

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

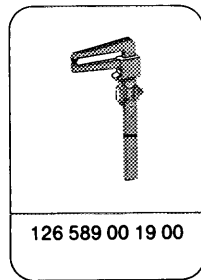
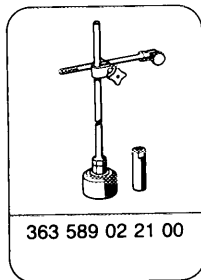
Data

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 (axial runout)	max. 0.15

Lubricants

Molykote paste U	Molykote paste G rapid	Liqui-Moly paste 36
Tightening torque		
Nm		
Hex bolt for attaching fixed caliper to wheel carrier of rear axle		
90		

Special tools



Conventional tool

Dial gauge A 1 DIN 878

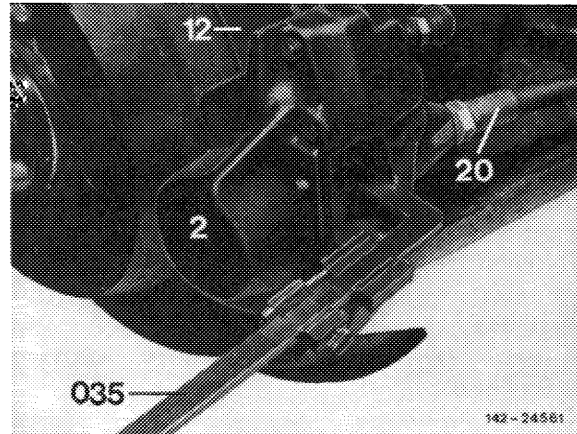
e.g. made by Mahr, D-7300 Esslingen
order no. 810

Note

When checking, proceed as follows:

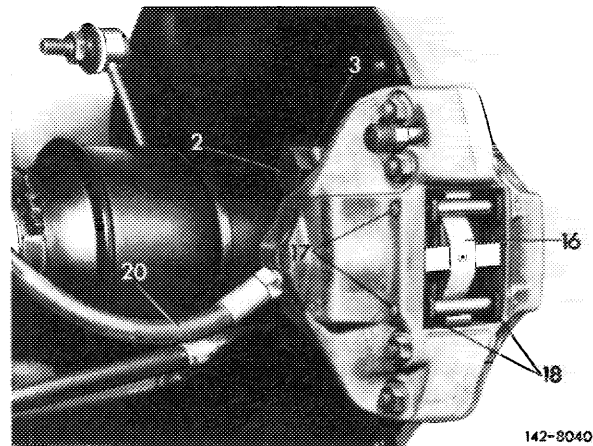
- a) Measure thickness of brake disc between cover plate and fixed caliper, or with brake pads removed, in inspection hole by means of slide gauge.
- b) Check visually.

If cracks are rather large (not measurable), if score marks are deeper than 0.5 mm and when wear limit is attained, replace brake discs.

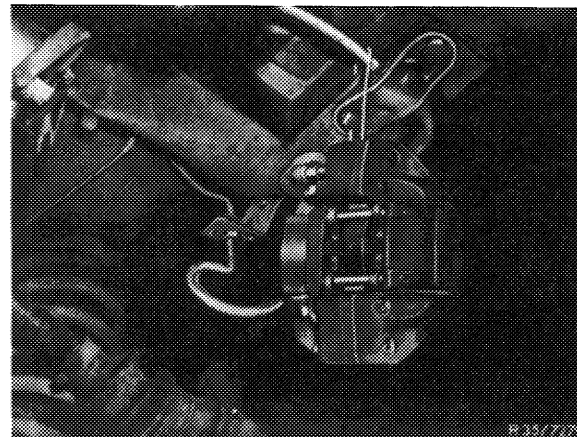


Removal

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

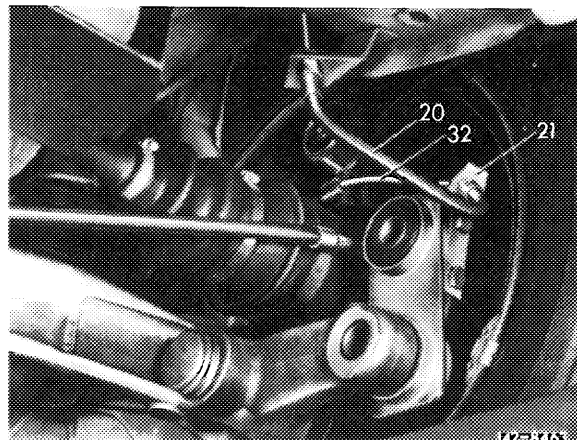


2 Remove fixed caliper and on vehicles with diagonal swing axle, hang up on torsion bar together with brake hose by means of a suitable hook.



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 fixed 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).

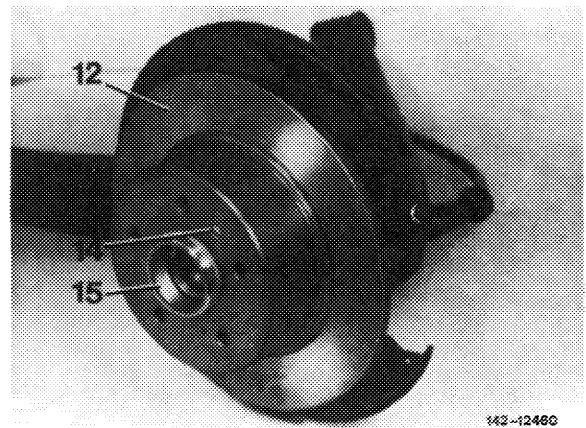
Loosen stuck brake discs from seat of rear axle shaft flange by light blows with a plastic hammer. Make sure that the parking brake is entirely released.

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.

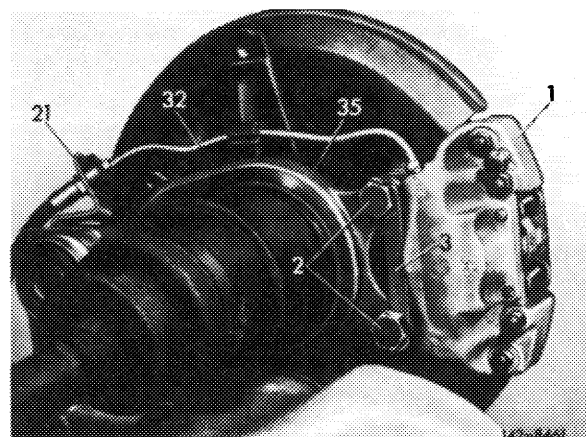
Note: Spare brake discs are protected against corrosion by means of nitrocellulose paint. For this reason, these brake discs must be cleaned with a solvent prior to installation. Make sure that safety rules are observed.

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



- 7 Place fixed 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).

Note: Self-locking hex. bolts will be installed starting December 1975. **These hex. bolts may be used only once.**



In the event of repairs (when fixed caliper is not replaced) continue using the original fastening system:

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

Length of bolts on vehicles:

without starting torque compensation M 12 x 30,
with starting torque compensation M 12 x 42.

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

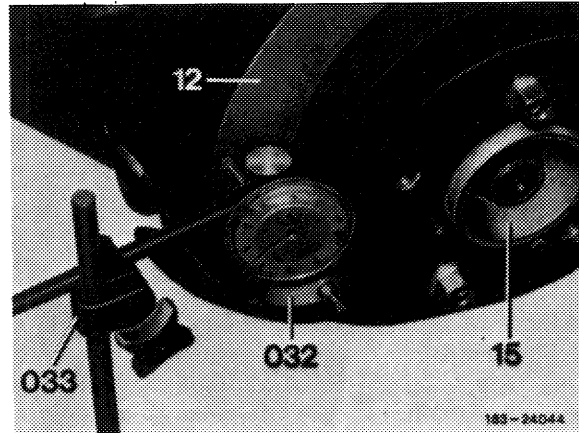
8 On vehicles with diagonal swing axle and starting torque compensation attach brake hose holder (21) to fixed caliper carrier.

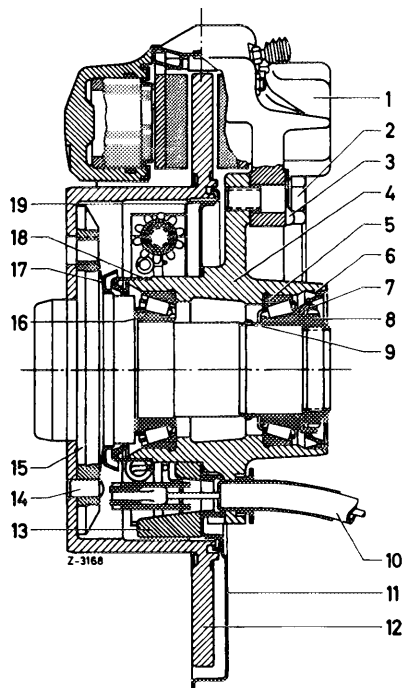
Attention!

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.

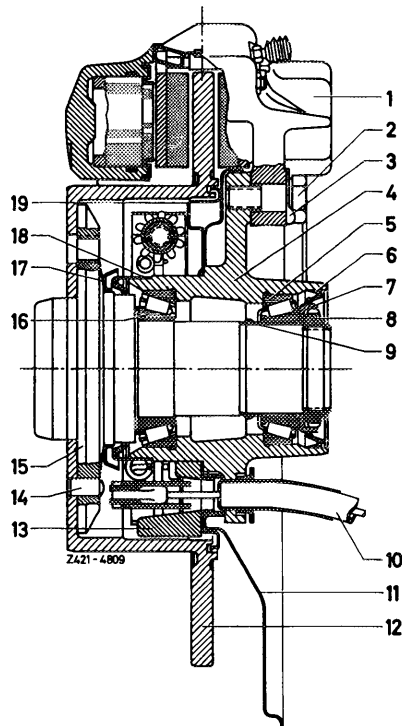
Note: If during a trial run (mainly after driving around a bend) a different pedal travel is observed, measure lateral runout of brake disc on OD. Simultaneously, check rear axle shaft flange or vertical and lateral runout and wheel bearing play in semitrailing arm and adjust, if required (35–130).

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

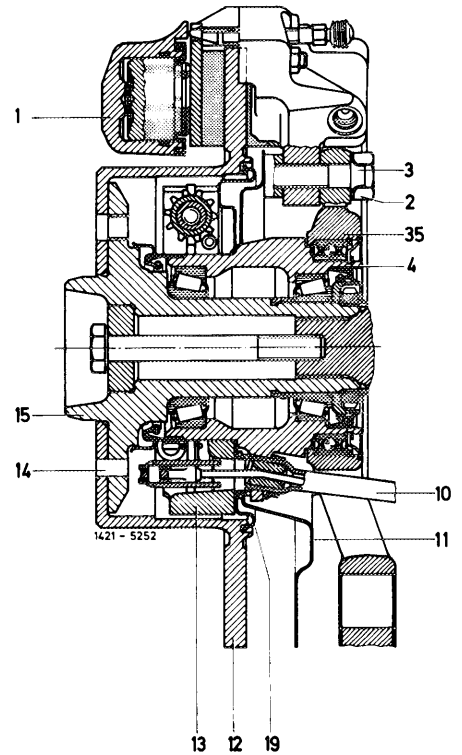




Layout cover plate
diagonal swing axle
1st version



Layout cover plate
diagonal swing axle
2nd version



Layout cover plate
diagonal swing axle with
starting torque compensation

- 1 Fixed caliper
- 2 Hex bolt
- 3 Locking plate
- 4 Wheel carrier
- 5 Inner tapered roller bearing
- 6 Radial sealing ring
- 7 Seal running ring

- 8 Slotted nut
- 9 Spacing sleeve
- 10 Brake cable control
- 11 Cover plate
- 12 Brake disc
- 13 Brake carrier
- 14 Fitted pin

- 15 Rear axle shaft flange
- 16 Outer tapered roller bearing
- 17 Dust cap
- 18 Radial sealing ring
- 19 Cover ring
- 35 Fixed caliper carrier