Additions, Revisions, or Updates

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<th>Platform</th>
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<td>DDC-SVC-MAN-0084</td>
<td>EPA10/ GHG14 DD</td>
<td>SPN 411/FMI 3</td>
<td>Updated information.</td>
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2  SPN 411/FMI 3 - EPA10 - GHG14

This diagnostic is typically Exhaust Gas Recirculation (EGR) Delta P Sensor Circuit Failed High.

Table 1.

<table>
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<tr>
<th>SPN 411/FMI 3</th>
<th>Description</th>
<th>Monitored Parameter</th>
<th>Typical Enabling Conditions</th>
<th>Monitor Sequence</th>
<th>Execution Frequency</th>
<th>Typical Duration</th>
<th>Dash Lamps</th>
<th>Engine Reaction</th>
<th>Verification</th>
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<tr>
<td></td>
<td>EGR Delta Pressure Sensor Circuit High</td>
<td>EGR Delta Pressure Sensor</td>
<td>Always Enabled</td>
<td>None</td>
<td>Always Enabled</td>
<td>2 Seconds</td>
<td>MIL, CEL</td>
<td>Derate 25%</td>
<td>Engine Idle (1 minute)</td>
</tr>
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</table>

1. Turn the ignition ON (key ON, engine OFF).
2. Using DDDL/DDRS Voltages Tab, monitor EGR delta p voltage (pin 109).
3. Is the EGR delta p voltage between 0.55 and 0.83 volts?
   a. Yes, Go to step 7.
   b. No, Go to step 4.
4. Remove the EGR delta p sensor from the mounting pad; leave electrical harness connected. Refer to section "Removal of the Delta P Sensor".
5. Is the EGR delta p voltage between 0.55 and 0.83 volts?
   a. Yes, Go to step 6.
   b. No, Go to step 7.
6. Inspect the EGR venturi pipe's delta p pressure ports for blockage.
   a. If excessive build up or blockage is found, clean the venture pipe and reinstall the sensor. Refer to section "Cleaning of the Exhaust Gas Recirculation Venturi Pipe Delta P Sensor Ports". Refer to section "Installation of the Delta P Sensor".
   b. If no blockage is found, Go to step 7.
7. Disconnect the EGR delta p sensor harness connector.
8. Inspect the EGR delta p sensor harness connector for loose, bent, spread, rusted or corroded pins.
   a. If pin damage is found, repair as necessary.
   b. If no damage is found, Go to step 9.
10. Is the EGR delta p voltage 0 volts with sensor disconnected?
    a. Yes, Go to step 11.
    b. No, repair the shorted wires between pins 109 and 117 of the MCM2 120–pin connector.
11. Turn ignition OFF. Measure the resistance between pin 2 of the EGR delta p sensor connector and ground.
    a. If the resistance is greater than 3 ohms, repair the open ground circuit between pin 2 of the EGR delta p sensor connector and 103 of the MCM2 120–pin connector.
    b. If the resistance is less than 3 ohms, replace the EGR delta P sensor. Refer to section "Removal of the Delta P Sensor". Inspect the EGR venturi pipe's delta p pressure ports for excessive build up or blockage. Verify repairs.