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**Solex Carburetor Service Manual**

#### IV. DESCRIPTION OF THE CARBURETOR

All SOLEX carburetors consist of several circuits each of which has a specific function and its own adjustable parts. These circuits are:

1. The Float System
2. The Starter System
3. The Mixing System
4. The Main Jet Circuit
5. The Accelerator Pump and
6. The Boremeter Device.

##### 1. The Float System

The Float System regulates the fuel level in the carburetor (Fig. 6). The fuel must be maintained at a constant level, it is fixed for all carburetors for a fuel pump pressure equal to 1-2 metres of water and for fuel with a specific gravity of 0.725. For higher fuel pump pressure a smaller needle valve must be used.

Variances in the specific gravity of the fuel and the pump pressure can be compensated for by the use of washers of different thickness under the needle valve.

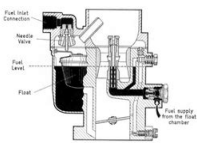


Fig. 6 The float system.

##### 2. The Starter System

There are two principle arrangements of the starter system: the Starter Disc Valve and the Strangle.

###### A. The Starter Disc Valve

The starting circuit with disc valve (Fig. 7) ensures instant starting with a cold engine, idling when cold and a smooth transition.

It has two adjustable parts, the starter fuel jet (jet G) and the starter air jet (jet G<sub>2</sub>).

The starting device should be used only when the engine is cold and has not reached its normal working temperature.

As soon as the engine is warm the starting device should be put out of action, to prevent the excessive use of fuel. The starting device should not be used when attempting to start a hot or warm engine.