

1. CHOKE (STARTING SYSTEM)

Since it is necessary to provide a rich mixture for a short period during cold weather starting, choke (24) is incorporated. By raising the choke lever to the full close position, the choke valve (24) can be completely closed. A relief valve (25) is installed on the choke valve and kept in the closed position by the spring (26). When the kick pedal is kicked with the throttle valve (3) opened approximately 1/4, the suction pressure causes the fuel to be discharged from the pilot outlet (9) and the needle jet (15), and at the same time, the suction pressure causes the relief valve to open a proper amount, permitting the air to enter and produces a fuel mixture which is ideal for starting.

After the engine starts, the suction pressure increases, opening the relief valve wider and furnishes the cold engine with the proper starting fuel mixture. In this way, the opening of the throttle valve causes a corresponding opening of the relief valve and permits the warming up of the engine without manipulating the choke lever. When the engine has warmed up, merely position the choke valve to the fully open position. (Fig. 3-110)

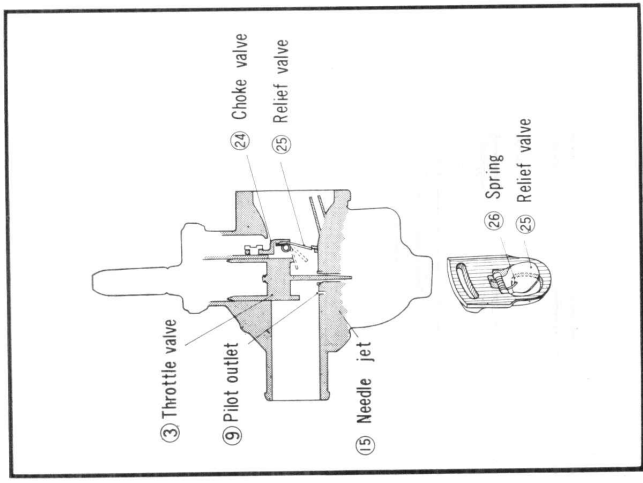


Figure 3-110. Choke

5. ADJUSTING THE FUEL LEVEL

It is difficult to directly measure the fuel level, therefore, the fuel is determined by measuring the height (H) of the float. (Fig. 3-111, 3-112)

- (1) Position the carburetor as shown in Fig. 3.111 with the float arm pin (27) toward the top and the float (20) at the bottom and tilt the carburetor to the point where the float arm (22) is about to break contact with the float valve base. This should occur when the carburetor is tilted approximately 70° or at any point between 50° to 70°. That is, the float arm should be at a point where the base of the valve is not compressed.
- (2) In this position, the float bottom (28) is measured from the carburetor body (29) with the gauge (30) to determine the height (H). The tolerance of the float position is 1mm (0.040 in) both ways. In other words, the gauge should not press the float more than 1mm, nor should there be clearance greater than 1mm between the gauge and the float. Care should be exercised in making the measurement since the base of the valve is spring loaded and can be compressed into the valve in which case, the true closing point of the valve cannot be determined.

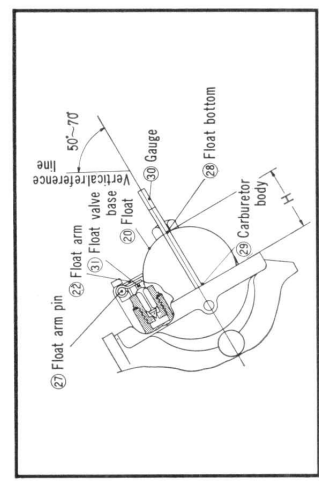


Figure 3-111. Fuel level adjustment

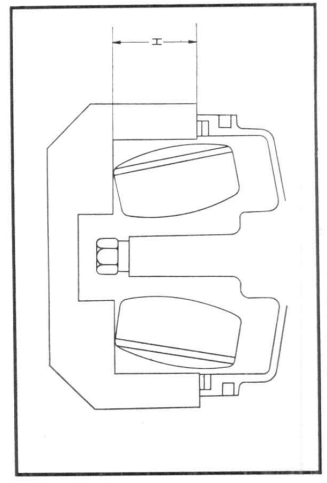


Figure 3-112. Fuel level gauge

6. CARBURETOR SETTING TABLE

Model	Carburetor type	Setting mark	Throttle bore	Venturi bore	Main jet	Air jet	Needle jet	Jet needle	Cut-away (throttle valve)	Air screw	Slow jet	Slow air bleed	Valve seat	Pilot jet	Pilot outlet	Fuel level (actual fuel height)
S50	PW16FA6 (CF130)	K	16mm (0.630 in.)	16mm (0.630 in.)	#78	#120	0.6mm (0.0236 in.) X 2	0.6mm (0.0236 in.) X 2	16332 3 stage	1 1/8 ~ 1/8	#35	0.8mm (0.0315 in.) X 2	1.0mm (0.0394 in.)	1.0mm (0.0394 in.)	0.9mm (0.0354 in.)	17.5mm (0.689 in.)
			17-B	16mm (0.630 in.)	17mm (0.670 in.) equiv.	#85	#150	0.6mm (0.0236 in.) X 2	0.6mm (0.0236 in.) X 2	16305 3 stage	1 1/8 ~ 1/8	#38	0.7mm (0.0276 in.) X 2	1.0mm (0.0394 in.)	0.9mm (0.0354 in.)	17.5mm (0.689 in.)
S65	PW16FA6 (CF130)	K	16mm (0.630 in.)	16mm (0.630 in.)	#78	#120	0.6mm (0.0236 in.) X 2	0.6mm (0.0236 in.) X 2	16332 3 stage	1 1/8 ~ 1/8	#35	0.8mm (0.0315 in.) X 2	1.0mm (0.0394 in.)	1.0mm (0.0394 in.)	0.9mm (0.0354 in.)	17.5mm (0.689 in.)
			17-B	16mm (0.630 in.)	17mm (0.670 in.) equiv.	#85	#150	0.6mm (0.0236 in.) X 2	0.6mm (0.0236 in.) X 2	16305 3 stage	1 1/8 ~ 1/8	#38	0.7mm (0.0276 in.) X 2	1.0mm (0.0394 in.)	0.9mm (0.0354 in.)	17.5mm (0.689 in.)
C50M	1000-111	50MB	13φ	13φ	#72	#150	0.4φ X 2	0.4φ X 2	13239-3 stage	1 1/4 ± 1/8	#35	0.9φ X 2	0.8φ X 2	0.8φ X 2	0.9φ P = 5.0	15.5
			13φ	13φ	#70	#150	0.4φ X 2	0.4φ X 2	13239-3 stage	1 1/4 ± 1/8	#35	0.8φ X 2	0.8φ X 2	0.8φ X 2	0.9φ P = 5.0	15.5
C50	1000-110	C50C	13φ	13φ	#72	#150	0.4φ X 2	0.4φ X 2	13243-3 stage	1 1/4 ~ 1/8	#35	0.9φ X 2	0.8φ X 2	0.8φ X 2	0.9φ P = 5.0	17.5
			14φ	13φ	#72	#150	0.4φ X 2	0.4φ X 2	13243-3 stage	1 1/4 ~ 1/8	#35	0.8φ X 2	0.8φ X 2	0.8φ X 2	0.9φ P = 5.0	17.5
C65M	1000-115	65MB	13φ	13φ	#72	#150	0.4φ X 2	0.4φ X 2	13243-3 stage	1 1/4 ~ 1/8	#35	0.9φ X 2	0.8φ X 2	0.8φ X 2	0.9φ P = 5.0	17.5
			14φ	13φ	#72	#150	0.4φ X 2	0.4φ X 2	13243-3 stage	1 1/4 ~ 1/8	#35	0.8φ X 2	0.8φ X 2	0.8φ X 2	0.9φ P = 5.0	17.5
C65	1000-112	65H (Y65H)	13φ (0.512 in.)	13φ (0.512 in.)	#72	#150	0.4φ X 2	0.4φ X 2	13243-3 stage	1 1/4 ~ 1/8	#35	0.8mm (0.315 in.) X 2	0.8mm (0.315 in.) X 2	0.8mm (0.315 in.) X 2	0.9mm (0.0354 in.)	17.5
			14φ (0.551)	14φ (0.551)	#72	#150	0.4φ X 2	0.4φ X 2	13243-3 stage	1 1/4 ~ 1/8	#35	0.8mm (0.315 in.) X 2	0.8mm (0.315 in.) X 2	0.8mm (0.315 in.) X 2	0.9mm (0.0354 in.)	17.5

Setting specifications

