

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: up to October 1982	Anti-friction bearing grease (refer to Specifications for service products page 265)
Series fillup: starting November 1982 and 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. bolts for brake caliper

115

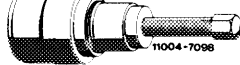
Hex. socket screw of clamping nut

20

Special tools

Remover and installer for wheel cap  116 589 22 33 00

Barrel-type puller for front wheel hub  116 589 17 33 00

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

Conventional tool

Dial gauge A 1 DIN 878

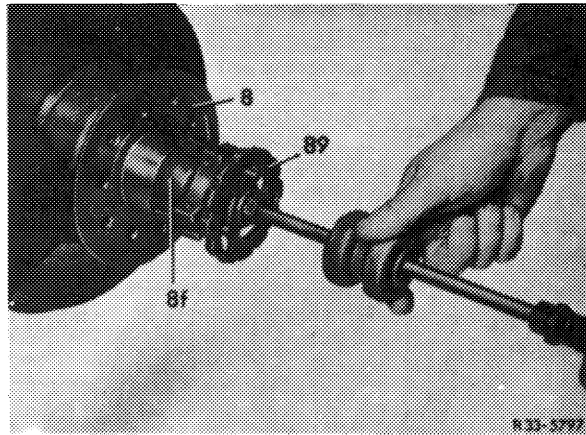
e.g. made by Mahr, D-7300 Esslingen
order No. 810

Note

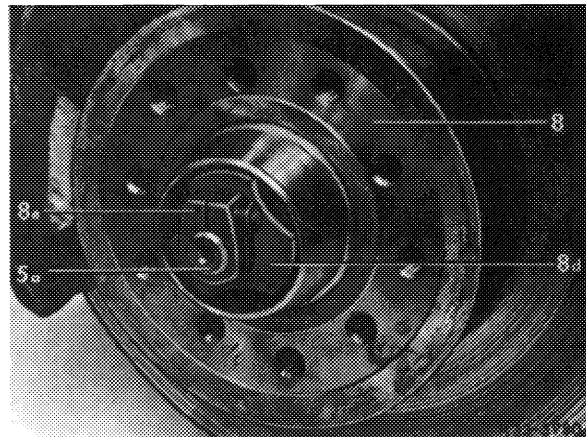
In the event of repairs, from now on use exclusively high-temperature anti-friction bearing grease for front wheel hubs. Generally renew complete grease charge of front wheel hub, since a mixture of anti-friction bearing grease or multi-grade grease must be absolutely prevented. If, in exceptional cases,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

Removal

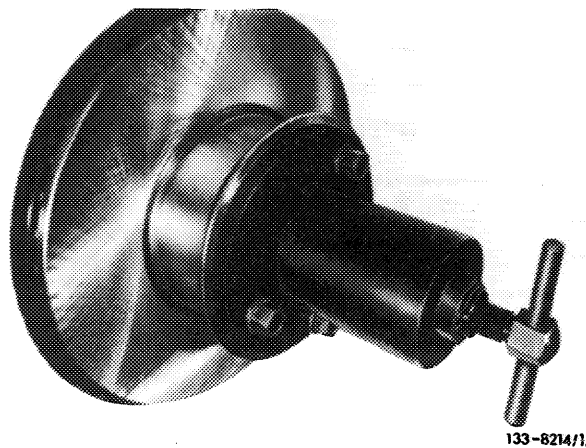
- 1 Remove fixed caliper (42–100).
- 2 Pull wheel cap from front wheel hub with pertinent tool (89).



- 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 barrel-type puller, if required.



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

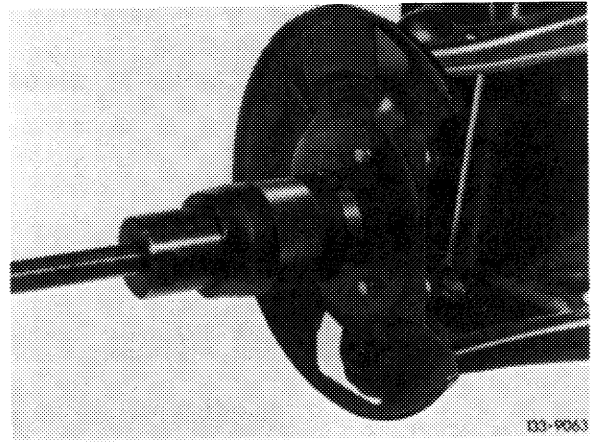
a) Pull tapered roller bearing inner race from steering knuckle.

b) Remove radial seal from steering knuckle.

6 Check kingpin (33–410).

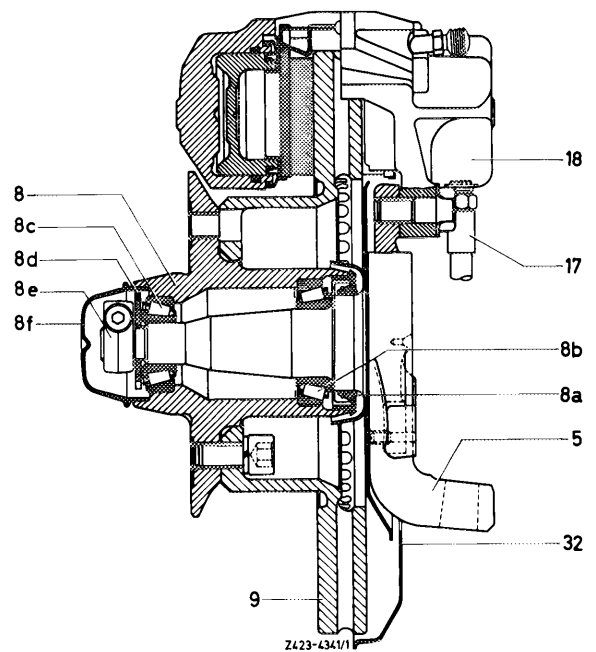
7 Check front wheel hub, tapered roller bearing and radial sealing ring (33–320).

8 Check brake disc (42–220).



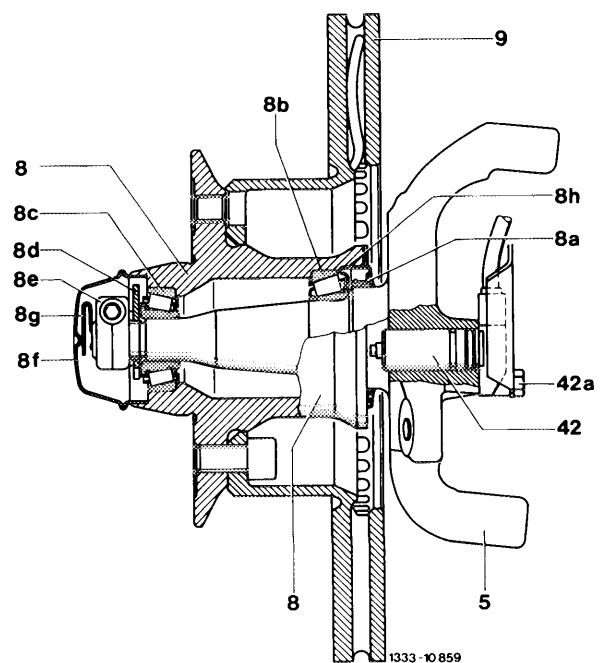
Installation

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 without ABS

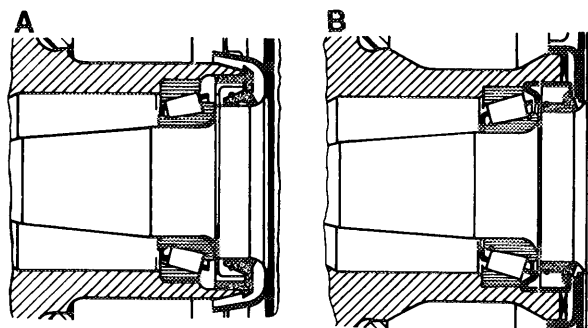
- | | |
|-----------------------------------|------------------|
| 5 Steering knuckle | 8e Clamping nut |
| 8 Wheel hub | 8f Wheel cap |
| 8a Radial sealing ring | 9 Brake disc |
| 8b Tapered roller bearing inside | 17 Brake hose |
| 8c Tapered roller bearing outside | 18 Fixed caliper |
| 8d Washer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



Front wheel hub with ABS

- | | |
|------------------------------------|---------------------|
| 5 Steering knuckle | 8f Wheel cap |
| 8 Wheel hub | 8h Pull-off plate |
| 8a Radial sealing ring | 9 Brake disc |
| 8b Tapered roller bearing, inside | 42 Rpm sensor |
| 8c Tapered roller bearing, outside | 42a Fastening screw |
| 8d Washer | |
| 8e Clamping nut | |

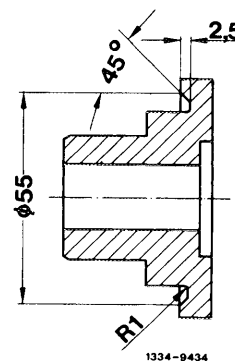
Note: On vehicles model 107 with ABS the radial sealing ring, part no. 003 997 93 46 is mounted together with a pull-off disc, part no. 111 334 00 64.



A Front wheel hub without ABS
B Front wheel hub with ABS

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For pressing-in radial sealing ring, changing the mounting member of the former special tool 107 589 00 43 00 is a self-made job.



Mounting member (change it yourself)

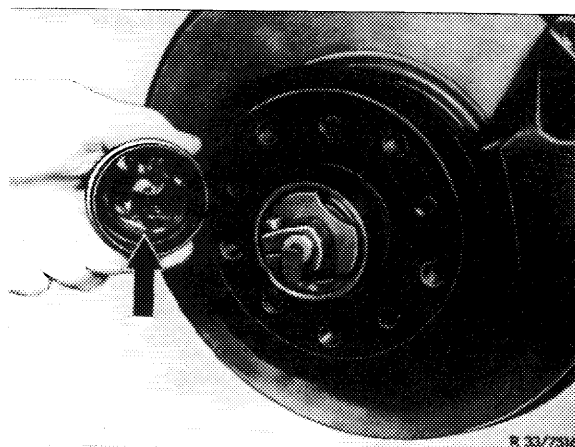
1334-9434

- 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.



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