Adjustment of Carburettors

When operating the motorcycle, it is necessary to check and adjust the engine operation at low-speed idling, synchronous operation of the carburettors, operating economy, and also the operation of carburettors control drive.

Before attempting to adjust the carburettors, check the following: the size of spark gaps (0.6 to 0.75 mm), breaker point gap (0.4 to 0.6 mm), as well as the clearance between the valve stem and the rocker ends (0.07 mm).

Each carburettor must be adjusted separately when the engine is warmed up.

To adjust the left-hand carburettor during low-speed idling of the engine, remove the cap from the spark plug of the right-hand head, slacken check nut *30* (Fig. 13), screw in union *31*, ensuring that the clearance between the cable end piece and the union is 2 to 3 mm. Then loosen off the check nut fastening screw *1*, and screw in the latter so that the throttle is slightly raised and the engine can develop a higher speed. Following that, turn home air-fuel ratio adjusting screw *18* and, as far as possible, reduce the engine speed by turning screw *1* back. After that, turn back screw *18* until such a position is ensured wherein the engine would operate smoothly and develop the maximum speed. Then, by turning screw *1* back, reduce the rotational speed to the lowest possible steady speed (on completing the adjustment, lock screws *18* and *1* by means of check nuts).

Taking hold of the cable, raise the throttle of the carburettor being adjusted, if this will cause an increase in the rotational speed, the adjustment may be finished.

Fit the cap on the spark plug of the right-hand head, switch off the left-hand cylinder and proceed to the adjustment of the right-hand carburettor. The adjustment procedure for this carburettor is the same as for the left-hand carburettor.

The carburettors must ensure a uniform speed of the engine with the left- and right-hand cylinders operating under idling conditions. The accuracy of the adjustment is to be checked in the following manner. On the operating, warmed-up engine with the carburettors adjusted, switch off the cylinders one after the other, by alternately removing the caps from the spark plugs of the right- and left-hand cylinders.

Listen to the engine to check whether its speed is changing when passing from operation at one cylinder to the operation at the other. If the engine speed at the right- and left-hand cylinders is different, the carburettors must be adjusted by turning in or out stop screws *1* of the throttles until a uniform speed is obtained. Following that, tighten up the check nuts of the stop screws.

To achieve a uniform, synchronous operation of the cylinders set the motorcycle on a support, start the engine and engage the fourth speed. Then switch off one of the cylinders (detach the high-

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