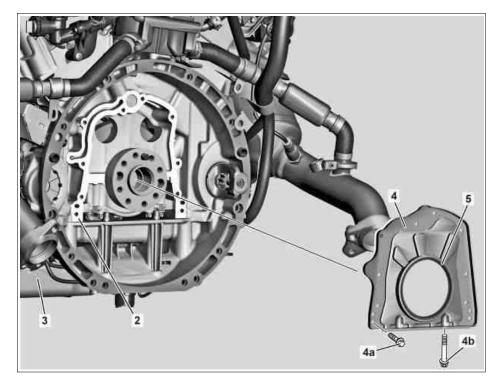
AR03.20-P-3063ELReplace rear crankshaft radial sealing ringENGINES157, 276, 278 in MODEL 212, 218

- 3 Oil pan
- 4 End cover
- 4a Screw
- 4b Screw
- 5 Crankshaft radial seal



P03.20-2325-06

22.6.11

Modification notes

16.3	3.11	Special tool 271 589 00 43 00 replaced by special tool 273	AR03.20-P-3063-01MMA
		589 00 43 00	

XX	Remove/install			
1	Remove driven plate	AR03.30-P-8001EL		
₽¢	Clean			
2	Clean crankcase (2) and oil pan (3) in area of the end cover (4)	Cleaner from package *BR00.45-Z-1028-04A		
3	Remove bolts (4a, 4b)	Nm	*BA01.40-P-1002-01K	
		Nm	*BA01.45-P-1001-01E	
4	Loosen end cover (4) with crankshaft radial sealing ring (5) from crankcase (2)	Do not hit tool for prying off between end cover (4) and crankcase (2); the sealing surface will be damaged.		
		i Fit tool for prying off onto side recess clearances of end cover (4). If required heat up sealant with hot air gun.		
5	Remove end cover (4)	1 Installation: Notes on sealant application and on the correct installation position of lips of crankshaft radial sealing ring (5) must be strictly observed: ↓		
		Install rear crankshaft radial seal (5)	AR03.20-P-3063-01MMA	
		Engine 276	AR03.20-P-3063-01MMA	
		Engine 157, 278	AR03.20-P-3063-01MMB	
		Nm	*BA01.40-P-1002-01K	
		Nm	*BA01.45-P-1001-01E	
		3	*273589004300	
		Loctite 5970 sealant	*BR00.45-Z-1013-01A	
		Cleaner from package	*BR00.45-Z-1028-04A	
		Loctite 7200	*BR00.45-Z-1038-04A	
	Clean			

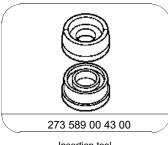
6	Clean sealing surfaces for end cover (4)	Do not use any sharp-edged tools or abrasive paper as this will damage the sealing surfaces.	AR01.00-P-0050-01A
		Loctite 7200	*BR00.45-Z-1038-04A
		Cleaning spray, Loctite 7063 (150ml)	*BR00.45-Z-1046-04A
7	Install in the reverse order		
	Risk of accident caused by vehicle starting off by itself when engine is running. Risk of injury caused by contusions and burns during starting procedure or when working near the engine as it is running	itself. Wear closed and snug-fitting work clothes.	AS00.00-Z-0005-01A
8	Carry out an engine test run and check engine for leaks		

Nm Crankcase, timing case cover, end cover

Number	Designation		Engine 157	Engine 276	Engine 278
BA01.40-P-1002-01K	Bolt, rear end cover to crankcase	Nm	9	9	9

Nm Oil pan

Number	Designation			Engine 157	Engine 276	Engine 278
BA01.45-P-1001-01E	Bolt, oil pan to cylinder crankcase/ timing case cover/rear end cover	M6	Nm	9	9	9



Insertion tool

Repair materials

Number	Designation	Order number
BR00.45-Z-1013-01A	Loctite 5970 sealant	A 003 989 98 20
BR00.45-Z-1028-04A	Cleaner from package	Adolf Würth GmbH & Co. KG Reinhold-Würth-Str. 12-17 74653 Künzelsau-Gaisbach Germany Tel. +49 7940 15-0 Fax +49 7940 15-1000 www.wuerth.de

BR00.45-Z-1038-04A	Loctite 7200	Henkel Loctite Deutschland GmbH Arabellastrasse 17 81925 München Germany Tel. +49 899268-0 Fax + 49 899101978 www.Loctite.de
BR00.45-Z-1046-04A	Loctite 7063 cleaning spray (150 ml)	A 001 986 71 71 10