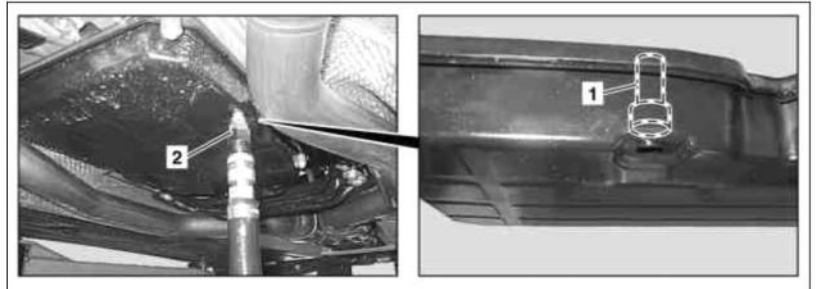


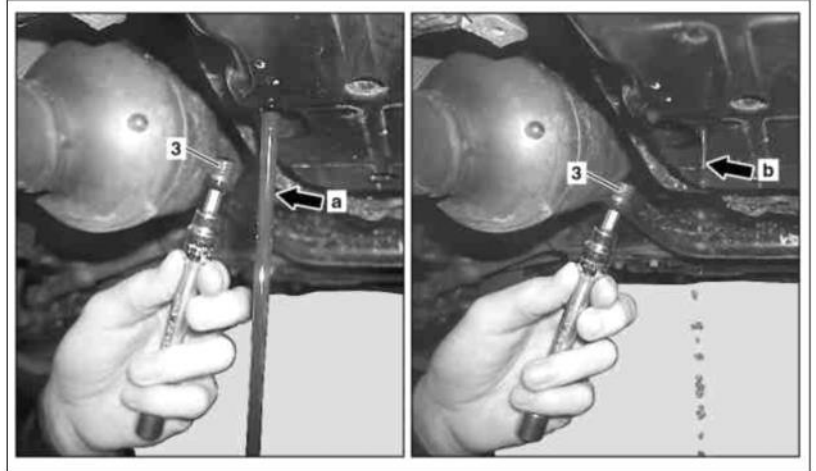
AR27.00-P-0270W	Filling automatic transmission with fluid	12.8.11
TRANSMISSION	722.9 (except 722.96)	
TRANSMISSION	722.9	

- 1 Overflow pipe
- 2 Adapter



P27.00-2165-04

- 3 Oil 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

Modification notes

23.6.10	Reference to modified transmission oil pan, added	BT27.10-P-0006-01A
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	Adding transmission oil		
⚠ Danger!	Risk of death caused by vehicle slipping or toppling off of the lifting platform.	Align vehicle between columns of vehicle lift and position four support plates at vehicle lift support points specified by vehicle manufacturer.	AS00.00-Z-0010-01A
⚠ 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
		ⓘ In order to avoid damage to the transmission, always observe the Specifications for Operating Fluids!	
		ⓘ The transmission must be filled with transmission oil before starting the engine	
1	Raise vehicle	ⓘ The vehicle must be situated on the lifting platform so that it is level in both the longitudinal and transverse axes.	
2	Inspecting transmission oil pan	ⓘ The transmission oil pan and the overflow pipe (1) have been redesigned to optimize the oil feed of the transmission. When checking and correcting the fluid level always note the fluid temperatures associated with the specific individual oil pan noted.	
BT	Transmission oil pan and overflow pipe (1) modified	Only category P with transmission 722.9 as of production date 21.6.2010 with engine 113, 156, 157, 271, 272, 273, 275, 276, 278, 642, 651	BT27.10-P-0006-01A
BT	Transmission oil pan and overflow pipe (1) modified	Only category P with transmission 722.901	BT27.10-P-0006-01W

3	Remove oil drain screw (3) and mount adapter (2) and connect oil dispenser	<p>i The adapter (2) and oil dispenser can be obtained from two manufacturers: Adapter gotis://S_18.2_04.2 Oil dispenser gotis://S_18.2_04.1</p>	
4	Pump 6 liters of transmission oil into transmission	<p>w In order to avoid damage to the transmission, always observe the Specifications for Operating Fluids.</p> <p>i On transmissions which have been repaired the quantity of transmission oil drained +0.5 liters should be poured in.</p> <p>w</p> <p>Transmissions up to production date 18.06.2010 and all transmissions 722.9 in combination with engine 629 All transmissions 722.9 as of production date 21.06.2010 except transmission 722.9 in combination with engine 629</p>	<p>*BF27.00-P-1001-01C BB00.40-P-0236-14A BB00.40-P-0236-15A</p>
5	Start engine		
6	Call up the transmission fluid temperature using STAR DIAGNOSIS		AD00.00-P-2000-04A
7.1	Bring transmission oil temperature to 90 °C/194 °F	<p>Vehicles with additional transmission oil cooler</p> <p>i Only with previous removal/replacement of additional transmission oil cooler.</p> <p>i Thermostat opens at 90°C/194°F.</p> <p>i Engine speed 2500 rpm, selector lever in position "P".</p>	
7.2	Bring transmission oil temperature to 45°C/113°F	<p>Vehicles without additional transmission oil cooler</p> <p>i On vehicles without additional transmission oil cooler and with chamfered transmission oil pan and with white or green overflow pipe (1) the transmission oil temperature must be 45 °C/113 °F.</p>	
7.3	Bring transmission oil temperature to 35°C/95°F	<p>Vehicles without additional transmission oil cooler</p> <p>i On vehicles without additional transmission oil cooler and without chamfered transmission oil pan and with black overflow pipe (1) the transmission oil temperature must be 35 °C/95 °F.</p>	
8.1	Switch off engine and allow transmission oil to cool down	<p>Vehicles with additional transmission oil cooler</p> <p>i Only with previous removal/replacement of additional transmission oil cooler.</p>	
8.2	Turn off engine	Vehicles without additional transmission oil cooler	
9	Call up the transmission fluid temperature using STAR DIAGNOSIS	<p>i On transmissions with chamfered transmission oil pan and with white or green overflow pipe (1) the transmission oil temperature must be 45 °C/113 °F.</p> <p>i On transmissions without chamfered transmission oil pan and with black overflow pipe (1) the transmission oil temperature must be 35 °C/95 °F.</p>	
10	Start engine and allow to run in selector lever position "P"		
11	Pump transmission oil using oil dispenser into transmission	<p>i After replacing the transmission and torque converter: Pour in approx. 4 liters of transmission oil.</p> <p>i If the torque converter has not been emptied: Pour in approx. 2 liters of transmission oil.</p> <p>w</p>	*BF27.00-P-1001-01C
	Correct transmission fluid level		
12	Shift through "P-R-N-D" several times with the vehicle stationary and the engine idling		
13	Allow engine to idle in selector lever position "P"		
14	Call up the transmission fluid temperature using STAR DIAGNOSIS	i Because the overflow tube (1) within the oil pan is designed for operation at the specified fluid temperature, this temperature should never exceed the level indicated.	

		<p>i On transmissions with chamfered transmission oil pan and with white or green overflow pipe (1) the transmission oil temperature must be 45 °C/113 °F.</p> <p>i On transmissions without chamfered transmission oil pan and with black overflow pipe (1) the transmission oil temperature must be 35 °C/95 °F.</p>	
15	Remove the adapter (2)		
16	Drain off constant oil flow (arrow a) at specified transmission oil temperature, until only drops come out (refer to correct oil filling capacity (arrow b))	<p>! It is essential that the engine be running at idle speed, and that the temperature of the transmission fluid not exceed the specified level. If the operation is carried out with the fluid at a higher temperature, too much fluid will be drained.</p> <p>i If the oil flow is not constant after opening the drain screw, the transmission oil level has to be corrected (as of operation step 11) and then adjusted again.</p> <p>i On transmissions with chamfered transmission oil pan and white or green overflow pipe (1) the transmission oil temperature must be 45 °C/113 °F.</p> <p>i On transmissions without chamfered transmission oil pan and black overflow pipe (1) the transmission oil temperature must be 35 °C/95 °F.</p>	
17	Replace sealing ring and screw in oil drain screw (3)	Nm	*BA27.10-P-1001-03D
18	Turn off engine		
19	Lower vehicle		

Nm Oil pan, automatic transmission

Number	Designation	Transmission 722.9
BA27.10-P-1001-03D	Drain plug on transmission oil pan	Nm 22

! Automatic transmission

Number	Designation	Transmission 722.9 except 722.93/96	Transmission 722.93
BF27.00-P-1001-01C	Filling capacity		
	Initial charge	Liters 9	7.1
	during oil change	Liters -	-
	Specifications for Operating Fluids	Sheet	BB00.40-P-0236-14A
Sheet		BB00.40-P-0236-15A	BB00.40-P-0236-15A