

# Removal and Installation of Propeller Shaft

Type 220a

Operation No.
GW 1a

## Special Tools:

Test tool for checking true run of three arm flange on transmission and rear axle 136 589 04 21

Fork for inserting the propeller shaft 120 589 02 61

run. Use test tool 136 589 04 21 and a dial gauge. When checked at the outer radius of the flange, the out of true must not be more than 0.03 mm (0.0012"). See also Operation No. G 3/73.

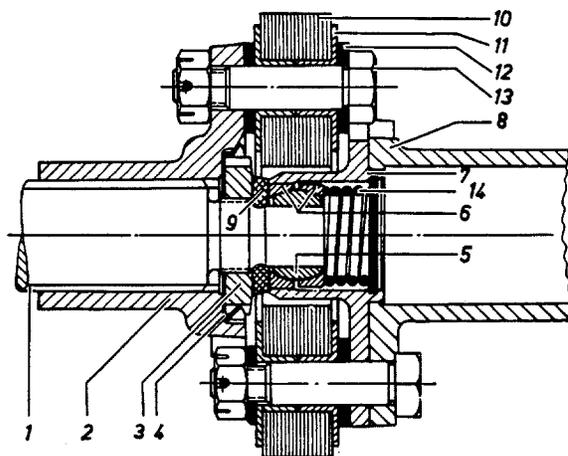


Fig. GW 1a/01

- |                                   |                         |
|-----------------------------------|-------------------------|
| 1 Mainshaft                       | 8 Propeller shaft       |
| 2 Three-arm flange                | 9 Sealing ring          |
| 3 Slotted nut                     | 10 Shaft plate          |
| 4 Lock plate                      | 11 Sleeve               |
| 5 Centering ball                  | 12 Shim                 |
| 6 Ball socket                     | 13 Pilot screw with nut |
| 7 Centering star with lock washer | 14 Pressure spring      |

## Procedure:

1. Jack up rear end of car, take the wheels off and remove rear axle (see Operation No. H 1a).
2. Separate propeller shaft from transmission leaving the shaft plate (flexible plate) on the transmission (see Fig. GW 1a/01).
3. Unscrew cover plate and screws from propeller shaft center bearing (Fig. GW 1a/3).
4. Pull propeller shaft out towards the rear. Raise center bearing and front section of propeller shaft with fork 120 589 02 61 to prevent that the shaft gets stuck in the tunnel webs.
5. Before installing the propeller shaft check flange on transmission and rear axle for true

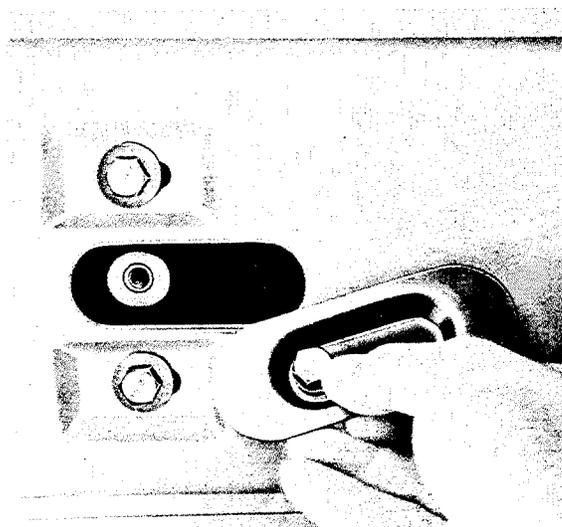


Fig. GW 1a/3

6. Installation is effected in reverse order of removal. When inserting the propeller shaft into the tunnel be careful that the brake cable is taut and lies on the left side (as seen in direction of travel). This is to avoid that the cable will be wound around the shaft as then the shaft would have to be removed again.

Fill hollow space in centering star of propeller shaft at transmission liberally with grease.

Do not forget sealing ring (9) between slotted nut and centering star on transmission and rear axle (see Fig. GW 1a/01).

**Note:** Tighten propeller shaft center bearing only after propeller shaft has been flanged to transmission and rear axle.

7. After propeller shaft and rear axle have been installed, vent brake system, adjust hand brake and check camber of rear wheels.

GW 1a