42–530 Removal and installation of brake shoes of parking brake

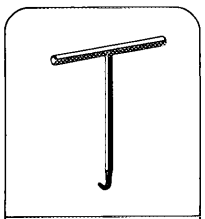
Data

Brake shoe dia.	160–0.2
Brake disk inside dia.	160 + 0.2
Brake shoe width	25

Lubricants

Molykote Paste U	Molykote Paste G Rapid	Liqui-Moly Paste 36

Special tools



116 589 01 62 00

112 589 09 61 00

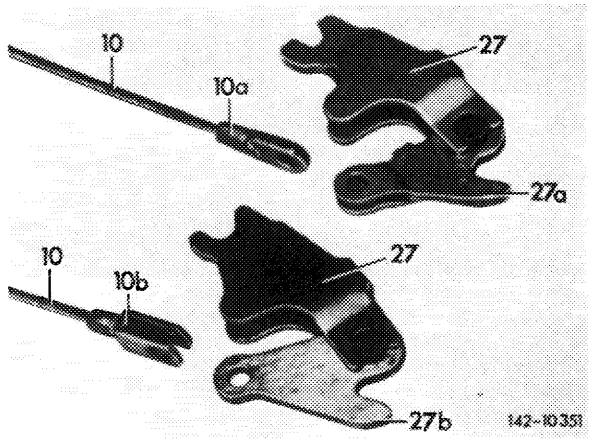
Conventional tool

Allen wrench double hex, 1/2" square, 120 mm long	e.g. Stahlwille, D–5600 Wuppertal Order No. 2054/8

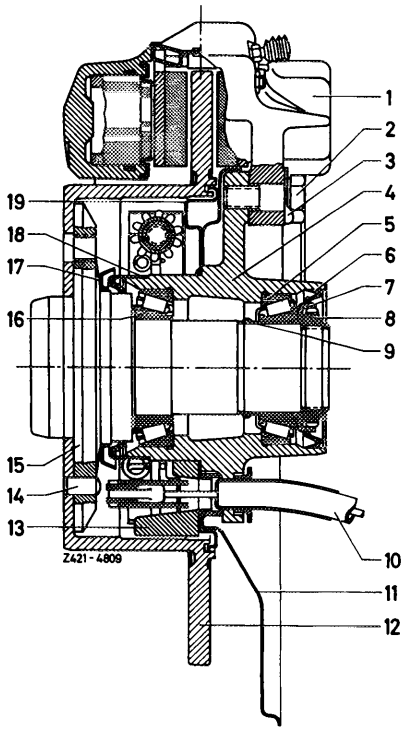
Note

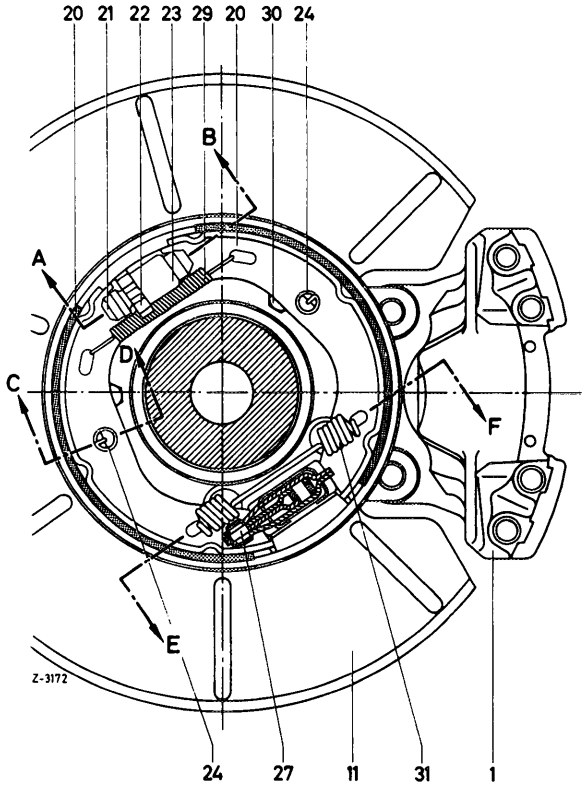
Starting 1975 a modified expanding lock with solid draw plate is installed. This will change the rear brake cable control. The end piece is now designed as a fork head. The old and the new version of the expanding lock and the brake cable control cannot be interchanged.

The 1st version spreader lock was not available since autumn of 1976.

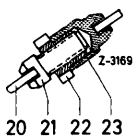


10 Brake cable
10a Brake cable eye
10b Swivel-type end piece of brake cable
27 Spreader lock
27a Forked pull bar
27b Massive pull bar

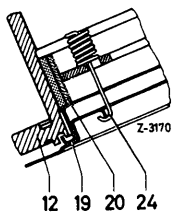




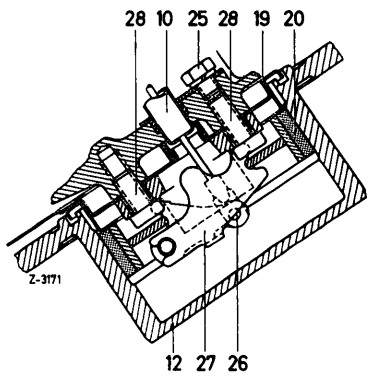
Schnitt A - B



Schnitt C - D

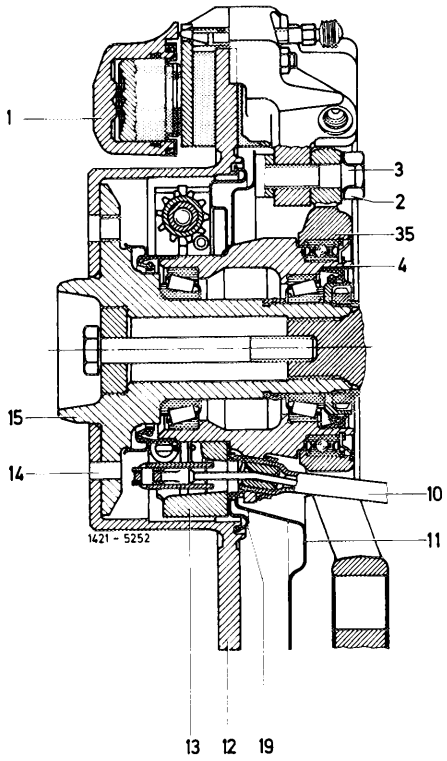


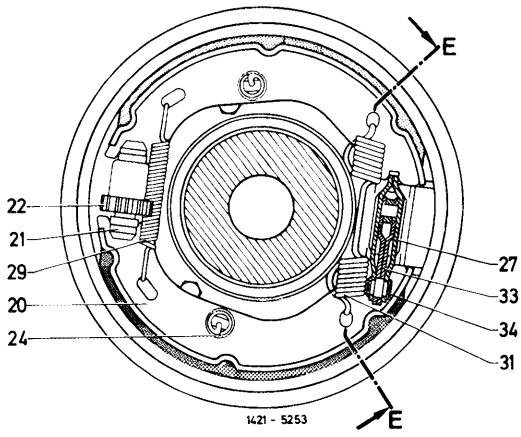
Schnitt E - F



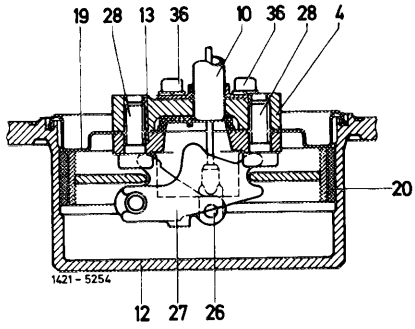
Diagonal swing axle layout

1 Fixed caliper
2 Hexagon
3 Lock plate
4 Wheel carrier
5 Inner taper roller bearing
6 Inner radial oil seal
7 Sealing ring
8 Slotted nut
9 Spacer
10 Brake cable
11 Guard
12 Brake disk
13 Brake anchor plate
14 Dowel pin
15 Rear axle shaft flange
16 Outer taper roller bearing
17 Dust cap
18 Outer radial oil seal
19 Cover ring
20 Brake shoes
21 Pressure piece
22 Adjusting wheel
23 Pressure sleeve
24 Contact pressure spring
25 Hexagon head bolt with lock washer
26 Bolt
27 Spreader lock
28 Socket head bolt
29 Upper return spring
30 Hexagon head bolt with lock washer
31 Lower return spring





Schnitt E-E



Diagonal swing axle with initial torque compensation layout

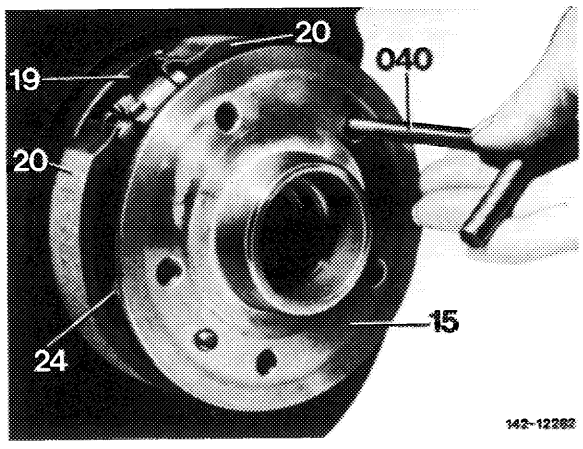
1 Fixed caliper
2 Hexagon head bolt
3 Lock plate
4 Wheel carrier
10 Brake cable
11 Guard
12 Brake disc
13 Brake anchor plate
14 Dowel pin
15 Rear axle shaft flange
19 Cover ring
20 Brake shoes
21 Pressure piece
22 Adjusting wheel
23 Pressure sleeve
24 Contact pressure spring
26 Bolt
27 Pressure bar
28 Socket head bolt
29 Return spring
31 Return spring
33 Operating lever
34 Pivot pin
35 Caliper carrier
36 Socket head bolt with lock washer

Removal

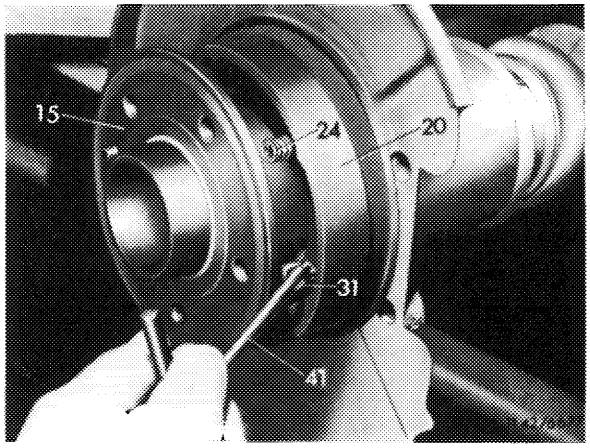
1 Remove brake disc (42–228).

2 Turn rear axle shaft flange (15) until one threaded hole faces spring (24). Now compress spring a little with installation tool (040), turn tool by approx. 90° finally detach spring at guard and remove.

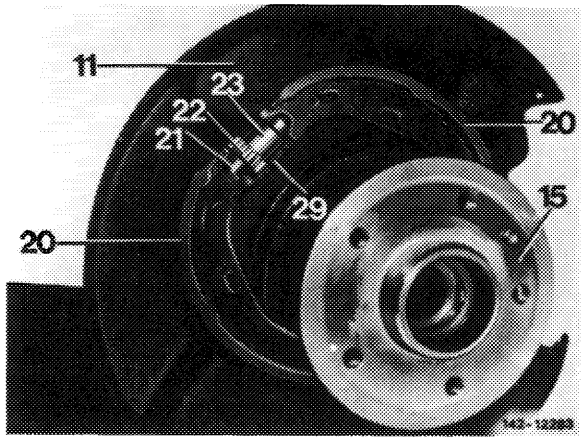
3 Also remove springs on other brake shoes.



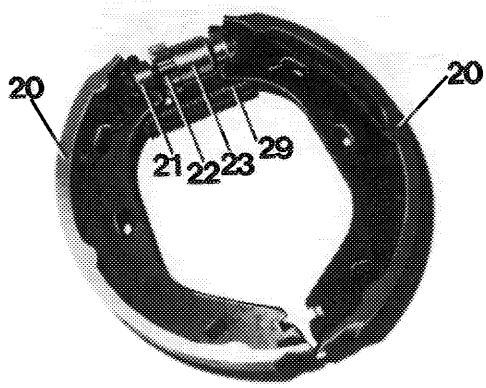
4 Detach return spring (31) from brake shoe (20) with removal and installation tool (41).



5 Pull both brake shoes (20) far enough apart, that they can be removed over rear axle shaft flange (15).



6 Detach return spring (29) from brake shoes (20) and remove adjusting device (21 through 23).



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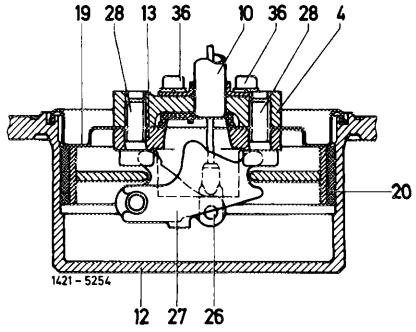
7 Press bolt (26) off of spreader lock (27) and remove spreader lock from brake cable (10).

Schnitt E-E



4 Wheel carrier
10 Brake cable
12 Brake disc
13 Brake anchor plate
19 Cover ring
20 Brake shoes
26 Bolt
27 Spreader lock
28 Socket head bolt
36 Socket head bolt with lock washer

Installation

8 Lubricate all bearing and sliding surfaces on spreader lock with specified lubricant (see table). Mount brake cable (10) on spreader lock (27) with bolt (26). Then press spreader lock to cover ring (19).

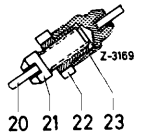
9 Check both hex socket screws for fastening brake carrier (13) for tightening torque 50 Nm.

Note: Self-locking hex socket screws will be installed starting October 1978. **Hex socket screws may be used only once.** Use a 7 mm hex or double hex socket wrench (Allen wrench) for tightening and release.

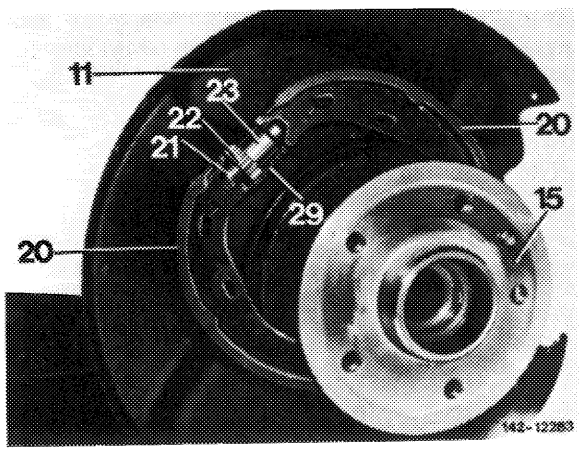
10 Lubricate threads of pressure piece (21) and cylindrical part of adjusting wheel (22) with specified lubricant (see table). Assemble adjusting device and turn it back all the way.

20 Brake shoe
21 Pressure piece
22 Adjusting wheel
23 Pressure sleeve

Schnitt A - B



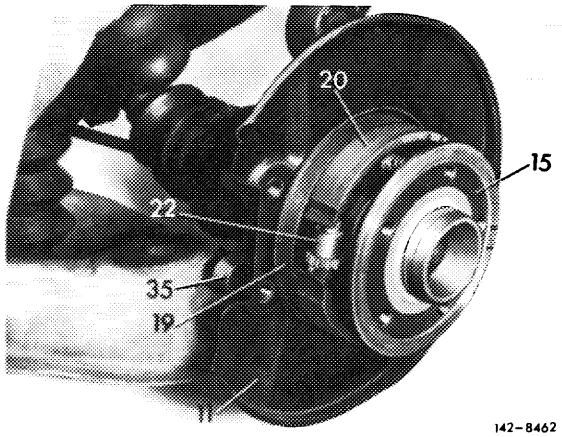
11 Install adjusting device (21 through 23) in both brake shoes, that adjusting wheel (22) of diagonal swing axle faces forward.



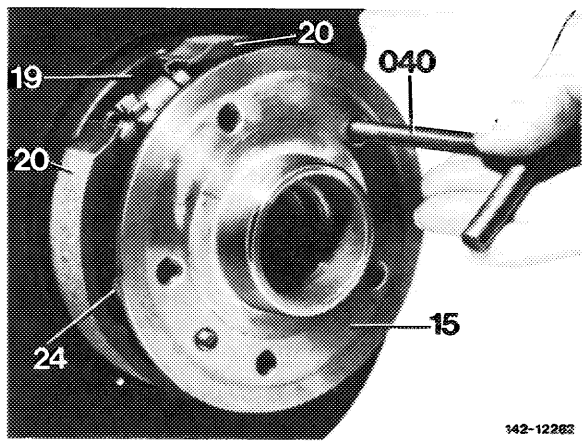
12 Adjusting wheel (22) of diagonal swing axle with starting torque compensation must face down.

13 Attach return spring (29) in both brake shoes.

14 Pull brake shoes (20) apart, guide them over rear axle shaft flange (15) and attach them in spreader lock.

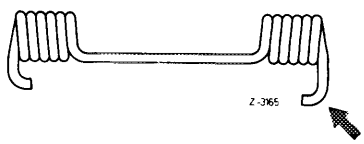


15 Install spring (24) in brake shoes (20) from side. Run in installation tool (040) through one threaded hole of rear axle shaft flange (15), then compress spring a little, turn by 90° and attach in cover ring (19). Make sure that spring is attached correctly.



16 Attach spring with small eye in brake shoes.

Note: The eyes of return springs are different. Large eye see arrow.



17 Attach removal and installation tool (41) in large eye of return spring (31), then attach return spring in other brake shoe (20).

18 Install brake disc (42–228).

19 Adjust parking brake (42–540).