

mixture will cause overheating and loss of power. Sustained full throttle operation with an excessively-lean mixture may cause severe engine damage.

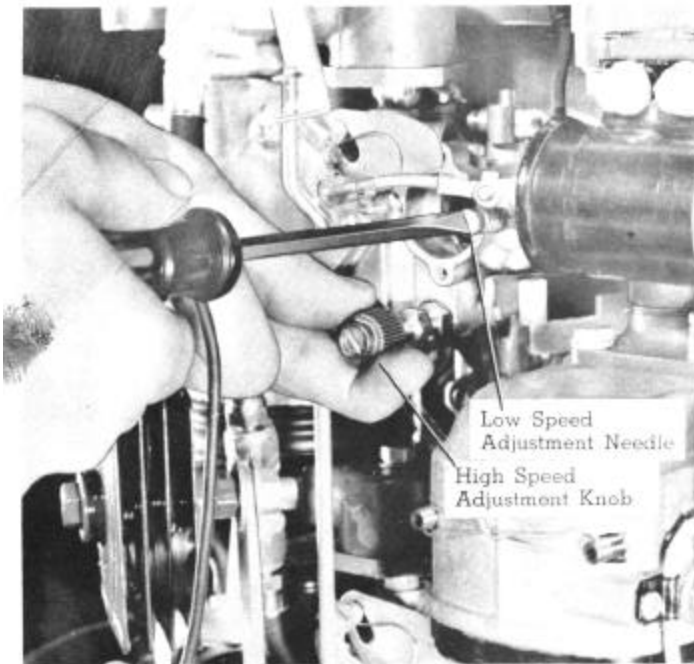


Figure 3. Carburetor Adjustments

### B. Idle Adjustment

Make idle adjustment after high speed adjustment is completed. It, too, can be done with the carburetor adjusting propeller (48-26976) in the test tank or on the boat. Start with all idle needles  $7/8$  turn open and adjust for maximum RPM with magneto retarded to give about 600 RPM. With the engine running at idling speed while in forward gear, turn low speed mixture adjusting needle counterclockwise until engine starts to "load up" or fire unevenly due to over-rich mixture. (Figure 3) Then slowly turn the needle clockwise until cylinders fire evenly and engine picks up speed. Do not adjust leaner than necessary to attain reasonably smooth idling. When in doubt, it is preferable to have the mixture set slightly rich rather than too lean.

**NOTE:** Idle cannot be adjusted while in "Neutral" or engine will sputter and stop when shifted to "Forward" because of "no load" condition while adjusting.

## III. Linkage Adjustment

### A. Pickup Adjustment

With engine running in forward gear, loosen 2 hex head cap screws which hold carburetor actuating bracket on magneto. Advance throttle (magneto) to obtain 1100-to-1200 RPM. Rotate carburetor actuating bracket so that it just touches back of throttle pickup bracket. (Figure 4) At this RPM, secure carburetor

actuating bracket in position by tightening the 2 cap screws.

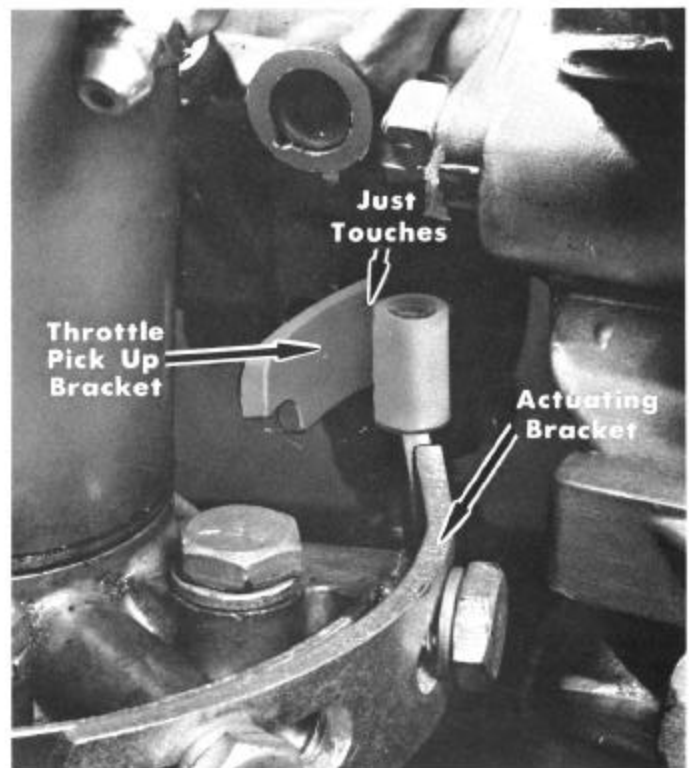


Figure 4. Pickup Adjustment

### B. Neutral RPM

Shift into neutral gear with engine running and advance magneto control lever until control lever is stopped by shift lock bracket recess at 2400-to-2500 RPM. (*IMPORTANT: This procedure also is used for maximum shift and reverse RPM.*) To adjust, loosen vertical magneto actuating bracket to increase or decrease RPM. (Figure 5) While holding magneto, move vertical bracket to forward to increase neutral RPM, back to decrease neutral RPM. After proper neutral RPM has been obtained, tighten vertical actuating bracket screws. Shift into reverse and back to forward several times. Check position of detent spring and adjust if necessary.



Figure 5. Adjusting Magneto Actuating Bracket