

## 33–310 Removal and installation of front wheel hub

### Lubricant

Quantity	Into wheel cap: Grease quantity approx. 20 g (about up to edge of bead)
Series fillup:	Anti-friction bearing grease (refer to Specifications for service products sheet 265)
Repair fillup:	High-temperature anti-friction bearing grease (refer to Specifications for service products sheet 265.1) <sup>1)</sup>

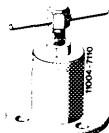
<sup>1)</sup> Available in 150 gr. screw cans, part no. 000 989 49 51.

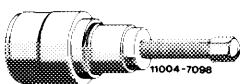
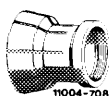
### Tightening torques

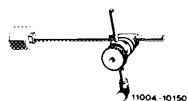
	Nm
Hex. bolts for brake caliper	115
Hex. socket screw of clamping nut	20

### Special tools

Remover and installer for wheel cap		116 589 22 33 00
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Impact puller for front wheel hub		201 589 10 33 00
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Puller for tapered roller bearing inner race	basic tool		001 589 36 33 00
	collet		000 589 01 34 00

Holder for dial gauge to adjust wheel bearing end play		363 589 02 21 00
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### Conventional tool

Dial gauge A 1 DIN 878	e.g. made by Mahr, D–7300 Esslingen order No. 311 000
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## Note

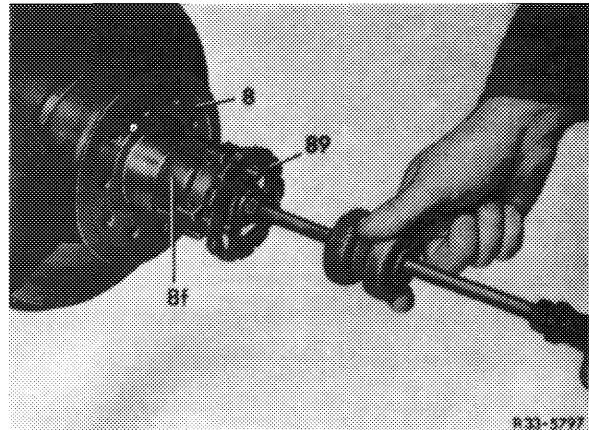
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In the event of repairs, from now on use exclusively high-temperature anti-friction bearing grease for front wheel hubs. Generally renew complete grease charge of front wheel hub, since a mixture of anti-friction bearing grease or multi-grade grease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

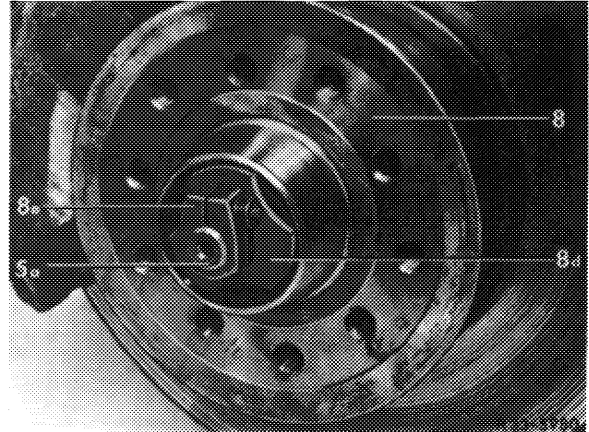
## Removal

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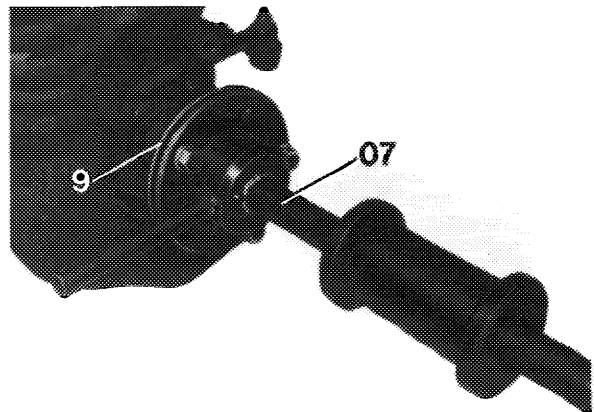
- 1 Remove fixed caliper (42–100).
- 2 Pull wheel cap from front wheel hub with pertinent tool (89).



- 3 Remove contact spring for radio suppressor. Loosen hex. socket screw of clamping nut (8e) on kingpin, unscrew clamping nut and remove washer (8d).



- 4 Pull off front wheel hub with impact puller if required.



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

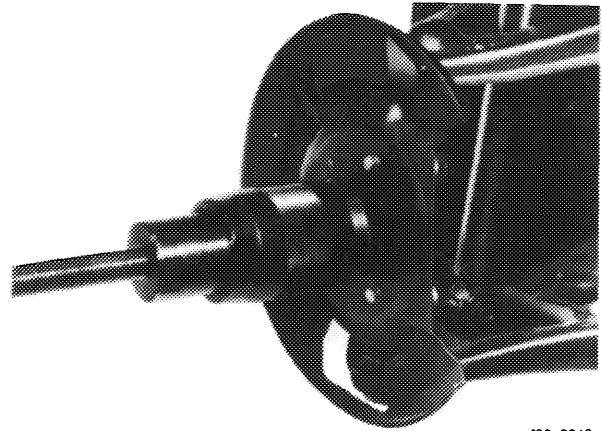
a) Pull tapered roller bearing inner race from steering knuckle.

b) Remove radial seal from steering knuckle.

6 Check kingpin (33–410).

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

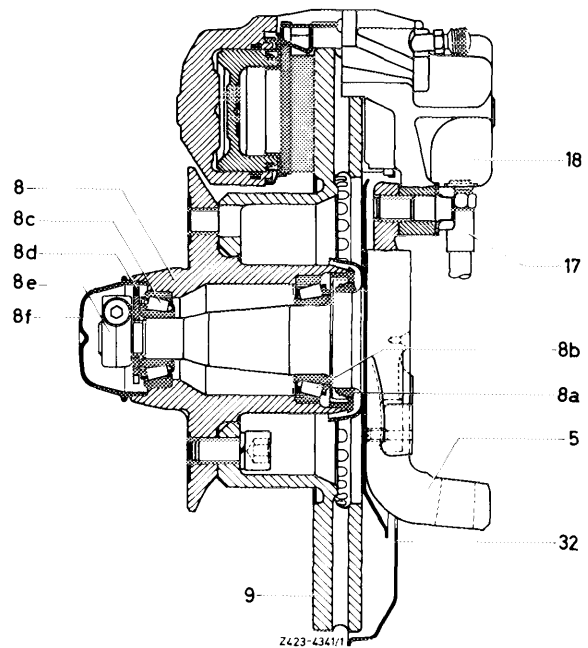
8 Check brake disc (42–220).



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### Installation

9 If required, install tapered roller bearing inner race of inside tapered roller bearing and radial sealing ring in front wheel hub (33–320).



#### Front wheel hub

- |    |                                |    |               |
|----|--------------------------------|----|---------------|
| 5  | Steering knuckle               | 8e | Clamping nut  |
| 8  | Wheel hub                      | 8f | Wheel cap     |
| 8a | Radial sealing ring            | 9  | Brake disc    |
| 8b | Tapered roller bearing inside  | 17 | Brake hose    |
| 8c | Tapered roller bearing outside | 18 | Fixed caliper |
| 8d | Washer                         | 32 | Cover plate   |

10 Coat running surface for radial sealing ring on kingpin thinly with grease.

11 Push wheel hub on kingpin, insert inner race with roller cage of outside tapered roller bearing. Mount washer and fit clamping nut.

12 Adjust wheel bearing end play (33–300).

13 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 expose to tensile stress!**

14 Insert contact spring for radio suppressor.

15 Fill wheel cap with specified anti-friction bearing grease.

16 Attach wheel cap with pertinent tool.

17 Mount front wheel, lower vehicle.

