If an unlooped ended spring is used, as shown in the upper right-hand inset of Fig. 6, the cover should be replaced so that its white line is at the 9 o'clock position, then turned in a clockwise direction to the position shown in Fig. 14, and the cover fixing screws tightened.

When a looped end spring is used the cover must be replaced so that the looped end fits over the lever on the end of the strangler spindle (5), as shown in the lower right inset of Fig. 6. The cover should then be turned to the position shown in Fig. 14, and its fixing screws tightened.

If the choke control cover is replaced incorrectly the choke valve may not close properly when the engine cools down, or the choke valve may not open quickly enough as the engine warms up after starting.

Choke valve sticking can of course be due to dirt and other causes that can make the spindle stiff to move.

Check fast idle gap setting. This is the amount of opening at the throttle valve when the highest step of the stepped cam is in operation. See under ADJUSTMENTS.

Manual choke

Check that the choke (strangler) valve is closing fully when the choke control is moved to the cold starting position. This can be done without removing the air cleaner by observing the movement of the short lever on the end of the choke valve spindle. The short lever should turn with the long lever, to which the operating cable is connected, as the long lever is moved to the full extent of its operating range. It should then be possible to move the short lever one sixth of a turn, in an anti-clockwise direction, and then release it so that the choke valve snaps shut by the action of the choke valve return spring on the spindle behind the spring.
Check the fast idle gap setting. This is the amount of throttle valve opening when the choke valve is fully closed. See under ADJUSTMENTS.

ADJUSTMENTS

There are only two adjustments. They are:—

1. Slow running speed and mixture strength to give correct idling.
2. Throttle fast idling position to give good starting under all cold conditions.

Slow running adjustment (See Fig. 15)

Adjust the slow running speed adjustment screw to give an engine idling speed of 750 R.P.M.

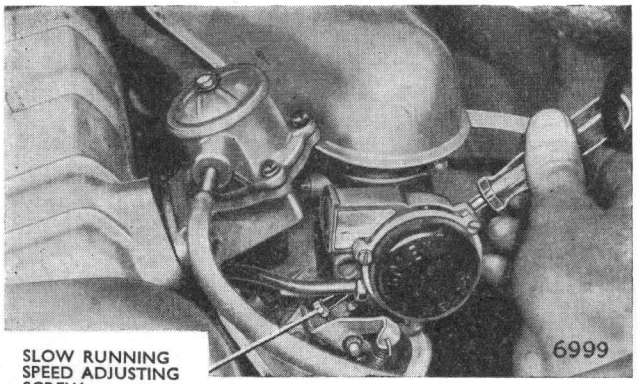

Fig. 15. *Adjusting slow running speed*

Unscrew the slow running mixture volume control screw in an anti clockwise direction until the engine begins to "hunt". Then adjust the screw in a clockwise direction until the engine runs smoothly.

If the engine speed is now too high reset the slow running speed adjustment screw. This may cause the engine to "hunt" slightly and a small alteration to the volume control screw may be required.

Fast idle position—for cold starting (See Figs. 4, 5 and 14A).

This adjustment must be very carefully made. The setting dimension has been arrived at by cold room tests.

Automatic choke

Remove carburettor from inlet manifold, as this adjustment cannot be made with the carburettor in position.

Remove the three screws holding the black cover over the automatic choke heat chamber.

Open the throttle so that the stepped cam (7) can be moved and held by a small rubber band so that its highest step is in operation.

Loosen off the set bolt, shown in Fig. 4, that locks the connecting link to the lever attached to the shaft operating the short lever (8).

Open the throttle to the fast idle setting given in the Data Section under Fuel System. The shank of a drill, or thin wire flattened to this dimension, should be inserted between throttle edge and throttle bore at a right angle to the centre of the throttle spindle. With the throttle held in this position, tighten the set bolt. Then check that the throttle opens the correct amount as the lever (8) rests against the top step of the stepped cam (7).