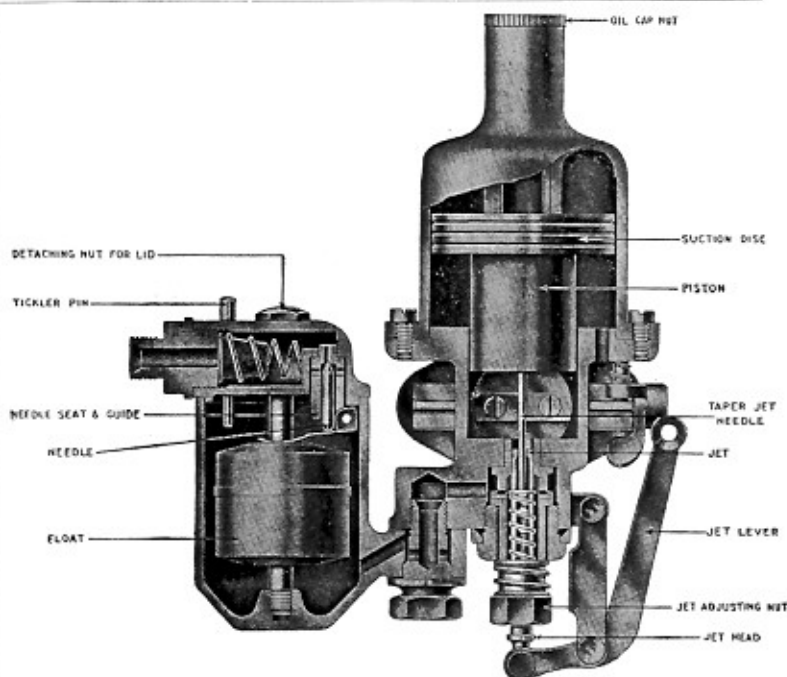


If your S.U. is not behaving satisfactorily it is due to one of these causes

- 1 Incorrect mixture
- 2 Piston sticking
- 3 Dirt or water in the carburetter
- 4 Float-chamber flooding



## No. 1 ADJUSTING THE MIXTURE

**R**UN the engine until it attains its normal running temperature. Then listen to the exhaust while the engine runs slowly. If the engine has a constant uneven beat, this is due to strong mixture. If the exhaust note is irregular and splashy, the mixture is too weak.

Adjust the jet to such a position that the engine idles on the correct mixture. An easy way to do this is to screw the jet adjusting nut up higher than its normal position and then adjust the jet correctly; as the jet adjusting nut actually only acts as a stop to prevent the jet from coming beyond its correct position, it can then be screwed down until it butts up against the jet head. This will be the normal running position with the mixture control set at weak.

A simple way to test for strong mixture when the engine is idling is to lift the piston up slightly, say

$\frac{1}{32}$  in., and if when this is done the engine runs faster, the mixture is too strong.

If a poor road performance, due to carburation, is suspected, a larger or smaller needle may be tried. The jet control will be found to be helpful in determining whether more or less petrol is required. Should it be necessary to change the needle, this can be done by removing the two screws holding the suction chamber in position, the suction chamber can then be lifted off and the piston removed. At the side of the piston will be seen a set screw. When this is slacked off, the needle can be withdrawn and the new needle inserted. The position of the needle is with its shoulder flush with the face of the piston. When replacing, care should be taken that the keyway at the side of the piston registers with the key in the body. Great care should also be taken to see that all machined faces and parts are kept scrupulously clean.



The **World's Finest Carburetter**  
**FITTED STANDARD TO YOUR**



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