HOW TO SECURE SERVICE

Mr. Salesman or Mr. Dealer: Please fill out this warranty form to insure that your customer will receive warranty service if needed.

Mr. Customer: Please retain this warranty form along with your Engine Operation and Maintenance Manual. Should warranty service be required, present this completed warranty form to your Authorized Clinton Service Center along with the Engine.

Important. Please READ the Operation & Maintenance Instructions prior to starting the Engine.

Owner's Name _____ City _____ State _____

Street Address or R. F. D. No. _____ County _____

Engine Model No. (Copy No. from engine name plate) _____ Engine Serial No. _____

Date Purchased _____ Purchased From _____

City _____ County _____ State _____

WARRANTY PROCEDURE

Should warranty be required:

1. Do not attempt to disassemble or repair engine or have repairs made other than by an Authorized Clinton Servicing Account.
2. Show the Authorized Clinton Service Account this warranty registration form.
3. Fill out warranty claim completely with Service Account, and sign.
4. If a Clinton Service Account is in doubt whether the repairs necessary are warranty, he is within his rights to charge for the repairs and fill out a warranty claim for refund which is submitted to his source of supply and is then subject to the source of supply or factory inspection, review, and decision.

Clinton OWNER'S GUIDE Clinton

HIGH PERFORMANCE TWO CYCLE

Important. Do not start engine prior to reading "Preparation of Engine for Operation", and Clinton's Warranty Policy below.

You have purchased a Clinton-built Engine, world famous for quality and performance. This Engine is manufactured by Clinton Engines Corporation, builder of the most complete line of Air - Cooled Engines in the world. The Clinton Engines Corporation "Arrowhead" trademark is your guarantee of top performance and long service life. This Engine carries the following warranty.

ENGINE WARRANTY

THIS WARRANTY SUPERSEDES AND DELETES ALL PREVIOUS WARRANTY WRITTEN, EXPRESSED OR IMPLIED. CLINTON ENGINES SHALL IN NO WAY BE LIABLE FOR CONSEQUENTIAL DAMAGE.

ALL CLINTON PRODUCTS ARE WARRANTED. CLINTON ENGINES CORPORATION WILL REPLACE TO THE ORIGINAL OWNER "FREE OF CHARGE" ANY PART OR PARTS SHOWN ON EXAMINATION BY A CLINTON AUTHORIZED SERVICE ACCOUNT OR CLINTON FACTORY TO BE DEFECTIVE IN MATERIAL AND/OR WORKMANSHIP. THE WARRANTY WILL APPLY AND BECOMES EFFECTIVE FROM DATE OF PURCHASE. ALL TRANSPORTATION CHARGES ON PARTS OR ASSEMBLIES SUBMITTED FOR REPLACEMENT UNDER THIS WARRANTY MUST BE BORNE BY THE PURCHASER.

1. Engines—(Governed)—One Year

2. Engines—(Non-Governed)—45 Days

CLINTON ENGINES CORPORATION

Warranty does not cover normal wear, bent crankshafts, failure to properly maintain oil in crankcase, user negligence or abuse.

Clinton Engines Corporation appreciates the opportunity to be of service to you. For service refer to the yellow pages of your telephone directory under Engines, Gasoline.

CLINTON ENGINES CORPORATION • MAQUOKETA, IOWA

Reliable service at 12,000 Clinton Service Centers

Form 137-481

Printed in U. S. A.

HIGH PERFORMANCE TWO-CYCLE ENGINES

OPERATION AND MAINTENANCE

Preparation of Engine for Operation

1. Fuel - Oil Ratio.
   500 & 501 Series mix 3/4 pint of oil per one gallon of gasoline. E65 Series mix 3/4 pint of oil per one gallon of gasoline for break-in period (five hours); after break-in period, mix 1/2 pint of oil per one gallon of gasoline. Use SAE 30 W oil MM - MS or outboard motor oil and regular gasoline. Mix and store fuel in a clean fuel container. Low grade white, premium or ethyl grades of gasoline are not recommended. White marine gasoline is acceptable. On other engine series not listed above, refer to name plate for fuel oil ratio recommendation.

Engine Operation

1. Move (a) shorting clip away from spark plug or move (g) toggle switch to on position.
2. Open (b) fuel shut off valve and fuel cap air vent if engine is so equipped.
3. Move (d) choke lever to choke position and (c) speed control lever to run position. NOTE: On chainsaw powerheads the speed control lever will be different than illustrated.
4. Crank engine by pulling starter rope with a quick firm pull. Do not pull recoil rope out so far that rope stops with a jerk as this will cause rope failure. Do not allow rope and handle to snap back into place.
5. Use choke as necessary to keep engine operating during warm-up period.
6. To stop engine, move shorting clip against spark plug terminal or move toggle switch to off position.

Carburetor Readjustment

(Float Carburetors H)

1. Turn (j) power adjustment screw (cw) until closed. Then open (ccw) at least 1-1/2 turns from closed position.
2. Turn (i) idle adjustment screw (cw) until closed then open (ccw) at least 1-3/4 turns from closed position.
3. Start engine and allow a short period of time for warm-up.
4. To adjust (j) power adjustment screw, move (c) speed control lever to fast position, then turn power adjustment screw (cw) until engine misfires. Then rotate power adjustment screw (ccw) until engine sound smooths out. If power needle is open too far, engine exhaust will be heavy and dull and engine may again misfire.
5. To adjust (i) idle adjustment screw move speed control lever to slow position and adjust (l) throttle stop screw to keep engine operating at low speed. Turn idle adjustment screw (cw) very slowly and continue closing as long as engine sound improves and speed increases. Idle stop screw (l) will usually require a change to set minimum speed required.
6. Readjust power screw as listed in No. 4 above, then open power screw approximately 1/8 to 1/4 turn so engine will develop full power under load.
7. Check progression from idle to high speed by moving throttle lever. Engine sound and speed should be smooth at varying speeds. If engine speed variation is noted at speeds above idle, open idle adjustment screw (ccw) slightly.

(Diaphragm Carburetors M)

1. From closed position open (i) idle adjustment screw 3/4 turn.
2. From closed position open (j) power adjustment screw 1/2 turn.
3. Follow steps 3 thru 7 as listed under "Float Carburetor Readjustment".

Maintenance

1. Keep air cleaner clean. Check cleaner prior to each operation and during operation. When air cleaner becomes filled with dirt a new air cleaner element is recommended.

In an emergency the (e) polyurethane air cleaner element can be cleaned in soap and water, gasoline, kerosene, or other solvent and then soak in 30 weight oil. Squeeze out excess oil and re-install. New elements are treated with a special chemical at the factory for maximum efficiency and engine protection.

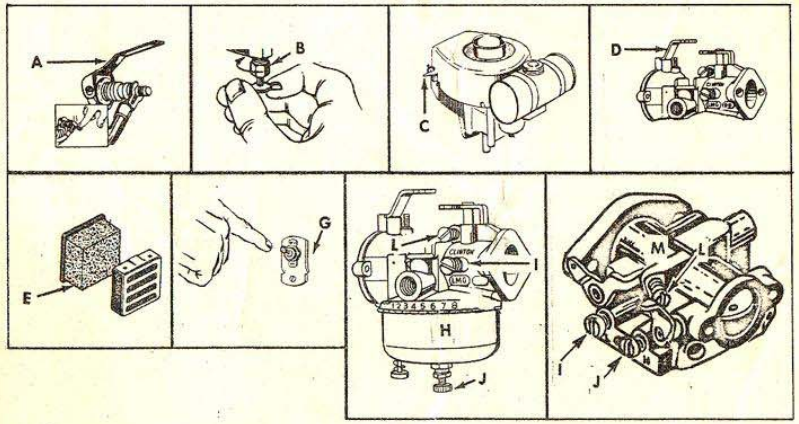
2. Keep engine and equipment clean. Check cooling fins and air intake prior to each operation. Keep foreign material from blocking air intake while in operation.
3. Replace governor spring if damaged or stretched. Secure replacement parts from Clinton Authorized Service Accounts only; he will be happy to extend his service facilities to you.
4. If fuel cap has adjustable air vent valve, always close valve when engine is not in operation.

Storage

1. Drain fuel from tank and run carburetor dry.
2. Remove spark plug. Spray approximately a teaspoon of oil inside cylinder and replace spark plug.
3. Store in a dry protected place. Do not stack objects on engine as damage may occur.

Removal From Storage

1. Follow procedure as outlined for "Preparation of Engine For Operation".
2. Use a fresh fuel mixture as old mixture may clog fuel passages in carburetor.
3. Remove spark plug and crank engine several times to remove any remaining oil from cylinder and replace spark plug.



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