

Data

Brake shoe dia.	160-0.2
ID of brake disc	160 + 0.2
Brake shoe width	25

Lubricant

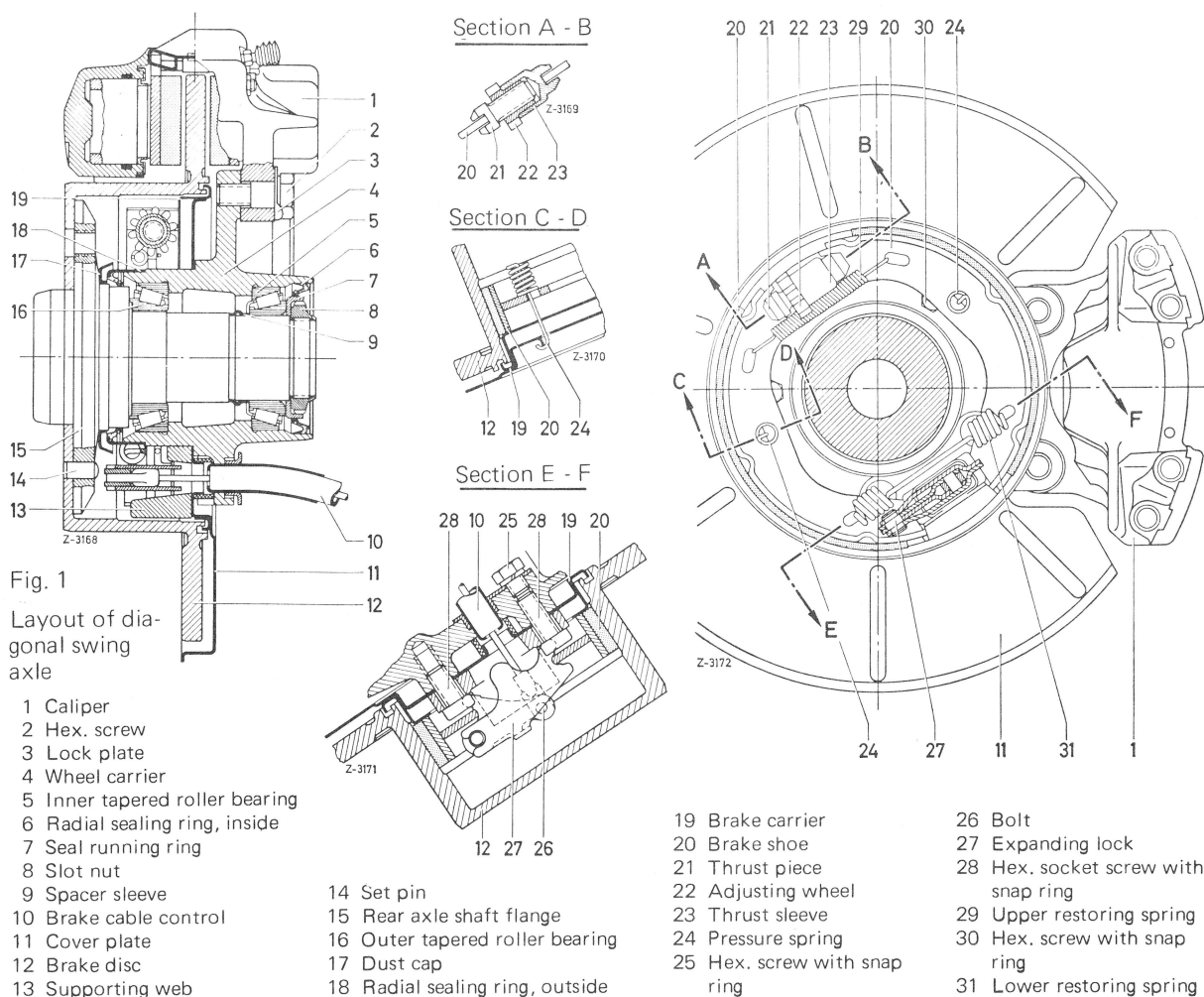
Molykote paste U	Molykote paste G Rapid	Liqui-Moly-paste 36
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Special Tools

Removing and installing tool for return spring	116 589 01 62 00
Installation tool for pressure spring	112 589 09 61 00

The parking brake is designed as a duo-servo brake. „Duo” means that the brake effect is the same in both directions of rotation of the brake disc, and

„servo” indicates the effect of one brake shoe against the other.



42.1 Removal and Installation of Brake Shoes of Parking Brake

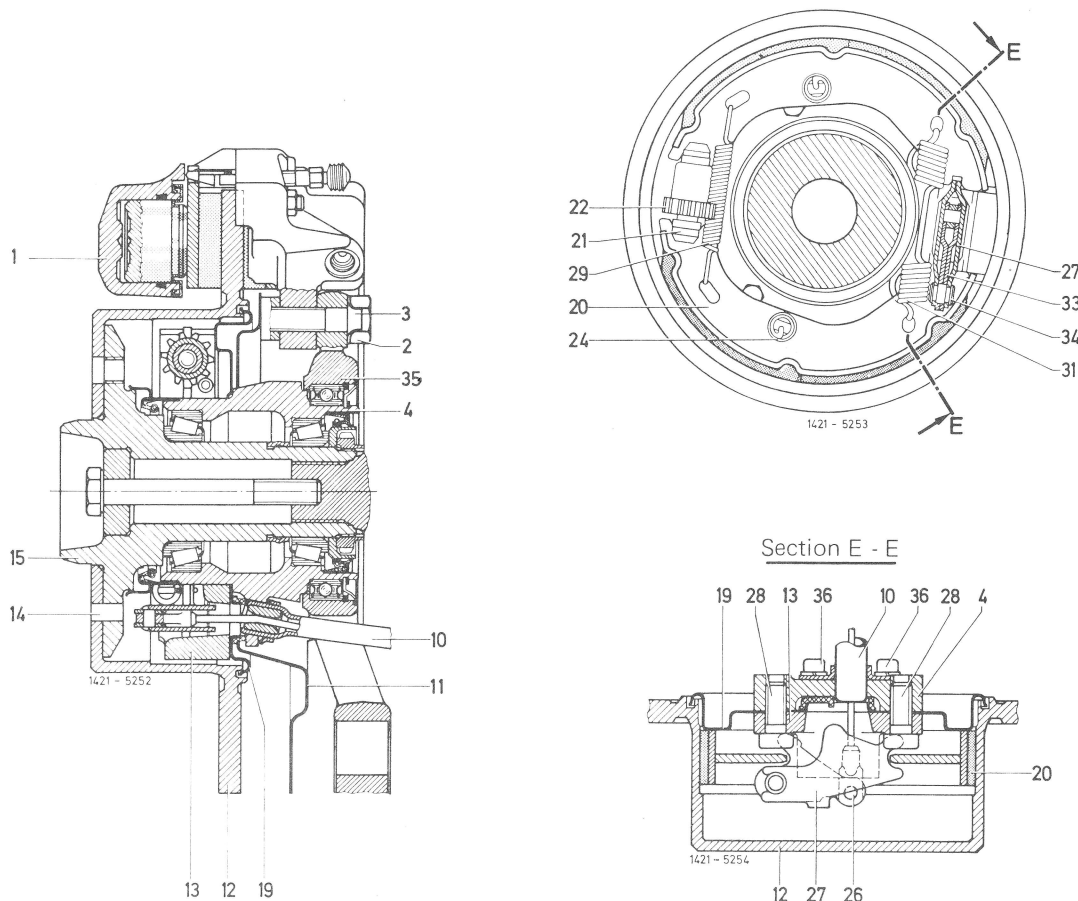


Fig. 2

Layout of diagonal swing axle with starting torque compensation

- | | | | |
|------------------------|---------------------------|-------------------------------------|-------------------------------------|
| 1 Caliper | 13 Supporting web | 23 Pressure sleeve | 31 Restoring spring |
| 2 Hex. screw | 14 Set pin | 24 Pressure spring | 33 Actuating lever |
| 3 Lock plate | 15 Rear axle shaft flange | 26 Bolt | 34 Articulated bolt |
| 4 Wheel carrier | 19 Brake carrier | 27 Pressure plate | 35 Caliper bracket |
| 10 Brake cable control | 20 Brake shoes | 28 Hex. socket screw with snap ring | 36 Hex. socket screw with snap ring |
| 11 Cover plate | 21 Thrust piece | 29 Restoring spring | |
| 12 Brake disc | 22 Adjusting wheel | | |

Removal

1 On vehicles with diagonal swing axle with starting torque compensation, unscrew hex. screws for attaching brake hose holder (21) from caliper bracket (Fig. 3).

2 Unbend lock plate (3) and unscrew hex. screws (2). Remove caliper and attach together with brake hose and a suitable hook to torsion bar (Fig. 4 to 6).

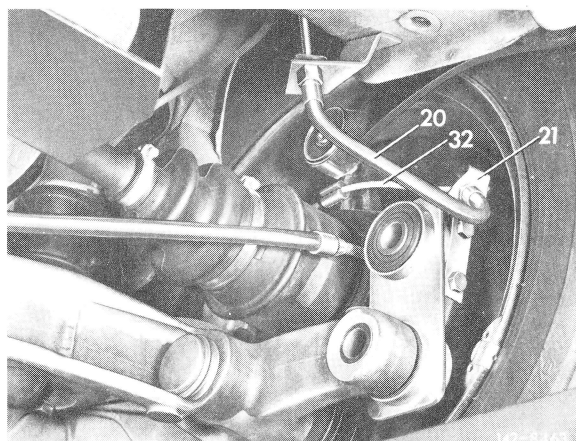


Fig. 3

- | | |
|----------------------|---------------|
| 20 Brake hose | 32 Brake line |
| 21 Brake hose holder | |

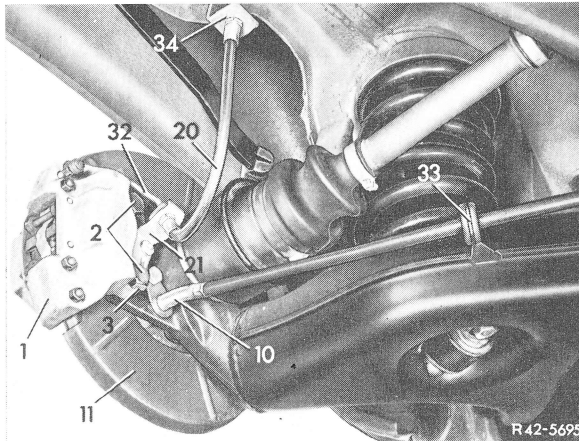


Fig. 4

Layout of diagonal swing axle

- | | |
|------------------------|--|
| 1 Caliper | 21 Brake hose holder |
| 2 Hex. screw | 32 Brake line |
| 3 Lock plate | 33 Holder for brake cable control with rubber sleeve |
| 10 Brake cable control | 34 Holder on frame floor |
| 11 Cover plate | |
| 20 Brake hose | |

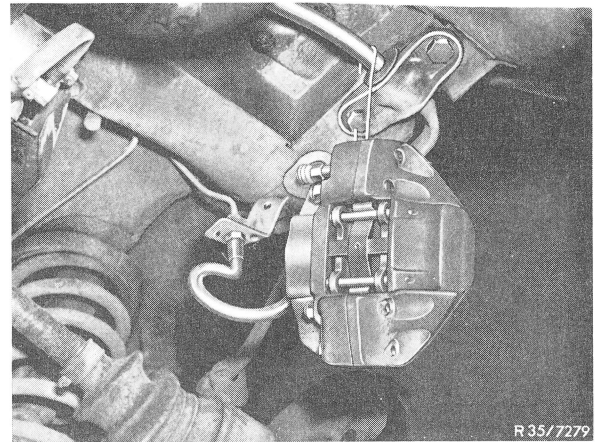


Fig. 6

3 Remove brake disc (42.1-228).

4 Disconnect restoring spring (31) by means of removing and installing tool (41) (Fig. 7 to 9).

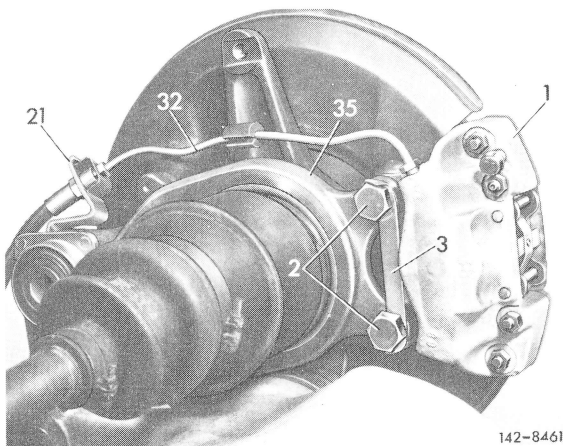


Fig. 5

Layout of diagonal swing axle with starting torque compensation

- | | |
|--------------|----------------------|
| 1 Caliper | 21 Brake hose holder |
| 2 Hex. screw | 32 Brake line |
| 3 Lock plate | 35 Caliper bracket |

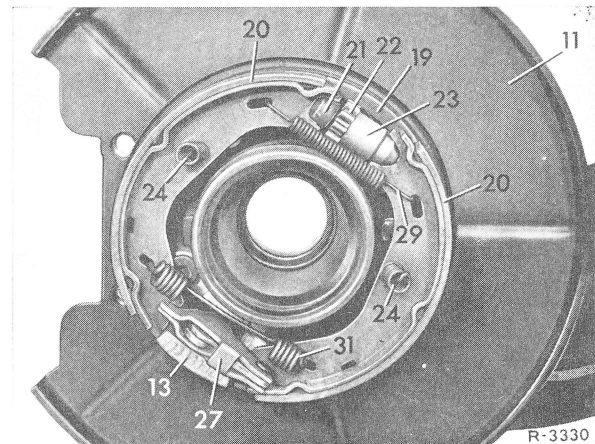


Fig. 7

Layout of diagonal swing axle

- | | |
|--------------------|---------------------|
| 11 Cover plate | 23 Pressure sleeve |
| 13 Supporting web | 24 Pressure spring |
| 19 Brake carrier | 27 Expanding lock |
| 20 Brake shoes | 29 Restoring spring |
| 21 Thrust piece | 31 Restoring spring |
| 22 Adjusting wheel | |

42.1 Removal and Installation of Brake Shoes of Parking Brake

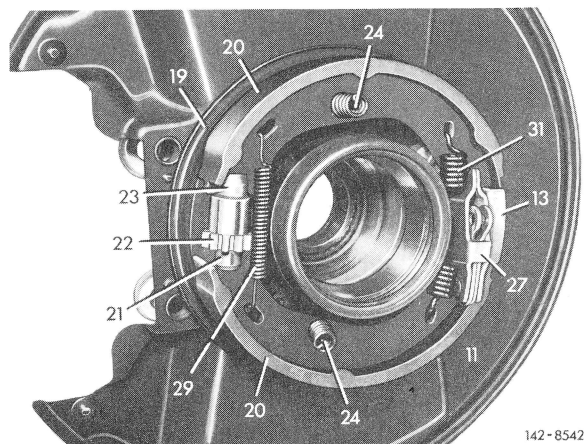


Fig. 8
Layout of diagonal swing axle with starting torque compensation

- | | |
|--------------------|---------------------|
| 11 Cover plate | 23 Pressure sleeve |
| 13 Supporting web | 24 Pressure spring |
| 19 Brake carrier | 27 Expanding lock |
| 20 Brake shoes | 29 Restoring spring |
| 21 Thrust piece | 31 Restoring spring |
| 22 Adjusting wheel | |

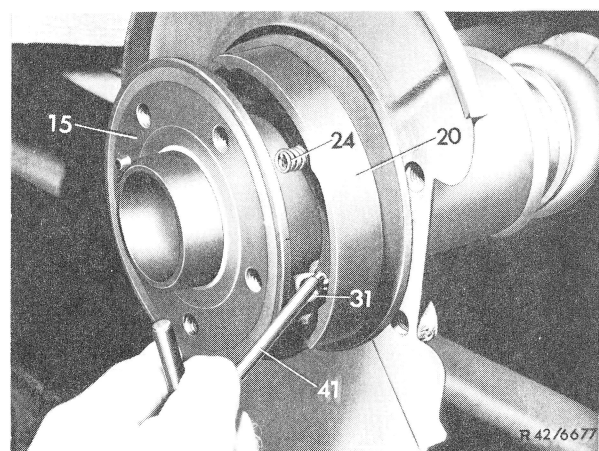


Fig. 9

15 Rear axle shaft flange	31 Restoring spring
20 Brake shoes	41 Removing and installing tool
24 Pressure spring	

5 Turn rear axle shaft flange (15) so that one tapped hole points toward spring (24). Then compress spring slightly with installation tool (40), turn tool by approx. 90°, disconnect spring from cover plate and remove (Fig. 11).

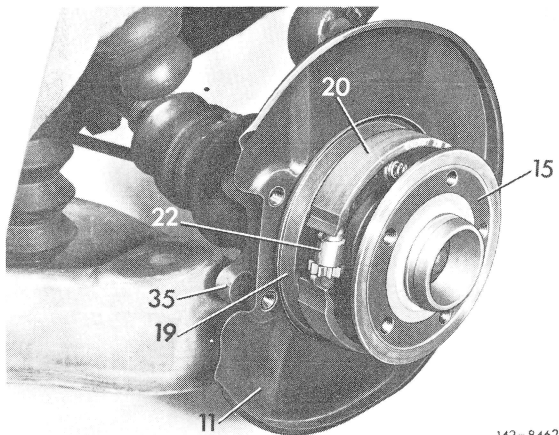


Fig. 10

- | | |
|---------------------------|--------------------|
| 11 Cover plate | 20 Brake shoes |
| 15 Rear axle shaft flange | 22 Adjusting wheel |
| 19 Brake carrier | 35 Caliper bracket |

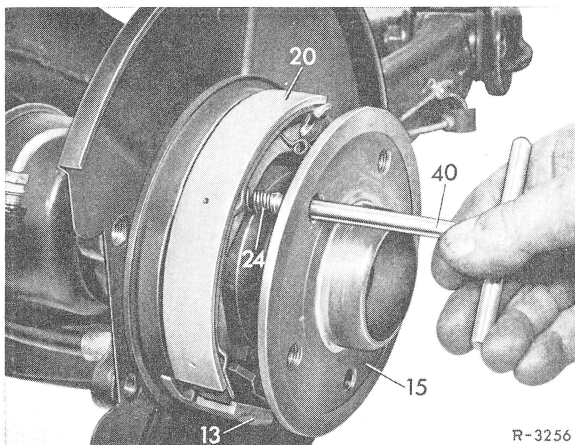


Fig. 11

- | | |
|---------------------------|----------------------|
| 13 Supporting web | 24 Spring |
| 15 Rear axle shaft flange | 40 Installation tool |
| 20 Brake shoes | |

6 Remove spring on other brake shoe in a similar manner.

7 Pull both brake shoes (20) apart to permit removal over rear axle shaft flange (15) (Fig. 10 to 12).

8 Disconnect return spring (29) from brake shoes (20) and remove adjusting device (21 to 23) (Fig. 13).

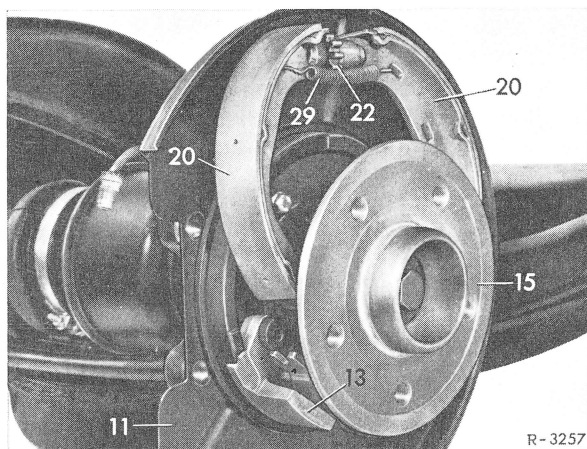


Fig. 12

- | | |
|-------------------|---------------------|
| 11 Cover plate | 20 Brake shoes |
| 13 Supporting web | 22 Adjusting device |

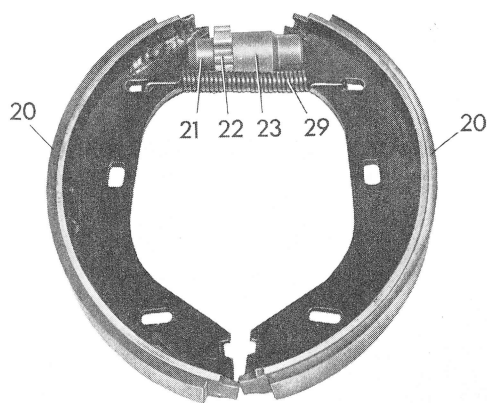


Fig. 13

- | | |
|--------------------|---------------------|
| 20 Brake shoes | 23 Pressure sleeve |
| 21 Thrust piece | 29 Restoring spring |
| 22 Adjusting wheel | |

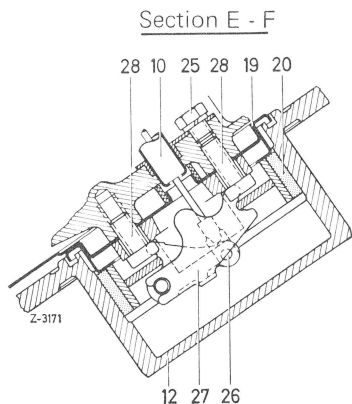


Fig. 14

Layout for diagonal swing axle

- | | |
|------------------------|----------------------|
| 10 Brake cable control | 26 Bolt |
| 12 Brake disc | 27 Expanding lock |
| 19 Cover plate | 28 Hex. socket screw |
| 20 Brake shoes | |

9 Push bolt (26) out of expanding lock (27) and remove expanding lock from brake cable control (10) (Fig. 14 and 15).

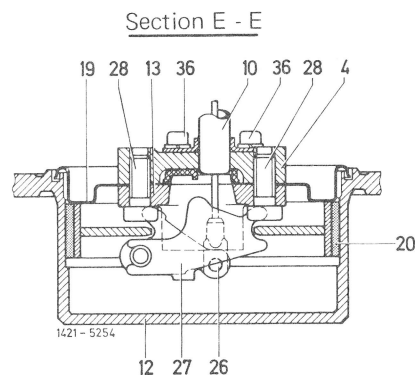


Fig. 15

Layout for diagonal swing axle with starting torque compensation

- | | |
|------------------------|-------------------------------------|
| 4 Wheel carrier | 26 Bolt |
| 10 Brake cable control | 27 Expanding lock |
| 12 Brake disc | 28 Hex. socket screw |
| 13 Supporting web | 36 Hex. socket screw with snap ring |
| 19 Cover plate | |
| 20 Brake shoe | |

Installation

10 Coat all bearing and slide surfaces on expanding lock with Molykote paste, attach brake cable control (10) with bolt (26) to expanding lock (27). Then push expanding lock toward cover plate (19) (Fig. 14 and 15).

11 Tighten both hex. socket screws for attaching supporting web (13). Tightening torque 50 Nm (5 kpm) (Fig. 12).

Section A - B

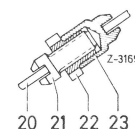


Fig. 16

- | | |
|-----------------|--------------------|
| 20 Brake shoe | 22 Adjusting wheel |
| 21 Thrust piece | 23 Pressure sleeve |

12 Coat threads of thrust piece (21) and cylindrical portion of adjusting wheel (22) with a longterm lubricant. Assemble adjusting device and turn completely back (Fig. 16).

13 Insert adjusting device (21 to 23) into both brake shoes in such a manner that adjusting wheel (22) on diagonal swing axle points forward (Fig. 7) and on diagonal swing axle with starting torque compensation downwards (Fig. 8 and 10).

42.1 Removal and Installation of Brake Shoes of Parking Brake

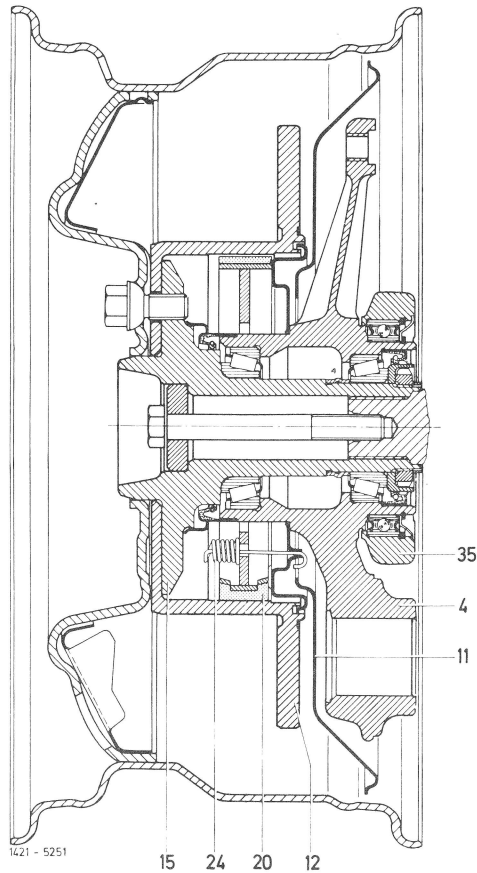


Fig. 17

- | | |
|---------------------------|--------------------------|
| 4 Wheel carrier | 20 Brake shoe |
| 11 Cover plate | 24 Spring |
| 12 Brake disc | 35 Brake caliper bracket |
| 15 Rear axle shaft flange | |

14 Attach restoring spring (29) to both brake shoes (Fig. 13).

15 Pull brake shoes (20) apart, insert over rear axle shaft flange (15) and attach to expanding lock (Fig. 12).

16 Insert spring (24) into brake shoes (20). Introduce installation tool (40) through a tapped hole of rear axle shaft flange (15), then compress spring slightly, turn by 90° and attach to cover plate (19). Make sure that spring is correctly attached (Fig. 11 and 17).

17 Attach spring (31) with small eye to brake shoes (Fig. 9 and 18).

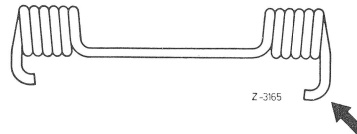


Fig. 18

18 Attach removing and installing tool (41) into large eye of restoring spring (31), then attach restoring spring to other brake shoe (20) (Fig. 9 and 18).

19 Install brake disc (42.1–228).

20 Install caliper (42.1–120).

21 On vehicles with diagonal swing axle with starting torque compensation, attach brake hose holder to caliper bracket.

22 Adjust parking brake (42.0–540).