Fuel Needle Valve and Seat

If any wear can be detected on the valve face, the needle valve and seat assembly should be replaced. The float assembly, its axle, and the fuel valve are responsible for maintaining a stable and correct fuel level; all parts must be maintained in good condition. Only slight bending of the float lever should be necessary to secure the correct float height. The float lever stop where used, should be adjusted to control float drop. Proper setting of float drop prevents the float from striking and wearing on the bottom of the bowl when operating over rough terrain.

Adjusting Screw and Seat

The idle adjusting needle point must be smooth and free from grooves, caused by being closed forcibly against its seat. Where this condition is found, a new screw should be used.

Venturi and Jets

Inspect the venturi, jets and other calibrated openings for possible damage from improper probing in previous cleaning operations. Use the carburetor identifying part number to be found stamped on a metal disc riveted to the throttle body when selecting replacement parts. Make sure you are using the parts catalog for the tractor and engine involved and that parts selected are from list headed with the carburetor identifying parts number. Failure to take this precaution when renewing parts could result in a carburetor completely out of calibration and an operation lacking power or economy.

ASSEMBLY AND ADJUSTMENT

Upon reassembly of the carburetor, be sure all new gaskets and seals are used throughout and are properly installed to insure gas tight connections. Use care when assembling fuel bowl to throttle body to prevent damage to the float assembly or the idle jet tube.

When replacing the idle adjusting screw, turn it down carefully until lightly seated. Then back it up to approximately one turn open. Forcible seating of the screw will result in damage to the tapered face of the screw and to its seat. The throttle stop screw should be set to hold the throttle plate slightly open. These settings of the idle screw and the throttle stop screw serve only as a starting point for idle adjustment.

Adjustment of the carburetor should not be attempted until the engine has reached normal operating temperature. Then adjust throttle stop screw for the specified low idle speed and set the idle adjusting screw for smoothest engine operation. Advance the engine speed control lever for a few seconds and again idle engine, rechecking the idle adjustments for specified low idle speed and smoothest operation.