

Figure 2. Gauging Primary Lever

5. Invert float bowl cover. Distance from face of shoulder to primary lever is  $13/32''$ , plus or minus  $1/64''$ . (Figure 2) Bend secondary lever as required.
6. Be sure needle does not stick in seat. Tip unit upright, and needle should move freely on actuating primary lever.
7. Hold float bowl cover upright. (Figure 3) Distance between levers is  $1/4''$ . Bend tab on secondary lever as required.

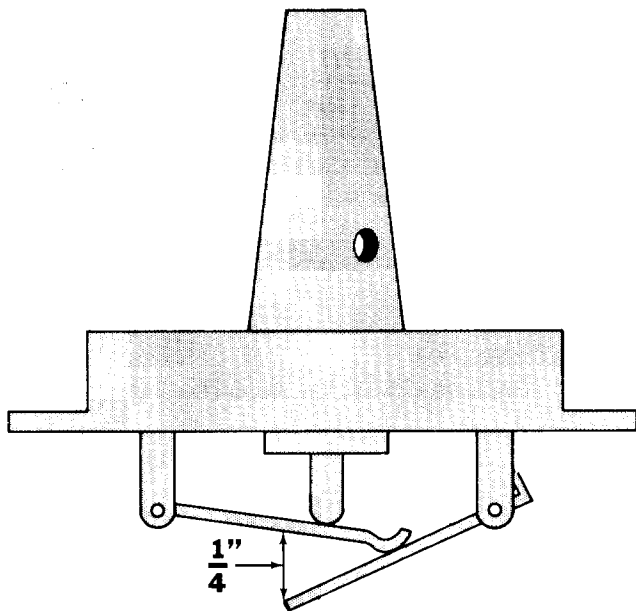


Figure 3. Clearance between Levers

8. Check float(s) for deterioration and/or saturation.
9. Check that float spring measures approximately  $3/32''$  from top of float (not insert) to end of exposed spring. (Figure 4)

10. Place float in bowl on float needle.
11. Float should spin freely in bowl. If anything restricts float movement, correction should be made, or flooding will occur.
12. Install new gasket(s) and replace float bowl cover(s).

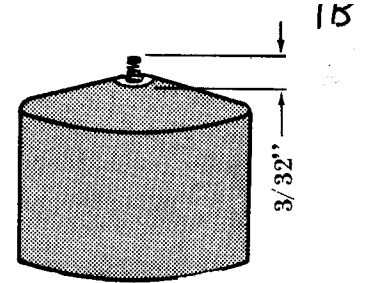


Figure 4. Carburetor Float Assembly

## 2-CYLINDER MODELS

1. Clearance between choke shutter and carburetor must not exceed  $.015''$  (.38mm) when choke is closed, or engine will start hard.
2. It may be necessary to readjust the carburetor idle mixture screw up to  $1\frac{1}{4}$  turn with each change in brand of gasoline to compensate for varying volatility and differences in refining process.

## 4 & 6-CYLINDER MODELS

Hard starting is often traced to improper choke shutter operation. Adjust choke linkage and choke return spring for fast, positive action of the choke shutters.

# "4" Fuel System

## FUEL PUMPS - VACUUM TYPES

Merc 60-110 (Up to 1969 Models) (Figure 5)

1. Wash all parts carefully and inspect for wear or damage.
2. If old diaphragm shows any sign of deterioration, replace with new.

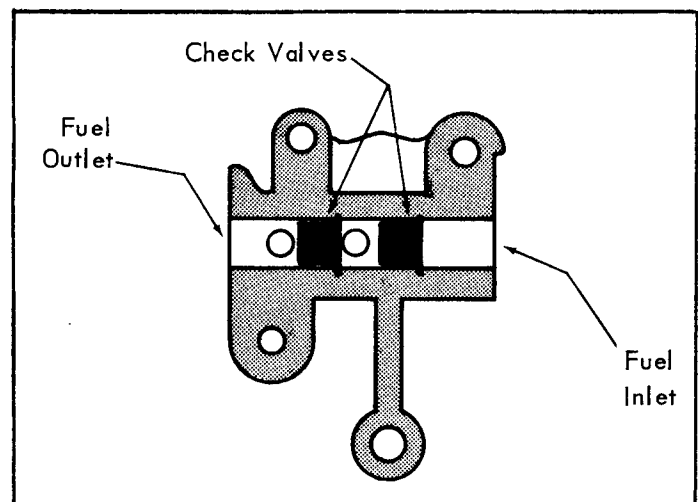


Figure 5. Merc 110-60 Fuel Pump

3. Test check valves by blowing thru outlet hole. Air should be drawn thru valve but should close immediately when attempting to blow thru it.
4. Test inlet valve by reverse procedure. If leakage is encountered, replace check valves. See Section VI of this manual.
5. Reassemble, using new gaskets.