

DETROIT DIESEL



DDEC® VI Troubleshooting

NUMBER: 08 DDEC VI-27 S.M. REF.: 116 ENGINE: DD15 DATE: May 2008

SUBJECT: SPN 3598

PUBLICATION: DDC-SVC-MAN-0029

SPN 3598 with FMI 4 has been added.

SPN 3598

This SPN indicates a Proportional Valve Bank 2 fault.

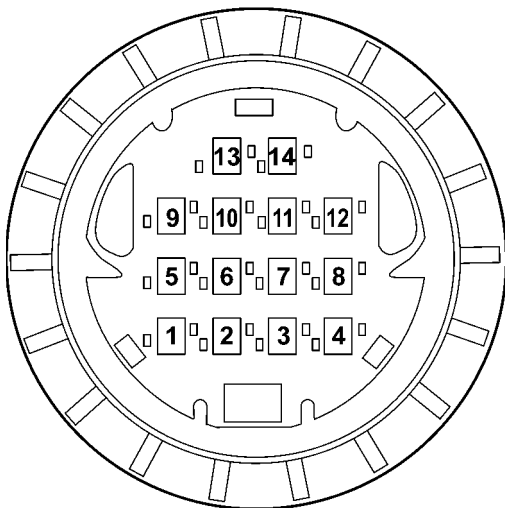
SPN 3598/FMI 4

This fault indicates the Proportional Valve Bank 2 circuit has failed low.

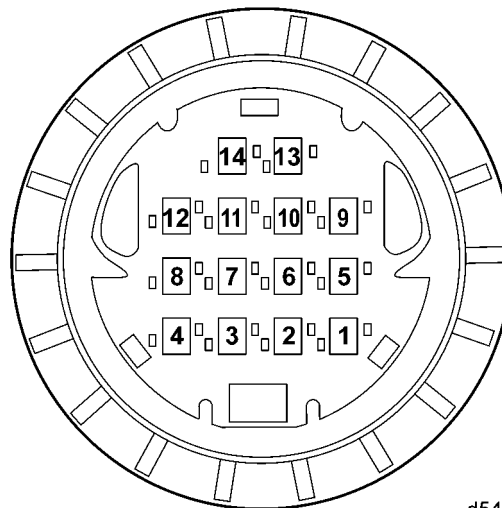
Check as follows:

1. Turn the ignition OFF.
2. Disconnect the Rear Valve Cover Injector Harness connector.

ENGINE HARNESS SIDE



VALVE COVER SIDE



d540043

3. Measure the resistance between pin 14 on the engine side of the Valve Cover Injector Harness connector and ground.
 - [a] If the resistance is less than 5 Ω , repair the short to ground between the Rear Valve Cover Injector Harness and the medium (rear) engine brake solenoid.

- [b] If the resistance is greater than 5 Ω , go to the next step.
- 4. Disconnect the EGR Valve connector.
- 5. Measure the resistance between pin 1 of the EGR Valve and ground.

NOTE:

This measurement is ON the EGR Valve.

- [a] If the resistance is less than 5 Ω , replace the EGR Valve. Verify repairs.
- [b] If the resistance is greater than 5 Ω , go to the next step.
- 6. Disconnect the MCM 120-pin connector.
- 7. Measure the resistance between pin 1 of the EGR Valve Harness connector and ground.
 - [a] If the resistance is less than 5 Ω , repair the short to ground between pin 62 of the MCM 120-pin connector and the EGR Valve/Rear Valve Cover Injector Harness connectors. Verify repairs.
 - [b] If the resistance is greater than 5 Ω , go to the next step.
- 8. Disconnect the Fuel Cutoff Valve connector.
- 9. Measure the resistance between pin 2 of the Fuel Cutoff Valve Harness connector and ground.
 - [a] If the resistance is less than 5 Ω , go to the next step.
 - [b] If the resistance is greater than 5 Ω , replace the Doser Block Assembly. Verify repairs.
- 10. Disconnect the Electronic Dosing Valve connector.
- 11. Measure the resistance between pin 2 of the Electronic Dosing Valve connector and ground.
 - [a] If the resistance is less than 5 Ω , repair the short to ground between pin 64 of the MCM 120-pin connector and the Electronic Dosing Valve/Fuel Cutoff Valve connector. Verify repairs.
 - [b] If the resistance is greater than 5 Ω , replace the Doser Block Assembly. Verify repairs.

ADDITIONAL SERVICE INFORMATION

Additional service information is available in the *DD15 Troubleshooting Guide* (DDC-SVC-MAN-0029).

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