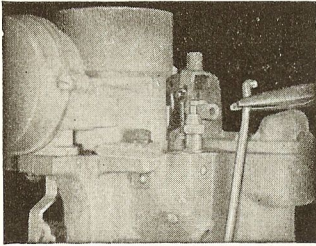
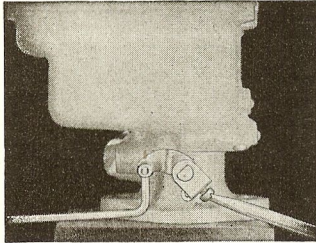


## SERVICE PROCEDURE W-1 CLIMATIC CONTROL CARBURETER

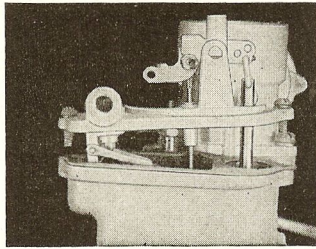
A fast, simple, Circuit method of servicing Carter W-1 Climatic Control Carbureters. Use Carter tool  
BE ACCURATE



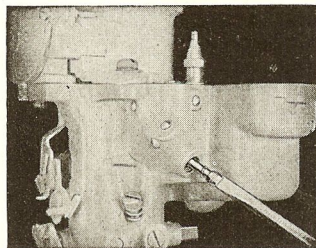
1.  
**Remove throttle connector rod at pump arm.**  
Check for wear at upper end of rod and hole in pump arm.



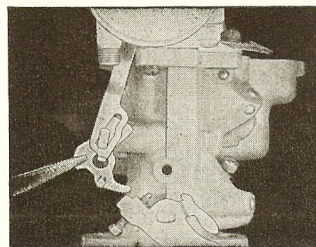
2.  
**Remove throttle connector rod and throttle shaft arm.**  
Check for wear at lower end of rod and hole in arm.



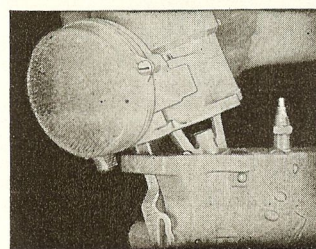
3.  
**Remove bowl cover with all parts attached.**  
(On 1934-35 models, air horn must be removed before bowl cover is removed.)



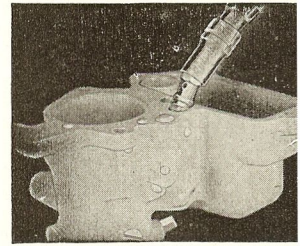
4.  
**Remove nozzle passage plug and nozzle.**  
Be sure to remove small nozzle gasket from casting.



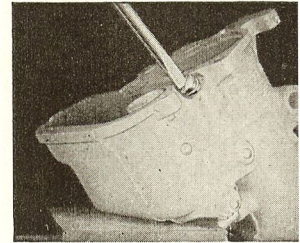
5.  
**Remove fast idle cam and pin assembly and screw.**  
Disconnect from fast idle link.



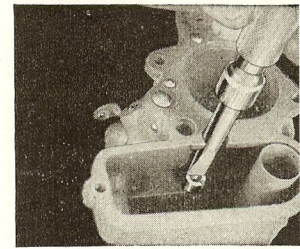
6.  
**Remove air horn and climatic control assembly.**



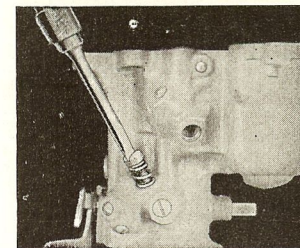
7.  
**Remove anti-percolator assembly.**



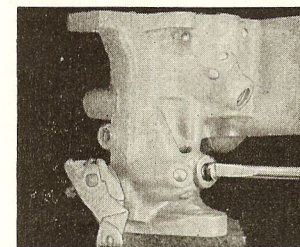
8.  
**Remove pump jet passage plug and pump jet.**  
Be sure to remove small copper washer from casting.



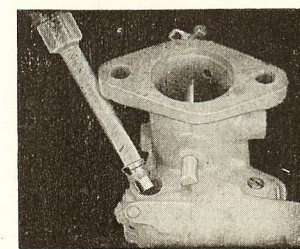
9.  
**Remove metering rod jet and gasket assembly.**



10.  
**Remove idle adjusting screw and spring.**  
Check for groove on seating surface.

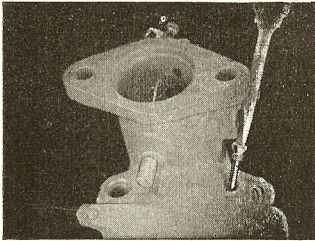


11.  
**Remove idle port plug.**

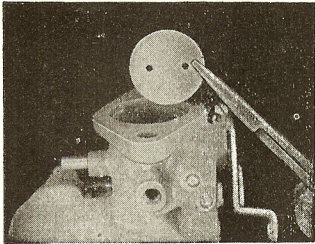


12.  
**Remove check valve passage plug strainer, intake and discharge check valves.**  
Remove copper washer from casting.

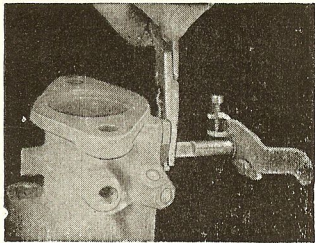




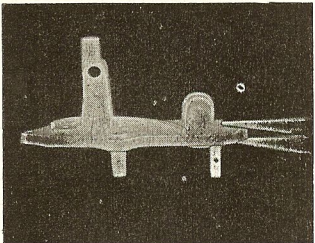
13.  
★Remove low speed jet.  
Remove small copper washer from casting.



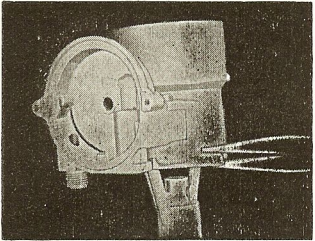
14.  
Remove throttle valve.



15.  
Remove throttle shaft and lever assembly.  
Check shaft for wear, loose lever and throttle rod hole in lever for wear.

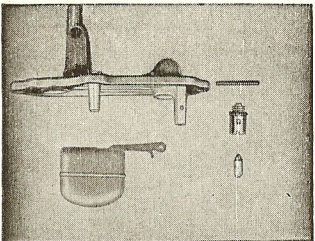


16.  
Remove all parts from bowl cover.

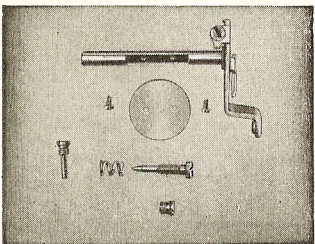


17.  
Remove all parts from air horn.  
Do not remove piston housing attached to air horn with rivet.  
(See note at bottom of page)

**TO REASSEMBLE**

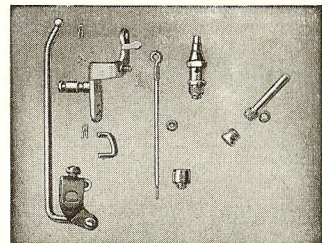


18.  
Group parts controlling the gasoline level.

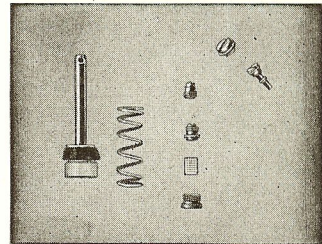


19.  
Group parts controlling idle circuit.

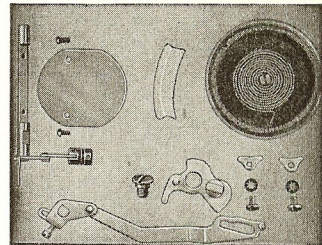
20.  
Group parts controlling high speed circuit.



21.  
Group parts for pump circuit.

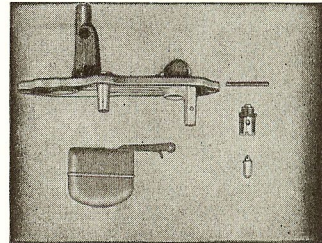


22.  
Group parts for choke circuit.  
Examine each part in the five groups and replace any part that shows wear, or does not meet specifications.

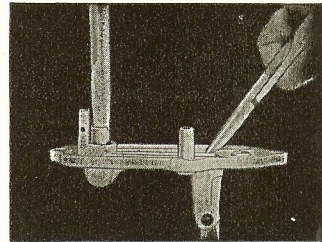


23.  
Assembly parts that control gasoline level as shown.

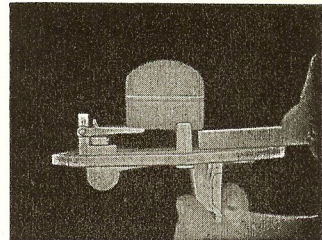
Check float for dents and wear on lip and float pin for wear. Check bowl cover for warpage and wear in countershaft hole. If needle shows groove on seating surface, replace both needle and seat.



24.  
Install needle seat and gasket assembly.

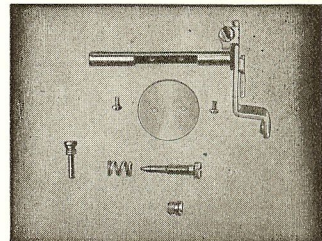


25.  
Install needle, float and lever assembly and float pin.  
Set float level to specifications by bending lip, not float.



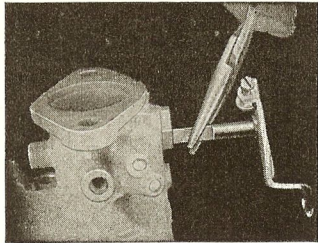
26.  
Assemble idle circuit parts as shown.

Never reinstall a used low speed jet. Use new jet and new copper washer. Be sure to scrape all carbon from bore of casting.



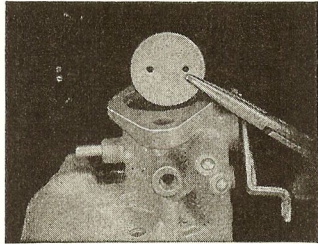
**Note:** Clean casting and all parts thoroughly, except cork pieces and coil and housing assembly, with clean gasoline. Paint outside of body casting, and inside of bowl to a depth of 1 in. from top edge of casting with Carter Special Body Finish. Be sure Finish does not restrict passages. ★On some carburetors the low speed jet is pressed in place and cannot be removed.





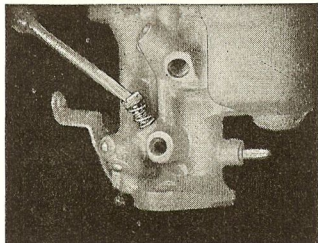
**27.**  
**Install throttle shaft and lever assembly.**

Back out throttle lever adjusting screw.



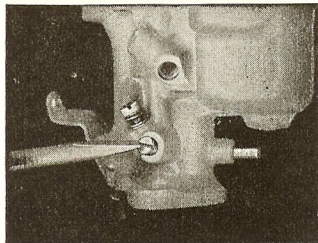
**28.**  
**Install throttle valve.**

Small "c" 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.

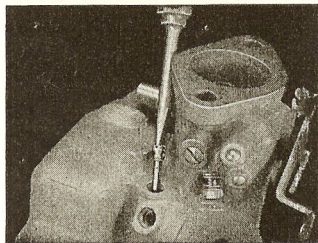


**29.**  
**Install idle adjusting screw and spring.**

Back out from seated position to specifications.

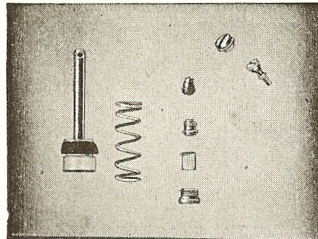


**30.**  
**Install idle port plug.**



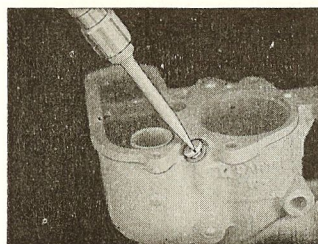
**31.**  
**\*Install low speed jet.**

Be careful to install new copper washer in casting before installing new jet.



**32.**  
**Assemble parts for pump circuit.**

Replace both spring and leather if leather shows wear or mutilation. Test checks by blowing for free operation.

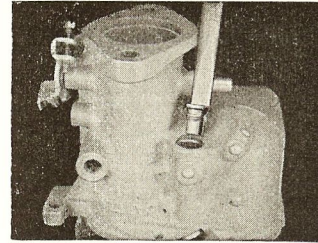


**33.**  
**Install pump discharge jet and plug.**

Be sure jet is clear of all restrictions and seats properly. Place new copper washer in casting before installing plug.

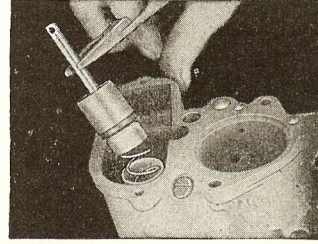
**34.**  
**Install discharge and intake checks, strainer and plug.**

Place new copper washer in casting before installing plug and strainer.



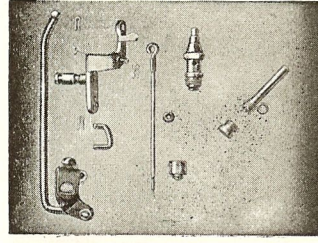
**35.**  
**Install pump spring and plunger assembly.**

Use loading tool to avoid damage to leather.

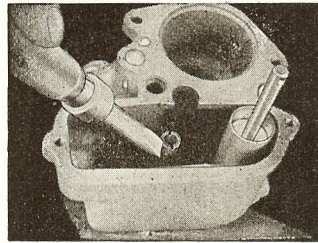


**36.**  
**Assemble parts controlling high speed circuit.**

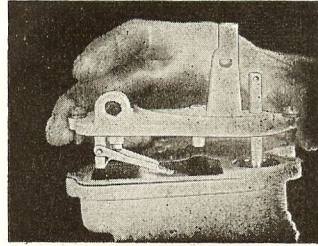
Check pump arm and countershaft for wear on shaft and for loose lever. If metering rod shows wear, replace both rod and jet. New nozzles should be used whenever carburetors are serviced. Check anti-percolator valve closely for dirt and wear.



**37.**  
**Install metering rod jet and gasket assembly.**

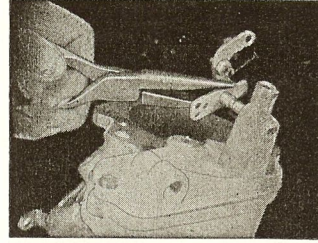


**38.**  
**Install bowl cover assembly and gasket.**

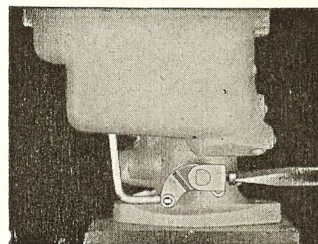


**39.**  
**Install pump arm and countershaft assembly.**

Connect pump shaft to pump arm with connector link.

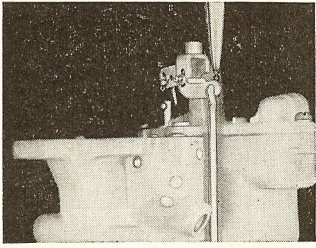


**40.**  
**Install throttle shaft arm and throttle connector rod.**

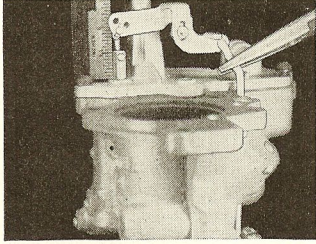


★ On some carburetors the low speed jet is pressed in place and cannot be removed.

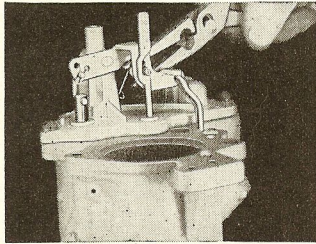




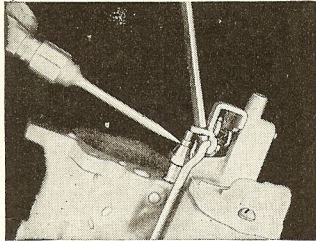
41. Connect upper end of throttle connector rod to pump arm.



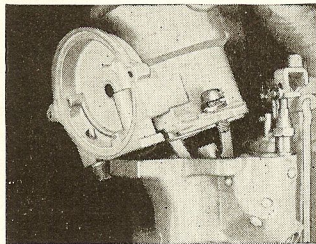
42. Bend throttle connector rod at lower end to give specified pump plunger travel. (This adjustment only for carburetors with specified pump stroke.)  
Do not bend throttle connector rod at point shown by pliers in picture. Bend at lower angle for adjustment.



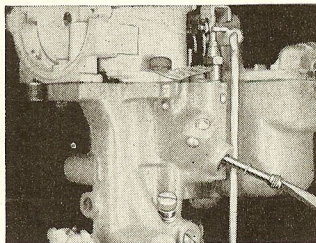
43. Install metering rod gauge. Hold gauge verticle to insure seating. For carburetors with adjustable metering rod pin, loosen nut on pin, and rest pin in notch of gauge and tighten nut (Tool No. T109-76). For carburetors with fixed pin, bend throttle connector rod so upper end centers freely in pump arm hole.



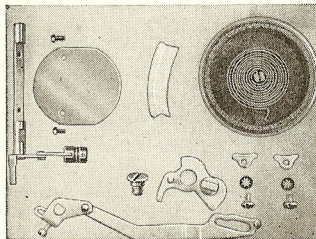
44. Install anti-percolator valve. Seat tightly. Adjust lip on pump arm so indicator line is flush with top of anti-percolator. Then install metering rod.



45. Install air horn.



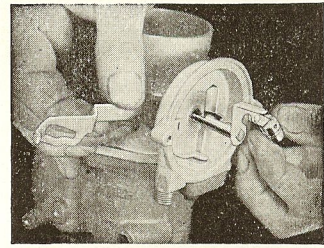
46. Install nozzle and nozzle passage plug. Put new gasket on nozzle before installing. Slip nozzles should always be installed with flat surface upward. Insert new copper washer in casting before installing plug.



47. Assemble choke parts. Check for loose lever on shaft.

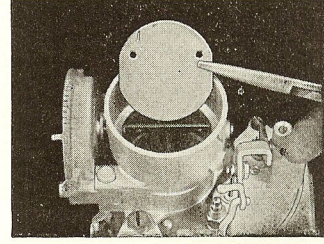
48. Install choke shaft and lever assembly with piston attached.

Be sure to install choker lever, screw and link assembly when installing choker shaft.



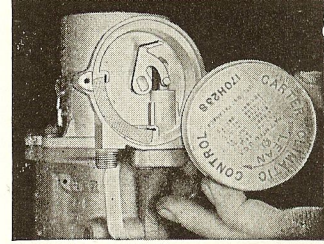
49. Install choker valve.

Use new screws when installing valve. Center choke valve by tapping lightly. Hold in place with fingers before tightening screws.



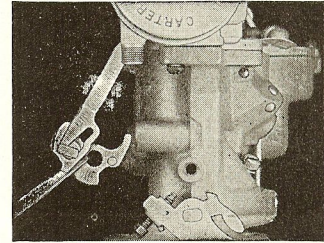
50. Install strainer and thermostatic coil and housing assembly.

Install thermostatic coil housing assembly with indicator mark to bottom. Then revolve housing 1/2 turn counter-clockwise and set indicator as specified.



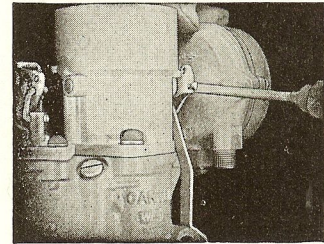
51. Install fast idle cam and pin assembly.

Attach to body with screw.



52. Tighten choker lever screw.

Be sure that linkage does not bind in any position. Fast idle, unloader and lockout adjustments must be made as specified. Protect your work with a Carter Airdome Fuel Filter.



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

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

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