

B.S.A. CYCLES Ltd.

(Proprietors: The Birmingham Small Arms Co. Ltd.)

SERVICE SHEET No. 8.

"SERVICE."

May, 1930.

Adjustment of Sidecar Detachable Wheel.

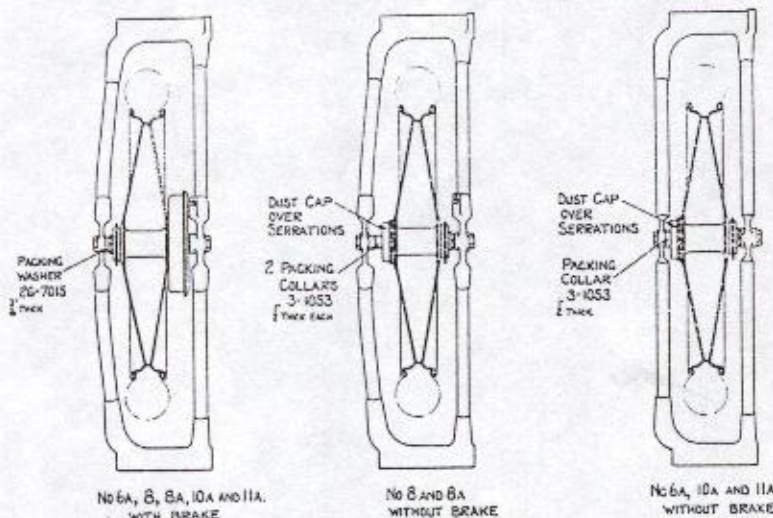
When assembling a quickly detachable and interchangeable wheel to a spring wheel chassis (No. 6a, 8, 8a, 10a and 11a), it is essential that the correct packing piece or pieces be fitted.

Two different sized packing washers or distance pieces are available under component No. 26-7015 for the No. 6a, 8, 8a, 10a and 11a chassis, with brakes and 3-1053 for the 6a, 8, 8a, 10a and 11a chassis without brakes, and these distance pieces should be fitted in

the position indicated in the accompanying diagram.

To fit the wheel, hold it at such an angle that it can be passed between the arms of the wheel cradle without fouling the mud-guard. When a brake is not fitted the splines in the hub should be towards the outside of the cradle, *i.e.*, on the near side of the chassis.

The end of the bearing spindle—*i.e.*, the end of the hollow spindle fitted into the



hub—should locate in the seating formed in the spindle hole of the cradle. When in this position the wheel can be held single handed without effort and the packing piece or pieces fitted between the hub and the cradle arm.

Thoroughly grease the wheel bolt before threading it through the hole in the cradle and screwing it into the hub.

THIS BOLT MUST BE LOCKED UP DEAD TIGHT even though the wheel is stiff in rotation.

The stiffness if in evidence will not be due to the tightening of the wheel bolt, but either to the initial friction of the felt washers fitted to the hub or to the wheel bearings being too closely adjusted. Check the latter according to Service Sheet No. 10.

Do not slacken off the wheel bolt to allow the wheel to revolve freely since if this be done the whole hub will revolve on this bolt instead of on the hollow sleeve and bearing. If this occurs the bolt will certainly seize so that it will be impossible to withdraw it in the orthodox manner. It will then be necessary to saw through the distance pieces and the bolt in order to remove the wheel.

When assembling a sidecar wheel complete with brake to any of these chassis, the brake drum should be fitted to the wheel, together with the brake cover plate.

Pass the wheel complete between the arms of the cradle as suggested above and engage the boss on the brake cover plate in the seating formed in the spindle hole of the cradle. Fit the packing piece, and attach the brake operating rod to the brake lever on the cover plate, finally assembling the wheel bolt.