

GEARBOX
&
OVERDRIVE

No. E-10

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APRIL, 1965

TO: ALL ROOTES DEALERS
MODEL: SUNBEAM IMP
SUBJECT: TRANSAXLE

The earlier difficulties experienced with seizure of the third speed bush in the transaxle of the Sunbeam Imp was cured in production and extended rig tests have shown complete cure of the machining problem.

While on extended rig tests it was discovered that over long periods of high speed running that the crown wheel acts as a pump pulling oil through the lower slot of the transmission casing which increases the level of oil in the differential box and decreases the level of oil in the transmission casing, this naturally, under high speed and extended driving times, will eventually cause overheating of the tail shaft bearings and possible failure.

A cure for this defect is to drill two 7/16" holes above the strengthening web of the transaxle casing. This will ensure that as the level in the differential box increases above the strengthening web, recuperation of the transmission takes place through the two holes.

In the event of transaxles being dismantled for repair, these two holes should be drilled to ensure the oil level remains constant in both differential box and gear case.

ROOTES MOTORS INCORPORATED


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