

42–228 Removal and installation of brake disc on rear axle

Data

Thickness of brake disc	10
Wear limit	8.3
Brake disc dia.	279 ± 0.2
Fitted bore dia.	67.00 67.05
ID for parking brake	160 + 0.2
Lateral runout	approx. 0.12

Lubricants

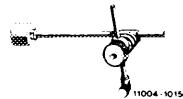
Molykote paste U	Molykote paste G rapid	Liqui Moly paste 36
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Tightening torque Nm

Hex bolt for attaching caliper to wheel carrier of rear axle 90

Special tools

Dial gauge holder for measuring axial runout of brake disc



363 589 02 21 00

Measuring slide for measuring thickness of brake disc



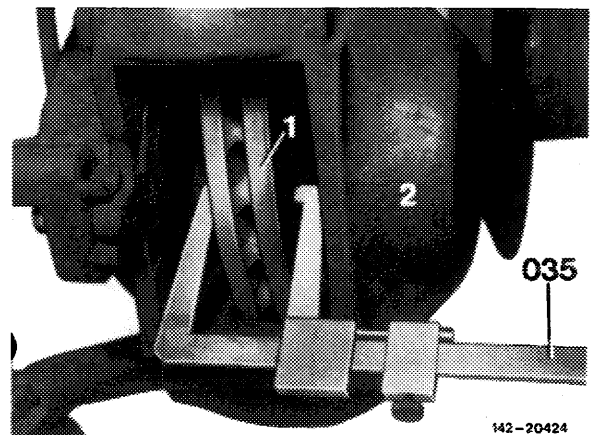
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Note

When checking brake disc, proceed as follows:

- Measure thickness of brake disc between cover plate and caliper or, with brake pads removed, in shaft with measuring slide.
- Check visually.

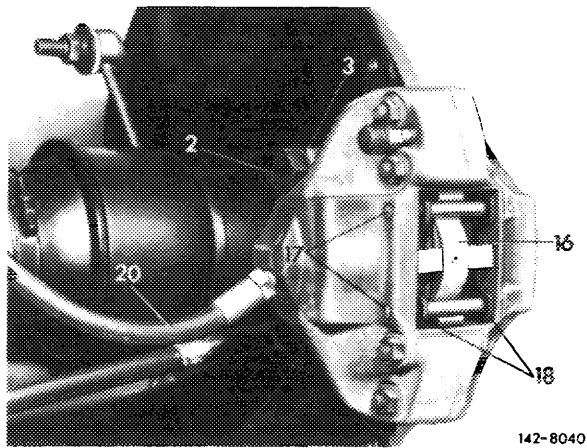
Replace brake disc when cracks are large (not measurable), when score marks are deeper than 0.5 mm and when the wear limit is attained.



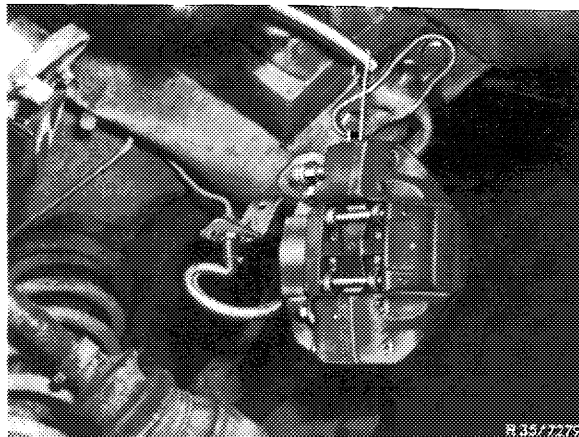
142-20424

Removal

1 Unbend locking plate (3), if installed, and unscrew hex. bolts (2).

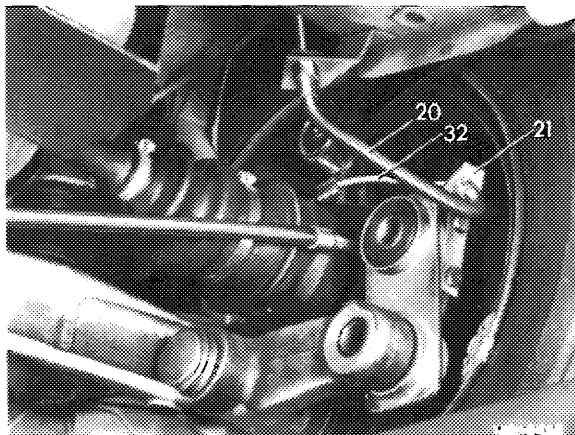


2 Remove caliper and on vehicles with diagonal swing axle, hang up on torsion bar together with brake hose by means of a suitable hook.



3 On vehicles with diagonal swing axle with starting torque compensation, unscrew hex bolts for fastening brake hose holder (21) from caliper carrier. Then also hang up caliper on torsion bar by means of a hook.

Note: The hook is self-made. **Do not subject brake hose to tensile stress.**



4 Remove brake disc (12) from rear axle shaft flange (15).

Loosen stuck brake discs from seat of rear axle shaft flange by means of light blows with a plastic hammer. Make sure, that parking brake is completely released.

Installation

5 Coat fitted seat of rear axle shaft flange with a heat-resistant long-term lubricant (Molykote paste "U", Molykote paste G rapid, Liqui-Moly paste 36), so that the brake disc can be easily removed from rear axle shaft flange later on.

Note: Spare brake discs are protected against corrosion by means of nitrocellulose paint. For this reason, these brake discs must be cleaned with a solvent prior to installation. Make sure that safety rules are observed.

6 Place brake disc (12) on rear axle shaft flange. Make sure that the fitted pin (14) enters correctly into brake disc.

7 Place caliper against wheel carrier. Then screw hex bolts (2) with a new locking plate (3) or self-locking hex bolts (2) into holder and tighten to 90 Nm. Secure with locking plate, if required (42–120).

Attention!

Self-locking hex bolts will be installed starting December 1975. **These hex bolts may be used only once.** In the event of repairs (when caliper is not replaced) continue using the original fastening system:

- a) Bolts with locking plate or
- b) self-locking bolts.

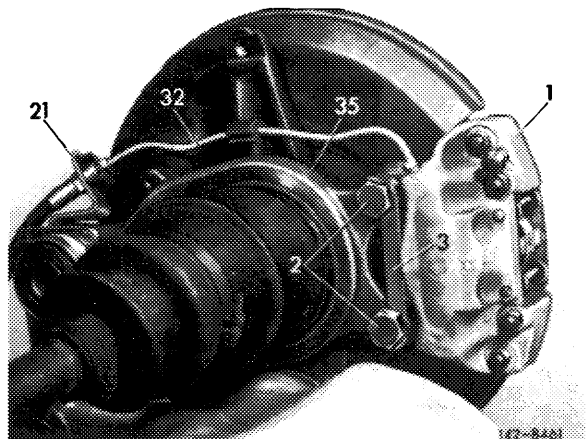
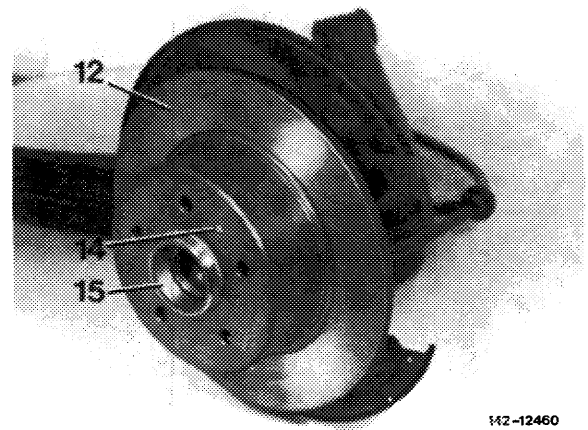
When renewing calipers, use locking plate also with self-locking bolts for safety reasons.

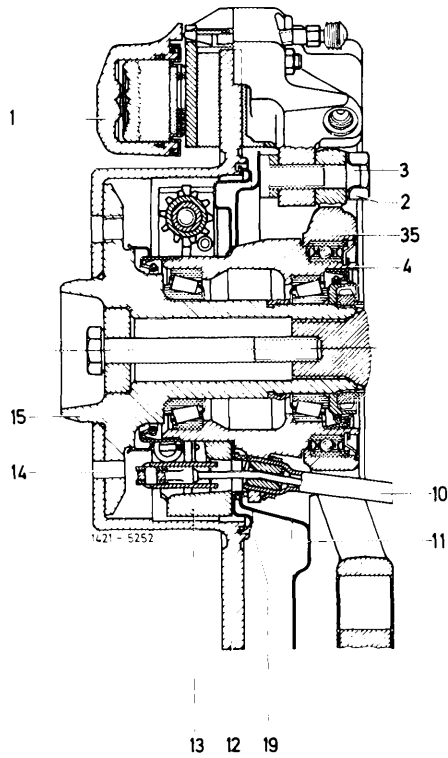
Length of bolts on vehicles:

Diagonal swing axle **without** starting torque compensation M 12 x 30

Diagonal swing axle **with** starting torque compensation M 12 x 42

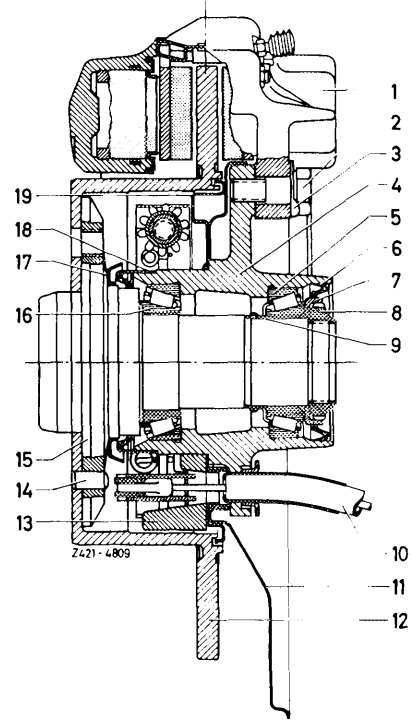
8 On vehicles with diagonal swing axle and starting torque compensation attach brake hose holder (21) to caliper carrier.





Layout cover plate diagonal swing axle with starting torque compensation

- | | |
|------------------------|---------------------------|
| 1 Caliper | 12 Brake disc |
| 2 Hex bolt | 13 Brake carrier |
| 3 Locking plate | 14 Fitted pin |
| 4 Wheel carrier | 15 Rear axle shaft flange |
| 10 Brake cable control | 19 Cover ring |
| 11 Cover plate | 35 Caliper carrier |



Layout cover plate diagonal swing axle

- | | |
|--------------------------------|---------------------------------|
| 1 Caliper | 11 Cover plate |
| 2 Hex bolt | 12 Brake disc |
| 3 Locking plate | 13 Brake carrier |
| 4 Wheel carrier | 14 Fitted pin |
| 5 Inner tapered roller bearing | 15 Rear axle shaft flange |
| 6 Radial sealing ring | 16 Outer tapered roller bearing |
| 7 Seal running ring | 17 Dust cap |
| 8 Slotted nut | 18 Radial sealing ring |
| 9 Spacing sleeve | 19 Cover ring |
| 10 Brake cable control | |

Attention!

Prior to moving off, actuate brake pedal several times energetically to obtain the correct clearance between brake disc and brake pad. Then top up brake fluid supply in expansion tank of tandem main cylinder.

Note: If during a trial run (mainly after driving around a bend) a different pedal travel is observed, measure lateral runout of brake disc on OD. Simultaneously, check rear axle shaft flange for vertical and lateral runout and wheel bearing play in semi-trailing arm and adjust, if required (35–130).

If the lateral runout of the brake disc is too high, renew brake disc.