



No.: 04 TS - 49
September 23rd, 2004

TO: All Distributors/Dealers and Their Branches
US, Canada and Mexico

ATTN.: Service Managers

FROM: Evandro Silva

SUBJECT: **MBE4000 (EGR) – Breather Housing – New Seal Package**

We are releasing a new seal package for the breather housing applied to the MBE4000 EGR engine. This package contains:

- Breather housing gasket – P/N: 4760150080
- Seal ring – P/N: 4760170060
- Washer – P/N: 200433013000

These parts are available through Detroit Diesel and Freightliner PDCs. There is no kit number for this package. All three components must be ordered using their respective part numbers.

In order to assist distributors/dealers, or technicians in servicing the engine, the installation procedure for this new seal package can be found attached to this document.

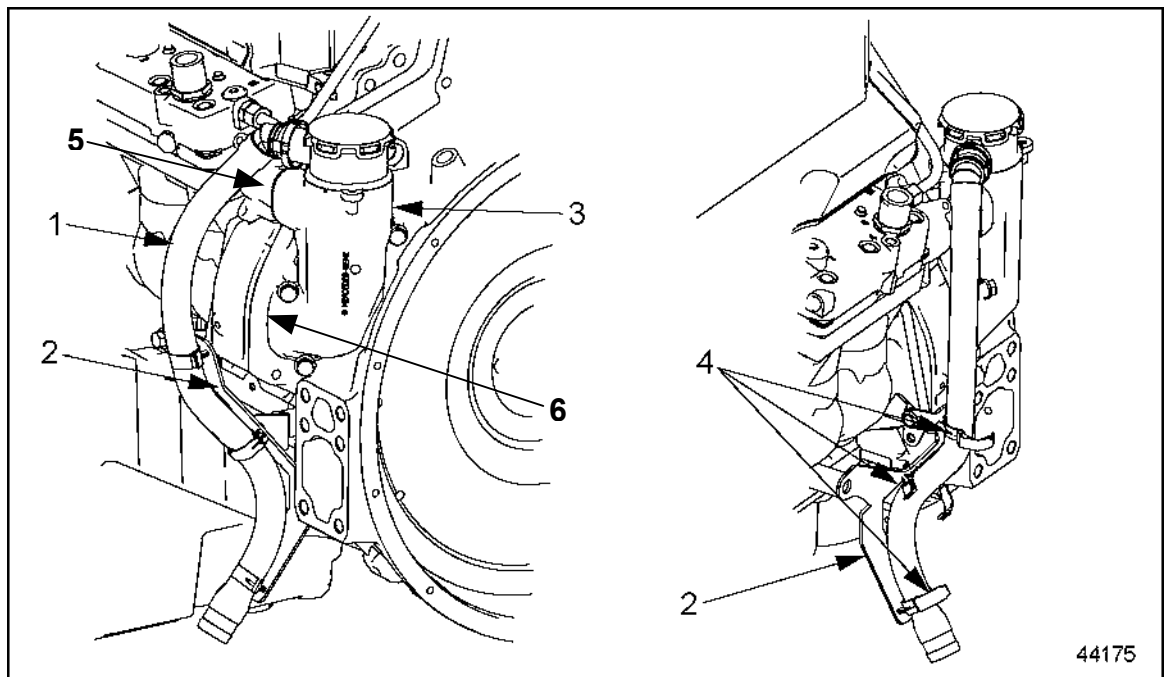
Please contact the DDC Customer Support Center at 313-592-5800 if you have any questions.

Breather Housing Seal Ring – Repair Procedure

NOTE:

For additional safety precautions, refer to the MBE 4000 Service Manual (6SE412) General Information section, “Safety Instructions and Precautions.”

In the event of an oil leak through the breather housing seal ring, use the following procedure for repair (See Figure 1):

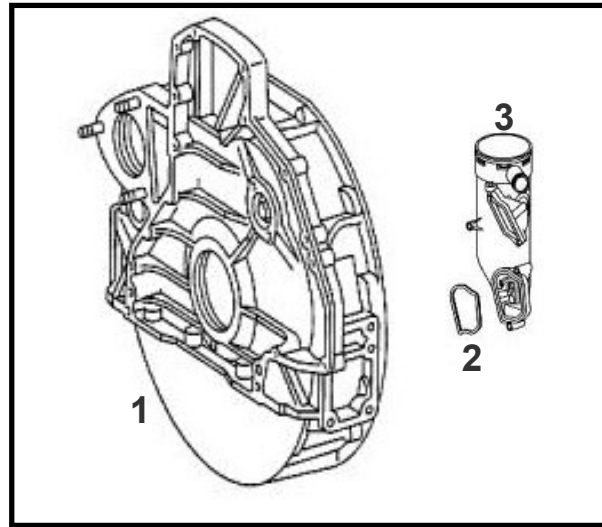


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|--------------------------|---|
| 1. Breather Hose | 4. Clamps |
| 2. Breather Hose Bracket | 5. Engine Block Tube |
| 3. Breather Housing | 6. Breather Seal Ring Location
(between Breather Housing and
Flywheel housing). |

Figure 1 – Breather Assembly

1. Disconnect the breather hose from the breather housing.
2. Disconnect the engine block tube and remove the breather housing from the flywheel housing.

3. Remove the seal ring from the groove in the breather housing (see Figure 2) and discard it. Do not re-use the seal ring.



1. Flywheel Housing

2. Seal Ring

3. Breather Housing

Figure 2 – Breather Assembly – Components View

4. Clean oil from the seal ring groove in the breather housing and from the mounting surface at the flywheel housing using a common solvent.
5. A new gasket set must be applied to the breather assembly. See figure 3 for part numbers.



**Breather Housing Gasket –
P/N: 4760150080**



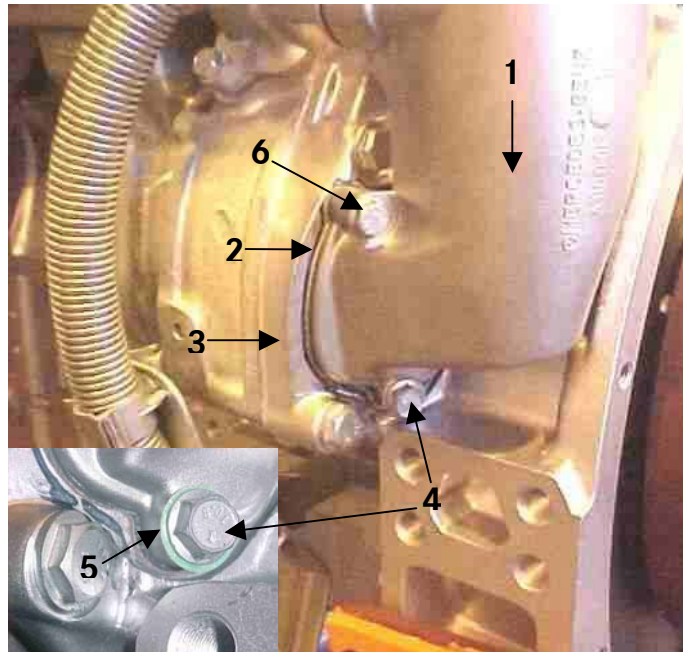
Washer – P/N: 200433013000



Seal Ring – P/N: 4760170060

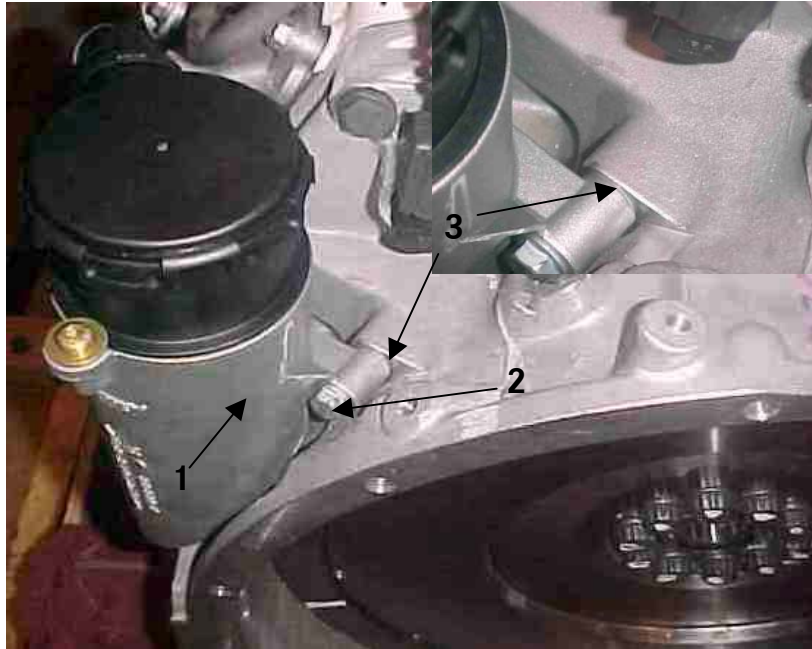
Figure 3 – Gasket Set for the Breather Housing

6. Install the new breather housing gasket (P/N: 4760150080) between the breather housing and the flywheel housing using the center bolt of the breather housing. See Figure 4 for installation details.
7. Install the new seal ring (P/N: 4760170060) at the lower bolt of the breather housing. See Figure 4 for installation details.



- | | |
|-----------------------------------|--|
| 1. Breather Housing | 4. Lower bolt – Breather Housing |
| 2. Breather Housing Gasket | 5. Seal ring |
| 3. Flywheel Housing | 6. Center bolt – Breather Housing |
- Figure 4 – New Breather Housing Assembly**

8. Add the new washer (P/N: 200433013000) at the upper bolt of the breather housing to compensate for the thickness of the breather housing gasket – see Figure 5 for details.



1. Breather Housing

3. Washer

2. Upper Bolt – Breather Housing

Figure 5 – New Breather Housing Assembly

9. Tighten all three M8X35 mm breather housing bolts to **25 Nm (19 lb•ft)**.
10. Connect the engine block tube to the breather housing.
11. Connect the breather hose to the breather housing.
12. Start the engine and check for leaks.