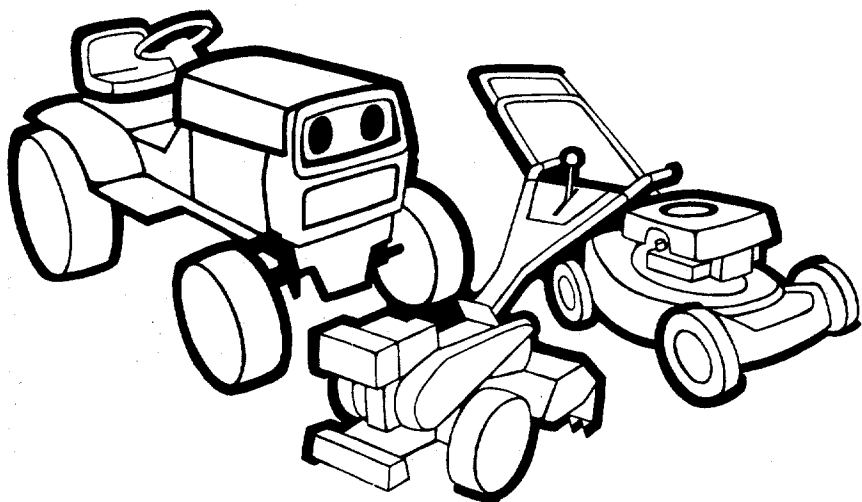


OWNERS MANUAL



**20" SELF-
PROPELLED
REAR
DISCHARGE
ROTARY
MOWER**

**ASSEMBLY
OPERATION
MAINTENANCE
PARTS LIST**

**Model Number
124-332-000**

**Important:
Read Safety Rules and
Instructions Carefully**

Thank you for purchasing an
American built product.

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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.

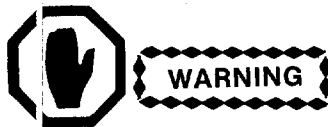
This warranty will not apply to any part which has become inoperative due to misuse, excessive use, accident, neglect, improper maintenance, alterations, or unless the unit has been operated and maintained in accordance with the instructions furnished. This warranty does not apply to the engine, motor, 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.



WARNING

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

1. 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.
2. Your rotary mower is a precision piece of power equipment, not a plaything. Therefore, exercise extreme caution at all times.
3. 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.
4. 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 accidentally thrown by the mower in any direction and cause serious personal injury to the operator or any others allowed in the area.

PREPARATION

1. 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.
5. 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.
7. 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.
9. 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

1. Do not change the engine governor settings or overspeed the engine. Excessive engine speeds are dangerous.
2. 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.
3. 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.
5. 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.
7. 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.
9. 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.
10. Always disconnect electric mowers (line operated) before cleaning, repairing or adjusting.
11. Never operate mower without proper guards, plates or other safety protective devices in place.
12. **DO NOT OPERATE** this mower unless the complete grass catcher is properly mounted on the mower.

MAINTENANCE AND STORAGE

1. 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.
3. 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.
4. To reduce fire hazard, keep the engine free of grass, leaves, or excessive grease.
5. Check the grass catcher bag frequently for wear or deterioration. For safety protection, replace only with new bag meeting original equipment specifications.



NOTE

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

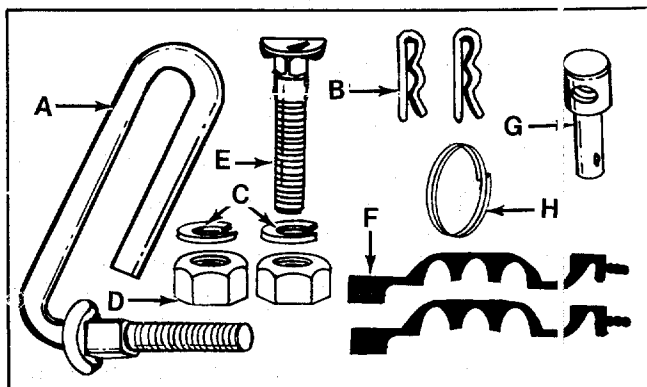


FIGURE 1.

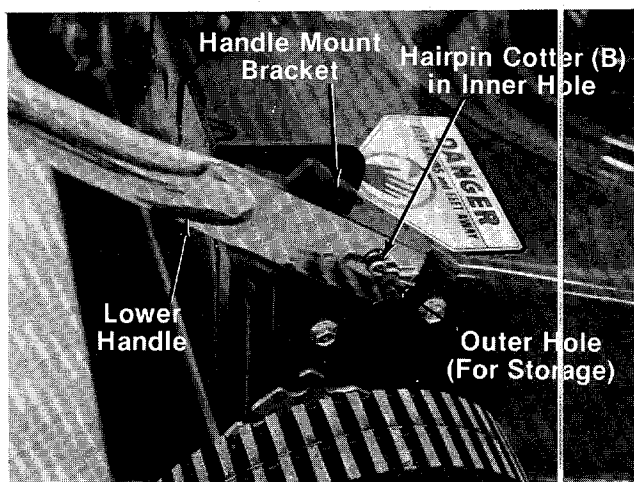


FIGURE 2.

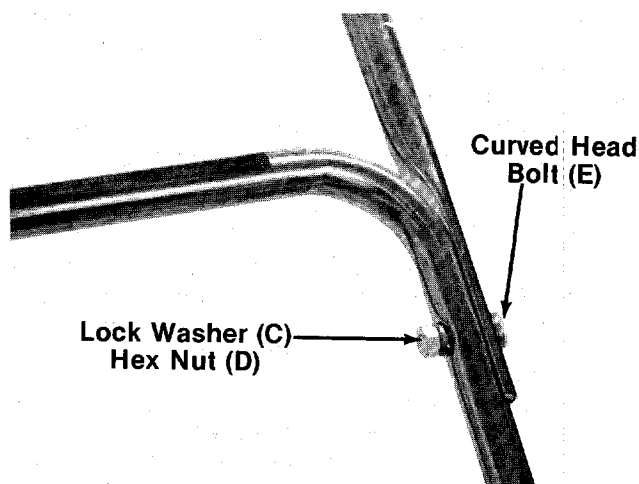


FIGURE 3.

ASSEMBLY INSTRUCTIONS



NOTE

Reference to right or left hand side of the mower is observed from the operating position.

Contents of hardware pack: (See figure 1)

- A (1) Rope Guide Bolt
- B (2) Hairpin Cotters
- C (2) Lock Washers 5/16" I.D.
- D (2) Hex Nuts 5/16-18 Thread
- E (1) Curved Head Carriage Bolt
- F (2) Cable Ties
- G (1) Ferrule
- H (1) Locking Ring

1. Remove lawn mower and loose parts from carton. Make certain all parts and literature have been removed from the carton before the carton is discarded.
2. Extend the throttle control cable (attached to the upper handle) and the brake cable (attached to the engine) and place on the floor. Be careful not to bend or kink control cables.
3. Attach the lower handle by placing the bottom holes in the lower handle over the weld pins on the handle mount brackets. Make certain the instruction label on the lower handle can be read from the operating position. Secure with hairpin cotters (B) in inner holes on weld pins. See figure 2.



NOTE

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



NOTE

It may be necessary to bend the ends of the lower handle inward slightly to obtain a tight fit against the handle mount brackets.

4. Place the upper handle in position over the lower handle. The control housing must be on the left hand side of the handle. Secure the left hand side of upper handle using the curved head bolt (E), lock washer (C) and hex nut (D) as shown in figure 3.



NOTE

The right hand side of the handle will be secured with the rope guide bolt. However, left handed operators may assemble the rope guide bolt to the left side of the handle for easier starting.

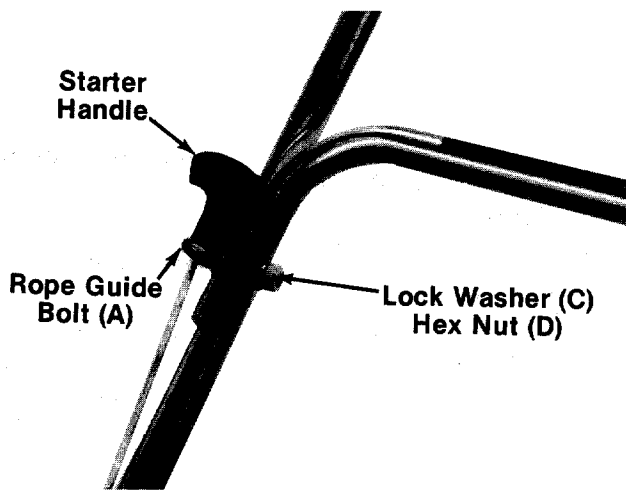


FIGURE 4.

5. Insert the rope guide bolt (A) through the right hand side of upper and lower handle.
6. The starter rope is wound around the starter handle. Maintain the tension on the rope as you unwind it.
7. Slip the starter rope into the rope guide bolt as shown in figure 4. Secure the rope guide bolt with lock washer (C) and hex nut (D). If more slack is needed in the starter rope, disconnect and ground the spark plug wire. Depress the blade control handle and pull additional rope out from the engine.

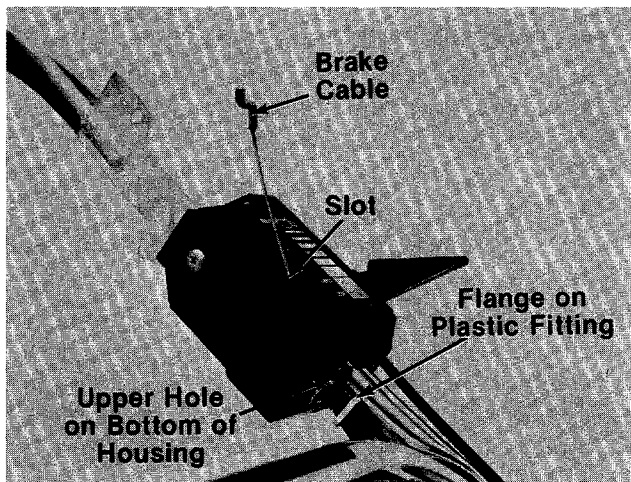


FIGURE 5.

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



Brake cable must be assembled as shown for proper blade brake operation.

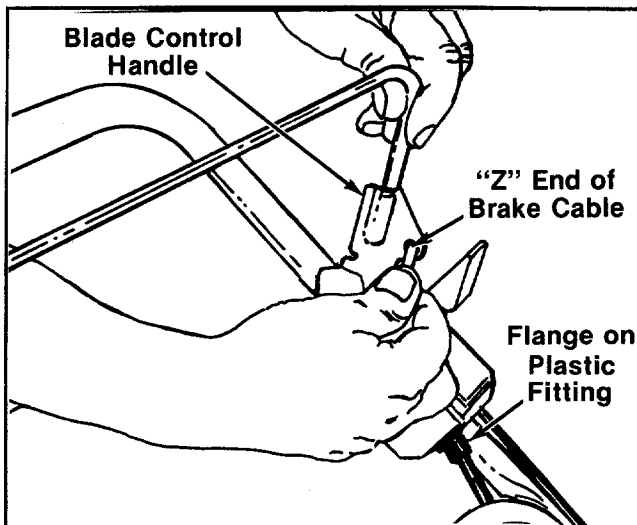


FIGURE 6.

9. Snap the plastic fitting on the end of the cable into the control housing. Hook the "Z" end of the brake cable into the hole in the blade control handle. See figure 6. If additional slack is needed in order to hook the cable into the handle, proceed as follows.

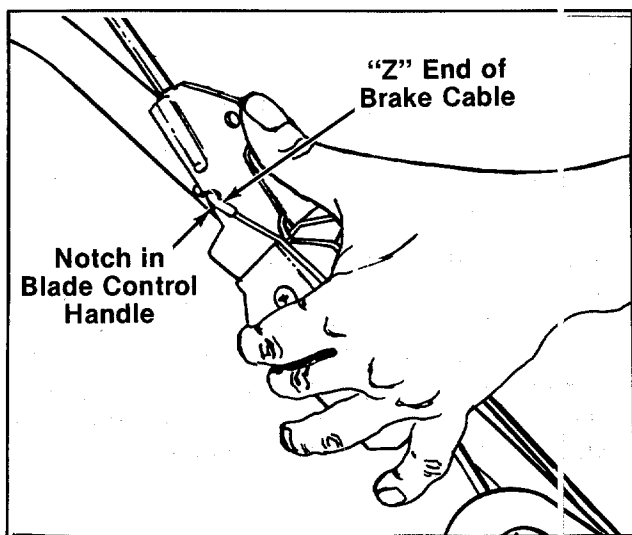


FIGURE 7.

- a. Hook the "Z" end of the cable into notch provided in the blade control handle. See figure 7.
- b. 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.

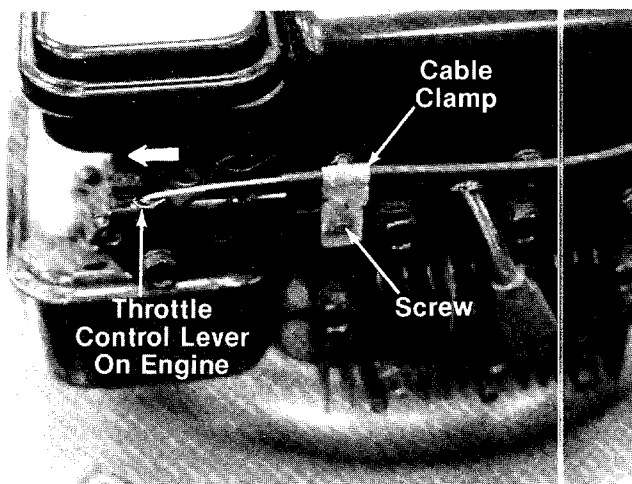


FIGURE 8.

10. Place the throttle control lever on the handle in "Fast" position.
11. Push the throttle control lever on the engine to the full open position (as far toward the outside of the unit as it will go) as shown in figure 8.
12. Hook the "Z" end of the throttle control cable into the hole in the control lever on the engine.
13. Remove the screw on the cable clamp shown in figure 8. Slip the control casing under the clamp. With the throttle lever on the engine still in the full open position, replace and tighten the screw to secure the throttle control cable.
14. 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.

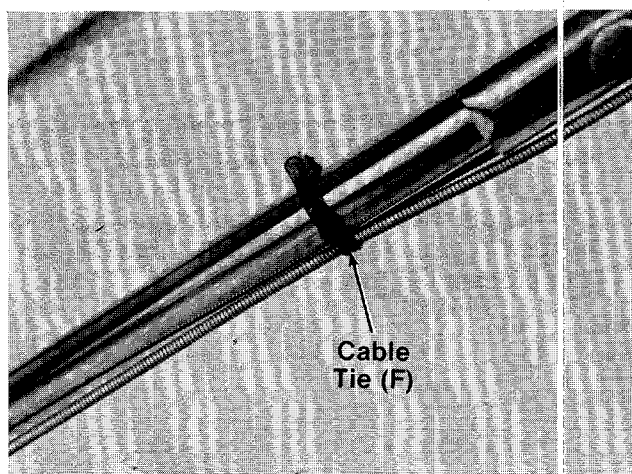


FIGURE 9.

15. Secure control cables to upper and lower handles with cable ties (F). See figure 9.

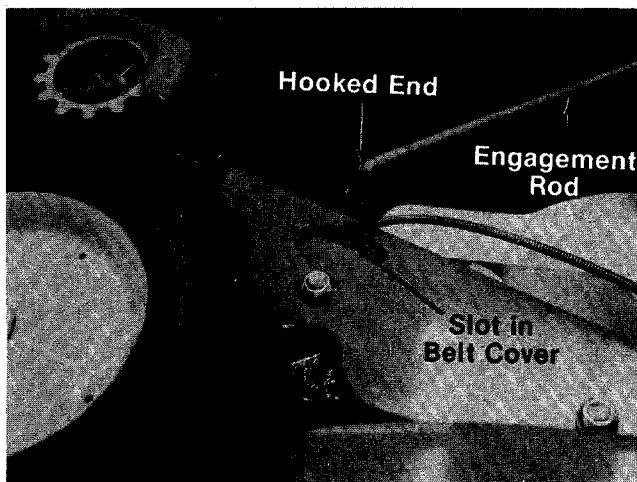


FIGURE 10.

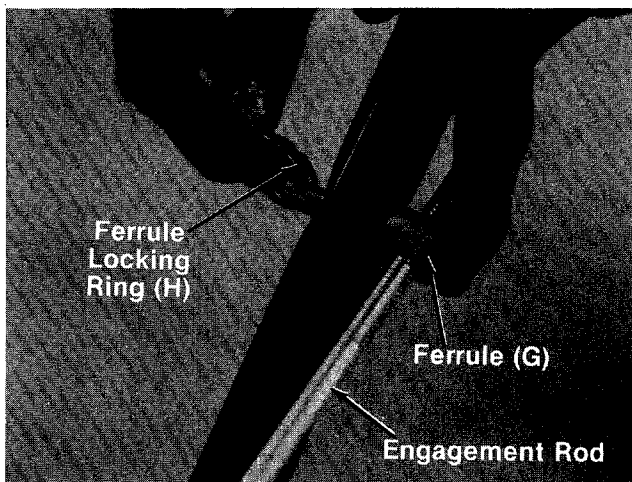


FIGURE 11.

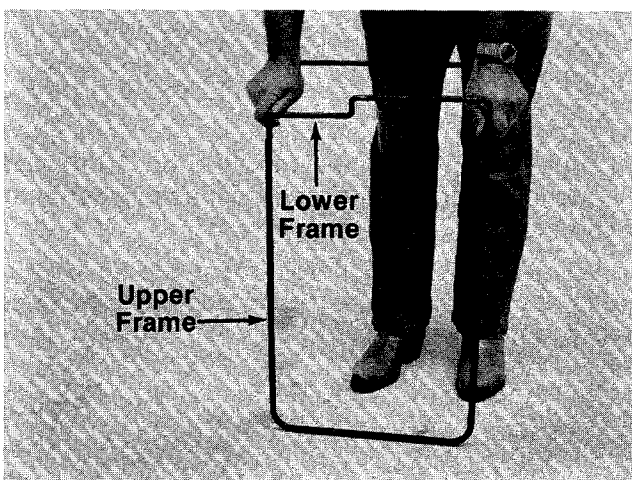


FIGURE 12.

16. Hook the end of engagement rod into idler bracket located inside slot on belt cover. See figure 10.

17. Pull the engagement rod back until the idler bracket is at the rear of the slot on belt cover.

18. With handle in the down position (released), place ferrule (G) on threaded end of engagement rod. Thread ferrule onto engagement rod until it lines up with the hole in lower handle.

19. Place ferrule into hole in lower handle. Secure with ferrule locking ring (H). See figure 11.



CAUTION

The final adjustment of the engagement rod must be made before the engine is started as described in step 20.

20. **Check the engagement rod adjustment.** Disconnect the spark plug wire from the spark plug and ground it against the engine. Standing behind the unit, depress the blade control handle and hold it against the upper handle as shown in figure 18. Pull the recoil starter handle without raising the mower handle. If the mower does not move forward, adjustment is correct. If the mower moves forward, remove the ferrule locking ring from the ferrule and thread in or out one turn. Repeat the above check as necessary.

22. Check all nuts and bolts for correct tightness.

Grass Catcher Assembly

1. Join the upper frame and lower frame assembly as shown in figure 12.

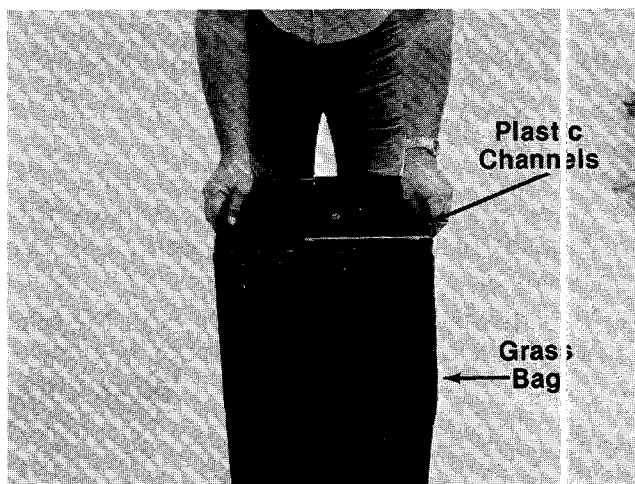


FIGURE 13.

2. Place bag over frame (black plastic side is the bottom of bag). Upper frame goes to the top of bag.

3. Secure bag to frame by slipping plastic channels on bag over frame. See figure 13.

To Attach Bag To Mower



WARNING

DO NOT operate the mower unless the complete grass catcher is properly mounted on the mower.

1. Attach the grass catcher frame to rear of the mower by hooking grass catcher into hook on rear deck section. See figure 14.



NOTE

Figure 14 is shown with the chute door open for photo clarity only.

2. Lift the rear of grass catcher up and slip the grass catcher frame into the slots on the hinge bracket. See figures 14 and 15.

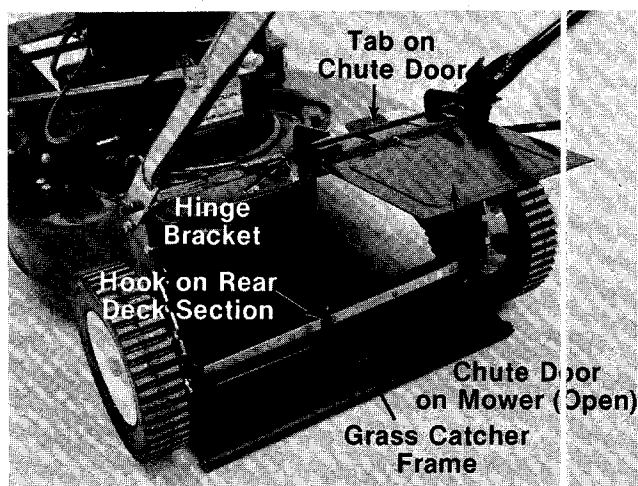


FIGURE 14.

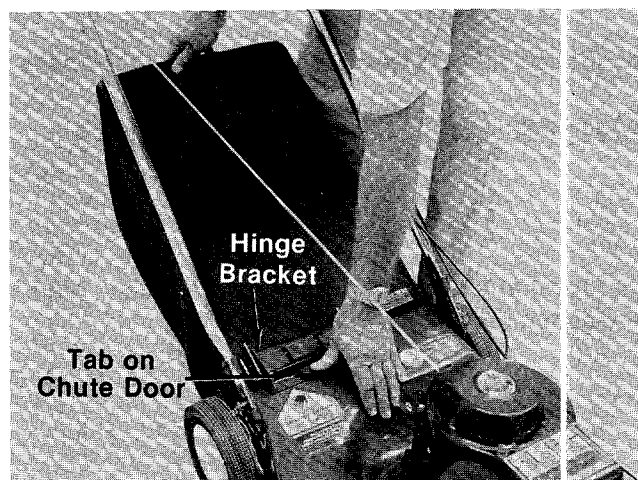


FIGURE 15.

3. Push the tab on the chute door. The grass catcher frame will snap into place, secured by the chute door. See figure 15.

To remove the grass catcher, press the tab on the chute door and slip the grass catcher off the unit. See figure 15.

CONTROLS

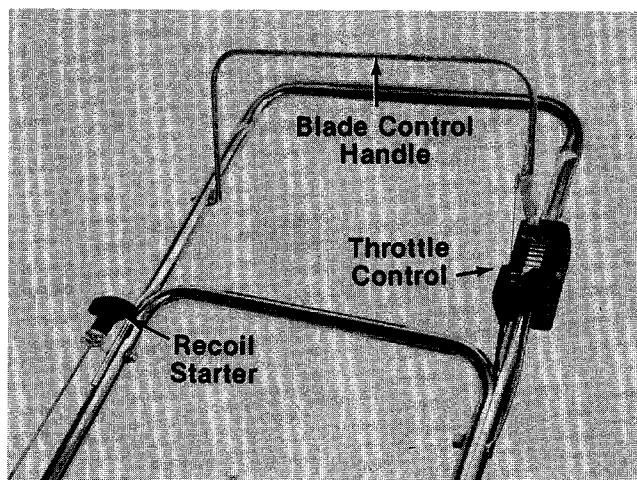


FIGURE 16.
BLADE CONTROL HANDLE

WARNING

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

The blade control handle is located on the upper handle of the mower. See figure 16. The blade control handle must be depressed in order to operate the unit. Release the blade control handle to stop the engine and blade.



The blade will be rotating whenever the engine is running.

THROTTLE CONTROL

The throttle control is located on the left side of the upper handle. It is used to regulate the engine speed. The engine should be started with the engine in the FAST or START position.



The throttle control cannot be used to stop the engine.

RECOIL STARTER

The recoil starter handle is attached to the handle. See figure 16. Stand behind the unit in the operating position to start the unit.

SELF-PROPELLED DRIVE MECHANISM

To engage the drive mechanism, move the handle forward.

To stop the forward drive, lower the handle. The unit will be free-wheeling. Self-propelled drive is resumed when handle is raised.

OPERATION

DO NOT OPERATE THIS MOWER UNLESS THE COMPLETE GRASS-CATCHER IS PROPERLY MOUNTED ON THE MOWER.



FIGURE 17.
Keep hands and feet away from the chute area on cutting deck. See figure 17.



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 section.

BREAK-IN INSTRUCTIONS

This mower should be broken in following the procedure described below. The added effort here will double the service life of the unit. Particular attention should be paid to the drive assembly adjustment.

1. Before starting the engine, lubricate all the bronze bearings on the drive shaft. The same oil which is used for the engine may be used for this.
2. Check drive assembly adjustment. Refer to step number 20 under assembly instructions.

BEFORE STARTING

1. Follow "break-in instructions." See above.
2. Fill sump with oil as instructed in the separate engine manual packed with your unit.
3. Fill fuel tank, using clean, fresh, lead-free, low-lead or regular grade leaded gasoline. Fill tank completely!

DO NOT MIX OIL WITH GASOLINE.

4. Attach spark plug wire to spark plug.

TO START ENGINE AND ENGAGE BLADE



When starting the unit, place the unit facing a solid object to stop it if it is not correctly adjusted to be in "Neutral" position. If the unit shows signs of motion with the handle back in the "free-wheeling" position, shut off the engine immediately. Readjust the clutch rod as necessary. Refer to step number 20 under Assembly Instructions.

1. Make sure handle is all the way back (free-wheeling position).
2. Move the throttle control lever to FAST or START position.
3. Standing behind the unit, depress the blade control handle and hold it against the upper handle as shown in figure 18.
4. Grasp the recoil starter handle as shown and pull up rapidly. Return it slowly to the rope guide bolt.
5. After engine starts, move throttle control to desired engine speed.

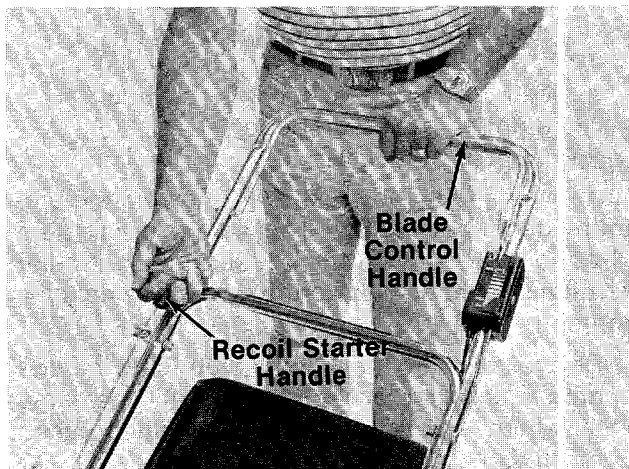


FIGURE 18.

TO STOP ENGINE AND BLADE

1. Release the blade control handle to stop the engine and blade.



The blade continues to rotate for a few seconds after the engine is shut off.

2. Disconnect the spark plug wire and ground it against the engine to prevent accidental starting while equipment is unattended.

USING YOUR ROTARY MOWER



DO NOT operate the mower unless the complete grass catcher is properly mounted on the mower.

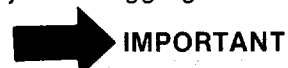
Be sure that lawn is clear of stones, sticks, wire, or other objects which could damage lawn mower or engine. Such objects could be accidentally thrown by the mower in any direction and cause serious personal injury to the operator and others.

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

For the 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.

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. Extensive vibration of the mower during operation is an indication of damage. The unit should be promptly inspected and repaired.

ADJUSTMENTS



CAUTION

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

CUTTING HEIGHT ADJUSTMENT

An adjusting plate and thumb lever at each wheel position provides cutting height adjustment. Each adjusting plate has five holes. Height of cut will be changed when the thumb lever is moved from one hole to another. Simply depress the lever towards wheel and move wheel and lever assembly to desired position. See figure 19. All wheels must be placed in the same relative position.

For rough or uneven lawns, move the wheels to a position which will give a higher cutting height.



IMPORTANT

The engagement rod must be readjusted when the cutting height on the mower is changed. See engagement rod adjustment.

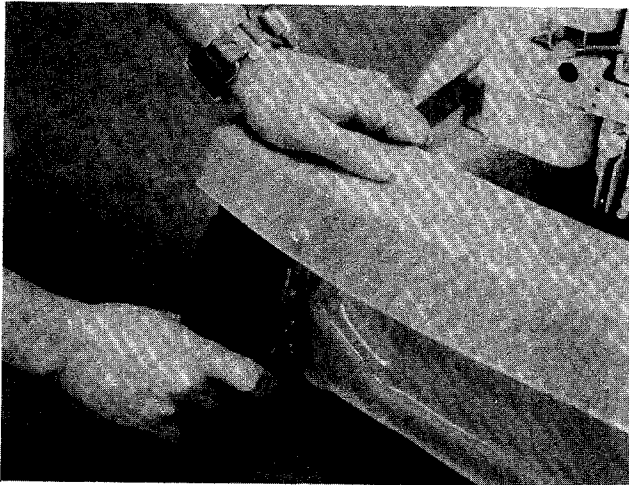


FIGURE 19.

ENGAGEMENT ROD ADJUSTMENT

To adjust the engagement rod, refer to step number 20 under assembly instructions.

The engagement rod must be adjusted each time the cutting height is changed. The ferrule will be moved toward the end of the rod as the cutting height is raised. See figure 20.

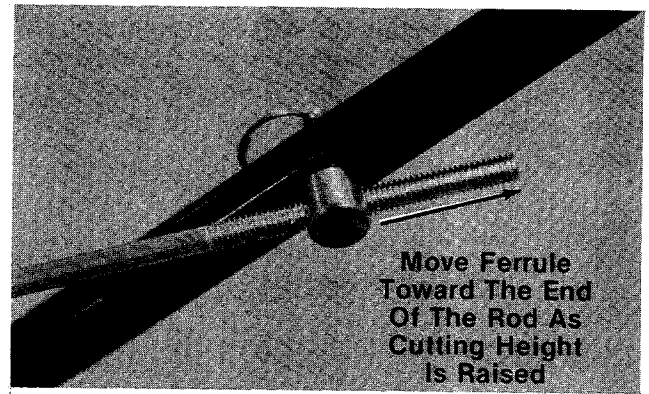


FIGURE 20.

THROTTLE

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

1. Loosen, but do not remove, the screw securing throttle control wire assembly at engine. See figure 8.
2. Move throttle control lever on handle to "FAST" position.
3. Move control lever on engine to full open position. Retighten screw to secure throttle control wire assembly.

CARBURETOR ADJUSTMENTS



WARNING

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

Minor carburetor adjustments may be required to compensate for differences in fuel, temperature, altitude and load.

To adjust carburetor, refer to the separate engine manual packed with your mower.

LUBRICATION



IMPORTANT

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

Blade Control—Lubricate the pivot points on the blade control handle and the brake cable at least once a season with light oil. See figure 21. The blade control must operate freely in both directions.

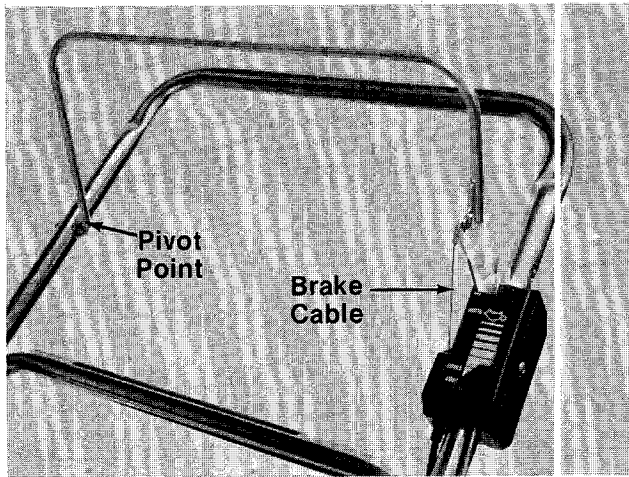


FIGURE 21.

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

Wheels—The wheel bearings require no lubrication. However, 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.

Bronze Bearings—Periodically lubricate all bronze bearings with a few drops of light oil to minimize friction.

MAINTENANCE



CAUTION

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

CUTTING BLADE

A. Removal for Sharpening or Replacement



WARNING

Be sure to disconnect and ground the spark plug wire before working on the cutting blade to prevent accidental engine starting.

Remove the large bolt and lock washer which holds the blade and adapter to the engine crankshaft. Remove the blade and adapter from the crankshaft.

If the blade or blade adapter needs replacing, remove the two small bolts, lock washers and nuts which hold the blade to the adapter.



CAUTION

Periodically inspect the blade adapter for cracks, especially if you strike a foreign object. Replace when necessary.

B. Sharpening

Remove the cutting blade by following the directions of the preceding section.

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.

It is recommended that the blade always be removed from the adapter for the best test of balance. The blade can be tested by balancing it on a round shaft screwdriver. Remove metal from the heavy side until it balances evenly.

C. Reassembly

Before reassembling the blade and the blade adapter to the unit, lubricate the engine crankshaft and the inner surface of the blade adapter with light oil. Lubricating the bolt holes, bolts and inner surface of the nuts with light oil is also recommended. A 4 oz. plastic bottle of light oil lubricant is available. Order part number 737-0170. Engine oil may also be used.

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

3/8" Dia. Bolt 375 in. lb. min., 450 in. lb. max.

5/16" Dia. Bolt 150 in. lb. min., 250 in. lb. max.

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. Pay particular attention to the area of the rear baffle and chain. Grass may accumulate in this area and must be cleaned out periodically to prevent possible problems with the clutch engagement.

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.



CAUTION

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 engine 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 opening. 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 drain on bottom of the engine. 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 the air cleaner, refer to the separate engine manual packed with your unit.

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 mowing season; check engine manual for correct plug type and gap specifications.

BELT REPLACEMENT (See Figure 22)



IMPORTANT

Always stop engine and disconnect spark plug wire before performing any repairs or maintenance on the mower.

1. Remove the drive pinion cover by removing three hex self-tapping screws. A 3/8" wrench is required.
2. Remove both tension springs. See figure 22.
3. Using a screwdriver, remove the E-rings and pinions on both wheels.
4. Remove the shoulder bolt, lock washers and nut on the belt cover.
5. Remove the engagement rod.
6. Slide the belt cover to the left.
7. Unhook the belt from the idler and the pulleys.
8. Remove the shoulder bolt, lock washer and nut from the cover support bracket.
9. Remove belt and reassemble in reverse order with a new belt.

HANDLE STORAGE

The handle may be placed in an upright position for storage.

Remove the engagement rod. Move hairpin cotter to outer hole on weld pins. See figure 2. Press outward on the bottom of the lower handle and push forward. The handle will lock in this position.

To place the handle in the operating position, remove the starter rope from the rope guide bolt. Grasp the lower handle at the bottom, pull apart slightly and tip the handle backward. Place the cotter hairpins in the inner holes. With the spark plug wire disconnected and grounded, depress the blade control handle and pull the starter rope out from the engine. Slip the starter rope into the rope guide bolt. Reassemble the engagement rod.



NOTE

Be certain to check engagement rod adjustment.

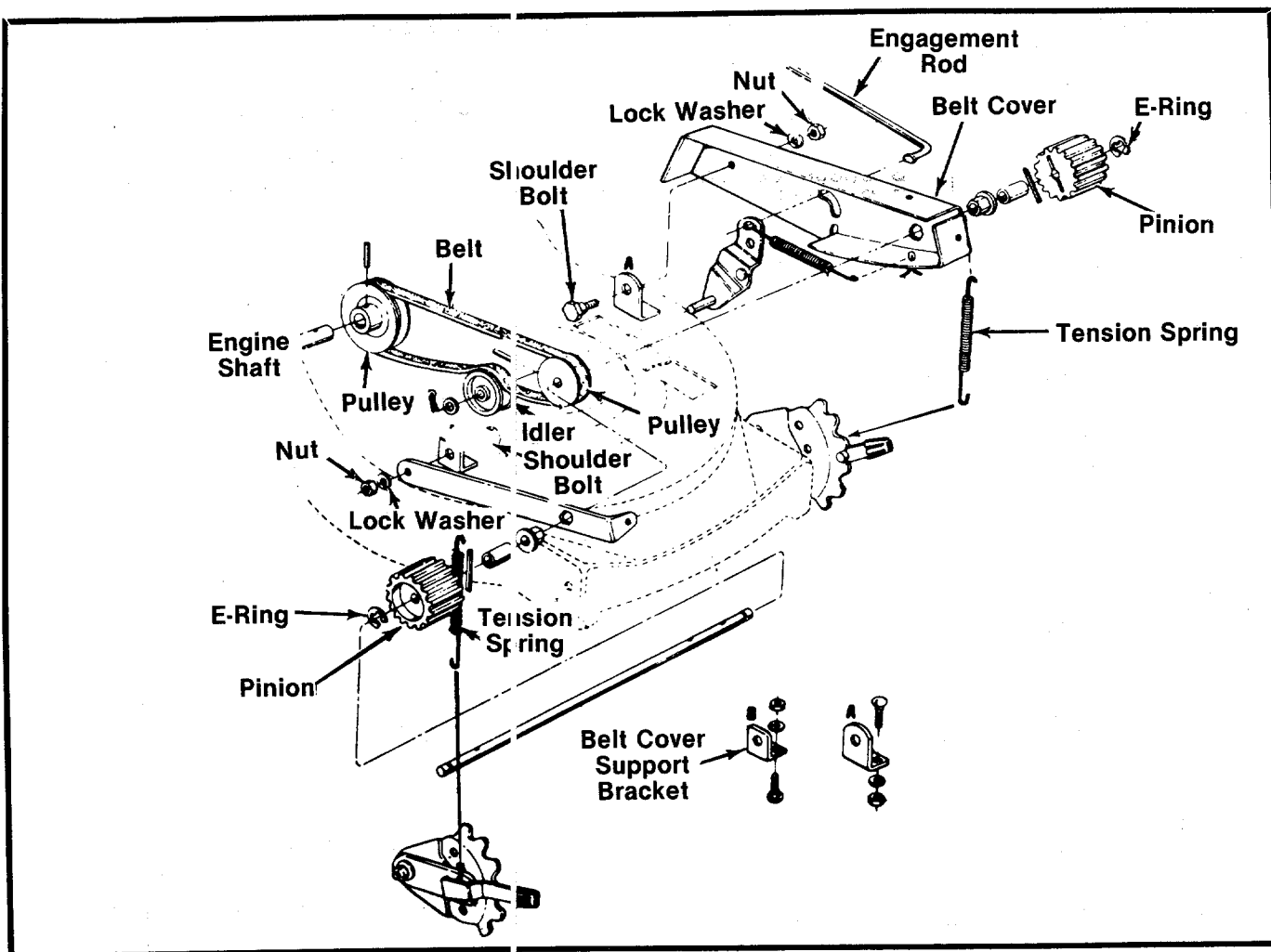


FIGURE 22.

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.



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

Trouble Shooting Chart

Problem	Cause	Remedy
1 Engine fails to start	A Blade control handle disengaged B Check fuel tank for gas 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 H Engine brake engaged	A Engage blade control handle. B Fill tank if empty. C Connect lead wire. D Move throttle lever to start position. E Spark should jump gap between control electrode and side electrode. If spark does not jump, replace the spark plug. 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 procedures. G Drain and refill with fresh gasoline. H Follow starting procedure.
2 Hard starting or loss of power	A Spark plug wire loose B Carburetor improperly adjusted C Dirty air cleaner	A Connect and tighten spark plug wire. B Adjust carburetor. See separate engine manual. C Clean air cleaner as described in separate engine manual.
3 Operation erratic	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 Remove the dirt and fill tank with fresh gas. B Clean air cleaner as described in separate engine manual. C Drain contaminated fuel and fill tank with fresh gas. D Clear vent or replace gas cap. E Adjust carburetor. See separate engine manual.
4 Occasional skip (hesitates) at high speed	A Carburetor idle speed too slow B Spark plug gap too close C Carburetor idle mixture adjustment improperly set	A Adjust carburetor. See separate engine manual. B Adjust to .030". C Adjust carburetor. See separate engine manual.
5 Idles poorly	A Spark plug fouled, faulty, or gap too wide B Carburetor improperly adjusted C Dirty air cleaner	A Reset gap to .030" or replace spark plug. B Adjust carburetor. See separate engine manual. C Clean air cleaner as described in separate engine manual.
6 Engine overheats	A Carburetor not adjusted properly B Air flow restricted C Engine oil level low	A Adjust carburetor. See separate engine manual. B Remove blower housing and clean as described in separate engine manual. C Fill crankcase with the proper oil.
7 Excessive vibration	A Cutting blade loose or unbalanced B Bent cutting blade	A Tighten blade and adapter. Balance blade. B Replace blade.

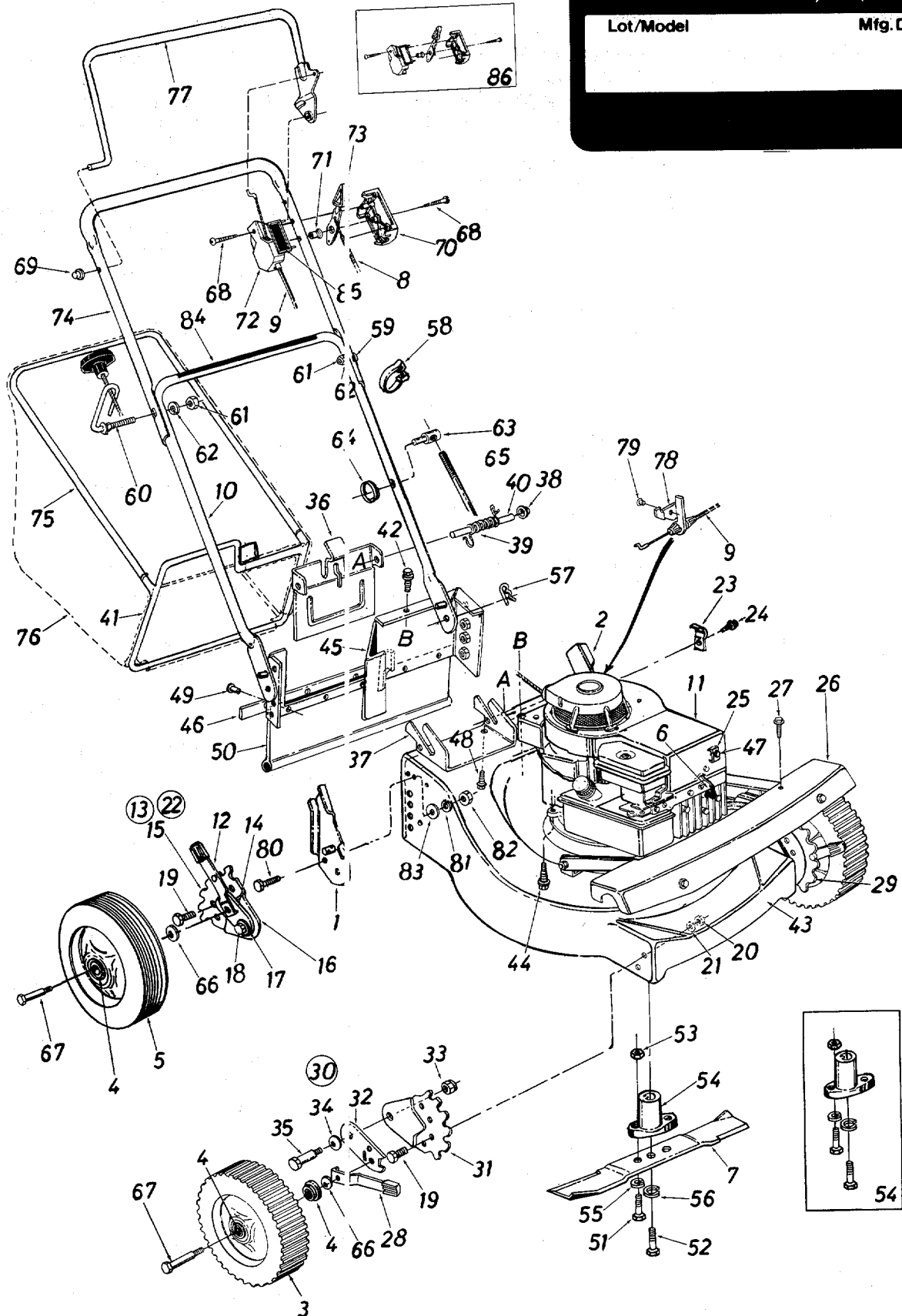
Note: For repairs beyond the minor adjustments listed above, contact your local authorized service dealer.

Model 332

Meets CPSC Blade Safety Requirements

Lot/Model

Mfg. Date



Model 332

PARTS LIST FOR MODEL 332 ROTARY MOWER

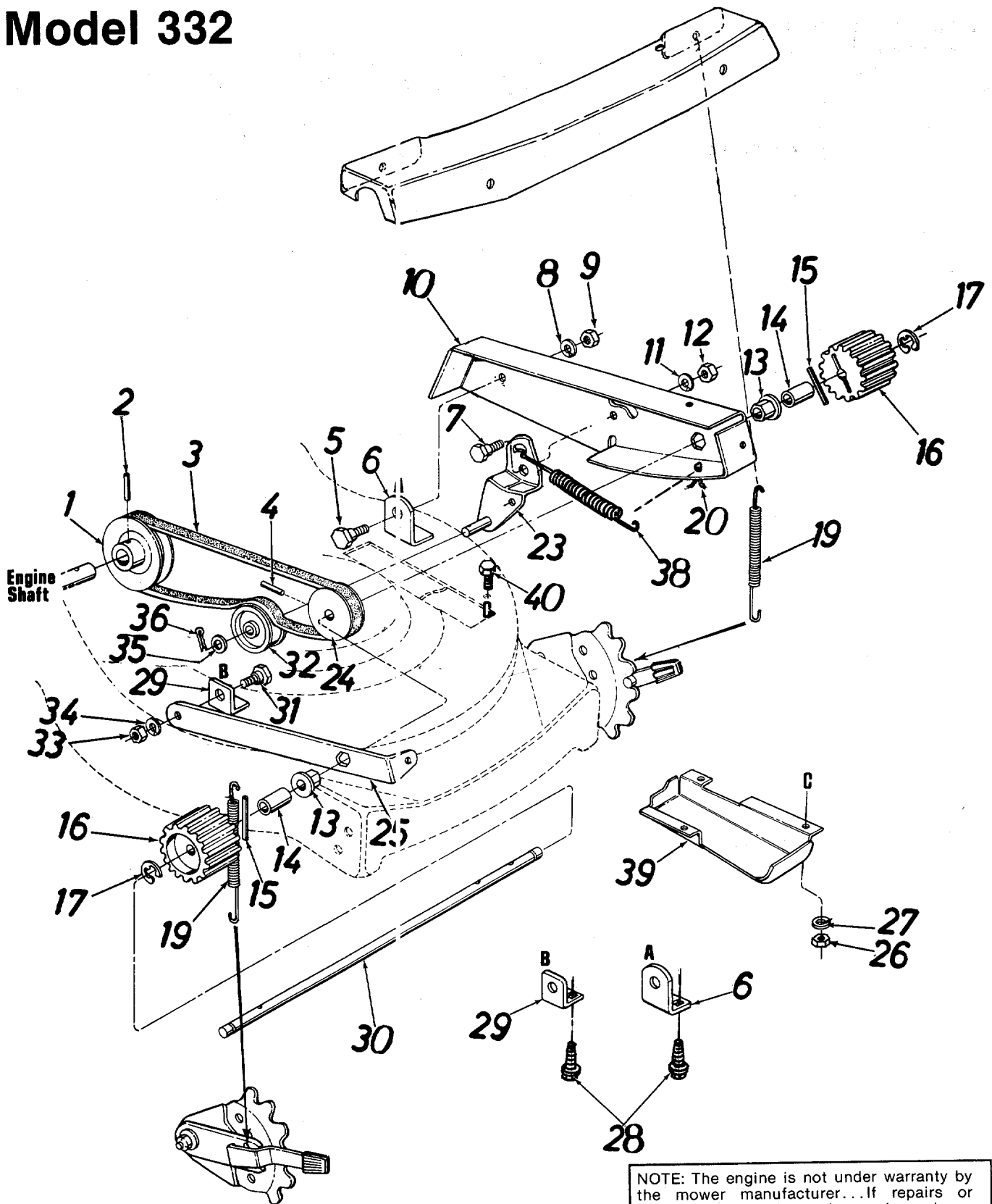
REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	14158		Handle Bracket Ass'y.—R.H.		44	710-0654		Hex Wash. Hd. TT-Tap Scr. 3/8-16 x 1.00" Lg.	
2	14159		Handle Bracket Ass'y.—L.H.		45	15684		Rear Deck Section	
3	734-0538		Front Wheel Ass'y.—Comp. 8.0 x 1.75		46	14419		Reinforcement Strap	
4	741-0262		Flange Bearing—Plastic 1/2" I.D.		47	710-0227		Hex AB-Tap Scr. #8 x .38" Lg.	
5	734-0879		Rear Wheel Ass'y.—Comp. 8.0 x 1.75		48	710-0776		Hex Wash. Hd. AB-Tap Scr. 1/4 x .62" Lg.	
6	735-0639		Spark Plug Insulator		49	728-0131		Rivet .188" Dia. x .438	
7	742-0123		20" Blade		50	731-0592		Rear Flap Ass'y.	
8	746-0472		Throttle Control Wire—58.0"		51	710-0888		Hex Bolt 5/16-24 x 1.00" Lg. (Special)	
9	746-0477		Control Cable—43.0"		52	710-0331		Hex Bolt 3/8-24 x 2.25" Lg. (Grade 5)	
10	749-0495		Lower Handle		53	712-0123		Hex Nut 5/16-24 Thd.*	
11	—		Engine		54	753-0348		Blade Adapter Kit	
12	10531		Spring Lever Ass'y. w/Knob		55	736-0119		L-Wash. 5/16" I.D.*	
13	12321		Rear Height Adj. Ass'y. Comp.—L.H.		56	736-0217		L-Wash. 3/8" I.D. (Heavy Duty)	
14	10619		Pivot Bar		57	714-0104		Intern. Cot. Pin 5/16" Dia.	
15	12323		Index Plate		58	726-0192		Cable Tie	
16	712-0375		Hex Cent. L-Nut 3/8-16 Thd.		59	710-0671		Curved Carriage Bolt 5/16-18 x 1.38" Lg.	
17	736-0255		Bell-Wash. .515" I.D. x 1.14" O.D.		60	710-0842		Rope Guide Bolt	
18	738-0269		Shld. Bolt .500" Dia. x .295		61	712-0267		Hex Nut 5/16-18 Thd.*	
19	710-0216		Hex Bolt 3/8-16 x .75" Lg.*		62	736-0119		L-Wash. 5/16" I.D.*	
20	712-0798		Hex Nut 3/8-16 Thd.*		63	711-0570		Engagement Ferrule	
21	736-0105		Bell-Wash. 3/8" I.D.		64	714-0150		Locking Ring	
22	12322		Rear Height Adj. Ass'y. Comp.—R.H.		65	747-0267		Engagement Rod 5/16" Dia. x 29.0" Lg.	
23	12894		Cable Clamp		66	736-0105		Bell-Wash. .400" I.D. x .88"	
24	710-0429		Hex B-Tap Scr. #10 x .38"	N	67	738-0102		Shld. Bolt .498" Dia. x 1.450	
25	751-0369		Casing Clamp		68	710-0796		Truss Mach. Hi-B Tap Scr. #12 x 1.50" Lg.	
26	12982		Cover		69	726-0135		Cap Speed Nut 5/16" Rod	
27	710-0599		Hex Wash. S-Tap Scr. 1/4-20 x .50" Lg.		70	731-0523		Control Panel Half	
28	10531		Spring Lever Ass'y. w/Knob		71	731-0524		Control Disc Pin	
29	13353		Front Height Adj. Ass'y. Comp.—L.H.		72	731-0526		Clutch Panel Half	
30	13354		Front Height Adj. Ass'y. Comp.—R.H.		73	731-0528		Throttle Control Lever	
31	12323		Index Plate		74	749-0436		Upper Handle	
32	13352		Pivot Bar		75	749-0468		Grass Catcher Upper Frame	
33	712-0375		Hex Cent. L-Nut 3/8-16 Thd.		76	764-0197		Grass Bag	
34	736-0255		Bell-Wash. .515" I.D. x 1.14"		77	14321		Control Handle—L.H.	
35	738-0269		Shld. Bolt .500" Dia. x .295		78	14924		Cable Bracket	
36	15946		Chute Door	N	79	728-0171		Pop Rivet .156" Dia. x .379	
37	14418		Hinge Bracket		80	710-0412		Hex Bolt 1/4-28 x .75" Lg.*	
38	726-0106		Cap Speed Nut 1/4" Rod		81	736-0329		L-Wash. 1/4" I.D.* (Not Shown)†	
39	732-0406		Torsion Spring		82	712-0138		Hex Nut 1/4-28 Thd.* (Not Shown)†	
40	747-0375		Hinge Rod		83	736-0270		Bell-Wash. 1/4" I.D. x .88"	
41	14447		Grass Catcher Lower Frame Ass'y.		84	777-3455		Instruction Label—Handle	
42	710-0599		Hex Wash. S-Tap Scr. 1/4-20 x .50" Lg.		85	777-3458		Control Label—Throttle	
43	15682 —462		20" Rear Discharge Deck Ass'y.		86	753-0360		Control Housing Comp.	
					—	194-061-000		Grass Catcher—Comp.	
					—	8332-000-4		Hardware Pack	

(462—Red Flake)

*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.

When ordering parts if color or finish is important, use the appropriate color code shown above. (e.g. Red Flake Finish—12191 (462).)

Model 332



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."



Model 332

PARTS LIST FOR MODEL 332 ROTARY MOWER

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	756-0289		1/2 "V"-Engine Pulley		20	714-0115		Cotter Pin	
2	715-0246		Spring Pin Spiral 3/16" Dia. x 1.25" Lg.		23	13608		Idler Brkt. Ass'y.	
3	754-0163		"V"-Belt 1/2" x 28.0" Lg.		24	756-0290		1/2 "V"-Pulley	
4	715-0247		Spring Pin Spiral 3/16" Dia. x 1.00" Lg.		25	12980		Cover Support Brkt.	
5	738-0147		Shld. Bolt .500 Dia. x .170		26	712-0287		Hex Nut 1/4-20 Thd.*	
6	15346		Belt Cover Pivot Brkt.		27	736-0329		L-Wash. 1/4" I.D.*	
7	738-0147		Shld. Bolt .500 Dia. x .170		28	710-0599		Hex Wash. Hd. Self-Tap Scr. 1/4-20 x .50" Lg.	
8	736-0169		L-Wash. 3/8" I.D.*		29	15347		Cover Support Pivot Brkt.	
9	712-0342		Hex Jam Nut 3/8-16 Thd.		30	738-0356		Pinion Shaft	
10	13613	—462	Belt Cover Ass'y.		31	738-0147		Shld. Bolt .500 Dia. x .170	
11	736-0169		L-Wash. 3/8" I.D.*		32	756-0360		Plastic Flat Idler	
12	712-0342		Hex Jam Nut 3/8-16 Thd.		33	712-0342		Hex Jam Nut 3/8-16 Thd.*	
13	748-0228		Hex Flange Brg. .503 I.D.		34	736-0169		L-Wash. 3/8" I.D.*	
14	711-0313		Spacer .52 I.D. x .69 O.D. x .88		35	736-0160		Fl-Wash. .53 I.D. x .93 O.D.	
15	715-0246		Spring Pin Spiral 3/16 Dia. x 1.25" Lg.		36	714-0115		Cotter Pin 1/8" Dia. x 1.00" Lg.*	
16	731-0393		13 Teeth Drive Pinion		38	732-0395		Extension Spring	
17	716-0104		"E"-Ring for .500 Dia. Shaft		39	13610		Belt Cover Baffle	
19	732-0344		Extension Spring .40 O.D. x 3.00" Lg.		40	710-0286		Truss Mach. Scr. 1/4-20 x .50" Lg.*	

*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.

(462—Red Flake)
When ordering parts if color or finish is important, use the appropriate color code shown above. (e.g. Red Flake Finish—12191 (462).)



NOTE

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

GRASS CATCHER Model 061 is available as replacement equipment for the mower shown in this manual.



WARNING

1. DO NOT operate the mower unless the complete grass catcher is properly mounted on the mower.
2. DO NOT operate the mower without the protective shield on the rear of the deck in place.



NOTE

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. 764-0197.

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.

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
Auto Electric & Carburetor Co.	2625 4th Ave. S. 35233
ARKANSAS	NORTH LITTLE ROCK
Sutton's Lawn Mower Shop	5301 Roundtop Drive Box 368, Rt. 4 72117
CALIFORNIA	PORTERVILLE
Billious	75 North D Street 93257
COLORADO	DENVER
Spitzer Industrial Products Co.	6601 N. Washington St. 80229
FLORIDA	JACKSONVILLE
Radco Distributors	4909 Victor St. Box 5459 32207
	OPA LOCKA
Small Eng. Dist.	2351 N.W. 147th St. 33054
GEORGIA	EAST POINT
East Point Cycle & Key	2834 Church St. 30344
ILLINOIS	LYONS
Keen Edge Co.	8615 Ogden Ave. 60534
INDIANA	ELKHART
Parts & Sales Inc.	2101 Industrial Pkwy 46516
IOWA	DUBUQUE
Power Lawn & Garden Equip.	2551 J.F. Kennedy 52001
LOUISIANA	NEW ORLEANS
Suhren Engine Co.	8330 Earhart Blvd. 70118
MARYLAND	TAKOMA PARK
Center Supply Co.	6867 New Hampshire Ave. 20912
MASSACHUSETTS	SPRINGFIELD
Morton B. Collins Co.	300 Birnie Ave. 01107
MICHIGAN	LANSING
Lorenz Service Co.	2500 S. Pennsylvania 48910
	MOUNT CLEMENS
Power Equipment Dist.	340 Hubbard 48043
MINNESOTA	HOPKINS
Hance Distributing Inc.	420 Excelsior Ave. W. 55343
MISSISSIPPI	BILOXI
Biloxi Sales & Service, Inc.	506 Caillavet St. 39533
MISSOURI	KANSAS CITY
Automotive Equip. Service	3117 Holmes St. 64109
	ST. JOSEPH
Ross-Frazier Supply Co.	8th and Monterey 64503
	ST. LOUIS
Henzler, Inc.	2015 Lemay Ferry Rd. 63125
NEW JERSEY	BELLMAR
Lawnmower Parts Inc.	717 Creek Rd. 08030
NEW MEXICO	ALBUQUERQUE
Spitzer Eng. & Parts	1023 Third Ave. N.W. 87103
NEW YORK	CARTHAGE
Gamble Dist., Inc.	West End Ave. 13619

BRIGGS AND STRATTON, TECUMSEH AND PEERLESS PARTS AND SERVICE

Briggs & Stratton, Tecumseh and Peerless parts and servi 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.

NORTH CAROLINA	GOLDSBORO
Smith Hardware Co.	515 N. George St. 27530
	GREENSBORO
Dixie Sales Company	335 N. Green 27402
OHIO	CARROLL
Stebe's Mid-State Mower Supply	Box 366, 71 High St. 43112
	CLEVELAND
Bleckrie, Inc.	7900 Lorain Ave. 44102
	WADSWORTH
National Central	687 Seville Rd. 44281
	YOUNGSTOWN
Burton Supply Co.	1301 Logan Ave. Box 929 44501
OKLAHOMA	MUSKOGEE
Victory Motors, Inc.	605 S. Cherokee 74401
OREGON	PORTLAND
Kenton Supply Co.	8216 N. Denver Ave. 97217
PENNSYLVANIA	HARRISBURG
EECO Inc.	4021 N. 6th St. 17110
	PHILADELPHIA
Thompson Rubber Co.	5222-24 N. Fifth St. 19120
	PITTSBURGH
Bluemont Co.	11125 Frankstown Rd. 15235
	PUNXSUTAWNEY
Frank Roberts & Sons	R.D. 2 15767
	SCRANTON
Scranton Auto Ignition Co.	1133-35 Wyoming Ave. 18509
TENNESSEE	KNOXVILLE
Master Repair Service	2000 Western Ave. 3792
	MEMPHIS
American Sales & Service, Inc.	3035-43 Bellbrook 38116
TEXAS	DALLAS
Marr Brothers, Inc.	423 E. Jefferson 75203
	FORT WORTH
Woodson Sales Corp.	1702 N. Sylvania 76111
	HOUSTON
Bullard Supply Co.	2409 Commerce St. 77003
	SAN ANTONIO
Engine House Inc.	8610 Botts Lane P.O. Box 17867 78217
UTAH	SALT LAKE CITY
A-1 Engine & Mower Co.	439 E. 900 So. 84111
VIRGINIA	ASHLAND
RBI Corp.	101 Cedar Ridge Dr. 23005
WASHINGTON	SEATTLE
Bailey's Inc.	1414 14th Ave. 98122
WISCONSIN	APPLETON
Automotive Supply Co.	123 S. Linwood Ave. P.O. Box 798 54911
	CHILTON
Horst Dist.	444 N. Madison 53014

WARRANTY PARTS AND SERVICE POLICY

(0783)

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.