250 c.c. O.H.V. TWIN CYLINDER SCOOTER

CHANGING BRAKE SHOES

After a very considerable mileage it will be necessary to replace the brake shoes, and this can be done without dismantling the hubs.

Rear Brake

To change the rear brake shoes first lift the machine off the stand so that the rear wheel is clear of the ground and place a small trestle or block of wood under the rear cross member of the frame.

Remove the rear wheel by taking off the three hub nuts and take out the single countersunk screw which holds the brake drum to the stub axle and draw off the drum.

With a screwdriver or similar tool unhook the springs from the shoes, taking careful note of the way in which they are fitted and remove the shoes. To refit, place the leading shoe in position on the fulcrum pin and cam, this being the shoe at the top looking from the right-hand side of the machine, and hook one spring into the hole nearest the brake cam.

Now obtain a piece of strong cord and tie it into a loop approximately 1" diameter; place the trailing shoe which is the lower one, in position, slip the loop of cord over the lower end of the spring and using a screwdriver as a lever through the other end of the loop expand the spring until the end can be pressed into the hole in the lower or trailing shoe. This will now hold the two shoes in position.

Pick up the remaining spring and hook it into the hole in the trailing shoe nearest the fulcrum pin, so that the loose end is uppermost, and, again placing the cord over the hook and using the screwdriver as a lever, expand the spring until the loose end can be hooked into the leading shoe. Now remove the cord.

As the rear brake cable may have been adjusted to compensate for wear on the brake linings, it will now be advisable to slacken off the cable by screwing the adjuster in before refitting the brake drum. After refitting the drum and screwing in the single countersunk head screw, replace the wheel, secure the three wheel nuts, spin the wheel to make sure that the brake is not binding and re-adjust the cable as necessary. Make sure that the locknut on the adjuster is tightened securely after the correct adjustment has been obtained.

Fig. 33.
Fitting Rear Brake Shoe Spring.

Front Brake

The presence of the stub axle makes the procedure for the front brake somewhat different from that for the rear.

Raise the front of the machine so that the front wheel is clear of the ground by placing a block of wood approximately 2" thick underneath each leg of the centre stand. Remove the front wheel by taking off the three wheel nuts.

Apply the front brake and remove the hub cap by unscrewing in a clock-wise direction; it has a left hand thread.

Beneath the cap will be seen the wheel lock nut and a tab washer; flatten the tab on the washer and unscrew the locknut in the normal manner, which is anti-clockwise. Take off the nut and the tab washer and draw off the brake drum complete with bearings and oil seal. (Service tool No. 61-5033.)

Now, using two screwdrivers, prise the shoes up and away from the pivot bolt and brake cam.

To re-fit. Hold the two shoes with the springs fitted, open them to form a V and press them down and over the pivot pin and brake cam, making sure that they are fitted the correct way round, which is with the narrow portion against the brake back plate.

Slacken off the brake cable by screwing in the adjuster on the lower member, refit the brake drum with the tab washer and lock nut, turning over the tab washer after the nut has been secured. Screw in the hub cap by turning in an anti-clockwise direction and refit the wheel, finally resetting the brake cable adjustment. After spinning the wheel to ensure that the brake is not binding.

Always make sure when removing wheels that they are fitted the correct way round, which is the rear wheel with the valve on the right hand side of the machine and the front wheel with the valve on the left. If the wheels are incorrectly fitted the alignment will be affected.

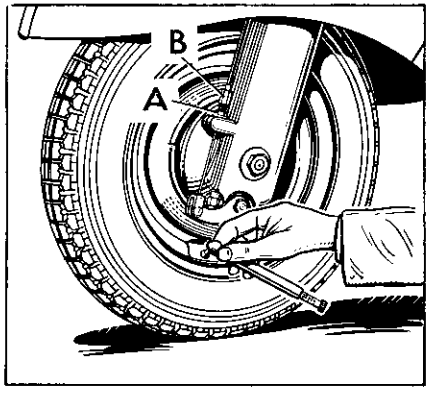

Fig. 34
Front Brake Adjuster.