

# DETROIT DIESEL



## DDEC® VI Troubleshooting

**NUMBER:** 08 DDEC VI-59    **S.M. REF.:** 95    **ENGINE:** EPA07 DD15    **DATE:** November 2008

**SUBJECT:** SPN 2630

**PUBLICATION:** DDC-SVC-MAN-0029

SPN 2630/FMI 20 and SPN 2630/FMI 21 have been added.

### 95.2.2 SPN 2630/FMI 20

This diagnostic condition is typically Charge Air Outlet Temperature Drift (low box).

1. Inspect the entire air intake system including the CAC for leaks, cracks, or plugging.
  - [a] If damage is found, repair as necessary.
  - [b] If no damage is found, go to next step.
2. Disconnect the Charge Air Outlet Temperature Sensor.
3. Inspect the Charge Air Outlet Temperature Sensor harness connector for bent, spread or corroded pins.
  - [a] If harness connector damage is found, repair as necessary.
  - [b] If no harness damage is found, go to next step.
4. Turn the ignition ON (key ON, engine OFF).
5. Measure the voltage between pins 1 and 2 on the harness side of the Charge Air Outlet Temperature.
  - [a] If the voltage is greater than 2.75 volts, replace the Charge Air Outlet Temperature Sensor.
  - [b] If the voltage is less than 2.75 volts, repair wires between the Charge Air Outlet Temperature Sensor harness connector and pins 52/119 of the MCM 120-pin connector.

### 95.2.4 SPN 2630/FMI 21

This diagnostic condition is typically Charge Air Outlet Temperature Drift (high box).

1. Inspect the entire air intake system including the CAC for leaks, cracks or plugging.
  - [a] If damage is found, repair as necessary.
  - [b] If no damage is found, go to next step.

2. Disconnect the Charge Air Outlet Temperature Sensor.
3. Inspect the Charge Air Outlet Temperature Sensor harness connector for bent, spread, or corroded pins.
  - [a] If harness connector damage is found, repair as necessary.
  - [b] If no harness damage is found, go to next step.
4. Turn the ignition ON (key ON, engine OFF).
5. Measure the voltage between pins 1 and 2 on the harness side of the Charge Air Outlet Temperature.
  - [a] If the voltage is greater than 2.75 volts, replace the Charge Air Outlet Temperature Sensor.
  - [b] If the voltage is less than 2.75 volts, repair wires between the Charge Air Outlet Temperature Sensor harness connector and pins 52/119 of the MCM 120-pin connector.

#### **ADDITIONAL SERVICE INFORMATION**

Additional service information is available in the EPA07 DD13/DD15 DDEC VI Troubleshooting Manual (DDC-SVC-MAN-0029).

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