

Transmission 700.4 in model 190, 197

# TRANS AXLE

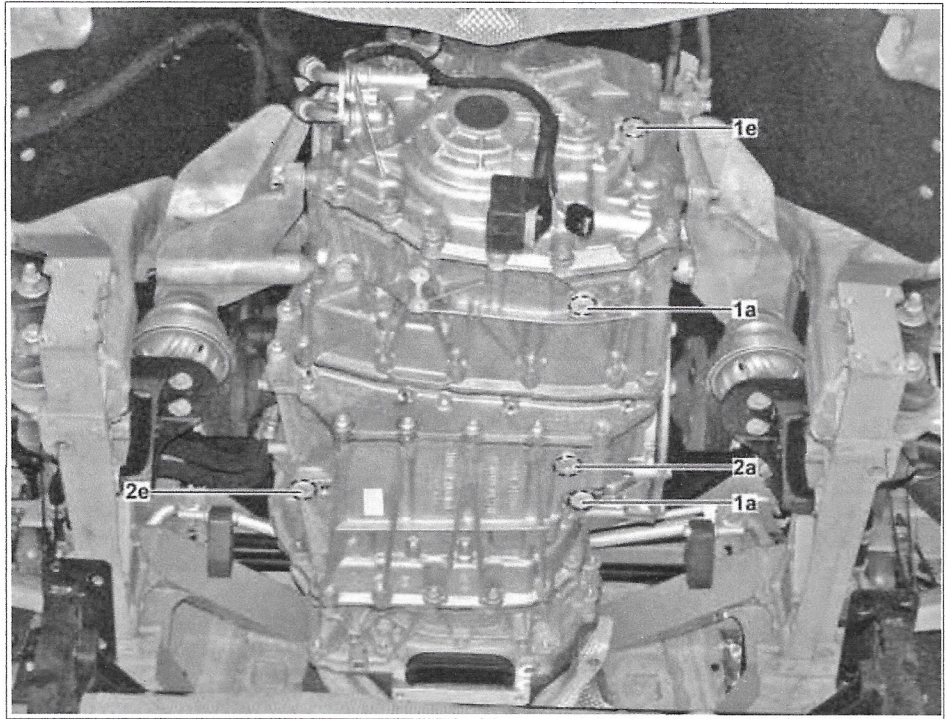
Shown on model 197

- 1a Lubrication oil circuit drain screw
- 1e Lubrication oil circuit filling screw
- 2a Hydraulic oil circuit drain screw
- 2e Hydraulic oil circuit filling screw

LAUNCH WIS  
 GOTO MSS WRENCH  
 ENTER VIN  
 CHOOSE LAST  
 OPTION  
 ALL MAINTENANCE  
 DOCS

700-589-00-90-00  
 002-990-08-17  
 001-990-87-17

SHELL-DET-F3      SHELL-SPIRAX



P27.00-2335-06

⚠ Warning	<b>Risk of injury.</b> 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
⚠ Warning	<b>Risk of accident</b> from vehicle starting off by itself when engine running. <b>Risk of injury</b> (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
	<b>Risk of death</b> 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	<b>Risk of injury</b> to skin or eyes from hydraulic fluid spraying out under pressure. <b>Risk of poisoning</b> from swallowing hydraulic fluid.	Depressurize hydraulic system completely before starting any work on it. Wear protective clothing and safety glasses.	AS00.00-Z-0013-01A
	Notes on self-locking nuts and bolts		AH00.00-N-0001-01A
	General information on repair work on transmission		AH27.00-P-1000-01RQ
	<b>Preparatory activity</b>		
1 🔧 AD 🔧 AD	Connect diagnostic system	Transmission 700.4 in model 190 Transmission 700.4 in model 197	AD00.00-P-2000-04B AD00.00-P-2000-04A
2	Move automatic transmission to neutral position		
3	Switch electronic ignition lock control unit to position "0"		
4 🔧 AR 🔧 AR	Lift vehicle on vehicle lift	Vehicle must be raised with diagnostic system connected. Transmission 700.4 in model 190 Transmission 700.4 in model 197	AR00.60-P-1000RG AR00.60-P-1000RQ
🔧	<b>Remove</b>		
5 🔧 AR	Remove center underfloor covering	Transmission 700.4 in model 190, 197 Transmission 700.4 in model 190	AR61.30-P-1001RG
	<b>Drain transmission oil from lubricating oil circuit</b>		
6 DIFF	Remove lubricating oil circuit filling screw (1e)		

7	Remove lubricating oil circuit drain plugs (1a) and drain transmission oil		
8	Replace sealing rings and tighten lubricating oil circuit drain plugs (1a)	Drain screw to transmission housing	*BA27.40-P-1001-01F
	<b>Add transmission oil to lubricating oil circuit</b>		
9	Fill with transmission oil	Pour in gear oil until it escapes at the filler opening. Allow excess transmission oil to drain completely. Otherwise overfilling may cause damage to the transmission. Gear set GL 5	*BF27.00-P-1002-01G
10	Replace sealing ring and tighten lubricating oil circuit filling screw (1e)	Filling screw to transmission housing	*BA27.40-P-1002-01F
11	Allow engine to run for 1 minute at idle speed	To fill lubricating oil circuit transmission oil.	
12	Switch off engine		
13	Read out hydraulic fluid temperature using diagnostic system	Transmission 700.4 in model 190 Transmission 700.4 in model 197 As the transmission oil temperature in the lubricating oil circuit cannot be read out, the hydraulic fluid temperature is used as a reference. Hydraulic fluid temperature must not exceed 40 °C or 104 °F. ↓ Allow automatic transmission to cool down, if necessary.	AD00.00-P-2000-04B AD00.00-P-2000-04A
14	Remove lubricating oil circuit filling screw (1e) again and pour in transmission oil	Pour in gear oil until it escapes at the filler opening. Allow excess transmission oil to drain completely. Otherwise, overfilling may cause damage to the transmission. Gear set GL 5	*BF27.00-P-1002-01G
15	Replace sealing ring and tighten lubricating oil circuit filling screw (1e)	Filling screw to transmission housing	*BA27.40-P-1002-01F
	<b>Drain transmission oil from hydraulic oil circuit</b>		
16	Remove hydraulic oil circuit filling screw (2e)		
17	Remove hydraulic oil circuit drain plug (2a) and drain transmission oil	Collect transmission oil in drain pan.	
18	Measure and note the transmission oil quantity drained.		
19	Replace sealing ring and tighten hydraulic oil circuit drain plug (2a)	Drain screw to transmission housing	*BA27.40-P-1001-01F
	<b>Add transmission oil to hydraulic oil circuit</b>		
20	Fit adapter to bore of hydraulic oil circuit filling screw (2e) and connect oil dispenser	Adapter	*700589009000
21	Add new transmission oil	Using oil dispenser, add approx. 1 l more transmission oil to automatic transmission than was drained off. Hydraulic ATF	*BF27.00-P-1001-01G
22	Start engine and shift through all gears several times	At idle speed of engine.	
23	Read out transmission oil temperature of hydraulic oil circuit using diagnostic system	The transmission oil temperature of the hydraulic oil circuit must be approx. 60 °C or 140 °F. Transmission 700.4 in model 190 Transmission 700.4 in model 197	AD00.00-P-2000-04B AD00.00-P-2000-04A
24	Detach adapter		
25	Allow excess oil quantity to drain off until only a slight quantity still drains out		
26	Replace sealing ring and tighten hydraulic transmission circuit filling screw (2e)	Filling screw to transmission housing	*BA27.40-P-1002-01F
	<b>Finishing activity</b>		
27	Switch off engine		
28	Install underfloor paneling in center	Transmission 700.4 in model 190, 197 Transmission 700.4 in model 190	AR61.30-P-1001RG

29 AR AR	Lower vehicle with lifting platform	Transmission 700.4 in model 190 Transmission 700.4 in model 197	AR00.60-P-1000RG AR00.60-P-1000RQ
30	Disconnect diagnostic system		

**Nm** Housing

Number	Designation		Transmission 700.4 in model 190	Transmission 700.4 in model 197
BA27.40-P-1001-01F	Drain screw to transmission housing	Nm	25	25

**Nm** Housing

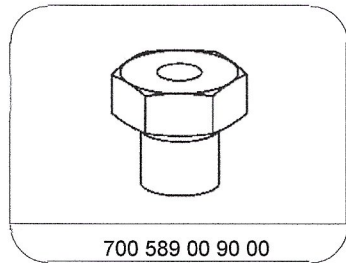
Number	Designation		Transmission 700.4 in model 190	Transmission 700.4 in model 197
BA27.40-P-1002-01F	Filling screw to transmission housing	Nm	25	25

**Automatic transmission**

Number	Designation			Transmission 700.4
BF27.00-P-1001-01G	Hydraulic ATF	Filling capacity of transmission	Liter	7
		Filling capacity of heat exchanger	Liter	0,8
		Sheet		BB00.40-P-0236-25A

**Automatic transmission**

Number	Designation			Transmission 700.4
BF27.00-P-1002-01G	Gear set GL 5	Filling capacity of transmission	Liter	2,9
		Filling capacity of heat exchanger	Liter	0,82
		Sheet		BB00.40-P-0236-26A



Adapter