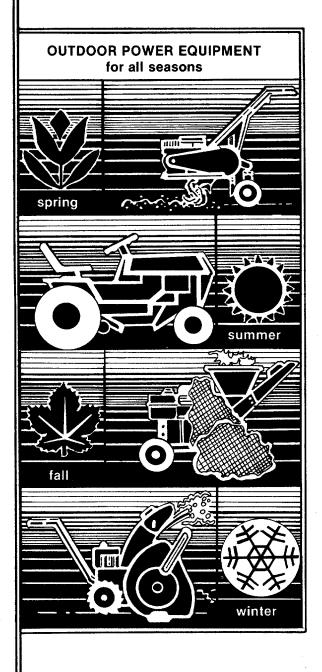
# OWNERSON



20" & 22" ROTARY MOWERS

Model Numbers 115-073-000 115-074-000 115-083-000 115-084-000

## Important:

Read Safety Rules and Instructions Carefully

Thank you for purchasing an American-built product.

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Instructions given with this symbol are for personal safety. Be sure to follow them.

## LIMITED WARRANTY

For one year from the date of original retail purchase, MTD PRODUCTS INC will either repair or replace, at its option, free of charge, F.O.B. factory or authorized service firm, any part or parts found to be defective in material or workmanship. Transportation charges for the movement of any power equipment unit or attachment are the responsibility of the purchaser. Transportation charges for any parts submitted for replacement under this warranty must be paid by the purchaser unless such return is requested by MTD PRODUCTS INC.

This warranty will not apply to any part which has become inoperative due to misuse, excessive use, accident, neglect, improper maintenance, alterations, or unless the unit has been operated and maintained in accordance with the instructions furnished. This warranty does not apply to the engine, motor, battery, battery charger or component parts thereof. Please refer to the applicable manufacturer's warranty on these items.

This warranty will not apply where the unit has been used commercially.

Warranty service is available through your local authorized service dealer or distributor. If you do not know the dealer or distributor in your area, please write to the Customer Service Department of MTD.

The return of a complete unit will not be accepted by the factory unless prior written permission has been extended by MTD.

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



This unit is equipped with an internal combustion engine and should not be used on or near any unimproved forest-covered, brush-covered or grass-covered land unless the engine's exhaust system is equipped with a spark arrester meeting applicable local or state laws (if any). If a spark arrester is used, it should be maintained in effective working order by the operator.

In the State of California the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands. A spark arrester muffler is available at your nearest engine authorized service center.



To reduce the potential for any injury, comply with the following safety instructions. Failure to comply with the instructions may result in personal injury.

## SAFE OPERATION PRACTICES FOR WALK-BEHIND MOWERS

#### **TRAINING**

- Read this owner's manual carefully in its entirety before attempting to assemble or operate this machine. Be completely familiar with the controls and the proper use of this machine before operating it. Keep this manual in a safe place for future and regular reference and for ordering replacement parts.
- Your rotary mower is a precision piece of power equipment, not a plaything. Therefore, exercise extreme caution at all times.
- Never allow children to operate a power mower. Only persons well acquainted with these rules of safe operation should be allowed to use your mower.
- No one should operate this unit while intoxicated or while taking medication that impairs the senses or reactions.
- 5. Keep the area of operation clear of all persons, particularly small children and pets. Stop engine when they are in the vicinity of your mower. Although the area of operation should be completely cleared of foreign objects, an object may have been overlooked and could be accidently thrown by the mower in any direction and cause serious personal injury to the operator or any others allowed in the area.

#### **PREPARATION**

- Thoroughly inspect the area where the equipment is to be used. Remove all stones, sticks, wire, bones and other foreign objects which could be picked up and thrown by the mower in any direction and cause serious personal injury to the operator or any others allowed in the area.
- 2. Do not operate equipment when barefoot or wearing open sandals. Always wear substantial footwear.
- 3. Do not wear loose fitting clothing that could get caught on the mower.
- 4. Check the fuel before starting the engine. Gasoline is an extremely flammable fuel. Do not fill the gasoline tank indoors, while the engine is running, or while the engine is still hot. Wipe off any spilled gasoline before starting the engine as it may cause a fire or explosion.
- Disengage the self-propelled mechanism or drive clutch on units so equipped before starting the engine.
- 6. The blade control handle is a safety device. Never attempt to bypass its operation. Doing so makes the safety device inoperative and may result in personal injury through contact with the rotating blade. The blade control handle must operate easily in both directions.
- Never attempt to make a wheel or cutting height adjustment while the engine is running.
- 8. Mow only in daylight or in good artificial light.
- Never operate the equipment in wet grass. Always be sure of your footing. A slip and fall can cause

serious personal injury. Keep a firm hold on the handle and walk, never run.

#### **OPERATION**

- Do not change the engine governor settings or overspeed the engine. Excessive engine speeds are dangerous.
- Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times as the rotating blade can cause injury.
- Stop the blade when crossing gravel drives, walks or roads.
- 4. After striking a foreign object, stop the engine, remove the wire from the spark plug, and thoroughly inspect the mower for any damage. Repair the damage before restarting and operating the mower.
- If the equipment should start to vibrate abnormally, stop the engine and check immediately for the cause. Vibration is generally a warning of trouble.
- 6. Shut the engine off and wait until the blade comes to a complete stop before removing the grass catcher or unclogging the chute. The cutting blade continues to rotate for a few seconds after the engine is shut off. Never place any part of the body in the blade area until you are sure the blade has stopped rotating.
- Before cleaning, repairing or inspecting, make certain the blade and all moving parts have stopped.
   Disconnect the spark plug wire, and keep the wire away from the spark plug to prevent accidental starting.
- 8. Do not run the engine indoors.
- Mow across the face of slopes, never up-and-down. Exercise extreme caution when changing direction on slopes. Do not mow excessively steep slopes. Always be sure of your footing. A slip and fall can cause serious personal injury.
- Always disconnect electric mowers (line operated) before cleaning, repairing or adjusting.
- Never operate mower without proper guards, plates or other safety protective devices in place.

#### **MAINTENANCE AND STORAGE**

- Check the blade and engine mounting bolts at frequent intervals for proper tightness.
- 2. Keep all nuts, bolts, and screws tight to be sure the equipment is in safe working condition.
- Never store the equipment with gasoline in the tank inside of a building where fumes may reach an open flame or spark. Allow the engine to cool before storing in any enclosure.
- To reduce fire hazard, keep the engine free of grass, leaves, or excessive grease.
- Check the grass catcher bag frequently for wear or deterioration. For safety protection, replace only with new bag meeting original equipment specifications.

## **SAFE OPERATION PRACTICES (Continued)**

#### **BLADE BRAKE/CLUTCH MAINTENANCE**

NOTE: Any required repair work on the blade brake/clutch should be performed by an authorized service dealer. If you cannot locate an authorized service dealer, contact the manufacturer as set forth on your copy of the Owner's Registration Card.

- The blade brake/clutch hand control is a safety device. Never attempt to bypass its operation. Doing so makes the safety device inoperative and may result in personal injury through contact with the rotating blads. This hand control must operate freely in both directions.
- Striking a solid object can cause damage to the blade brake/clutch or to the engine crankshaft. Extensive vibration of the mower during operation is an indication of damage and the

unit should be promptly inspected and repaired.

- 3. A leak in the lower engine crankshaft oil seal could expose the blade brake/clutch friction pads to excess oil resulting in blade or brake slippage, which could increase the stopping time of the blade. Oil collection on the floor beneath the mower during storage may be an indication of an oil seal leak. The unit should be checked by an authorized service dealer.
- 4. Periodically inspect the inner control cable in the area where it attaches to the hand control. If the cable becomes frayed, it could cause the blade brake/clutch to operate improperly. Also, be careful to avoid pinching the blade brake/clutch control cable when storing the handle.



This unit is shipped WITHOUT GAS-OLINE or OIL. After assembly, see separate engine manual for proper fuel and engine oil recommendations.

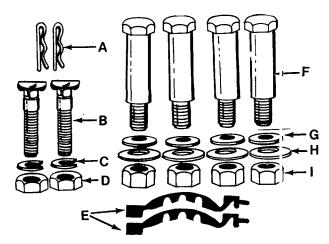


FIGURE 1.

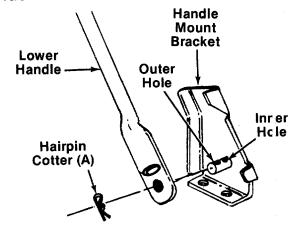


FIGURE 2.

#### **ASSEMBLY**

#### Contents of hardware pack: (See figure 1)

- A (2) Hairpin Cotters
- B (2) Curved Carriage Bolts 1.38" Long
- C (2) Lock Washers 5/16" I.D.
- D (2) Hex Nuts 5/16-18 Thread
- E (2) Cable Ties
- F (4) Shoulder Bolts\*
- G (4) Belleville Washers 3/8" I.D. x 7/8" O.D.\*
- H (4) Belleville Washers 3/8" I.D. x 1-1/8" O.D.\*
- (4) Hex Nuts 3/8-16 Thread\*

\*Units with wheels not assembled.

- Remove the lawn mower, loose parts, hardware pack and literature from the carton. Make certain all parts and literature have been removed before the carton is discarded.
- Extend the throttle control cable (attached to the upper handle) and the blade brake/clutch cable (attached to the blade brake/clutch beneath the deck) and place on the floor. Be careful not to bend or kink control cables.
- Place lower handle in position over weld pins in handle mount brackets on deck. Make certain the instruction label on the lower handle can be read from the operating position. Secure by placing two hairpin cotters (A) in inner hole on weld pins. See figure 2.



It may be necessary to bend the ends of the lower handle outward slightly to obtain a snug fit against the bracket.



There are two (2) holes in the handle mount brackets. Place hairpin cotter in the inner hole for operation. The outer hole is for storage.

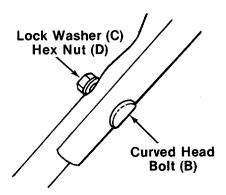


FIGURE 3.

Place upper handle in position over lower handle. Control housing should be on the left side of the handle. Secure upper handle with two curved carriage bolts (B), lock washers (C) and hex nuts (D). See figure 3.



Reference to left or right side of machine is determined from operator's position at the handle facing forward.

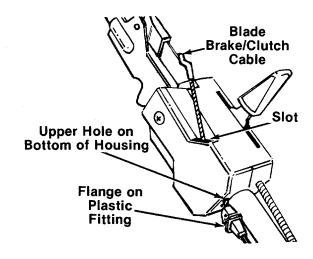
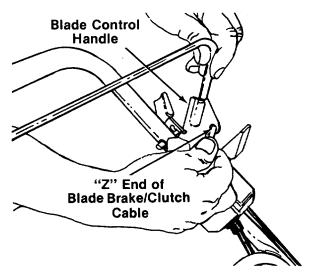


FIGURE 4.

5. Route the blade brake/clutch cable under the lower handle. Place end of cable into the upper hole on the bottom of the control housing, and through the slot on the side of the housing as shown. The angle of the flange on the plastic fitting must be positioned downward—as shown in figure 4. Be careful not to bend or kink the cable.

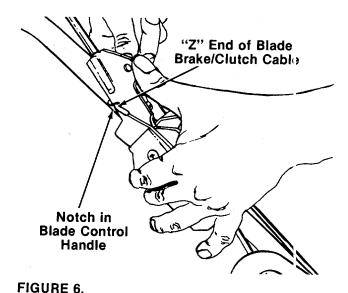


The cable must be assembled as shown for proper blade brake/ clutch operation.



- Snap the plastic fitting on the end of the cable into the control housing.
- Hook the "Z" end of the blade brake/clutch cable into the hole in the blade brake/clutch—control handle. See figure 5. If additional slack is needed in order to hook the cable into the handle, proceed as follows.

FIGURE 5.



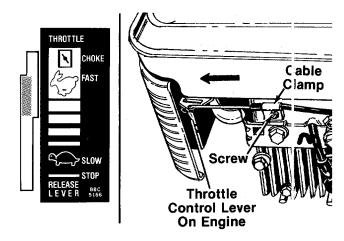


FIGURE 7.

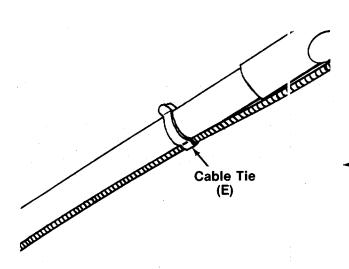


FIGURE 8.

- a. Hook the "Z" end of the cable into notch provided in the blade control handle. See —figure 6.
- b. Push release lever (see figure 12), then squeeze blade control handle against upper handle.
- c. Release the blade control handle, unhook the cable from the notch and hook it into the hole in the blade control handle.
- 8. Move throttle control lever on handle forward until it stops in "Fast" position (**do not** push all the way forward to "Choke" position). See figure 7.
- 9. Slide the throttle control lever on the engine as far toward the outside of the engine as it will go easily as shown in figure 7. (Do not force it into the extreme outside position, which is the "Choke" position).
- Hook the "Z" end of the throttle control cable into the hole in the control lever on the engine.
- 11. Loosen the screw on the cable clamp shown in figure 7. Slip the control casing under the clamp. With the throttle lever on the engine still in the "Fast" position, tighten the screw to secure the throttle control cable. Be certain the clamp is positioned so it holds the cable in a straight line, parallel to the engine shroud.
- 12. Loosen the screw on the clamp on the side of the engine. Secure the cable away from the muffler. Be careful not to bend or kink the cable. Tighten the screw.
- 13. Secure throttle control cable and blade brake/clutch cable to upper and lower handles with cable ties (E) provided. See figure 8.

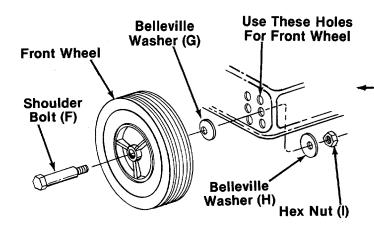


FIGURE 9.

14. Units without height adjustment brackets—If the wheels on your mower are not already assembled, proceed as follows. The front wheels must be assembled in one of the three holes nearest the front of the deck. See figure—9. The rear wheels must be assembled in one of the three holes nearest the rear of the deck.

The three holes provide three cutting heights for your mower. Use the same hole location for all four wheels when assembling. If wheels are to be assembled in the lowest cutting position (highest hole in the deck), refer to the note below.

To assemble the wheels (see figure 9):

- A. Place shoulder bolt (F) through wheel.
- B. Place one believille washer 7/8" O.D. (G) on shoulder bolt, with the cupped side of washer toward the deck (away from wheel).
- C. Secure wheel to deck with one belleville washer 1-1/8" O.D. (H) on the inside of the deck (cupped side against the deck) and hex nut (I).



If the lowest cutting position (highest hole in the deck) is used, it is necessary to place the 1-1/8" washer on the outside of the deck and the 7/8" washer on the inside.

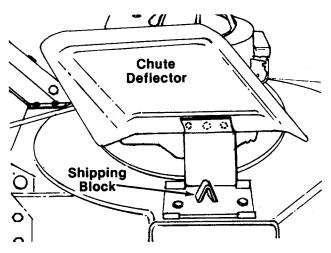


FIGURE 10.

15. Check all nuts and bolts for correct tightness.



#### CAUTION

Please note that the chute deflector on your mower is in an upright position. It is held in that position by a shipping block. This block is used for shipping purposes only. It must be removed and discarded before your mower is put into operation. —See figure 10.

## **CONTROLS**

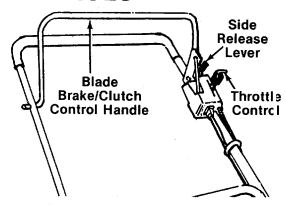


FIGURE 11.

#### THROTTLE CONTROL

The throttle is located on the right side of I andle. It controls engine speed. See figure 11.

#### **BLADE BRAKE/CLUTCH CONTROL**

## WARNING THIS CONTROL MECHANISM IS A SAFETY DEVICE. NEVER ATTEMPT TO BYPASS ITS OPERATIONS

The blade brake/clutch control is located on the upper handle of the mower. The clutch handle engages and disengages the blade.

To engage the blade, pull the side release lever away from the unit. See figure 11. Pull the clutch control handle against the upper handle. Release side lever.

Release the clutch control handle to stoo the blade from turning.

## **OPERATION**



FIGURE 12.

Keep hands and feet away from the chute area on cutting deck. See figure 12.



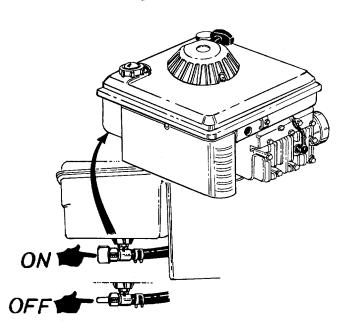
For shipping purposes your mower is set with the wheels in a low cutting height position. For best results raise the cutting position until it is determined which height is best for your lawn. See cutting height adjustment.

#### **BEFORE STARTING**

- Fill sump with oil, as instructed in the separate engine manual packed with your unit.
- Fill fuel tank, using clean, fresh, lead-free, low-lead or regular grade leaded gasoline. Fill tank completely!

DO NOT MIX OIL WITH GASOLINE.

- 3. Attach spark plug wire to spark plug.
- 4. Open fuel shut-off valve, located beneath the fuel tank. See figure 13.



#### FIGURE 13.

#### START ENGINE

- 1. Move throttle control lever to "START" position.
- With the blade brake/clutch control released, crank engine by pulling recoil starter with a quick firm pull. Do not pull out so far that rope stops with a jerk as this will cause rope failure. Do not allow rope and handle to snap back into place.

3. After two or three full firm pulls on recoil, or as soon as engine starts, move throttle control to desired engine speed.

#### TO STOP ENGINE

- 1. Move throttle control lever to "STOP" position.
- Disconnect spark plug wire from spark plug and ground against the engine to prevent accidental starting while equipment is unattended.

#### TO ENGAGE THE BLADE

- Start engine as instructed above. Allow the engine to warm up for one minute before attempting to engage the blade.
- To engage the blade, pull the side release lever away from the unit. Pull the blade brake/clutch control handle down against the upper handle. Release the side lever. See figure 11.



If a warm engine falters or stalls when attempting to engage the blade, refer to Carburetor Adjustment Section of this owner's manual.

Release the blade brake/clutch control handle to stop the blade from turning.



Always release the blade brake/ clutch control handle before stopping the engine. If the engine begins to stall, release the blade brake/ clutch control handle immediately.

Should the engine stall with the blade brake/clutch control in the operating position (control handle **not** released), difficulty may be encountered in pulling the starter rope to restart the engine. Proceed as follows.

- Disconnect the spark plug wire from the spark plug.
- 2. Move the throttle lever to STOP position.
- 3. Hold the blade brake/clutch control in the engaged position.
- 4. While holding the blade brake/clutch control handle in this position, pull the starter rope.
- 5. As the starter rope is being pulled, release the blade brake/clutch control handle.

The starter rope should now operate correctly. Reconnect the spark plug wire for normal operation.

#### **USING YOUR ROTARY MOWER**

Be sure that lawn is clear of stones, sticks, wire, or other objects which could damage lawn mower or engine. Such objects could be accidently thrown by the mower in any direction and cause serious personal injury to the operator and others.

Operate a new engine at intermediate speeds and light load for the first few hours as you would a new automotive engine.

For best results, do not cut wet grass because it tends to stick to the underside of the mower, preventing proper discharge of grass clippings, and could cause you to slip and fall. New grass, thick grass or wet grass may require a narrower cut. Blade speed should be adjusted to the condition of the lawn.

The best mowing pattern is one that allows the clippings to discharge towards the uncut part of the lawn. This permits recutting of the clippings to further pulverize them. When cutting high weeds, discharge towards cut portion, then recut at right angles to first direction.

For best results, cut off one-third or less of the total length of the grass. Lawn should be cut in the fall as long as there is growth.

This mower is designed to be operated at full throttle to give you the best cut and do the most effective job of bagging the cut grass.



If you strike a foreign object, stop the engine. Remove wire from spark plug, thoroughly inspect the mower for any damage, and repair the damage before restarting and operating the mower.

Striking a solid object can cause damage to the blade brake/clutch or to the engine crankshaft. Extensive vibration of the mower during operation is an indication of damage. The unit should be promptly inspected and repaired.

## **ADJUSTMENTS**



Do not at any time make any adjustment to lawn mower without first stopping engine and disconnecting spark plug wire.

## CUTTING HEIGHT ADJUSTMENT Units With Height Adjustment Brackets

An adjusting plate and thumb lever at each wheel position provides cutting height adjustment. Each adjusting plate has nine height positions. Height of cut will be changed when the thumb lever is moved from one position to another. Simply depress thumb lever towards wheel and move wheel and lever assembly to desired position. All wheels must be placed in the same relative position. See figure 14.

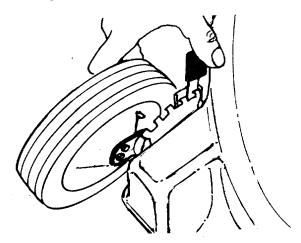


FIGURE 14.

#### **Units Without Height Adjustment Brackets**

Adjustment may be made by removing and moving axle bolts to desired position. Cutting heights will be raised as axle bolts are moved to a lower hole and lowered as axle bolts are moved to a higher hole in the deck. All axle bolts must be mounted in the same relative position. The front wheels must be assembled in one of the three holes rearest the front of the deck. The rear wheels must be assembled in one of the three holes nearest the rear of the deck. Belleville washers must be assembled on the inside and outside of the deck so that the cupped side of the washers are against the deck. Refer to assembly instructions on page 7.

#### **THROTTLE**

If adjustment becomes necessary, the throttle control wire assembly can be reset as follows:

- Loosen, but do not remove, screw securing throttle control wire assembly at engine. Refer to figure 7.
- 2. Move throttle control lever on handle to "FAST" position.
- Move control lever on engine to full open position. Retighten screw to secure throttle control wire assembly.

#### **CARBURETOR ADJUSTMENTS**



If any adjustments are made to the engine while the engine is running (e.g. carburetor), disengage all clutches and blades. Keep clear of all moving parts. Be careful of heated surfaces and muffler.

Minor carburetor adjustment may be required to compensate for differences in fuel, temperature, altitude and load. Refer to the separate engine manual packed with your mower.



If a warm engine falters or stalls when attempting to engage the blade, the carburetor mixture should be adjusted 1/8 turn richer (counterclockwise). See figure 15.

The carburetor should be adjusted with the air cleaner in place and the blade control handle in the blade disengaged position.

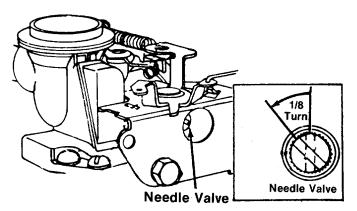


FIGURE 15.

## LUBRICATION



Always stop engine and disconnect spark plug wire before cleaning, lubricating or doing any kind of work on lawn mower.

Blade Brake/Clutch—Lubricate the pivot points on the blade brake/clutch handle and the cable at least once a season with light oil. The control must operate freely in both directions.

Chute Deflector—The torsion spring and pivot point should be lubricated periodically with light oil to prevent any rust or binding. Deflector must work freely.

Wheels—Mower may be provided with ball bearing wheels. Lubricate at least once a season with light oil. Also, if the wheels are removed for any reason, lubricate the surface of the axle bolt and the inner surface of the wheel with light oil. A 4 oz. plastic bottle of light oil lubricant is available. Order part number 737-0170. Engine oil may also be used.

**Engine**—Follow engine manual for lubrication instructions.

Throttle—Periodically lubricate throttle control lever and throttle wire assembly with a few drops of light oil for ease of operation.

## **MAINTENANCE**



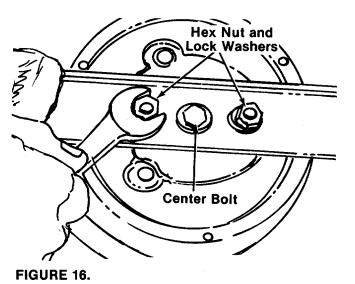
Be sure to disconnect and ground the spark plug wire before performing any repairs or maintenance.



When tipping the unit, empty the fuel tank and keep engine spark plug side up.

#### **CUTTING BLADE**

To remove the cutting blade for sharpening or replacement, remove the two hex nuts and lock washers which hold the blade to the blade brake/clutch. See figure 16.



When sharpening the blade, follow the original angle of grind as a guide. It is extremely important that each cutting edge receives an equal amount of grinding to prevent an unbalanced blade. An unbalanced blade will cause excessive vibration when rotating at high speeds, may cause damage to the mower and could break, causing personal injury.

The blade can be tested for balance by balancing it on a round shaft screwdriver. Remove metal from the heavy side until it balances evenly.

When replacing the blade, be sure to install the blade with the side of the blade marked "Bottom" (or with part number) facing the ground when the mower is in the operating position.

#### **Blade Mounting Torque**

Make certain that the center bolt which secures the blade brake/clutch and the two hex nuts which secure the blade are tightened to between 350 inch pounds (minimum) and 600 inch pounds (maximum).

To insure safe operation of your unit, all nuts and bolts must be checked periodically for correct tightness.

#### **DECK**

The underside of mower deck should be cleaned after each period of use as grass clippings, leaves, dirt and other matter will accumulate. This accumulation of grass clippings, etc., is undesirable as it will invite rust and corrosion and may cause an uneven discharge of grass clippings at the next cutting.

The deck may be cleaned by tilting the mower forward or on its side and scraping clean with a suitable tool or by washing with a stream of water from a garden hose.



Do not direct the stream of water at a hot engine as damage to the engine may result.

#### **ENGINE OIL**

Check oil level before starting and after every 5 hours of operation. ADD oil as necessary to keep level to full mark on dipstick. Before removing dipstick, clean area around dipstick to prevent dirt from entering oil fill tube. Engine should be in a level position when checking oil.

Change oil after first 5 hours of operation. Thereafter change every 25 hours. Change oil while engine is warm. Oil may be drained thru oil fill opening by tipping the unit on its side. Oil capacity 1-1/4 pints.

#### AIR CLEANER

Service air cleaner every 25 hours under normal conditions. Clean every few hours under extremely dusty conditions. Poor engine performance and flooding usually indicates that the air cleaner should be serviced.

To service air cleaner, refer to the separate engine manual packed with your mower.

#### **SPARK PLUG**

The spark plug should be cleaned and the gap reset once a season. Spark plug replacement is recommended at the start of each moving season; check engine manual for correct plug type and gap specifications.

#### **BLADE BRAKE/CLUTCH**

This unit is equipped with a blade brake/clutch. If for some reason the blade brake/clutch becomes inoperative, it is suggested that all repair work on the blade brake/clutch be performed by an authorized service dealer. The unit should be inspected by an authorized service dealer if any of the following conditions are noticed.

- 1. Frayed clutch control cable.
- 2. Leaking oil seal (oil collection on the floor during mower storage).
- 3. Extensive vibration of the unit.

#### Blade Brake/Clutch Removal

- Disconnect the spark plug wire and ground it against the engine block.
- 2. Empty fuel tank and drain oil from crankcase.
- 3. Remove the cable ties which secure control cables to the handle.
- 4. Disconnect the "Z" fitting on the blade brake/clutch cable from the clutch control handle.
- 5. Remove one truss machine screw on the inside of the control housing as shown in figure 17.
- 6. Loosen the truss machine screw on the outside of the control housing until the two halves of control housing can be separated enough for the control cable to be freed. Slide the blade brake/clutch cable out of the control housing.
- 7. Retighten the truss machine screws or the control housing.

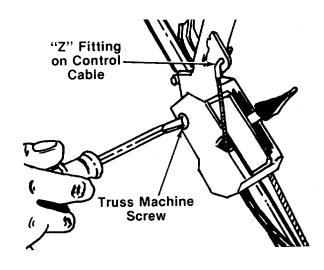


FIGURE 17.

- 8. Disconnect the throttle control cable from the engine by loosening screw on engine and disconnecting the "Z" fitting. Refer to figure 7.
- Tip the mower on its side. Remove the blade by removing two hex nuts and lock washers. Refer to figure 16.

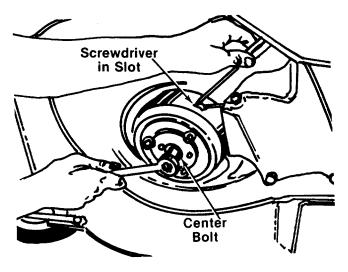


When reassembling, tighten hex nuts to between 350 and 600 in. lbs.

- 10. Remove the center bolt as follows.
  - a. Insert a screwdriver into the slot provided in the blade brake/clutch housing where the control cable enters housing. See figure 18.
  - b. Place a 9/16" wrench on the center bolt. Turn the wrench slowly until the screw-driver catches in a groove provided inside the clutch. The screwdriver will now keep the clutch from turning, and the center bolt and two belleville washers may be removed.

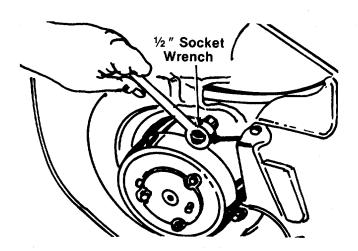


Upon reassembly, be certain to tighten center bolt to between 350 and 600 in. lbs.



#### FIGURE 18.

11. Support the engine with one hand. Remove the three self-tapping screws which secure the deck and blade brake/clutch to the engine. A ½" socket wrench is required. See figure 19.



#### FIGURE 19.

- Slide the blade brake/clutch cable through the hole in the deck as you lift off the engine and blade brake/clutch. Be careful not to kink control cable.
- 13. Remove blade brake/clutch from engine crankshaft.

#### Blade Brake/Clutch Installation

- 1. Place the new blade brake/clutch on engine crankshaft. Line up holes on blade brake/clutch with mounting holes on engine.
- Place the two belleville washers onto crankshaft. Cupped side of washers must be against the blade brake/clutch. Secure with hex bolt finger tight only.

- 3. Place cable through engine mounting hole on deck.
- 4. Reverse steps 1 through 12 of preceding section for reassembly.

## OFF-SEASON STORAGE

The following steps should be taken to prepare lawn mower for storage.

- 1. Clean and lubricate mower thoroughly as described in the lubrication instructions.
- 2. Refer to engine manual for correct engine storage instructions.
- 3. Coat mower's cutting blade with chassis grease to prevent rusting.
- 4. Store mower in a dry, clean area.



NOTE

When storing any type of power equipment in an unventilated or metal storage shed, care should be taken to rustproof the equipment. Using a light oil or silicone, coat the equipment, especially the bearings and cables.

## HANDLE STORAGE

The handle can be stored in an upright position to take less space. Move hairpin cotters to outer hole on weld pins (see figure 2). Grasp the lower handle at the bottom and push inward slightly. Tip the handle forward. It will lock in this position. Reverse this procedure to place the handle in the operating position.



Be careful not to kink or pinch blade brake/clutch cable when storing the handle.



The use of any accessory on this Rotary Mower other than those manufactured by the mower manufacturer is **not** recommended.

GRASS CATCHER Model 065 is available as optional equipment for the mower shown in this manual.



- 1. DO NOT operate the mower without the entire grass catcher or chute deflector in place.
- 2. DO NOT operate the mov/er without the protective shield on the rear of the deck in place.



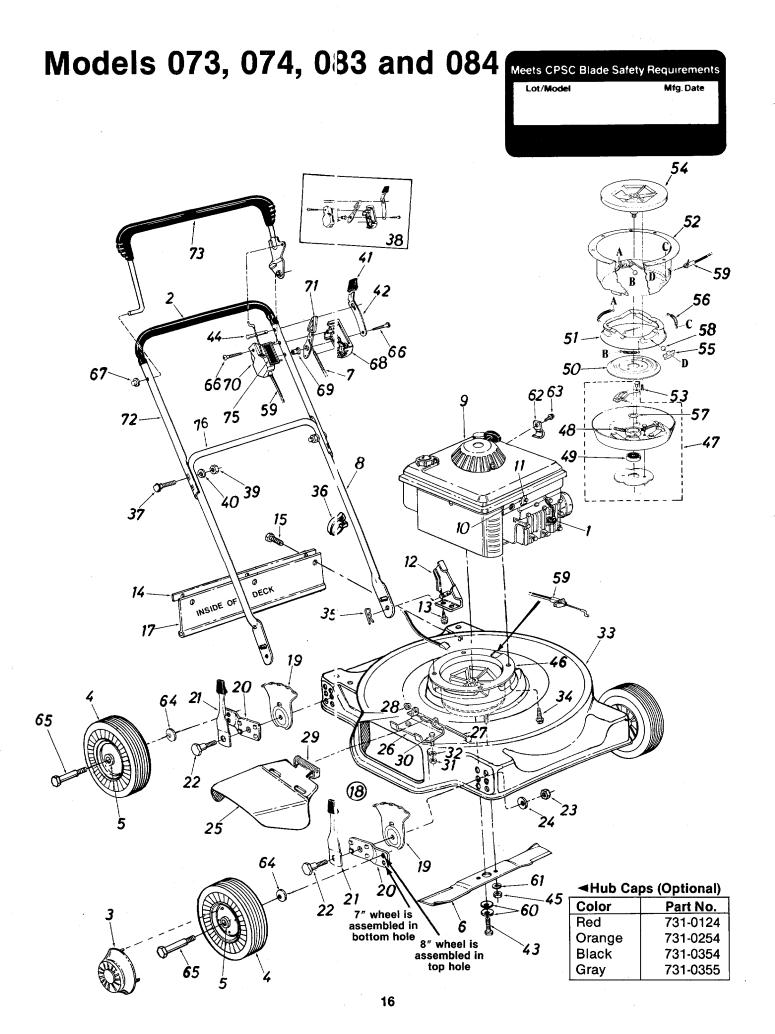
Under normal usage bag material is subject to wear and should be checked periodically. Be sure any replacement bag complies with the mower manufacturer's recommendations.

For replacement bags, use only factory authorized replacement bag No. 764-0217.

## **Trouble Shooting Chart**

Trouble Shooting C	, indic		
Cause	Remedy		
A Check fuel tank for gas B Fuel shut-off valve closed C Spark plug lead wire disconnected D Throttle control lever not in the starting position E Faulty spark plug  F Carburetor improperly adjusted, engine flooded	<ul> <li>A Fill tank if empty.</li> <li>B Open fuel shut-off valve.</li> <li>C Connect lead wire.</li> <li>D Move throttle lever to start position.</li> <li>E Spark should jump gap between control electrode and side electrode. If spark does not jump, replace the spark plug.</li> <li>F Remove spark plug, dry the plug, crank engine with plug removed, and throttle in off position. Replace spark plug and lead wire and resume starting</li> </ul>		
G Old stale gasoline	procedures.  G Drain and refill with fresh gasoline.		
A Spark plug wire loose     B Carburetor improperly adjusted     C Dirty air cleaner	<ul> <li>A Connect and tighten spark plug wire.</li> <li>B Adjust carburetor. See separate engine manual.</li> <li>C Clean air cleaner as described in separate engine manual.</li> </ul>		
<ul> <li>A Dirt in gas tank</li> <li>B Dirty air cleaner</li> <li>C Water in fuel supply</li> <li>D Vent in gas cap plugged</li> <li>E Carburetor improperly adjusted</li> </ul>	<ul> <li>A Remove the dirt and fill tank with fresh gas.</li> <li>B Clean air cleaner as described in separate engine manual.</li> <li>C Drain contaminated fuel and fill tank with fresh gas.</li> <li>D Clear vent or replace gas cap.</li> <li>E Adjust carburetor. See separate engine manual.</li> </ul>		
A Carburetor idle speed too slow     B Spark plug gap too close     C Carburetor idle mixture adjustment improperly set	<ul> <li>A Adjust carburetor. See separate engine manual.</li> <li>B Adjust to .030".</li> <li>C Adjust carburetor. See separate engine manual.</li> </ul>		
A Spark plug fouled, faulty, or gap too wide     B Carburetor improperly adjusted     C Dirty air cleaner	<ul> <li>A Reset gap to .030" or replace spark plug.</li> <li>B Adjust carburetor. See separate engine manual.</li> <li>C Clean air cleaner as described in separate engine manual.</li> </ul>		
A Carburetor not adjusted properly     B Air flow restricted  C Engine oil level low	<ul> <li>A Adjust carburetor. See separate engine manual.</li> <li>B Remove blower housing and clean as described in separate engine manual.</li> <li>C Fill crankcase with the proper oil.</li> </ul>		
A Cutting blade loose or unbalanced     B Bent blade	A Tighten blade. Balance blade.  B Replace blade.		
	A Check fuel tank for gas B Fuel shut-off valve closed C Spark plug lead wire disconnected D Throttle control lever not in the starting position E Faulty spark plug  F Carburetor improperly adjusted, engine flooded  G Old stale gasoline  A Spark plug wire loose B Carburetor improperly adjusted C Dirty air cleaner  A Dirt in gas tank B Dirty air cleaner  C Water in fuel supply D Vent in gas cap plugged E Carburetor improperly adjusted A Carburetor idle speed too slow B Spark plug gap too close C Carburetor idle mixture adjusted A Carburetor idle mixture adjustment improperly set  A Spark plug fouled, faulty, or gap too wide B Carburetor improperly adjusted C Dirty air cleaner  A Carburetor not adjusted properly B Air flow restricted  C Engine oil level low  A Cutting blade loose or unbalanced		

Note: For repairs beyond the minor adjustments listed above, contact your local service center.



	PARTS LIST FOR MODELS 073, 074, 083 AND 084 ROTARY MOWERS								
REF. NO.	NO.	COLOR CODE	DESCRIPTION	NEW PART		NO.	CODE	DESCRIPTION	NEW PART
1	735-063		Spark Plug Boot		40	736-011	9	L-Wash. 5/16" I.D.*	
2	718-014	5	Grip†		41	720-019	0	Spring Lever Knob	
3	◀		Hub Cap		42	732-040	1	Lock Out Spring	
4	**		Wheel Ass'y. Comp.		43	710-081	8	Hex Cent. L- Bolt 3/8-24	
5	**		Bearing					x 2.00" Lg.	1.
6	742-022	20	20" Blade (073 & 074)		44	711-071	9	Lock Pin .75" Dia. x 1.80	
	742-022	2	22" Blade (083 & 084)		45	712-032		Special Hex Nut 5/16-24 Thd.	
7	746-047	4	Throttle Control Wire—53"	}	46	717-048		Blade Brake Clutch Ass'y.	
8	749-037	3	Lower Handle (Chrome)					Comp.	
	749-037	2	Lower Handle (Painted)		47	14300		Clutch Blade Housing Ass'y.	
9			Engine `		48	732-039	6	Comp. Spring .35" O.D. x	
10	751-033	3	Casing Clamp		'-		•	2.00" Lg.	
11	710-089		Hex Sems Scr. #10-32 x		49	741-012	4	Ball Brg669" I.D. x 1.574"	İ
			.62" Lg.				•	O.D.	
12	12935		Handle Mount Brkt. Ass'y.—		50	14304		Clutching Cone	
			L.H.		51	14305		Brake Cup Cone	
Ì	12936		Handle Mount Brkt. Ass'y.—		52	14306		Clutch Housing	
			R.H. (Not Shown)		53	710-087	5	Hex Wash. TT-Tap ClScr.	
13	710-060	3	Hex Wash. Hd. B-Tap Scr.		00	7 10 007	0	1/4-20 x .75" Lg.	
'		•	5/16-18 x .50" Lg.		54	719-025	6	Fan Adapter	
14	14846		Retaining Strip	N	55			Ball Block	
15	710-077	6	Hex Wash. Hd. AB-Tap Scr.	' '	56	732-039		Extension Spring .35" O.D. x	
.	1.10071	•	1/4" x .62" Lg.		30	702-009	′		1
17	731-057	5	Rear Flap Ass'y.		57	736-033	3	1.75" Lg.  FI-Wash690" I.D. x 1.060"	
18	14578	Ŭ	Height Adj. Ass'y.—R.H.†		31	730-033	3	O.D.	
.0	14579		Height Adj. Ass'y.—L.H.†	1	58	741-0326	2		-
	14070		(Not Shown)		59	746-0402		Steel Ball .500" Dia.	
19	15261		Height Adj. Plate†		60			Clutch Cable—42"	
20	15262		Pivot Bar†	1	00	736-0105		Bell-Wash400" I.D. x .88"	
21	14832		Spring Lever w/Knob†		61	736-0169	`	O.D.	
22	738-050	7	Shid. Bolt .500" Dia. x .375†		62	12894	7	L-Wash. 3/8" I.D.*	
23	712-079		Hex Nut 3/8-16 Thd.*		63	710-0429	3	Casing Clamp	
24	736-033		Bell-Wash39" I.D. x 1.13"	1	64	736-0105		Hex B-Tap Scr. 10 x .38" Lg.	
	100 000	•	O.D. (073 & 083)		04	730-0103	נ	Bell-Wash400" I.D. x .88"	
	736-035	6	Bell-Wash39" I.D. x 1.4"		65	738-0213	,	O.D.	
	700 000	•	O.D. (074 & 084)		03	730-0213	י	Axle Bolt (Used w/o Height	
25	14944		Chute Deflector Ass'y. Comp.			729 0104		Adj.)	į
26	11130		Deflector Hinge Plate			738-0102	<del>-</del>	Axle Bolt (Used w/Height	
27	711-055	5	Pivot Pin		66	710-0796	,	Adj.)	
28	726-010		Cap Speed Nut 1/4" Rod		00	1 10-01 90	,	Truss Mach. Hi-B Tap Scr.	
29	732-025		Torsion Spring		67	726-0135		#12 x 1.50" Lg.	
30	710-028		Hex Bolt 1/4-20 x .50" Lg.*		68			Cap Speed Nut 5/16" Rod	
31	712-028		Hex Nut 1/4-20 Thd.*		69	731-0523		Control Panel Half	
32	736-032		L-Wash. 1/4" I.D.*			731-0524		Control Disc Pin	
33	16300	•	20" Deck Ass'y.	N	70	731-0526		Clutch Panel Half	
35	16302	j	22" Deck Ass'y.	N	71 72	731-0528		Throttle Control Lever	
34	710-065	4	Hex Wash. Hd. TT-Tap Scr.	"	12	749-0536		Upper Handle (Chrome)	
~~	, 10-000	<b>っ</b>	3/8-16 x 1.00" Lg.		70	749-0538		Upper Handle (Painted)	
35	714-010	<u>,</u>	Intern. Cot. Pin 5/16" Dia.		73	731-0609		Control Handle Ass'y.	
36	726-019		Cable Tie		75	777-5166		Control Label—Throttle	N
37	710-067		Curved Carriage Bolt 5/16-18		76	777-3453		Instruction Label—Handle	
"	/ 10-00/	'	x 1.38" Lg.		-	8073-000		Hardware Pack (073)	
38	753-036	4	Kit—Control Housing Comp.		-	8074-000	r-5	Hardware Pack (074, 083 &	
39	712-026		Hex Nut 5/16-18 Thd.*					084)	
_ טט	112-020	1	HEA MULUMONO HIU.	لــــــــــــــــــــــــــــــــــــــ					

†Optional Parts

#### \*\*WHEEL CHART

	Steel Rim					
				Tread	Туре	
			Size	Twinline	Waffle	Bearings
			7 x 1.5	734-0639	734-0637	Ball Brgs. 3/8" I.D741-0267, ½" I.D741-0484,
Size			8 x 1.75	734-0643	734-0645	Spacer-750-0434 (Use Axle Bolt 710-0347)
7 x 1.5	734-0840	734-1161	7 x 1.5	734-0876	734-0893	1/2" I.D. Plastic Brg741-0262
8 x 1.75	734-0841	734-1162	8 x 1.75	734-0661	734-0812	(2 per Wheel)



This instruction manual covers various models and all specifications shown do not necessarily apply to your model. Specifications subject to change without notice or obligation.

\*For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

NOTE: The engine is not under warranty by the mower manufacturer...If repairs or service is needed on the engine, please contact your nearest authorized engine service outlet. Check the "Yellow Pages" of your telephone book under "Engines—Gasoline."

#### (462-Red Flake)

When ordering parts, if color or finish is important use the appropriate color code shown above. (e.g. Red Flake Finish—10292 (462).)

## PARTS INFORMATION

#### **POWER EQUIPMENT PARTS AND SERVICE**

Parts and service are available through the authorized service firms listed below. All orders should specify the model number of your unit, part numbers, description of parts and the quantity of each part required.

## BRIGGS AND STRATTON, TECUMSEH AND PEERLESS PARTS AND SERVICE

Briggs & Stratton, Tecumseh and Peerless parts and service should be handled by your nearest authorized engine service firm. Check the yellow pages of your telephone directory under the listing **Engines—Gasoline**, Briggs & Stratton or Tecumseh Lauson.

NOTE: If any parts are found to be missing or defective upon assembly of this unit, write to advise the factory so that immediate replacement can be made.

•			
ALABAMA	BIRMINGHAM	ОНІО	CARROLL
Auto Electric & Carburetor Co	2625 4th Ave. S35233	Stebe's Mid-State Mower Supply	. Box 366, 71 High St 43112
ARKANSAS	NORTH LITTLE ROCK		CLEVELAND
Sutton's Lawn Mower Shop	5301 Roundton Drive	Bleckrie, Inc	7900 Lorain Ave44102
CALIFORNIA Billious	Box 368. Rt. 4 72117	National Central	WADSWORTH
CALIFORNIA	PORTERVILLE	National Central	687 Seville Rd 44281
Billious	75 North D Street 93257	Burton Supply Co  OKLAHOMA Victory Motors, Inc.	YOUNGSTOWN
COLORADO	DENVER	Burton Supply Co	1301 Logan Ave.
Chitman Industrial Draduata Co	CCO1 N		Box 929 44501
opitzor madotnar rodusto son	Washington St	OKLAHOMA	MUSKOGEE
FLORIDA	JACKSONVILLE	Victory Motors, Inc	605 S. Cherokee 74401
Radco Distributors	4909 Victor St.	OREGON Kenton Supply Co	PORTLAND
riadoo Biotribatoro	Box 5459	Kenton Supply Co	8216 N. Denver Ave 97217
	HIALFAH	PENNSYLVANIA EECO Inc	HARRISBURG
Small Eng. Dist	7995 W 26th Court 33016	FFCO Inc.	4021 N. 6th St 17110
GEORGIA	EAST POINT		PHILADELPHIA
East Point Cycle & Key Inc	2834 Church St 30344	Thompson Bubber Co	5222-24 N. Fifth St 19120
ILLINOIS	LYONS	, , , , , , , , , , , , , , , , , , ,	PITTSBURGH
Koon Edge Co	8615 Odden Ave - rub34 -	Pluomont Co	11125 Frankstown Bd 15235
INDIANA	ELKHART . 2101 Industrial Pkwy 46516	Bidemont Co	PUNXSUTAWNEYR.D. 2
Ports & Sales Inc	2101 Industrial Pkwy 46516	Frank Roberts & Sons	B D 2 15767
IOWA	DUDUOUS	Trank Hoberts & Cons	SCRANTON
Bower Lowe & Gordon Equip	DUBUQUE	Scranton Auto Ignition Co	SCRANTON 1133-35 Wyoming Ave. 18509
Power Lawn & Garden Equip	NEW ODLEANS	TENNESSEE	KNOXVILLE
LOUISIANA	NEW ORLEANS 8330 Earhart Blvd '0118	Maeter Renair Service	KNOXVILLE 2000 Western Ave 37921
Suhren Engine Co	8330 Earnart Bivd 0116	Master Repair Service	MEMPHIS
MARYLAND	TAKOMA PARK 6867 New Hampshire	American Sales & Service Inc	3035-43 Bellbrook38116
Center Supply Co	6867 New Hampshire	American Sales & Service, Inc	DALLAC
	Ave20912	TEXAS	DALLAS 423 E. Jefferson 75203
MASSACHUSETTS	SPRINGFIELD 300 Birnie Ave1)1107	Marr Brotners, Inc.	423 E. Jenerson 75203
Morton B. Collins Co	300 Birnie Ave	Woodson Sales Corp	FORI WORLH
MICHIGAN	LANSING		
Lorenz Service Co	LANSING  2500 S. Pennsylvania 18910		Hwy. 10
	MOUNT CLEMENS		HOUSION
Power Equipment Dist.,	MOUNT CLEMENS 340 Hubbard 18043	Bullard Supply Co	. 2409 Commerce St //003
MINNESOTA	HOPKINS 420 Excelsior Ave. W 55343		SAN ANTONIO
Hance Distributing Inc	420 Excelsior Ave. W 5343	Engine House Inc  UTAH Powered Products	8610 Botts Lane
MISSISSIPPI	BILOXI	100 A	P.O. Box 1/867 /821/
Biloxi Sales & Service, Inc	506 Caillavet St 39533	UTAH	BOUNTIFUL
MISSOURI	KANSAS CITY 3117 Holmes St	Powered Products	485 N 500 W84010
Automotive Equip. Service	3117 Holmes St	VIRGINIA RBI Corp.	ASHLAND
	CI INCEDA	RBI Corp	101 Cedar Ridge Dr 23005
Ross-Frazer Supply Co	8th and Monterey 34503	WASHINGTON	SEATTLE 1410 14th Ave98122
		Equip. Northwest	1410 14th Ave98122
Henzler, Inc.	2015 Lemay Ferry Rd 33125	WISCONSIN	CHILTON
NEW JERSEY	2015 Lemay Ferry Rd 33125  BELLMAWR 717 Creek Rd	WISCONSIN Horst Dist. Inc.	444 N. Madison St 53014
Lawnmower Parts Inc	717 Creek Rd )8030	NORTH CAROLINA	GOLDSBORO
NEW MEXICO	ALBUQUERQUE 1023 Third Ave. N.W 37103	NORTH CAROLINA Smith Hardware Co	515 N. George St 27530
Spitzer Eng. & Parts Co	1023 Third Ave. N.W 37103		GREENSBORO
NEW VODE	CARIMAGE	Dixie Sales Company	<b>GREENSBORO</b> 335 N. Green
Gamble Dist., Inc	West End Ave 13619	Sixio daloo dompany	555 6.050

#### **WARRANTY PARTS AND SERVICE POLICY**

0484)

The purpose of warranty is to protect the customer from defects in workmanship and materials, defects which are NOT detected at the time of manufacture. It does not provide for the unlimited and unrestricted replacement of parts. Use and maintenance are the responsibility of the customer. The manufacturer cannot assume responsibility for conditions over which it has no control. Simply put, if it's the manufacturer's fault, it's the manufacturer's responsibility; if it's the customer's fault, it's the customer's responsibility.

## CLAIMS AGAINST THE MANUFACTURER'S WARRANTY INCLUDES:

- 1. Replacement of Missing Parts on new equipment.
- 2. Replacement of Defective Parts within the warranty period.
- 3. Repair of Defects within the warranty period.

All claims MUST be substantiated with the following information:

- 1. Model Number of unit involved.
- 2. Date unit was purchased or first put into service.
- 3. Date of failure.
- 4. Nature of failure.