

# CLEANING and INSPECTION

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1. Place carburetor body in a carburetor cleaning solution for a short period of time to remove all dirt, gum and varnish which may have accumulated.

*NOTE: Carburetor cleaners are available through local automotive supply stores.*

2. After removing carburetor from cleaner, rinse thoroughly in clean solvent and blow off with compressed air. Be sure to blow through all passages, orifices and nozzles.
3. Check fuel filter for chips or cracks.

## REASSEMBLY

### FLOAT

1. Check for deterioration and saturation.
2. Check float spring adjustment.
3. Check that spring has not been stretched.
4. Place float in bowl on float pin.
5. Place inlet needle seat gasket in float bowl cover and thread inlet needle securely in place. Torque to 60 in. lbs. (69.1 kg-cm).
6. Set inlet needle in seat (neoprene).
7. Place upper (secondary) float lever in position and insert float lever pin (Figure 7)
8. Replace lower (primary) float lever and pin.

### FLOAT LEVEL and DROP ADJUSTMENT

1. Invert float bowl cover. Distance from face of shoulder in primary lever is  $13/32$ " (10mm), plus or minus  $1/64$ " (.4mm). (Figure 7) Bend primary lever as required.

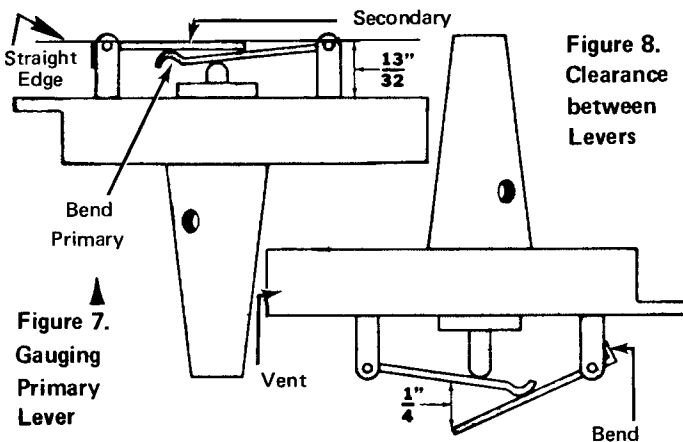


Figure 8. Clearance between Levers

2. Be sure needle does not stick in seat. Tip unit upright, and needle should move freely on actuating primary lever.
3. Hold float bowl cover upright. (Figure 8) Distance between levers is  $1/4$ " (6.4mm). Bend tab on secondary lever as required.
4. Check that float spring measures approximately  $3/32$ " (2.4mm) from top of float (not insert) to end of exposed spring. (Figure 9)
5. Install new gasket on float bowl cover and replace on carburetor float bowl, securing with 2 screws and lockwashers. Vent hole in cover must be installed toward carburetor mounting flange.

### FUEL FILTER

1. Install fuel filter gasket, fuel filter element, another gasket and filter bowl cover.
2. Replace filter bowl cover gasket and secure filter on carburetor with  $3/8$ " cap screw.

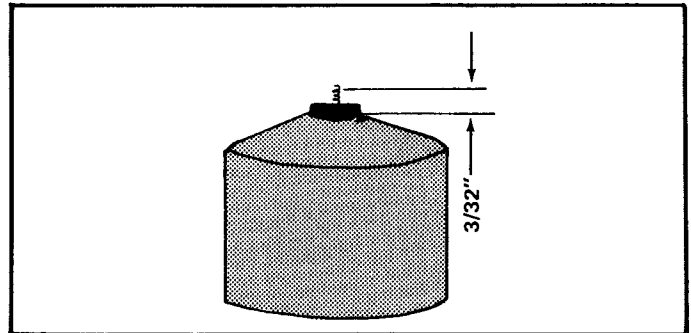


Figure 9. Carburetor Float Assembly

### CHOKE SHUTTER

1. Reassemble shutter and screen on carburetor throat studs and secure with 2 nuts.
2. If applicable, reassemble choke linkage to shutter.

### THROTTLE SHUTTER

*NOTE: There are 2 throttle shutter return springs in the carburetor repair kit. The higher tension spring is used on single carburetor engines or on the upper carb on multi-carb (3, 4 or 6-cylinder) engines. The lighter tension spring is used on carburetors which are operated by the carburetor above it (3, 4 and 6-cylinder engines).*

1. Insert throttle shaft return spring in recess at lower end of carburetor.
2. Insert throttle shaft into top of carburetor and into return spring slot. Be sure to have one coil of spring turned to allow sufficient return of throttle shutter to closed position from spring tension.
3. Insert throttle shutter into carburetor throat and secure to throttle shaft with 2 screws and lockwashers.

### MAIN DISCHARGE NOZZLE

1. Position plastic boost ventura in carburetor throat.
2. Insert the main nozzle into receptacle at bottom of carburetor and, with proper size screwdriver, thread in securely.
3. Thread discharge plug into carburetor.

### FIXED HIGH SPEED JET

1. Place gasket (where applicable) on correct fixed jet and insert jet (chart by models in "Specifications" Section 8) into carburetor.
2. Place gasket on  $3/8$ " (9.5mm) brass hex head plug and secure plug with wrench.

### IDLE RESTRICTION TUBE

1. Place gasket (where applicable) on idle restriction tube and insert into top of carburetor. (Figure 2)