

November, 1964

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TO: ALL ROOTES DEALERS

MODEL: HILLMAN, SUNBEAM DE LUXE & ALPINE

SUBJECT: GEARBOX WEAK SYNCHROMESH

If a complaint of inefficient synchromesh action is experienced on gearbox units incorporating the three-speed synchromesh mechanism, it is recommended that the following points receive special attention:-

1. Replacement Baulking Rings

These should be cleaned thoroughly, paying particular attention to the threaded taper bore. Check for any obvious signs of handling damage.

2. Sliding Sleeves and Hubs

Check for any signs of burrs on machined faces, especially on the edges of the shifting plate slots in the hubs and lightly stone off where necessary. To ensure that these edges are free from burrs, the baulking ring should be offered up to the hub (without the sliding sleeve and shifting plate fitted), and rotated to ensure completely free movement. Any restriction of the baulking ring within the limits imposed by the shifting plates, will not allow full synchronisation to take place before gear engagement.

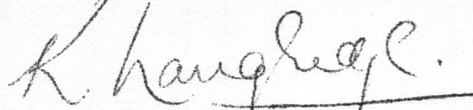
3. Gear Wheel Synchro Cone

Examine the cone face; if any annular ridges are present, replace the gear wheel. Inspect new gear wheel to ensure it is free from burrs, etc.

4. Re-assembly

Prior to re-assembly, lightly lap the new baulking ring onto the synchro cone using a coarse metal polish, in order to slightly roughen up the cone surface.

ROOTES MOTORS INCORPORATED



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General Service Manager

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