 SERVICE PROCEDURE
UT UPDRAFT CARBURETER

A fast, simple, Circuit method of servicing. Use Carter tool kit. BE ACCURATE.

1. Remove flange attaching screws and washers (4) and lift off bowl cover assembly.

2. Remove float pin, float, and needle and seat assembly. Use tool T108-61 or screw driver wide enough to reach across needle seat slots.

3. Remove venturi and bowl cover gasket. Venturi seals at top edge with light press fit to loosen, pry venturi upward with screw driver from bowl vent recess. Top lightly on opposite side if necessary.

4. Remove throttle valve screws, valve, and shaft and lever assembly. Pry out throttle shaft seal retainer and remove seal.

5. Remove fuel line elbow and strainer assembly.

6. Remove idle adjustment screw and spring, then remove idle port rivet plug. (Use tool T109-43).

7. Remove bowl drain cock (found only on some models) and main metering jet assembly.

8. Fixed type main metering jet is shown in this picture.
9. Remove nozzle and gasket assembly. (Use Tool T109-
223).

10. Remove nozzle bleed, and idle jet.

11. Remove dust seal retainer and felt packing from air
    horn. Pry out with small point.

12. Remove choke valve screws, choke valve, choke shaft
    and lever assembly, choke lock pin, and spring. Note:
    when removing the choke shaft and lever assembly,
    be careful not to lose the choke lock pin and spring.

13. Pry out shaft seal retainer and remove seal. Do not
    remove expansion plugs from ends of throttle shaft
    and choke shaft when present.

14. Wash all parts (except dust seals) in carburetor cleaning
    solution and rinse. Blow out all passages with
    compressed air, replace any worn or damaged parts.
    Always use new gaskets.

TO REASSEMBLE

15. Group all parts controlling fuel level (float circuit):
    float, float pin, needle and seat assembly, elbow and
    strainer assembly, bowl drain cock (if used).

16. Group all parts controlling low speed circuit: Throttle
    shaft and lever assembly, dust seal, dust seal retainer,
    throttle valve and screws, idle adjustment screw and
    spring, idle jet screw plug, idle port rivet plug.
17. Group all parts controlling high speed circuit: Nozzle and gasket assembly, venturi, nozzle bleed, bowl cover gasket, main metering jet assembly or high speed adjusting needle if used.

21. Install idle jet. Note: Idle jet has larger thread than nozzle bleed screw plug. Do not interchange parts.

18. Group all parts controlling choke circuit: Choke shaft and lever assembly, dust seal, dust seal retainer, choke valve assembly, valve screws, choke lock pin and spring, air horn chain felt and retainer.

22. Install needle and seat assembly (use tool T109-41, or screwdriver wide enough to reach across slot), float and float pin with lip "B" of float lever against needle.

19. Install dust seal (with groove to outside) and retainer (throttle shaft) "A". Install throttle shaft and lever assembly. Install throttle valve with "C" towards the idle port when viewed from flange side. Center valve in bore before tightening screws. Caution: Be sure throttle lever adjusting screw is backed out from boss on casting.

23. Set float to specifications as indicated on catalog page. Measure distance between machined surface of casting and float.

20. Install idle port rivet plug, idle adjustment screw and spring, and elbow and strainer assembly.

24. Install nozzle and gasket assembly.

*NOTE: First production carburetors stamped G-49 and H-49 may be found with the "C" located on the opposite side from the idle port. In this instance, valves so stamped should be installed with the "C" opposite the idle port.
23. Install bowl cover as assembled. Install four bowl cover attaching screws. Tighten evenly and securely. (Retighten after carburetor has been in service.)

24. Install drain cock (where used), air horn drain belt and retainer "E." If necessary, carefully stake casting around dust seal retainer.

25. Install main metering jet assembly (adjustable "C" or fixed type "D").

26. Install venturi in body casting, then install bowl cover gasket.

27. Install choke lock spring and pin. Be sure flat end of pin is against spring.

28. Install choke shaft and lever assembly, Install choke valve assembly with poppet valve stem towards the bowl. Install choke valve screws. (Center choke valve before tightening screws.)

29. Set throttle lever adjusting screw to open throttle slightly. Adjust idle adjusting screw and high speed adjusting needle (when used). See catalog pages for correct specifications. Note: Final adjustments must be made with carburetor operating on engine.