMP
3/17	OI ALARM
3/18	NOT USED
3/19	ENGINE CAN (-)
3/20	ENGINE CAN SHIELD
3/21	ENGINE CAN (+)



**BROWN
FRONT**
LOOKING INTO PINS
ON THE HARNESS



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Check as follows:

1. Is the unit equipped with a remote accelerator pedal?
 - a. Yes; Go to step 2.
 - b. No; refer to the Application and Installation manual for proper Common Powertrain Controller (CPC) configuration.
2. Disconnect the remote throttle switch.

3. Turn the ignition ON (key ON, engine OFF).
4. Measure the voltage between remote throttle sensor supply (from pin 3 of the CPC connector #3) and ground. Refer to Original Equipment Manufacturer (OEM) literature for schematic information. Is voltage present?
 - a. Yes; Go to step 5.
 - b. No; repair the open circuit between pin 3 of the CPC connector #3 and the remote throttle switch.
5. Is the voltage measured in step 4 greater than 5.5 volts?
 - a. Yes; repair a short to battery power between pin 3 of the CPC connector #3 and the remote throttle switch.
 - b. No; Go to step 6.
6. Disconnect CPC connector #3.
7. Measure the resistance between remote throttle sensor supply and pin 3 of CPC connector #3. Refer to Original Equipment Manufacturer (OEM) literature for schematic information. Is the resistance less than five ohms?
 - a. Yes; replace the remote throttle switch.
 - b. No; repair the open circuit between pin 3 of the CPC connector #3 and the remote throttle switch.

3 SPN 3511/FMI 4 - GHG17

Remote Accelerator Pedal Supply Voltage Circuit Failed Low

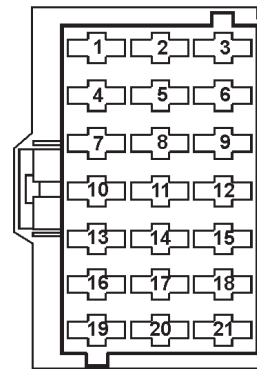
This code sets when the Common Powertrain Controller (CPC) detects the voltage on the sensor supply circuits is out of range.

Table 2.

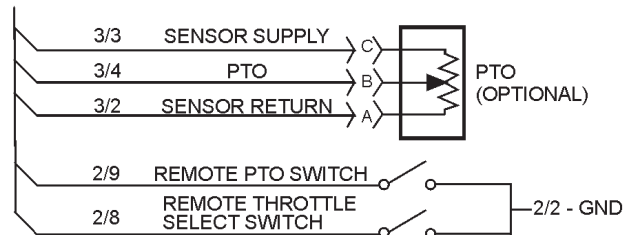
SPN 3511/FMI 4	
Description	Remote Accelerator Pedal Supply Circuit Short to Ground
Monitored Parameter	Remote Accelerator Pedal Voltage
Typical Enabling Conditions	Always On
Monitor Sequence	Key On
Execution Frequency	None
Typical Duration	None
Dash Lamps	CEL
Engine Reaction	Idle Only
Verification	Ignition Key Cycle ON

21-PIN CONNECTOR #3

3/1	OI THERMOSTAT
3/2	SENSOR RETURN
3/3	SENSOR SUPPLY
3/4	REMOTE PTO
3/5	NOT USED
3/6	NOT USED
3/7	TOP 2 LOCKOUT SOLENOID
3/8	TOP 2 SHIFT SOLENOID
3/9	WATER-IN-FUEL INDICATOR
3/10	DEF LOW LAMP
3/11	LOW COOLANT LEVEL SENSOR
3/12	FUEL FILTER RESTRICTION LAMP
3/13	VEHICLE SPEED (+)
3/14	VEHICLE SPEED (-)
3/15	AMBIENT AIR TEMPERATURE SENSOR
3/16	RED STOP LAMP
3/17	OI ALARM
3/18	NOT USED
3/19	ENGINE CAN (-)
3/20	ENGINE CAN SHIELD
3/21	ENGINE CAN (+)



**BROWN
FRONT**
LOOKING INTO PINS
ON THE HARNESS



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Check as follows:

1. Is the vehicle equipped with a remote accelerator pedal?
 - a. Yes; Go to step 2.
 - b. No; refer to the Application and Installation manual for proper Common Powertrain Controller (CPC) configuration.
2. Disconnect the remote throttle switch.

3. Turn the ignition ON (key ON, engine OFF).
4. Measure the resistance between remote throttle switch sensor supply and ground. Refer to Original Equipment Manufacturer (OEM) literature for schematic information. Is the resistance greater than 10k ohms?
 - a. Yes; replace the remote throttle switch.
 - b. No; repair the short to ground between pin 3 of the CPC connector #3 and the remote throttle switch.