



No.: 07 TS-35  
August 7, 2007

TO: Service Locations

FROM: Technical Support Development

SUBJECT: **MBE 4000 Water Pumps**

## ISSUE

- Effective with engine s/n 0460817586 built on May 19, 2005, the MBE 4000 water pump and cylinder block went from a nine-hole mounting design to an 11-hole design.
- The nine-hole water pump was kept as a service part until March, 2007, when it was superseded to the 11-hole pump.
- This is causing confusion at repair locations regarding the use of the new 11-hole water pump on blocks with only nine holes, including reliabilt® long blocks (which are not supplied with water pumps).
- reliabilt® warranty long blocks may be supplied with either 9 or 11 bolt pattern configurations regardless of the unit serial number being replaced.

## REQUIRED ACTION

Both water pumps will work on both cylinder blocks.

NOTE: When installing the 11-hole pump on a nine-hole block for the first time, the lifter bracket **MUST** be changed along with four bolts for the lifter bracket.

## REQUIRED MATERIAL

Table 1 provides a list of the current service part numbers.

Part Number	Description	Quantity /Engine	Comments
R4602000201	Nine-Hole Water Pump	NA	No longer in use. Superseded to 11-hole water pump
RA4602000701	11-Hole Water Pump	1	Supersedes nine-hole water pump
RA4602001301	11-Hole Water Pump Kit	1	Supersedes nine-hole water pump. Includes pump, gaskets, and o-rings.
A4602230541	Lifting Bracket	1	Must use when installing an 11-hole water pump on a nine-hole block for the first time
N910105012010	M12 Bolt	4	Must use when installing an 11-hole water pump on a nine-hole block for the first time

**Table 1 – MBE 4000 Water Pump**

**REPAIR PROCEDURE**

Refer to the *MBE 4000 Service Manual (6SE412)* for repair information.

**CONTACT INFORMATION**

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