

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

# ***The Green Machine***<sup>®</sup>

A product of HMC, Torrance, Ca 90502

## **ASSEMBLY AND OPERATING INSTRUCTIONS MODEL 2500 - 3000 - 3100**

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GM105 R-1/78

# For Green Machine Parts Call 606-678-9623 or

606-361-4989

The Green Machine®. Nothing less than a revolution in the grounds maintenance industry. Nothing but a simple and advanced device that allows gardeners, landscapers, contractors, agricultural users and many others to perform typical day-to-day tasks in a fraction of the time required when using out-dated tools. For professional users, it adds up to more money per job for the individual contractor, lower cost per job for the employer.

The Green Machine consists of a seven-foot-long extension rod, coupled to a gutsy 22.5 cc engine which drives the nylon weed-cutter at the opposite end of the rod. The entire unit is surprisingly light, only 13 lbs., for the power it packs – the special carburetion lets you handle the Green Machine with ease, and operate it in any position. All controls are right at your fingertips.

## Nylon Cutting Head

The heart of the Green Machine is the Weed Killer cutting head... no, not a chemical weed killer, but a nylon filament "knife" that cuts all weeds and grass down to size, in seconds.

Whirling over 5000 rpm, the Green Machine weed slasher leaves a trail of manicured turf, penetrating into crevices, nooks and crannies no other blade-type cutter could ever reach. With the Green Machine you'll spin around tree trunks, brick, stone and concrete barriers, walls, fences, and drive ways – with no damage to the structures. Tough, monofilament nylon thread does the job – not just efficiently, but safely. As the filament wears, a quick push of a button releases new lengths, so you're always prepared – it's the end of costly, routine sharpening... the beginning of turf trimming the way you always wished it to be!

And now – great news! – the Green Machine power head can be used to operate a variety of other money-making tools. Tree pruner. Brush cutter. Hedge trimmer. Combination auger and power drill. You can buy them as complete units or in any combination of power head and accessories.

## Steel Brush Blade

With this accessory blade – quickly interchangeable with the nylon cutting head – you'll skim through brush and tough ground cover. Vines with runner diameters up to 1/2" are zipped away with a quick, easy sweep of The Green Machine. And because the entire unit is so light in weight, you'll be able to tackle hillsides, sloping or terraced gardens – practically with no effort at all. In a day's time you can trim an acre or more of the toughest ground cover you have ever run across. The steel brush blade accessory, backed up by that rugged engine, just doesn't know when to quit.

## Saw/Tree Pruner

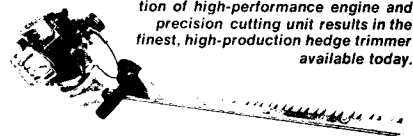
Here's the answer for those tree and bush trimming and thinning jobs that are backbreakers when you use a con-



ventional device like a chainsaw. The Green Machine's saw blade accessory – quickly interchangeable with the nylon cutting head – rips through saplings up to 2" in diameter – in seconds! Use this accessory directly overhead or in any position, eliminating the danger of using ladders and the unpredictable trouble you can get into with chainsaws. The Green Machine puts seven feet of safety between you and the cutting blade.

## 30-inch Hedge Trimmer

Here's an accessory for the Green Machine every gardener needs: a thirty-inch hedge trimmer made of high quality components in the drive train and aircraft-quality chrome-plated steel blades. A quick change-over allows removal of the seven foot extension bar so you may have a handy-to-use hedge trimmer that lets you quickly sculpt hedges and ornamental shrubbery back to precise shapes and dimensions. *Unquestionably, this combination of high-performance engine and precision cutting unit results in the finest, high-production hedge trimmer available today.*



## Multi Drill... and Auger!

This accessory alone can easily justify The Green Machine's original purchase price. Complete with the engine power head, the two-speed multi drill unit weighs a mere 20 lbs. And here's a surprise: the tool handles earth augers in bit sizes ranging from one-inch diameter to eight inches! Use it for digging post holes, cutting tree aeration and fertilization holes, sign post holes, fences, guy wire discs – and many other uses. And with the flick of a switch, and a thirty-second changeover, the Green Machine becomes a heavy-duty drill, with a 1/2" Jacobs chuck that handles wood, metal and cement bits. It's a super-heavy-duty drill accessory that does the job without the stalling often found in electric drills.



## WARNING

**WEAR SAFETY GOGGLES  
WHEN USING BRUSH OR SAW BLADES  
USE BLADE GUARD  
KEEP CUTTING EDGE AWAY FROM YOUR BODY  
KEEP BYSTANDERS 20 FT. AWAY AT ALL TIMES**

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## GREEN MACHINE TROUBLE SHOOTING CHART

TROUBLE	POSSIBLE CAUSE	CORRECTION
<b><u>FAILURE OF ENGINE TO START</u></b>		
<b><u>No Spark</u></b> 1. Failure located on the spark plug side	1. The electrode of spark plug is wet 2. Carbon deposit sticks to the electrode of spark plug 3. Undersize or oversize gap of the electrodes of spark plug 4. Burning of the electrode of spark plug	1. Dry it 2. Clean it 3. Adjust the gap to 0.5 0.6 mm 4. Replace spark plug
2. Failure located on magneto side	1. Poor adjustment of the breaker point 2. The breaker point is dirty 3. Breakage of insulating material of plug wire 4. Short-circuiting of the main body of contact breaker 5. Loose joint of the main body of contact breaker 6. Condenser failure	1. Adjust properly the ignition timing 2. Clean the point 3. Replace or repair the plug wire 4. Replace or repair contact breaker 5. Tighten properly 6. Replace condenser
<b><u>Has Spark</u></b>		
1. Proper compression and sufficient fuel	1. Engine flooded 2. Use of improper fuel 3. Poor adjustment of ignition timing	1. Clean plug and air filter 2. Replace with proper fuel: 20:1 mixture 3. Adjust properly the ignition timing
2. Sufficient supply of fuel but compression is poor	1. Heavy wear of cylinder, piston and piston ring	1. Replace all worn parts
3. No supply of fuel to the carburetor	1. Fuel tank is empty 2. Loose fuel hose fitting or loose carburetor 3. Fuel is available in the tank, however, fuel does not reach the carburetor	1. Refill the fuel tank 2. Tighten fuel lines or carburetor 3. Tighten gas cap or repair fuel pump
<b><u>POWER IS NOT SUFFICIENT</u></b>		
1. Compression of engine is normal and there is no misfiring	1. Air leakage through the pipe fitting, etc. 2. Air leakage through the carburetor mounting joint 3. Water is mixed in fuel 4. The muffler is plugged with carbon 5. The diaphragm of carburetor is found inoperative	1. Tighten the fitting with mixture of fuel and oil 2. Replace the gasket or tighten the joint 3. Replace with proper fuel 4. Clean the muffler or replace it 5. Replace the diaphragm or carburetor
2. Overheating is observed	1. Excessively lean fuel mixture 2. The ignition timing is retarded 3. The fan cover, cylinder cooling cover, etc. are stuffed with dirt	1. Adjust and clean carburetor 2. Adjust the ignition timing 3. Clean and remove dirt
3. Knocking noise is heard	1. Irregular ignition timing 2. Use of improper fuel 3. The combustion is covered with carbon deposits	1. Adjust the ignition timing 2. Replace with proper fuel: 20:1 mixture 3. Clean the combustion chamber
4. Miscellaneous	1. Loading and plugging of air cleaner 2. Excessively high load 3. Throttle lever does not operate in full 60° arc 4. Cord is too long 5. Four cords used instead of two	1. Wash the air cleaner with mixture of fuel and oil 2. Reduce the load 3. Adjust throttle cable at carburetor top 4. Cut cord to 6" max. 5. Cut two opposite cords to 1" length
<b><u>ENGINE STOPS WHILE IN OPERATION</u></b>		
1. Engine stops abruptly	1. Spark plug failure 2. The piston shows score surface with indication of seizure 3. Failure of proper functioning of magneto	1. Replace spark plug 2. Dress cylinder and piston and replace seized piston ring 3. Disassemble magneto and replace nec. parts
<b><u>ENGINE WILL NOT STOP WHEN TURNED OFF</u></b>		
	1. The extreme end portion of ignition plug is red-heated 2. Rubber at the extreme end of carburetor knob is worn	1. Clean or replace spark plug and adjust the gap to 0.5 0.6 mm 2. Replace worn part
<b><u>SHAFT VIBRATES</u></b>		
	1. Cord is not in balance - both cords not of same length 2. Cord is worn down 3. Nylon cord head is bent 4. Saw or Brush blade not centered on Holder A 5. Grease or oil has gotten into clutch assembly (clutch housing) 6. Lower gear case is out of grease	1. Equalize cord length at 6" 2. Saw as #1 3. Replace arbor post, part #203398 4. Re-center blade on holders 5. Clean clutch shoes and drum 6. Grease gear case - 30 operating hours

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# The Green Machine®

A product of HMC, Torrance, Ca 90502

## Power Blower

### Model 4600

The tool with hundreds of uses. 

Extra Large Gas  
Tank — 3.6 Qts.  
(3 hours of Operation)

The Green Machine®  
Power Blower

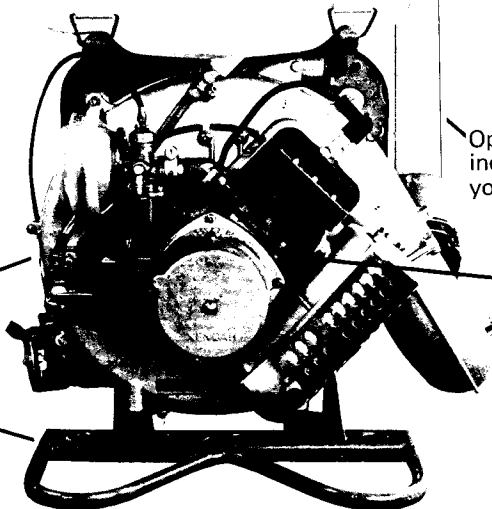
Jet air Speeds  
up to 200 mph

Optional attachments  
increase the jobs  
you can perform

Light weight 20.5 lbs.  
Comfortable on  
the back

Vibration free  
Design —  
Durable one  
piece frame

Dependable  
Green Machine  
37.4 cc Engine  
full bearings —  
chrome  
plated cylinder



#### Technical Data Blower Model 4600

Overall Dimensions (Length x Width x Height)	335 mm x 495 mm x 524 mm	13 in. x 193 in. x 20.4 in.
Weight	9.3 kg (excl. pipes)	20.46 LBS.
Delivery Volume	12.5 m <sup>3</sup> /min.	6328 ft. / min.
Air Velocity	60-90 m / sec.	200 mph
Fuel Capacity	4L	3.6 qt.

#### Engine

Type	2-stroke, single cylinder
Bore x Stroke	38 mm x 33 mm
Cubic capacity	37.4 cc
Maximum output	2.4 PS/8,000 rpm
Starting system	Recoil starter
Stopping system	Cut-off of fuel supply
Cooling system	Forced air-cooling
Ignition system	Magneto ignition type
Spark plug	NGK B-7S
Carburetor	Float type
Air cleaner	Semi-wet type
Lubrication system	Mixture of fuel and oil type
Mixture ratio of fuel and oil	Lead-free gasoline 20:Oil 1
Direction of power revolution	Left hand (Viewed from output shaft)

The Model 4600 Blower is powered by a precision 2-cycle gas engine coupled to a high-efficiency fan and pipe design. This same Green Machine engine has been well-proven on a wide range of portable tools. In addition, the quality and durability of the Model 4600 are backed by a nation-wide service network.

Operator comfort and efficiency are also key design features of the Model 4600. These include light weight (20.5 lbs.); vibration-free design; over-size gas tank; and comfortable, well-padded harness.

**The Green Machine Power Blower. The tool with hundreds of uses:**

Stadiums	Golf Courses
Theaters & Pavilions	Tennis Courts
Apartment Houses	Janitorial Services
Warehouses	Landscapers
Plant Cleaning	Lumber Yards
Playing Court drying & cleaning	Municipal & County Parks
Fire Departments	Snow Removal
Parking Lots	Amusement Parks
Race Tracks	Contractors
Road Maintenance	Churches
Roofers	Farms & Acreage
Schools & Universities	Garden Contractors
Shopping Centers	Gas Stations

## The Green Machine®

HMC, 22133 So. Vermont, Torrance, Ca. 90502

[www.mymowerparts.com](http://www.mymowerparts.com)



## THE GREEN MACHINE ASSEMBLING AND OPERATING INSTRUCTIONS MODEL 2500 - 3000 - 3100

Your **GREEN MACHINE** is a precision manufactured piece of equipment built for years of trouble free service when you follow the operating and service instructions found in this manual.

### ASSEMBLING THE GREEN MACHINE

#### 1. Mounting Drive Unit (Fig. 1)

- Mount the engine so that the spark plug will turn upward.
- For installation of the engine, use the bolts attached.
- Set the stand as shown in the figure and fasten with the bolts.
- Be sure to tighten the bolts equally.

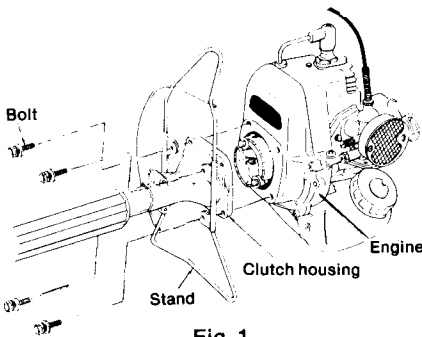


Fig. 1

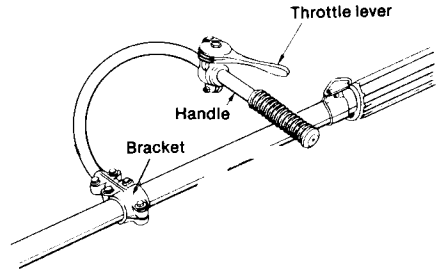


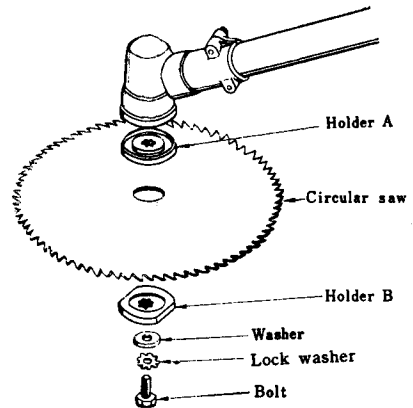
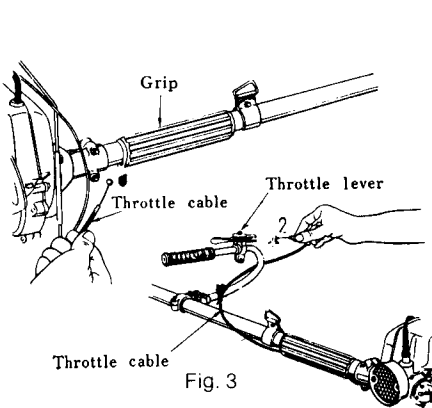
Fig. 2

#### 2. Installing Handle (Fig. 2)

- Unscrew the five (5) bolts of the handle bracket to install the handle with the grip up.
- Fasten bolts softly after setting handle in bracket.
- Adjust the inclination and the position of the handle and tighten the bolts firmly.
- The throttle lever fitted with the handle should be placed on level.

### 3. Installing Throttle Cable (Fig. 3)

- Pass the throttle cable attached to the engine through the grip.
- Hook the end of the throttle cable on the throttle lever provided on the handle.
- Make sure throttle lever operates approximately at 60° swing. (Adjust at connection to carburetor.) Fig. 9



### 4. Installing the Rotary Head (Fig. 4)

- Remove bolt and two washers at the bottom of the shaft (NOTE save these, as they are needed when using brush or saw blades).
- **CAUTION:** Loosen Glideball before installing Rotary Head.
- Make sure both Holders A and B are on the gearcase (see Fig. 4) attach head by turning in a counterclockwise direction while holding Holder B with large spanner wrench from tool kit.
- Tighten Rotary Head as tight as possible by hand, before retightening Glideball.
- Retighten Glideball

## PREPARATION AND PRECAUTIONS BEFORE STARTING

### 1. Inspection

- Check to see that the ignition plug and other parts are securely in place.
- Because the engine is of an air-cooled type, the clogged cooling air passage will cause the engine to overheat. Make sure that the air inlet and outlet are free from dust, dirt, and other foreign material.
- Check the air cleaner for cleanliness, as the dirty air cleaner adversely affects the performance of the engine and its fuel consumption. Also inspect the ignition plug for cleanliness.
- Pull the starter to see if proper compression takes place in the cylinder.

### 2. Supplying Fuel

- Fill the fuel tank with fuel. Use the mixed fuel of gasoline and oil in the ratio 20:1. — 6 oz. of oil to one gallon of gas.
- The quantity fuel to oil has an important effect on the contamination of the ignition plug and sticking of carbon within the muffler and cylinder. It is important that only oil exclusively intended for 2-cycle air cooled engines be used.

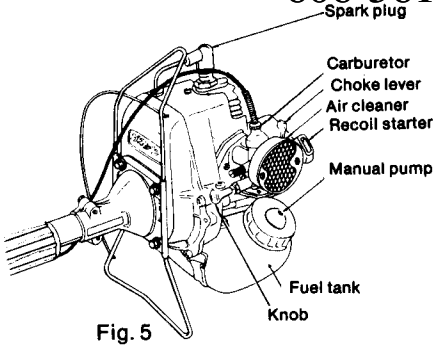


Fig. 5

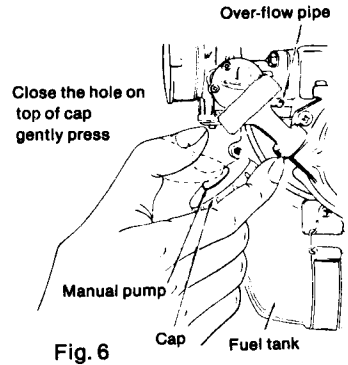


Fig. 6

### 3. Starting the Engine (Figures 5-6-7-8) **MODEL 2500**

#### A. When the engine is cool

- Push the red knob in all the way.
- Push the hand pump 5 or 6 times on the fuel tank cap.
- Push the green tickler until fuel will appear from the over-flow pipe.
- Pull the red knob all the way out and move the choke lever to the "Closed" position and move the throttle lever  $\frac{1}{3}$  to  $\frac{1}{2}$  of full open position. Pull the rope recoil starter strongly to start the engine. Caution: **Do not pull rope out beyond red dye marking!**
- After the engine has been started, fully open the choke by slowly returning its lever to the "Open" position and also return throttle lever to idle.
- If the engine fails to start in spite of pulling the recoil starter several times, try above operations again.

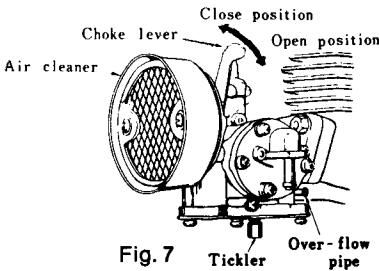


Fig. 7

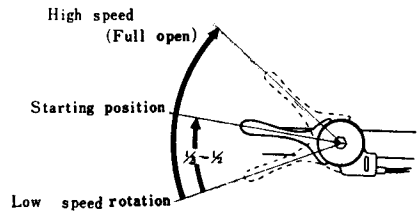


Fig. 8

#### B. When the engine is warm

- Place the choke lever to "Closed" position and open throttle lever  $\frac{1}{4}$  of full open.
- Pull the recoil starter.
- When the engine has been started, turn the choke lever to open position.
- When the engine fails to start in spite of pulling the rope several times, try the same operations as in cool situation.

#### Remarks:

1. When pushing the green tickler do it all the way. **Do not pump tickler**
2. When the tank is short of fuel and the fuel tank is full of air, start the engine after pushing the hand pump additional times before the above mentioned operations.
3. When the engine fails to start in spite of trying the operations for starting several times, it is because of excessive suction of fuel. Then try to start with spark plug jerked, choke lever "Open", throttle lever with full open, and the excessive fuel will be thrown off by pulling recoil starter 5 or 6 times.

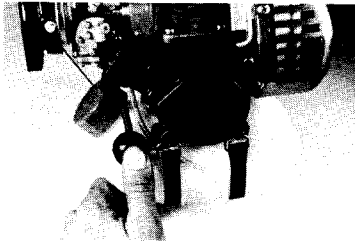


Fig. 6a

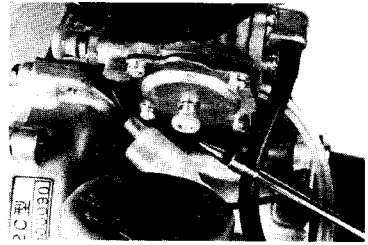


Fig. 7a

## Starting Engine (Figures 5-6-7-8-) **MODEL 3000 - 3100**

### A. When the engine is cool

- Pull red knob out all the way, move choke lever to the closed position, then advance throttle lever to  $\frac{1}{3}$  to  $\frac{1}{2}$  open.
- Push in and hold green tickler valve, see figure 7a (**CAUTION: Do Not Pump Tickler**)
- Pump primer until fuel flows from over flow tube, see figure 6a
- Using short strokes, pull starter rope strongly (**CAUTION: Do not pull rope out beyond red dye mark**) approximately 20 inches.

### B. Same as 2500

### Remarks:

1. Do not pump tickler valve, push in and hold.
  2. If engine fails to start after following starting instructions several times, the engine may be flooded. (Excessive fuel in combustion chamber). If this should happen, remove spark plug, move both choke and throttle to full open, pull on starter rope 5 or 6 times this will clean out excessive fuel.
- Before starting operations, run the engine at idling speed for a few minutes of warming up.
4. **Adjusting Engine (Fig. 9)**
    - Adjust the engine with adjusting screw for idling so that it may keep stable running when the throttle lever has been returned to low speed position. The idling speed will be increased by running the idling adjusting screw clockwise, and decreased by turning it counter clockwise
    - For adjustment, start the engine and adjust its speed at such that the clutch is disengaged and the cutting head comes to a stop.

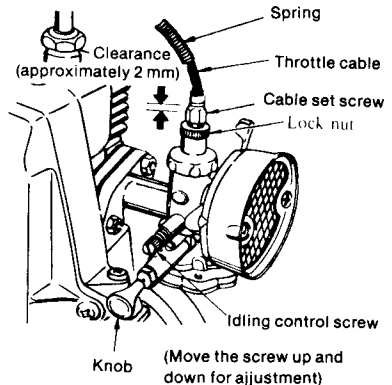


Fig. 9

### 5. Stopping Engine

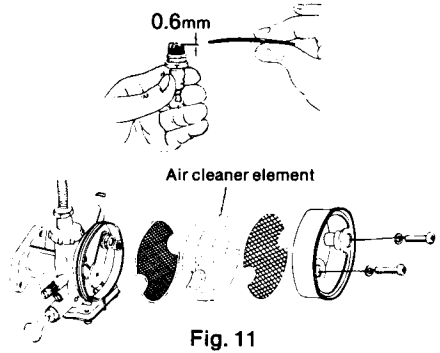
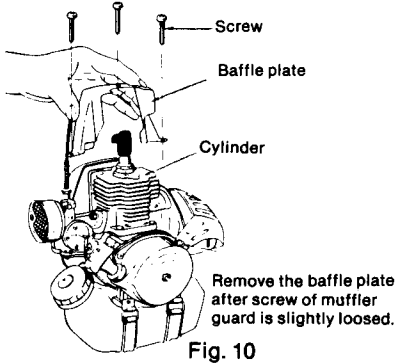
- Release the throttle lever to slow down the engine and let it run for a while to cool down.
- Push in red knob until the engine comes to a full stop.



## MAINTENANCE AND ADJUSTMENT

### 1. Daily Servicing

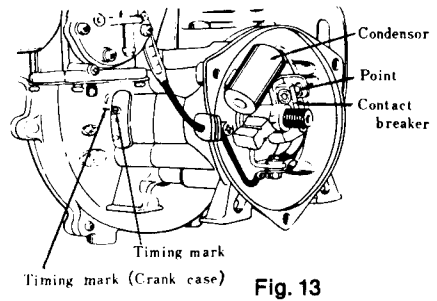
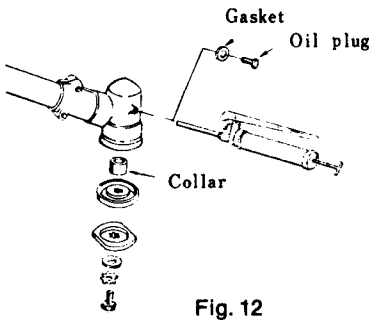
- Completely remove dust and grass from the whole unit.
- Pay attention to the substance which may have stuck to the cooling air passage and the air cleaner section of the engine.
- Carefully inspect every fastened part for looseness or missing parts.
- Make sure that fuel, oil or grease is not leaking.



### 2. 30-Hour Servicing

- Remove the baffle plate, and remove dust and grass stuck to the cylinder. (Fig. 10)
- Remove the spark plug, and adjust its gap after cleaning. The gap is correct when there is a clearance of 0.6mm.—.024 inches.
- Take the air cleaner element out of the carburetor and clean it in cleaning solvent. (Fig. 11)

**ALWAYS USE YOUR EYE PROTECTORS and KEEP BYSTANDERS at SAFE DISTANCES.**



- Grease the lower end of drive unit (use Shell lithium base multi-purpose grease or equivalent). **When greasing, remove the cutting head or blade and collar from the gear shaft and supply fresh grease till old grease is completely forced out.** (Fig. 12)

### 3. 100-Hours Servicing

- Retighten each fastened part, if necessary.
- Clean the magneto point and check the ignition timing.
- Retarded or advanced ignition timing causes faulty performance of engine, resulting in knocking. In the worst cases, overheating or hard starting will be the result.
- The condenser can be seen when the recoil starter and starter-pulley are removed. Wipe off dirt stuck to the points.
- The ignition timing is correct when the points starts opening with the match mark 0 on the crankcase aligned with that on the flywheel. Correct the timing by adjusting the spark gap of the point. (Fig. 13)
- It may appear rather difficult to adjust the ignition timing without some experience. In such a case, contact your nearest GREEN MACHINE dealer.
- Remove muffler cover and clean carbon from spark arrestor screen. (see Page 2 SUPPLYING FUEL)

## TIPS ON OPERATING YOUR GREEN MACHINE

### 1. TRIMMING

THE LENGTH of the cord should be 6 INCHES for TRIMMING.

When the cord is LONGER, it will GRAB THE TURF. When it is shorter, it is not working at its BEST, and if too short will cause the engine to run too fast.

ALWAYS TRIM from the RIGHT SIDE because it will throw the grass forward. When you trim from the left side, it will throw the grass back at you.

### 2. SAFETY

WEAR SAFETY GOGGLES! !

The GREEN MACHINE may tend to give you a FALSE SENSE OF SAFETY. The dramatic demonstration of cutting around people's feet, around small bushes, etc., without harm MAY MISLEAD YOU.

Although the GREEN MACHINE is the WORLD'S SAFEST GRASS cutting, motor driven tool, it is NOT COMPLETELY HARMLESS, especially to bystanders. KEEP THEM AT SAFE DISTANCES.

The GREEN MACHINE does not SLING objects with the velocity that a conventional power mower does, or a conventional edger, but it DOES SLING OBJECTS, which may hit YOU or BYSTANDERS in the EYE or other sensitive areas.

### 3. GET COMFORTABLE

Your HANDLE BAR is ADJUSTABLE.

Move it backward, forward, etc., until you feel comfortable with its position. (Fig. 14)

Your SHOULDER STRAP is adjustable and should be adjusted UP or DOWN so that the HEAD will lie FLAT and PARALLEL to the GROUND when it TOUCHES the ground. Adjust the SHOULDER PAD so that it lies in the MIDDLE of the SHOULDER. Don't let it rest where the NECK and SHOULDER meet.

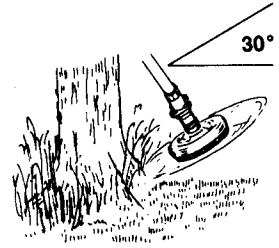
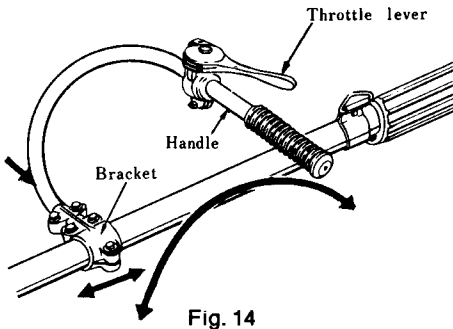
When you adjust the unit properly, you will be able to use it standing naturally without having to BEND FORWARD or STAND UP on your TOES.

### DON'T WORK HARD

This unit is DESIGNED FOR FINGER TIP CONTROL. USE your FINGERS to MOVE the UNIT and NOT YOUR BODY. With practice, this will become easy, but try to remember this in the BEGINNING.

You should not have to STOOP or RAISE UP if the unit is adjusted properly (see 'Get Comfortable').

LIGHT WEIGHT strap helps eliminate FATIGUE.



## 5. FRAYED ENDS

Should your cords fray to the extent that impairs cutting ability, simply snip off the frayed portion.

HOWEVER, 'frayed ends' are GREAT for SPECIAL CUTTING see 'Trimming Trees'.

## 6. TRIMMING TREES

There are MANY KINDS and SHAPES OF TREES! What you will be concerned with mostly is the NATURE of the BARK. If the bark is TENDER, you will want to use ONE or MORE of the FOLLOWING:

1. SHORTEN length of cord to 4 or 5 inches.
2. SLOW DOWN the engine.
3. Use FRAYED ENDS.

Be sure to TILT your machine so that you approach your trees at 30 degrees, as shown in the example for "TRIMMING". (Fig. 15)

START SLOW and work up to your OWN TREES, BUSHES, etc. After a time or two — you'll know EXACTLY HOW TO HANDLE your trees, bushes, etc., at a FAST CLIP!

## 7. EDGING

CORD LENGTH should be six (6) INCHES.

NOTE: The purpose of edging is to keep the grass from growing over walk-ways, curbs, driveways, etc. Because edging the conventional way was the ONLY WAY to accomplish this, people THROUGH HABIT want to CONTINUE edging in this manner. People are used to DIGGING A TRENCH along walk-ways, etc.

IF YOU WANT TO MAKE THIS JOB 10 TIMES FASTER than the present method, let your grass grow across the 'trench', then come along with THE GREEN MACHINE and trim it off by letting the cords skim along the edge of the concrete.

## 8. MOWING

LENGTH of CORD should be not more than six (6) INCHES.

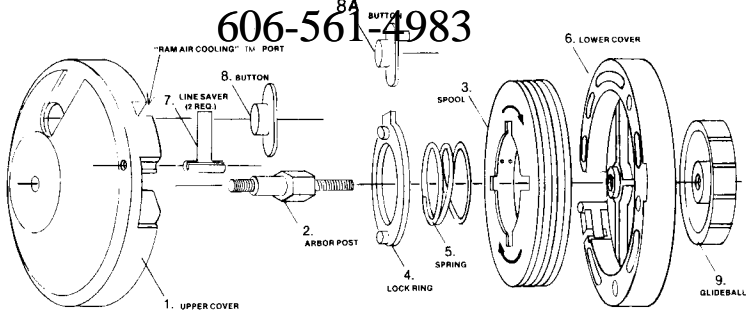
For those SMALL, HARD-TO-GET-TO-AREAS use YOUR GREEN MACHINE for mowing! It's GREAT! To do this, let the rotary head LIE FLAT on the ground and swing from one side to the other.

USE YOUR SAFETY GLASSES as it will be throwing grass in all directions.

## 9. SWEEPING

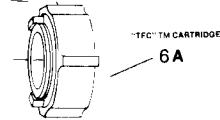
LENGTH of CORD should be not more than 6 INCHES.

For a QUICK CLEAN UP on PATIOS, WALK-WAYS, DRIVEWAYS, etc., use "THE GREEN MACHINE". Man, it's FAST! !



NOTE: On "TFC" Head (Tap for Cord) # s  
 6a and 8a are used in place of # s 4, 5, and 8.

Fig. 16



**10. When your string wears down**

- A. ENGINE IS RUNNING — Open throttle wide open (engine running a maximum RPM), tap head on the ground with the head slightly tilted and string will come out. Do not run string out over six inches. Each tap feeds you about 1½ inches of string. If you let your string wear down to 3 inches or under, it will be necessary to stop engine and follow instruction under 3b. When your unit is new it may take a sharper tap on the ground to get string to come out.
- B. ENGINE IS STOPPED - Push black button on top of head firmly and pull string out until the line stops. Cut off any string over six inches.

**What is "RAC"™. "Ram Air Cooling"**

One of the problems with all nylon cord string cutter in the past is that when the head is in operation and the string is applied to the material for cutting, a tremendous amount of vibration is developed which creates a great amount of heat. This heat causes the nylon string to melt off, either at the exit port of inside the head, making it necessary to pull out more string -- or even open up the head to get at the string, and pull it out. This results in much loss of time and nylon string. THE GREEN MACHINE's new exclusive "RAC"™. "Ram Air Cooling" creates a constant air flow - under pressure -- in behind the metal line retainer. Thus, the heat is reduced and you have use of all of your nylon string for cutting -- you save nylon string -- and time!! **Make sure the two "RAC" ports are kept open.**

**11. Replacing your GREEN-LINE™ or Cleaning rotary head**

When all of your GREEN LINE™ on the spool have been used up, remove the glide ball on the bottom of the head, turning it clockwise. Next, remove the lower body and the spool. Rewind both sides of the spool by sticking the GREEN LINE™ in the appropriate hole in the inside wall of the spool. Wind in a counterclockwise direction when holding with the notched side down, (see figure 16). Put a drop of oil directly on the nylon string to assist in keeping it from binding on the spool. When replacing the spool in the upper body, first make sure the button and "TFC"™ cartridge are in place. The cartridge has two stops on the upper side. These must be fit into the wide spaces on the upper cover.

Replace the spool in the upper body. To make it easy to close the lower body, first make sure the GREEN LINE™ on the notched side is placed in the exit port of the upper body, hold to other GREEN LINE™ in place in the position of the exit port of the lower body. Then line up the metal line retainers with the appropriate holes and fit upper and lower ball, turning counter clockwise. Tighten hand tight, making sure you have a snug fit of the upper and lower body.

# For Green Machine Parts Call 606-678-9623 or

## 12. Why use GREEN LINE™ 606-561-4983

GREEN LINE™ is not "fishing line", but rather a special formulated monofilament nylon designed to give you the longest wear and best cutting possible for your GREEN MACHINE. There are many string cords on the market but we have not found and better for use is THE GREEN MACHINE® string trimmers. GREEN LINE™ is available from your GREEN MACHINE dealer in the following manner. Choose the best fitted for your use.

A extra Spool - Gives you a spare, for quick replacement

- |   |        |
|---|--------|
| ● EXTRA SPOOL                           | 205255 |
| ● BLISTER PACK 40 FT. (.080) ON A SPOOL | 32003  |
| ● BLISTER PACK 50 FT. (.080) CORD ONLY  | 31080  |
| ● 1 LB. 4" BULK SPOOL (.080)            | 31005  |
| ● 3 LB. 7" BULK SPOOL (.080)            | 31004  |

**13. AFTER THE INITIAL WARM UP — The GREEN MACHINE should be run at FULL THROTTLE at all times when cutting.** When not cutting, cut THROTTLE all the way back to completely disengage CLUTCH. Do not run at HALF CLUTCH (HALF THROTTLE). Continued clutching and declutching of the CENTRIFUGAL CLUTCH by changing the THROTTLE LEVER back and forth from slow to fast causes unnecessary wear on the CLUTCH SHOES.

### 14. HOW LONG WILL THE CORD LAST? ?

This depends strictly upon WHAT you are cutting, and HOW you are cutting. HOWEVER, you WILL NOT get the BEST WORK out of your cords in the BEGINNING. As you develop the TECHNIQUE and KNOW HOW, you will find the cords lasting MUCH LONGER.

WHAT YOU ARE CUTTING. If you are cutting THICK HEAVY WEEDS along a neglected chain-link fence, the cord goes pretty fast.

EXAMPLE: A neglected chain-link fence around a double wide tennis court took SIX PULLS OUT of cord, getting it SHAPED UP, on the outside perimeter. And SIX PULL OUTS on the inside perimeter getting it shaped up.

TWO WEEKS LATER, it took only ONE PULL OUT to MAINTAIN the TRIMMING. Once on the outside, and once on the inside.

**IN SHORT — MAINTAINING a lawn is QUICK and EASY on both you and the cord. SHAPING UP is a bit tougher on both you and the cord.**

### HOW YOU ARE CUTTING

The TECHNIQUE of using the GREEN MACHINE is to learn JUST HOW MUCH cord you FEED into whatever is being cut. The objective is NOT TO FORCE the CORD, or ROTARY HEAD, into what is being cut.

Let the cords 'PLAY' over (or into) the grass or weeds, using FINGER TIP CONTROL.

ROCKS, CULVERTS, CHAIN-LINK FENCES, ETC.

When nylon cord is bombarding sharp edges, it will naturally wear out quickly.

HERE'S A GOOD TIP. When approaching a CULVERT — SAVE THE SHARP EDGES FOR LAST! First, clean all around the culvert (saving your cord), then attack the sharp edges. Your cords will go fast on the sharp edges, but your job will be finished by then.

Had you attacked the sharp edges FIRST, you would have worn out your cords BEFORE finishing the job, necessitating an EXTRA PULL OUT for he SAME JOB.

\*\*\*USE THIS TECHNIQUE in ALL OF YOUR WORK.

### 15. BRUSH

If YOU HAVE A LOT OF BRUSH — you must use the SPECIAL BRUSH BLADE (metal), which will ANNIHILATE brush in NOTHING FLAT! The BRUSH BLADE cuts brush as DRAMATICALLY as 'THE GREEN MACHINE' cuts weeds!

### CLEARING HEAVY BRUSH

When you want to clean brush, or small trees, over ¾ inches in diameter, then you must turn to the SAW BLADE (metal). It will CUT TREE BRANCHES UP TO 3 INCHES IN DIAMETER.

### 16 OTHER TIPS

- A. Always cut from LEFT TO RIGHT, tilting machine slightly to left with the machine held across your body and the cutting head out to your left side.
- B. The BEST LENGTH for the cords is 6 inches. When longer, it tends to 'grab' giving the operator less control in cutting exactly that which he wishes to cut and also it reduces the RPM of the engine and thus does not cut to its best efficiency. When the cord wears short, it does not cut effectively. Simply pull out more cord and snip off frayed ends.
- C. The cord will wear, or break, quickly when you first start using 'THE GREEN MACHINE'. As you gain experience, you will learn to get maximum use from the cord. But remember,
  1. Do not 'overwork' the cord! That is, do not feed cord into the grass being cut any more than is necessary to effectively cut it.
  2. Do run your machine at full speed (full throttle) when using nylon cord.
- D. The nylon cord is just like any other cutting edge. When the ends fray they become dull. To sharpen, simply clip the ends with a pair of snippers.
- E. When cutting around trees, always cut from the RIGHT SIDE of 'THE GREEN MACHINE'.
- F. **DO NOT USE any type of WIRE** in place of nylon. Wire will shatter into hundreds of splinters creating a real danger for the operator and anyone else who may be nearby.
- G. Always use 'eye protectors', and keep by-standers at SAFE DISTANCES.

### 16. TOOLS YOU SHOULD HAVE

1. WIRE CUTTERS
2. SCREW DRIVER
3. 6-OUNCE MEASURING CUP, to mix 6 ounces of SAE 30 CHAINSAW OIL — or 30 GRADE 2-CYCLE OIL, to EACH ONE (1) GALLON OF 'regular gasoline'.
4. GASOLINE CAN to pre-mix your gas and oil.
5. SPARK PLUG WRENCH for spark plug changes (always keep an extra plug).
6. ALLEN WRENCH which comes with your machine.
7. SAFETY GLASSES.
8. OIL CAN.

### 17. WARRANTY

The GREEN MACHINE is WARRANTED for 90 DAYS against DEFECTIVE PARTS, including PARTS and LABOR. Your authorized GREEN MACHINE agency will also have COMPLETE SERVICE PARTS and SUPPLIES.

**AVAILABLE THROUGH YOUR LOCAL GREEN MACHINE DEALER.**

**THE GREEN LINE™** Replacement Cord

\*LIGHTWEIGHT NYLON CLIPPERS

\*SAFETY GOGGLES

\*DUAL PURPOSE OIL CAN

Plus the complete line of GREEN MACHINE attachments and accessories.

Complete the GREEN WARRANTY CARD showing Model No. 3000 and serial number as found on the engine. Mail it today! !

## **WARNING**

**WEAR SAFETY GOGGLES  
WHEN USING BRUSH OR SAW BLADES  
USE BLADE GUARD  
KEEP CUTTING EDGE AWAY FROM YOUR BODY  
KEEP BYSTANDERS 20 FT. AWAY AT ALL TIMES**

For Green Machine Parts Call 606-678-9623 or

~~606-561-4983~~

**WARRANTY CERTIFICATE**

**HMC - THE GREEN MACHINE<sup>®</sup>**

**90 DAY LIMITED WARRANTY**

HMC, as manufacturer, warrants each new GREEN MACHINE delivered to the original consumer by HMC, or its authorized dealers to be free from defects in material and workmanship under intended normal use, as described in the unit's operation instruction manual, for a period of 90 days from the date of sale, provided that the original consumer registers the warranty with HMC, within ten (10) days after purchase. The warranty is extended only to the individual or legal entity (registered consumer) whose name appears on the warranty registration card filed with HMC, and may not be transferred to any other individual or legal entity.

Should your GREEN MACHINE fail within the warranty period due to defective parts or workmanship, return the unit, prepaid, with proof of purchase, directly to any GREEN MACHINE authorized service center for no charge repair. The location of your nearest authorized service center may be obtained from the Yellow Pages under "Lawn Mower", or from the dealer from whom it was purchased, or by contacting the nearest GREEN MACHINE distributor.

HMC, assumes no obligation to pay the registered consumer a cash refund. This remedy represents the full extent of the manufacturer's liability with regard to these products and is in lieu of all other remedies. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

The provisions of this warranty shall not apply to any GREEN MACHINE that has been subjected to misuse, use contrary to the instruction manual, negligence and/or physical damage, or which has been repaired or altered by anyone other than HMC, or a GREEN MACHINE authorized service center.

**THE COMPANY SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.** 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.

There are no express warranties other than as contained in this statement, and any implied warranties shall expire 90 days after the date of purchase. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

HMC 102R 1/77

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