

**Data**

Bearing	Ball joint		
	Ball dia.	Ball shells	Inspection rule
Supporting joint	32	plastics	Ball pin should move without play, but also without clamping and squeaking noise
Guide joint	30		

**Note**

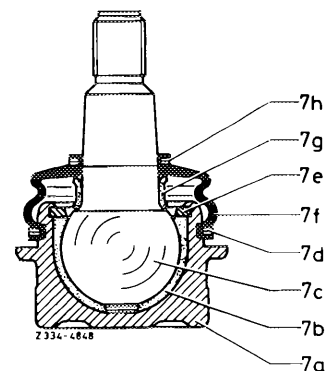
The supporting joint (below) and the guide joint (at top) of steering knuckle bearing are ball joints mounted in plastic shells.

The housing of the supporting joint is pressed into steering knuckle, while the guide joint is located in upper control arm.

The ball joints are maintenance-free, that is, they are provided for life with grease. On a maintenance-free joint the seal against the entry of dirt and sand is of decisive importance for the life of the joint. For this reason it is necessary to check the joints carefully from time to time. If dirt enters through a leaking sleeve while driving, this dirt will definitely result in early wear of respective joint.

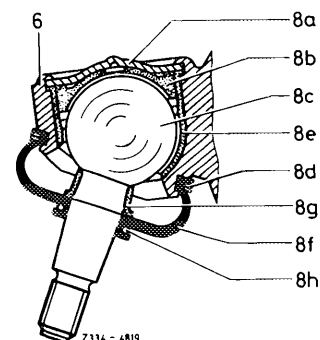
**Supporting joint**

- 7a Housing
- 7b Ball shell
- 7c Ball pin
- 7d Wire clamping ring
- 7e Washer
- 7f Sleeve
- 7g Supporting ring
- 7h Wire clamping ring



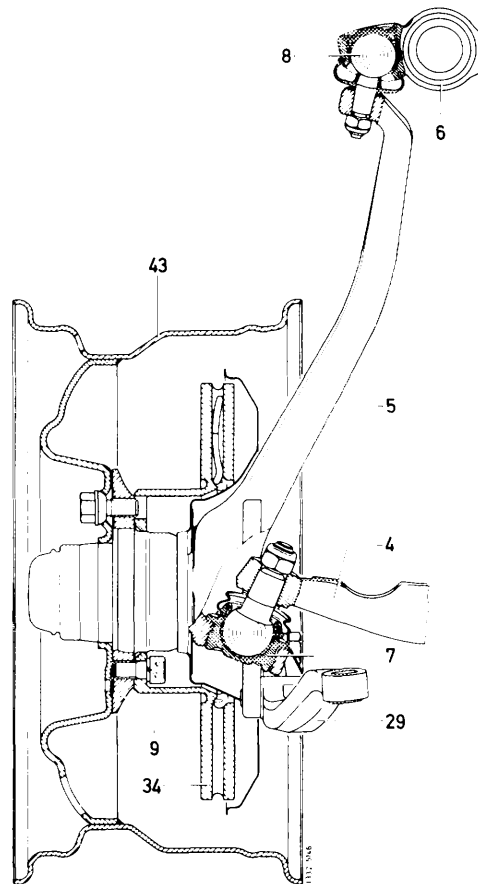
**Guide joint**

- 6 Upper control arm
- 8a End cover
- 8b Upper ball shell
- 8c Ball pin
- 8d Wire clamping ring
- 8e Ball shell
- 8f Sleeve
- 8g Supporting ring
- 8h Wire clamping ring



Any rubber sleeve damaged during assembly jobs should therefore be replaced immediately. **Be sure to replace any joint carrying a leaking sleeve.**

When a guide joint is defective, the complete upper control arm must be replaced.

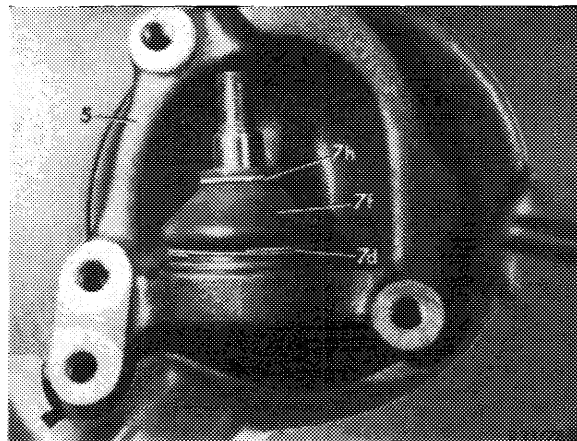


- 4 Lower control arm
- 5 Steering knuckle
- 6 Upper control arm
- 7 Supporting joint
- 8 Guide joint
- 9 Front wheel hub
- 29 Steering knuckle arm
- 34 Brake disc
- 43 Disc wheel

**Inspection**

1 Check ball joints by placing a tube approx. 150 mm long on ball pin (refer to data).

2 Check supporting joint for tight seat in steering knuckle.

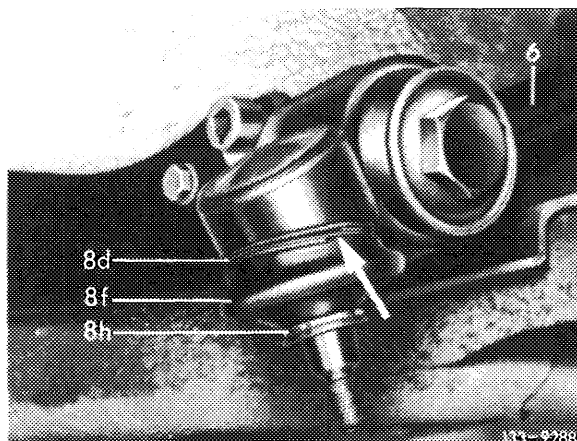


- Supporting joint
- 5 Steering knuckle
- 7d Wire clamping ring
- 7f Sleeve
- 7h Wire clamping ring

3 Check sleeve (7f or 8f) for cracks and damage, check wire clamping ring (7d or 8d) and wire clamping ring (7f or 8h) for correct seat.

**Attention!**

Cutting point of wire clamping ring on guide joint should point in driving direction.



- Guide joint
- 6 Upper control arm
- 8d Wire clamping ring
- 8f Sleeve
- 8h Wire clamping ring