For Green Machine Parts <u>Call</u> <u>60</u>6-678-9623 <u>or</u> 606<u>-5</u>61-4983

GreenMachine

OWNER'S MANUAL

MODEL 3000j UT26034-B

MODEL 3000b UT26035-A

 SERIAL NO.					
			1		

IMPORTANT NOTE: USE THE ABOVE BOX TO FILL IN YOUR MODEL'S SERIAL NUMBER FOR YOUR RECORDS.

ASSEMBLY AND OPERATING INSTRUCTIONS

GREEN MACHINE® - LIMITED WARRANTY

The manufacturer warrants to the original retail purchaser that this Product is free from defects in material and workmanship and agrees to repair or replace, at Manufacturer's discretion, any defective product free of charge within these time periods from the date of purchase:

- Two years, if the Product is used for personal, family, or household use;
- One year, if the Product is used for commercial or any other use.

This warranty is not transferable and does not cover damage resulting from defects other than in material or workmanship, or damage caused by unreasonable use, including the failure to provide reasonable and necessary maintenance. Also, the warranty obligations do not apply to conditions resulting from misuse, alteration or accident. In addition, this warranty does not cover general check-ups on electrical equipment, tune-ups on gasoline engines, or replacement of non-defective parts (such as electrical brushes, cables, plugs, spark plug, filters, starter ropes, etc.) that may wear and need to be replaced with reasonable use within the warranty period or which may require replacement in connection with normal maintenance. This warranty applies only to products sold within the United States of America, the District of Columbia, Canada, Mexico, the Commonwealth of Puerto Rico, the Virgin Islands, Guam, the Canal Zone, or American Samoa.

SAVE YOUR SALES SLIP

Proof of purchase in the form of your dated sales receipt, cash register slip, etc. showing the serial number and the model of your Product will be required before our dealers can perform warranty service on the Product. You must at your own expense, arrange to deliver or ship the Product for warranty repairs and arrange for pickup or return of the Product after repairs have been made.

This warranty does not apply to any trade accessory, engine, or electric motor which is separately warranted by another manufacturer and not manufactured by the manufacturer.

THIS LIMITED WARRANTY IS IN LIEU OF ALL OTHER EXPRESS WARRANTIES. ANY IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, MERCHANTABILITY OR OTHERWISE, APPLICABLE TO THIS PRODUCT, SHALL BE LIMITED IN DURATION TO THE DURATION OF THIS LIMITED WARRANTY. THE MANUFACTURER SHALL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES.

SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU. ALSO, SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

HOW TO OBTAIN WARRANTY SERVICE

Warranty service can be obtained from a Green Machine® dealer authorized to make warranty repairs. If you need warranty service, check first with the dealer from whom you purchased the Product. FOR WARRANTY SERVICE INFORMATION OUTSIDE THE USA AND CANADA, PLEASE CONTACT YOUR LOCAL GREEN MACHINE® DEALER.

The manufacturer will not make any reimbursements for warranty service, except to Green Machine® dealers authorized to make warranty repairs. You must present your sales receipt when making any claim for warranty service.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. This warranty is given by Homelite, Inc. Post Office Box 7047, Charlotte, North Carolina 28241.



P.O. Box 7047 14401 Carowinds Blvd. Charlotte, N.C. 28241

P/N 19612-B

We are pleased that you have chosen a Green Machine® product to assist you with your work. Your Green Machine® product was assembled using the latest manufacturing methods and materials to bring you a product of the highest quality.

This Owner's Manual is provided to aid you in the proper assembly and the safe, reliable operation of your new Green Machine® product. Read it and become thoroughly familiar with the proper operating procedures before you first use this product. Make sure anyone who operates your Green Machine® product is fully acquainted with the proper operating procedures. Careful assembly, safe operation and proper maintenance in accordance with this Owner's Manual will provide you with maximum performance and product life.



Indicates Warning, Danger, and Caution.



Read all Safety, Operating and Maintenance Instructions.



Wear eye and hearing protection when operating this equipment.



Keep all bystanders at least 50 feet (15m) away.



Danger of Ricochet



Warning: READ THE OWNER'S MANUAL BEFORE USING THIS PRODUCT. FOLLOW ALL INSTRUCTIONS FOR SAFE OPERATION.

SAFETY INSTRUCTIONS

SAVE THESE INSTRUCTIONS!

OPERATION

- Use this unit for cutting recommended material only. Do not use for any other purpose.
- Never start or run the engine inside a closed area, breathing exhaust fumes can kill.
- CLEAR THE WORK AREA BEFORE EACH USE. REMOVE ALL OBJECTS SUCH AS ROCKS, BROKEN GLASS, NAILS, WIRE, OR STRING WHICH CAN BE THROWN OR BECOME ENTANGLED IN THE STRING HEAD OR BLADE.
- Be sure the cutting attachment is properly installed and securely fastened. Failure to use the proper parts can cause the
 cutting attachment to fly off and seriously injure the operator and/or bystanders.
- Exposure to vibrations through prolonged use of gasoline powered hand tools could cause blood vessel or nerve damage in the fingers, hands, and wrists of people prone to circulation disorders, or abnormal swellings. Prolonged use in cold weather has been linked to blood vessel damage in otherwise healthy people. If symptoms occur such as numbness, pain, loss of strength, change in skin color or texture, or loss of feeling in the fingers, hands, or wrists, discontinue the use of this tool and seek medical attention.
- FOLLOW THESE INSTRUCTIONS TO REDUCE THE RISK OF INJURY:
 - WEAR FULL EYE AND HEARING PROTECTION WHILE OPERATING THIS TRIMMER.
 - Wear heavy long pants, shoes and gloves.
 - Keep all bystanders, children and pets at least 50 feet away.
 - Do not wear loose clothing or jewelry.
 - Secure long hair so it is above the shoulder.
 - Do not operate this product when you are tired, ill or under the influence of alcohol, drugs or medication.
 - Do not operate in poor lighting.
 - · Keep firm footing and balance. Do not overreach.
 - Keep all parts of your body away from the string head and hot surfaces.
 - Keep cutting attachment below waist level.
- ALWAYS STOP ENGINE AND REMOVE SPARK PLUG WIRE BEFORE MAKING ANY ADJUSTMENTS OR REPAIRS EXCEPT CARBURETOR ADJUSTMENTS.

MAINTENANCE

- Use only GREEN MACHINE® replacement parts. Failure to do so may cause poor performance and possible injury.
- Inspect unit before each use for loose fasteners, fuel leaks, etc. Replace damaged parts. Replace string head if it is cracked, chipped, or damaged in any way. Be sure the string head is properly installed and securely fastened. Failure to do so can cause serious injury.
- Make sure all deflectors and handles are properly and securely attached.
- Use only monofilament string in the string head.
- 2 ©1996, Homelite, Inc.

- The cutting head will spin during carburetor adjustments. Wear protective equipment and observe all safety instructions.
- · Before storing, allow the engine to cool.
- Empty the fuel tank and restrain the unit from moving before transporting in a vehicle.

REFUELING (DO NOT SMOKE!)

- Mix and store fuel in a container approved for gasoline.
- Mix fuel outdoors where there are no sparks or flames.
- Select bare ground, stop engine and allow to cool before refueling.
- Loosen fuel cap slowly to release pressure and to keep fuel from escaping around the cap.
- Wipe spilled fuel from the unit. Move 10 feet away from refueling site before starting engine.

BLADE SAFETY

- Before each use, check to be sure that the blade is firmly attached. Be sure throttle returns to the neutral position when released and that the blade does not rotate at idle.
- A coasting blade can injure while it continues to spin after the engine is stopped or throttle trigger is released. Hold the
 coasting blade in heavy grass or brush until it stops.
- The front handle must be mounted properly. The front handle will assist in keeping the cutting attachment away from the operator.
- Exercise extreme caution when using the blade with this unit. BLADE THRUST is the reaction that may occur when the spinning blade contacts anything it cannot cut. This contact may cause the blade to stop for an instant, and suddenly "thrust" the unit away from the object that was hit. This reaction can be violent enough to cause the operator to lose control of the unit. Blade Thrust can occur without warning if the blade snags, stalls, or binds. This is more likely to occur in areas where it is difficult to see the material being cut.

In order to control the unit when Blade Thrust occurs:

- · Maintain a good comfortable stance and balanced position.
- Always hold the handles firmly with both hands.
- Approach material to be cut from right to left so that the unit will be pulled towards the cut instead of pushed toward the
 operator.
- Always cut at full throttle. Blade has maximum cutting power and is less likely to stall or bind.
- · Keep hands, feet, and unit in proper position.
- Cut only material recommended. Avoid letting blade contact material it cannot cut, such as stumps, rocks, metal, etc.
- · Always use the shoulder harness when operating the unit.

SAFETY PRECAUTIONS FOR XRT BLADE

- Wear gloves whenever you handle the blade.
- Visually inspect the blade for possible damage before installing or operating.
- To avoid serious injury to others or yourself, do not use blade if cracked, nicked, bent, distorted or damaged in any way.
- Always use replacement blades specified by GREEN MACHINE.
- Always check blade retention before use. Make sure the blade is mounted properly and secure.
- Run brushcutter with blade guard in place to test the mounted blade prior to any cutting.
- · Use all required parts to install the blade.
- Use a sharp blade. Dull blade is more likely to snag and kickback.
- The whirling blade could cause debris, wire, stones, or other loose items to become flying projectiles which could cause serious or permanent injury. Therefore, do the following to reduce the risk of injury:
 - (1) Wear full eye protection, while you operate this unit, at all times.
 - (2) Keep all bystanders, children and pets at least 50 ft. (15m) away from the cutting area.
- Wear proper safety equipment: Safety goggles, safety footwear, snug fitting clothing, hearing and head protection.
- · Always hold brush cutter with both hands when operating. Use a firm grip on both handles.

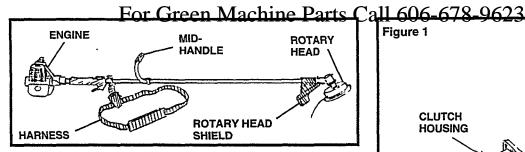


Figure 1 CLUTCH HOUSING MOUNTING BOLTS WRENCH

3000j STRINGTRIMMER/BRUSHCUTTER

The Model 3000j Commercial StringTrimmer/Brushcutter is a continuation of Green Machine® quality product line. Green Machine® 3000 series has set the standard for the string trimmer industry

1. ASSEMBLY

Mounting Engine to the Drive shaft

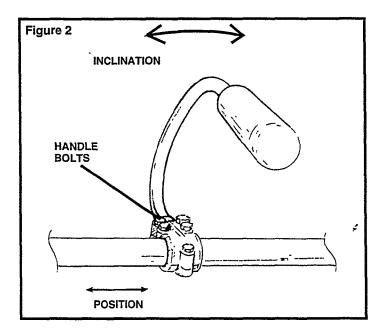
- Using the four (4) bolts supplied, mount the engine to the clutch housing as shown (Figure 1).
- With wrench supplied, tighten all four (4) bolts evenly and securely (Figure 1).

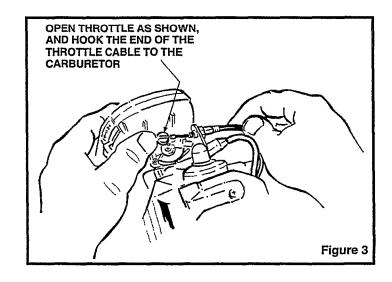
2. INSTALLING MID-HANDLE (Figure 2)

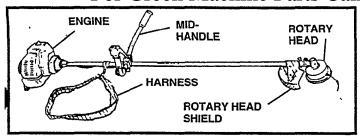
- Loosen the five (5) bolts on the handle bracket mounted on the drive shaft tube (Do not remove screws completely).
- · Install the mid-handle with the grip up.
- After installing the mid-handle in its bracket, retighten the five (5) bolts softly.
- Adjust the inclination and position of the handle and tighten the bolts firmly (Figure 2).

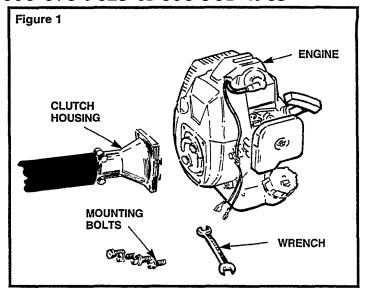
3. INSTALLING THROTTLE CABLE (Figure 3)

- Open throttle as shown, and hook the end of the throttle cable to the carburetor. Carburetor lever attachment has a round hole to accept and capture cable end.
- Connect switch wires to engine wires on right side of engine next to the carburetor.









3000b STRINGTRIMMER/BRUSHCUTTER

The Model 3000b Commercial StringTrimmer/Brushcutter is a continuation of Green Machine® quality product line. Green Machine® 3000 series has set the standard for the string trimmer industry

1. ASSEMBLY

Mounting Engine to the Drive shaft

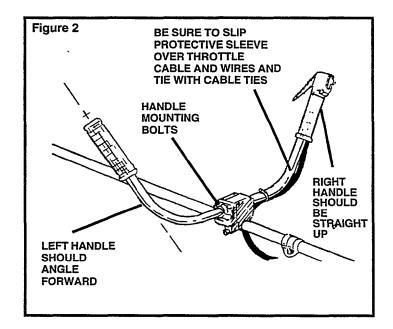
- Using the four (4) bolts supplied, mount the engine to the clutch housing as shown (Figure 1).
- With wrench supplied, tighten all four (4) bolts evenly and securely (Figure 1).

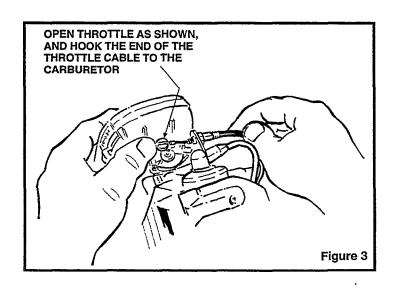
2. INSTALLING MID-HANDLE (Figure 2)

- Loosen the four bolts on the handle clamp and slip handle ends into clamp so the ends meet in the middle.
 Note: Right side handle has throttle and stop switch assembly mounted on it (Figure 2).
- Adjust handles for operator control and comfort and tighten the four (4) clamp bolts evenly and securely.
- Note: Mid-Handle bracket position is pre-set at the factory. It may be repositioned for best balance and comfort.

3. INSTALLING THROTTLE CABLE (Figure 3)

- Open throttle as shown, and hook the end of the throttle cable to the carburetor. Carburetor lever attachment has a round hole to accept and capture cable end.
- Connect switch wires to engine wires on right side of engine next to the carburetor.





4. ASSEMBLY

 Using the tools shown in Figure 4, remove the bolt (left hand thread), star washer, and flat washer at the bottom of the gearcase.

Note: Save bolt washers as they are needed when using brush or saw blades.

- While holding the lower flange washer with the large spanner wrench, thread the rotary head onto gearcase as shown in Figure 5. Tighten the rotary head as tight as possible by hand.
- Install the blade guard/head shield using the hardware supplied (Figure 6).



WARNING: Never operate without blade guard/head shield in place and keep bystanders at least 50 ft. away.

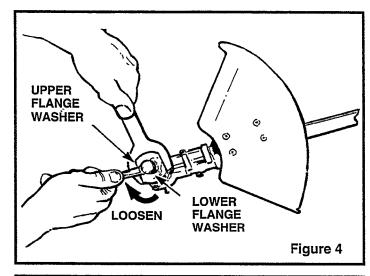
TO INSTALL METAL CUTTING BLADES:

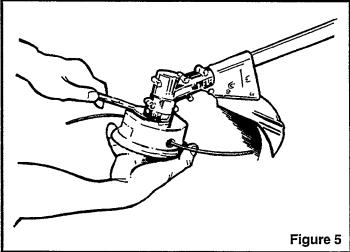
Remove bolt (LH), star washer and small flat washer at the bottom of the gear case (**Figure 4**).

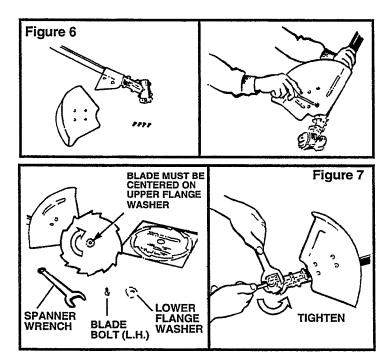
- Remove lower flange washer and place blade on upper flange washer making sure that arbor hole in blade is centered on the arbor embossment on upper flange washer.
- Install lower flange washer making sure that the splines line up and flange washer is completely seated.
- Re-install small flat washer, star washer, and bolt (Note: Bolt is left hand thread) and is turned counterclockwise to tighten (Figure 7).
- Special Note

Take special care when installing blades, as the cutting edge and/or points of the blade are very sharp. Make sure tools used are properly seated on their respective bolt or flange washer, and you have a firm grip on the tools.

 The blade rotation is clockwise (when viewing from below) so cutting edge of blades must face in that direction.







LIMIT BLADE SPEED

Brushcutters are designed to operate at high engine speeds.
 Under normal usage this XRT Blade performs at these speeds. Do Not put this blade on any unit that has been altered or will exceed 10,000 RPM.

DAILY INSPECTION

 Inspect the blade for wear or cracks and replace if visually detected.

OPERATING HAZARDS

- Do not operate the brushcutter unless the blade guard is in place and in good condition.
- The XRT blade is recommended for professional cutting and clearing.
- Always stop the engine before attempting to remove any obstruction caught or jammed in the blade.
- Do not attempt to touch or stop the blade when it is rotating.
- A coasting blade can cause injury while it continues to spin after the engine is stopped or throttle trigger released.
 Maintain proper control until the blade has completely stopped rotating.

HOW TO MAINTAIN CONTROL OF BRUSHCUTTER

- Always hold brushcutter with both hands when operating.
 Use a firm grip on both handles.
- Maintain your grip (and balance on both feet) and position yourself so that you will not be drawn off balance by the kickback reaction of the cutting blade.

BLADE SHARPENING (Figures 8 & 9)

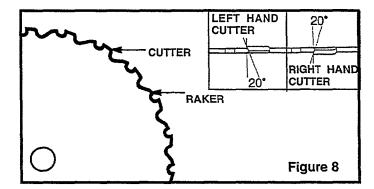
- Remove blade from unit and place in a holding vise.
- Use a 7/32 file and file holder (P/N A-92615).
- Hold file holder level at approximately 20° angle. Stroke only towards the front corner of the cutter. Lift file away from cutter on each return stroke.
- File all of the left hand cutters; remove blade from vise and flip over to file right hand cutters.
- Use a 7/32 file and file holder (P/N A-92615). After the cutters have been filed, check the rakers. Fit the depth gauge (P/N 04648) over the blade so that the raker is exposed through the slot.
- Use a 7/32 file and file holder (P/N A-92615). Using a 6" flat file (P/N D-92609-A), file flush across the slot. If metal is taken off of raker, file all rakers on the blade.

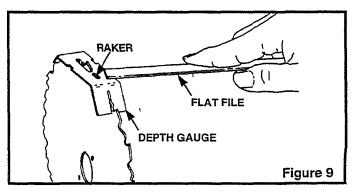


WARNING:

Blade use

- Extreme care must be taken when using brush or saw blades to insure safe operation.
- When the blades hit a hard object a serious sideward reaction could occur (See explanation of "BLADE THRUST" ON PAGE 3 under BLADE SAFETY).
- Never attempt blade work without first inspecting and clearing the area of unseen objects such as concrete, fencing, wire, wood, metal, etc.
- Never use blades near sidewalks, fencing, posts, buildings or other immovable objects.
- Use the metal cutting blades only for the cutting which is recommended.
- Never use a blade after hitting a hard object without first inspecting it for bent cutters and cracks. Do not use if either condition is found.
- Use only Green Machine blades.
- Always use shoulder harness whenever blades are used, No. DG-07819.
- Have a professional re-sharpen your blade.





For Green Machine Parts Call 606-678-9623 606-561-4983 5. SUPPLYING FUEL:

 Fill the fuel tank with fuel to ⁷/₈ full, using a mixed fuel of gasoline and 2 cycle air cooled engine oil.

REFUELING (DO NOT SMOKE!)

- Mix and store fuel in a container approved for gasoline.
- Mix fuel outdoors where there are no sparks or flames.
- Select bare found, stop engine, and allow to cool before refueling.
- · Loosen fuel cap slowly to release pressure and to keep fuel from escaping around the cap.
- Wipe spilled fuel from the unit. Move 10 feet away from refueling site before starting engine.
- Special Note: Never use gasohol, If gasohol is used, engine warranty will be voided. To test for alcohol content in gasoline, an inexpensive gasohol tester kit is available, order part # GM 27339.
- RECOMMENDED FUEL: THIS ENGINE IS CERTI-FIED TO OPERATE ON UNLEADED GASOLINE INTENDED FOR AUTOMOTIVE USE. Mix Green Machine 32:1 or Green Machine Premium Exact Mix oil with gasoline according to the instructions on the package. If Green Machine oil is not available, use a high quality 2-cycle engine oil mixed at 4 oz. per gallon. DO NOT USE AUTOMOTIVE OIL OR 2-CYCLE OUT-**BOARD OIL.**

Thoroughly mix the gasoline and 2-cycle oil before pouring the fuel mix into the engine's fuel tank.

The fuel tank may be under pressure. Remove the cap slowly to avoid spurting of fuel.

6. INSPECTION

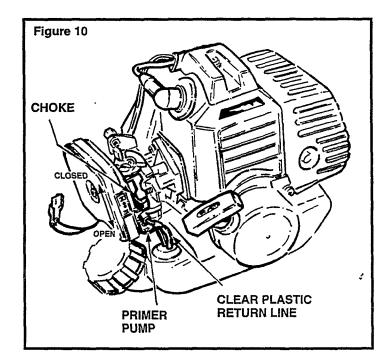
- · Always inspect all fasteners for tightness and/or mixing parts. Tighten or replace before use.
- Read and understand all safety and operating instructions before use.
- Check for any fuel leaks. If any, correct before use.
- Make sure all air passages are free of dirt, dust, or any other foreign material.
- Inspect air cleaner for cleanliness.

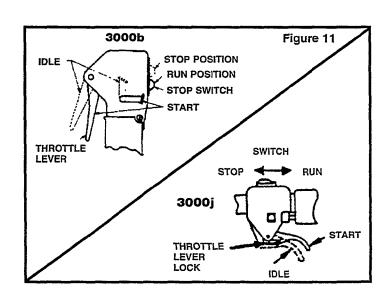
7. STARTING THE ENGINE, WHEN COLD (INITIAL EN-**GINE STARTING)**

- Slide stop switch (on top of trigger) to run position (towards engine).
- Push the primer pump until fuel flows through the clean plastic return line (Figure 10).
- Place choke lever in the closed position (Figure 10).
- · Lock throttle lever in the start position as shown in Figure 11.
- Pull starter rope slowly, until engine compression is felt (Figure 11). Pull the starter in short rapid strokes until engine starts.
- · Avoid pulling the rope to its full extension as starter failure could result.
- Once the engine has starter, slowly return the choke lever to its open position.

WARNING:

- 1. Never smoke when refueling, or refuel in an area with an open flame (such as a water heater pilot light).
- 2. Always stop engine and wait for it to cool before refueling.
- 3. Clean up any spills and dispose of clean-up mate-
- 4. After refueling, move to another area for starting.
- 5. Never over fill. Fill tank only 7/8 full to avoid spillage.





- Return the throttle lever to its idle position.
- Always allow the engine to run 1 to 2 minutes at idle for warm up before starting work.
- · Special Note:

Place the unit on the ground when starting. Do not use your foot, or knee to hold it down while pulling up on the rope (Figure 12). This will cause the tube and cable to become bent and then break. Never allow the starter rope to snap back.

WHEN WARM (RESTARTING ENGINE)

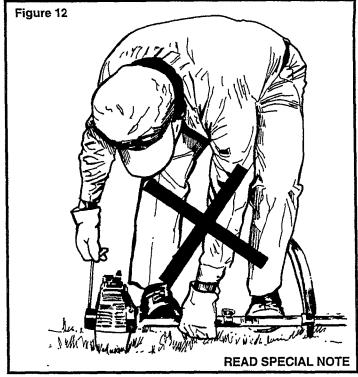
- · Hold throttle lever in the open position.
- · Place choke lever in its open position.
- Pull starter rope as outlined in "Starting When Cold".
- Note: If engine fails to start, push primer until fuel appears in clear plastic return line.

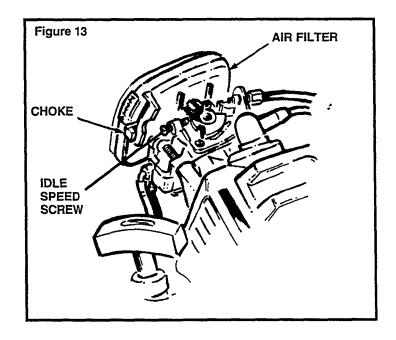
8. STOPPING ENGINE

- Return throttle lever to its idle position, and allow the engine to idle for a short period (approximately 30 seconds). This allows the engine to cool down.
- Push stop switch to "Stop" position (toward the cutting head). Be sure to return the stop switch to the run position before trying to start unit.
- Note: Except for emergencies, avoid stopping engine while it is running at high speed, this avoids overheating the engine.

9. ADJUSTING

- Your Green Machine® engine has been adjusted at the factory for optimum performance and fuel consumption, and no further adjustment should be required. However, because of varying atmospheric and climatic conditions, some minor adjustment may be needed for your area.
- Adjusting idle speed should always be done with a tachometer to insure proper idle speed (2,800 to 3,300 rpm). If a tachometer is not available, the idle speed may be adjusted as follows (Figure 13).
 - 1. Turn idle speed screw clockwise until cutting head or lower drive begins to move.
 - Turn idle speed screw counterclockwise until lower drive stops.
 - 3. Turn idle speed screw approximately 1/4 to 3/4" turn further counterclockwise.
- If the engine does not idle properly after this adjustment, contact your nearest Green Machine® dealer for service.
- Condition of the air cleaner is very important to the operation and life of the engine, and also has a major affect on carburetor adjustments. The air cleaner should be checked for cleanliness before each use, and before making any carburetor adjustments.





10. MAINTENANCE

Daily

- Carefully inspect complete unit for damaged, loose or missing parts. Correct before use.
- · Carefully inspect for any fuel leaks. Correct immediately.
- · Check air cleaner for cleanliness.
- Remove all dust, dirt, and grass from the entire unit after each use.

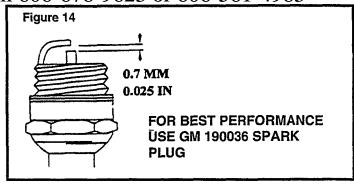
30-Hour Service, or Once a Week for Commercial Use.

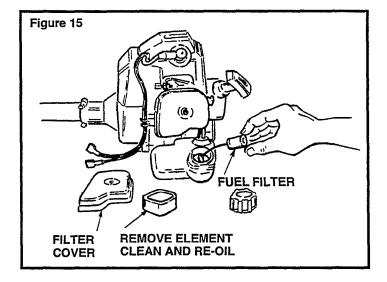
- · All items under daily service plus:
- Remove, clean, and regap spark plug (0.7mm/0.025 inches) (Figure 14).
- Clean and service air filter (after cleaning, put small amount of engine oil on sponge and squeeze out excess) (Figure 15).
- Check fuel filter in tank and clean if needed. (Figure 15).
- Remove cylinder cover and clean out all dust, dirt, and foreign material.



SAFETY

- Before each use always inspect your Green Machine[®] for loose, missing, damaged or broken parts. Correct before using.
- Always wear approved eye protection (safety goggles).
- Due to the danger of thrown objects and the danger of striking others with the string or blade, keep bystanders and pets away from the work area at all times.
- Do not wear loose fitting clothes while operating unit.
- Never operate unit while barefoot or wearing sandals.
- Never operate unit without shields or guards in place and in good working order.
- Use only genuine Green Machine® blades and rotary heads.
- Never use any type of wire in place of the nylon string.
- Never touch engine or muffler during operation, or immediately after shutdown.
- Never touch spark plug, ignition plug cap, or high tension wire while engine is running.
- Always make sure engine is securely mounted to drive shaft before each use.
- Always check for any fuel leaks before each use and correct before use.
- · Never operate unit indoors or in an enclosed area.
- Your Green Machine product is not a toy. Do not allow children to play with it or use it.





1. CUTTING TECHNIQUE:

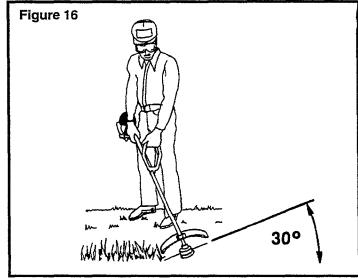
- Hold the unit so that the rotary head is at an approximately 30° angle to the ground (Figure 16).
- · Allow the very tip of the line to do the cutting.
- Always operate the unit with the correct line size (.080 dia.).
- Always use the correct line length (maximum 6.0, minimum 3.0 inches).
- Note: As the cutting line wears down, engine speed (RPM) will increase. Allowing the engine to run at high RPM (3 inch cutting or less) for a prolonged period will shorten engine life.
- When cutting with string, cut from left to right with the engine at full throttle, so that clippings will be thrown away from you (Figure 17).
- When cutting with metal blade, cut from right to left with the engine at full throttle, so that the unit will be pulled towards the cut instead of pushed toward the operator (Figure 17).

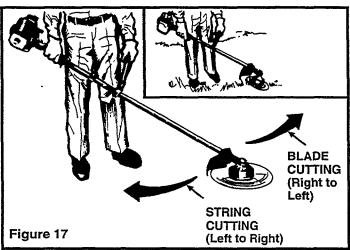
2. EXTENDING LINE:

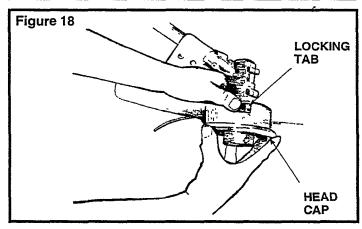
- As you perform your trimming tasks, the cutting line will wear shorter. It may be extended automatically with the engine running, or manually, with the engine stopped.
- Engine running: (At full speed) lightly tap (do not pound) the rotary head on the ground. Line will advance approximately ½ inch per tap.
- When tapping for line, it should be done on bare ground or a hard surface.
- Note: The cutting line will not extend automatically if the line is worn too short. You should extend the line before it is worn to 3 inch length.
- Engine Stopped: Line can be advanced manually, by turning the unit over so you are facing the bottom of the rotary head. While pulling outward on one of the cutting lines, push in on the spool. When the line stops, release the spool and continue pulling the line. Keep repeating this procedure until the desired amount of line is extended.
- Note: Never operate trimmer with more than six (6) inches of line extended outside the rotary head. Excessive line length can often be identified by low engine RPM when throttle lever is in the full throttle position.

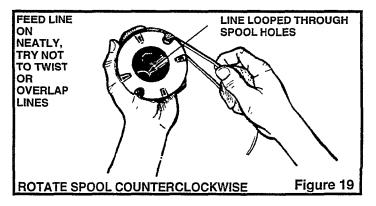
3. TO REPLENISH LINE SUPPLY:

- Push in one of the locking tabs, releasing it from its notch (Figure 18) and pull on the rotary head cap.
- Once both locking tabs have released, lift rotary head cap off and remove spool.
- Cut a length of cutting line that is .080 diameter and approximately 30 ft. long.
- Loop the line through holes in the spool and make certain that both lines are even (Figure 19).
- Hold the spool as shown (Figure 19) and feed line on neatly by rotating the spool counterclockwise.

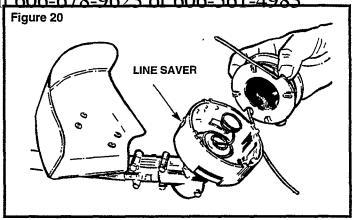


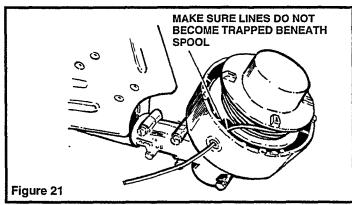


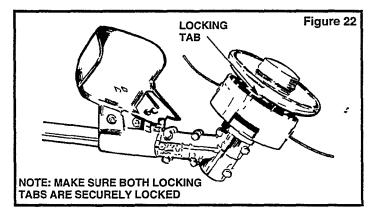




- Note: Do not wind line on, rotate the spool.
- Note: Clean all dirt, dust, and grass out of the rotary head, spool and head cap before reassembling.
- Once the line is on the spool, hold spool as shown (Figure 20) and insert lines in their respective linesavers and place spool back into the rotary head.
- Note: Be certain that lines do not become trapped under the spool (Figure 21).
- Re-install rotary head cap by aligning locking tabs with their notches and pushing cap down until both locking tabs are securely locked (Figure 22).
- Before operating the unit, check by advancing the line manually, making sure lines are not trapped, and rotary head is assembled correctly.

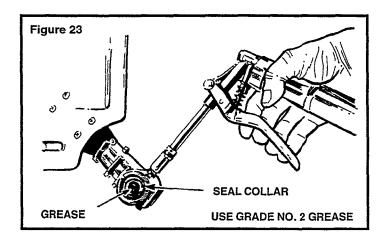






4. MAINTENANCE:

- Each 10 hours of use, the gearcase should be regreased by first removing the cutting head (or blade), blade holder, and seal collar (Figure 23).
- Supply new grease until old grease is forced out.
- The flex cable is lubricated during assembly at the factory and needs no scheduled maintenance. However, if it is removed, regrease and install exactly as it was removed. Do not reverse. Use grade no. 2 grease.



GREEN MACHINE™ TROUBLE SHOOTING CHART

FAILURE OF ENGINE TO START - NO SPARK 1. Failure located on the spark plug side	The electrode of spark plug is wet Carbon deposit sticks to the electrodes of spark plug Poor insulation caused by crack, etc. of insulator Undersize or oversize gap of the electrodes of spark plug Burning of the electrodes of spark plug	1. Dry it 2. Clean it 3. Replace spark plug 4. Adjust the gap to 0.6mm 5. Replace spark plug
2. Failure located on the magneto side	Coil burnout Coil poor insulation Cord coating breakage Unit burnout	Replace coil Replace coil Replace or repair cord Replace magneto
HAS SPARK 1. Proper compression and sufficient fuel	Engine flooded Use of improper fuel mixture	Remove spark plug and discharge outward with recoil starter Replace with proper fuel 32:1 mix
Sufficient supply of fuel but compression is poor	Heavy wear of cylinder, piston and piston ring Loose spark plug	Replace all worn parts Tighten
3. No supply of fuel to the carburetor	 Fuel tank is empty Loose fuel hose fitting or loose carburetor Filter clogging Fuel is available in the tank,, however, fuel does not reach the carburetor Air vent in the fuel tank clogging 	Refill the fuel tank Tighten fuel lines or carburetor Clean or replace filter Refer to the starting procedure Clean it
POWER IS NOT SUFFICIENT 1. Compression of engine is normal and there is no mis- firing	Air cleaner clogging The muffler is plugged with carbon Air leakage through the pipe fitting, etc. Fuel passage clogging Water is mixed in fuel	Clean Clean the muffler or replace Tighten the fitting securely Clean Replace with proper fuel
2. Overheating is observed	Excessive lean fuel mixture Use of improper mixed oil Carbon deposit Fan cover, cylinder fin, etc. are stuffed with dirt Forced operation	Adjust and clean carburetor Replace with 2-cycle 32:1 mix Clean Clean and remove dirt Operate properly
3. Knocking noise is heard	Cylinder overheat Use of improper fuel The combustion is covered with carbon deposits	Adjust carburetor, clean cylinder fin Replace with proper fuel: 25:1 mix Clean the combustion chamber
4. Air Suction	Loose carburetor Loose fuel pipe	Tighten Insert firmly
ENGINE RUNS BUT TOOL WILL NOT PERFORM	Lower tool nut fully engaged in coupler	Refer to owner's manual for proper assembly or see authorized service dealer for assistance
ENGINE STOPS WHILE IN OPERATION 1. Engine stops abruptly	Defective stop button Dislocation of plug cap The piston shows score surface with indication of seizure Short circuit of spark plug electrode due to carbon deposit Failure of proper functioning of magneto	Replace Fix firmly Repair or replace Clean Disassemble and replace necessary parts
2. Engine stops gradually	Empty fuel tank Inside carburetor clogging Fuel tank clogging Water is mixed in fuel	Refill Disassemble and clean Disassemble and clean breather Replace with proper fuel
ENGINE WILL NOT STOP WHEN TURNED OFF	The extreme end portion of spark plug is red-heated Broken stop button	Clean or replace spark plug and adjust the gap to 0.6mm Replace worn part
SHAFT VIBRATES	Cord is not in balance - both cords not of same length Cord is worn out Nylon cord head is bent Saw or Brush blade not centered on Holder A Grease or oil has gotten into clutch assembly (clutch housing) Lower gear case is out of grease	1. Equalize cord length at 6 inches 2. Same as #1 3. Replace arbor post 4. Re-center blade on holders 5. Clean clutch shoes and drum 6. Grease gear case - 30 operating
		hours

EMISSION CONTROL SYSTEM WARRANTY STATEMENT

(Owner's Defect Warranty Rights and Obligations)

In the interest of the environment, MHI engines that meet strict emission requirements are labeled. "This ULGE engine conforms to 1995-1996 California Emission Control Regulations".

California Emission Control Defects Warranty Statement

The California Air Resources Board and MHI are pleased to explain the emission control system warranty on your 1995 utility or lawn and garden equipment engine (ULGE). In California, new utility or lawn and garden equipment engines must be designed, built and equipped to meet the state's stringent anti-smog standards. MHI must warrant the emission control system on your engine for the periods of time listed below. Provided there has been no abuse, neglect or improper maintenance of your utility or lawn and garden equipment engine.

Your emission control system includes parts such as the carburetor, air cleaner, ignition system, muffler and catalytic converter. Also included may be connectors and other emission related assemblies.

Where a warrantable condition exists, MHI will repair your utility or lawn and garden equipment engine at no cost to you including diagnosis, parts and labor.

MITSUBISHI HEAVY INDUSTRIES, LTD. Emission Control Defects Warranty Coverage

The utility or lawn and garden equipment engines are warranted relative to emission control parts defects for a period of two years, subject to provisions set forth below. If any covered part on your engine is defective, the part will be repaired or replaced by MHI.

Owner's Warranty Responsibilities

As the utility or lawn and garden equipment owner, you are responsible for the performance of the required maintenance listed in your Owner's Manual. MHI recommends that you retain all your receipts covering maintenance on your utility or lawn and garden equipment engine, but MHI cannot deny warranty solely for the lack of receipts or for your failure to ensure the performance of all scheduled maintenance.

As the utility or lawn and garden equipment engine owner, you should however be aware that MHI may deny you warranty coverage if your utility or lawn and garden equipment engine or a part has failed due to abuse, neglect, improper maintenance or unproved modifications.

YOU ARE RESPONSIBLE FOR PRESENTING YOUR UTILITY OR LAWN AND GARDEN EQUIPMENT ENGINE TO AN AUTHORIZED SERVICE DEALER OR LAWN AND GARDEN EQUIPMENT MANUFACTURER TO WHOM MHI WOULD SELL ENGINES AS SOON AS A PROBLEM EXISTS. THE UNDISPUTED WARRANTY REPAIRS SHOULD BE COMPLETED IN A REASONABLE AMOUNT OF TIME, NOT TO EXCEED 30 DAYS. IF YOU HAVE ANY QUESTION REGARDING YOUR WARRANTY RIGHTS AND RESPONSIBILITIES, YOU SHOULD CONTACT GREEN MACHINE'S CUSTOMER REPRESENTATIVE AT 1-704-588-3200.

THE EMISSION WARRANTY IS A DEFECTS WARRANTY, DEFECTS ARE JUDGED ON NORMAL ENGINE PERFORMANCE. THE WARRANTY IS NOT RELATED TO AN IN-USE EMISSION TEST.

MITSUBISHI HEAVY INDUSTRIES, LTD. Emission Control Defects Warranty Provisions

The following are specific provisions relative to your Emission Control Defects Warranty Coverage. It is in addition to the MHI engine warranty for non-regulated engines found in the Owner's Manual.

1. WARRANTED PARTS

COVERAGE UNDER THIS WARRANTY EXTENDS ONLY TO THE PARTS LISTED BELOW (THE EMISSION CONTROL SYSTEMS PARTS) TO THE EXTENT THESE PARTS WERE PRESENT ON THE ENGINE PURCHASED.

FUEL METERING SYSTEMS

CARBURETOR AND INTERNAL PARTS

COLD START ENRICHMENT SYSTEM (SOFT CHOKE)

FUEL FILTER (UP UNTIL THE FIRST SCHEDULED CHANGE)

FUEL INLET HOSE

FUEL OUTLET HOSE

AIR INDUCTION SYSTEM

AIR FILTER (ELEMENT)

IGNITION SYSTEM

SPARK PLUG(S)

MAGNETO IGNITION SYSTEM

2. LENGTH OF COVERAGE

MHI WARRANTS TO THE INITIAL OWNER AND EACH SUBSEQUENT PURCHASER THAT THE WARRANTED PARTS SHALL BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP WHICH CAUSE THE FAILURE OF THE WARRANTED PART(S) FOR A PERIOD OF TWO YEARS FROM THE DATE THE ENGINE IS DELIVERED TO A RETAIL PURCHASER.

3. NO CHARGE

REPAIR OR REPLACEMENT OF ANY WARRANTED PART WILL BE PERFORMED AT NO CHARGE TO THE OWNER, INCLUDING DIAGNOSTIC LABOR WHICH LEADS TO THE DETERMINATION THAT A WARRANTED PART IS DEFECTIVE, IF THE DIAGNOSTIC WORK IS PERFORMED AT AN AUTHORIZED SERVICE DEALER OF LAWN AND GARDEN EQUIPMENT MANUFACTURER TO WHOM MHI WOULD SELL ENGINES.

4. CLAIMS AND COVERAGE EXCLUSIONS

WARRANTY CLAIMS SHALL BE FILLED IN ACCORDANCE WITH THE PROVISIONS OF THE MHI ENGINE WARRANTY POLICY. WARRANTY COVERAGE SHALL BE EXCLUDED FOR FAILURES OF WARRANTED PARTS WHICH ARE NOT ORIGINAL MHI PARTS OR BECAUSE OF ABUSE, NEGLECT OR IMPROPER MAINTENANCE AS SET FORTH IN THE MHI ENGINE WARRANTY POLICY. MHI IS NOT LIABLE TO COVER FAILURES OR WARRANTED PARTS CAUSED BY THE USE OF ADD-ON, NON-ORIGINAL, OR MODIFIED PARTS.

5. MAINTENANCE

ANY WARRANTED PART WHICH IS NOT SCHEDULED FOR REPLACEMENT AS REQUIRED MAINTENANCE OR WHICH IS SCHEDULED ONLY FOR REGULAR INSPECTION TO THE EFFECT OF "REPAIR OR REPLACE AS NECESSARY" SHALL BE WARRANTED AS TO DEFECTS FOR THE WARRANTY PERIOD. ANY WARRANTED PART WHICH IS SCHEDULED FOR REPLACEMENT AS REQUIRED MAINTENANCE SHALL BE WARRANTED AS TO DEFECTS ONLY FOR THE PERIOD OF TIME UP TO THE FIRST SCHEDULED REPLACEMENT FOR THAT PART. ANY REPLACEMENT PART THAT IS EQUIVALENT IN PERFORMANCE AND DURABILITY MAY BE USED IN THE PERFORMANCE OF ANY MAINTENANCE OR REPAIRS. THE OWNER IS RESPONSIBLE FOR THE PERFORMANCE OF ALL REQUIRED MAINTENANCE, AS DEFINED IN THE MHI OWNER'S MANUAL.

6. CONSEQUENTIAL COVERAGE

COVERAGE HEREUNDER SHALL EXTEND TO THE FAILURE OF ANY ENGINE COMPONENTS CAUSED BY THE FAILURE OF ANY WARRANTED PART STILL UNDER WARRANTY.

For Green Machine Parts Call 606-678-9623 or 606-561-4983				
NOTES				
·				
-				
1				

A WARNING A

The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

CALIFORNIA PROPOSITION 65

