

WEBER DCNF-2M 2-BARREL

Citroen SM (1971)

DESCRIPTION

Carburetor is a two barrel downdraft type which incorporates a plunger type choke jet. A separate circuit is provided for each barrel of the carburetor. A diaphragm type acceleration pump is also incorporated to richen the mixture for acceleration purposes. The carburetor also has a separate idle circuit, and a normal running circuit.

Choke Jet — The two separate circuits (one for each barrel) are of progressive type and govern the mixture which is delivered at cold starting.

ADJUSTMENT

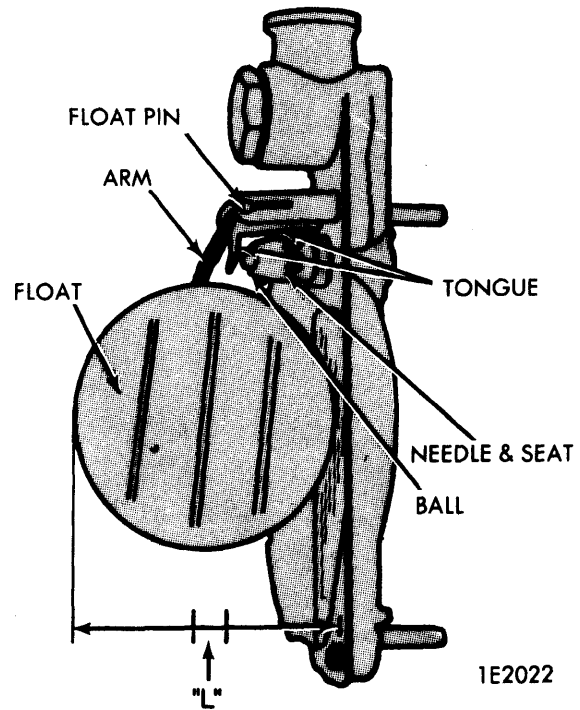
Float Level — Before attempting to adjust, be sure that the seat of needle is correctly threaded into recess in gasket. Hold carburetor cover vertically. Weight of float should drop ball mounted on spring inside needle. Make sure that float moves freely on pin. Proceed with adjustment as follows:

- 1) Incline cover so that tongue of float comes in slight contact with ball. Measure dimension "L" (see illustration). This should be 1.88-1.99 in. ($48 \pm .25$ mm). Measure without gasket.
- 2) To adjust, bend float arm, making sure tongue remains perpendicular to axis of needle and that surface of tongue is not damaged.
- 3) Tilt cover so that tongue comes to rest against seat of needle. Measure dimension "L". This should now be 2.224 in. (56.5 mm). To adjust, slightly bend tongue.

IDLE ADJUSTMENT

With engine at normal operating temperature (oil temperature 140-160°F (60-70° C), make sure that vehicle is in highest (raised) position. Proceed as follows:

- 1) Screw in mixture screws without forcing and then back out 1 1/2 turns. Adjust idle speed screws to bring idle to 850 ± 50 RPM.
- 2) Disconnect air pump and insert probe of exhaust gas analyzer into either one of the two tail pipes. Record the CO%.
- 3) Adjust to achieve 2.0-2.5% CO with a satisfactory idle. Reconnect air pump and adjust idle speed screws to give a speed of 900-1000 RPM.
- 4) Record the new CO%. The CO% should be 1.5%.



FLOAT LEVEL ADJUSTMENT

CARBURETOR ADJUSTMENT SPECIFICATIONS

Venturi	32 mm
Nozzle	3.5 mm
Main Jet	1.25 mm
Emulsion Tube	#F.25
Air Correction Jet	1.80 mm
Idle Jet50 mm
Accelerator Pump Jet.....	.40 mm
Choke Jet	#F.7/80
Needle	1.75 mm
Accelerator Pump Check Valve	#1
Idle RPM.....	900-1000 RPM
CO%	1.5
Basic Mixture Setting	1-1/2 Turns Out