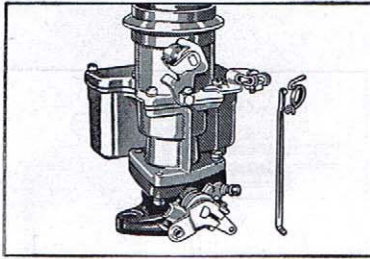
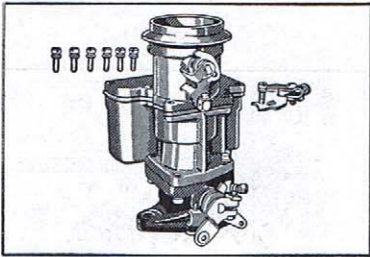


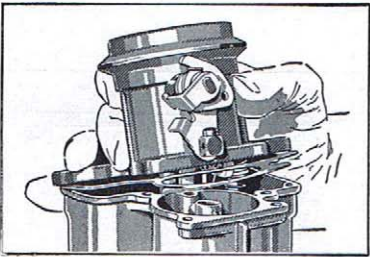
SERVICE PROCEDURE YF DOWNDRAFT CARBURETOR



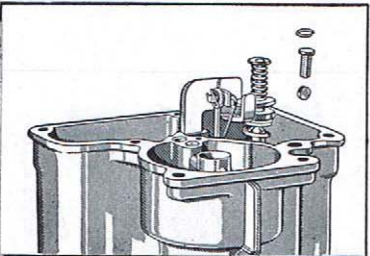
1. Remove pin springs, fast idle connector rod spring and rod.



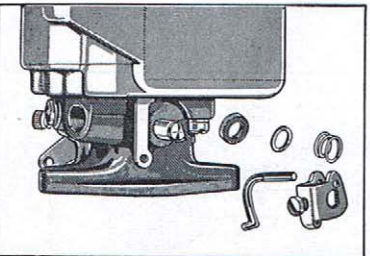
2. Remove air horn and bowl cover attaching screws (7), and choke tube clamp assembly.



3. Remove air horn assembly and gasket.

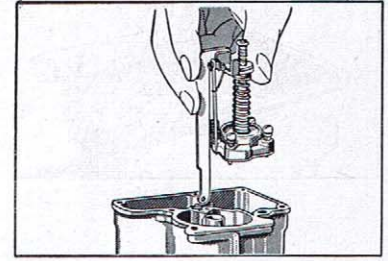


4. Remove pump disc retainer ring (using knife tip) retainer and pump check disc.

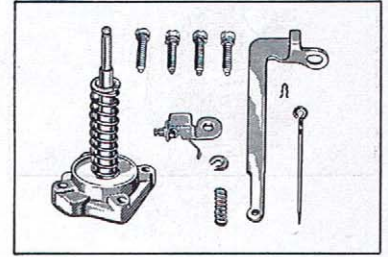


5. Remove throttle shaft assembly, pump connector link, shaft seal spring, dust seal washer and felt dust seal.

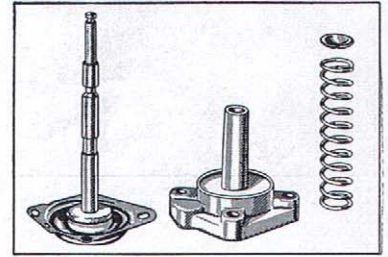
6. Loosen diaphragm housing attaching screws (4) and lift out entire pump and metering rod assembly.



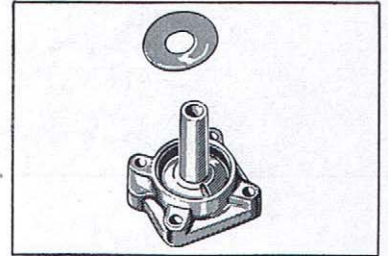
7. Remove diaphragm housing attaching screws, pin spring, metering rod, upper pump spring retainer, upper pump spring, metering rod arm assembly and pump lifter link.



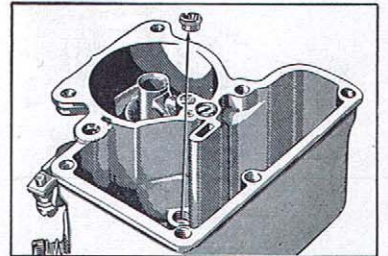
8. Remove diaphragm spring retainer, spring and pump diaphragm assembly.

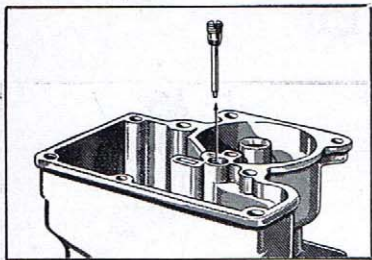


9. Carefully remove pump intake strainer from housing, using tip of knife blade.

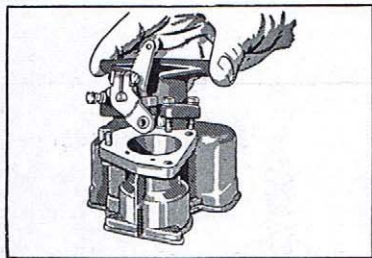


10. Remove metering rod jet.

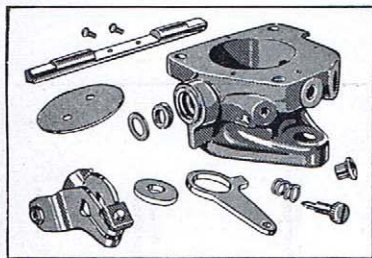




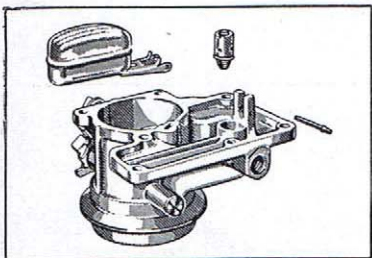
11. Remove low speed jet assembly. Do not remove pressed in parts such as: nozzle, pump jet or anti-percolator air bleed.



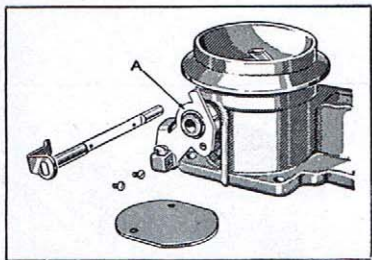
12. Remove body flange attaching screws (3), body flange assembly and gasket.



13. Remove idle adjustment screw, spring, idle port rivet plug, throttle lever assembly, washer, fast idle arm, valve attaching screws (2) and throttle shaft. Then remove throttle shaft seal by prying out seal retainer. Do not remove vacuum passage orifice (pressed in).



14. Remove float pin, float, and needle and seat assembly from air horn casting.

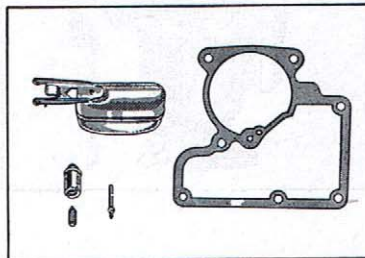


15. Remove choke valve screws and choke valve. Unhook choke spring and slide shaft from housing. Do not remove balance vent tube. Note: In normal service, choke lever assembly will not require replacing. However, if it has been bent or otherwise damaged requiring replacement, proceed as follows: Pry off choke lever retainer ring (A) and remove lever assembly.

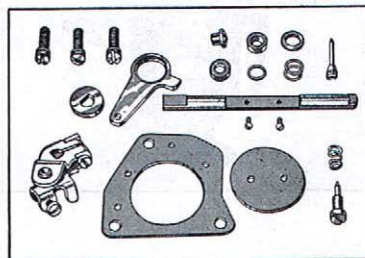
16. Wash all parts in carburetor cleaning solution and blow out passages with compressed air. Do not immerse diaphragm assembly, pump check disc or seals in cleaning solution. Inspect all parts for wear or damage—replace if necessary. Always use new gaskets.

TO REASSEMBLE

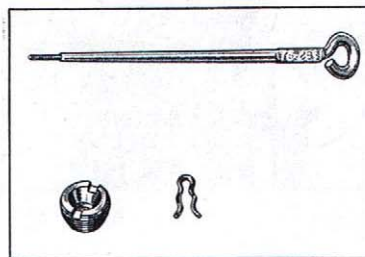
17. Group all parts controlling float circuit: float, float pin, needle and seat assembly, air horn gasket.



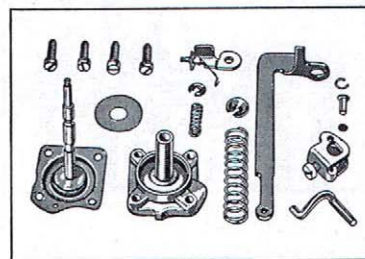
18. Group all parts controlling low speed circuit: Throttle shaft seals (2) and retainers (2), throttle shaft, throttle valve and screws, fast idle arm, throttle shaft washer, throttle lever assembly, idle port rivet plug, idle adjusting screw and spring, gasket, attaching screws (3), low speed jet, throttle shaft seal spring.



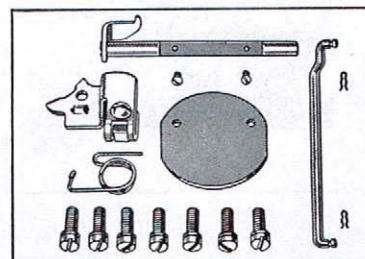
19. Group all parts controlling high speed circuit: Metering rod, metering rod jet, pin spring.

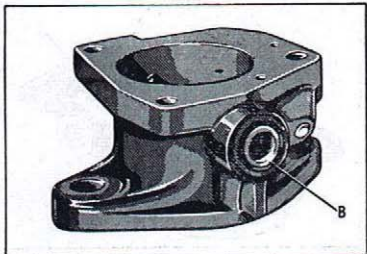


20. Group all parts controlling pump circuit: Pump lifter link, pump connector link, throttle shaft arm assembly, metering rod arm assembly, pump diaphragm housing, pump diaphragm assembly, pump diaphragm spring, diaphragm spring retainer, pump intake strainer, upper pump spring, upper pump spring retainer, pump disc check, pump disc retainer, pump disc retainer ring, diaphragm housing screw and washer assemblies (4).



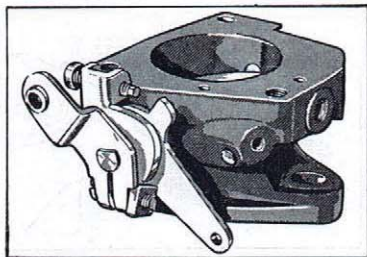
21. Group all parts controlling choke circuit: Choke valve and screws (2), choke shaft and lever assembly, fast idle connector rod and spring, choke tube clamp assembly, air horn attaching screw and washer assembly (7), pin spring (2).





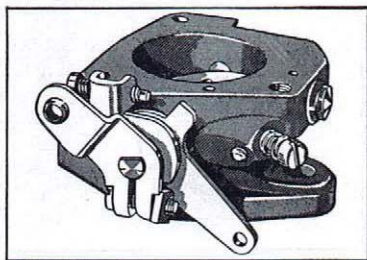
22.

Install throttle shaft seal and retainer (B) in flange casting.



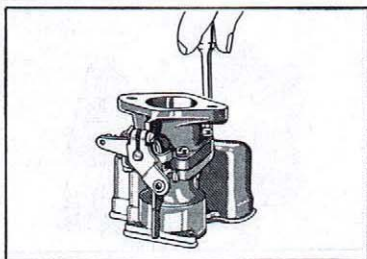
23.

Install fast idle arm, washer and lever assembly on throttle shaft, slide shaft into place and install throttle valve. Carter trademark (c) should go toward the idle port when viewed from manifold side of flange. Tap valve and hold in place with finger before tightening screws.



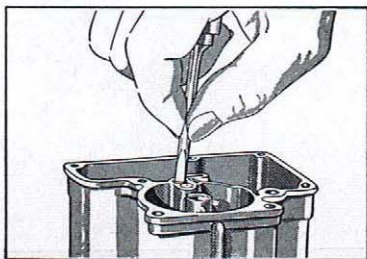
24.

Install idle port rivet plug and idle adjusting screw and spring.



25.

Attach flange assembly to body casting. Use new gasket.

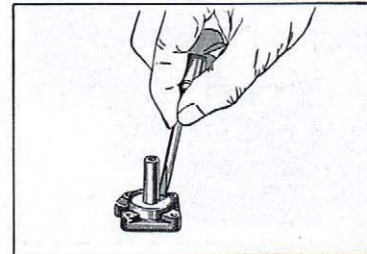


26.

Install low speed jet assembly.

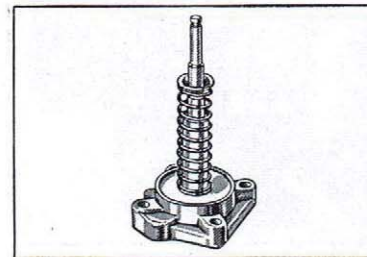
27.

Install pump intake strainer in pump diaphragm housing and carefully press into recess. Caution: If strainer is even slightly damaged, a new one must be used.



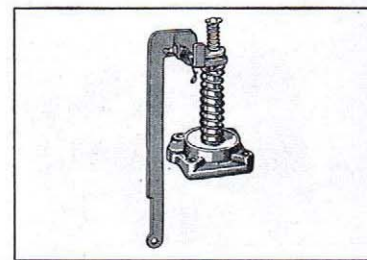
28.

Install pump diaphragm assembly in diaphragm housing, then install pump diaphragm spring (lower) and retainer.



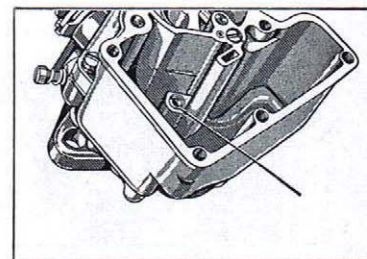
29.

Install pump lifter link, metering rod arm, upper pump spring and retainer.



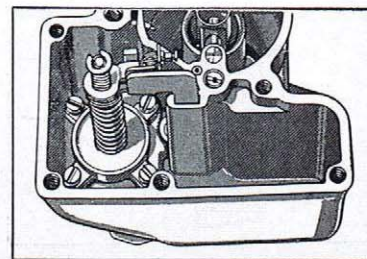
30.

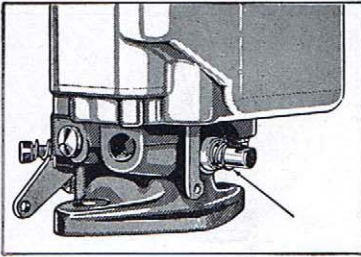
Install metering rod jet. (No gasket used with this jet.)



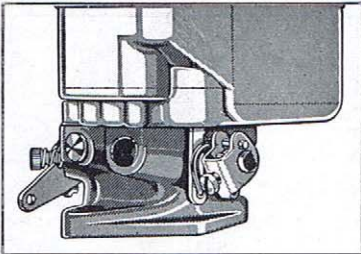
31.

Install diaphragm housing attaching screws (4) in the diaphragm housing, making sure the edges of diaphragm are not wrinkled. Lower into place and tighten screws evenly and securely.

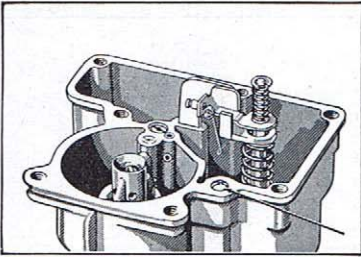




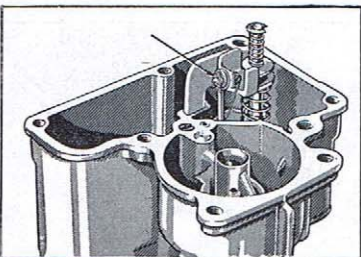
32.
Install throttle shaft seal, dust seal washer, and shaft seal spring.



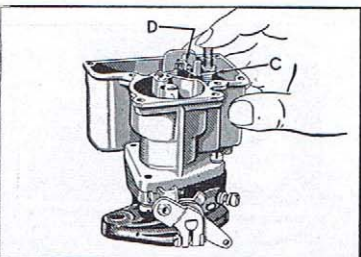
33.
Install pump connector link in the throttle shaft arm assembly. Install throttle shaft arm assembly on throttle shaft, guiding connector link into pump lifter link hole. Caution: Linkage must not bind in any throttle position. If binding occurs, loosen clamp screw in throttle arm, adjust slightly and retighten screw.



34.
Install pump check disc, disc retainer, and lock ring.

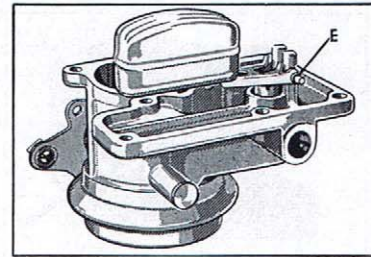


35.
Install metering rod and pin spring. Connect metering rod spring.

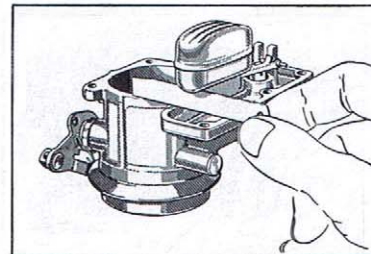


36.
Metering Rod Adjustment: Be sure flat of metering rod arm is parallel to flat of pump lifter link before proceeding with metering rod adjustment. With throttle valve seated, press down on upper end of diaphragm shaft. Metering rod should be seated in casting and metering rod arm flat against pump lifter link (C). If metering rod does not seat in body casting (check by pressing downward on metering rod) or seats before the metering rod arm makes flat contact with pump lifter link, raise or lower by bending lip (D) on metering rod arm.

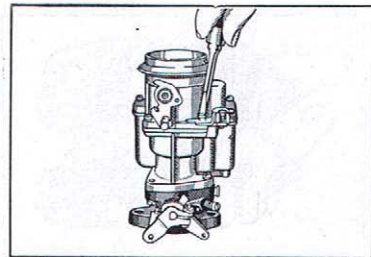
37.
Install needle seat and gasket assembly, needle, float and float pin. Stop shoulder (E) on float pin must be on side away from bore of carburetor.



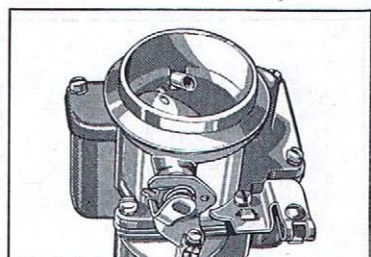
38.
Set float level to catalog page specifications. Measure from machined surface of casting (gasket removed). Adjust by bending lip which contacts needle.



39.
Install air horn gasket and air horn assembly. Install attaching screws and lock washers (7) and choke tube clamp assembly. (Tighten center screws first.)



40.
Slide choke shaft and lever assembly into place and connect choke lever spring. Install choke valve. Center valves by tapping lightly and hold in place with fingers when tightening screws.



41.
Install fast idle connector rod with offset portion of the rod to top and pin spring to the outside (F). Install fast idle connecting rod spring.

