

# DETROIT DIESEL



## DDEC® VI Troubleshooting

NUMBER: 07 DDEC VI-41 S.M. REF.: 109 ENGINE: EPA07 MBE 4000 DATE: December 2007

SUBJECT: SPN 3563

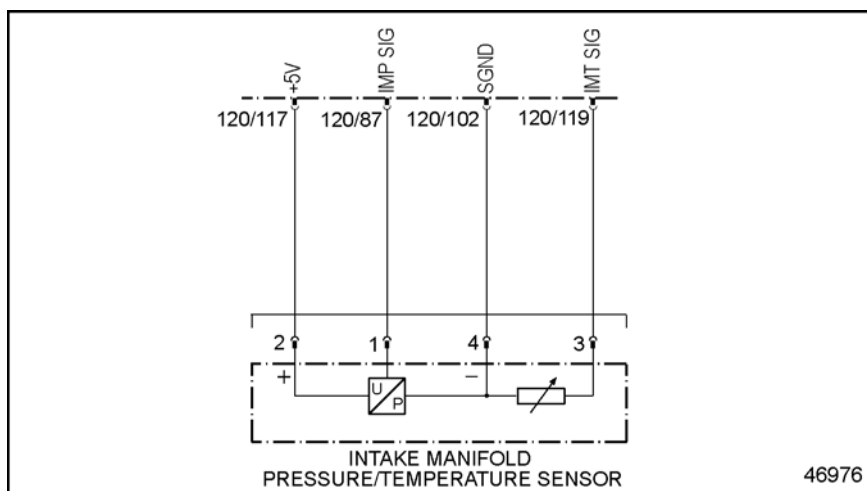
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SPN 3563/FMI 3 has been added.

### SPN 3563/FMI 3

This diagnosis is typically Intake Manifold Pressure Sensor Circuit Failed High

Check as follows:



**Figure 1 Intake Manifold Pressure/Temperature Sensor**

1. Disconnect the Intake Manifold Pressure Temp Sensor.
2. Turn ignition ON.
3. Measure the voltage between pin 1 of the Intake Manifold Pressure Temp Sensor and ground.
  - [a] If the voltage is greater than 5.5 volts, repair short to power between pin 87 of the MCM 120-pin connector and pin 1 of the Intake Manifold Pressure Temp Sensor.
  - [b] If the voltage is less than 0.5, go to step 4.
4. Turn the ignition OFF.
5. Disconnect the MCM 120-pin connector.

6. Measure the resistance between pin 87 of the MCM 120-pin connector and pin 1 of the Intake Manifold Pressure Temp Sensor.
  - [a] If the resistance is greater than 3  $\Omega$ , repair open between pin 87 of the MCM 120-pin connector and pin 1 of the Intake Manifold Pressure Temp Sensor.
  - [b] If the resistance is less than 3  $\Omega$ , replace the Intake Manifold Pressure Temp Sensor.

### **ADDITIONAL SERVICE INFORMATION**

Additional service information is available in one of the DDEC VI troubleshooting guides.

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