

Data

Wheel bearing axial free play	0.01–0.02 mm
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Lubricants

For hub grease cap

Grease type: Multi-purpose grease or anti-friction bearing grease. See fuel, coolant and lubricant specifications, pages 267 and 265.

Grease amount: approx. 15 gr. (Approx. to edge of flange)

Tightening torque

		Nm	(kpm)
Hex. socket screw of clamping nut	M 6	14	(1.4)

Special tools

Removal and installation tool for hub grease cap	000 589 91 33 00
Holder for dial gauge for adjustment of wheel bearing axial free play	116 589 12 21 00

Commercially obtainable tools

Dial gauge A1 DIN 878	e.g. Messrs. Mahr, Esslingen. Order No. 810 St
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- 1 Jack up vehicle, remove front wheel.
- 2 Use special tool to remove hub grease cap (Fig. 1).

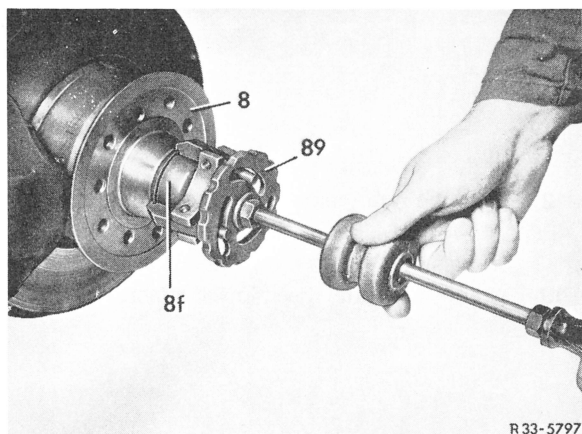


Fig. 1

8 Front wheel hub
8f Hub grease cap

89 Removal and
installation tool

- 3 Remove contact spring for radio interference suppression (Fig. 5).
- 4 Press brake pads away from brake disc ("Brakes, Steering" 42.1–160 or 42.2–160).

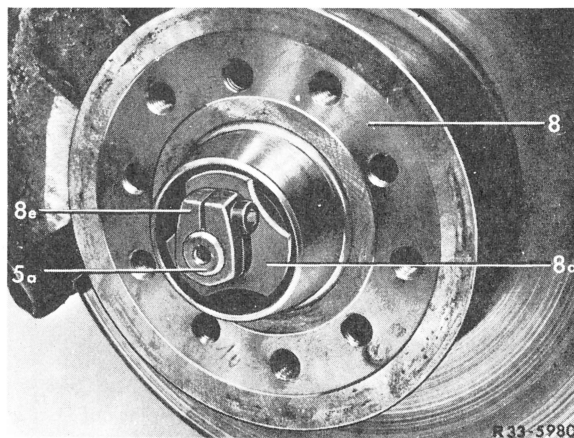


Fig. 2

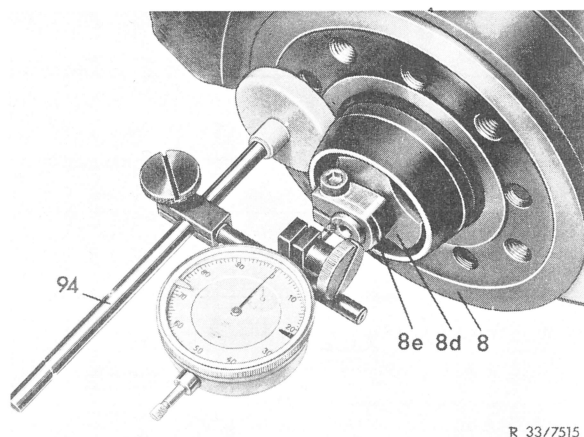
5a Steering knuckle spindle
8 Front wheel hub

8d Disc
8e Clamping nut

33.1 Adjustment of Wheel Bearing End Play

5 Loosen hex. socket screw of clamping nut (Fig. 2), then tighten the clamping nut while turning the hub until the hub turns only with difficulty. Turn the clamping nut back 1/3 turn and remove the tension by a blow on the steering knuckle spindle.

6 Attach the holder for the dial gauge to the front wheel hub and set the dial to approx. 2 mm pretension (Fig. 3).



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Fig. 3

8 Front wheel hub
8e Clamping nut

8d Disc
94 Holder

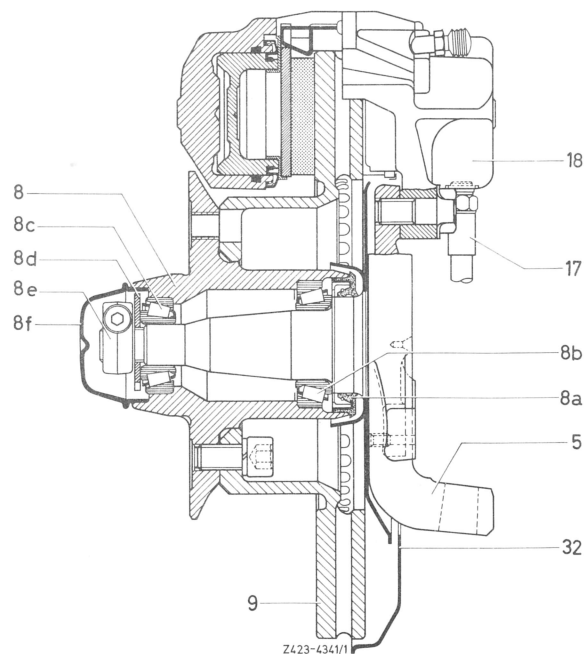


Fig. 4

5 Steering knuckle
8 Wheel hub
8a Radial sealing ring
8b Outer tapered roller bearing
8c Inner tapered roller bearing
8d Disc
8e Clamping nut
8f Hub grease cap
9 Brake disc
17 Brake hose
18 Brake caliper
32 Cover plate

7 Check the axial free play of the wheel hub by vigorous pushing and pulling on the flange.

Turn the wheel hub several times before every measurement.

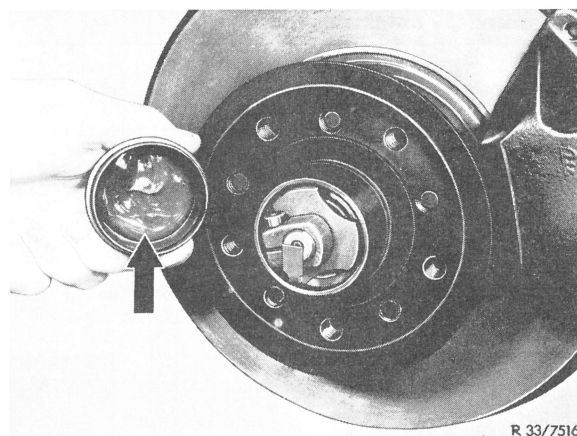
8 Tighten the hex. socket screw of the clamping nut and check the axial free play once again.

Note: When the axial free play of the wheel bearing is correctly adjusted, the disc located between the outer tapered roller bearing and the clamping nut should just be turnable with a finger. The wheel bearing axial free play should always be adjusted using a dial gauge.

9 Carry out an additional check by turning the disc between the inner ring of the outer tapered roller bearing and the clamping nut (Fig. 2).

10 Install the contact spring for radio interference suppression (Fig. 5).

11 Fill the wheel cap with the prescribed grease approx. up to the flange (Fig. 5).



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Fig. 5

12 Press the hub grease cap on, using the special tool. (Fig. 1).

13 Mount the front wheel, lower vehicle.