

No.: 05 TS – 40Rev2
November 22, 2006

TO: Service Locations

FROM: Technical Service

SUBJECT: **MBE 4000 EGR Temperature Sensor**

ISSUE

Broken tips on the EGR temperature sensor

EGR Temperature Sensor failure resulting in one or more of the codes below:

- EGR System-Temperature Above Normal (SID 146, FMI 0)
- EGR System-Temperature Below Normal (SID 146, FMI 1)
- EGR System-Bad Component (SID 146, FMI 12)

The broken tip can cause downstream internal damage to the engine. See (Figure 1).

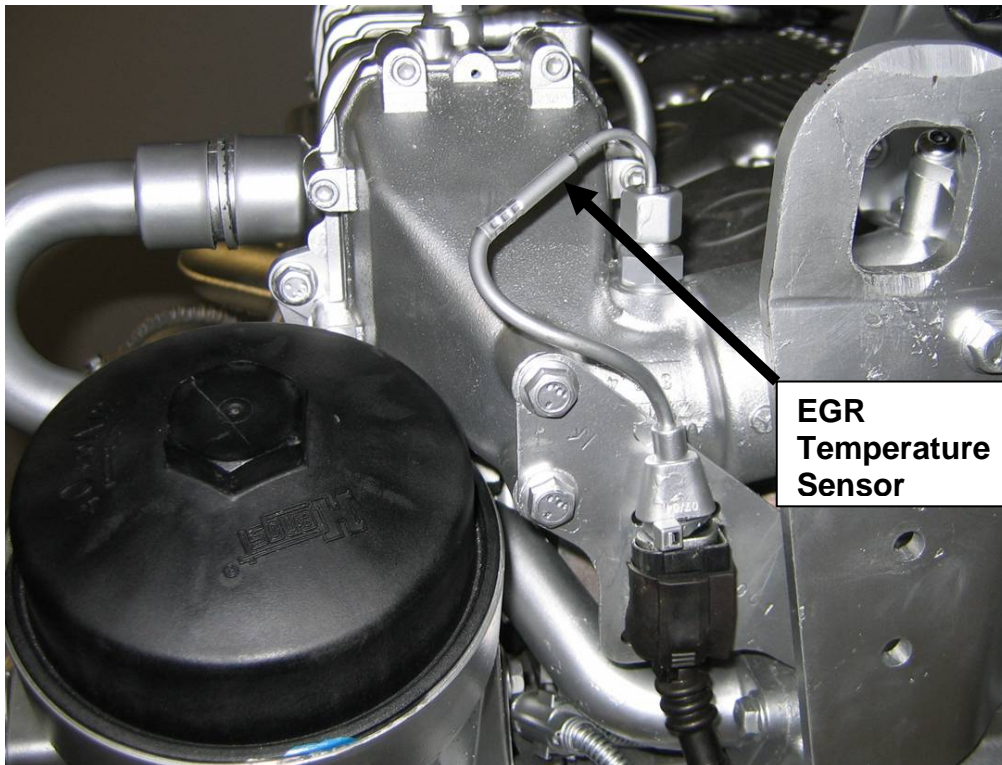


Figure 1 EGR Temperature Sensor

REQUIRED ACTION

If the EGR Temperature Sensor fails, do not install another sensor. Remove the sensor, install a plug in the pipe and in the electrical harness, and re-flash the PLD with a new fuel map to turn off the sensor.

REQUIRED MATERIAL

Part Number	Qty.	Description
0535456828	1	Plug – Harness
23524980	1	Cap - Pipe
3459977490 or 05101020	1	Tie Strap

REPAIR PROCEDURE

1. Confirm the sensor is at fault by following the troubleshooting steps for SID 146 in the *MBE 900/4000 EGR Technicians Guide (7SE940)*.
2. Unplug the EGR Temperature Sensor from the electrical harness and remove the sensor from the adaptor in the pipe.
3. Install cap on the adaptor. Torque cap to 32 Nm (24 lb-ft).
4. Install plug in the electrical harness and tie strap the harness securely in place to prevent it from moving and possibly be caught in other moving parts.
5. Re-flash the PLD with new fuel map to turn off the sensor. Select “Change PLD Rating” in the MBE Reprogramming System (refer to figure 2 below).

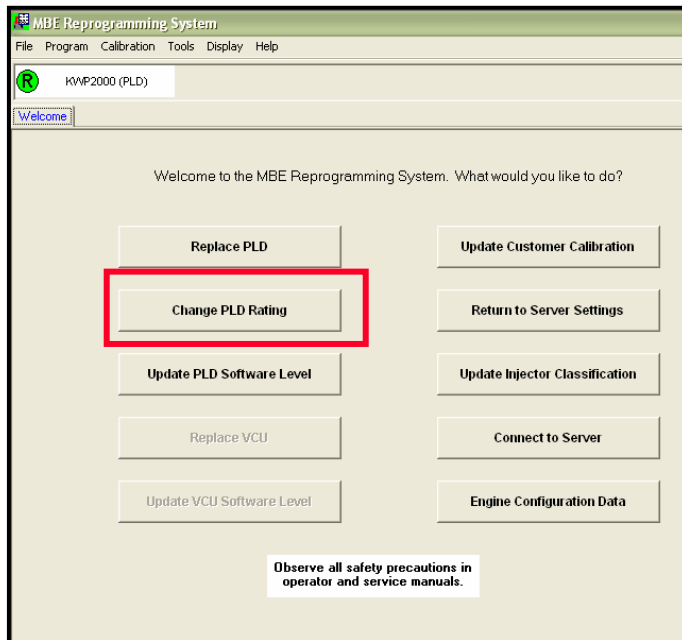


Figure 2 Re-Flashing PLD

6. View the EGR temperature on Detroit Diesel Diagnostic Link (DDDL). No temperature will be displayed if the sensor has been successfully turned off.
7. Start and run the engine and confirm the sensor has successfully been turned off and no codes are logged.

CONTACT INFORMATION

Please contact the DDC Customer Support Center at 313-592-5800 if you have any questions.