

GENERAL MIKUNI SLIDE CARB CIRCUITRY

This manual is intended as a guide for users of Mikuni carburetors who want to learn the basic methods of tuning and adjusting to obtain top performance and fuel economy. The arrows that appear in the drawings in this text show direction in which air, fuel, and air-fuel mixture flows.

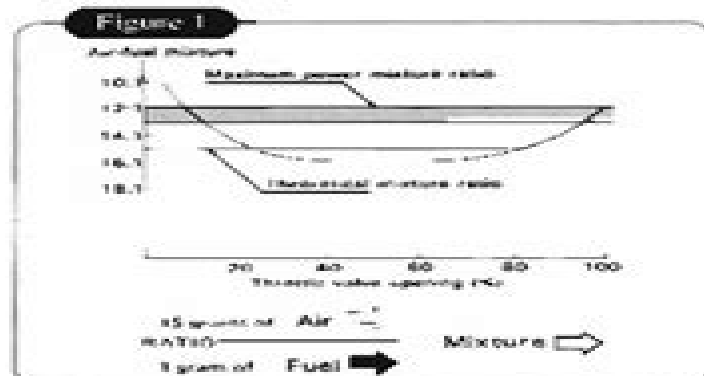
Information herewith obtained from Mikuni engineering data and manuals.

1. CARBURETOR FUNCTION

The function of a carburetor is to deliver a combustible air-fuel mixture to the engine. However, in order to be effective, it must first break the fuel into tiny particles (in the form of vapor) and then mix the fuel with air in a proper ratio so it can burn without leaving excess fuel or air.

2. AIR-FUEL MIXTURE (Fig.1)

The mixture of the air-fuel ratio is generally expressed by its relative weight proportion. For example, the amount of air required for complete combustion of 1 gram of fuel under normal conditions is:



Varying mixture ratios are required for the engine depending on operating conditions. Although the required mixture ratio varies more or less with the type of engine, its cooling efficiency, etc., the mixture ratio shown in Fig. 1 is required for ordinary engines. In the high speed range the ratio of about 12 to 13 grams of air for 1 gram of fuel produces the maximum output. However, in the case of an engine with low cooling efficiency, a somewhat richer mixture (10 to 12 grams of air against 1 gram of fuel) may be required to prevent seizure of the engine.

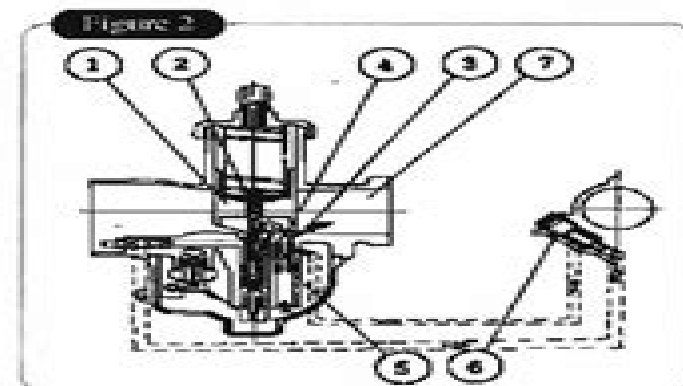
3. FUNCTIONS AND CONSTRUCTION MIKUNI SLIDE TYPE CARBURETORS

Motorcycle engines are operated under a wide range of conditions, from idling with the throttle valve (Fig. 3(1)) remaining almost closed, to the full load (the maximum output) with the throttle valve fully opened. In order to meet the requirements for the proper mixture ratio under these varying conditions, a low-speed fuel system (the pilot system) and a main fuel system (the main system) are provided in Mikuni Slide-type carburetors, except Mikuni TMS.

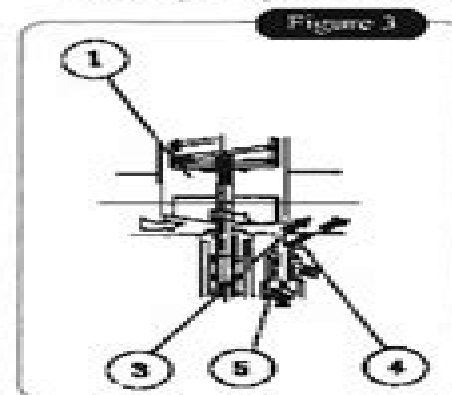
A - The Pilot System

Low-speed fuel system (Fig. 2 and Fig. 3)

Since the engine is operated with the throttle valve almost closed at idling or in the low speed range, the velocity of air flowing through the needle jet (2) is slow. Consequently, a vacuum strong enough to draw fuel from the needle jet in main fuel system is not created. The fuel supply during this low speed operation is controlled by means of the pilot outlet (3) and the bypass (6) that are situated nearest to the engine. At idle, when the throttle valve is slightly opened, fuel metered by the pilot jet (5) is mixed with air adjusted in a proper amount by the air screw (6) and is broken into fine vapor particles.



The mixture is again mixed with air coming from the bypass and is drawn into the pilot outlet to mix with air flowing through the main bore (7). The fuel mixed with air at this stage then goes to into the engine. When the throttle valve is opened slightly during low speed operation, the pilot outlet alone cannot supply the required fuel and the shortage has to be made up with fuel injected from the from the bypass. The adjustment of the mixture ratio during this stage is made by the pilot jet and the air screw, as in the case



of a two-hole type fuel system (Fig. 2). While at low speed operation, if full throttle is rotated a similar shortage of fuel again has to be injected from the bypass until enough (vacuum) can be created to draw fuel from the main fuel system. There is also a one-hole type low speed fuel system mainly used for carburetors having a small main bore. The process of producing the air-fuel mixture and of adjusting the mixture ratio are the same as in a two-hole type low speed system.

Mikuni Tm 42 Carb Manual

AW Chickering



Mikuni Tm 42 Carb Manual:
Road and Track ,1986

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