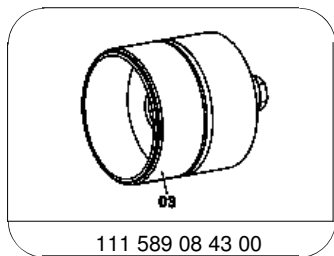
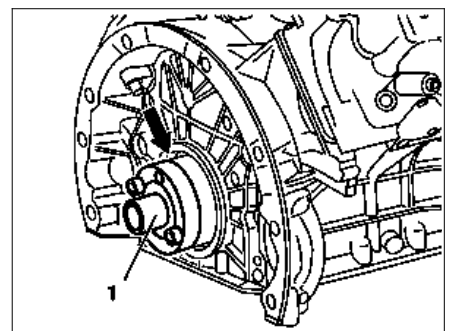


- Engine 111.951
- Engine 111.955
- Engine 112.945 in model 463.209/232/233/244/245/250
- Engine 112
- Engine 113.962 in model 463.206/240/241/247/248/249/254
- Engine 113.982 in model 463.243/246
- Engine 113.993 in model 463.270/271
- Engine 113
- Engine 137
- Engine 275
- Engine 277
- Engine 279



Installation tool

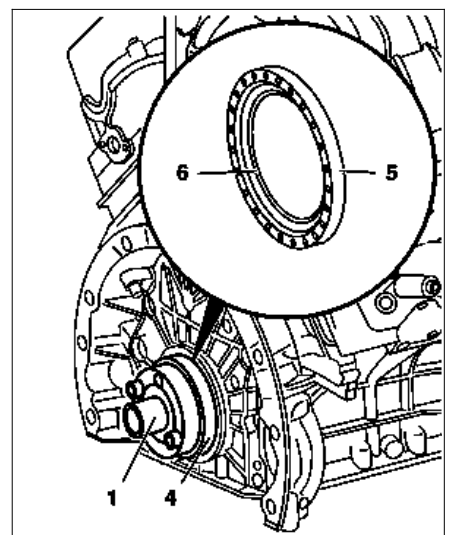
- 1 Deburr edge of mounting hole (arrow) around entire circumference for rear radial shaft sealing ring (4) and clean mounting hole (arrow).
- 2 Fit internal component (1) of installation tool to crankshaft (7).




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- 3 Carefully push rear radial shaft sealing ring (4) over the inner side (1) of the installation tool and the crankshaft journal.

Ensure that the sealing lip (6) of the rear radial shaft sealing ring (4) is not damaged or compressed. Circumference (5) and sealing lip (6) of the rear radial shaft sealing ring (4) as well as the mating surface on the crankshaft (7) must be free of oil and grease.




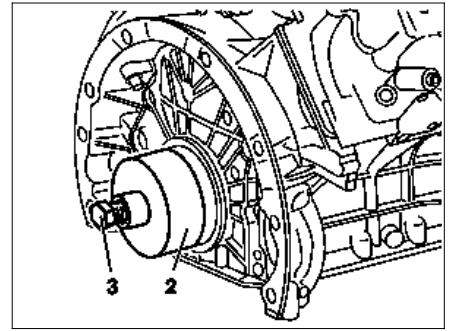
P03.20-2008-02

4 Position the outer part (2) of the  mounting tool.

 Use outer part (2) with chamfer.


5 Screw in screw/bolt (3) until a resistance is felt.


6  Remove the mounting tool.

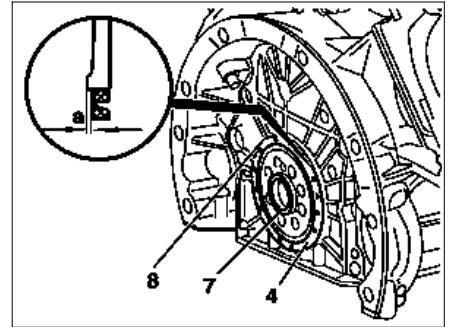


P03.20-2009-01

7 Check installation position of the rear radial shaft sealing ring (4).

 The radial shaft sealing ring (4) must stand at right angles to the crankshaft (7). There will be no perfect sealing achieved otherwise.

 The clearance between the edge of the end cover (8) and the rear radial shaft sealing ring (4) must be approx. 1 mm (dimension a) around the entire circumference.



P03.20-2010-01