FLOAT LEVEL and DROP ADJUSTMENTS

1. Remove cowl.
2. Remove filter cover(s) and fuel filter(s).
3. Remove float bowl cover(s) and float(s).

NOTE: On electric models, it may be necessary to remove starter motor.

4. Inspect carburetor bowl(s) for sediment, gum or varnish deposits. If dirt, gum or varnish is present, it will be necessary to remove carburetor(s) and clean, as outlined in Section 4 of this manual.

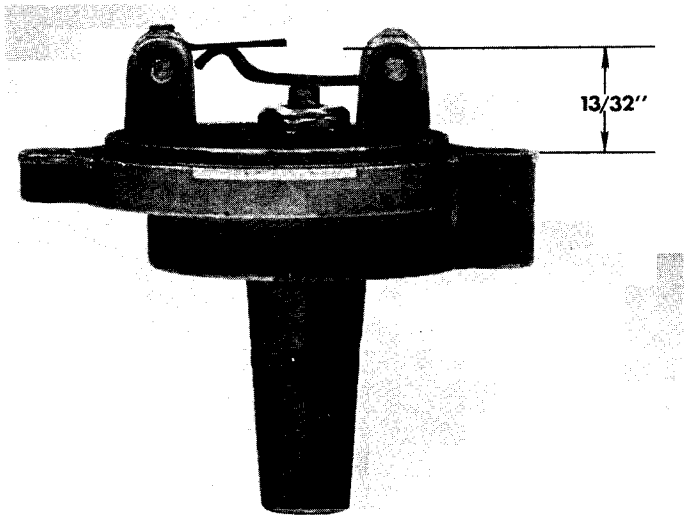

Figure 2. Gauging Primary Lever

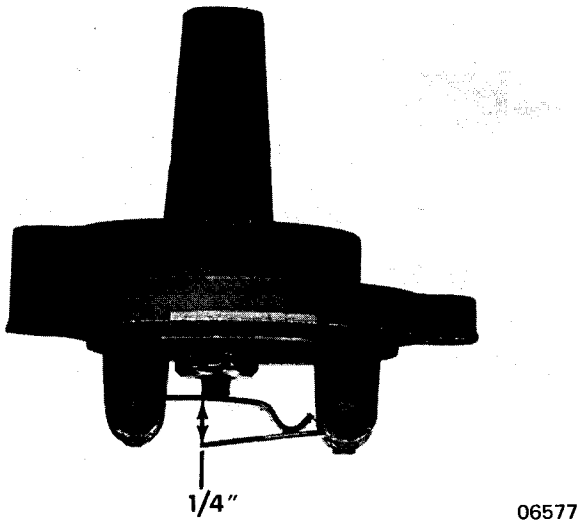

Figure 3. Clearance between Levers

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.

NOTE: In metric scale 1" = 25.4mm.

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 ¼". Bend tab on secondary lever as required.
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)

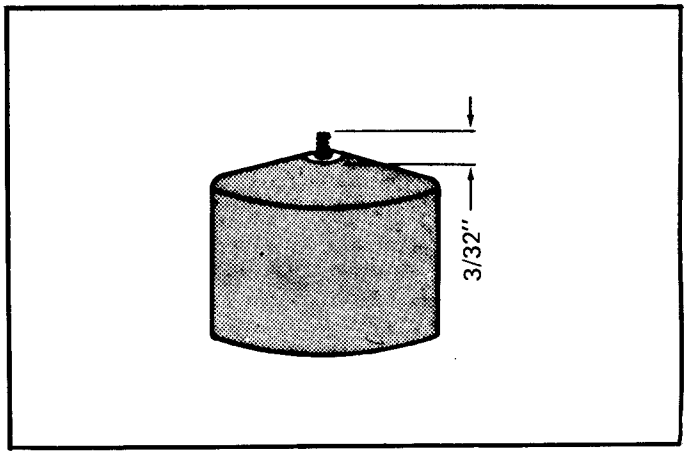

Figure 4.
Carburetor Float Assembly

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).

HARD STARTING

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

FLOAT LEVEL and DROP ADJUSTMENTS

(Merc 200-110-75[1973])

1. Adjust float level to ¼"±1/64" from float bottom to casting. (Figure 5)

NOTE: Hold carburetor upside down for ease of measurement.

2. Adjust float drop to get 1/64" to 1/32" between bottom of float and fixed jet. (Figure 6) Adjust by bending tang on float.
3. Install new float bowl gasket. Secure float bowl with 2 fiber washers and screw.