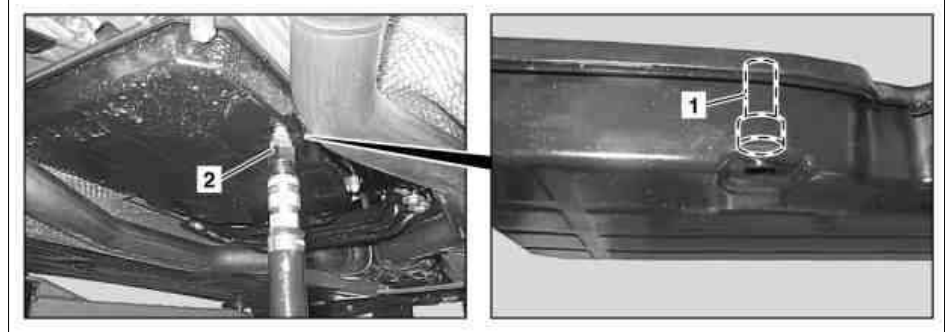


Transmission 722.96/97

Modification notes

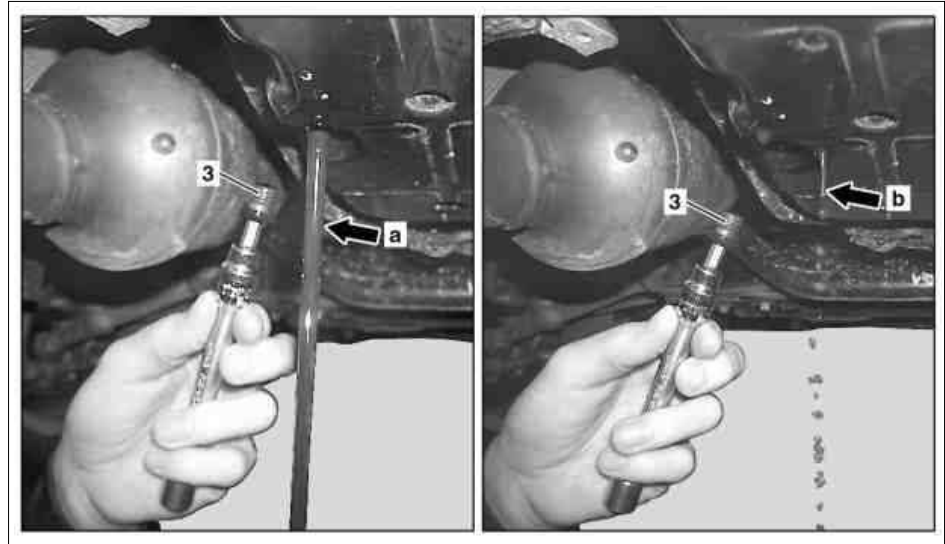
13.08.2018	Document revised completely.	Operation steps 1 to 25
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- 1 Overflow pipe
2 Adapter










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






- 3 Drain screw
a Constant oil flow for excessively large oil filling capacity and at start of oil adjustment
b Correct oil filling capacity after draining off excess quantity



P27.00-2330-05

⚠ Warning	Risk of injury. 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
⚠ Caution	Risk of injury 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	Risk of injury to skin and eyes due to handling of transmission oil. Health risk caused by swallowing transmission oil	Wear protective gloves, protective clothing and safety glasses. Do not pour transmission oil into beverage bottles.	AS00.40-Z-0001-01A
	Risk of death 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
⚠ 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.	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
	Notes on avoiding damage through contamination and foreign objects		AH00.00-P-5000-01A

<p>5</p> <p> BB</p> <p> BB</p>	<p>Pour prefill quantity (700 ml) into transfer case.</p> <p>Automatic transmission fluids (ATF) (specification 236.14)</p> <p>Automatic transmission fluids (ATF) (specification 236.15)</p>	<p>If repair work on transfer case has been performed.</p> <p> Hand pump</p>	<p>BB00.40-P-0236-14A</p> <p>BB00.40-P-0236-15A</p> <p>*210589007100</p>
<p>6</p>	<p>Tighten new oil filler screw.</p>	<p>If repair work on transfer case has been performed.</p> <p> Transmission 722.96 in model 204, 205, 207, 212, 216, 217, 218, 221, 222 Filling screw to intermediate housing</p> <p> Transmission 722.97 in model 205, 212, 217, 218, 222 Filling screw to intermediate housing</p>	<p>*BA28.10-P-1005-01E</p> <p>*BA28.10-P-1005-01F</p>
<p>7</p>	<p>Install rear engine crossmember.</p> <p>Notes on bolted connections with self tapping screws</p>	<p>If repair work on transfer case has been performed.</p> <p>Model 205 with engine 274 with transmission 722.96</p> <p>Model 205 with engine 276 with transmission 722.96</p> <p>Model 205 with engine 651 with transmission 722.96</p> <p>Model 217 with engine 157 with transmission 722.97</p> <p>Model 217 with engine 276.8 with transmission 722.96</p> <p>Model 217 with engine 278 with transmission 722.96</p> <p>Model 222 with engine 157 with transmission 722.97</p> <p>Model 222 with engine 276.8 with transmission 722.96</p> <p>Model 222 with engine 278 with transmission 722.96</p> <p>Model 222 with engine 642 with transmission 722.96</p> <p>Model 204, 207, 212, 218 with engine 276 with transmission 722.96</p> <p>Model 204, 212 (except 212.098/298) with engine 651 with transmission 722.96</p> <p>Model 204, 212 with engine 272 with transmission 722.96</p> <p>Model 204, 212, 218 with engine 642 with transmission 722.96</p> <p>Model 212 with engine 273 with transmission 722.96</p> <p>Model 212, 218 with engine 157 with transmission 722.97</p> <p>Model 212, 218 with engine 278 with transmission 722.96</p> <p>Model 216 with engine 273 with transmission 722.96</p> <p>Model 216 with engine 278 with transmission 722.96</p> <p>Model 221 with engine 272 with transmission 722.96</p> <p>Model 221 with engine 273 with transmission 722.96</p> <p>Model 221 with engine 276 with transmission 722.96</p> <p>Model 221 with engine 278 with transmission 722.96</p> <p>Model 221 with engine 642 with transmission 722.96</p>	<p>AH00.00-P-0007-01SF</p> <p>AR22.10-P-4360LWB</p> <p>AR22.10-P-1180LF</p> <p>AR22.10-P-1180CW</p> <p>AR22.10-P-1180SW</p>
<p>8</p>	<p>Remove drain screw (3) from transmission.</p>		
<p>9</p> <p> WS</p>	<p>Attach adapter (2) and connect oil dispenser.</p> <p>000 588 06 82 00 Oil dispenser</p>		<p>WS18.00-P-0026B</p>
<p>10</p>	<p>Pump 6 l of transmission oil into transmission.</p>	<p> Observe Specifications for Operating Fluids. Otherwise the transmission will be damaged.</p>	

		<p> On transmissions that have been repaired, add the quantity of transmission oil drained + 0.5 l.</p> <p> Transmission 722.96/972 Transmission 722.971 Filling capacity</p>	*BF27.00-P-1001-01C
11	Start engine.		
12	Determine transmission oil temperature using diagnostic system.	<p>Transmission 722.96 in model 205, 217, 222 Transmission 722.97 in model 205, 217, 222 Transmission 722.96 in model 204, 207, 212, 216, 218, 221 Transmission 722.97 in model 212, 218</p>	<p>AD00.00-P-2000-04B</p> <p>AD00.00-P-2000-04A</p>
13.1	Bring transmission oil temperature to 90 °C/194 °F.	<p>If the transmission oil cooler was replaced.</p> <p> The thermostat between the automatic transmission and the auxiliary transmission oil cooler opens at 90 °C/194 °F.</p> <p> Engine speed 2500 rpm, selector lever in position P.</p>	
13.2	Bring transmission oil temperature to 45 °C/113 °F.	If the vehicle has no additional transmission cooler has or if this has not been removed or replaced.	
14.1	Switch off engine and allow transmission oil to cool down.	If the transmission oil cooler was replaced.	
14.2	Switch off engine.	If the vehicle has no additional transmission cooler has or if this has not been removed or replaced.	
15	Determine transmission oil temperature using diagnostic system.	 Transmission oil temperature 45 °C/113 °F. The transmission oil temperature must not exceed the specified value, because the overflow pipe (1) in the transmission's oil pan is designed for the transmission oil temperature.	
16	Start engine and run in selector lever position P.		
17	Pump transmission oil into transmission using oil dispenser. 000 588 06 82 00 Oil dispenser	<p> Observe Specifications for Operating Fluids. Otherwise the transmission may be damaged.</p> <p>If the transmission and the torque converter have been emptied or replaced,</p> <p style="text-align: center;">↓</p> <p>Refill 4 l of transmission oil. Automatic transmission fluids (ATF) (specification 236.14)</p> <p>Automatic transmission fluids (ATF) (specification 236.15)</p> <p>If the torque converter has not been emptied,</p> <p style="text-align: center;">↓</p> <p>Refill 2 l of transmission oil. Automatic transmission fluids (ATF) (specification 236.14)</p> <p>Automatic transmission fluids (ATF) (specification 236.15)</p>	<p>WS18.00-P-0026B</p> <p>BB00.40-P-0236-14A</p> <p>BB00.40-P-0236-15A</p> <p>BB00.40-P-0236-14A</p> <p>BB00.40-P-0236-15A</p>
	Correct transmission oil level		
18	Shift through drive ranges P-R-N-D several times with brake actuated and engine idling.		
19	Run engine in selector lever position P at idle speed.		
20	Determine transmission oil temperature using diagnostic system.	 Transmission oil temperature 45 °C/113 °F. The transmission oil temperature must not exceed the specified value, because the overflow pipe (1) in the transmission's oil pan is designed for the transmission oil temperature.	
21	Disconnect oil dispenser and remove adapter (2).		

WS	000 588 06 82 00 Oil dispenser		WS18.00-P-0026B
22	Drain off constant oil stream (arrow a) at specified transmission oil temperature until only drops come out (refer to correct oil filling capacity (arrow b)).	i Transmission oil temperature 45 °C/113 °F. The engine must run at idle speed and the transmission oil temperature must not be above the specified transmission oil temperature, too much transmission oil is drained at a higher transmission oil temperature. If the oil flow after removing the adapter (2) is not constant, ↓ Continue with operation step 15.	
23	Tighten drain screw (3).	i Replace seal. Nm Drain screw to oil pan	*BA27.10-P-1001-03D
24	Switch off engine.		
25	Lower vehicle.	Transmission 722.96 in model 204, 205, 207, 212, 216, 217, 218, 221, 222 Transmission 722.97 in model 205, 212, 217, 218, 222 Transmission 722.96 in model 205 Transmission 722.96 in model 216, 221 Transmission 722.96/97 in model 217, 222	AR00.60-P-1000LW AR00.60-P-1000SX AR00.60-P-1000LF

Nm Automatic transmission oil pan

Number	Designation		Transmission 722.9
BA27.10-P-1001-03D	Drain screw to oil pan	Nm	22

Nm Complete transfer case

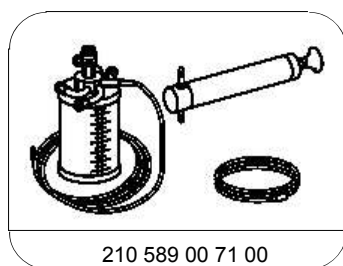
Number	Designation		Model 204, 205, 207, 212, 216, 217, 218, 221, 222 with transmission 722.96
BA28.10-P-1005-01E	Filling screw to intermediate housing	Nm	20

Nm Complete transfer case

Number	Designation		Model 205, 212, 217, 218, 222 with transmission 722.97
BA28.10-P-1005-01F	Filling screw to intermediate housing	Nm	20

E Automatic transmission

Number	Designation			Transmission 722.971	Transmission 722.96/972
		with complete refill	Liter	7,8	9,7
BF27.00-P-1001-01C	Filling capacity	with oil change	Liter	-	-
		Sheet		BB00.40-P-0236-14A	BB00.40-P-0236-14A
		Sheet		BB00.40-P-0236-15A	BB00.40-P-0236-15A



210 589 00 71 00

Hand pump