

TO: ALL ROOTES DEALERS

MODEL: SUNBEAM DE LUX AND ALPINE IV

SUBJECT: ALL SYNCHROMESH GEARBOX : FIRST SPEED WHEEL END FLOAT

It is important when overhauling the all synchromesh gearbox to ensure, prior to re-assembly, that the first speed wheel on the rear of the mainshaft has correct running clearance.

In order to check end float, the following procedure should be carried out:-

1. Fit the second speed wheel and baulk ring to the mainshaft, press on the 1st/2nd synchro hub, and fit first speed wheel baulk ring and distance piece.
2. Fit the rear bearing or a suitable distance piece as shown (an Imp transaxle first speed bush, Part No. 7104180 is suitable). Fit the rear mainshaft nut and torque load to 80 lbs. ft. (11.06 Kgm).
3. Using a feeler gauge, check the distance between the rear face of the first speed wheel and the shoulder of the first speed distance bush as shown in the illustration.
4. First speed wheel end float must be .004" - .009"  
(.1 mm - .23 mm).
5. To obtain the correct end float, a first speed distance piece should be selected to provide the correct end float.

NOTE:

- a) During torque loading of the rear nut prior to assembly, the mainshaft should be securely held in a vice, using a scrap 3rd/4th hub fitted to the end front.

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- b) To assist in tightening the rear nut to the correct torque loading, it is recommended that a simple tool is made out of 1/2" mild steel plate to the dimensions shown in the illustration. When using this tool, the torque spanner should be set at 77 lbs. ft. (10.65 Kgm).

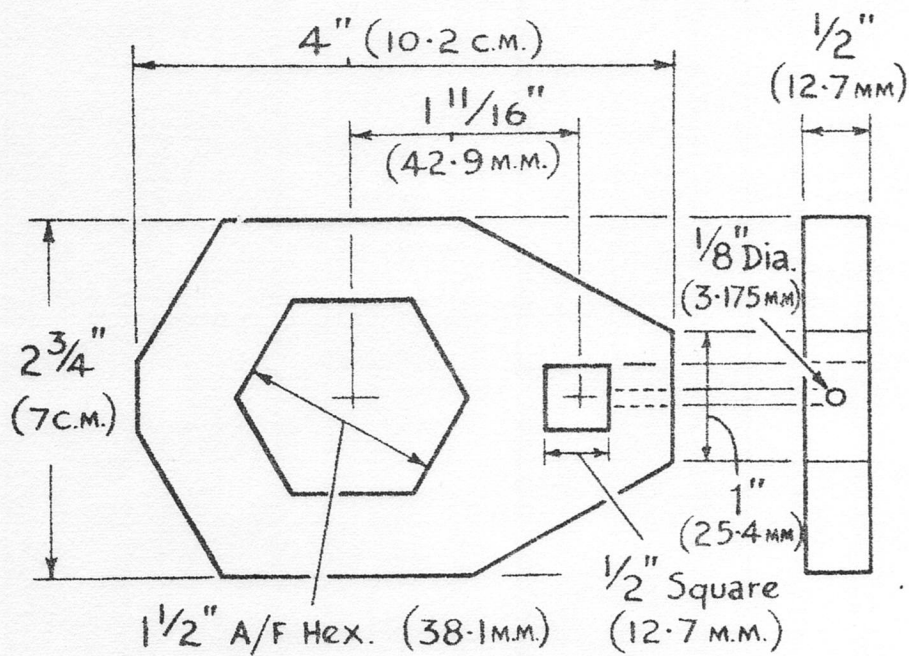
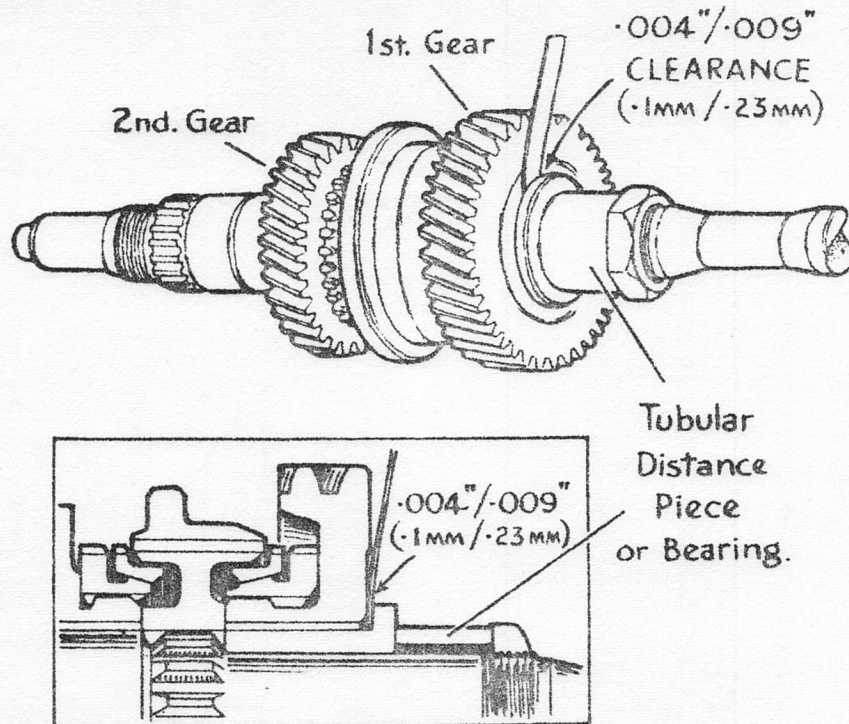
ROOTES MOTORS INCORPORATED

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Encl. Illustration No. 8076



TORQUE WRENCH ADAPTOR

Rear Mainshaft Nut

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