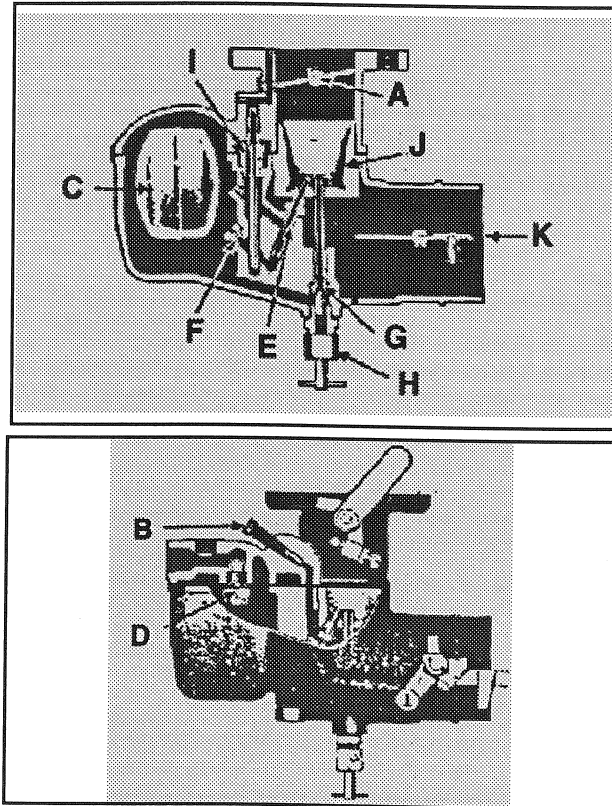


## Service Instructions for Repair of Zenith 124 1/2 Series Carburetors



Check number on metal identification tag riveted to carburetor to determine that repair kit is applicable to numbers shown. The Zenith assembly number is the inside number on tag and the tractor manufacturer's number is on the outer edge.

### DISASSEMBLE THE CARBURETOR

1. Separate upper body from lower body taking care to avoid damage to float. Remove and save all parts from upper and lower bodies.
2. Clean both castings thoroughly in carburetor cleaner solvent or gasoline if solvent is not available.
3. Blow out all channels and passages with compressed air. Be sure castings are clean.

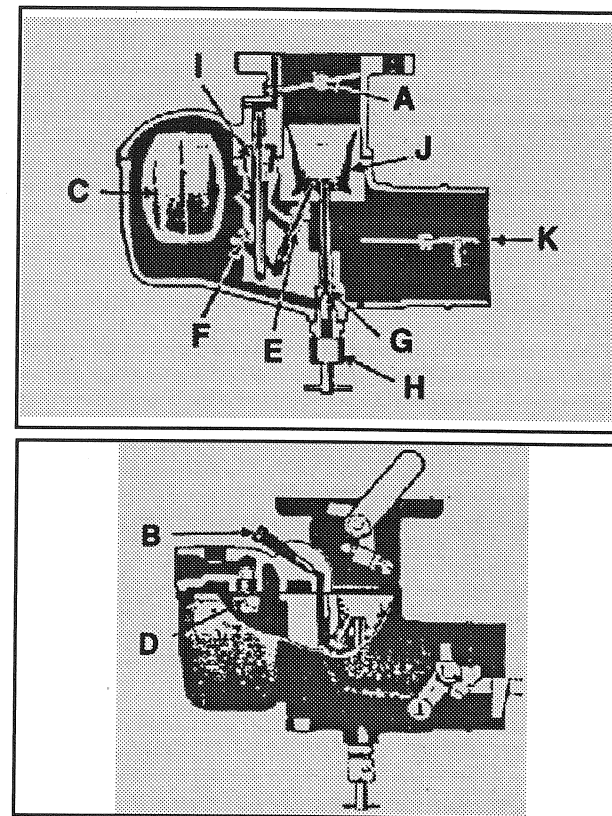
### REASSEMBLE THE CARBURETOR

(Always install all parts contained in kit)

1. Inspect throttle shaft bearing surfaces for wear. If worn, ream out and bush with proper tool. If casting has been bushed previously, rebush with bushings supplied in repair kit.



## Service Instructions for Repair of Zenith 124 1/2 Series Carburetors



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1. Inspect throttle shaft bearing surfaces for wear. If worn, ream out and bush with proper tool. If casting has been bushed previously, rebush with bushings supplied in repair kit.



2. Install throttle shaft, retainer and packing in position, then insert throttle plate (A). Back off idle screw on throttle shaft so throttle plate will close tight. Insert screws and tighten securely. If throttle shaft binds, turn to closed position and lightly tap shaft directly over center of throttle plate.
3. Install idle adjusting needle (B) and spring.
4. Install fuel valve assembly (D) and gasket.
5. Install float (C) (float baffle and spring when present) and float axle.
6. To adjust float for correct fuel level, place throttle body flange down and bend float lever close to float body so that float measures as follows from gasket surface of casting to farthest point of float: 1-1/2", plus or minus 3/64", for vertical type float and 1-1/16", plus or minus 3/64", for horizontal type float with baffle and 1-7/32", plus or minus 3/64", for horizontal type float without baffle.
7. Install cap jet (E) and gasket.
8. Install compensator jet (F) and gasket.
9. Install main jet (G) and gasket.
10. Install main adjusting assembly (H) and gasket.
11. Install idle jet (I).
12. Place the bowl to body gasket in position on the throttle body assembly, then place venturi (J) in position in the barrel.
13. Install air shutter shaft in bowl casting in same positions as removed.
14. Install air shutter plate (K) with spring of poppet valve down. Be sure air shutter plate is centered before tightening screws securely.
15. Assemble upper body to lower body being careful to avoid damage to float.
16. Insert assembly screws and tighten evenly and securely.

### PRIMARY ADJUSTMENTS

1. Set idle screw on throttle shaft one complete turn off stop pin.
2. Set idle adjusting needle to one full turn off seat.
3. Set main adjusting needle to one full turn off seat.

2. Install throttle shaft, retainer and packing in position, then insert throttle plate (A). Back off idle screw on throttle shaft so throttle plate will close tight. Insert screws and tighten securely. If throttle shaft binds, turn to closed position and lightly tap shaft directly over center of throttle plate.
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