

mixture ratio. This change is effective in the slow speed range between idling and 1/4 throttle opening and has no effect above 1/2 throttle opening. (Fig. 3.122)

(6) Slow jet

The slow jet meters the flow of the fuel at idling and in the slow speed range, and causes the fuel to be atomized by mixing it with the air taken in from the air bleed holes. (Fig. 3.123)

(7) Air screw

The air screw regulates the amount of air entering the slow speed system. The air which passes by the air screw mixes with the fuel from the slow jet and is discharged in the proper mixture, producing a spray to assist vaporization. (Fig. 3.124)

C. Adjustment

In order for the carburetor to produce the maximum performance of the engine's capability it must be adjusted so that a proper fuel mixture is available over the complete speed range from idling to the maximum speed, and further, be able to maintain this condition. This carburetor has been designed and manufactured to satisfy these conditions by the precision manufacture of the components and specially in the use of superior quality wear resistant materials. The jet needle, needle jet, throttle valve and the float valve being susceptible to wear, has been made of materials possessing good wearing characteristics, precisely manufactured and surface treated to give extended satisfactory service without change to performance.

The adjustments are accurately made and performance checked by both the manufacturer and factory personnel to assure that the setting of the various parts are precise. Therefore, when making any adjustments, performing engine repair or replacing worn parts, give particular attention to the following points.

- ① Make sure that the engine is adjusted in accordance with the specifications.
- ② Check to see that there are no air leaks at the carburetor mounting flange.
- ③ When the controlling components become worn, replace with new parts.



Fig. 3.122 Throttle valve

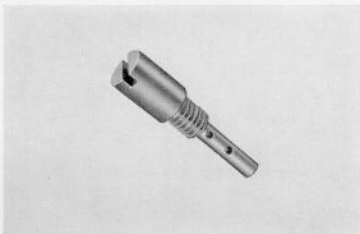


Fig. 3.123 Slow jet

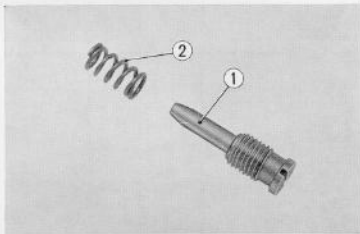


Fig. 3.124 Air screw
① Air screw
② Air screw stop spring