



No.: 04 TS – 57 (Rev.)
November 29, 2004

TO: All Distributors, Dealers, and their Branches – U.S. & Canada
ATTN.: General Manager, Service Manager
FROM: Technical Service
SUBJECT: **MBE 900 Model Year 2004 EGR Overheat Condition**

Technical Service has recorded a field concern at several customer locations regarding the MBE 900 model year 2004 EGR units. The reported Code 110 00 (Engine Coolant Temperature High) will cause the engine to de-rate during normal engine operation.

Thermostat failures were found as a result of investigating the high engine coolant temperature. The primary cause for the failures has been attributed to the lower thermostat housing being manufactured to the non-EGR specification with a 15 mm restrictor hole instead of the 30 mm restrictor hole required for EGR engines. See Figure 1.

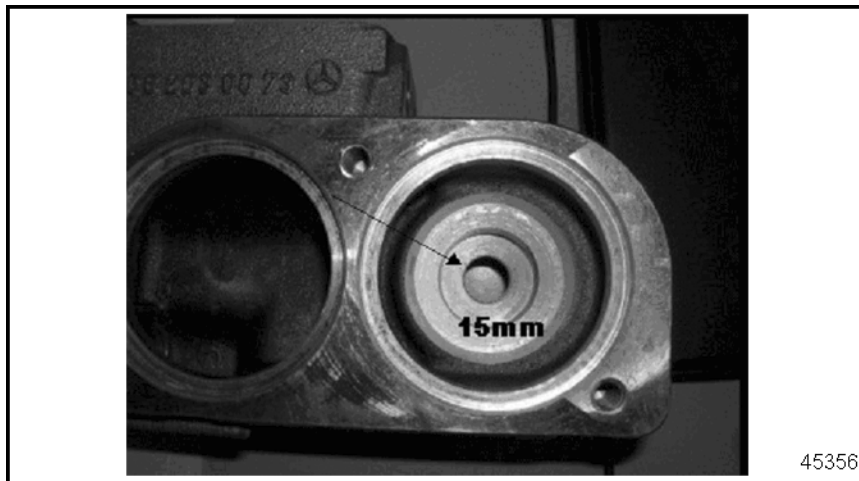


Figure 1 Restrictor Hole of Lower Thermostat Housing

The 2004 model year EGR units incorporate a high-output water pump that requires the lower thermostat housing to have a 30 mm bore. The increased dimension from 15 mm to 30 mm allows the engine to maintain a constant coolant temperature and reduces stress to the associated cooling system components.

The corrective action plan will be to replace the lower thermostat housing.

Distributors and Dealers should submit a Warranty Claim Type 1. Effected units can be any MBE 900 2004 model year EGR engine installed in a vehicle between January 1, 2004 through October 31, 2004.

The parts required to perform the task are listed in Table 1.

PART NUMBER	QUANTITY	DESCRIPTION
005 203 5975	2	Thermostat
020 997 1148	2	O-Ring
R906 203 0073	1	Lower Thermostat Housing
906 203 0180	1	Gasket – Housing to Cylinder Block
027 997 6048	1	O-Ring - EGR Coolant Return Tube (Optional)
917 003 022 003	1	Gasket - EGR Coolant Supply Tube (Optional)

Table 1 Parts requirements

The incorrect lower thermostat housing must be returned to a Detroit Diesel Remanufacturing facility per the usual core return process. Strip the housing of any unused parts and pack carefully for shipment to protect the machined surfaces. Please ship the thermostat housings in a timely manner to ensure an adequate supply of the remanufactured parts.

Replacement procedures can be found in *MBE 900 Service Manual* (6SE414).

NOTE: The Rocker cover must be removed in order to properly remove the lower thermostat housing. Failure to remove the rocker cover may result in damage to the lower thermostat housing.

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