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# The Green Machine®

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## ASSEMBLY AND OPERATING INSTRUCTIONS

### MODELS:

2300 POWER UNIT  
2340 STRING TRIMMER/BRUSH CUTTER  
2360 POWER BLOWER  
2370 CULTIVATOR

### ATTACHMENTS:

2331 STRING TRIMMER  
2341 STRING TRIMMER/BRUSH CUTTER  
2361 POWER BLOWER  
2371 CULTIVATOR  
3371 CULTIVATOR

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To insure maximum performance and safe operation read and understand this manual before operating unit.

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### WARRANTY CERTIFICATE HMC PRODUCT 90 DAY LIMITED WARRANTY

HMC warrants your HMC Product to be free from defects in material and workmanship under normal use for a period of 90 days from date of purchase.

Should your HMC Product fail within the Warranty period due to defective parts or workmanship, just return the unit transportation prepaid to either (1) the retailer who sold it to you or (2) directly to the HMC Factory Service Center, 20710 South Alameda Street, Long Beach, California 90810, U.S.A., or (3) to your regional distributor, whose address is available from HMC or your retailer. HMC will, at its option, repair or replace the unit at no charge. HMC assumes no obligation to pay the registered owner a cash refund under any circumstance.

Please return the enclosed warranty card within 10 days after purchase. If we do not have the card on file we will require other proof of purchase before completing the repairs. This warranty only extends to the original purchaser of the product.

This warranty does not apply if the product has been misused or used contrary to the instruction manual, or if it has been repaired or altered by anyone other than an HMC authorized service center.

This warranty applies only to parts or components which are defective and does not cover repairs necessary due to normal wear, misuse, accidents, or lack of proper maintenance. Regular, routine

maintenance of the unit to keep it in proper operating condition is the responsibility of the owner.

**HMC IS NOT LIABLE FOR INDIRECT OR CONSEQUENTIAL DAMAGES IN CONNECTION WITH THE USE OF THE PRODUCT INCLUDING ANY COST OF PROVIDING SUBSTITUTE EQUIPMENT DURING PERIODS OF MALFUNCTION.**

Some states of the U.S.A. do not allow the exclusion of incidental or consequential damages, so the above exclusion may not apply to you.

Your HMC Product will perform as indicated in the instruction manual and in the accompanying literature. Your retailer may have sold you the machine with a promise that it would handle a particular task. You may return the machine to him if it does not perform that specific task, but we cannot be responsible for promises which are beyond the scope of the above instruction manual or literature.

**THERE ARE NO EXPRESS WARRANTIES OTHER THAN AS CONTAINED IN THIS STATEMENT, AND ANY IMPLIED WARRANTIES SHALL EXPIRE 90 DAYS AFTER DATE OF PURCHASE.** Some states of the U.S.A. do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

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**CAUTION  
READ OPERATING  
PRECAUTIONS**

**WARNING  
ALWAYS WEAR RECOMMENDED  
SAFETY EQUIPMENT AND CLOTHING  
KEEP BYSTANDERS 20 FT. AWAY AT ALL TIMES**

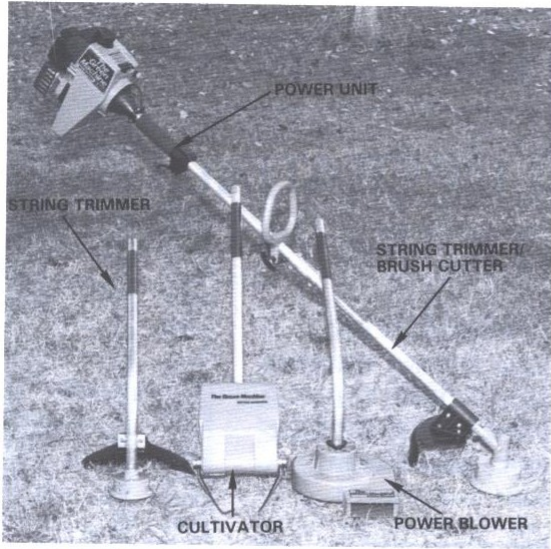
**CAUTION  
READ PRECAUTIONS  
WHEN REFUELING**



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GM522

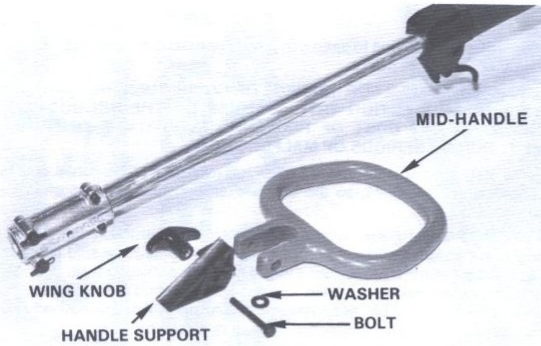
**2300 Power Unit**



**Fig. 1**

**1. Assembly.**

- After opening the carton, be sure that all the parts for the power unit, shown in Figure 2, have been included.



**Fig. 2      Fig. 3**

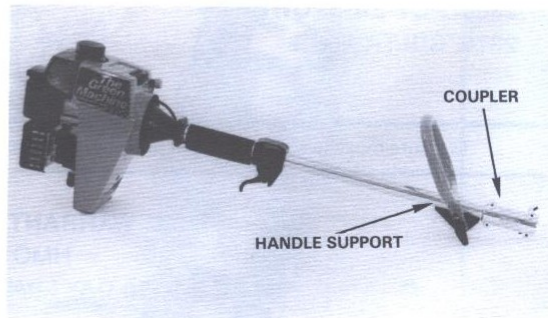
- Snap mid-handle over shaft tube adjacent to tube coupler (top of handle should angle back toward engine).
- Position handle support as shown in Figure 4. Install bolt, washer and wing knob.
- Position handle approximately 1 - 1½ inch above coupler, tighten wing knob.

**NOTE:** Handle may be re-positioned for best balance and comfort after lower unit is attached.

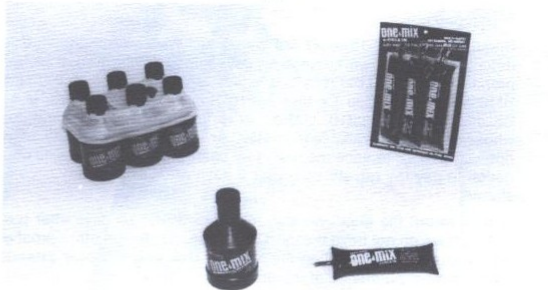
**2. Supplying Fuel.** (Figure 5)

- Use a mixed fuel of regular leaded or premium gasoline and two cycle air cooled engine oil (**Preferably One-Mix™**).

- HMC recommends using **ONE-MIX™**; no mixture ratio figuring is needed. Simply mix one packet of **ONE MIX™** to one U.S. gallon of gasoline (**Do not use unleaded**). Or mix one bottle of **ONE-MIX™** to 2½ U.S. gallons of gasoline. Make sure oil and gasoline are thoroughly mixed.
- For oils other than **ONE-MIX™**, you must make certain of a proper gasoline to oil ratio. When not using **ONE MIX™** a ratio of 25:1 (5 oz. of oil to one U.S. gallon of gasoline) is required.
- **Special note:** When improper type and/or ratio of oil is used, spark plug fouling, muffler plugging, loss of performance and shorter engine life will occur. These conditions are most often related to improper operation and/or improper type and/or ratio of the oil used, and not covered by warranty.



**Fig. 4**



**Fig. 5**

**CAUTION**

1. Never smoke when refueling or refuel in an area with open flame (such as water heater pilot light). Gasoline vapors spread rapidly and are highly explosive.
2. Always stop engine and wait for it to cool before refueling.
3. Clean up any spills and dispose of clean-up materials.
4. After refueling, move to another area for starting.
5. Never over fill. Fill tank only ¾ full to avoid spillage.



**Safety warning:** Gasoline is extremely flammable and highly explosive under certain conditions. Always stop engine, and do not smoke or allow open flame or spark when refueling.



Fig. 6

### 3. Attaching lower unit.

- All the lower units (2331, 2341, 2361, 2371) connect to the power unit the same way, by means of the drive shaft coupler device attached to the power unit driveshaft tube. (Figure 7)
- First, loosen the two wing screws near the open end of the coupler. It is not necessary to remove them or loosen the other (2) two screws.
- Position the slot of the lower tube as shown in Figure 7 and slide the lower unit into the coupler until the tubes of the power unit and the lower unit solidly meet within the coupler. By looking thru the sight hole (Figure 8) in the side, you should see both tube ends are butted together before re-tightening the wing screws. The inner driveshafts will align themselves.
- For changing lower units or breaking down for storage follow the sequence in reverse.

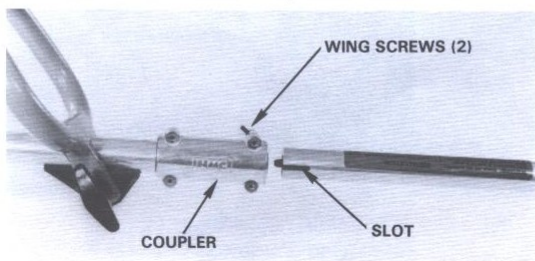


Fig. 7

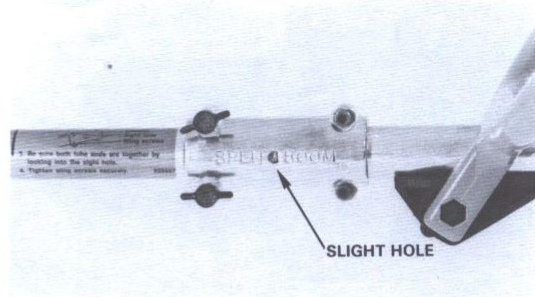


Fig. 8

**Caution:** Be certain wing screws are fully tightened before operating equipment and they should be periodically checked for tightness.

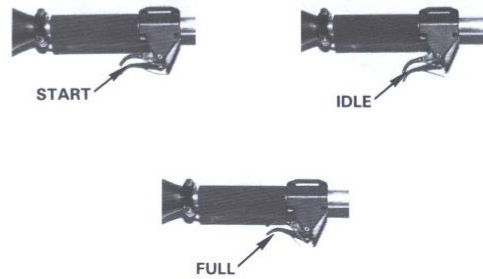


Fig. 9

### 4. Starting the Engine.

**Note:** Keep equipment clear of all objects, and hold off the ground when starting.

- Lock trigger in the start position. (Figure 9)
- Pull and turn choke knob to the closed position (Figure 10)
- Pull starter rope using short rapid strokes until engine starts. (Figure 11)
- After engine has started return choke to the open position.
- Slowly return trigger to the idle position.
- Always allow engine to warm up (run 1-2 min.) before use.

**Note:** Do not close the choke for restarting a warm engine.



Fig. 10



Fig. 11

**Caution:**

- Never pull starter rope all the way out (until it stops), as it will result in recoil starter failure.
- Never operate with the trigger locked in the start position.

- If engine fails to start in spite of trying starting procedure several times, the engine could be flooded. Remove the spark plug, and with the choke in the full open position, throttle in the full open position, pull starter 5-6 times to blow out excessive fuel. Replace spark plug and repeat starting procedure.



Fig. 12

**5. Stopping the Engine.**

- Release trigger and allow engine to return to idle speed.
- Push in and hold red stop button until engine comes to a complete stop. (Figure 12)

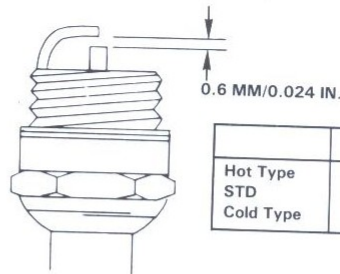
**6. Maintenance and Adjustments.**

- THE GREEN MACHINE engine has been adjusted and set at the factory for optimum performance and fuel consumption. However, varying atmospheric and climatic conditions may require some minor adjustment for your area. These adjustments should be made by your authorized GREEN MACHINE service dealer.
- If the idle speed seems too low or the engine dies at idle then the idle speed may be increased by turning the idle speed screw clockwise or decreased by turning anti-clockwise. (Figure 13)
- Daily or before each use, carefully inspect complete unit for loose or missing parts or fasteners, check for fuel or grease leaks, correct before use. Remove all dust, dirt and grease. Clean and dry after each use.
- After each 10 hours of use, remove, clean, and regap spark plug (.6mm/.024 inches) (Figure 14)



Fig. 13

- **Note:** Spark plug replacement is recommended after 20 hours use or once a year.



	CHAMPION	NGK
Hot Type	CJ-11	
STD	CJ-8	BM-6A
Cold Type	CJ-6	BM-7A

Fig. 14

- Each 10 hours clean and service air filter. (Figure 15) After cleaning, put small amount of engine oil on element and squeeze out the excess.



Fig. 15



- Check fuel filter inside the tank. Clean or replace if needed.
- Service the lower unit as outlined in the appropriate lower unit maintenance section elsewhere in this manual.

#### 7. Storage.

- If unit is to be stored or unused for an extended period (30 days or more), clean the exterior thoroughly and apply a thin coat of oil to all metal surfaces to prevent rust or corrosion.
- Empty all fuel from tank and run engine dry.
- Remove spark plug. Turn engine upside down, and inject a small quantity of oil into the cylinder. Pull the starter rope two or three times to distribute the oil, then reinstall the spark plug.
- Store unit off the ground in a dry area.

**Safety**

- Before each use, inspect complete unit for loose or missing fasteners or parts. If found, correct before using.
- Always wear approved eye protection (safety goggles) when operating unit.
- When operating unit do not wear loose fitting clothes. Always wear long pants and long sleeve shirt.
- Never operate unit while bare foot or wearing open sandals.
- Keep bystanders at least 20 ft. away at all times.

**Warning: Always wear approved eye protection. Keep bystanders at least 20 ft. away.**



**2331 STRINGTRIMMER**  
(lower unit only)  
Fig. 16

#### 2330 STRINGTRIMMER (with power unit)

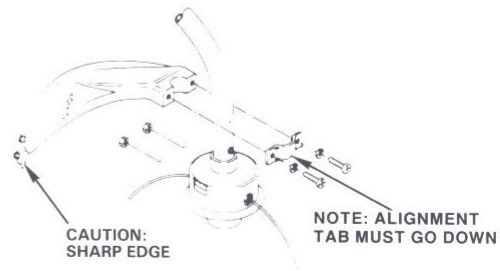


Fig. 17

#### 1. Assembly.

- Install rotary head shield (Figure 17). **NOTE:** Head shield **must** be installed to prevent driveshaft failure due to excessive line length.

**Caution: Use extreme care when installing head shield. Cut-off blade is very sharp, and careless handling could result in serious injury.**

- **Never** operate unit without head shield in place, and in good working order.
- Connect the stringtrimmer lower unit to the power unit as outlined under "Attaching Lower Unit". (Page 2)

**Warning: Always wear approved eye protection. Keep bystanders at least 20 ft. away. Never use any type of blade on the model 2330/2331.**

#### 2. Cutting Technique.

- Hold unit so rotary head is at a 30° angle to the ground. Do not force the unit. Use only the very tip of the nylon line (Figure 18).
- Cut from right to left, with engine running at full throttle.
- Always use the correct line size (.080). Do not attempt to trim or edge with line length past the cut-off blade (Figure 19).





Fig. 18

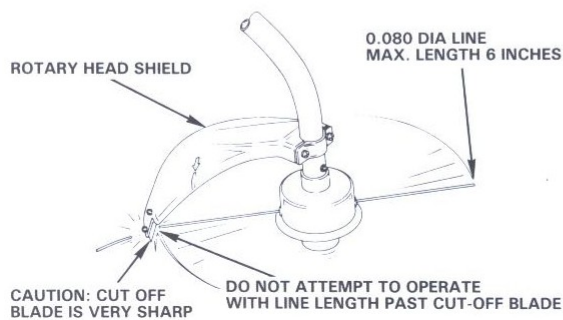


Fig. 19

- **Note:** As the cutting line wears down, engine speed will increase. Allowing engine to run at excessive speed (max. 8,500 rpm) for a prolonged period will shorten engine life.
- For edging, loosen wing nut on mid-handle and turn handle to desired position, and retighten wing nut.
- **Special note:** When edging always turn engine so muffler is away from your body. (Figure 20)

### 3. Extending Line.

- As you perform your trimming tasks, the cutting line will wear shorter. It may be extended automatically, with engine running or manually, with engine stopped.
- **Engine running:** (at full speed) lightly tap (Do not pound) the rotary head on the ground. Line will advance approximately 1/2 inch per tap. When you hear the line making contact with the cut-off blade stop tapping. Never attempt to trim or edge with line past the cut-off blade, or while the line is being cut.
- 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.

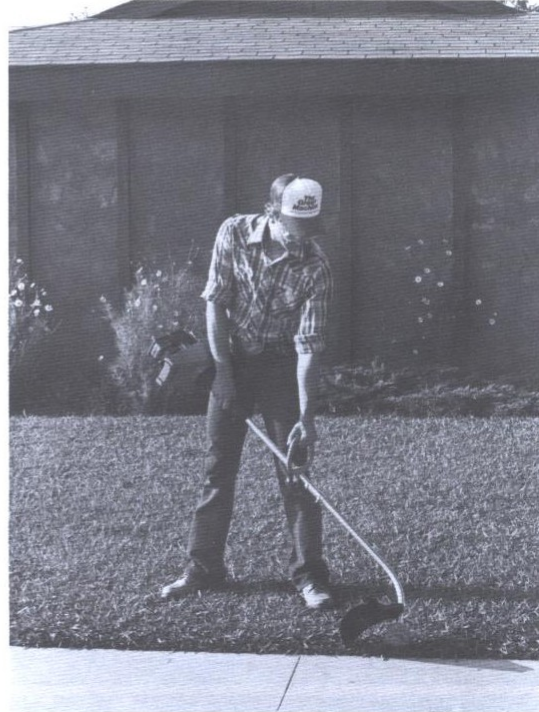


Fig. 20

### 4. To replenish line supply.

- Remove head cap by pushing in on one of the holding tabs (Figure 21) and lifting the head cap. Once both tabs have released, remove cap and lift out spool.
- **Note:** Before reassembly, be sure to clean all dirt and grass out of the head and spool.
- Cut one length of .080 "GREEN LINE" approximately 16 ft. long.

**Caution:** Never use line that is greater than .080 in dia

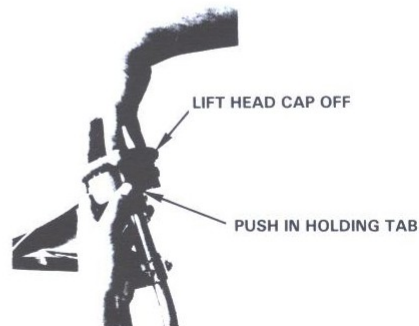


Fig. 21

- Loop the line through holes in the spool (**Figure 22**) and pull out evenly.

ROTATE SPOOL COUNTERCLOCKWISE

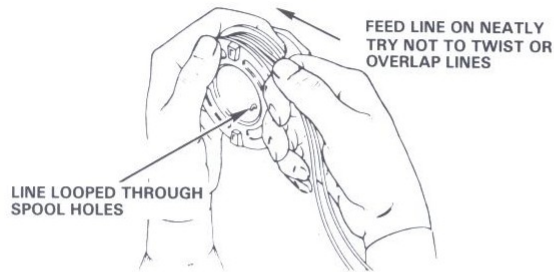


Fig. 22

- Holding the spool upside down, feed the line on by rotating the spool counterclockwise (Do not wind line, rotate spool).
- Insert each line into its respective linesaver, and place spool into the head body (**Figure 23**). **Note: Do not allow lines to slip beneath the spool.**
- Align locking tabs on head cap with their respective slots (**Figure 24**), and push cap down until it locks in place.

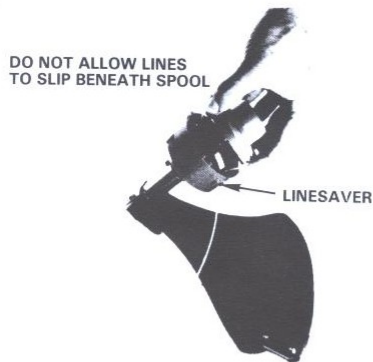


Fig. 23

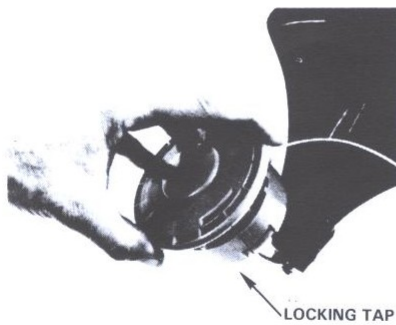


Fig. 24

## 5. Maintenance.

- Basically this lower unit is maintenance free, however if the flex cable is removed it should be regreased and installed exactly as it was removed, **do not reverse**.
- The cable must be installed from the lower end after removing the cutting head.
- The bearings may be re-oiled thru the screw hole shown in (**Figure 25**).

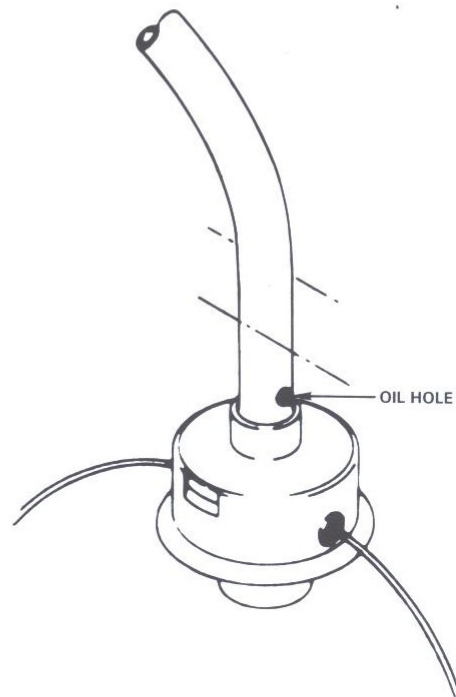


Fig. 25

### Safety

- Before each use, inspect complete unit for loose or missing fasteners or parts. If found, correct before using.
- Always wear approved eye protection (safety goggles when operating unit).
- When operating unit do not wear loose fitting clothes. Always wear long pants and long sleeve shirt.
- Never operate unit while bare foot or wearing open sandals.
- Always trim from right to left (Trimming left to right cuttings will be thrown towards operator).
- Never use any type of blade.
- Never operate without head shield.
- Keep bystanders at least 20 ft. away.



**2341 STRING TRIMMER/  
BRUSH CUTTER**  
(lower unit only)



**2340 STRING TRIMMER/  
BRUSH CUTTER**  
(with power unit)

Fig. 26

**1. Assembly.**

- Using the tools shown in (Figure 27) remove the bolt (left hand thread), star washer, and flat washer at the bottom of the gearcase.

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

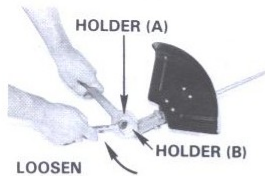


Fig. 27

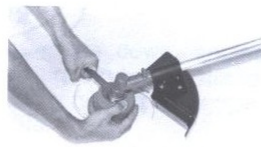


Fig. 28

- While holding holder (B) with large spanner wrench, thread rotary head onto gearcase as shown in (Figure 28). Tighten rotary head as tight as possible by hand.

- Install the blade guard/head shield using the hardware supplied.

**Note: The #10 flat washers must be installed on the bottom side of guard (Figure 29).**

**Caution: Never operate without blade guard/head shield in place and keep bystanders at least 20 ft. away.**

- To install brush or saw blades:  
Remove bolt (LH), star washer and small flat washer at the bottom of gear case (Figure 27).
- Remove holder (B) and place blade on holder (A) making sure that arbor hole in blade is centered on the arbor embossment on holder (A).
- Install holder (B) making sure that the splines line

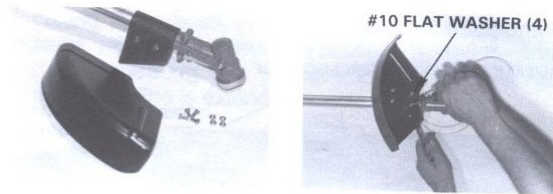


Fig. 29

up and holder 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 30).

**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 holder, and you have a firm grip on the tools.

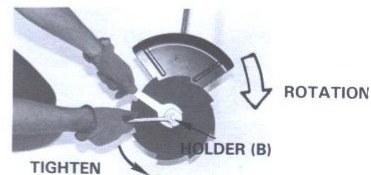


Fig. 30

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

- Connect the **STRING TRIMMER/BRUSH CUTTER** lower unit to the power unit as outlined under "attaching lower unit". (Page 2)

**Caution: 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 kickback could occur.**
- **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 brush and saw blades only for that cutting which is recommended. Brush blade-brush up to 3/8 in. diameter. Saw blade-tree limbs up to 3 in. diameter.**
- **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.**



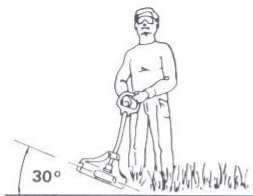


Fig. 31

**Caution:** Always use shoulder harness whenever blades are used.

## 2. Cutting Technique.

- Hold unit so the rotary head is at an approx. 30° angle to the ground.
- Do not force the unit, allow the very tip of the line to do the cutting.



Fig. 32

- Always operate unit with the correct line size (.080 dia.).
- Always use correct line length (max. 6.0, min. 2.0 inches).
- **Note:** As the cutting line wears down, engine speed (RPM) will increase. Allowing engine to run at excessive RPM (max. 8,500 RPM) for a prolonged period will shorten engine life.
- Cut from left to right with the engine at full throttle, so that clippings will be thrown away from you.

## 3. Extending line.

- As you perform your trimming tasks, the cutting line will wear shorter. It may be extended automatically, with engine running or manually, with engine stopped.
- **Engine running:** (at full speed) lightly tap (Do not pound) the rotary head on the ground. Line will advance approximately 1/2 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.
- **Warning:** 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.

## 4. To replenish line supply.

- Push in one of the locking tabs, releasing it from its notch (**Figure 33**) and pull on the rotary head cap.
- Once both locking tabs have released, lift rotary head cap off and remove spool.

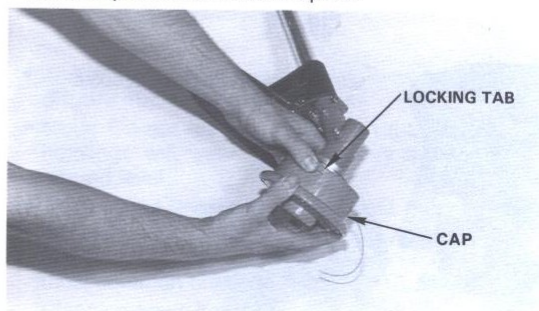


Fig. 33

- Cut a length of GREEN LINE that is .080 diameter and approximately 30 ft. long.
- Loop line through holes in spool and make certain that both lines are even (**Figure 34**).
- Hold spool as shown (**Figure 34**) and feed line on neatly by rotating the spool counterclockwise.  
**Note:** Do not wind line on, rotate the spool.

ROTATE SPOOL COUNTERCLOCKWISE

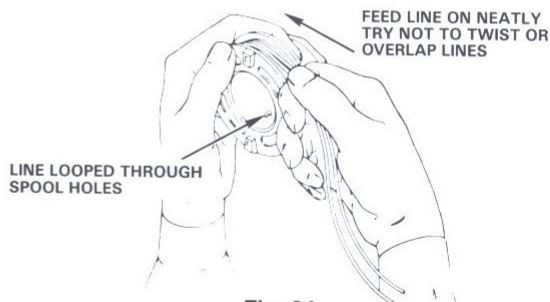
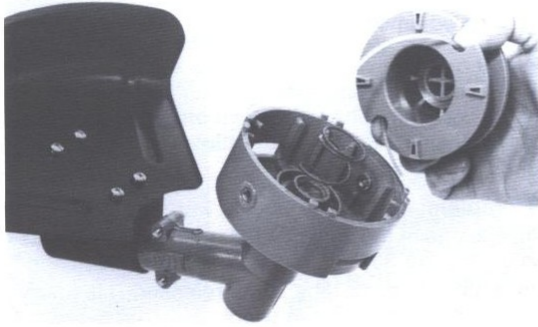


Fig. 34

- **Note:** Clean all dirt, dust, and grass out of rotary head, spool and head cap before reassembling.

- Once the line is on the spool, hold spool as shown in **(Figure 35)**, 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 36)**.

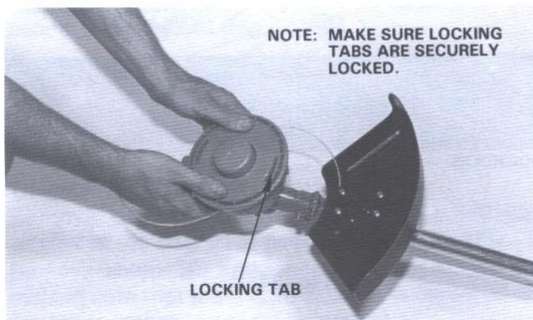


**Fig. 35**



**Fig. 36**

- Re-install rotary head cap by aligning locking tabs with their notches and pushing cap down until both locking tabs are securely seat **(Figure 37)**.
- Before operating unit check TFC by advancing some line manually, making sure lines are not trapped, and rotary head is assembled correctly.



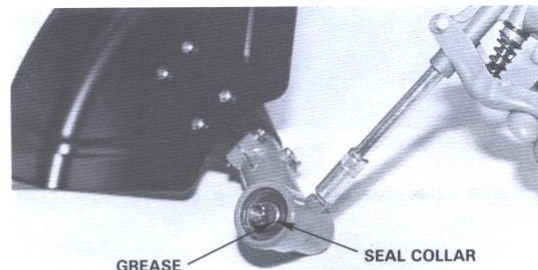
**Fig. 37**

## 5. Maintenance.

- Each 10 hours of use the gearcase must be regreased by first removing cutting head (or blade), blade holders and seal collar **(Figure 38)**.
- 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.**

### Safety

- Before each use inspect your **GREEN MACHINE** for loose or missing fasteners, broken or missing parts. If found, correct before use.
- Always wear approved safety goggles.
- Do not wear loose fitting clothes.
- Always wear long pants and long sleeve shirt.
- Never operate unit while bare foot, or wearing sandals.
- Always cut from right to left.
- Always keep all bystanders a minimum of 20 ft. away at all times.
- When using brush or saw blades, always use genuine **GREEN MACHINE** blades.
- Always use blade guard/head shield.
- Never use any type of wire in place of the nylon string.



**Fig. 38**





**2361 POWER BLOWER**  
(lower unit only)



**2360 POWER BLOWER**  
(with power unit)

**Fig. 39**

### 1. Assembly.

- This lower unit is fully assembled at the factory and requires no further assembly.
- Connect the power blower lower unit to power unit as outlined under "attaching lower unit". (Page 2)

### 2. Operation.

- Your power blower produces a strong air blast when operated at full speed and the amount of "air power" is directly controlled by the engine speed.
- So that you may become accustomed to the blower operation, start the engine (see "starting the engine") and let it warm up. At idle; you will find that no air is moving because the clutch is disengaged. As you gradually increase the engine speed to full, you will find that the "air power" increases also. You have a fully variable and controlled blast of air at your disposal.
- In many uses it is not necessary to use all the "air power" of your Blower and in fact is not advisable in some applications.
- When using the Blower in tight quarters such as corners of patios and garages, full speed is not usually required. A somewhat slower speed will do the same job effectively without the turbulence created by full speed operation. This turbulence only carries the blown material back into the corner and produces floating dust.

- The efficient use of the variable speed of your Blower will allow you to perform many sweeping tasks that were before very difficult and time consuming by conventional brooms and sweeping devices.
- You will find that it no longer is necessary to move objects to effectively clean around them. A simple blast from your Blower will move debris from those difficult to reach and often impossible to clean areas.



**Fig. 40**

- The correct handling of your Blower is shown in (Figure 40).
- **Note:** Do not drag or push it on the ground as the housings will wear quickly. Carry it slightly above ground level.

- The ground level air blast is ideal for practically all sweeping jobs. The many uses for your Power Blower can be left to your own imagination but a few of the most common ones are:

Cleaning grass from walkways after mowing or edging  
Sweeping or drying patios  
Cleaning driveways and parking lots  
Sweeping out garages and workshops  
Blowing out flower beds  
Leaf control in autumn

### 3. Maintenance.

- This lower unit is maintenance free except for an occasional check for debris that may have accumulated on top of the fan. A vibration during use is sure sign that something has become lodged in the fan. Stop the motor and remove it.

- **Note:** Do not remove the cable at any time as the Blower must be completely dis-assembled to install it.

#### **Safety**

- Before each use, inspect complete unit for loose or missing fasteners or parts. If found, correct before using.
- Always wear approved eye protection (safety goggles) when operating unit.
- When operating unit do not wear loose fitting clothes. Always wear long pants and long sleeve shirt.
- Never operate unit while bare foot or wearing open sandals.



- Keep bystanders at least 30 ft. away and never direct air blast towards any persons, animals or delicate objects.
- Keep air intake clear of debris.
- Always stay clear of air intake while blower is running.



**2371 WEEDER/  
CULTIVATOR**  
(lower unit only)

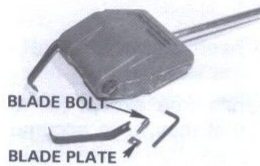


**2370 WEEDER/  
CULTIVATOR**  
(with power unit)

**Fig. 41**

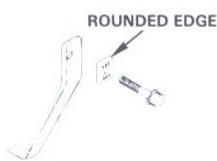
#### 1. Assembly.

- Install the blades exactly as shown in (Figures 42 - 44). Incorrect assembly will cause the blades to loosen during use.
- **Note:** The blade plates must be assembled with the rounded edges facing into the blade and the word "out" facing away from the blade (Figure 44).

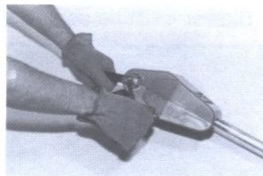


**Fig. 42**

**Fig. 43**



**Fig. 44**



**Fig. 45**

- Tighten the blade bolts as tight as possible using method shown in (Figure 45).

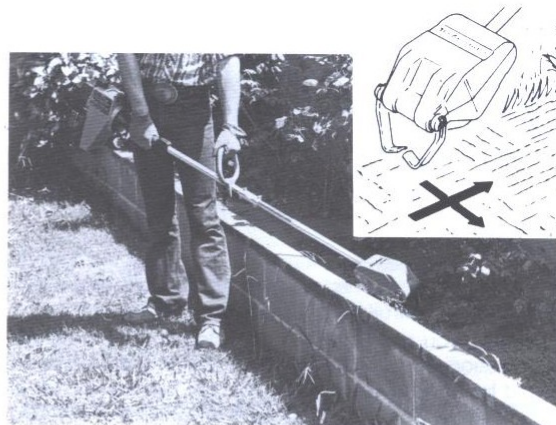
#### 2. Operation.

The Weeder/Cultivator will weed, cultivate and mix soil

**Caution: Blades must be checked periodically for tightness. A loose blade will cause internal damage.**

in difficult and hard-to-reach places with surprising accuracy and control. This tool provides a totally new time-saving method of weeding and cultivating that will enable you to work closely under and around trees, shrubs, flowers, sidewalks, and garden plants that once required the most careful manual work. As you learn the techniques of this new and versatile tool, more and more uses for it will arise.

- Always wet the soil (preferably the night before), when using your Weeder/Cultivator, as this will loosen the soil and make the job easier. **Remember this tool is not a tiller for rock hard soil, but a cultivator intended for soil maintenance use.**
- The more water you apply to the work area, the looser and easier the soil will be to work. The blades of your Weeder/Cultivator will not become clogged, even in the wettest soil conditions.
- Your Weeder/Cultivator should be used much like you would use a gardening hoe except that this tool does the work for you. With the least amount of pressure on the mid-handle, the blades will dig themselves into the soil.
- Then pull the unit toward you while it is digging beneath the soil's surface (Figure 46).



**Fig. 46**

- At the end of the pulling stroke, lift it slightly out of the soil and reach forward to begin another stroke with the unit still running. It is not necessary to idle the engine after each pass.
- After each pass, move to the right or left to begin your next pass. Continue making passes in the same direction until you have covered the area you wish to work.
- Usually it takes two passes in the same path to thoroughly mix the soil and cut the weed roots, so your first pass may look as if you haven't mixed the soil at all. However, your first pass has cut the soil cleanly beneath the surface, including all the weed roots.



- For best cultivating results, your second pass over the soil should be at a perpendicular angle to your first pass. When you have made two passes over your work area in a crisscross pattern (**Figure 46**), you have effectively mixed every inch of soil, and removed all the weeds at the same time.
- Your Weeder/Cultivator will effectively cultivate to a depth of 4<sup>3</sup>/<sub>4</sub>" (120.6 mm). The action of the blades will bring any cut off weeds (and their roots) to the surface to be raked away, leaving a professionally manicured look to your flower beds or garden.
- Soil not cultivated for a period of time will be harder to work the first time. Regularly maintained soil will be much easier to cultivate and will give you the time-saving benefits of your Weeder/Cultivator.
- Allow your Weeder/Cultivator to do the work for you. Forcing it will only wear out the operator and shorten it's life expectancy.
- In nearly all types of soil, it is not necessary to use full engine throttle since the cutting action is so efficient. It is not recommended to operate full throttle as engine and drivetrain life will be shortened. Partial throttle will usually be sufficient.

### 3. Maintenance.

- The Weeder/Cultivator is internally lubricated at the factory and should not need service. However if it is used daily or in extremely hard or dusty soil, it is recommended that new grease be supplied by first removing the (4) four upper cover screws, removing the cover and applying grease to the gears and other moving parts (**Figure 47**).
- Before and during each use the blades should be checked for tightness. Loose blades will result in damage to internal parts. Check all fasteners.



Fig. 47

#### Safety

Never allow children to operate the Weeder/Cultivator. It is not a toy. Never allow adults to operate unit without first reading the Operator's Manual.

- Keep the area of operation clear of all persons, particularly small children and pets.

- Dress Properly — Do not wear loose clothes or jewelry. They can be caught in moving parts. Always wear substantial footwear and long pants.
- Always be sure of your footing; keep a firm hold on the handles and walk, never run.
- Stop the motor whenever you leave the Weeder/Cultivator, or when making any repairs or inspections.
- When not in use, store your Weeder/Cultivator in a dry place out of the reach of children.
- Keep all fasteners tight to be sure the Weeder/Cultivator is in safe working condition. Follow maintenance instructions provided in this manual.
- If the Weeder/Cultivator should start to vibrate abnormally or become noisy, stop the motor and check immediately for the cause. Abnormal noise is generally a warning of trouble.
- Do not operate your **GREEN MACHINE** after it has been dropped or damaged. Return it to your nearest authorized service dealer for inspection and repair.  
Check the blade bolts for tightness before each usage.

### 3371 WEEDER/CULTIVATOR

(for Trimmer Models 2200, 2500, 3000)



Fig. 48

#### 1. Assembly.

- Remove gearcase/cutting head from the driveshaft. It is not necessary to remove cutting head first (**Figure 49**).
- Remove blade guard/debris shield and related brackets.

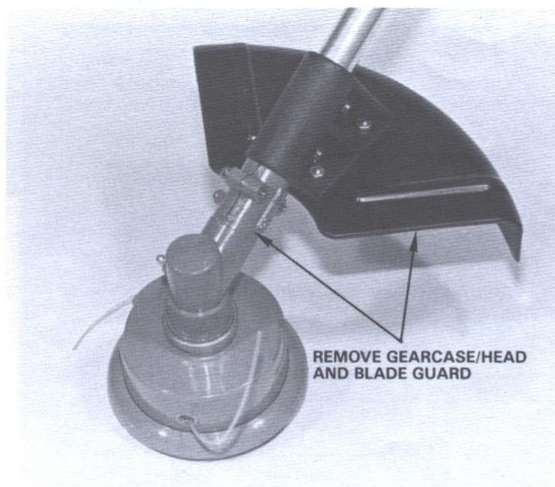


Fig. 49

- Loosen the (4) four allen head screws on bottom side of Weeder/Cultivator (**Figure 50**).
- Slide the Weeder/Cultivator onto the tube 2 1/2 inches till it stops.

ALLEN SCREWS  
(4)

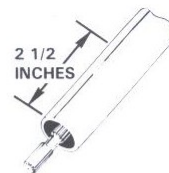
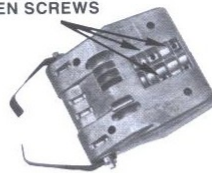


Fig. 50

- **Note:** The unit must slide onto the tube to the specified dimension to insure the full driveshaft engagement. If at first the tube doesn't engage far enough move the blades slightly until the driveshaft spline is aligned and the tube will slide into the housing the necessary distance.
- Position the Weeder/Cultivator head so that the green cover is up and horizontal with ground when the engine is resting on its stand.
- Re-tighten the (4) four allen screws.

For blade installation, operation, maintenance and safety instructions see the preceding 2370/237 section.