

## HS-151A CARBURETOR ADJUSTMENT INSTRUCTIONS

Your new chain saw contains an HS-151A diaphragm carburetor. The HS-151A carburetor is now also being supplied as a replacement for the HS-103 series formerly used on the "900 series" chain saws.

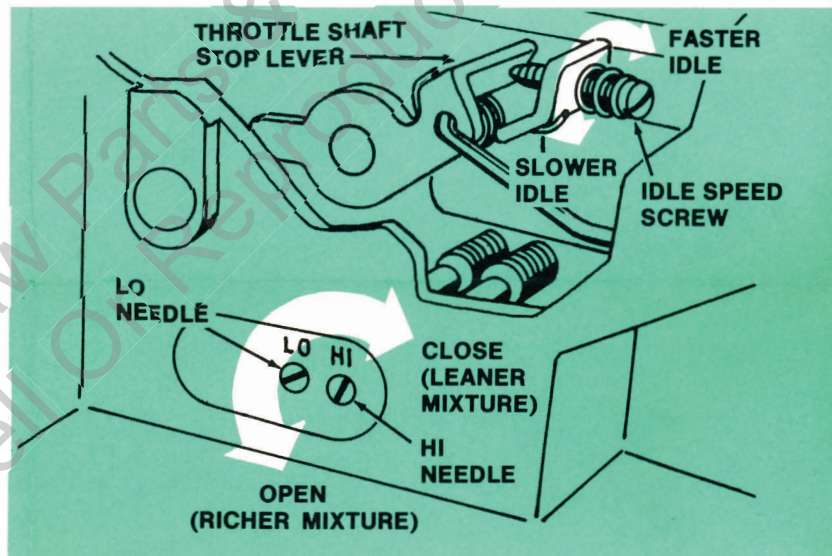
**NOTE:** For Model HS-151A carburetor adjustments, use these instructions in place of those in your chain saw owner's manual.

This carburetor contains a governor valve to prevent overspeeding of the engine. Proper idling is achieved by adjusting the IDLE SPEED SCREW for speed and the LO NEEDLE for the correct mixture. The HI NEEDLE was preset at the factory and normally requires no adjustment because the fuel for high speed operation is metered automatically by the carburetor.

Before any carburetor adjustments are made, the engine should be run for several minutes to bring it to operating temperature. The air filter should be clean.

### ADJUSTMENT OF THE IDLE:

1. Slowly turn the LO NEEDLE to the right (clockwise) until it closes gently against its seat. (DO NOT FORCE NEEDLE INTO SEAT OR CARBURETOR MAY BE DAMAGED.)
2. Back the LO NEEDLE out 1½ turns to the left (counterclockwise).
3. Remove the air filter cover and the air filter. Back the IDLE SPEED SCREW out until it no longer contacts the Throttle Shaft Stop Lever, then turn it back to the right (clockwise) until it just touches the Throttle Shaft Stop Lever without moving it. Now turn it to the right, an additional 3/4 turn more. Restart and idle engine. If it stalls, turn the IDLE SPEED SCREW 1/2 turn at a time to the right (clockwise) to increase the idle speed, and each time idle the saw until it does not stall.
4. Leaving the IDLE SPEED SCREW set as in step 3, turn the LO NEEDLE slowly to the right (clockwise) and note the position where the idle speed drops off. Then turn the LO NEEDLE to the left (counterclockwise) and note where the speed again drops off. Set the LO NEEDLE halfway between these two positions.
5. Readjust the IDLE SPEED SCREW by turning it to the right (clockwise) until the chain begins to rotate; and then turn it to the left (counterclockwise) until the chain stops rotating.
6. Reinstall air filter and cover.



### TRIMMING FOR HIGH SPEED PERFORMANCE: (not normally required)

1. Idle the engine and turn the HI NEEDLE to the right (clockwise) until it closes gently against its seat (do not force needle into the seat). Then turn the HI NEEDLE one turn to the left (counterclockwise).
2. Turn the HI NEEDLE slowly to the right (clockwise)—1/8 turn at a time—to lean the mixture to where the engine runs the fastest and has the most power at wide open throttle. You may very well find that maximum power occurs with the HI NEEDLE almost closed or completely closed, because the carburetor is designed to meter the fuel for high speed operation automatically.