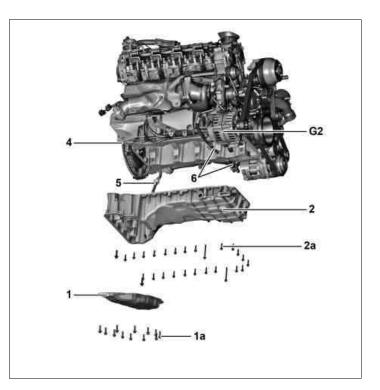
#### Shown on engine 278.932

- 1 Oil pan bottom section
- 1a Screws/bolts
- 2 Oil pan
- 2a Screws/bolts
- 4 Crankcase
- 5 Oil-dipstick guide tube
- 6 Oil lines
- G2 Alternator



P01.45-2365-12

⚠ Warning	<b>Risk of injury</b> . Skin or eye injuries may result when handling hot or glowing objects.	Wear protective gloves, protective clothing and safety glasses, if necessary.	AS00.00-Z-0002-01A
	<b>Risk of death</b> caused by vehicle slipping or toppling off of the lifting platform.	Align vehicle between vehicle lift columns and position the four support plates at the vehicle lift support points specified by the vehicle manufacturer.	AS00.00-Z-0010-01A
⚠ Caution	<b>Risk of injury</b> caused by scraping or cutting body parts on sharp vehicle parts	Always wear protective gloves when working on or near sharp and non-deburred vehicle parts. Deburr repair panels.	AS00.00-Z-0017-01A
⚠ Caution	<b>Risk of injury</b> to skin and eyes due to handling of engine oil. <b>Risk of poisoning</b> caused by swallowing engine oil	Wear protective gloves, protective clothing and safety glasses. Do not fill engine oil into beverage containers.	AS18.00-Z-0001-01A
	Information on preventing damage to electronic components due to electrostatic discharge		AH54.00-P-0001-01A
	Notes on AIRmatic	Engine 157, 278 in model 212, 218 with code 488 (Steel/air suspension) Engine 157, 278 in model 212, 218 with code 489 (AIRMATIC)	AH32.22-P-1000-02EW
	Notes on avoiding damage through contamination and foreign objects		AH00.00-P-5000-01A
	Notes on self-locking nuts and bolts		AH00.00-N-0001-01A
	Notes on bolted connections with self tapping screws		AH00.00-P-0007-01SF
	Notes on threaded connections with aluminum screws/bolts		AH00.00-P-0006-01RM
XX	Remove/install		
1	Relieve all pressure in front suspension struts with diagnostic system	Engine 157, 278 in model 212, 218 with code 489 (AIRMATIC)	
₩ĨAD			AD00.00-P-2000-04A

2	Deactivate easy entry/exit feature	Engine 157, 278 in model 212, 218 with code 275 (Electrically adjustable driver seat, steering column and outside mirrors with memory) Engine 278 in model 207 with code P64 (Memory package)	
3	Turn front wheels to straight-ahead position and fix steering wheel in place with holding device	Do not turn steering wheel on disassembly of steering coupling. Clock spring contact is otherwise destroyed.	*129589012100
4	Disconnect ground cable at battery		AR54.10-P-0003EW
5	Attach engine hoist and raise engine somewha	Engine 157, 278 in model 212, 218	AR33.10-P-0105CW AR33.10-P-0105EW
6	Secure vehicle on the vehicle lift	i       Only raise engine until engine mounts are not under tension.         Engine 278 in model 207	AR00.60-P-0100CW
		Engine 157, 278 in model 212, 218	AR00.60-P-0100EWS
7	Remove engine compartment paneling	i Installation: Only install lower engine compartment paneling after leak test.	AR61.20-P-1105EW
8	Drain engine oil and catch in a suitable container		
₩AP		Engine 157 in model 212, 218	AP18.00-P-0101EWG
₩ AP		Engine 278 in model 207, 212, 218	AP18.00-P-0101EW
9	Remove alternator (G2)		AR15.40-P-5032ELB
10	Remove oil line for oil cooling system	Transmission 722.9 (except 722.96/97/995) in model 212 with engine 157 Transmission 722.9 (except 722.96/97/995) in model 212 with engine 278 Transmission 722.9 (except 722.96/97/995) in model 218 with engine 157 Transmission 722.9 (except 722.96/97/995) in model 218 with engine 278 Transmission 722.9 (except 722.96/995) in model 207 with engine 278	AR27.55-P-0600EV
11	Remove oil dipstick tube (5) from oil pan (2) an	Transmission 722.96 in model 212, 218 with engine 278 Transmission 722.97 in model 212, 218 with engine 157 d i Installation: Replace screws/bolts.	AR27.55-P-0600CWX
	cylinder head cover, and set aside in engine compartment	<ul> <li>Installation: Check sealing ring of the oil dipstick tube (5) in the oil pan (2) and replace if necessary.</li> <li>Mm Screw/bolt, guide tube to oil pan</li> <li>Mm Screw/bolt, guide tube to cylinder head/ cylinder head cover/front cover</li> </ul>	*BA01.45-P-1004-01E *BA01.45-P-1005-01E
12	Remove steering coupling	Engine 278 in model 207 Engine 157, 278 in model 212, 218	AR46.10-P-8000CW AR46.10-P-8000EW
13	Remove oil lines (6) for turbochargers at oil pan (2), and set aside		AR18.30-P-6850ELB
14.1	Release and disconnect electrical connection on fill level sensor	Engine 157 in model 212, 218	
			AR18.40-P-5111ELB
14.2	Release and disconnect electrical connection on oil level check switch	Engine 278 in model 207, engine 207M278 in model 212, 218 Engine 278 in model 207	AR18.40-P-5113FH
		Engine 278 in model 212, 218	AR18.40-P-5113EL
15	Remove brackets of level sensors from spring control arm		
16.1	Loosen and lower front axle carrier somewhat	Engine 157, 278 in model 212, 218 except code M005 (4MATIC) Engine 278 in model 207 Engine 157, 278 in model 212, 218 except code M005 (4MATIC)	AR33.10-P-0001EW
		Engine 278 in model 207	AR33.10-P-0001CW
16.2	Remove front axle transmission	Engine 278 in model 207 Engine 157, 278 in model 212, 218	AN33.10-F-0001677
10.2		with code M005 (4MATIC)	

		Model 212, 218 with engine 157 with transmission 722.97 with code M005 (4MATIC) Model 212, 218 with engine 278 with transmission 722.96 with code M005 (4MATIC) Model 218 with engine 278 with transmission 725.0 with code M005 (4MATIC)	AR33.30-P-0525CWX
17	Remove support brace from front axle transmission	Engine 157, 278 in model 212, 218 with code M005 (4MATIC) Screw/bolt, front axle gear support brace to oil pan	*BA01.45-P-1008-01E
18	Remove screw plugs from oil pan (2)	Engine 157, 278 in model 212, 218 with code M005 (4MATIC) Me Screw plug to oil pan	*BA01.45-P-1006-01E
19	Remove screws/bolts (1a), and remove oil pan bottom section (1)		AR01.45-P-7500-04MM
		<sup>I</sup> Bolt, oil pan bottom section to oil pan Sealant, Loctite 5970, 50 ml	*BA01.45-P-1003-01E *BR00.45-Z-1013-01A
20	Remove screws/bolts from transmission at engine	Transmission 722.96 in model 212, 218 with engine 278 Transmission 722.97 in model 212, 218 with engine 157 Transmission 722.9 (except 722.96/97) in model 212, 218 with engine 157 Transmission 722.9 (except 722.96/97) in	AR27.10-P-0500CWX
		model 212, 218 with engine 278 Transmission 722.9 (except 722.96) in model 207 with engine 278	AR27.10-P-0500CV
21	Remove screws/bolts (2a) from oil pan (2)	i Installation: Pay attention to different lengths of screws/bolts.	*BA01.45-P-1001-01E
		Nm Bolt, oil pan to crankcase	*BA01.45-P-1002-01E
22	Release oil pan (2) from crankcase (4), and remove downwards Notes on sealant path for oil pan	<b>i Installation:</b> Apply sealing compound onto sealing surface of oil pan (2).	AR01.45-P-7500-04MM AH01.45-P-0001-01MMA *BR00.45-Z-1013-01A
23	Remove oil level check switch	Sealant, Loctite 5970, 50 ml Engine 278 in model 207, 212, 218 When installing a new oil pan (2). Engine 278 in model 207 Engine 278 in model 212, 218	AR18.40-P-5113FH AR18.40-P-5113EL
12	Clean		ARTO.401 OTTOLL
24	Clean sealing surfaces on oil pan (2) and crankcase (4)	Do not use any sharp-edged tools or abrasive paper. In order to prevent damage. Loctite 7200 Loctite 7063 cleaning spray (150 ml)	AR01.00-P-0050-01A *BR00.45-Z-1038-04A *BR00.45-Z-1046-04A
25	Install in the reverse order		
<b>1</b>	Check		
26 ☞ AP ☞ AP	Check engine oil level; correct if necessary	Engine 157 in model 212, 218 Engine 278 in model 207, 212, 218	AP18.00-P-0101EWG AP18.00-P-0101EW
▲ Warning	Risk of accident from vehicle starting off by itself when engine running. Risk of injury (bruises and burns) resulting from working on the engine while it is being started or when it is running.Carry out engine test run, checking the engine for leaktightness and proper operation	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

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

# Nm Oil pan

Number	Designation			Engine 157	Engine 278
BA01.45-P-1002-01E	Bolt, oil pan to crankcase	M8	Nm	20	20

# Nm Oil pan

Number	Designation		Engine 157	Engine 278
BA01.45-P-1003-01E	Bolt, oil pan bottom section to oil pan	Nm	14	14

# <sup>Nm</sup> Oil pan

Number	Designation		Engine 157	Engine 278
BA01.45-P-1004-01E	Screw/bolt, guide tube to oil pan	Nm	5	5

# Nm Oil pan

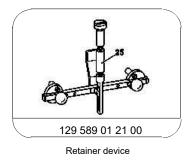
Number	Designation	Engine 157	Engine 278
BA01.45-P-1005-01E	Screw/bolt, guide tube to cylinder head/cylinder head cover/front cover Nm	5	5

### Nm Oil pan

Number	Designation			Engine 157	Engine 278
BA01.45-P-1006-01E	Screw plug to oil pan	M26	Nm	20	20

# Nm Oil pan

Number	Designation			Engine 157	Engine 278
BA01.45-P-1008-01E	Screw/bolt, front axle gear support brace to oil	M12	Nm	60	60
	pan				



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		Henkel AG & Co. KGaA http://www.loctite.de
BR00.45-Z-1046-04A	Loctite 7063 cleaning spray (150 ml)	A 001 986 71 71 10