

OWNER'S MANUAL

21" ELECTRIC START SELF-PROPELLED ROTARY MOWER

Model Number 123-296A 82-0632

Important: Read Safety Rules and Instructions Carefully

Thank you for purchasing an American built product.

INDEX

| Safe Operation Practices | |
|--------------------------|--|
| Assembly4 | |
| Controls9 | |
| Operation | |
| Adjustments11 | |
| Lubrication | |

| Maintenance | 13 |
|--------------------|--------------|
| Off-Season Storage | |
| Illustrated Parts | |
| Repair Parts Lists | . 19, 20, 21 |
| Electrical Diagram | |
| Parts InformationE | |
| | |

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

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- 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 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.
- 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.
- 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.
- 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-anddown. 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.

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.

3



FIGURE 1.



FIGURE 2.



FIGURE 3.

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

Contents of Hardware Pack: (See Figure 1)

- A (2) Curved Head Carriage Bolts 1.38" Long
- B (3) Lock Washers 5/16" I.D.
- C (3) Hex Nuts 5/16-18 Thread
- D (1) Carriage Bolt 1.25" Long
- E (1) Ignition Switch Bracket
- F (2) Ignition Keys
- G (1) Plastic Cap
- H (4) Cable Ties
- I (2) Hairpin Cotters
- J (2) Phillips Head Screws

Loose Parts in Carton: (See Figure 2)

K (1) Battery

- L (1) Battery Charger
- M (1) Upper Handle (Not Shown)
- N (1) Lower Handle (Not Shown)
- 1. 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 all control cables 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 (I) in inmer hole on weld pins. See figure 3.



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.

4



 Place upper handle in position over lower handie. Control housing should be on the **right** side of the handle. Secure upper handle with two curved head carriage bolts (A), lock
 washers (B) and hex nuts (C). See figure 4.



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





FIGURE 5.



5. The blade control cable is the cable which has a "Z" fitting on the loose end, and is attached to the engine.

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

6. Snap the plastic fitting on the end of the cable into the control housing.

7. Hook the "Z" end of the blade control cable
 into blade control handle. See figure 6. If additional slack is needed in order to hook the cable into the handle proceed as follows:

FIGURE 6.



FIGURE 7.



FIGURE 8.



- 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.
- 8. If unit is so equipped, remove the dipstick, unsnap the shroud, then replace the dipstick.
- 9. Place the throttle control lever on the handle in "Fast" position.
- 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
- 11. The throttle control cable is attached to the upper handle. Hook the "Z" end of the throttle control cable into the hole in the control lever on the engine.
- 12. Loosen (do not 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, tighten the screw to secure the throttle control cable.
- 14. Slide the braided wire around in the horizontal slot. See figure 10.
- 15. Place the plastic fitting on the control cable into the first adjustment position on the clutch control housing. See figure 9.

FIGURE 9.



FIGURE 10.

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16. Place the plastic cap (G) in position beneath the clutch control housing. Secure with the two Phillips head screws. See figure 10.



Drive clutch adjustment must be checked before the unit is operated, as described in the operation section.



 Plug the two ends on the wire harness (already attached to the engine) into the terminals on the ignition switch bracket (E). See
 figure 11.





18. Place ignition switch bracket in position on left side of upper handle as shown in figure
— 12. Secure with carriage bolt (D), lock washer (B) and hex nut (C).

FIGURE 12.



FIGURE 13.







FIGURE 15.

19. Secure all control cables to upper and lower — handles with cable ties (H). See figure 13.

- 20. The battery is shipped in a partially charged state and must be charged at least 48 hours prior to initial use. Follow charging instructions on page 10.
- 21. Place the charged battery in position on the battery bracket as shown in figure 14.
- 22. Plug the connector on the battery into the connector on the wire harness on the mower.
 See figure 14.
- 23. If unit is so equipped, remove the dipstick, snap on the shroud and replace the dipstick.



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 15.

CONTROLS

THROTTLE CONTROL

The throttle is located on the right side of handle. It controls engine speed. See figure 16.



The throttle control cannot be used to stop the engine.



FIGURE 16. DRIVE CLUTCH CONTROL

Squeezing the drive clutch control engages the drive mechanism to the rear wheels. Releasing the clutch control stops the rear wheels from driving. Release the drive clutch control to slow down when negotiating an obstacle, making a turn or stopping. See 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.

IGNITION SWITCH

The ignition switch is located on the left side of the handle. It is used for **starting only.** See figure 16.

OPERATION

Caution

Do Not Operate Mower Unless Guard Or Grass Catcher Is In Its Proper Place.



FIGURE 17.

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

NOTE

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



The battery contains corrosive fluid and toxic material. HANDLE WITH CARE. Keep away from children. Do not puncture, disassemble, mutilate or incinerate. Explosive gases could be vented during charging or discharging. Use in a wellventilated area, away from sources of ignition.

FIRST AID—If battery liquid comes in contact with skin or clothing, follow these instructions. External Contact: Immediately flush skin or eyes with water for at least 15 minutes. Internal: Drink tap water, milk or milk of magnesia. Take egg whites. In case of internal or external contact, call a physician immediately.

- Charge battery for 48 hours before initial use. Thereafter, charge battery for a minimum of 24 hours and a maximum of 72 hours whenever necessary. For best results, charge the battery within the temperature limits of 40°F to 105°F.

This is a **6 volt** electrical system. Use only the battery charger supplied with this unit.

To charge the battery, proceed as follows. See figure 18.

Always plug charger lead into battery before inserting battery charger plug into 120 volt standard household outlet.

After charging, disconnect battery charger plug from household outlet first, then disconnect charger lead from battery.



FIGURE 18.

- 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.
- 5. Before each use, check for proper drive clutch operation by performing the following before starting the engine:

With the drive clutch control released, push mower forward. It should move freely. Pull mower backward. It should move freely.

With the drive clutch control engaged (lever squeezed against upper handle), push mower forward. It should move freely. Pull mower backward. The rear wheels should lock up. If they do not, adjust the clutch control as specified under Drive Clutch Control Adjustment on page 11.

TO START ENGINE AND ENGAGE BLADE



When starting the unit for the first time, face the mower against a solid object such as a wall, fence, etc. Start the unit, and if it shows any signs of motion with the drive clutch control disengaged, shut the engine off immediately. Check the position of the drive clutch control cable. The plastic fitting must be assembled in the first adjustment position inside the housing, all the way to the right, as shown in figure 9.

- 1. Move the throttle control lever to FAST or START position.
- 2. Standing behind the unit, depress the blade control handle and hold it against the upper handle as shown in figure 19.
- 3. Turn the ignition key to the right to start the engine. Release the key after engine starts.
- 4. After engine starts, move throttle control to desired engine speed.



FIGURE 19.

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

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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.



IMPORTANT

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.

DRIVE CLUTCH CONTROL ADJUSTMENT

If the unit does not self-propel with the drive clutch control engaged, remove the plastic cap from beneath the drive clutch control housing. Move the plastic fitting on the control cable to the next adjustment position on the left. Reassemble the plastic cap and retest. See figure 20.



FIGURE 20.

CUTTING HEIGHT ADJUSTMENT

A single lever adjusts all four wheels at one time. Cutting height adjustment is made by moving the height adjustment lever away from the engine and then forward or backward. The lever will lock in one of seven cutting heights, from 1" to 3". See figure 21.



FIGURE 21. CUTTING DECK ADJUSTMENT

An adjustment is provided on the left side of the upper deck, next to the front and rear wheels, so that an even cut may be obtained. This adjustment compensates for wear or use of the grass catcher. See figure 21.

To level the deck, loosen (do not remove) the selftapping screw. Depress the pivot bracket so that the tab comes out of the adjustment hole. Pivot the bracket up or down as necessary, selecting one of the five adjustment holes. Release the bracket, and tighten the self-tapping screw securely. Both front and rear brackets should be in the same relative position.

THROTTLE

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

- 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



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 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



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 cable at least once a season with light oil. The blade 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.

Chain—Periodically lubricate the chain with appropriate chain lubricant. A stiff or rusted chain can be restored by removing the master link, soaking the chain in kerosene or a solvent, letting it air dry and wiping the chain with a rag saturated with lubricant.

If the rotary mower is operated in a sandy area, the chain should not be lubricated with oil. Excessive oil on a chain will collect dirt and cause excessive wear on the chain and sprockets.

Rear Wheel Drive—Both rear wheels are driven by a pawl and ratchet drive. Lubricate the pawl and ratchet once a season with a silicone type lubricant.

Figure 22 shows the right rear hub cap. To take off the rear hub caps, remove the four screws around the edge of the hub cap. A cotter pin holds the ratchet in place. The pawl must pivot freely. Clean with a solvent, replace any broken or worn parts and lubricate.

The pawl and ratchet on the left rear hub cap are assembled facing the opposite way.

After reassembling, test the operation of the drive without the engine running. Engage the clutch and pull the mower backwards. Both wheels should lock. Push the mower forward and both wheels should rotate.



The wheels will "click" when the mower is pushed forward.



FIGURE 22.

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



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.



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 unblanced 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.

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 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 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 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.

STORAGE OF THE BATTERY

The battery must be stored with a full charge. A discharged battery will freeze.

All batteries discharge during storage.

Recharge battery every two months and before returning to service. Refer to charging instructions on page 10.

BELT REPLACEMENT



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

- 1. Place a piece of plastic film under the gasoline cap and tighten it. The plastic prevents gasoline from draining from the air vent in the cap.
- 2. Tip the mower forward. Place the handle of the mower against a bench so that the bottom of the deck can be reached.
- 3. Remove the center bolt on the blade and slide off the blade and adapter. See figure 23.



FIGURE 23.

4. Remove the four carriage bolts holding the lower deck to the frame. See figure 24.



FIGURE 24.

5. Remove the two screws holding the belt guard cover on top of the deck. See figure 25.



FIGURE 25.

6. Unhook the belt from the idler pulley. See figure 26.



When reassembling the idler pulley and belt guard cover, place a wire hook under the belt. Pull up on the hook, and slip the idler pulley under belt. See figure 26.

7. Remove the belt from the engine pulley.



FIGURE 26.

8. Remove both rear wheel hub caps by removing the four screws on each one. See figure 27.

NOTE

Mark the hub caps right and left. They are not interchangeable.



FIGURE 27.

9. Remove the cotter pin on the RIGHT WHEEL ONLY and remove the ratchet. See figure 28.



Mark the outside of the ratchet so it is not assembled backwards or refer to figure 28 for reassembly.



FIGURE 28.

10. Remove the large shoulder bolt and chain master link. See figure 29.



FIGURE 29.

11. Remove the cotter pin next to the bearing by the left wheel and slide the axle to the left. The belt can be removed. See figure 30.



FIGURE 30.

12. Reassemble in reverse order with new belt.

13. Remove plastic film from gas tank cap.

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.
- 5. Refer to battery storage instructions on page 14.

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 3). 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.





296

Model 269

PARTS LIST FOR MODEL 296 ROTARY MOWER

| NEF. | PART COLOF NO. CODE | | NEW PART | REF. | PART (NO. | COLOR CODE | DESCRIPTION | NEW |
|------------|------------------------|---|-------------|----------|------------------|---------------|---|-----|
| × 1 | 11679 | Chute Deflector Ass'y. | | 49 | 12936 | | Handle Mount Brkt. Ass'y. | |
| n | 11130 | Comp. | | 50 | 14186 | | Belt Guard | |
| 2 3 | 711-0555 | Adapter Plate Pivot Pin | | 51 | 710-022 | 24 | Hex Hd. Self-Tap Scr. #10 | |
| 4 | 726-0106 | Push Nut 1/4 " Rod | | 52 | 748-018 | 37 | x .50 Lg. Ratchet—Rear Wheel | |
| 5 | 732-0253 | Torsion Spring | | 53 | 736-016 | | Fl-Wash531" I.D. x .930" | |
| 6 7 | 718-0145 | Black Grip | | | | | O.D. x .050 | |
| 8 | 731-0586 | Hub Cap (Front) Rear Flap Ass'y. | | 54 | 750-019 | 90 | Spacer .765" I.D. x .89" O.D. | |
| ğ | 731-0610 | Control Handle—R.H. | N | 55 | 715-014 | 14 | x .960" Lg. | |
| 10 | 734-0874 | Wheel Ass'y. Comp.—(Front) | | | 110014 | ** | Spring Pin Špir. 3/16" Dia. x 1.50" Lg. | |
| 11 | 741-0180 | Flanged Ball Brg. 500" I.D. (Front) | | 56 | 741-032 | 24 | Hex Flange Brg. x .506" I.D. Plastic | |
| 12 | 734-0880 | Wheel Ass'y. Comp(Rear) | | 57 | 746-046 | 64 | Clutch Cable—59.0" Green | |
| 13 | 741-0262 | Flange Brg.—Plastic 1/2" I.D. | | 58 | 725-020 | | Ignition Key | |
| 1.4 | 742 0124 | (Rear) | | 59 | 725-087 | 73 | Ignition Switch w/Nut | N |
| 4 5 | 742-0124 746-0417 | 21" Blade Throttle Wire—43.0" Yellow | N | 60 | 15392 | | Ignition Switch Bracket | N |
| 6 | 749-0373 | Lower Handle | N | 61 | 710-016 | רו | Carriage Bolt 5/16-18 x 1.25" Lg.* | |
| 17 | | Engine | | 62 | 736-011 | 9 | Lg. L-Wash. 5/16″ I.D.* | |
| 8 | 10622 | Spring—Nylon | | .63 | 14939 | | Upper Deck Ass'y. | |
| 9 20 | 10647 710-0748 | Hub Cap—(Rear) Pan Hd. Tap Scr. #12 x .50" | | 64 | 710-025 | | Hex Bolt 1/4-20 x .75" Lg.* | |
| .0 | 110-0140 | Lg. | i i | 65 66 | 710-035 | | Hex B-Tap Scr. 1/4 x .38 | |
| !1 | 712-0324 | Hex Ins. L-Nut 1/4-20 Thd. | | 00 | 7 10-000 | /4 | Hex Wash. Hd. TT-Tap Scr. 3/8-16 x 1.00" Lg. | |
| !2 | 738-0137 | Shid. Bolt .342 Dia. x .268 | | 67 | 710-077 | 6 | Hex Wash. Hd. AB-Tap Scr. | |
| :3 M | 748-0188 10080 | Pawl | | | | | ¼ x .62″ Lg. | |
| 4.5 | 10662 | Height Adjustment Rod Front Axle Ass'y. | | 68 69 | 712-027 | | Sems Nut 1/4-20 Thd.* | |
| :6 | 10666 | Height Adjustment Lever | | 09 | 736-017 | 3 | FI-Wash281" I.D. x .73" O.D. x .063 | |
| 27 | 14189 | Front Pivot Brkt. | | 70 | 736-021 | 1 | Fl-Wash285" I.D. x 1.25" | |
| :8 :9 | 14190 | Rear Pivot Brkt. | | | | | O.D. x .060 | |
| .9 | 710-0654 | Hex Wash. Hd. TT-Tap Scr. 3/8-16 x 1.00" Lg. | | 71 72 | 14851 | | Battery Brkt. | N |
| -0 | 712-0200 | Hex Ins. L-Nut 1/2-20 Thd. | | 73 | 14852 710-064 | 2 | Battery Strap Hex TT-Tap Scr. 1/4-20 x .75" | N |
| 1 | 712-0711 | Hex Jam Nut 3/8-24 Thd. | | | 710.004 | ~ | Lg. | |
| 2 3 | 712-0798 | Hex Nut 3/8-16 Thd.* | | 74 | 710-077 | 6 | Hex Wash. Hd. AB-Tap Scr. | |
| 4 | 714-0507 720-0143 | Cotter Pin 3/32 x ¾″ Lg.* Grip Black | | 75 | т. | - | 1⁄4 x .62″ Lg. | |
| | 732-0121 | Extension Spring .73" O.D. | | 75 76 | † † | | Battery-6V Wire Harness | |
| | | x 4.31″ Lg. | | 77 | 736-032 | 9 | L-Wash. 1/4 " I.D.* | |
| 6 | 735-0127 | Rubber Wash33" I.D. x .87" | | 78 | 714-010 | | Intern. Cotter Pin 5/16" Dia. | |
| 7 | 736-0105 | O.D. Bell-Wash400" I.D. x .88" | | 79 | | | Battery Charger-6V x 120V | |
| • | 100 0100 | O.D. | | 80 81 | 726-019 | | Cable Tie Curved Hd. Carr. Bolt 5/16-18 | |
| 8 | 736-0160 | FI-Wash531" I.D. x .930" | | · • • | 110-007 | ' | x 1.38" Lg. | |
| | 706 0100 | O.D. (| | 82 | 712-026 | | Hex Nut 5/16-18 Thd.* | |
| | 736-0169 736-0221 | L-Wash. 3/8" I.D.* L-Wash. 3/8" x .56" O.D. | | 83 | 726-021 | | Snap-On Scr. #8 x .38" Lg. | |
| | 738-0149 | Shid. Bolt .625" Dia. x .425" | | 84 85 | 731-063 14924 | 5 | Engine Shroud Ass'y. | N |
| | | Lg. | | 86 | 728-017 | i | Cable Bracket Pop Rivet .156" Dia. x .379 | N |
| 2 | 748-0190 | Spacer .513" I.D. x .703" | · | | | • | Lg. | |
| 3 | 11425 | O.D. x .69" Lg. | | 87 | 746-0478 | | Control Cable—49.0" Blue | Ν |
| | 710-0260 | 21" Lower Deck Ass'y. Carriage Bolt 5/16-18 x .62" | | 88 | 710-079 | b | Truss Mach. Hi-B Tap Scr. | |
| | | Lg.* | | 89 | 710-084 | 1 | #12 x 1.50" Lg. Flat C-Sunk AB-Tap Scr. | |
| | 712-0267 | Hex Nut 5/16-18 Thd.* | | | | • | #10 x .75" Lg. | |
| | 736-0119 12935 | L-Wash. 5/16" I.D.* | | 90 | 726-013 | | Cap Speed Nut 5/16" Rod | |
| | 710-0603 | Handle Mount Brkt. Ass'y. Hex Wash. Hd. B-Tap Scr. | | 91 92 | 731-0523 | | Control Panel Half | |
| - | | 5/16-18 x .50" Lg. | | 92 | 731-0524 | | Control Disc Pin Clutch Panel Half | |
| Drd | er From Brigg | s and Stratton Authorized | l | | | - | | |

Order From Briggs and Stratton Authorized Service Dealer.

)96 Model **269**

PARTS LIST FOR MODEL 296 ROTARY MOWER (CONTINUED)

| REF. NO. | PART NO. | COLOR CODE | DESCRIPTION | NEW PART |
|-------------|-------------|---------------|---|-------------|
| 94 | 731-05 | 28 | Throttle Control Lever | |
| | 731-06 | | Control Cover Half—Upper | N |
| | 731-06 | | Control Cover Half—Lower | N |
| 97 | 731-06 | 19 | Cable Mtg. Cap | N |
| | 731-06 | 20 | Control Lever | N |
| | 749-05 | 37 | Upper Handle | N |
| | 710-04 | 36 | Hex B-Tap Scr. #10 x .62" Lg. | 1 |
| | 751-03 | | Casing Clamp | |
| 102 | 710-08 | | Hex Bolt 5/16-24 x 1.00" Lg. (Grade 5) | |
| 103 | 710-03 | 31 | Hex Bolt 3/8-24 x 2.25" Lg. (Grade 5) | |
| 104 | 712-01 | 23 | Hex Nut 5/16-24 Thd.* | |
| 105 | 753-03 | 48 | Blade Adapter Kit | N |
| 106 | 736-02 | 17 | L-Wash. 3/8" I.D. Heavy Duty | |
| 107 | 736-01 | 19 | L-Wash. 5/16" I.D.* | |
| 108 | 710-08 | 71 | Hex Sems Bolt #10-32 x .38" Lg. | N |
| 109 | 712-02 | 87 | Hex Nut 1/4-20 Thd.* | |
| 110 | 710-05 | 97 | Hex Bolt 1/4-20 x 1.0" Lg.* | |
| 111 | 725-08 | 74 | Solenoid—6V | N |
| 112 | 725-08 | 72 | Wire Harness | N |
| 113 | 750-02 | 87 | Spacer | |
| 114 | 15735 | | Rear Flap Stop Brkt. (Not Shown) | N |

*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-11428 (462).)

****Optional Front Hub Caps**

| Color | Part No. |
|--------|----------|
| Red | 731-0124 |
| Orange | 731-0254 |
| Black | 731-0354 |
| Gray | 731-0355 |



NOTE ction manual covers

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.

Model 296

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PARTS LIST FOR MODEL 296 ROTARY MOWER

| REF. <u>NO.</u> | PART COLOR NO. CODE | DESCRIPTION | NEW PART | | PART COLOR NO. CODE | | NEW PART |
|--------------------|------------------------|---|-------------|----|------------------------|-------------------------------------|-------------|
| 1 | 14181 | ldler Brkt. Ass'y. | | 23 | 11866 | Rear Shaft Ass'y. | |
| 2 | 14245 | Idler Mounting Brkt. | | 24 | 14937 | Rear Axle Ass'y. | N |
| 3 | 14186 | Belt Guard | | 25 | 710-0421 | Set Scr. 5/16-18 x .25" Lg. | |
| 4 | 710-0776 | Hex Wash. Hd. AB-Tap Scr. | | _ | | Cup Point | |
| | | 1⁄4″ x .62″ Lg. | | 26 | 711-0169 | Collar 5/8" I.D. | |
| 5 | 712-0267 | Hex Nut 5/16-18 Thd.* | | 27 | 741-0249 | Flange Brg634" I.D. Plastic | |
| 6 | 714-0115 | Cotter Pin 1/8" Dia. x 1.00" | | 28 | 10665 | Spacer | |
| 7 | 732-0357 | Extension Spring .33" O.D. x 1.12" Lg. | | 29 | 756-0191 | Pulley w/9 Tooth Sprocket Ass'y. | |
| 8 | 736-0119 | L-Wash. 5/16" I.D.* | | 30 | 711-0494 | Spacer .53" I.D. x .75" O.D. | |
| 9 | 736-0160 | FI-Wash531" I.D. x .930" | | •• | | x .38" Lg. | |
| | | O.D. x .050 | | 31 | 713-0256 | #48 Chain 1/2" Pitch x 32 | |
| 10 | 738-0255 | Shld. Bolt .375" Dia. x 1.89 | | | | Links | |
| 11. | 746-0464 | Clutch Cable—59" | | 32 | 714-0115 | Cotter Pin 1/8" Dia. x 1.00" | |
| 12 | 756-0360 | Flat Idler 1.62" Dia. | | | | Lg.* | |
| 13 | 734-0880 | Wheel Ass'y. Comp. (Rear) | | 33 | 715-0144 | Spring Pin Spir. 3/16" Dia. x | |
| 14 | 741-0262 | Flange Brg. 1/2" I.D. (Rear) | | | | 1.50″ Lg. | |
| 15 | 10622 | Spring—Nylon | | 34 | 736-0160 | FI-Wash531" I.D. x .930" | |
| 16 | 10647 | Rear Hub Cap | | | | O.D. x .050 | |
| 17 | 710-0748 | Pan Hd. Tap Scr. #12 x .50" | | 35 | 748-0187 | Ratchet—Rear Wheel | |
| 18 | 712-0324 | Hex Ins. L-Nut 1/4-20 Thd. | | 36 | 741-0324 | Hex Flange Brg506" I.D. | |
| 19 | 738-0137 | Shid. Bolt .342" Dia. x .268 | | 37 | 750-0190 | Spacer .756" I.D. x .89" O.D. | |
| 20 | 748-0188 | Pawl | | | | x .960″ Lg. | |
| .1 | 710-0200 | Hex Wash. Hd. Tap Scr. #8 x | | 38 | 754-0114 | "V"-Belt 1⁄2" x 24" Lg. | |
| ~ | 700.01.00 | .50″ Lg. | | 39 | 756-0384 | 1/2" "V"-Pulley .50" I.D. x | |
| 22 | 738-0149 | Shid. Bolt .625" Dia. x .425" | 1 | | | 2.52″ O.D. | |
| | | | | | | | |



†Order From Briggs and Stratton Authorized Service Dealer.

PARTS INFORMATION

POWER EQUIPMENT PARTS AND SERVICE

Parts and service for all MTD manufactured power equipment 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 fin 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 2625 4th Ave. S |
|---|---|
| Auto Electric & Carburetor Co ARKANSAS Sutton's Lawn Mower Shop CALIFORNIA Billious | |
| Sutton's Lawn Mower Shop | 5301 Boundton Drive |
| | Box 368. Rt. 4 |
| CALIFORNIA | PORTERVILLE |
| Billious | 75 North D Street 93257 |
| COLUMADO | |
| Spitzer Industrial Products Co | Box 29114, 6601 N. Washington St 80229 |
| | N. Washington St 80229 |
| FLORIDA Radco Distributors | 4000 Victor St |
| | Dov 5450 30007 |
| | OPA LOCKA |
| Small Eng. Dist | OPA LOCKA 2351 N.W. 147th St 33054 EAST POINT 2834 Church St 30344 |
| GEORGIA | EAST POINT |
| East Point Cycle & Key | 2834 Church St 30344 |
| ILLINOIS | LYONS |
| Keen Edge Co | |
| INDIANA Barta & Salas Inc | ELKHART 2101 Industrial Pkwy46514 |
| IOWA | DUBUQUE |
| Power Lawn & Garden Equip. | DUBUQUE |
| LOUISIANA | MONROE |
| Mid-South Power | MONROE |
| | NEW ORLEANS |
| Suhren Engine Co. | |
| MARYLAND Center Supply Co. | 6867 New Hampshire |
| | Ave |
| MASSACHUSETTS | SPRINGFIELD |
| MASSACHUSETTS Morton B. Collins Co. | 300 Birnie Ave 01107 |
| MICHIGAN | LANSING |
| Lorenz Service Co. | LANSING 2500 S. Pennsylvania 48910 |
| D. D. Jama and Diat | MOUNT CLEMENS |
| MINNESOTA | |
| Hance Distributing Inc. | HOPKINS 420 Excelsior Ave. W55343 |
| MISSISSIPPI | BILOXI |
| Biloxi Sales & Service, Inc | BILOXI |
| | |
| Automotive Equip. Service | 3117 Holmes St |
| Base Freedor Supply Co | ST. JOSEPH 8th and Monterey64503 |
| Ross-Frazier Supply Co | ST LOUIS |
| Henzler Inc | 2015 Lemay Ferry |
| | ST. LOUIS 2015 Lemay Ferry Road |
| NEW JERSEY | BELLMAWR |
| Lawnmower Parts Inc. | Road |
| NEW MEXICO | ALBUQUERQUE 1023 Third Ave. N.W87103 |
| Spitzer Eng. & Parts | CARTHAGE |
| NEW YORK | CARTHAGE West End Ave |
| Gample Dist., mc | |

| NORTH CAROLINA | GOLDSBORO 515 N. George St 27530 |
|--------------------------------|---|
| Smith Hardware Co | 515 N. George St 27530 |
| | GREENSBORO |
| Dixie Sales Company | |
| OHIO | CARROLL |
| Stebe's Mid-State Mower Suppl | y . Box 366, 71 High St43112 CLEVELAND |
| Blackrie Inc | |
| Bleckne, Inc. | WADSWORTH |
| National Central | WADSWORTH 687 Seville Rd |
| | |
| Burton Supply Co. | 1301 Logan Ave. Box 929 |
| Buiten euppij een terme | Box 929 |
| | MUSKOGEE |
| Victory Motors, Inc. | 605 S. Cherokee 74401 |
| OREGON | PORTLAND |
| Kenton Supply Co | |
| PENNSYLVANIA | HARRISBURG 4021 N. 6th St 17110 |
| EECO Inc. | 4021 N. 6th St 17110 |
| | PHILADELPHIA 5222-24 N. Fifth St 19120 |
| Thompson Rubber Co. | |
| Diversent Co | PITTSBURGH 11125 Frankstown Rd 15235 |
| | PHNXSULAWNEY |
| Frank Roberts & Sons | R.D. 2 |
| TENNEGGEE | KNOXVILLE |
| Master Repair Service | 2000 Western Ave 37921 |
| | MEMPHIS |
| American Sales & Service, Inc. | 3035-43 Bellbrook 381 |
| TEXAS | DALLAS |
| Marr Brothers, Inc. | DALLAS |
| | FORT WORTH 1702 N. Sylvania76111 |
| Woodson Sales Corp | HOUSTON |
| Bullard Supply Co | |
| Bullard Supply Co | SAN ANTONIO |
| Engine House Inc | 8610 Botts Lane |
| Engine riedee men | P.O. Box 17867 |
| UTAH | SALT LAKE CITY |
| A-1 Engine & Mower Co | 439 E. 900 So |
| VIRGINIA | ASHLAND |
| RBI Corp. | Lake Ridge Rd. |
| • | 101 Cedar Bun Dr |
| WASHINGTON | SEATTLE |
| Bailey's Inc | 1414 14th Ave |
| WISCONSIN | MARSHFIELD 301 E. 29th St |
| Power Pac | 301 E. 29th St |
| | APPLETON |
| Appleton Automotive Supply C | P.O. Box 798 |
| | TWIN LAKES |
| E-K on Small Engine Spec | 122 Lance Dr |
| E-N OII SIIIan Engine Spec | |

WARRANTY PARTS AND SERVICE POLICY

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:

(0782)

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

MTD PRODUCTS • P.O. BOX 36900 • CLEVELAND, OHIO 44136