

DETROIT DIESEL



MBE Troubleshooting Information

NUMBER: 07 MBETS-1 **S.M. REF.:** 20 **ENGINE:** MBE 900/4000 **DATE:** September 2007

SUBJECT: SID 54

PUBLICATION: 6SE422

The troubleshooting procedures for SID 54 have been added.

DESCRIPTION OF SID 54

SID 54 indicates that the grid heater is not operating properly.

054 03

This diagnosis is typically auxiliary #6 (PV6) open circuit.

Check as follows:

1. Verify the engine has a grid heater and the PV6 in the PLD-MR is properly set for this option.
 - [a] If the options are correctly set, go to step 2.
 - [b] If the options are incorrect, reconfigure the PLD-MR to match the engine options.
2. Disconnect the grid heater relay.
3. Turn the ignition ON.
4. Measure the voltage between pin 2 of the grid heater relay and ground.
 - [a] If the voltage is greater than 11.5 volts, go to step 5.
 - [b] If the voltage is less than 11.5 volts, this is a low voltage concern. Repair the circuit between pin 42 of the PLD-MR 55-pin connector and pin 2 of the grid heater relay.
5. Turn the ignition OFF.
6. Disconnect the PLD-MR.
7. Measure the resistance between pin 3 of the grid heater relay and pin 40 of the PLD-MR 55-pin connector.
 - [a] If the resistance is greater than 3 Ω , repair the circuit between pin 3 of the grid heater relay and pin 40 of the PLD-MR 55-pin connector.
 - [b] If the resistance is less than 3 Ω , replace the grid heater relay.

ADDITIONAL SERVICE INFORMATION

Additional service information is available in the Detroit Diesel *MBE 900/4000 Troubleshooting Manual*, 6SE422. The next revision to this manual will include the revised information.

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