

33–310 Removal and installation of front wheel hub

Data

Wheel bearing end play	0.01–0.02
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Lubricant


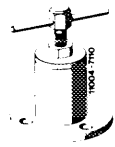

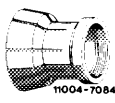
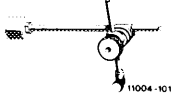
Quantity	In hub cap: Grease quantity approx. 15 g (about up to edge of bead)
Type	Series fillup: Anti-friction bearing grease (refer to Specifications for service products page 265) Repair fillup: High-temperature anti-friction bearing grease (refer to Specifications for service products page 265.1) ¹⁾

¹⁾ Available in 150 gr. screw cans, part No. 000 989 49 51.

Tightening torques

	Nm
Hex. head screws for fixed caliper	115
Hex. socket screw for clamping nut	14

Special tools

Pulling-off and pressing-on device for hub cap		116 589 22 33 00	
Puller for front wheel hub		116 589 17 33 00	
Puller for tapered roller bearing inner race	Basic unit		001 589 36 33 00
	Collet		000 589 00 34 00
Holder for dial gauge for adjusting wheel bearing end play		363 589 02 21 00	

Conventional tool

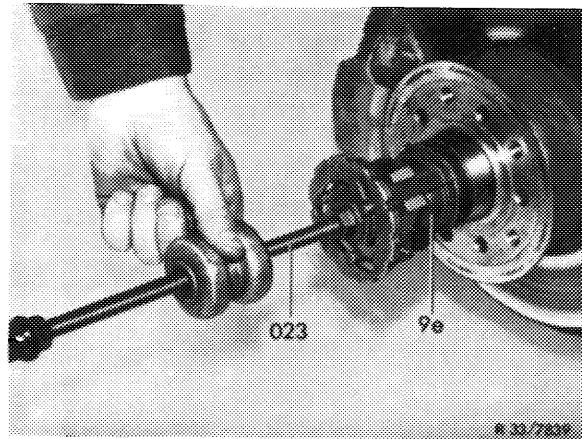
Dial gauge A 1 DIN 878	e.g. made by Mahr, D-7300 Esslingen Order No. 810
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Note

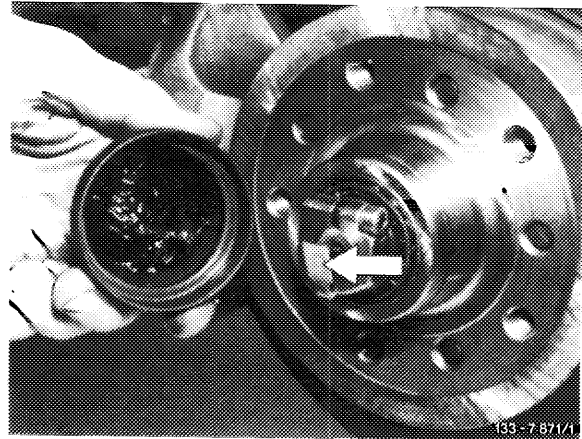
In the event of repairs, from now on use exclusively high-temperature anti-friction bearing grease for front wheel hubs. Generally renew complete grease charge of front wheel hub, since a mixture of anti-friction bearing grease or multi-grade grease must be absolutely prevented. If, in exceptional cases, high-temperature anti-friction bearing grease is not available, multi-grade grease (refer to Operating instructions page 267) may be used.

Removal

- 1 Jack-up vehicle, remove front wheel.
- 2 Pull-off hub cap (9e) with puller (023).



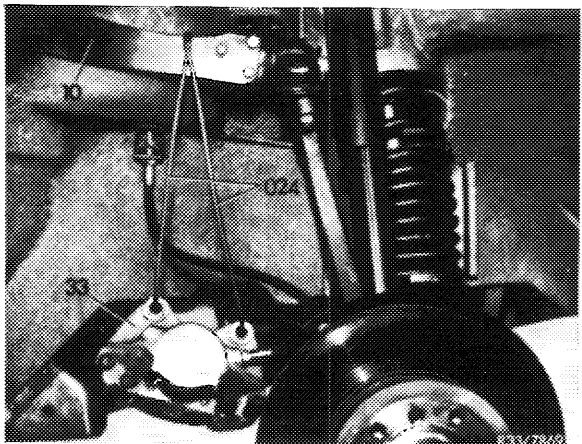
- 3 Remove contact spring from radio interference suppressor.



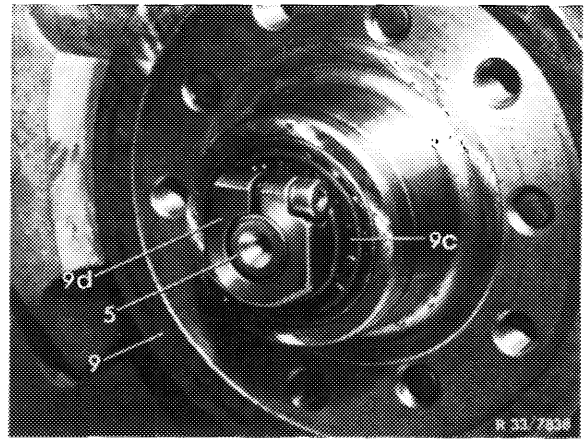
- 4 Unscrew fixed caliper from steering knuckle and hold with a suitable hook in wheel house.

Attention!

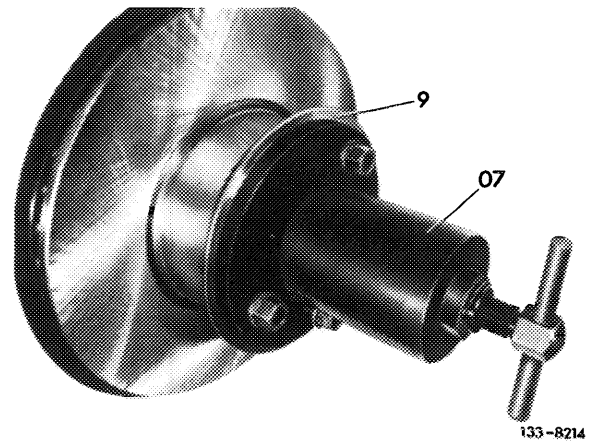
Do not subject brake hose to tensile strain!



5 Loosen hex. socket screw of clamping nut (9d) on wheel spindle (5), unscrew clamping nut.

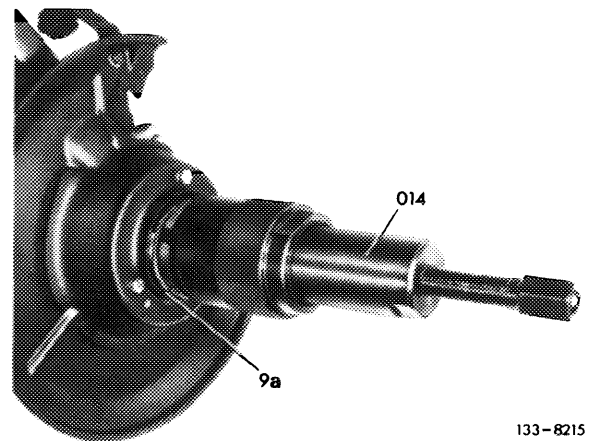


6 Pull-off front wheel hub (9) together with brake disc, if required with puller (07).



7 Additional jobs if tapered roller bearing inner race is stuck on steering knuckle:

- a) Pull tapered roller bearing inner race from steering knuckle with puller (014).
- b) Remove radial sealing ring (9a) from steering knuckle.

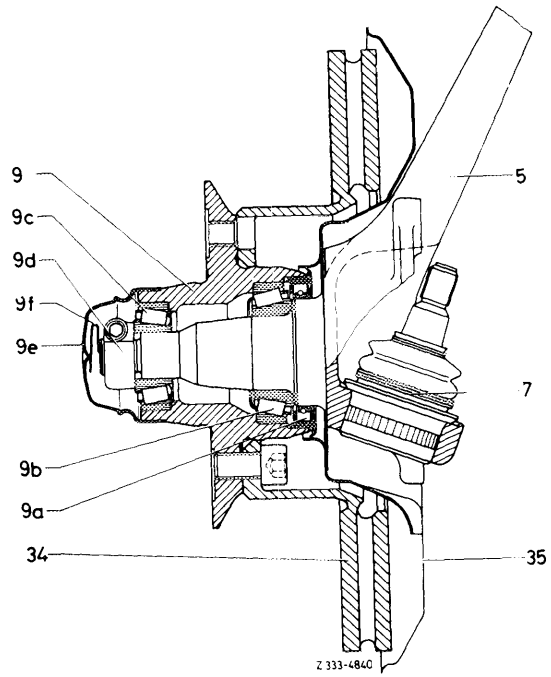


8 Check front wheel hub, tapered roller bearing and radial sealing ring (33–320).

9 Check brake disc (42–220).

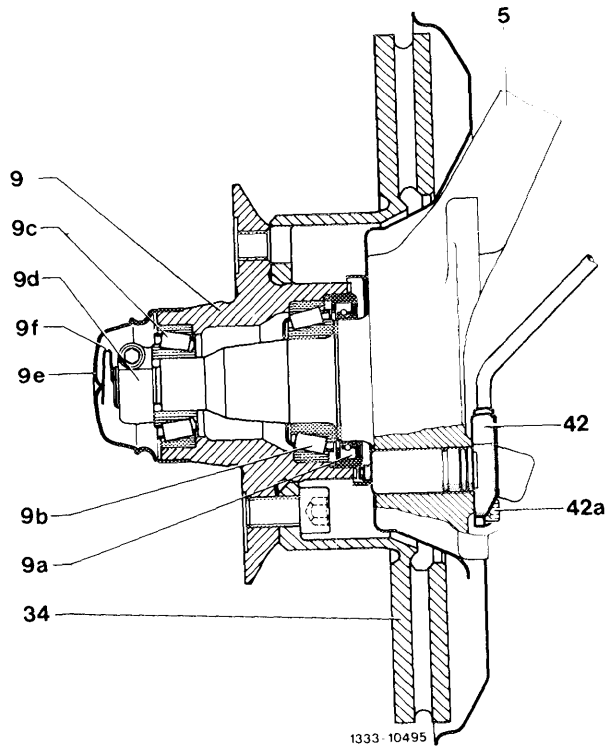
Front wheel hub without ABS

- 5 Steering knuckle
- 7 Supporting joint
- 9 Front wheel hub
- 9a Radial sealing ring
- 9b Tapered roller bearing, inside
- 9c Tapered roller bearing, outside
- 9d Clamping nut
- 9e Wheel cap
- 9f Contact spring
- 34 Brake disc
- 35 Cover plate



Front wheel hub with ABS

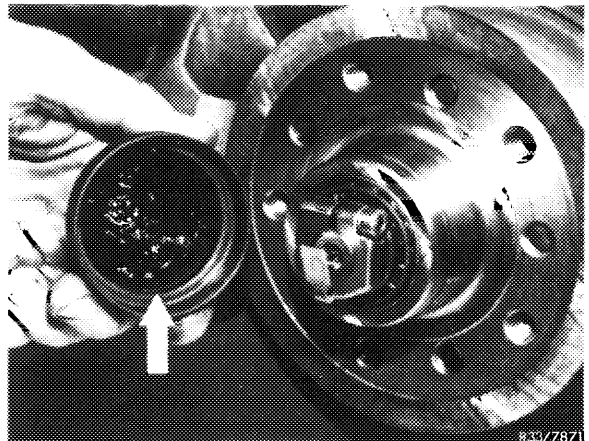
- 5 Steering knuckle
- 9 Front wheel hub
- 9a Radial sealing ring
- 9b Tapered roller bearing, inside
- 9c Tapered roller bearing, outside
- 9d Clamping nut
- 9e Wheel cap
- 9f Contact spring
- 34 Brake disc
- 42 Rpm sensor
- 42a Hex. socket screw



Installation

- 10 If required, install tapered roller bearing inner race of inner tapered roller bearing and radial sealing ring in front wheel hub (33—320).
 - 11 Coat running surface for radial sealing ring on kingpin thinly with anti-friction bearing grease.
 - 12 Force wheel hub with screwed-on brake disc on kingpin, insert inner race with roller cage of outer tapered roller bearing and screw-on clamping nut.
 - 13 Adjust wheel bearing end play (33—300).
 - 14 Fasten fixed caliper with new locking plate or self-locking hex. head fitted screws to steering knuckle (42—100).
- Attention!**
Do not twist brake hose and do not subject to tensile strain.
- 15 Insert contact spring for radio interference suppressor.

- 16 Fill wheel cap (hub cap) with specified anti-friction bearing grease.



- 17 Attach wheel cap with pertinent tool (023).
- 18 Mount front wheel, lower vehicle.

