

PROPELLER SHAFT

Remove and refit

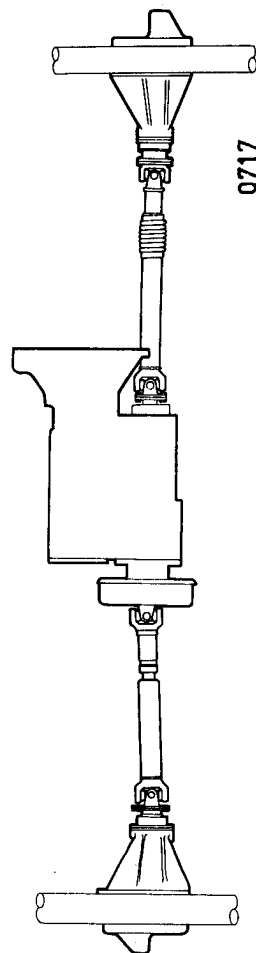
Front propeller shaft 47.15.02
Rear propeller shaft 47.15.03

Removing

- 1 Disconnect the propeller shaft from the axle and gearbox.
- 2 Withdraw the propeller shaft.

Refitting

- 3 Locate the propeller shaft in position ensuring that the sliding member is fitted towards the front of the vehicle.
- 4 Fit the securing nuts and bolts to the axle and gearbox flanges. Torque 4,2 to 5,2 kgf. m (30 to 38 lbf. ft.)



PROPELLER SHAFT

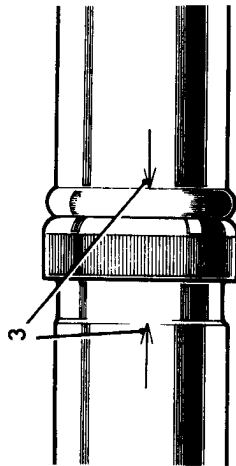
Overhaul

Front propeller shaft 47.15.11
Rear propeller shaft 47.15.12

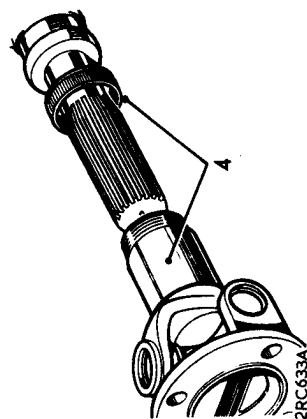
Dismantling

- 1 Remove the propeller shaft from the vehicle.
- 2 If a gaiter encloses the sliding member release the two securing clips. Slide the gaiter along the shaft to expose the sliding member.
- 3 Note the alignment markings on the sliding member and the propeller shaft.
- 4 Unscrew the dust cap and withdraw the sliding member.
- 5 Clean and examine the splines for wear. Worn splines or excessive backlash will necessitate propeller shaft renewal.
- 6 Remove paint, rust, etc. from the vicinity of the universal joint bearing cups and circlips.
- 7 Remove the circlips, and grease nipple.

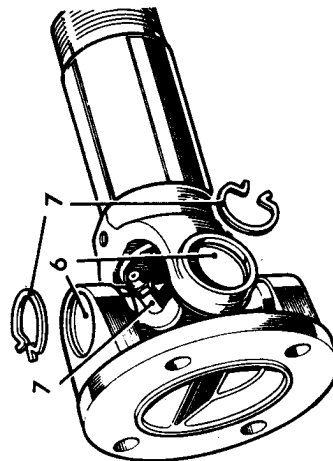
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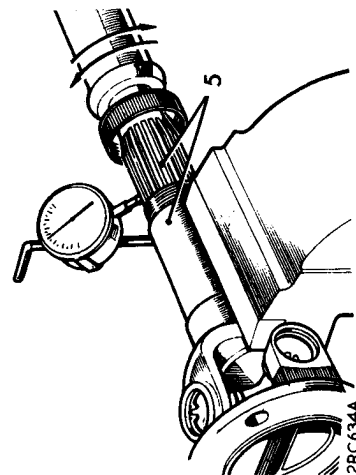
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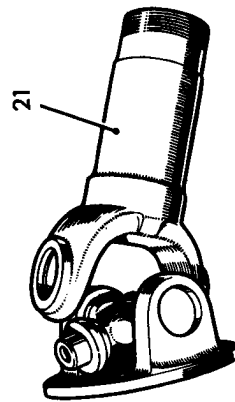
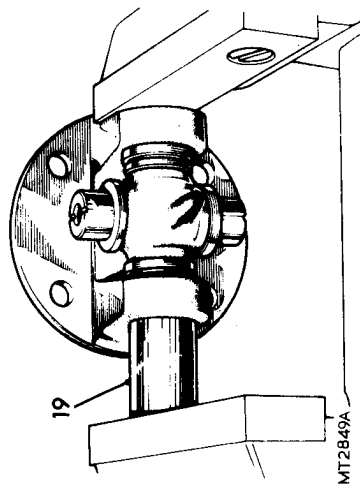
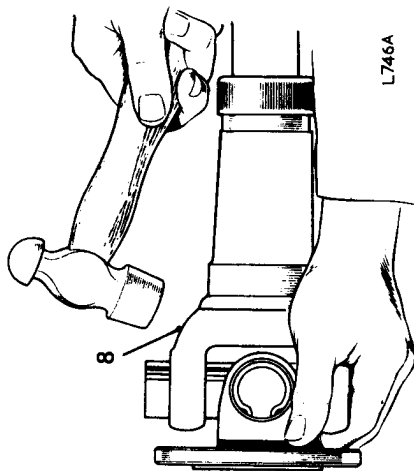


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- 8 Tap the yokes to eject the bearing cups.
- 9 Withdraw the bearing cups and spider and discard.
- 10 Repeat instructions 5 to 8 at opposite end of propeller shaft.
- 11 Thoroughly clean the yokes and bearing cup locations.

Assembling

- 12 Remove the bearing cups from the new spider.
- 13 Check that all needle rollers are present and are properly positioned in the bearing cups.
- 14 Ensure bearing cups are one third full of fresh lubricant.
- 15 Enter the new spider complete with seals into the yokes of the sliding member flange. Ensure that the grease nipple hole faces away from the flange.
- 16 Partially insert one bearing cup into a flange yoke and enter the spider trunnion into the bearing cup taking care not to dislodge the needle rollers.
- 17 Insert the opposite bearing cup into the flange yoke. Using a vice, carefully press both cups into place taking care to engage the spider trunnion without dislodging the needle rollers.
- 18 Remove the flange and spider from the vice.
- 19 Using a flat faced adaptor of slightly smaller diameter than the bearing cups press each cup into its respective yoke until they reach the lower land of the circlip grooves. Do not press the bearing cups below this point or damage may be caused to the cups and seals.
- 20 Fit the circlips.
- 21 Engage the spider in the yokes of the sliding member. Fit the bearing cups and circlips as described in instructions 15 to 20.
- 22 Lubricate the sliding member spines and fit the sliding member to the propeller shaft ensuring that the markings on both the sliding member and propeller shaft align.



- 23 Fit and tighten the dust cap.
- 24 Fit the grease nipples to the spider and the sliding member and lubricate.
- 25 Slide the gaiter (if fitted) over the sliding member.
- 26 Locate the sliding member in the mid-position of its travel and secure the gaiter clips. Note that the gaiter clips must be positioned at 180° to each other so that they will not influence propeller shaft balance.
- 27 Apply instructions 15 to 20 to the opposite end of the propeller shaft.
- 28 Fit the grease nipple and lubricate.
- 29 Fit the propeller shaft to the vehicle.

