

33–560 Checking upper control arm

Data

Permissible distortion of ball pin for guide joint	0.5
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Special tool

Mounting for guide joint (concentricity test)		116 589 05 31 00
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Assembly sleeve for wire clamping ring on sleeve of guide joint		116 589 02 14 00
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Conventional tools

Measuring stand	e.g. made by Bosch, D-7000 Stgt. Feuerbach order No. 0 601 980 001
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Dial gauge A 1 DIN 878	e.g. made by Mahr, D-7300 Esslingen order No. 810
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Note

Checkup of upper control arm includes checking distortion of ball pin in guide joint.

Checking

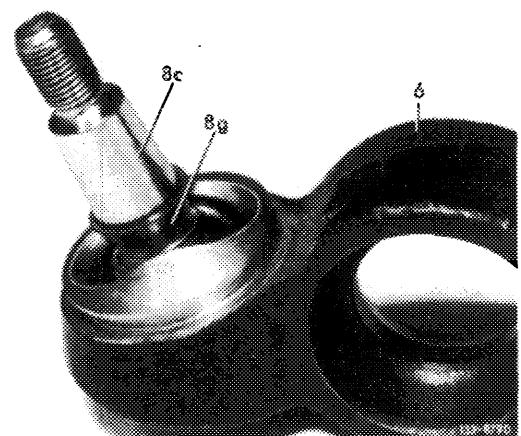
1 Take-off sleeve of guide joint and remove lubricant supply (33.2–430).

Attention!

Do not wash out guide joint.

2 Check supporting ring of guide joint.

6 Upper control arm
8c Ball pin
8g Supporting ring

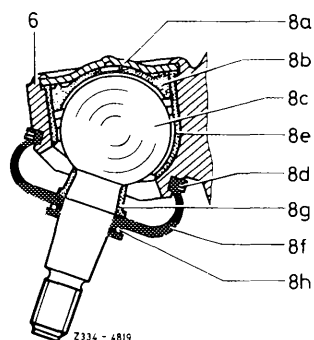


Note: The supporting ring may have become damaged by excessive deflection of ball pin. In such a case, renew control arm and check steering knuckle (33.2–410).

Contact marks of control arm on supporting ring are of no significance.

Guide joint

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



Note: If supporting ring is undamaged, check ball pin for distortion.

3 Clamp mounting ring (051) in a lathe chuck.

4 Introduce ball pin into mounting ring (051) and press-on.

5 Position dial gauge with 1 mm preload at upper control arm and measure distortion of ball pin at approx. 25/min.

If ball pin is distorted beyond permissible dimension, renew control arm and check steering knuckle (33–410).

