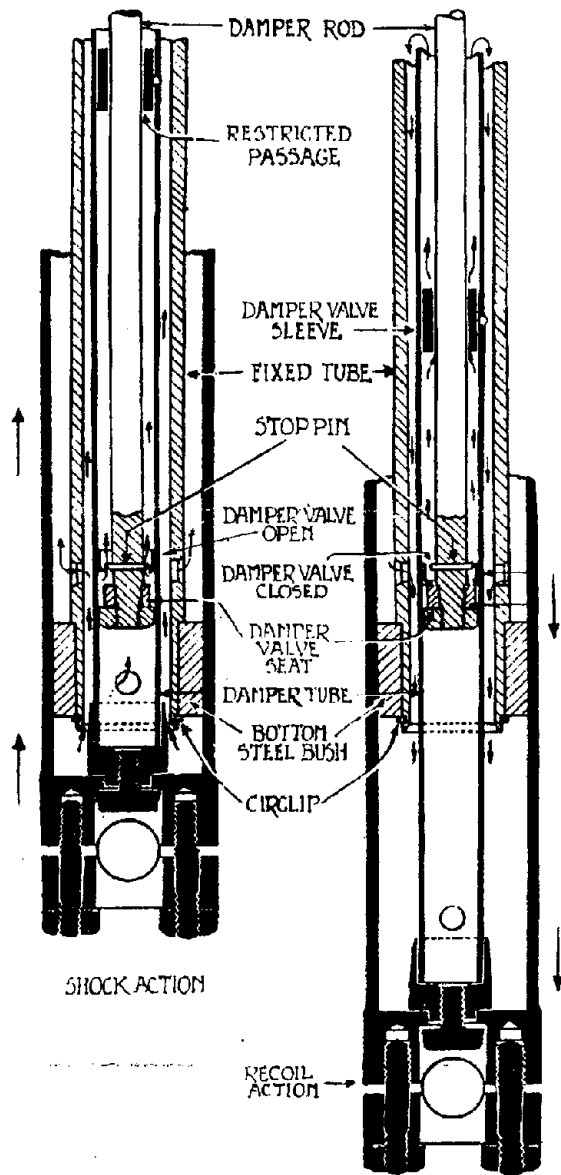


# THE TELEDRAULIC FORK

Designed by Associated Motor Cycles, Ltd., and Used by Them on Their Latest 350 c.c. o.h.v. W.D. Matchless Machines



## Service Note:—

Task 4, Item C (vii). Test level of hydraulic fluid and top-up, if necessary, every 3,000 miles. Use M-120 oil.

## Method:—

1. Support motorcycle vertically, with the weight on both wheels. (A "steady" under each footrest is best method.)

2. Unscrew the two hexagonal plugs at top of fork inner tubes. (These are on a level with handlebars.)

3. Pull upwards each plug as far as possible. (Attached to undersides of plugs are the fork damper rods; rods will therefore be exposed.)

4. Work plugs and rods up and down several times (pumping action), making upward strokes as violent as possible, but only use fingers to do so. (This action is to eject any hydraulic fluid that may be trapped in the tubes above the damper valves.)

5. Wait two minutes. (To allow any ejected oil to drain down to main supply.)

6. Remove oil level screws. (These are located on each slider, just under the mudguard bridge fixing bolts. Each screw has a fibre washer.)

7. Oil should just ooze from oil level screw holes if oil level is correct.

8. If no trickle, top-up by pouring about two tablespoonfuls (one fluid ounce) of M-120 oil down each fork inner tube.

9. Repeat pumping action (Para. 4).

10. Wait two minutes. (To allow oil time to trickle out of holes.)

11. Let all excess oil leak away.

12. If no trickle, repeat as Paras. 8 and 9.

13. If still no trickle, report as defect for investigation of leakage.

14. Replace oil level screws. (Ensure a fibre washer on each screw.)

15. Replace plug in top of each fork inner tube.

How the hydraulic damping system works. On the left the fork leg is shown at almost the limit of its upward stroke, the taper cone on the damper tube having entered the mouth of the fixed tube. On the right is shown the downward stroke. Note the upward flow of the oil trapped between the damper valve and the damper valve sleeve. Moving parts are shown black, stationary parts shaded.