

ROLLS-ROYCE AUTOMATIC GEARBOX

SECTION 11 — SPEEDOMETER DRIVE

The speedometer drive (see Fig. 92) is secured to the gearbox rear extension by two setscrews; its removal is straightforward and no other gearbox units need be disturbed.

Several different types of speedometer drives are in use; when ordering spares, consult the Spares Schedule in order to obtain the correct item for a particular model.

The overhaul procedure for speedometer drives is quite simple and the same procedure can be followed for all models.

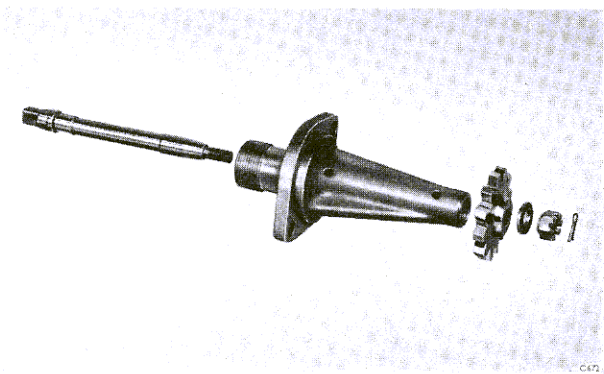


Fig. 92 Speedometer drive—exploded

Speedometer drive — To remove

Disconnect the speedometer cable by unscrewing the knurled nut at the gearbox end and withdraw the cable. If the speedometer drive is to be removed for a considerable length of time, mask the open end of the drive cable to exclude dust. Remove the two retaining setscrews and washers and withdraw the speedometer drive.

Speedometer drive — To dismantle

Before dismantling the unit, spin the shaft and check for any run out of the gear; if eccentric renew the shaft. Remove the split pin, castellated nut and washer, then drive out the shaft from its housing and off the gear, by giving it a sharp blow with a soft-headed mallet.

Speedometer drive — To inspect

Clean off the jointing compound from both joint faces and wash the dismantled parts with a suitable cleaning fluid. Examine the gear teeth for knocks and signs of excessive wear. Examine the squared end of the shaft for cracks and the threads on the housing for damage.

Speedometer drive — To assemble

Reverse the procedure for dismantling noting the following. Do not over-tighten the castellated nut before fitting a split pin. After assembly check that the shaft end float is within the limits given in the 'Summary of Repair Data'.

Speedometer drive — To fit

Smear jointing compound on the joint faces and refit the unit to the rear extension. Fit the setscrews and washers and connect the cable.

On some models the axis of the drive-shaft is eccentric to the flange and the speedometer drive should be fitted so that the offset boss is adjacent to the head of the parking brake pawl support screw.