

B.S.A. CYCLES LTD.

SERVICE SHEET No. 64.

December, 1936.

MID SEASON CHANGE.

Lightweight Gearbox 1937 "B" Models.

To facilitate gear operation and prevent any tendency for the gears to slip out of engagement, the gear selector forks have been strengthened; also the layshaft sliding dog centralized in relation to its associated pinions.

Gearboxes embodying these modifications can be recognised by the symbols stamped upon the gearbox end cover immediately to the right of the lug carrying the clutch cable casing adjuster. A gearbox fitted with strengthened forks only will be found stamped with the symbols $\frac{V}{FF}$; but if in addition the gearbox has been machined to centralize the layshaft sliding dog, the symbols $\frac{V}{FF}$ appear.

Should unsatisfactory gear operation develop with gearboxes in which these modifications are not incorporated, the following procedure should be adopted:—

(1) Fit new control shaft complete with operating forks comprised of:—

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|------------------------|------------------------|
| 1. Control Shaft. | Component No. 65-3153. |
| 2. Operating Forks. | „ „ 65-3150. |
| 2. Control Shaft Pegs. | „ „ 24-4246. |

(2) Centralize the layshaft sliding dog by replacing the hardened steel thrust washer, component No. 65-3117, at the clutch side of the layshaft, with washer, component No. 65-3129. The latter being .015" less in thickness than the former, necessitates the thrust washer fitted at the right hand side of the layshaft being replaced with a correspondingly thicker washer to give the required end float of the layshaft assembly, i.e., .005"-.006".

Suitable washers for this purpose are available as detailed below:—

Component No.	Thickness of Washer.
65-3129	.078" — .076"
65-3110	.085" — .083"
65-3117	.093" — .091"
65-3111	.101" — .099"
65-3112	.109" — .107"
65-3113	.117" — .115"
65-3124	.126" — .124"
65-3125	.136" — .134"