SERVICE PROCEDURE
BRASS BOWL UPRIGHT CARBURETER


BE ACCURATE.

1. Loosen pump arm assembly.

2. Remove throttle valve, bracket and rod assembly.

3. Remove throttle shaft and lever assembly.
   Loose lever will drop free. If throttle shaft is worn, or lever is loose on shaft, or if connector rod hole in lever is worn, replace.

4. Remove plunger and boot assemblies.
   Disassemble all parts.

5. Remove idle adjustment screw and spring.
   If seating surface is grooved or mutilated, replace.

6. Remove body and bowl nut assembly.
   Remove gasket.

7. Remove float lever pin, float and lever assembly and intake needle.
   Check float for dents and wear on lip, and float pin for wear. If float is loaded with gas, replace. If needle shows groove on seating surface, replace both needle and seat.

8. Remove ball check housing assembly.
   Check by blowing through assembly. Ball must seat tight but move freely.

9. Remove pump cylinder plug.

10. Remove low speed jet tube assembly.
   Examine to see that tube has been seating at upper end. If no seat mark shows, tapered seat in casting has been drilled out, and carbureter must be replaced.

11. Remove needle seat and gasket.

12. Remove multiple jet nozzle.

Copyright 1937
Copyright 1948
by Carter Carburetor Corporation
All Rights Reserved.
13. Remove pump jet assembly.
Examine and see that jet seats at both ends.

14. Remove well jet assembly.

15. Remove venturi pin.
(See note on bottom of page 4.)

16. Remove venturi.
Illustration shows proper use of venturi puller.

17. Remove venturi choke cone.

18. Remove stand pipe assembly.
When removing, be sure to hold choke lever in choke position to prevent injury to choke arm.

19. Remove choke shaft and lever assembly.
Check for loose lever and wear on shaft.

20. Remove venturi choke arm.
(See note at bottom of page)

TO REASSEMBLE

21. Group parts controlling gasoline level.

22. Group parts controlling idle circuit.
Check metering rod for wear. If worn, replace both rod and multiple jet nozzle.

23. Group parts controlling high speed circuit.

24. Group parts for pump circuit.

Note: Clean casting and all parts thoroughly with clean gasoline. Paint outside of body casting with Carter Special Body Finish. Be sure finish does not restrict passages.
25. **Group parts for choke circuit.**
   Examine each part in the five groups and replace any part that shows wear, or does not meet specifications.

26. **Assemble idle circuit parts as shown.**
   Never reinstall a used low speed jet. Be sure to scrape all carbon from bore of casting.

27. **Remove venturi, venturi pin and stand pipe from the high speed group and place them with the choke group for assembly.**

28. **Install venturi choke arm.**

29. **Install choke shaft and lever assembly.**
   Centralize choke arm on shaft after assembly.

30. **Install stand pipe assembly.**
   Hold choke lever in choke position while installing.

31. **Install choke cone.**
   Be sure venturi choke arm fits freely into groove in choke cone.

32. **Install venturi.**
   Use new venturi pin.

33. **Install throttle shaft and lever assembly.**
   Back out throttle lever adjusting screw.

34. **Install throttle valve, bracket and rod assembly.**
   Small "o" in circle or part number should be toward idle port when viewing casting from manifold side. Center throttle valve by tapping lightly and hold in place with finger before tightening screws. Always use new screws.

35. **Install body and bowl nut assembly to protect metering rod.**
   This should be done before tightening screws in valve.

36. **Install idle adjusting screw and spring.**
   Set idle adjusting screw to specifications.

37. **Install new low speed jet tube tightly.**

38. **Assemble remainder of high speed circuit parts.**
   Remove body and bowl nut assembly.
39. Install multiple jet nozzle. Seat firmly in casting.

40. Install well jet assembly. Do not install too tightly. A snug fit will prevent distortion.

41. Assemble parts for pump circuit. Replace both spring and leather if leather shows wear or mutilation. Test checks by blowing for free operation.

42. Install ball check housing assembly.

43. Install pump cylinder plug.

44. Install pump plunger assembly. Use loading cylinder to avoid damage to leather.

45. Install pump boot assembly and pump arm assembly. Loose lever should be installed on shaft before pump arm assembly.

46. Install needle seat and gasket assembly.

47. Assemble parts controlling gasoline level.

48. Install needle, float assembly and float plu. Set float level to specifications.

50. Install bowl, and body and bowl nut.

51. Protect your work with a Carter AirDome Fuel Filter.

NOTE: On carburetors having two-piece body castings, eliminate operations 15, 16 and 91.

Always use complete new gasket assortment when servicing a Carter Carbureter.

NO CARBURETER CAN DELIVER GOOD MILEAGE OR PERFORMANCE UNLESS COMPRESSION IS NORMAL AND THE MOTOR IS PROPERLY TUNED.