

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.

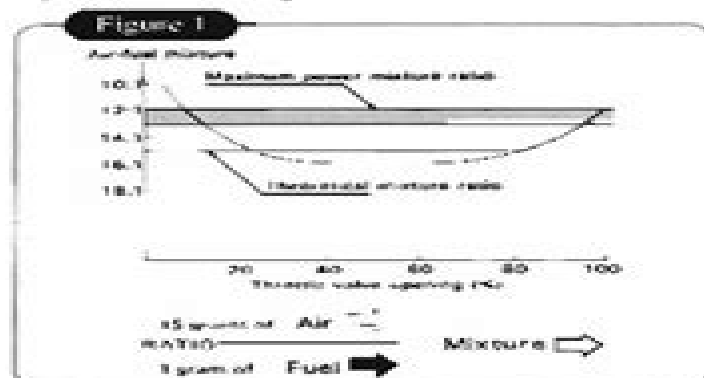
Information herewith obtained from Mikuni engineering data and manuals.

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.

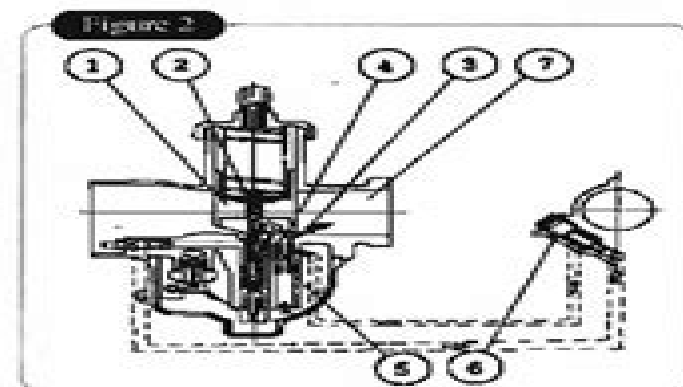
3. FUNCTIONS AND CONSTRUCTION MIKUNI SLIDE TYPE CARBURETORS

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.

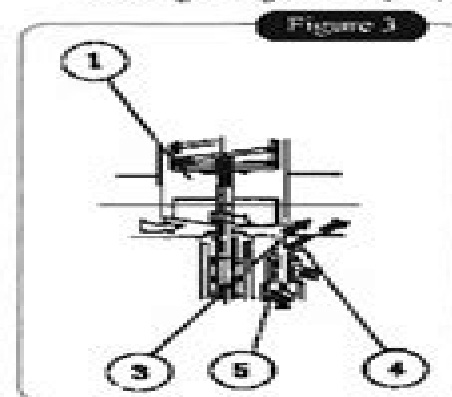
A - The Pilot System

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 Repair Manual

P. G. Strasman



Mikuni Repair Manual:

Motor Auto Repair Manual, 1982-1988 Motor, 1987 This latest edition of the bestselling Auto Repair Manual covers more than 1 900 models of domestic cars from 1982 1988 and includes more than 55 000 essential service specifications and repair facts as well as 2 500 diagrams cutaways and quick check spec charts Illustrated *Chilton's Auto Repair Manual, 1983* Chilton Automotive Books, 1982 Guide to maintenance and repair of every mass produced American car made between 1976 and 1983 *Clymer Snowmobile Service Manual 11th Edition* Penton Staff, 1991-06-01 With the help of the Clymer Snowmobile Service Manual 11th Edition in your toolbox you will be able to maintain service and repair your snowmobile to extend its life for years to come Clymer manuals are very well known for their thorough and comprehensive nature This manual is loaded with step by step procedures along with detailed photography exploded views charts and diagrams to enhance the steps associated with a service or repair task This Clymer manual is organized by subsystem with procedures grouped together for specific topics such as front suspension brake system engine and transmission It includes color wiring diagrams The language used in this Clymer repair manual is targeted toward the novice mechanic but is also very valuable for the experienced mechanic The service manual by Clymer is an authoritative piece of DIY literature and should provide you the confidence you need to get the job done and save money too *Motor Auto Repair Manual/1980-1986* Motor (New York, N.Y.), 1985-11 *Chilton's Auto Repair Manual 1986* Chilton Book Company, 1985 **Snowmobile Service Manual** Intertec Publishing Corporation. Technical Publications Division, 1971 **Chilton's Foreign Car Repair Manual** Chilton Book Company, 1971 Complete service and repair procedures for BMW including 2002 Volkswagen including Super Beetle Mercedes Benz including diesel engine service Audi Porsche including 914 Volvo including 164 Saab including 99 Fiat Opel including G T Alfa Romeo *Chilton's Repair Manual* Richard J. Rivele, 1991 *Motor Auto Repair Manual*, 1984 Spine title Motor auto repair Provides specific instructions for the repair of cars built from 1979 to 1985 *Mikuni Carburetor and Parts Manual* Sudco International Corporation, 198? *Chilton's Motorcycle Repair Manual*, 1976 *Chilton's Repair Manual, Chrysler Front Wheel Drive, 1981-92* Chilton Book Company, 1992 *Chilton's Auto Repair Manual 1981-1988* Chilton Automotive Books, 1988 The auto repair manual that do it yourselfers have relied on to save money now covers 1981 88 domestic cars This updated edition covers Detroit s newest models including the new Chrysler TC Chevrolet Corsica and Pontiac LeMans The most asked for book of its kind More than 3 000 illustrations **Chilton's Truck and Van Repair Manual**, 1986 **Chilton's Dodge Caravan & Voyager 1984-91 Repair Manual**, 1991 *Seloc Mercury/Mariner Outboards, 1990-00 Repair Manual* Scott A. Freeman, 2000 *WALNECK'S CLASSIC CYCLE TRADER, DECEMBER 2007* Causey Enterprises, LLC, *Dodge Colt/Plymouth Champ Owners Workshop Manual* P. G. Strasman, 1983 *Motor Imported Car Repair Manual*, 1987 **Small Engines Service Manual** Intertec Publishing Corporation, 1985-10

Unveiling the Power of Verbal Beauty: An Psychological Sojourn through **Mikuni Repair Manual**

In a global inundated with screens and the cacophony of quick communication, the profound power and psychological resonance of verbal art often diminish into obscurity, eclipsed by the constant onslaught of sound and distractions. However, located within the musical pages of **Mikuni Repair Manual**, a charming function of fictional brilliance that impulses with raw thoughts, lies an unique trip waiting to be embarked upon. Penned by way of a virtuoso wordsmith, this enchanting opus manuals readers on a mental odyssey, delicately exposing the latent possible and profound influence embedded within the delicate web of language. Within the heart-wrenching expanse with this evocative evaluation, we shall embark upon an introspective exploration of the book is main subjects, dissect its fascinating writing model, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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