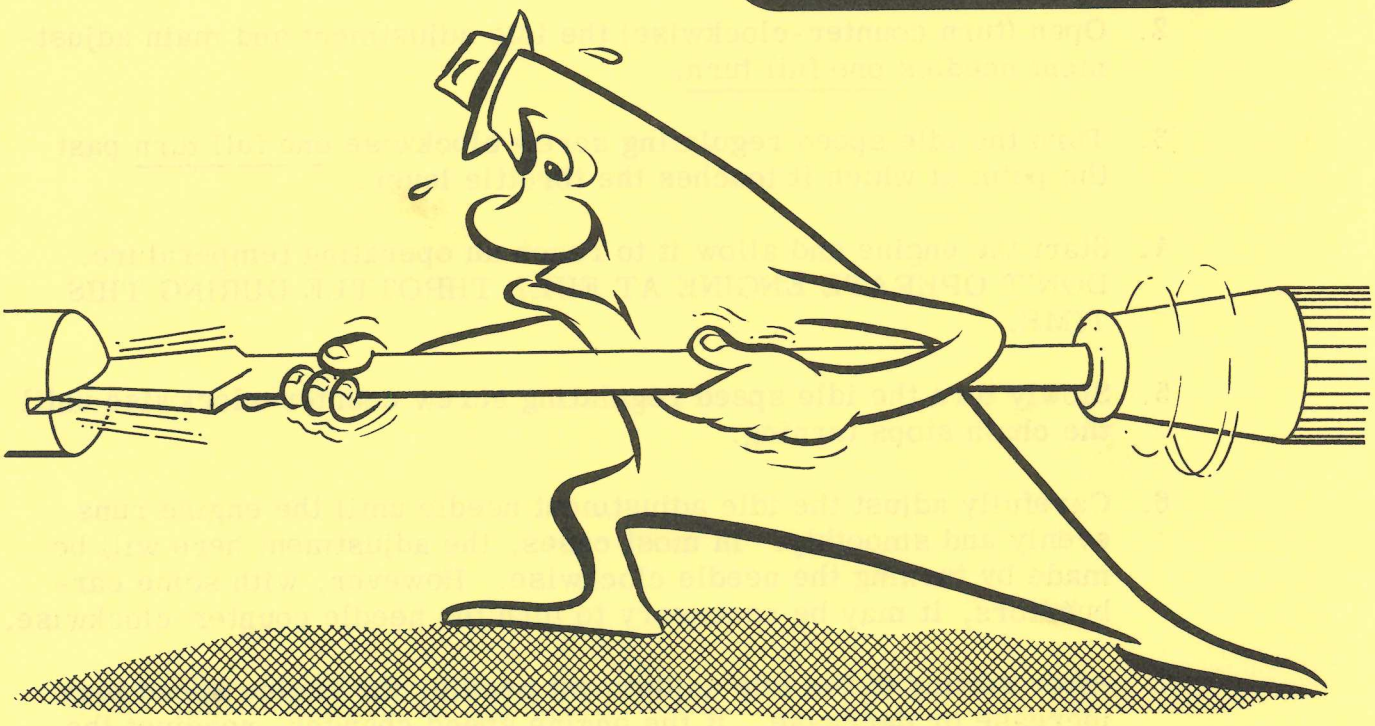
McCULLOCH

SERVICE BULLETIN #1114

SUBJECT: CORRECT CARBURETOR ADJUSTMENT

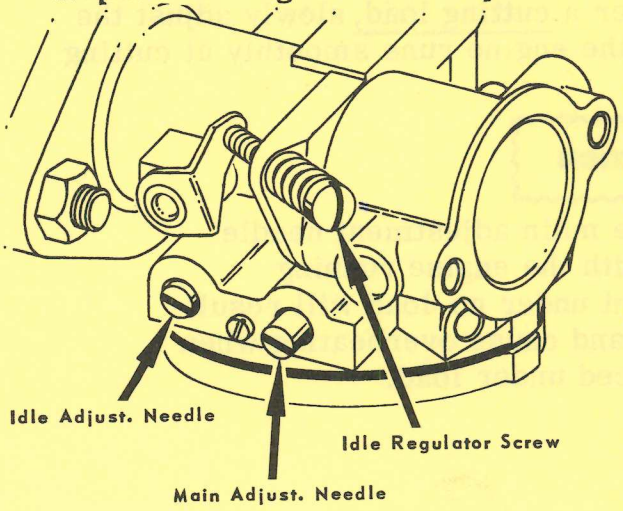
MODEL **ALL**

DATE 11/28/60



Correct carburetor adjustment requires correct settings of good parts. If the parts are worn or damaged, a proper adjustment cannot be made, and the engine will be restricted from providing the best cutting performance for which it was designed.

When adjusting the carburetor, always make sure that the idle and main adjustment needles are in good condition. Also, check the idle speed regulating screw for end-burrs which may possibly interfere with a good setting. Replace damaged or worn parts as necessary.



Every carburetor adjustment will be slightly different. Tolerance variations in each carburetor, engine wear, altitude, and climatic conditions all affect the setting technique.

To obtain the best possible carburetor setting, follow this procedure:

1. Turn the idle adjustment needle and main adjustment needle

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clockwise until they seat.

CAUTION

Seat the needles carefully to avoid jamming them in their respective seats in the carburetor body and causing damage beyond repair.

2. Open (turn counter-clockwise) the idle adjustment and main adjustment needles one full turn.

3. Turn the idle speed regulating screw clockwise one full turn past the point at which it touches the throttle lever.

4. Start the engine and allow it to reach an operating temperature. DON'T OPERATE ENGINE AT FULL THROTTLE DURING THIS TIME.

5. Slowly turn the idle speed regulating screw counter-clockwise until the chain stops turning.

6. Carefully adjust the idle adjustment needle until the engine runs evenly and smoothly. In most cases, the adjustment here will be made by turning the needle clockwise. However, with some carburetors, it may be necessary to turn the needle counter-clockwise.

7. After setting of the idle adjustment needle, the engine speed may increase or decrease. If the engine speed changes, readjust the idle speed regulating screw again to compensate for this change.

8. Squeeze the throttle to accelerate engine and then release. If the engine falters, or does not accelerate rapidly, turn the idle adjustment needle counter-clockwise slowly until correct acceleration is obtained. If necessary, readjust the idle speed regulating screw again to compensate for change in setting the idle adjustment needle.

9. With the engine operating under a cutting load, slowly adjust the main adjustment needle until the engine runs smoothly at cutting speed.

CAUTION

Final adjustment of the main adjustment needle should only be made with the engine running under load. Adjustment under no-load will result in a lean fuel mixture and cause overheating when the engine is later placed under load.