

AR01.45-P-7555PV

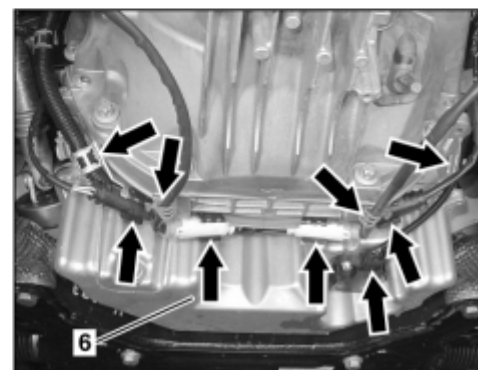
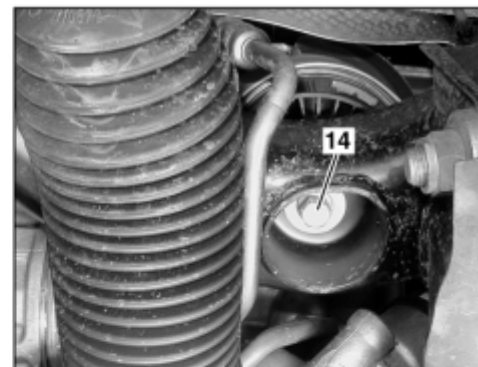
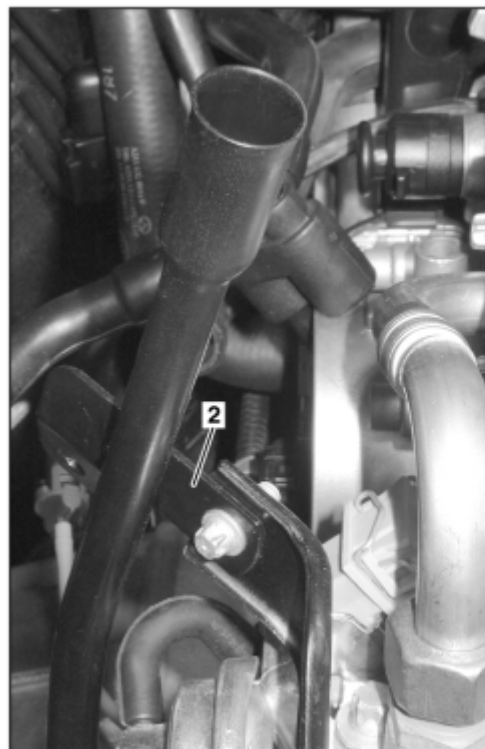
Remove/install bottom part of oil pan

20.12.05

ENGINE 112.949 in MODEL 211.065 with TRANSMISSION 722.6  
 ENGINE 113.967 in MODEL 211.070 with TRANSMISSION 722.6

**Shown on ENGINE 112 in MODEL 211**

2 Oil dipstick guide tube  
 6 Oil pan bottom section  
 14 Engine mount bolts










P01.45-2094-06







**Shown on engine 113.967**










4 Bracket  
 5 Right ATF line  
 5a Left ATF line  
 6 Oil pan bottom section  
 8 Bolt  
 9 Bolt  
 10 Mounting cradle



P01.45-2192-06

	<b>Remove/install</b>		
 <b>Danger!</b>	<b>Risk of death</b> caused by vehicle slipping or toppling off the lifting platform.	Align vehicle between the columns of the lifting platform and position the four support plates below the lifting platform support points specified by the vehicle manufacturer.	<a href="#">AS00.00-Z-0010-01A</a>
 <b>Danger!</b>	<b>Risk of accident</b> caused by vehicle starting off by itself when engine is running. <b>Risk of injury</b> caused by contusions and burns during starting procedure or when working near the running engine	Secure vehicle to prevent it from moving by itself. Wear closed and snug-fitting work clothes. Do not grasp hot or rotating parts.	<a href="#">AS00.00-Z-0005-01A</a>
 <b>Danger!</b>	<b>Risk of explosion</b> caused by oxyhydrogen gas. <b>Risk of poisoning and caustic burns</b> caused by swallowing battery acid. <b>Risk of injury</b> caused by burns to skin and eyes from battery acid or when handling damaged lead-acid batteries	No fire, sparks, open flames or smoking. Wear acid-resistant gloves, clothing and safety glasses. Only pour battery acid into suitable and appropriately marked containers.	<a href="#">AS54.10-Z-0001-01A</a>
1	Remove air filter housing	 Remove air filter by lifting vertically up and off the cylinder head covers.	
		 <b>Installation:</b> Moisten slightly with sliding compound the rubber retainers on the cylinder head covers and the sealing ring of the hot film mass air flow sensor (B2/5) in the air filter housing.	
		 On model 211: Unclip cover of engine face end.	
		Liquid lubricant (Naphtolen H)	<a href="#">BR00.45-Z-1003-06A</a>
2.1	Remove hot film mass air flow sensor (B2/5) with air intake tube		<a href="#">AR07.07-P-1454SV</a>
3.1	Unscrew oil dipstick guide tube (2) from bracket at exhaust gas recirculation valve (3)	Model 211	

4	Pull out dipstick guide tube (2) slightly.		
5	Put on engine support bracket	Model 211	<a href="#">AR33.10-P-0100-01T</a>
6	Remove engine compartment paneling	Models 211.065/070	<a href="#">AR61.20-P-1105T</a>
7.1	Remove pressure line on power steering pump	Model 211	
		 Remove bolts (8, 9) for bracket on power steering pump pressure line on oil pan bottom section (6).	
8	Drain and collect engine oil	 <b>Installation:</b> Replace sealing ring of the oil drain screw.	
		 Oil drain plug to oil pan	<a href="#">BA01.45-P-1003-01B</a>
			<a href="#">BF18.00-P-1001-01H</a>
9	Unscrew bolts of engine mount (14) at front axle carrier	Model 211	
		 Bolt, front engine mount to front subframe	<a href="#">BA22.10-P-1001-01L</a>
10	Raise engine	 Lift and lower the engine carefully to prevent causing damage.	
11.1	Detach lines of oil sensor (oil level, temperature and quality) (B40) and the O2 sensors (arrows) and attach to the side	Model 211	
12.1	Remove mounting clamp (10) of right automatic oil line (5) and left automatic oil line (5a) at bracket (4)	On vehicles with transmission 722.6	
13.1	Remove bracket (4) of right automatic oil line (5) and left automatic oil line (5a) at oil pan bottom section (6)	On vehicles with transmission 722.6	
14.1	Detach right ATF line (5) at transmission	On vehicles with transmission 722.6	

		 <b>Installation:</b> Replace sealing rings of banjo Bolt, right automatic oil line (7), in order to avoid oil leakage.	
15	Unscrew bolts of oil pan bottom section (6)	 Self-tapping screw of oil pan to oil pan	<a href="#">BA01.45-P-1002-01B</a>
16	Take out bottom part of oil pan (6) to the rear	Model 211: Slide oil dipstick guide tube (2) a little to the side.	
		 <b>Installation:</b> Ensure correct seating of Gasket of oil dipstick guide tube (2) in oil pan top section. Observe application of sealing compound to oil pan bottom section (6).	
	Notes on application of sealant to oil pan	Engine 112.949	<a href="#">AH01.45-P-0001-01PV</a>
	Notes on application of sealant to oil pan	Engine 113.967	<a href="#">AH01.45-P-0001-01R</a>
		Loctite sealant 5970	<a href="#">BR00.45-Z-1015-01A</a>
17	Install in the reverse order		
18	Read out fault memory and erase	 Stored faults which may be caused by removal, test work, removed lines or a simulation, must be processed and erased in the fault memories after completing the work.	
	Connect up STAR DIAGNOSIS and read out fault memory		<a href="#">AD00.00-P-2000-04A</a>
		STAR DIAGNOSIS diagnosis system	<a href="#">WE58.40-Z-1013-06A</a>
19.1	Check engine oil level	Engines 112.949 in model 211	<a href="#">AR18.00-P-3035-01A</a>
		Engine 113.967 in model 211	<a href="#">AR18.00-P-3035-01CC</a>
		 Remote thermometer	<a href="#">124 589 07 21 00</a>
		 Measuring rod	<a href="#">120 589 07 21 00</a>

20.1	Check engine oil level		
21.1	Inspect ATF level in automatic transmission, top up if necessary	On vehicles with transmission 722.6	
		Model 211	<a href="#">AR27.00-P-0101A</a>
22	Run engine and inspect for leaks		

 Oil pan

Number	Designation		Engines 112.949/954	Engines 113.967/969
BA01.45-P-1002-01B	Self-tapping screw, oil pan to oil pan	Thread not pre-tapped	Nm 14	14
		Thread pre-tapped	Nm 10	10
BA01.45-P-1003-01B	Oil drain screw on oil pan	M14	Nm 30	30

 Engine mounts, engine supports

Number	Designation		Engine 112.949 in model 211
BA22.10-P-1001-01L	Bolt, front engine mounts to front axle carrier		Nm 35

 Engine mounts, engine supports

Number	Designation		Engine 113.967 in model 211
BA22.10-P-1001-01L	Bolt, front engine mounts to front axle carrier		Nm 35

 Engine lubrication

Number	Designation		Engine 112	Engine 113.969	Engine 113.967
BF18.00-P-1001-01H	Engine oil	Filling capacity with oil filter	Liters 8.0	8.0	7.5
		Filling capacity without oil filter	Liters 7.5	-	-
		Specifications	Sheet <a href="#">BB00.40-P-0229-01A</a>	<a href="#">BB00.40-P-0229-01A</a>	<a href="#">BB00.40-P-0229-01A</a>

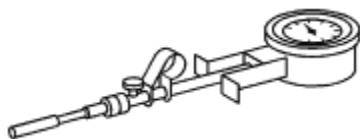
		for Operating Fluids	Sheet	<a href="#">BB00.40-P-0229-03A</a>	<a href="#">BB00.40-P-0229-03A</a>	<a href="#">BB00.40-P-0229-03A</a>
			Sheet	<a href="#">BB00.40-P-0229-05A</a>	<a href="#">BB00.40-P-0229-05A</a>	<a href="#">BB00.40-P-0229-05A</a>

### Engine lubrication

Number	Designation			Engine 113.990
BF18.00-P-1001-01H	Engine oil	Filling capacity with oil filter	Liters	8.5
		Filling capacity without oil filter	Liters	8.0
		Specifications for Operating Fluids	Sheet	-
			Sheet	-
			Sheet	<a href="#">BB00.40-P-0229-05A</a>



120 589 07 21 00  
Measuring rod



124 589 07 21 00  
Remote thermometer

### Workshop equipment/MB testers (see Workshop Equipment Manual)

WE58.40-Z-1013-06A	STAR DIAGNOSIS Compact diagnosis system for passenger cars, order number 6511 1801 00
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### Auxiliary repair materials

Number	Designation	Order number
BR00.45-Z-1015-01A	Loctite sealant 5970	A 003 989 98 20 10
BR00.45-Z-1003-06A	Liquid lubricant (Naphtolen H)	000 989 01 60