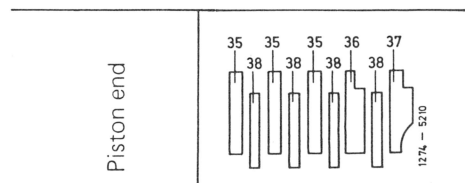


Clutch Plates

Trans- mission	722.004	
	thickness	item No..
Outside plates	3.0 or 3.5 optional	35
	4.5 or 5.0 optional	36
	5.0	37
Inside plates	2.1	38
Compen- sating washer	—	—

Clutch Plate Diagram



Clearance "L" of Plate Clutch in mm

	1.0 ± 0.2
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Special Tool

Mandrel	198 589 03 39 00
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Note

The number of compression springs for the clutch piston differs. When new compression springs are required, always install the same number of springs.

Disassembly

- 1 Push straight circlip (20) out of groove with a screw driver and remove (Fig. 1).

27.2 Disassembly, Reassembly and Measuring of Clutch K 2

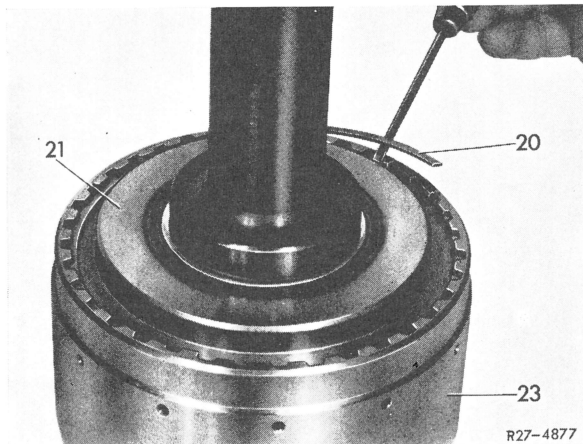


Fig. 1

20 Circlip
21 Supporting flange
22 Brake band drum B 2

2 Remove supporting flange (21) with piston out of brake band drum B 2 (23). (Fig. 1).

Attention! Keep supporting flange and piston together, so that the piston cannot fall out.

3 Remove all return springs (28) and plate assembly (24) from brake drum (23) (Fig. 2).

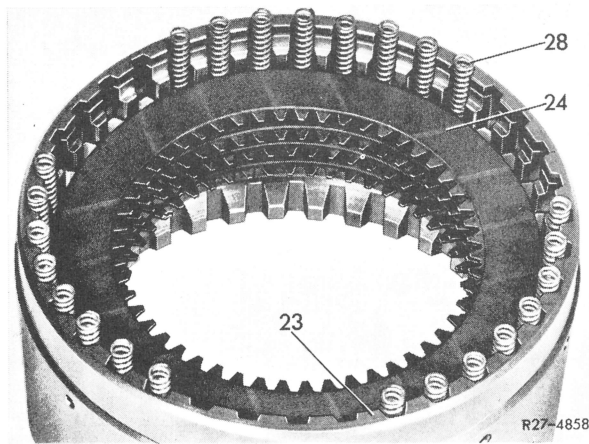


Fig. 2

23 Brake drum
24 Plate assembly
28 Compression springs

4 If required, push undulated circlip (25) with a screw driver out of groove and remove (Fig. 3).

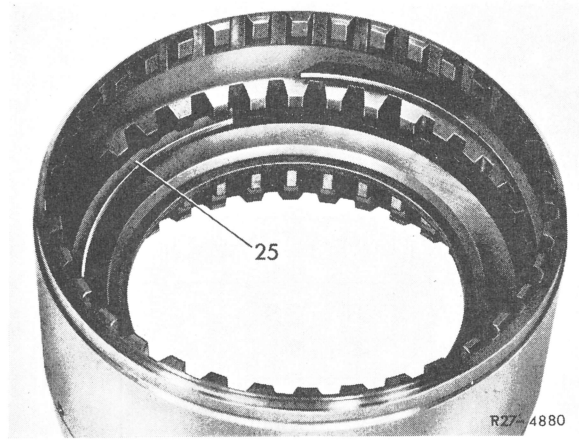


Fig. 3

25 Undulated circlip

Attention! Circlips (20 and 25) are different from each other and should not be confused (Fig. 1 and 3).

5 Remove compensating washer (33) with outside plate (32) (Fig. 4) and guide ring (34) for compression springs (Fig. 5).

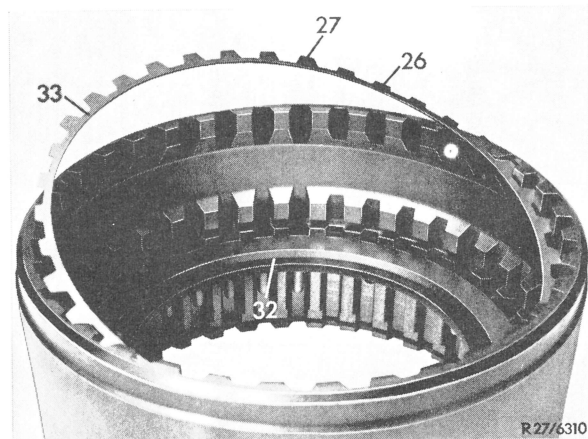


Fig. 4

26 Short lug
27 Long lug
32 Outside plate
33 Compensating washer

6 Compress circlip (15) with pointed pliers and lift off roller clutch outer race (14) (Fig. 13).

7 Lift piston (22) out of supporting flange (21) (Fig. 6).

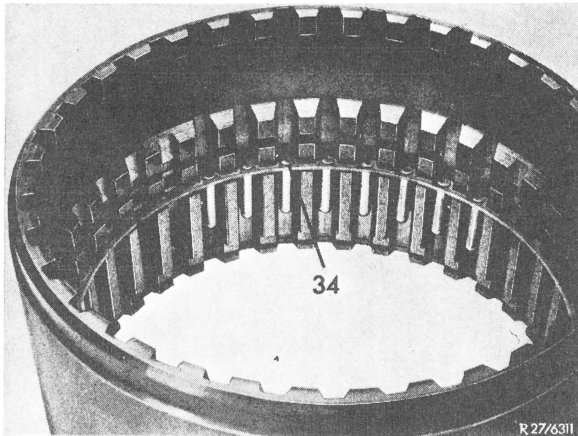


Fig. 5
34 Guide ring for compression springs

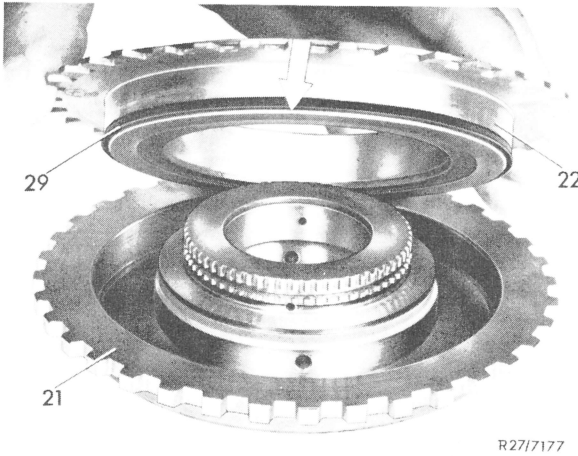


Fig. 6
21 Supporting flange 29 Lip sealing ring
22 Piston

Assembly

8 Insert guide ring (34) for compression springs (Fig. 5) outside plate (32) and compensating washer (33) (Fig. 4).

9 Insert undulated circlip (25) into brake drum B 2 (23) (Fig. 3). The circlip should be tight in groove; assist with screw driver, if required.

The resilient circlips of clutches K 1 and K 2 are different in their spring force and should therefore not be confused.

10 Assemble plate assembly for clutch K 2 according to clutch plate diagram. Immerse new lining plates shortly in an ATF-oil bath.

11 Insert plate assembly into outside plate carrier, with the offset end of the outside plates (35) facing downwards (Fig. 7).

12 Place clutch piston on plate assembly and determine dimension "a" from upper edge of outside plate carrier to clutch piston using depth gauge (Fig. 8).

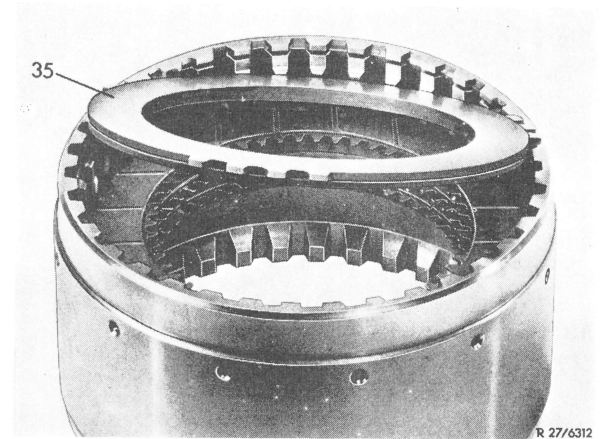


Fig. 7
35 Outside plate

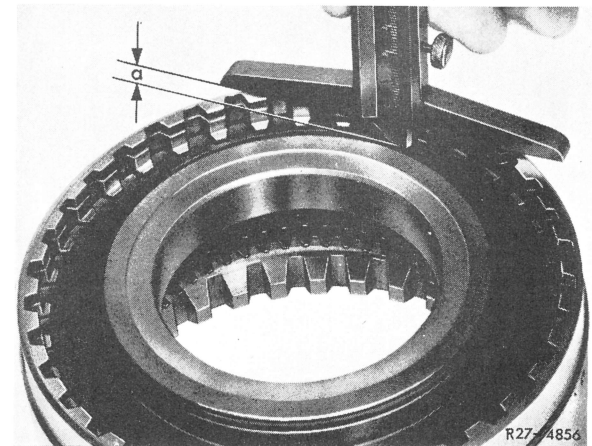


Fig. 8

13 Determine dimension "b" from top edge of outside plate carrier to contact surface of supporting flange using depth gauge (Fig. 9).

27.2 Disassembly, Reassembly and Measuring of Clutch K 2

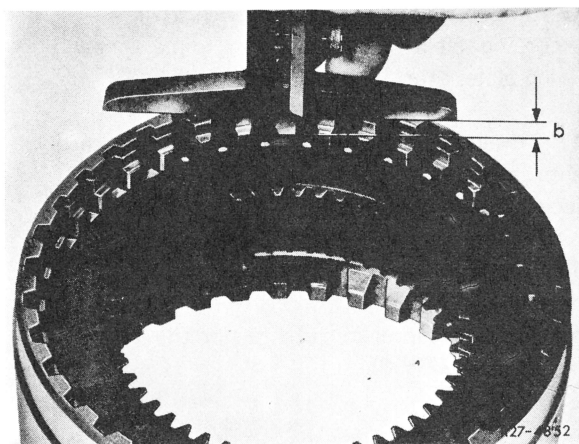


Fig. 9

14 Clearance (release play) "L" of clutch K 2 results from $a-b = "L"$.

15 If required, adjust clearance by pertinent selection of compensating washers or by adjusting outside plates.

16 Place all return springs on guide pins "b" (Fig. 10).

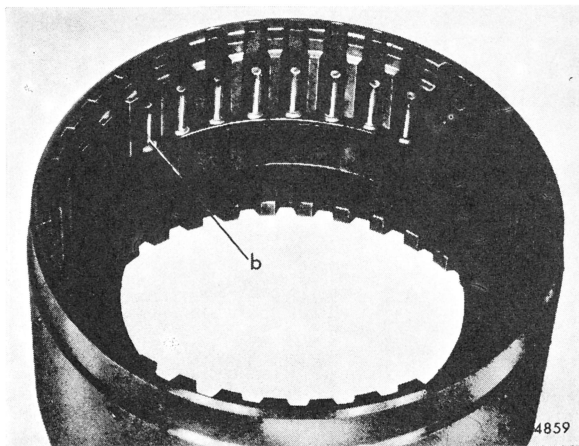


Fig. 10

b Guide pins

17 Install new lip sealing ring (30) into supporting flange (21). The lip sealing ring should rest correctly in groove (31) and the lip should face downwards (in direction of arrow) (Fig. 11).

18 Insert lip sealing ring (29) into groove of clutch piston (22). The sealing lip should face downwards in direction of arrow (Fig. 6).

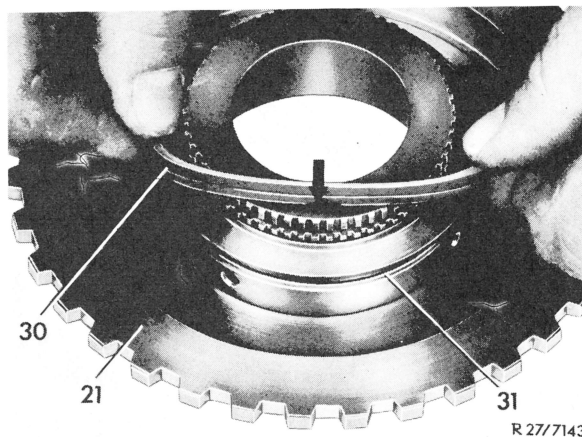


Fig. 11

21 Supporting flange
30 Lip sealing ring

31 Groove

19 Lubricate lip sealing rings (29 and 30). Insert piston (22) into supporting flange. Use a pencil or ball pin to push sealing lip into supporting flange, then push-in piston without canting (Fig. 11 and 12).

Attention! When inserting the lip sealing rings into the groove and when pushing into the supporting flange, do not use pointed or sharp-edged tool.

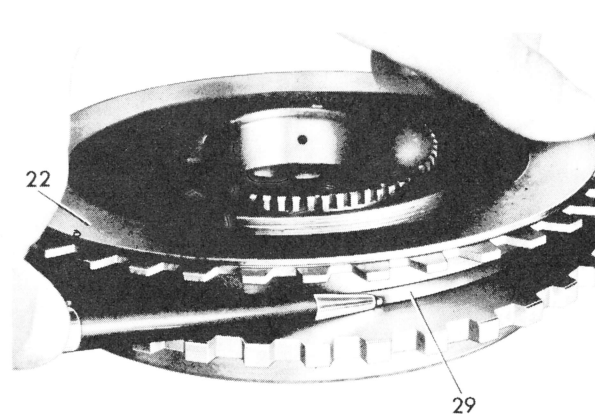


Fig. 12

22 Clutch piston
29 Lip sealing ring

20 Insert circlip (15) into groove in supporting flange, compress with pointed pliers and insert free roller clutch outer race (14) (Fig. 13).

Caution! No compensating washer is required. The idle travel is adjusted by means of the outside plates available 3,0–3,5, 4,0 and 4,5 mm thick.

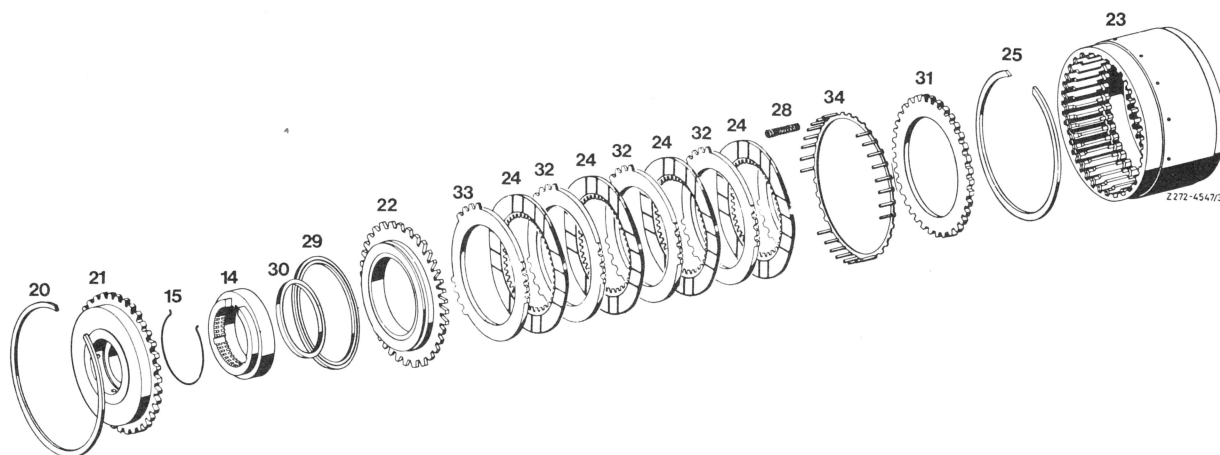


Fig. 14

Clutch K 2

14 Roller clutch outer race	23 Brake band drum	30 Lip sealing ring
15 Circlip	24 Inside plate	32 Outside plate
20 Circlip	25 Undulated circlip	33 Outside plate
21 Supporting flange	28 Return springs	34 Guide ring
22 Piston	29 Lip sealing ring	