


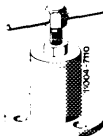
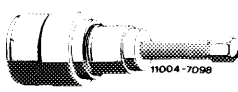
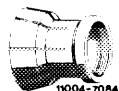
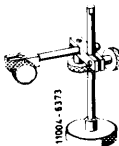
## Lubricant

Grease type	Multi-purpose grease or anti-friction bearing grease	Refer to „Specifications for Service Products“ page 267 or 265
Total capacity	approx. 60 g	Suitably weight required quantity of grease prior to assembling front wheel hub
In hub with bearing	approx. 45 g	Fill roller cages of tapered roller bearing well with grease. Also provide roller faces with grease
In hub cap	approx. 15 g	Fill approx. up to edge of bead

## Tightening torques

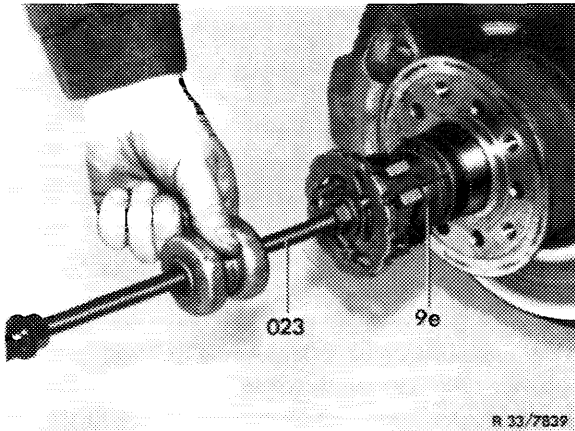
	Nm	(kpm)
Hex. bolts for caliper	115	(11.5)
Hex. socket screw of clamping nut	14	( 1.4)

## Special tools

Removing and mounting 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
Gripper for puller 001 589 36 33 00		000 589 00 34 00
Holder for dial gauge for adjusting wheel bearing end play		116 589 12 21 00

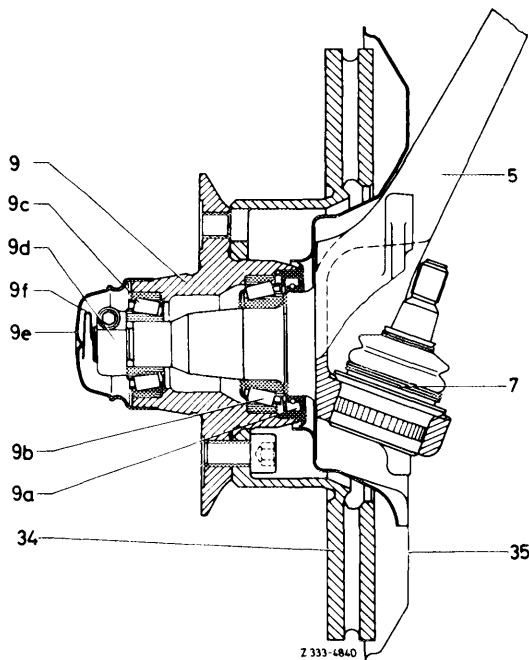
## Conventional tool

Dial gauge A 1 DIN 878	e. g. made by Mahr, D-7300 Esslingen, no. 810
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- Jack up vehicle, remove front wheel.
- Pull off hub cap with pertinent device.

9e Hub cap  
023 Removing and mounting device for hub cap

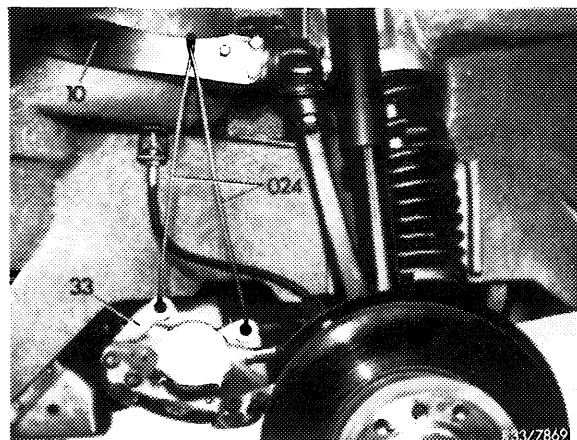


- Remove contact spring for radio suppressor.

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

- Unscrew caliper from steering knuckle and attach to wheel house with a suitable hook.

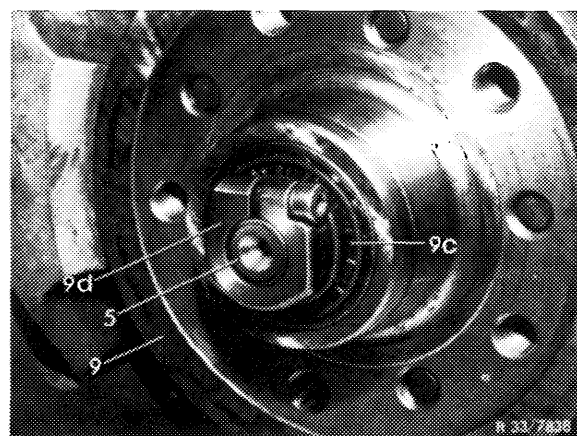
**Attention!** Do not expose brake hose to pulling stress.



10 Torsion bar  
33 Caliper

024 Hook

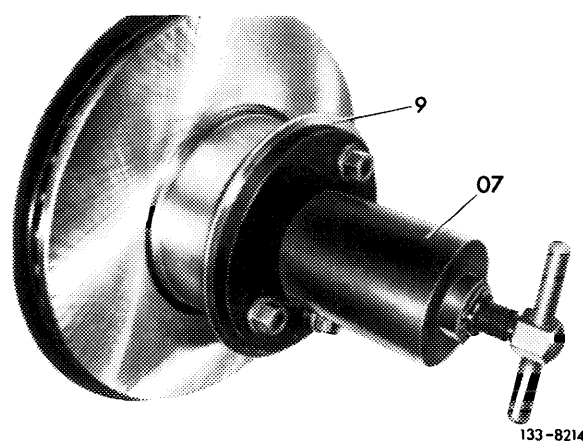
- Loosen hex. socket screw of clamping nut on wheel spindle, unscrew clamping nut.



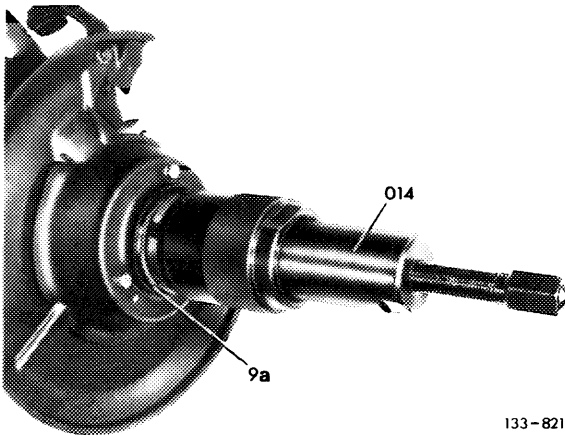
5 Wheel spindle  
9 Front wheel hub

9c Tapered roller bearing outside  
9d Clamping nut

- Pull off front wheel hub with brake disc, using puller, if required.



9 Front wheel hub  
07 Puller for front wheel hub



133-8215

9a Radial sealing ring  
014 Puller for tapered roller bearing inner race

- Additional jobs when tapered roller bearing inner race is stuck on steering knuckle:

Pull tapered roller bearing inner race from steering knuckle.

Remove radial sealing ring from steering knuckle.

- Remove inner race with roller cage of outer tapered roller bearing from hub.

- Remove radial sealing ring and take tapered roller bearing inner race with roller cage out of front wheel hub.

- Thoroughly wash tapered roller bearing and hub inside. Use clean detergent only.

- Check tapered roller bearing and bearing seats in hub.

For evaluating tapered roller bearings, the condition of the bearing inner race and bearing outer race surface, as well as of tapered roller faces is decisive.

Tapered roller bearings can still be used, provided:

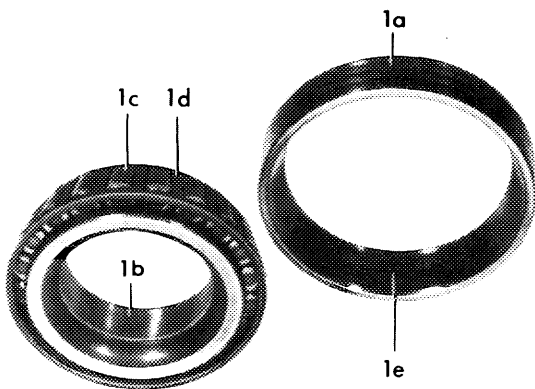
the tapered roller track of the outer race is smooth and grey.

Tapered roller bearings can **no longer** be used, if:

1. The tapered roller track in bearing outer race shows dents (caused by peeling on bearing inner race).
2. Rust has settled on tapered roller bearings (will occur whenever water enters the front wheel bearing caused by a defective radial sealing ring).
3. The bearing outer race has a light brown to blue color caused by excessive heating.

**Note:** In the event of a defective tapered roller bearing, be sure to replace also the other bearing of the respective hub.

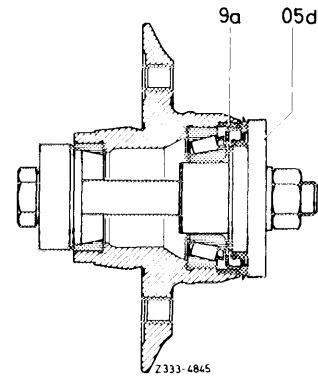
- Check condition of track for radial sealing ring on wheel spindle.



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1a Outer race  
1b Inner race  
1c Tapered rollers  
1d Roller cage  
1e Race

- Weigh specified quantity of grease for hub with bearing.
- Fill roller cage of inner tapered roller bearing well with grease, then insert inner race with roller cage into hub and provide roller faces with grease.
- Fill new radial sealing ring between sealing lip and dust lip with anti-friction bearing grease and coat with sealing compound on circumference, then press in with pertinent device.



- Fill front wheel hub with remaining grease.

**Note:** When there is too much grease, the subsequent squeezing pressure results in excessive heating of grease, which may then lose its lubricity. On the other hand, the quantity of grease should not be too small, since correct lubrication of tapered roller bearings will then no longer be assured.

Pressing-in radial sealing ring

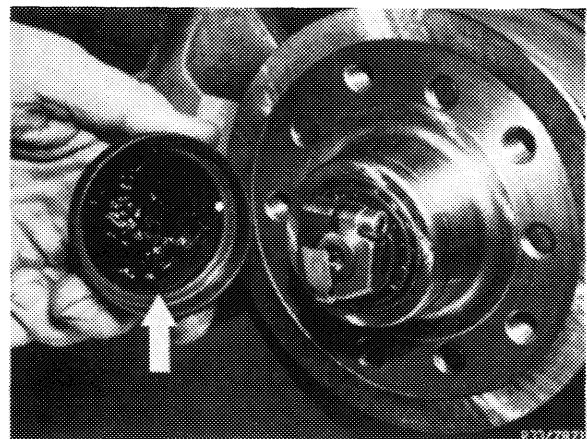
9a Radial sealing ring

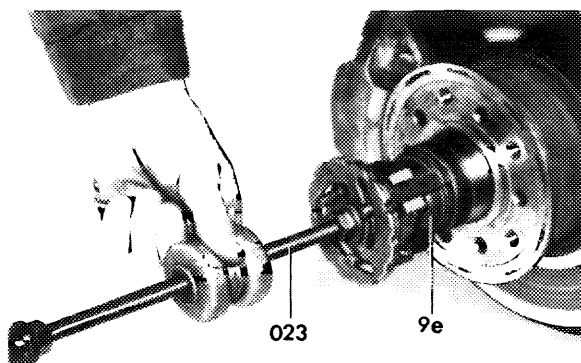
05d Thrust washer for radial sealing ring

- Thinly coat track for radial sealing ring on wheel spindle with anti-friction bearing grease.
- Push front wheel hub with screwed-on brake disc to wheel spindle, insert inner race with roller cage of outer tapered roller bearing and screw-on clamping nut.
- Adjust wheel bearing end play (job no. 630).
- Attach caliper with new locking plate to steering knuckle.

**Attention!** Do not twist or pull brake hose!

- Insert contact spring for radio suppression into wheel spindle.
- Fill hub cap with anti-friction bearing grease.





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9e Hub cap  
023 Pulling and mounting device for wheel cap

- Mount wheel cap with pertinent device.
- Mount front wheel, lower vehicle.