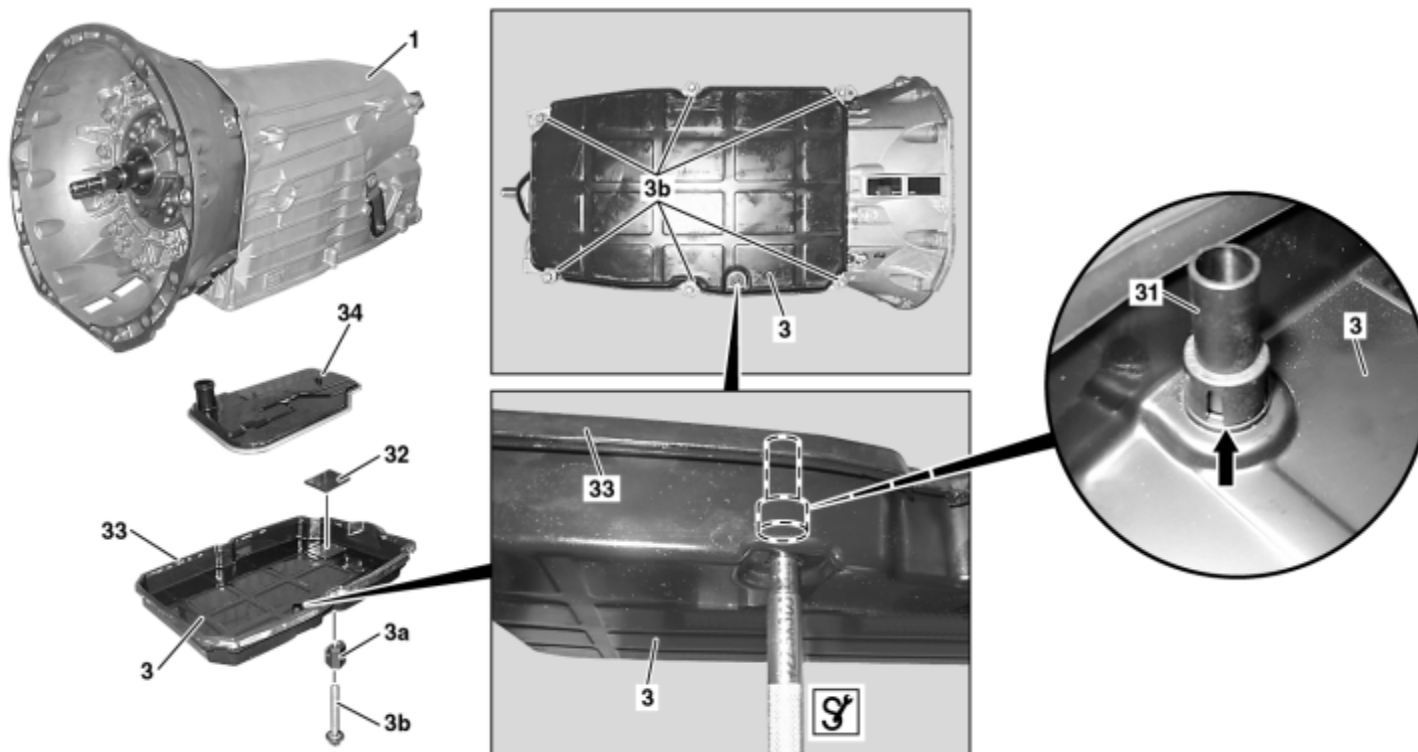


AP27.00-P-2702W

Automatic transmission - oil and filter change

14.10.04

TRANSMISSIONS 722.9














P27.00-2136-09








1 Transmission housing
 3 Transmission oil pan
 3a Sprag
 3a Bolts

31 Overflow pipe
 32 Solenoid
 33 Seal
 34 Transmission oil filter






Modification notes

2.8.05	Reference to modified transmission oil pan on transmission 722.901 added	Step 2.1	
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	Remove		
 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 engine	Secure vehicle to prevent it from moving. Wear closed and snug-fitting work clothes. Do not grasp hot or rotating parts.	AS00.00-Z-0005-01A
 Danger!	Risk of death caused by vehicle slipping or toppling off of the lifting platform.	Align vehicle between the columns of the lifting platform and position the four support plates at the lifting platform support points specified by the vehicle manufacturer.	AS00.00-Z-0010-01A
1	Raise vehicle with lifting platform	 The vehicle must be situated on the lifting platform so that it is level in both the longitudinal and transverse axes.	
2	Remove oil drain screw from the transmission oil pan (3)	 Collect transmission oil which runs out in a suitable container.	
3	Pry overflow pipe (31) off base using a drift (arrow)	 Collect transmission oil which runs out in a suitable container.	
		 Drift	722 589 03 15 00
4	Remove transmission oil pan (3)	 To do this, remove bolts (3b) and remove sprag (3a).	
5	Remove transmission oil filter (34)		
6	Remove overflow pipe (31) from the transmission oil pan (3)		
	Clean		
7	Clean seal (33)	 A seal (33) which is not damaged can be used again.	
8	Clean magnet (32)	 Check magnet (32) for damage and replace if necessary.	
9	Clean the transmission oil pan (3)		
	Install		

			
10	Install new transmission oil filter (34)		
11	Install new overflow pipe (31)	 Press new overflow pipe (31) firmly onto the base (arrow) in the transmission oil pan (3). The overflow pipe (31) must latch noticeably.	
12	Install transmission oil pan (3)	 The sprags (3a) are only authorized for transmission 722.9 and may not be mixed up with other sprags (3a) otherwise contact corrosion can occur. Replace bolts (3b).	
			BA27.10-P-1002-03A
	Adding transmission oil		
13	Mount adapter in the bore of the oil drain screw and connect oil dispenser	 The adapter can be obtained from two manufacturers.	
		Adapter NAG 2, Deutsche Teclamit 2000	WE58.40-Z-1001-17A
		Adapter NAG 2, Flaco Geräte	WE58.40-Z-1002-17A
		Oil dispenser, mobile with calibrated meter	WE58.40-Z-1003-17A
		Oil dispenser, mobile with meter not capable of calibration	WE58.40-Z-1004-17A
14	Fill with transmission oil	 With the oil dispenser pump approx. 1 l more transmission oil into the transmission than was drained.	
		 Filling capacity	BF27.00-P-1001-01C
		Oil dispenser, mobile with calibrated meter	WE58.40-Z-1003-17A
		Oil dispenser, mobile with meter not capable of calibration	WE58.40-Z-1004-17A
15	Call up the transmission fluid		

	temperature using STAR DIAGNOSIS	i On transmissions with chamfered transmission oil pan (3) and white overflow pipe (31) the transmission oil temperature must be 40 °C.	
		i On transmissions without chamfered transmission oil pan (3) and with black overflow pipe (31) the transmission oil temperature must be 30 °C	
		STAR DIAGNOSIS diagnosis system	WE58.40-Z-1013-06A
16	Start engine and allow to run in selector lever position "P"		
17	Shift through "P-R-N-D" several times with the vehicle stationary and the engine idling		
18	Allow engine to idle in selector lever position "P"		
19	Call up the transmission fluid temperature using STAR DIAGNOSIS	i The transmission oil temperature must not exceed the specified value in each case as the overflow pipe (31) in the transmission oil pan (3) is designed for the respective transmission oil temperature.	
		i On transmissions with chamfered transmission oil pan (3) and white overflow pipe (31) the transmission oil temperature must be 40 °C.	
		i On transmissions without chamfered transmission oil pan (3) and with black overflow pipe (31) the transmission oil temperature must be 30 °C	
		STAR DIAGNOSIS diagnosis system	WE58.40-Z-1013-06A
20	Detach adapter		

21	Allow the surplus oil quantity to drain out at the specified transmission oil temperature until a small quantity still drains out	 It is essential that the engine be running at idle, 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.	
		 On transmissions with chamfered transmission oil pan (3) and white overflow pipe (31) the transmission oil temperature must be 40 °C.	
		 On transmissions without chamfered transmission oil pan (3) and with black overflow pipe (31) the transmission oil temperature must be 30 °C	
22	Screw oil drain screw into the transmission oil pan (3)	 Replace sealing ring.	
			BA27.10-P-1001-03A
23	Turn off engine		
24	Lower vehicle		

 **Oil pan, automatic transmission**

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

 **Automatic transmission**

Number	Designation		Transmission 722.9
BF27.00-P-1001-01C	Filling capacity	Initial charge	Liters 9

	Oil change	Liters	-
	Specifications for Operating Fluids	Sheet	BB00.40-P-0236-12A
		Sheet	-



722 589 03 15 00

Drift

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
WE58.40-Z-1001-17A	Adapter NAG 2, Deutsche Tecalemit 2000 GmbH&CO.KG Postfach 120128 D-33651 Bielefeld, Germany, order number S03043
WE58.40-Z-1002-17A	Adapter NAG 2, Flaco Geräte GmbH Postfach 5051 33278 Gütersloh, order number 42 500 520
WE58.40-Z-1003-17A	Oil dispenser, mobile with calibrated meter, Flaco Geräte GmbH D-33334 Gütersloh, Germany, order number 40 213 300
WE58.40-Z-1004-17A	Oil dispenser, mobile with meter not capable of calibration, Flaco Geräte GmbH 33334 Gütersloh, order number 40 213 400