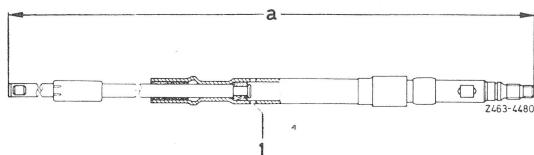


Data

Length "a" of steering spindle (reference dimension)	684
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Tightening Torques in kpm

Hex nut for attaching steering wheel to steering spindle	5
Hexagon socket screw to steering coupling	2.5

Notes

Since the outer diameter of the closing ring of the steering spindle is larger than the inner diameter of the needle bearing in the bearing body, the steering spindle must be removed together with the bearing body.

Removal

1 Unscrew upper hexagon socket screw (13) from steering coupling (12) with a double joint spanner (Fig. 1).

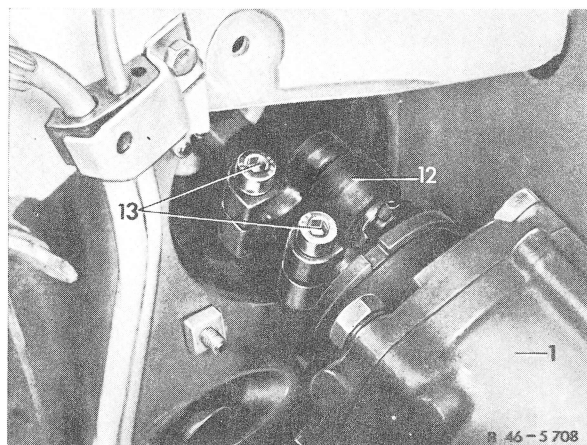


Fig. 1

- 1 Steering
12 Steering coupling
13 Hexagon socket screw

2 Remove steering wheel (46.1-610).

3 Remove rubber cover (11) for combination switch (10) from jacket tube. Unscrew switch on bearing body (12) and pull out slightly (Fig. 3).

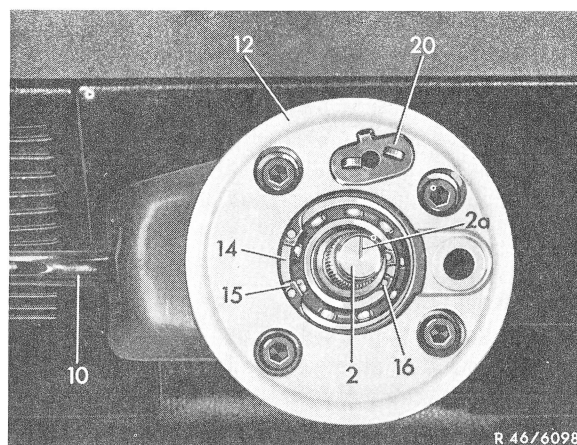


Fig. 2

- 2 Steering spindle
2a Marking on steering spindle
10 Combination switch
12 Bearing body
14 Radial ball bearing
15 Locking ring
16 Locking ring
20 Contact carbon

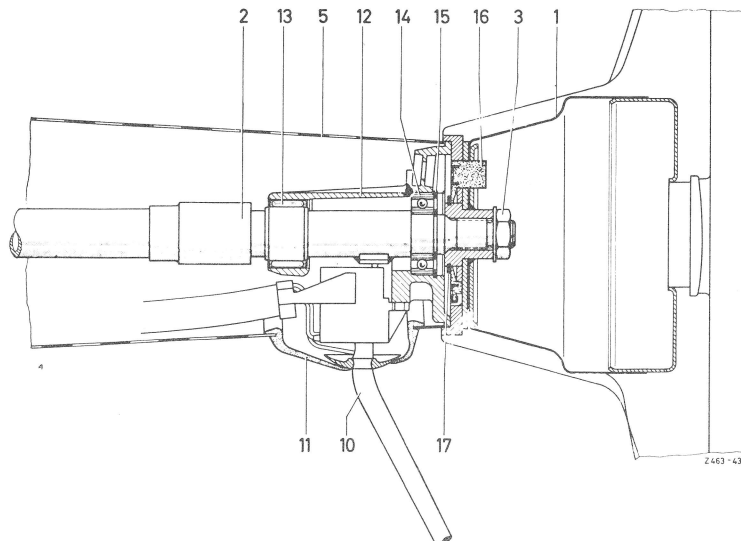
4 Disconnect both cables of contact carbon (20) on combination switch (10) (Fig. 2).

5 Unscrew hexagon socket screws from jacket tube and pull steering spindle (2) together with bearing body (12) in upward direction out of jacket tube (Fig. 2).

46.1 Removal and Installation of Steering Spindle

Fig. 3

- 1 Steering wheel
- 2 Steering spindle
- 3 Hex nut with spring washer
- 5 Jacket tube
- 10 Combination switch
- 11 Rubber cover
- 12 Bearing body
- 13 Needle bearing
- 14 Radial ball bearing
- 15 Locking ring
- 16 Slip ring
- 17 Locking ring



6 Remove locking ring (17) for radial ball bearing (14) from steering spindle (2) and knock steering spindle out of bearing body (12) in downward direction by means of a plastic hammer (Fig. 3).

11 Introduce steering spindle (2) including bearing body (12) into jacket tube (5) and steering coupling. Make sure that the wheels are in straight ahead position and that the restoring cam for the combination switch (10) is in the center of the cutout on the jacket tube. In addition, the notch on the steering spindle should point upward (Fig. 3).

Inspection

7 Check radial ball bearing for wear and replace, if required.

8 Check telescopic connection of steering spindle. The steering spindle should telescope in axial direction only at approx. 80 kp.

Check length of steering spindle and adjust. For this purpose, attach an old steering coupling to steering spindle and adjust steering spindle to required dimension by means of light blows with a plastic hammer.

9 Check needle bearing (13) in bearing body (12) and replace needle bearing, if required (Fig. 3).

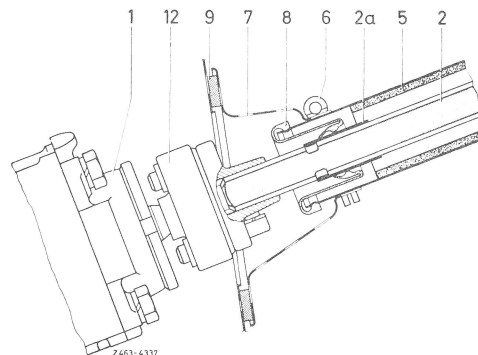


Fig. 4

- 1 Steering
- 2 Steering spindle
- 2a Plastic sealing ring
- 5 Jacket tube
- 6 Fastening clip
- 7 Cover plate
- 8 Rubber sleeve
- 9 Sealing shim
- 12 Steering coupling

Installation

The steering spindle should not be displaced axially when inserted into steering coupling. In addition, make sure that the sleeve (8) is not damaged or pushed away from jacket tube (Fig. 4).

10 Prior to introducing steering spindle (2), coat running surface of plastic sealing ring (2 a) within range of rubber sleeve (8) with acid-free grease.

12 Attach bearing body (12) to jacket tube (5) by means of hexagon socket bolts (Fig. 3).

13 Check longitudinal adjustment of steering spindle through bore in jacket tube (5). For this purpose, insert assembly pin (25) into pertinent checkup bore of steering spindle (Fig. 5).

The assembly pin should easily enter the inspection bore.

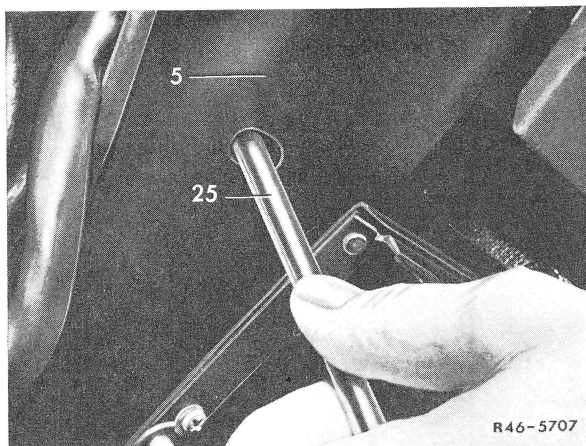


Fig. 5

5 Jacket tube

25 Assembly pin

14 Screw upper hexagon socket screw into steering coupling and tighten. Tightening torque 2.5 kpm (reference value).

15 Install steering wheel.

16 Check steering lock for function.

17 Connect cable of sliding carbon to combination switch, install combination switch and check for function. Insert rubber cover into jacket tube.