

Color Code of Sealing Rings

| | |
|--|-------|
| Lefthand sealing ring with spiral threads | red |
| Righthand sealing ring with spiral threads | green |
| Sealing ring without spiral threads | black |

Tightening Torques

| | Nm | (kpm) |
|--|----|-------|
| Hex. bolt for attaching rear axle shaft to rear axle shaft flange | 95 | (9,5) |
| Hex. bolts for attaching end cover to rear axle housing | 45 | (4,5) |
| Hexagon socket bolt for attaching rear rubber mount to frame floor | 25 | (2,5) |

Special Tool

| | |
|---------------------------------------|------------------|
| Installation mandrel for sealing ring | 116 589 05 43 00 |
|---------------------------------------|------------------|

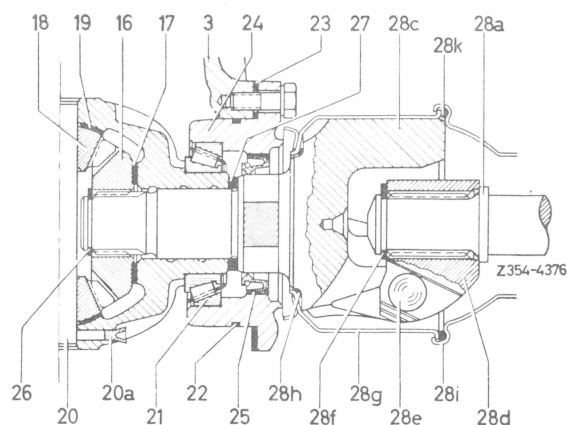


Fig. 1

- | | |
|---------------------------|----------------------------|
| 3 Rear axle housing | 26 Locking ring |
| 16 Side gear | 27 Spacer ring |
| 17 Thrust washer | 28a Rear axle shaft |
| 18 Differential pinion | 28c Inner universal spider |
| 19 Spherical washer | 28d Universal spider hub |
| 20 Compensating pin | 28e Ball |
| 20a Clamping sleeve | 28f Locking ring |
| 21 Tapered roller bearing | 28g Protective sleeve |
| 22 Sealing ring | 28h Sealing ring |
| 23 Compensating washer | 28i Stop sleeve |
| 24 Bearing cap | 28k Sealing ring |
| 25 Sealing ring | |

Note

Thoroughly clean rear axle housing in range of bearing cap so that no dirt can enter the rear axle housing.

Removal

- 1 Completely remove rear axle shaft on pertinent side (35.1–220).

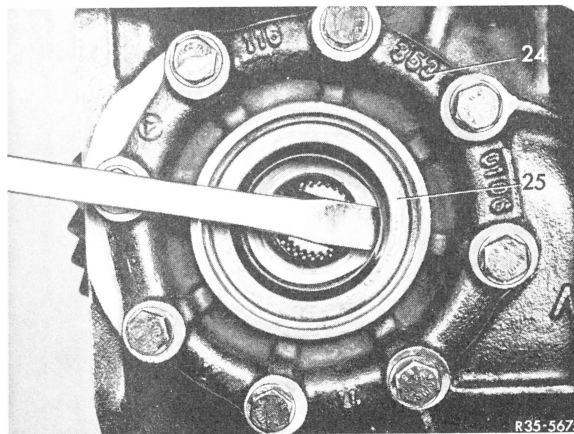


Fig. 2

24 Bearing cap

25 Sealing ring

35.1

Change of Sealing Ring on Bearing Caps of Rear Axle Housing

2 Force sealing ring out of bearing cap by means of a screw driver (Fig. 2).

3 Check running surface for sealing ring on inner universal spider and replace rear axle shaft, if required.

Installation

The sealing rings are provided with an oil return flow spiral which differs depending on installation ends.

The sealing ring for the left end is marked in red, the sealing ring for the right end is marked in green.

Never mix up sealing rings, since this might produce a suction effect.

4 Coat new sealing ring on outside diameter with sealing compound and knock in with installation mandrel until it is flush with bearing cap (Fig. 3).

5 Install rear axle shaft complete with spacer ring and use a new locking ring between the universal spider and the side gear (35.1-220).

6 Check end play between inner universal spider and differential housing.

There should be no perceptible end play; turning the locking ring in the groove should still be possible. If required, use pertinently thicker or thinner spacer ring.

7 Fill rear axle housing with oil up to level of filler hole.

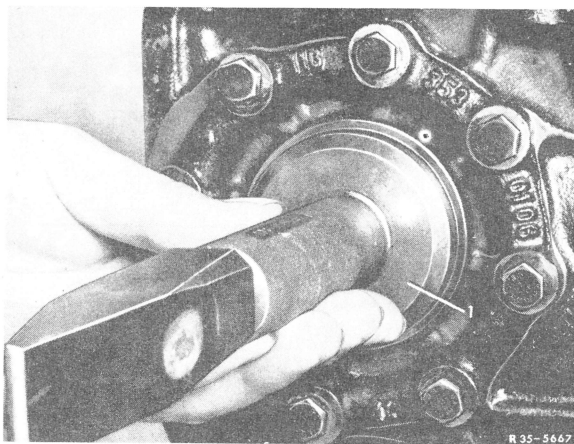


Fig. 3

1 Installation mandrel