

Fig. 10. Exploded view of Universal joint

Under some operating conditions, joints may have become corroded round the shafts and bearings.

In these cases it may be necessary to support the joint between two blocks of wood, thus enabling a slightly heavier blow to be administered to the yoke. Take care not to damage any machined surface.

The needle bearing assembly will gradually emerge and can finally be removed with the fingers. Be sure to hold the assembly in a vertical position and when free remove roller bearing housing from the bottom side so as to avoid dropping the needle rollers.

Repeat this operation for the opposite bearing.

Support the two exposed journal pegs on lead blocks (to protect ground surface) and tap the ears of the flange yoke to remove the race.

Reverse assembly and repeat the operation.

Wash all parts in petrol or paraffin and inspect for wear.

If parts are not worn, repack with Retinax "A". Make sure that the joints of all channels are filled with lubricant. With the rollers in position fill the race about one-third full. Should any difficulty be encountered when assembling the needle roller, smear the wall of the housing with vaseline. Install the new gasket retainers on the journal assembly. The journal shoulders should be coated with shellac or other suitable jointing prior to fitting retainers so as to ensure a good oil seal.

To reassemble (See Figs. 10 and 11)

It is recommended that a replacement journal should be of the type fitted with a grease nipple for lubrication.

Where the original journal does not carry a grease nipple it will be necessary to modify the drive shaft as follows:—

1. Carefully file the shaft for an area of approximately 1 in. (25 mm.) wide as at "B" (Fig. 11) until there is a clearance of $\frac{1}{32}$ in. (10.3 mm.) at position "A" (Fig. 11). This should be measured by holding a straight edge across the bottom of the bearing bores in the shaft.

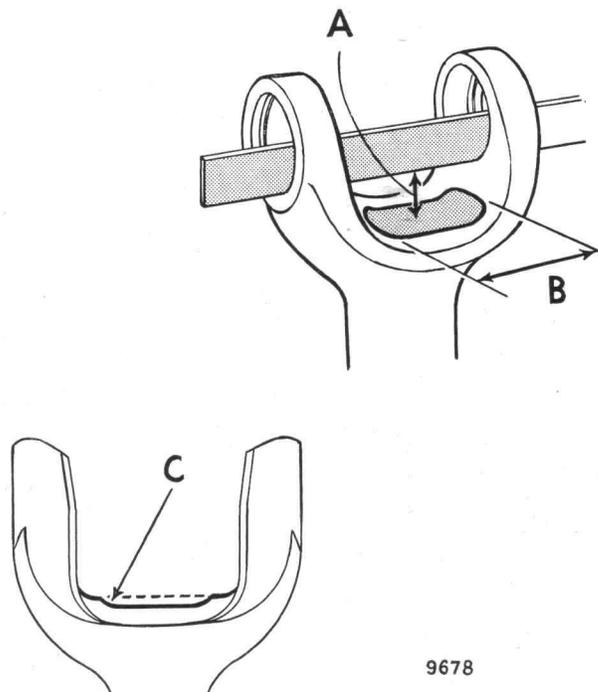


Fig. 11. Drive shaft modification and method of checking clearance

9678