

P27.00-2136-09























- 1 Transmission housing
- 3 Oil pan
- 3a Sprag
- 3b Bolts

- 31 Overflow pipe
- 32 Permanent magnet
- 33 Gasket
- 34 Oil filter

**Modification notes**

4.12.08	Shift automatic transmission into neutral and switch off ignition, added Drain automatic transmission fluid from torque converter, added	Step 1 Step 6	
29.1.09	Replace seal, added	Operation step 14	

	Removing		
<b>⚠ Danger!</b>	<b>Risk of injury</b> to skin or eyes caused by hydraulic fluid spraying out under high pressure. <b>Risk of poisoning</b> caused by swallowing hydraulic fluid	Depressurize the hydraulic system completely before starting any work on the system. Wear protective clothing and safety glasses.	AS00.00-Z-0013-01A
<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 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
<b>⚠ Danger!</b>	<b>Risk of injury</b> to skin and eyes caused by handling hot or glowing objects.	Wear safety gloves, protective clothing and safety glasses, if necessary.	AS00.00-Z-0002-01A
<b>⚠ Danger!</b>	<b>Risk of death</b> 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
1	Shift automatic transmission into neutral and switch off ignition		
2	Lift vehicle on lifting platform.	<b>i</b> The vehicle must be horizontal on the vehicle lift in the longitudinal and transverse direction.	
3	Check oil pan (3)	Transmission 722.901 <b>i</b> The oil pan (3) and overflow pipe (31) have been redesigned to optimize the oil supply of the automatic transmission. The previous oil pan (3) without bevel and with black overflow pipe (31) should be replaced after removal by oil pan (3) with bevel and with white overflow pipe (31).	
	Oil pan and overflow tube modified		BT27.10-P-0006-01W

4	Remove drain screw from oil pan (3)	 Collect escaping automatic transmission fluid with drain pan. Note quantity of automatic transmission fluid. Drain pan <a href="#">gotis://S_18.1_08.0</a>	
5	Pry overflow pipe (31  ) off base (arrow) using a drift	 Collect escaping automatic transmission fluid with drain pan. Note quantity of automatic transmission fluid. Drain pan <a href="#">gotis://S_18.1_08.0</a>  Drift	*722589031500
6	 Drain automatic transmission fluid from torque converter Drain transmission fluid from torque converter	Vehicles with drain screw on torque converter, except on transmission 722.93 Drain pan <a href="#">gotis://S_18.1_08.0</a> 	AR27.20-P-0200-03R *BA27.20-P-1001-01C
7	Remove oil pan (3)	 To do this, remove bolts (3b) and remove sprag (3a).	
8	Remove oil filter (34)		
9	Remove overflow pipe (31) from oil pan (3)		
	<b>Clean</b>		
10	Clean permanent magnet (32) and check for damage	 Replace permanent magnet (32) if necessary.	
11	Clean oil pan (3)	 It is <b>essential</b> to clean and degrease sealing surfaces thoroughly. Allow used cleaning sprays to flash off completely otherwise leaks may occur. The sealing surfaces on oil pan (3) and transmission housing (1) must be free of oil and grease.	
	<b>Install</b>		
12	Install new oil filter (34) with new O-ring		
13	Install new overflow pipe (31)	 Press new overflow pipe (31) firmly onto the base (arrow) in the oil pan (3). The overflow pipe (31) must latch noticeably.	
14	Install oil pan (3) with new seal (33)	 Always replace seal (33).  The sprags (3a) are only permitted for transmission 722.9 and may not be mixed up with sprags (3a) of other transmissions otherwise contact corrosion may occur. Replace bolts (3b).  Do not apply <b>any</b> sealant or sealing compound to oil pan (3) and transmission housing (1) 	*BA27.10-P-1002-03A
	<b>Pour in automatic transmission fluid</b>		
15	Mount adapter in the bore of the drain screw and connect oil dispenser	7G-Tronic adapter (NAG2) <a href="#">gotis://S_18.2_04.2</a> Oil dispenser with tank <a href="#">gotis://S_18.2_04.0</a>	
16	Pour in new automatic transmission fluid	 Using the oil dispenser pump approx. 1 l more automatic transmission fluid into the automatic transmission than was drained.  Filling capacity	*BF27.00-P-1001-01C
17	Interrogate automatic transmission fluid temperature using STAR DIAGNOSIS	 The automatic transmission fluid temperature must not exceed the specified value as the overflow pipe (31) in the oil pan (3) is designed for the respective automatic transmission fluid temperature.  On automatic transmissions with chamfered oil pan (3) and white overflow pipe (31) the automatic transmission fluid temperature must be <b>45 °C/113 °F</b> .  On automatic transmissions without chamfered oil pan (3) and black overflow pipe (31) the automatic transmission fluid temperature must be <b>35 °C/95 °F</b> .	
18	Start engine		
19	Shift through "P-R-N-D" several times with the vehicle stationary and the engine idling		
20.1	Bring automatic transmission fluid temperature to <b>45 °C/113 °F</b>	 On automatic transmissions with chamfered oil pan (3) and white overflow pipe (31).	

20.2	Bring automatic transmission fluid temperature to <b>35 °C/95 °F</b>	<b>i</b> On automatic transmissions without chamfered oil pan (3) and black overflow pipe (31).	
21	Allow engine to idle in selector lever position "P"	<b>!</b> The engine must run at idle speed and the respective specified automatic transmission fluid temperature must be reached, at a higher automatic transmission fluid temperature too much automatic transmission fluid will be drained.	
22	Interrogate automatic transmission fluid temperature using STAR DIAGNOSIS	<b>i</b> On automatic transmissions with chamfered oil pan (3) and white overflow pipe (31) the automatic transmission fluid temperature must be <b>45 °C/113 °F</b> . <b>i</b> On automatic transmissions without chamfered oil pan (3) and black overflow pipe (31) the automatic transmission fluid temperature must be <b>35 °C/95 °F</b> .	
23	Detach adapter		
24	Allow excess oil quantity to drain at the specified automatic transmission fluid temperature until only a small quantity still runs out	<b>!</b> The engine must run at idle speed and the respective specified automatic transmission fluid temperature must be reached, at a higher automatic transmission fluid temperature too much automatic transmission fluid will be drained. <b>i</b> On automatic transmissions with chamfered oil pan (3) and white overflow pipe (31) the automatic transmission fluid temperature must be <b>45 °C/113 °F</b> . <b>i</b> On automatic transmissions without chamfered oil pan (3) and black overflow pipe (31) the automatic transmission fluid temperature must be <b>35 °C/95 °F</b> .	
25	Screw drain screw into oil pan (3)	<b>i</b> Replace sealing ring. <b>Nm</b>	*BA27.10-P-1001-03A
26	Turn off engine		
27	Lower vehicle		

**Nm** Oil pan, automatic transmission

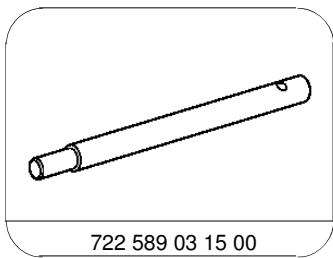
Number	Designation	Transmission 722.9	
BA27.10-P-1001-03A	Drain screw on oil pan	Nm	22
BA27.10-P-1002-03A	Bolt, oil pan to transmission housing	Nm	4
		°	180

**Nm** Torque converter

Number	Designation	Transmission 722.9		
BA27.20-P-1001-01C	Drain plug to torque converter	M8	Nm	10
		M10	Nm	15

**Automatic transmission**

Number	Designation	Transmission 722.9 except 722.93/960/961/ 962/963/964/ 965/966	Transmission 722.960/961/ 962/963/964/ 965/966	Transmission 722.93	
BF27.00-P-1001-01C	Filling capacity	Initial charge	Liters	9	
		during oil change	Liters	9,7	
	Specifications for Operating Fluids	Sheet	BB00.40-P-0236-14A	BB00.40-P-0236-14A	BB00.40-P-0236-14A
		Sheet	-	-	-



Drift