

TWIN CARBURETOR INSTRUCTION FOR FA-80T MK2

- 1) An optimum fuel - air mixture for efficient combustion to the right and left cylinders can be individually adjusted by the needle valve.
- 2) Improved output (Increase of approx. 300 rpm with the propeller of top flight 14" X 6")
- 3) Improved performance without plug heat in idle mode (Approx. 2,500 rpm)

Accessories:

- 1) Intake pipe 2 pcs.
- 2) Fuel branch pipe 1 pc.
- 3) Needle extension bar 2 pcs.
- 4) Choke valve bar 1 pc.
- 5) Bar knob 3 pcs.
- 6) Attaching cap screw (M3x10) 2 pcs.
- 7) Linkage rod 1 pc.

A) Operating Choke Valve

Forcibly give 2 or 3 forward turns to the propeller with throttle valve fully opened (Test in advance since the number of turns varies with the fuel level in the fuel tank)

* Do not crank the engine any more if it shows dull run due to over intake of fuel. Alternately and gently turn the propeller rightward and leftward until it allows smooth run, and then restart the engine. Otherwise, the linkage rod will be damaged.

* Operate the choke valve with the throttle valve opened all the way. The choke valve can not be operated with the throttle valve set to the low or medium position since air enters the carburetor from the idle air bleed hole.

B) Adjusting Main Needle Valve

Open the main needle valve about 2 times depending upon the plugs used and a type of fuel. Choke the throttle valve. Set the throttle lever to the low-speed position to set plug heat.

Forcibly give forward turns to the propeller. When the engine starts operation, set the throttle lever to the maximum-speed position and detach the starting power supply.

You may choose whichever you like, a right main needle or a left one. For example, let start to adjust the left one first.

Tighten gradually the left main needle, then revolution is getting the peak accordingly and before it reaches to the peak, adjust the right one by the same operation as process of the left one, and loosen again the left needle about one fourth revolution prior to tightening the left one, then tighten and get the peak. The right one is also requested to do the same process as the left one has been done.

The both sides of needle adjustment should not be completed only once. A few times of the same operation as mentioned above are required for fine adjustment with precision. Loosen a couple of groove on a right and a left roulettes last. (Please pay your special attention to tightening not too much)

C) Adjusting Slow Needle Valve

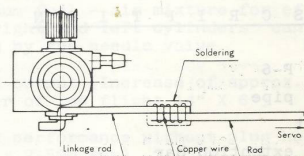
In the first instance, tighten both the slow needles, then loosen them by about 6 revolutions. Pull the throttle lever and decrease speed down to about 4,000 rpm after the peak reached by main needle, and stop the lever at the point.

You may choose whichever you like, the right slow needle or the left one. For example, screw the right slow needle gradually, then the fuel gets strong and revolution decreases to about 3,500 rpm. Next, screw gradually the left slow needle too, and decrease to about 3,000 rpm, then pull the throttle lever gradually and decrease to about 2,400 - 2,200 rpm.

Look over the right and left colors of exhaust gas. If exhaust gas, for instance, is strong, loosen the left slow needle gradually. Set its location, at a point of the color is strong rather than, by a trim adjustment as there is no rotor stopper.

D) Linkage

Since the section of the throttle lever is restricted, wind a copper wire on the linkage rod furnished along with the rod to the servo and solder them before use.



* It is the best that fuel in the fuel tank has the same level as the needle valve.

TWIN CARBURETOR PARTS LIST

<u>NO.</u>	<u>D E S C R I P T I O N</u>	<u>Q'TY</u>
1	Carburetor body	1
2	Spray bar	2
3	O-ring P-2	2
4	Needle stopper	2
5	Spray bar lock nut	2
6	Needle valve	2
7	Needle valve body	2
8	Nipple	2
9	Throttle valve	2
10	Valve stopper	2
11	Throttle lever R	1
12	Throttle lever L	1
13	Connecting rod	1
14	Eyelet	2
15	Pan head screw M3x4	2
16	Choke valve	1
17	Choke valve retainer	1
18	Pan head screw M3x3	2
19	Spring washer	2
20	Air needle	2

<u>NO.</u>	<u>D E S C R I P T I O N</u>	<u>Q'TY</u>
21	Spring	2
22	O-ring P-6	2
23	Intake pipe	2
24	Cap nut	2
25	Needle extention bar	2
26	Choke bar	1
27	Bar knob	3
28	Socket headed screw M3x3	5
29	Fuel branch pipe	1
30	Attaching screw M3x10	2