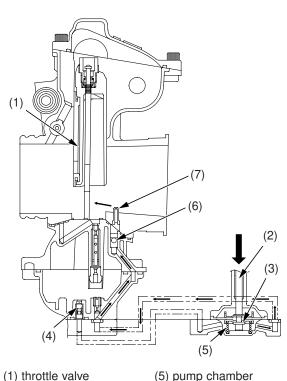
Carburetor Adjustment & Tuning Tips

Accelerator Pump Circuit

The accelerator pump circuit operates when the throttle is opened. As the throttle valve (1) opens, the pump rod (2) depress the diaphragm (3). At this time, the inlet check valve (4) is shut resulting in a sharp increase in pressure in the pump chamber (5). The outlet check valve (6) then opens, supplying fuel to the main bore via the accelerator nozzle (7).



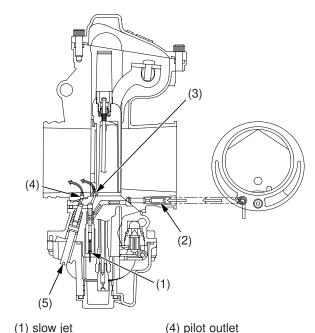
(6) outlet check valve

(7) accelerator nozzle

- (1) throttle valve
- (2) pump rod
- (3) diaphragm
- (4) inlet check valve

Slow Circuit

Fuel is metered by the slow jet (1) and mixed with air from the slow air jet (2). The mixture enters the venturi through the bypass (3) and pilot outlet (4) that has been metered by the pilot screw (5).



- (1) slow jet
- (2) slow air jet
- (3) bypass
- (5) pilot screw

Main Circuit

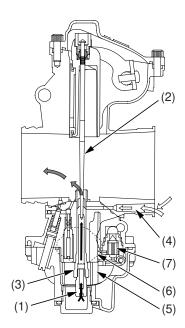
Fuel is metered by the main jet (1), jet needle (2) and needle jet (3). It is then mixed with air coming from the air jet (4) and enters the venturi past the needle jet.

Baffle Plate

The baffle plate (5) prevents foaming of fuel or abnormal fuel level around the main jet.

Float Bowl

The float (6) and float valve (7) operate to maintain a constant level of fuel in the float bowl.



- (1) main jet
- (2) jet needle (3) needle jet
- (7) float valve

(4) air jet

(5) baffle plate (6) float