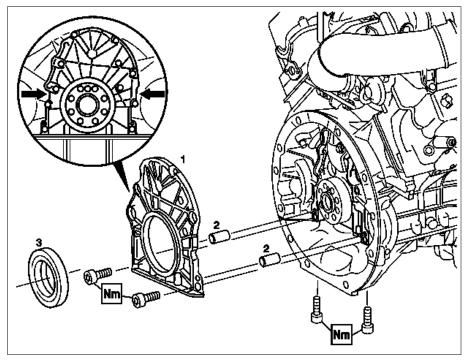
AR01.40-P-8913B Remove/install end cover 22.9.10
ENGINES 112.945 in MODEL 463.209 /232 /233 /244 /245 /250
ENGINES 112 in MODEL 129, 163, 170, 202, 203, 208, 209, 210, 220

ENGINES 113 in MODEL 129, 163, 202, 208, 209, 210, 220, 230.474 /475
ENGINES 112.913 in MODEL 211.061 /261
ENGINES 112.949 in MODEL 211.065 /265
ENGINES 113.967 in MODEL 211.070 /270
ENGINES 113.982 in MODEL 463.243 /246
ENGINES 112.917 in MODELS 211.080 /280
ENGINES 112.954 in MODEL 211.082 /282
ENGINES 113.969 in MODEL 211.083 /283

ENGINES 113.962 in MODEL 463.206 /240 /241 /247 /248 /249 /254

Shown on engine 112

- 1 End cover
- 2 Fitting sleeves
- 3 Crankshaft radial sealing ring



P01.40-0290-06

Modification notes

28.5.08	Clean sealing surfaces - added	Operation step 3	

XX	Remove/install		
1	Remove flywheel/drive plate		AR03.30-P-8001C
2	Remove the end cover (1)	i Pry off end cover (1) carefully at both marked points with a slanted screwdriver (see magnified section).	
		must always be replaced when end cover (1) is removed.	*DA04.40.D.4004.04C
	Clean	Nm .	*BA01.40-P-1004-01C
u P	Clean		
3	Clean sealing surfaces	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
		Loctite 7063 cleaning spray (150 ml)	*BR00.45-Z-1046-04A
4	Install a new rear crankshaft radial seal (3)	i The rear crankshaft radial sealing ring (3) must only be removed once end cover (1) has been removed.	
		Installation: Circumference and lip of the crankshaft radial sealing ring (3) as well as the counter tread on the crankshaft must be free of oil and grease, in order to guarantee a proper function:	
		Install crankshaft radial seal (3).	AR03.20-P-3063-01B *111589084300

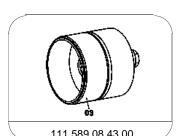
i	Notes on sealant path on end cover with radial shaft seal	i Installation: Pay attention to fitted sleeves (2) when pressing on end cover!	AH01.40-P-1000-06A
		Loctite 5970 sealant	*BR00.45-Z-1013-01A
5	Install in the reverse order		
⚠ Danger!	Risk of accident caused by vehicle starting off by itself 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	Secure vehicle to prevent it from moving by itself. Wear closed and snug-fitting work clothes. Do not touch hot or rotating parts.	AS00.00-Z-0005-01A
6	Carry out engine test run	i Before installing transmission, inspect for oil leaks!	

Nm Crankcase, timing case cover, end cover

Number	Designation			Engine 112 except 112.951/ 976
BA01.40-P-1004-01C	End cover screw	Thread not pre- tapped	Nm	14
		Thread pre- tapped	Nm	10

$\overline{\rm Nm}$ Crankcase, timing case cover, end cover

Number	Designation			Engine 113.940/ 941/942/ 943/944/ 945/946/ 948/960/ 961/962/ 963/964/ 965/966/ 967/968/ 969/971/ 980/981/ 982/984/ 986/992/ 995	Engine 113.987/ 988/990/ 991/993
BA01.40-P-1004-01C	End cover screw	Thread not pre- tapped	Nm	-	-
		Thread pre- tapped	Nm	10	8



Repair materials

Number	Designation	Order number
BR00.45-Z-1013-01A	Loctite 5970 sealant	A 003 989 98 20
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
	Locate 7003 cleaning spray (130 mi)	A 001 900 71 71 10