

HINTS AND TIPS ON — SERVICE —

For **BSA** and **ARIEL** Dealers

Service Bulletin #164

June 2, 1964

SUBJECT: GEAR CHANGE MECHANISM ON ALL A50 - A65 MODELS

When difficulty is experienced in changing gears up and down the range, it may be due to incomplete travel of the cam plate.

The movement of the gear change return lever is limited by two plugs (Part No. 68-3058) in the inner case which control the travel of the cam plate.

The return lever (Part No. 68-3083) "stops" against flats ground on the two plugs. When these plugs are assembled in the case, the "flats" must be located so that the top and bottom sides on the return lever strike against the stops squarely to get "maximum" travel" to complete the ratchet movement which is required to slide the gears from one speed to another. The plugs and return lever are shown on page 18 in the A50 - A65 Parts Book.

When this movement is .020" or .030" less than what is called for, shifting difficulties will be experienced.

When difficulty is experienced in shifting down the range, grind .020" to .030" off the lower flat on the return lever. When difficulty is experienced in shifting up the range, grind .020" to .030" off the upper flat on the return lever.

If the return lever spring has lost its tension or doesn't snap the foot change lever back into its "resting" position smartly, replace it with the Super Rocket spring, part number 67-3378 which is made from heavier steel wire.

WB/jc

Walter Brown
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