

## WEBER 32 ICA & 32 ICA 1

1971 Fiat 128 (32 ICA)  
1973 Fiat 128 (32 ICA 1)

### DESCRIPTION

The carburetor is of 1-barrel downdraft design and incorporates a main system, power system and an idle system. An accelerator pump is incorporated to provide good transition to the high speed systems. A butterfly valve type choke is vacuum operated to provide for easy starting.

### OPERATION

**Normal Running** — Fuel from the float chamber flows through the main jet into the emulsion tube well and air from bleed jet mixes with this fuel. The mixture is then advanced to the venturi, and into the engine.

**Idling** — Fuel from emulsion well is routed to the idle jet and blended with air from a calibrated bushing. It then continues through a passage to the idle orifice and mixture screw. The mixture is then discharged into the carburetor throat, downstream of the throttle. The passage that leads to the idle orifice also feeds an idle transfer port. This port, located just above the throttle valve, enables the engine to accelerate smoothly from idle.

**Choke** — The closing of a butterfly valve caused intake manifold vacuum to draw fuel from discharge tubes. Because of lack of air flow through the obstructed air horn, the mixture is overrich and helps to provide quick starting. When engine starts, the increased manifold vacuum causes the throttle valve to open slightly. This provides mixture of suitable quality to enable engine to run properly even when cold.

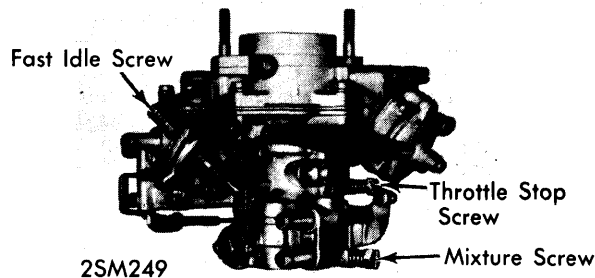
### ADJUSTMENT

#### FLOAT LEVEL ADJUSTMENT

- 1) Remove carburetor body cover and make sure that needle valve is tight. Hold cover in a vertical position so that weight of float does not lower ball in needle valve.
- 2) With float arm just touching ball, float level should be as specified (measured from bottom of float to cover gasket). If clearance is not correct, bend float arms to obtain correct measurement.
- 3) Check to make sure float travel is as specified, and adjust as necessary.

#### CARBURETOR SPECIFICATIONS

Idle RPM.....	800-900
Fast Idle RPM.....	1550-1650
Float Level.....	① 1.411"
Float Travel.....	② .335"
Venturi Diameter.....	.905"
Throat Diameter.....	1.260"
① — 32 ICA 1 —	1.411"
② — 32 ICA 1 —	.341"



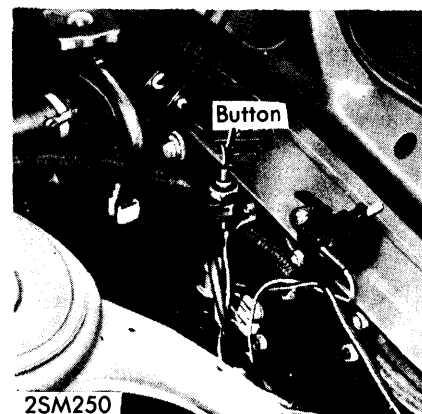
WEBER 32 ICA CARBURETOR

#### HOT (SLOW) IDLE ADJUSTMENT

With engine at normal operating temperature, adjust throttle stop screw so that engine runs smoothly. Turn mixture screw to achieve highest RPM. Turn throttle screw to achieve best idle RPM. Repeat procedure with mixture screw and re-set idle RPM to 800 RPM with throttle stop screw.

#### COLD (FAST) IDLE ADJUSTMENT

Depress button on electro-valve located in engine compartment (see illustration), and turn fast idle screw of carburetor until idle speed is 1550-1650 RPM. Keep button depressed and pump accelerator pedal several times. Re-check fast idle RPM. If not at correct value, readjust fast idle screw.



FAST IDLE ELECTRO-VALVE

#### MAINTENANCE

**Every 6,000 Miles** — Clean carburetor jets and inner strainer. This cleaning should be done by using compressed air only. Engine idle and fast idle should then be adjusted.