

CHAPTER 3

PROPELLER SHAFT & UNIVERSAL JOINT

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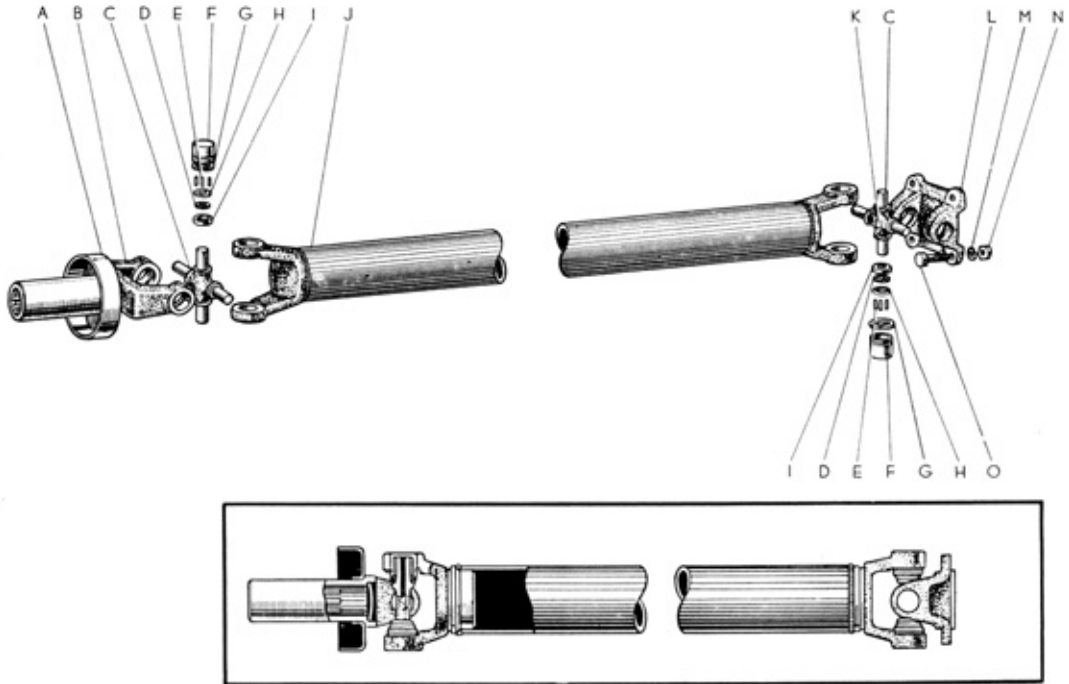


Fig.3-1 Propeller Shaft & Universal Joint

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|---|---|
| A Front Yoke Dust Cover | I Universal Joint Needle Roller Bearing Cover |
| B Front Joint Yoke Complete | J Propeller Shaft Complete |
| C Universal Joint Spider | K Stop |
| D Universal Joint Needle Roller Oil Seal Cork | L Universal Joint Yoke |
| E Universal Joint Needle Roller | M Spring Washer |
| F Universal Joint Needle Roller Cup | N Nut |
| G Universal Joint Snap Ring | O Bolt |
| H Universal Joint Needle Roller Oil Seal Outer Ring | |

Removal

1. Remove four bolts attaching universal joint yoke to the differential joint yoke retainer and disconnet yoke from the retainer.
2. Pull the propeller shaft toward the rear of the vehicle until front joint yoke clears the transmission extension housing.

Installation

1. Supply gear oil to the spline of front joint yoke.
2. Insert front yoke into the spline shaft.
Note: Take care not to score extension housing oil retainer and felt ring.
3. Connect rear joint yoke to the rear retainer.

Disassembly

1. Mark the joint yoke and the propeller shaft.
2. Remove universal joint snap rings.
3. With a drift about the same size as the needle roller cup, press the cup through the yoke. Remove opposite roller cup partially forced out.
4. Remove universal joint yoke together with spider from the propeller shaft.
5. To remove the spider from universal joint yoke, hold the joint yoke with a vise and press the roller cup out of yoke using a drift.
6. On the front universal joint, repeat the same procedure.

Inspection

1. Inspect the spline of front joint yoke. If found damaged or worn, replace front joint yoke.
2. Inspect the journal face of spider. If found damaged, worn and rusted, replace spider. Make sure, by blowing with compressed air, that the grease passage in spider is not clogged.
3. Inspect needle rollers. If found rusted or excessively worn, replace with new ones.

Assembly

Note: Never fail to replace oil seal corks and seal rings.

1. Coat 20 needle rollers with bearing grease, and place them in the roller cup.
2. Install new oil seal outer ring and seal cork into the roller cup.
3. Place spider in the yoke and press in the needle roller cups.

Note:

a. Take care not to score oil seal cork and seal ring.

b. Fit the mark when disassembling.

4. Install joint snap rings.
Snap ring must be selected so as to give the play which is less than 0.05mm (0.002"). Snap rings are available in four different thicknesses.

Thickness of Universal Joint Snap Ring.

No.1	1.20mm (0.047")
No.2	1.25mm (0.049")
No.3	1.30mm (0.051")
No.4	1.35mm (0.053")