

TO RE-SET THE CARBURETOR

- 1) Start engine, and allow it to idle. If engine doesn't start, set adjustment screws to normal settings and re-attempt.
- 2) Adjust idle screw so that engine idles between 1800 to 2000 RPM.
- 3) Set the low speed setting as low as possible with no hesitation upon acceleration. Turn needle clockwise (leaner) until engine begins to hesitate, then turn needle counterclockwise (richer) until hesitation is eliminated. That point is the setting.
- 4) Set the high-speed setting for best power. At full throttle turn the high-speed needle clockwise (leaner) until engine speed drops off. Then turn needle counterclockwise (richer) until the engine "bubbles" (4 cycles). The best setting is usually midway between these two points.

For best performance at various altitudes and in different climates, the high and low speed adjustment screw settings may require fine adjustments. HIGH SPEED adjustments should be checked under full load. In some applications the adjustment screws on the carburetor may not be easily accessible when the engine is running. In these instances stop the engine, adjust needles with 1/16 turns, restart and check performance.

ENCLOSED OR COWLED ENGINES

Be sure air outlet is sufficient (usually three times the inlet area). On an inverted cowling, input would be a slot 3 1/2" x 2" in the fin area and should be unimpeded. Test-run engine with cowl off and determine RPM, then re-install cowl and re-check. Try leaner settings by making 1/16 -1/8 turns, and noting changes, (improvements). Once set, carb should seldom require new "lean" adjustments.

MAINTENANCE

NEVER modify flywheel. After removal re-tighten to 145-155 in./lbs.

NEVER modify prop hub. After removal re-tighten to 145-155 in./lbs.

Do NOT tear down an engine that has been run unless absolutely necessary. Engines run best after developing normal wear patterns and new ones will have to develop, (while old ones remain), thus reducing performance and engine life. Do not reuse bearings and seals once they have been removed from crankcase.

Cylinder block mounting screws should be checked for tightness periodically. Proper torque is 65-75 in./ lbs.

- Periodically check all screws and fasteners for tightness.
- Fins should be kept clean. Accumulated reduces cooling and reduces both performance and reliability.

MAINTENANCE OF THE STARTER

One-way bearing should be lightly oiled with 30 weight oil every 15 to 20 hours and/or prior to storing engine for any length of time.

The spring and sleeve should be lubricated periodically, and checked for signs of excessive wear.

Periodically check tightness of mounting screws.

ACCESSORIES

Your dealer has a line of optional accessories available for your engine. Ask about prop hubs, mounts and other extras all built to the same exacting standards as your engine.

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