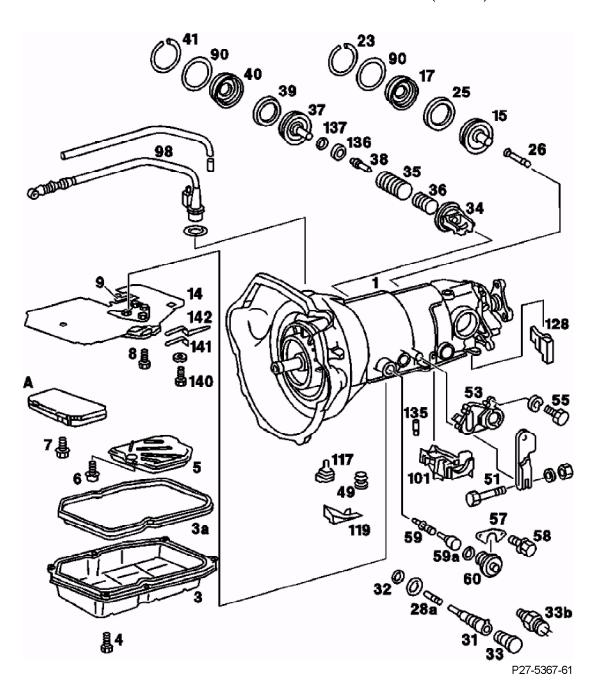
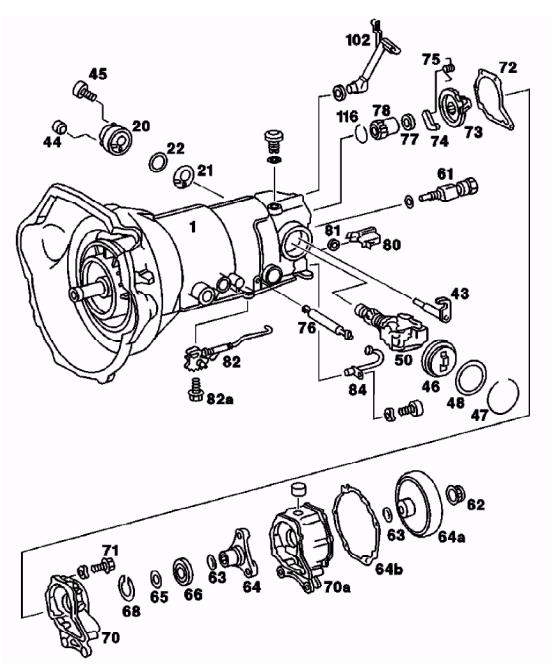
Operation no. of operation texts and work units or standard texts and flat rates: (07-4010)

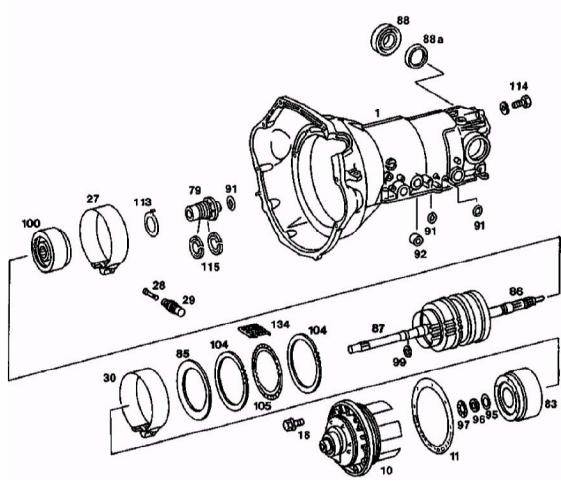


Control pressure cable (98)	Slacken, remove and attach locking device with screwdriver (item 1)	
Transmission (1)	Clamp on assembly trestle 116 589 06 59 00 and mounting plate 126 589 10 63 00 (item 2).	
Oil pan (3)	Remove, install. Hexagon bolts 8 Nm (item 3).	
Oil filter (5)	Remove, install. Cross-head bolts 4 Nm	
	(item 4).	
Shift valve housing (A)	Remove, install (27-400), 8 Nm, note different	
Cimit valve heading ( )	length of bolts (item 5).	
Leaf spring (142) and bracket (141)	Remove and install with hexagon bolt (140),	
	8 Nm (item 6).	
Lower cover (13) with intermediate plate (14) and oil	Remove, install. Bolts with washers (8), 8 Nm. Raise	
Pipe (9)	complete unit and dismantle lower cover (27-435).	
• • •	Check clearance between shut-off plunger and stop	
	for spring linkage (0.4-1.0 mm) (item 7).	
One-way valve (49), brake band guide B2 (101), locating pin (135), oil deflector (119), temperature throttle (117)	Remove, install (item 8).	
Filler piece (128)	If fitted, check that it is secure.	
Brake band plunger cover B2 (17)	Remove by extracting circlip (23)	
, ,	(item 9).	
Brake band plunger B2 (15)	Remove, install. When installing, adjust clearance	
	"L" with thrust pin (26) 5.5 - 6 mm (item 127).	
Brake band plunger B1 (37)	Remove and install with assembly device	
	201 589 03 59 00. Remove circlip (41), cover (40)	
	and return springs (35, 36). When installing, adjust	
	clearance "L" to 1.8 - 2.4 mm as described in items	
	118 to 124. Check measuring device 126 589 06 21	
	00, lip sealing ring (39) (items 12-15).	
Brake band guide B1 (34)	Remove, install (item 16).	
Thrust element of thrust bearing B1 (31)	Remove, install; unscrew, screw on screw plug	
	(33) or transmission overload protection switch	
	(33b), 70 Nm. Replace O-rings (32) (item 17).	
Range selector lever (52)	Pull off by unscrewing hexagon bolt (51), 8 Nm	
	(item 19).	
Starter lockout switch (53)	Remove by unscrewing bolts (55), 8 Nm. Locate	
	when installing (see item 20).	
Vacuum unit (60)	Remove and install with retaining plate, 8 Nm.	
	Remove and insert modulating pressure control	
	valve (59) and heat expansion pin (59a) (items	
	21,22).	



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Kickdown solenoid valve (61)	Unscrew, screw on, 20 Nm (items 23, 111).	
Joint flange (64), or internally-geared	Remove, install. Slacken twelve-point collared nut	
wheel (64a)	(62), 120 Nm, lock (items 24, 110).	
	Wrench socket 126 589 02 09 00.	
Washer (65)	Remove (item 25).	
Rear transmission cover (70) or adapter housing	Unscrew, screw on hexagon bolts (71), 13 Nm (8.8),	
(70a)	or 28 Nm (12.9). Then remove cover by tapping	
	gently with a hammer and dismantle (27-440).	
	Check seal (items 26, 27, 107).	
With electronic speedometer, parking lock gear	Remove, install (items 29, 103, 104).	
(73) with rotor, parking lock pawl (74) and		
spring (75)		
Oil pipe (102) for mechanical speedometer	Disconnect, connect (item 30).	
drive		
Parking lock gear (73), parking lock pawl (74) and	Remove, install (items 30, 103, 104).	
spring (75)		
Shim (77)	Determine thickness by measuring axial play of	
	output shaft (item 105).	
	Attachment126 589 04 31 00	
Displies and a (00) and a line (04)	Measuring sleeve126 589 06 14 00	
Plastic guide (80) and roller (81)	Pull off, push on (items 31, 100 and 101).	
Spring linkage with notched plate (82)	Unscrew, screw in hexagon socket bolt (82a), then	
	pull out shaft (76) and remove notched plate (item	
Oil pine (94)	32).	
Oil pipe (84)	Remove, install, 8 Nm (items 33, 97).	
Secondary pump (20)	Remove, install. Nut (44) 6 Nm, allen bolts (45) 8	
	Nm, (items 35, 96). Remove O-ring (22) and	
Contributed to company (FO)	intermediate plate (21) (items 36, 94).	
Centrifugal governor (50)	Pull out after removing circlip (47) and cover (46),	
	insert. To do this, the axial retainer (43) must be	
Avial retainer (42) helical geor (70) and are an	swiveled back (items 37 - 38, 90 - 92).	
Axial retainer (43), helical gear (78) and snap	Remove, install (items 39 - 41, 88, 89).	
ring (116)		

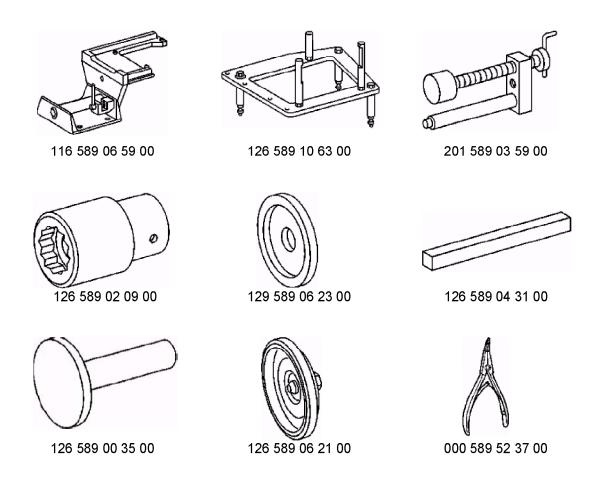


P27-0153-59

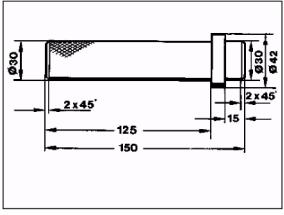
Front transmission cover (10)	Remove, install complete. Bolts with washers (18)
	13 Nm, dismantle ( <u>27-630</u> ), note location of teflon
	rings. Before installation, measure axial clearance
	"B" for clutch K1 and adjust.
	0.4 - 0.6 mm (see item 83). Then insert shim (95),
	friction ring (96) and axial bearing into clutch K1.
Gear set (69)	Remove complete. When installing, adjust
	clearance "L" = 1.5 - 2.0 mm of multiple-disc clutch
	B3 (item 76). Insert discs (133) and belleville spring
	(85) (item 44).
Brake band B1 (30) and clutch K1	Remove and install with gear set (see items 45, 78).
Damping spring (134)	Remove, install (item 47, 74).
Thrust pin (28)	Remove, install (item 48, 125).
Clutch K2 (100)	Pull out; when installing, push onto gear set and
	push in with gear set (items 49, 69).
Brake band B2 (27)	Remove, install by compressing brake band as
	much as possible (68) (items 50, 68).
Support disc (113)	Remove, install (item 66).
Thrust element B2 (29)	Pull out, check and insert with tab upwards
. ,	(items 51, 64).

Support flange (79)	Remove, install. Bolts (114) 11 Nm. Stick teflon rings (115) into groove with grease (items 54, 60 - 62).
Guide ring (88a) and lip sealing ring (88)	Check and replace if necessary. Drift is shop-made tool (item 56).
O-rings (91, 92), sealing rings (92) and aluminum sealing rings (90)	Check and replace if necessary (items 57 - 59).

# Special tools



**Shop-made tool** Drift



P27-0156-13

# Total axial play, in clutch K1 and K2 Clearance "L" of multiple-disc brake B3 1.5-2.0 Clearance between linkage stop and shut-off plunger in spring linkage Clearance, brake band B1 1.8-2.0 Clearance, brake band B2 5.5-5.7 Axial play of output shaft "C" 0.4+0.1

mm

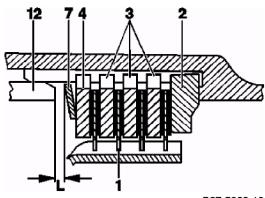
## **Dimensions**

Adjustment data

Shims, axial bearing K1	0.1; 0.2; 0.5
Shims, helical gear/parking lock gear	0.1; 0.2; 0.5
Thrust pin, brake band plunger B2	47.2; 48.0; 48.8
	and 49.6
Washers for thrust pin, brake band plunger B1	0.5; 1.0 and 1.5

Multiple-disc sequence for LB3 Plunger side

Inner multiple-discs
 Outer multiple-discs
 Disk spring
 Above plunger LB3



P27-5322-13

### **Disc versions**

Designation	Item No.	Thickness in mm
Inside discs	1	2.1
Outside discs	2	7.7
	3optional for compensating play	2.3 or 2.8
	4	2.8; 3.3; 3.8

### Note

During assembly, particular care must be taken when handling the sealing surface of the oil distributor plate cast in the transmission housing. The utmost cleanliness must also be ensured. The transmission will only function properly if there is no dirt on the transmission components or in the oil circuit. For this reason, always remove sealant residues after dismantling, wash all parts carefully, flush out oil channels and blow clean with compressed air.

Rubber seals must not be permitted to come into contact with benzine, which may attack the rubber. Use alcohol to clean rubber parts.

Also ensure that the parts do not come into contact with woolen cloths, as any fuzz adhering to the parts may result in malfunctions.

In vehicles with 4MATIC, the adapter housing with internal gear is fitted in place of the rear transmission cover and 3-arm flange. The repair procedure is largely identical for both versions.