

SERVICE PROCEDURE UT UPDRAFT CARBURETER

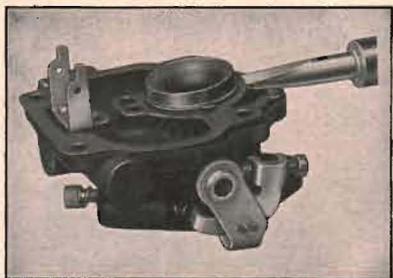
A fast, simple, Circuit method of servicing. Use Carter tool kit. BE ACCURATE.



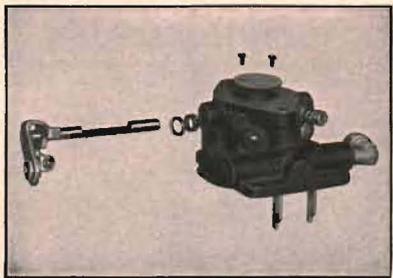
1. Remove flange attaching screws and washers (4) and lift off bowl cover assembly.



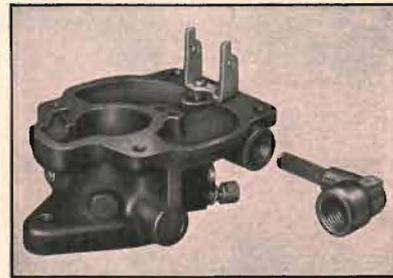
2. Remove float pin, float, and needle and seat assembly. Use tool T109-61 or screw driver wide enough to reach across needle seat slots.



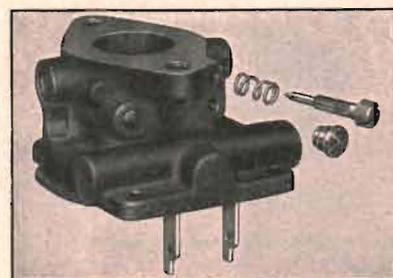
3. Remove venturi and bowl cover gasket. Venturi seals at top edge with light press fit; to loosen, pry venturi upward with screw driver from bowl vent recess. Tap lightly on opposite side if necessary.



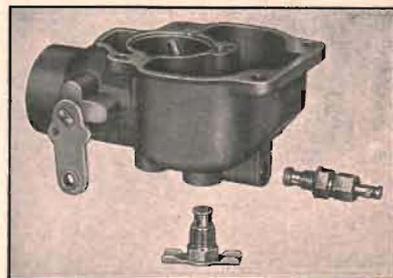
4. Remove throttle valve screws, valve, and shaft and lever assembly. Pry out throttle shaft seal retainer and remove seal.



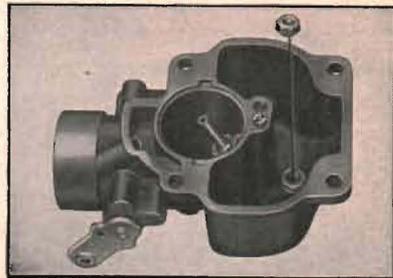
5. Remove fuel line elbow and strainer assembly.



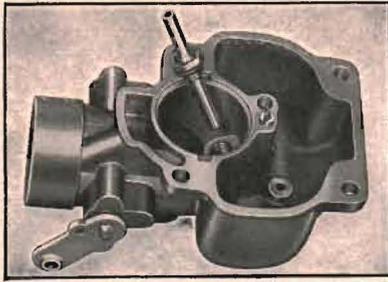
6. Remove idle adjustment screw and spring, then remove idle port rivet plug. (Use tool T109-43).



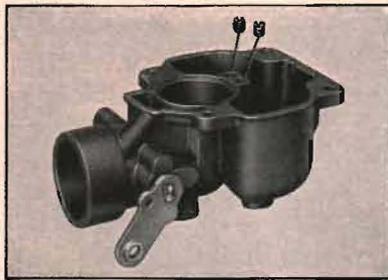
7. Remove bowl drain cock (found only on some models) and main metering jet assembly.



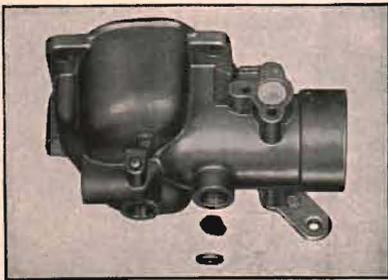
8. Fixed type main metering jet is shown in this picture.



9. Remove nozzle and gasket assembly (Use Tool T109-203).



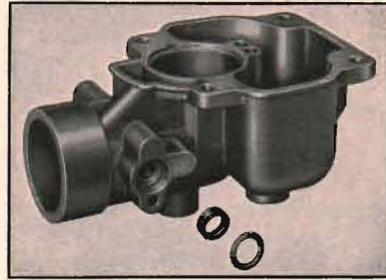
10. Remove nozzle bleed, and idle jet.



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



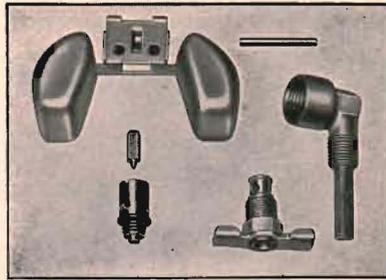
12. Remove choke valve screws, choke valve, choke shaft and lever assembly, choke lock pin, and spring. Note: when removing the choke shaft and lever assembly, be careful not to lose the choke lock pin and spring.



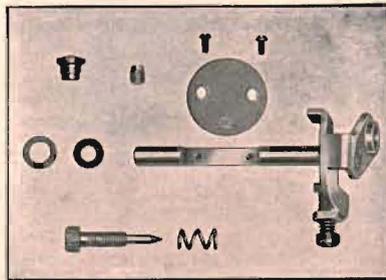
13. Pry out shaft seal retainer and remove seal. Do not remove expansion plugs from ends of throttle shaft and choke shaft when present.

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.

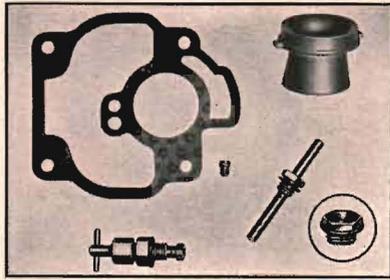
TO REASSEMBLE



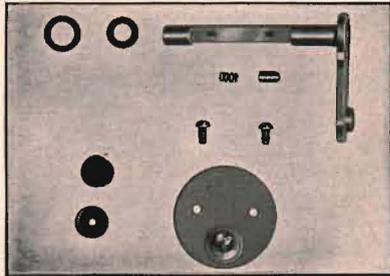
15. Group all parts controlling fuel level (float circuit): Float, float pin, needle and seat assembly, elbow and strainer assembly, bowl drain cock (if used).



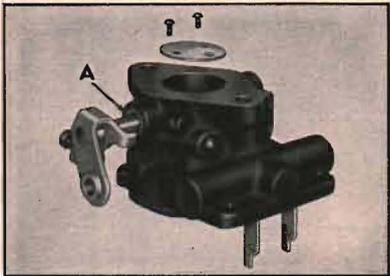
16. Group all parts controlling low speed circuit: Throttle shaft and lever assembly, dust seal, dust seal retainer, throttle valve and screws, idle adjustment screw and spring, idle jet screw plug, idle port rivet plug.



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.



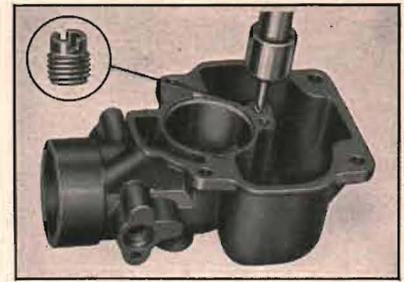
18. Group all parts controlling choke circuit: Choke shaft and lever assembly, dust seal, dust seal retainer, choke valve assembly, valve screws, choke lock pin and spring, air horn drain felt and retainer.



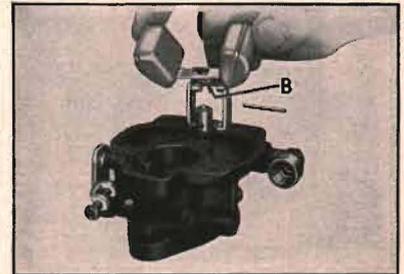
19. Install dust seal (with groove to outside) and retainer (throttle shaft) "A". Install throttle shaft and lever assembly. *Install throttle valve with "C" towards the idle port when viewed from flange side. Center valve in bore before tightening screws. Caution: Be sure throttle lever adjusting screw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



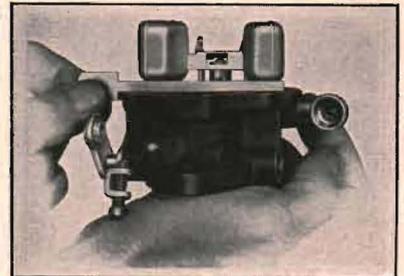
20. Install idle port rivet plug, idle adjustment screw and spring, and elbow and strainer assembly.



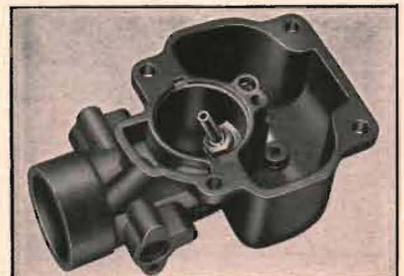
21. Install idle jet. Note: Idle jet has larger thread than nozzle bleed screw plug. Do not interchange parts.



22. Install needle and seat assembly (use tool T109-61, or screw driver wide enough to reach across slots), float and float pin with lip "B" of float lever against needle.

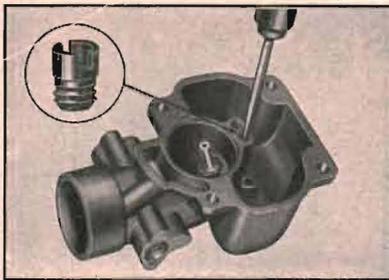


23. Set float to specifications as indicated on catalog page. Measure distance between machined surface of casting and float.

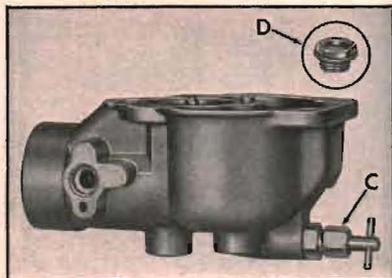


24. Install nozzle and gasket assembly.

*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.



25. Install nozzle bleed.



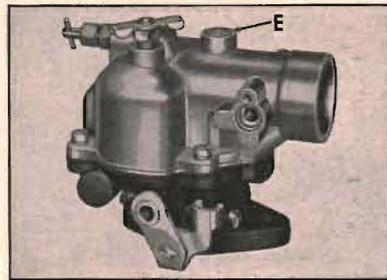
26. Install main metering jet assembly (adjustable "C" or fixed type "D").



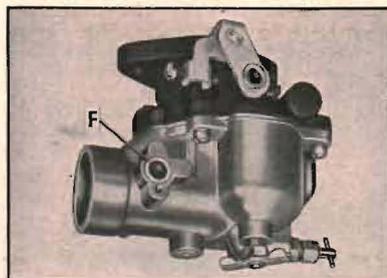
27. Install venturi in body casting, then install bowl cover gasket.



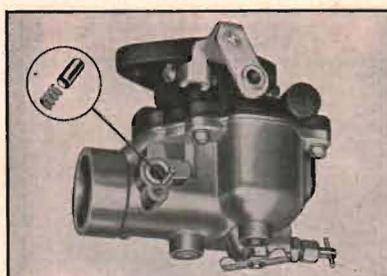
28. Install bowl cover as assembled. Install four bowl cover attaching screws. Tighten evenly and securely. (Retighten after carburetor has been in service).



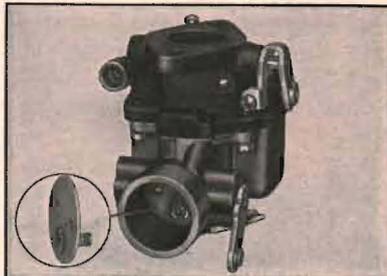
29. Install drain cock (where used), air horn drain felt and retainer "E". If necessary, carefully stake casting around dust seal retainer.



30. Install dust seal (with groove to outside) and retainer "F" (choke shaft). Press retainer to shoulder in casting and carefully stake casting around dust seal.



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



32. 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).

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