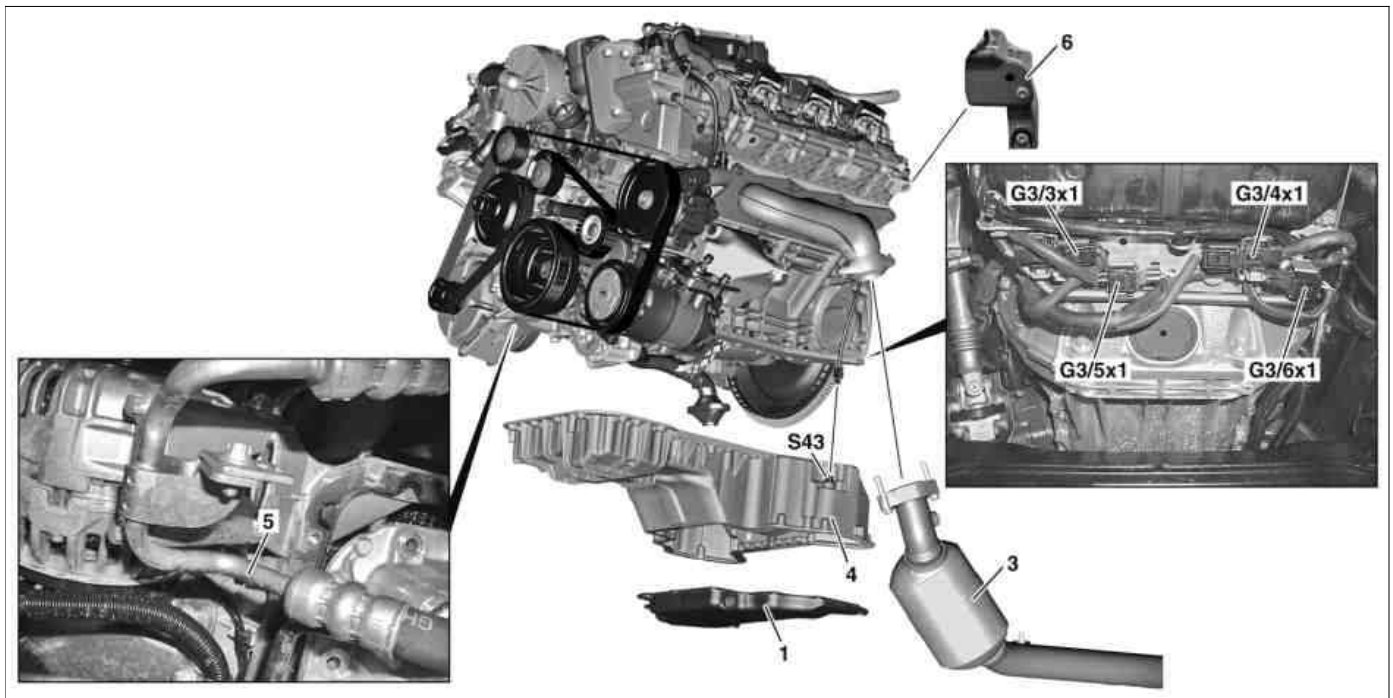





Engine 272 (except 272.982) in model 204.0/2  
Vehicles with rear sump

Engine 272 (except 272.982/984), 273 in model 207  
Vehicles with rear sump



P01.45-2299-09

1	Oil pan bottom section	6	Cover panel	G3/6x1	Electrical connector for right oxygen sensor downstream of catalytic converter
3	Catalytic converter	G3/3x1	Electrical connector for left oxygen sensor upstream of catalytic converter	S43	Oil level check switch
4	Oil pan	G3/4x1	Electrical connector for right oxygen sensor upstream of catalytic converter		
5	Power steering pressure line	G3/5x1	Electrical connector for left oxygen sensor downstream of catalytic converter		

 	Remove/install		
	Information on preventing damage to electronic components due to electrostatic discharge		AH54.00-P-0001-01A
	Notes on avoiding damage through contamination and foreign objects		AH00.00-P-5000-01A
1	Attach engine support frame and lift engine slightly		AR33.10-P-0105CW
2	Remove engine compartment paneling		AR61.20-P-1105EW
3	Remove oil pan bottom section (1)		AR01.45-P-7555CV
4	Detach engine mount from front axle carrier		AR22.10-P-1260CV
5	Detach catalytic converters (3) from exhaust manifold and remove both holders		AR49.10-P-7100CW
6	Disconnect electrical connections for oxygen sensors (G33x1, G34x1, G35x1, G36x1) and detach holder from transmission		
7	Detach pressure line (5) from holder	 Nm	Nut, high-pressure line to alternator bracket *BA46.30-P-1009-01R

8	Detach A/C compressor from timing case cover and engine support	MODEL 204 MODEL 207 Fasten refrigerant compressor with attached pipe system to the side at bottom in the engine compartment and secure against falling down.	AR83.55-P-5300CW AR83.55-P-5300EW
9.1	Detach oil cooling lines to automatic transmission and oil pan (4)	Model 204 with transmission 722.9	AR27.55-P-0600CV
9.2	Detach oil cooling lines from oil pan (4)	MODEL 207 Bolt, oil cooler oil line to engine oil pan	*BA27.55-P-1003-01D
10	Remove the oil dipstick guide tube		AR18.40-P-3510CV
11	Remove hot film mass air flow sensor		AR07.07-P-1453CV
12	Remove air duct housing		AR09.20-P-0080CV
13	Remove cover panel (6)	MODEL 204	
14	Detach holder of coolant line from oil/water heat exchanger at oil filter	MODEL 207	
15	Detach vacuum line from intake manifold	MODEL 207	
16	Remove centrifuge cover		AR01.20-P-2100CV
17	Lift engine		
18	Disconnect electrical connection at switch (S43)		
19	Unscrew screws from oil pan (4)	Engine 272 Engine 273 <b>Installation:</b> Pay attention to the varying bolt lengths and bolt diameters according to the bolt plan. Screw/bolt, oil pan to cylinder crankcase, timing case cover or rear cover Oil pan top section to cylinder crankcase at transmission end Transmission 716.6Bolt, transmission to engine TRANSMISSION 722.9Bolt, automatic transmission to engine	AR01.45-P-7500-06VA AR01.45-P-7500-06SX *BA01.45-P-1002-01M *BA01.45-P-1005-01M *BA26.10-P-1001-01C *BA27.40-P-1008-01A
20	Detach oil pan (4) from crankcase and remove towards the rear Notes on sealant path for oil pan Notes on sealant path for oil pan	Do not drive any tools between crankcase and oil pan to unfasten them. The sealing surfaces will be damaged otherwise! If necessary, heat oil pan (4) in area of sealing surfaces using a hot air gun. <b>Installation:</b> Apply sealant to oil pan sealing surface (4). Sealant, Loctite 5970, 50 ml Application gun	AH01.45-P-0001-01VA AH01.45-P-0001-01SX *BR00.45-Z-1013-01A *112589002500
	<b>Clean</b>		
21	Clean the sealing surfaces on the oil pan (4) and crankcase	Do not use any sharp-edged tools or abrasive paper. The sealing surfaces can get damaged otherwise. Loctite 7200 Loctite 7063 cleaning spray (150 ml)	AR01.00-P-0050-01A *BR00.45-Z-1038-04A *BR00.45-Z-1046-04A
22	Install in the reverse order		
Warning	<b>Risk of accident</b> from vehicle starting off by itself when engine running. <b>Risk of injury</b> (bruises and burns) resulting from working on the engine while it is being started or when it is running.	Secure vehicle to prevent it from starting off by itself. Wear closed and snug-fitting work clothes. Do not touch hot or rotating parts.	AS00.00-Z-0005-01A
23	Carry out an engine test run, checking the engine for proper operation and leaktightness		

Oil pan

Number	Designation	Engine 272	Engine 273
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BA01.45-P-1002-01M	Screw/bolt, oil pan to cylinder crankcase, timing case cover or rear cover	Nm	9	9
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**Nm** Oil pan

Number	Designation		Engine 272	Engine 273
BA01.45-P-1005-01M	Oil pan top section to cylinder crankcase at transmission end	M8 × 30	Nm 20	20

**Nm** Manual transmission complete

Number	Designation		Transmission 716.6
BA26.10-P-1001-01C	Bolt, transmission to engine	Nm	40

**Nm** Housing

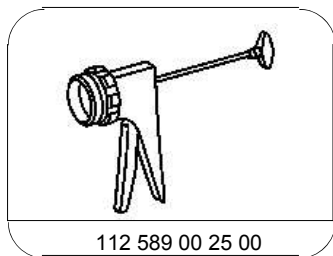
Number	Designation		Transmission 722.9
BA27.40-P-1008-01A	Bolt, automatic transmission to engine	M10 × 40	Nm 38
		M10 × 45	Nm 38
		M10 × 90	Nm 38
		M12	Nm –

**Nm** Oil cooling

Number	Designation		Transmission 722.9
BA27.55-P-1003-01D	Bolt, oil cooler oil line to engine oil pan	Nm	12

**Nm** Power steering pump

Number	Designation		Model 204 with engine 156, 271, 272, 274, 276, 642, 646	Model 207
BA46.30-P-1009-01R	Nut, high-pressure line to alternator bracket	Nm	8	8



112 589 00 25 00

Application gun

Repair materials

Number	Designation	Order number
BR00.45-Z-1013-01A	Sealant, Loctite 5970, 50 ml	A 003 989 98 20 10
BR00.45-Z-1038-04A	Loctite 7200	Henkel AG & Co. KGaA <a href="http://www.loctite.de">http://www.loctite.de</a>
BR00.45-Z-1046-04A	Loctite 7063 cleaning spray (150 ml)	A 001 986 71 71 10