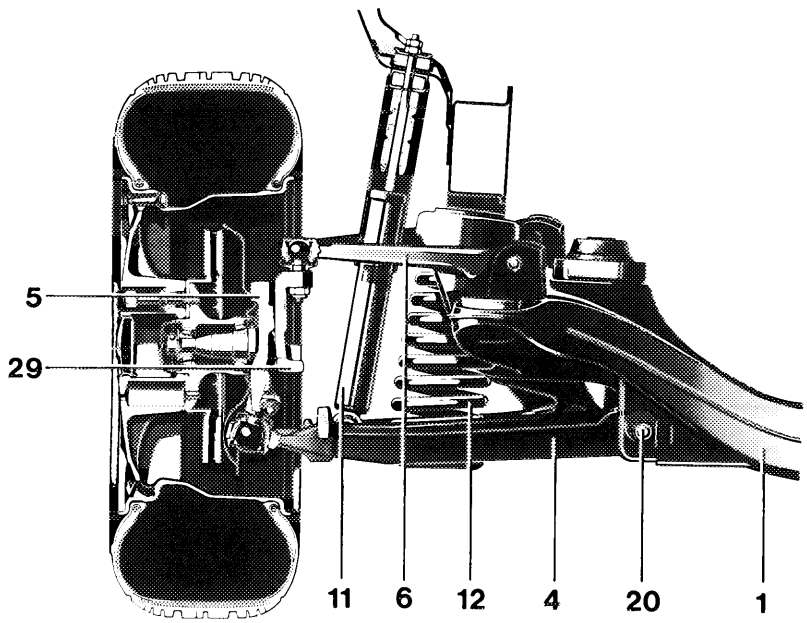
Front axle

Front axle model 107

Identical and modified parts from model 124 were used on the new front axle design.

The tire scrub-radius offset is reduced to approx. +8 mm, to further improve straight-line stability.



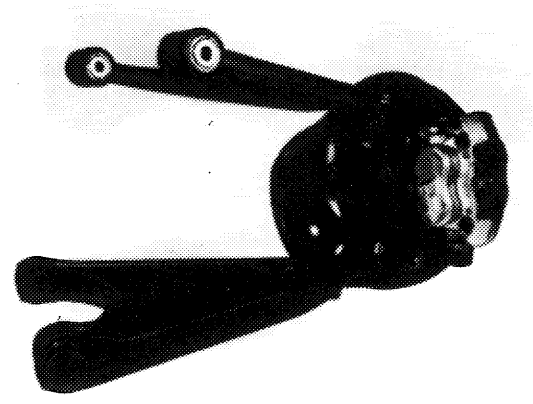
1333-13218

Fig. 33/1

1 Front axle carrier
4 Lower control arm
5 Steering knuckle
6 Upper control arm
11 Shock absorber
12 Front spring
20 Eccentric bolt, rear
29 Steering knuckle arm

The following parts were redesigned or are new:

- Front axle carrier
- Lower and upper control arm
- Steering knuckle
- Steering knuckle arm
- Front wheel hub with bearing



133-30712

Fig. 33/2

Front axle carrier

For compatability with all world-wide available engines in this chassis, the front axle carriers have a newly modified contour (arrow).
In case of repairs, this carrier replaces the previous version.

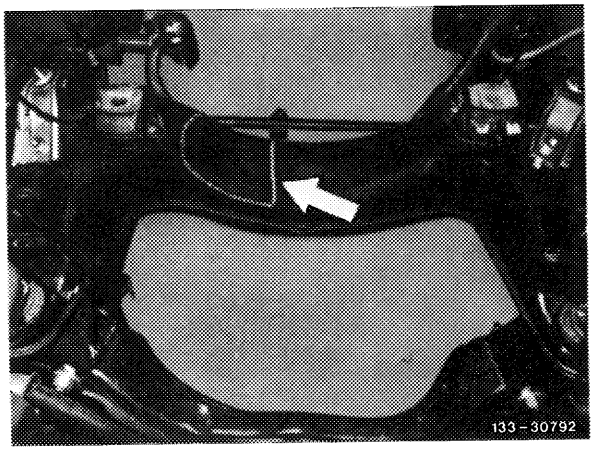


Fig. 33/3

Lower control arm

The lower control arm is lengthened and includes the replaceable lower ball joint from model 124 (Fig. 33/4).

The rubber bushings on the front axle carrier are the same as before. The stop bracket for max. steering lock is the same as on model 124.

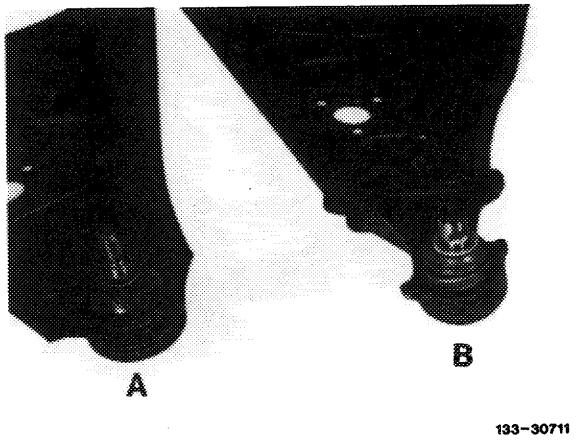


Fig. 33/4

A Old version B New version

Upper control arm

The control arm is now made of steel. The rubber bushings on the front axle carrier are the same as before.

The upper ball joint is connected to the control arm (Fig. 33/5). For removal of the ball joint, use special tool no. 186 589 10 33 00.

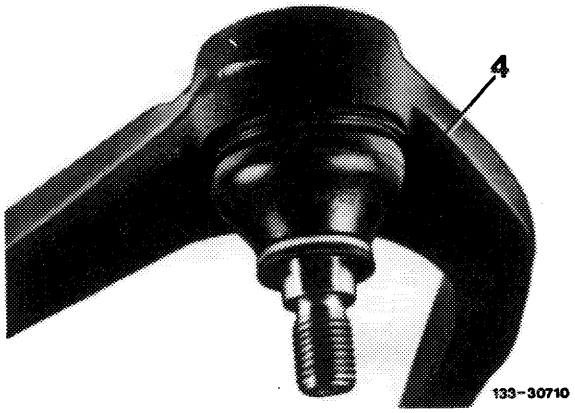


Fig. 33/5

4 Upper control arm

Steering knuckle

The tapered ball joint pin is attached to the tapered clamping bore of the steering knuckle. At the top the steering knuckle is attached to the ball joint bore of the steering knuckle arm.

Control measurements are the same as on model 124.

The maximum steering lock stop-screw has a plastic cap as on model 124.

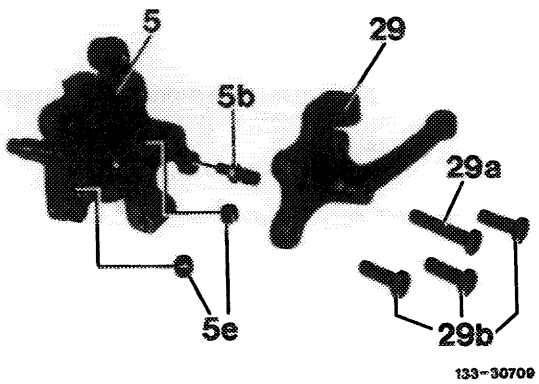


Fig. 33/6

5 Steering knuckle
5b Stop-screw
5e Locating sleeve
29 Steering knuckle arm
29a Self-locking screw (long)
29b Self-locking screws (short)

To prevent corrosion, following assembly, completely fill slot of clamping bore (arrow) with sealing compound, part no. 001 989 79 20.

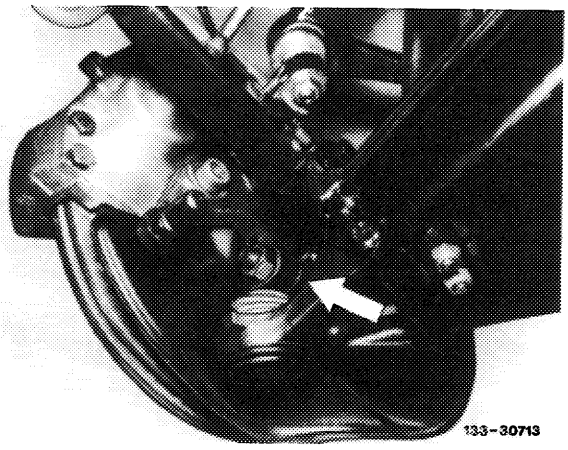


Fig. 33/7

Steering knuckle arm

Located on steering knuckle with 2 locating sleeves and fastened with 4 self-locking screws (Fig. 33/6).

To remove the ball joint from the tie rod use special tool no. 201 589 08 33 00.

Front wheel hub with bearing

Identical to models 124 and 201.034 (Fig. 33/8).

Grease quantity of front wheel bearing:

High-temperature bearing grease part no. 000 989 49 51 (150-g container).

Total capacity	approx. 65 g
Hub with bearing	approx. 50 g
Hub cap	approx. 15 g

Caution!
Use only MB high-temperature bearing grease, part no. 000 989 49 51 for all models.

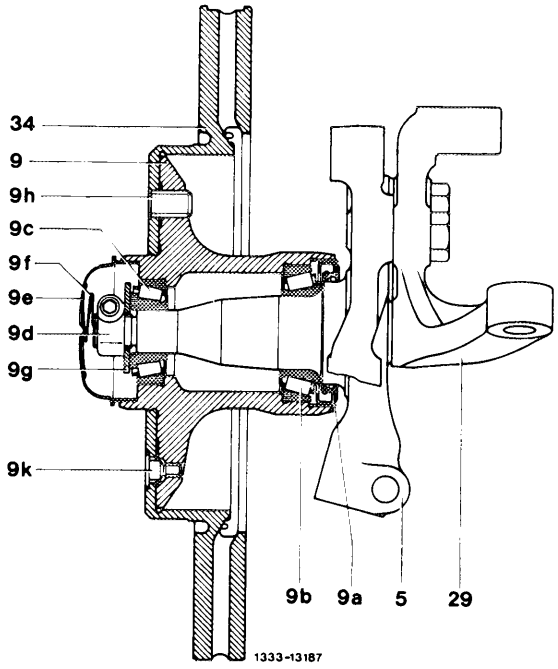


Fig. 33/8

5	Steering knuckle	9f	Contact spring
9	Front wheel hub	9g	Washer
9a	Radial seal	9h	Roll pin
9b	Tapered roller bearing, inner	9k	Lock screw
9c	Tapered roller bearing, outer	29	Steering knuckle arm
9d	Clamping nut	34	Brake disc
9e	Dust cap		

Tightening torques

Self-locking screws (steering knuckle arm to steering knuckle)	90 Nm
Clamping screw (lower ball joint to steering knuckle)	125 Nm
Stop-screw in steering knuckle	45 Nm
Nuts (eccentric screws on lower wishbone)	120 Nm
Screws of upper control arm bushing	60 Nm
Nut (upper ball joint on steering knuckle)	60 Nm