FORM NO. 3310-748 Rev. A

TORO®

MODEL: 17005—700001 & UP
MODEL: 17046—700001 & UP

OPERATOR'S MANUAL

16" CAREFREE ELECTRIC®

Congratulations on your purchase of the CARE-FREE ELECTRIC, battery-powered mower by TORO. It's the finest battery-powered mower available today, designed and built for high-quality grass cutting performance.

To assure maximum safety, optimum performance, and to gain knowledge of the product, it is essential that you or any other operator of the mower read and understand the contents of this manual before the motor is ever started. Pay particular attention to the SAFETY INSTRUCTIONS highlighted by this symbol —



The symbol means CAUTION, WARNING or DANGER — personal safety instruction. Failure to comply with the instruction may result in personal injury.



MODEL CONFORMS TO SAFETY STANDARDS PROGRAM SPONSORED BY Outdoor Power Equipment Institute
MODEL TESTED BY INDEPENDENT LABORATORY

PRICE $1.00

FOREWORD

The CAREFREE ELECTRIC mower is cordless, gasless, and practically maintenance free. The mower has advanced concepts in engineering, design, and safety; and with a minimum of maintenance, the mower will give excellent service.

Since the CAREFREE ELECTRIC is a high-quality product, Toro is concerned about the future use of the mower and safety of the user. Therefore, read this manual to familiarize yourself with the safety instructions and all aspects of the product before the mower is set up, operated or maintained. The six major sections of the manual are:

1. Safety Instructions
2. Setting Up Instructions
3. Controls
4. Starting/Stopping Instructions
5. Operating Instructions
6. Maintenance

Note that safety, mechanical, and some general information in the manual is emphasized. The words DANGER, WARNING, CAUTION, IMPORTANT and NOTE are used to classify the information. DANGER, WARNING and CAUTION identify safety related information; IMPORTANT identifies special mechanical information; and NOTE identifies general information worthy of special attention.

If help — concerning set-up, operation, maintenance, or safety — is ever needed, contact a local Authorized TORO Service Dealer or Distributor. Refer to the "Yellow Pages" for assistance. In addition to skilled service technicians, the dealer and distributor have other TORO Products, as well as factory-approved accessories and replacement parts. Keep your Toro all TORO. Buy genuine TORO replacement parts and accessories.

TABLE OF CONTENTS

	Page
Safety Instructions	3, 4
Specifications	5
Loose Parts	5
Setting Up Instructions	6 - 8
Controls	9
Starting/Stopping Instructions	9
Operating Instructions	10, 11
Adjusting Height-of-Cut	10
Rear Safety Shield	10
Battery Characteristics	10
Motor and Circuit Breaker	11
Optional Grass Bag	11
Maintenance	12 - 15
Removing/Installing Battery	12
Maintaining/Charging Battery	12
Lubricating Wheel Bushings	13
Cleaning Underside of Mower Housing	13
Servicing Cutter Blade	14
Preparing Mower For Storage	14
Trouble Shooting	15
Identification and Ordering	Back Cover
The Toro Promise	Back Cover

COPYRIGHT 1977 BY
The Toro Company
MINNEAPOLIS, MINN. 55420 — U.S.A.

SAFETY INSTRUCTIONS



This safety symbol means CAUTION, WARNING or DANGER – "personal safety instruction". Read and understand the instruction because it has to do with safety. Failure to comply with the instruction may result in personal injury.

The following instructions are comparable to the "Instructions for Safe Mowing" adopted by ANSI – American National Standards Institute. The mower is designed and tested to offer reasonably safe service. Failure to operate the mower in accordance with these Safety Instructions MAY RESULT IN PERSONAL INJURY.

BEFORE OPERATING

1. Read and understand the contents of this manual before starting and operating the mower. Become familiar with all controls and know how to stop mower quickly. NEVER ALLOW CHILDREN TO OPERATE THE MOWER.

2. Keep everyone, especially children and pets, away from the area of operation. Remove sticks, stones, wire and any other debris or objects that might be picked up and thrown by the mower.

3. Keep all shields and safety devices in place. If a shield, safety device or decal is defective or damaged, repair or replace it before operation is commenced. Also tighten any loose nuts, bolts and screws.

4. Wear long pants and substantial shoes. Do not operate the mower while barefoot, wearing sandals, tennis shoes, sneakers or shorts.

5. Activate the battery by using the instructions in this manual.

WHILE OPERATING

6. Do not operate the mower if someone is near the turf area to be cut.

7. Cutting grass with a rotary mower demands attention. Always maintain secure footing, balance and control.

8. Cut grass during the daytime or when there is adequate artificial light. Do not cut wet grass: cut grass when it is dry.

9. Cut grass slopes from side to side; not up and down. Avoid steep slopes.

10. Keep face, hands, feet and any other part of the body or clothing away from concealed, moving, or rotating parts such as the cutter blade and motor. Stay behind the handle while operating the mower. Stay away from discharge opening.

11. Shut motor off and wait for the blade to stop before removing the bagging assembly or unclogging the discharge chute. If chute must be unclogged, use a stick to remove the obstruction.

12. Since the blade rotates for a few seconds after motor is shut off, stay behind handle until motor and all moving parts stop.

13. If a solid object is hit by the blade or if mower vibrates abnormally, shut motor off immediately and wait for all moving parts to stop. Remove key from switch to prevent possibility of accidental starting. Remove battery from mower housing and check mower for possible damage, bent blade, an obstruction or loose part(s). Make all repairs before using the mower.

14. Do not adjust the height-of-cut while the motor is running.

15. If a gravel driveway, road or side walk must be crossed, shut motor off so loose sand and rocks are not thrown.

16. Before leaving the operator's position – behind handle – shut motor off and wait for all moving parts to stop. Remove key from control box to prevent possibility of accidental starting.

MAINTAINING MOWER

17. Before performing any maintenance or servicing the mower, disconnect wires from battery; then remove battery from battery box. Also remove key from control box.

18. Perform only those maintenance instructions described in this manual. If major repairs are ever needed or assistance is desired, contact an Authorized TORO Service Dealer.

19. If a guard, safety device or safety decal is damaged, replace it before operating the mower. Keep nuts, bolts and screws tight, especially the blade bolt and motor mounting bolts.

20. If mower must be tipped to perform a maintenance service or an adjustment procedure, REMOVE BATTERY FROM MOWER.

21. Check grass bag before each use to make sure it is not torn or deteriorated. Replace a defective grass bag. Do not wash the grass bag because the fabric may shrink, but most importantly, the fabric will likely deteriorate.

SAFETY INSTRUCTIONS

22. Remove key from control box when mower is stored. Keep key in a memorable place.

23. Do not drop the battery when removing it from the mower because acid may splash onto clothing, exposed skin, or into eyes. BATTERY ACID IS POISONOUS IF IT IS SWALLOWED; get medical attention quickly. BATTERY ACID ALSO BURNS EYES AND SKIN ON CONTACT: neutralize the acid with clean water and get immediate medical attention. Clothing will be damaged if it is contacted by battery acid.

24. If acid is spilled, neutralize it with a solution of baking soda and water.

25. Keep motor, battery and mower free of dirt, grass and any other foreign buildup.

26. Keep the blade sharp for best cutting results.

27. Have an Authorized TORO Service Dealer inspect and service the mower each year.

28. At the time of manufacture, the CAREFREE ELECTRIC conformed to safety standards in effect for rotary mowers. Therefore, to assure optimum performance and safety, purchase genuine TORO replacement parts and accessories to keep the Toro all TORO. NEVER USE "WILL FIT" REPLACEMENT PARTS AND ACCESSORIES. The TORO logo assures genuine TORO replacement parts and accessories.

Genuine
TORO®
PARTS & ACCESSORIES

ON CONTROL PANEL



ON GRASS DEFLECTOR



ON MOWER HOUSING





SPECIFICATIONS

American Bosch Motor: Model 09843-23-M030MM, four pole permanent magnet motor has a sleeve bearing on the armature and ball bearing on the output shaft. Maximum no load operating speed of motor output shaft is 3700 rpm.

Battery: Special deep cycle, water activated 12 volt battery has see-through case, manifold vent, and anti-explosive sintered silicon plug. Specially designed CAREFREE charger is used to charge battery.

Motor Shroud: Polypropylene shroud has holes in top for venting, is hinged at front and has positive rear latching feature.

Mower Housing: Die cast, aluminum alloy housing has spiral grass chamber, right side discharge and symetrical wheel locations. Steel grass discharge deflector and bar assembly is bolted to mower housing.

Width-of-Cut: Cutting width is 16 inches.

Cutter Blade: High carbon steel blade is heat treated for hardness.

Blade Tip Speed: Tip speed of blade under no load is 14,430 ft/min @3500 rpm of the output shaft. By comparison, tip speed of blade under 0.50 ft-lb is 13,193 ft/min @3200 rpm.

Wheels: Wheels are made of high density, linear polyethylene with integral polyethelene bushings.

Tires: Semi-pneumatic, 6.00" x 1.50" front tires and 7.00" x 1.50" rear tires have diamond tread.

On/Off Control: Control is key-actuated and has two positions: ON and OFF. Motor starts by compressing squeeze grip and moving key to ON position. When handle is released, motor shuts off and key returns automatically to OFF position.

Handle: Two separable handles are 3/4 inch diameter welded steel tubing with chrome plating. Upper handle has comfort grip made of vinyl. Handle is adjustable to one of three operating positions, an upright storage position, or wall mounting position that can also be used for storage.

Height-of-Cut: Height-of-cut is adjustable – by means of leaf spring lever – to one of six approximate settings: 1/2 inch; 1 inch; 1-1/2 inches; 2 inches; 2-1/2 inches; and 3 inches.

Dimensions Overall:

Width: 21-1/2 in. (approx)
Length w/o Handle: 28-1/2 in. (approx)
Height w/o Handle: 11-3/16 in. (approx)
Weight w/Battery: 52-1/2 lb

Optional Equipment: Grass Bagging Kit, part no. 23-6110, and Battery Kit, part no. 26-5780 can be purchased from an Authorized TORO Service Dealer.

LOOSE PARTS

Note: The plastic bag contains a wing nut, paper cup, battery charger and two control keys. The grass deflector is loose in the carton, and the registration card is tied to the mower.

Description	Qty	Use
Grass Deflector Wing Nut	1 1	Install Grass Deflector, page 7.
Paper Cup	1	Activate New Battery, pages 7 and 8.
Battery Charger	1	Connect Wires and Charge Battery, page 8.
Control Key (one spare)	2	Use to start motor.
Registration Card	1	Complete and send card to The Toro Company.

SETTING UP INSTRUCTIONS

REMOVE MOWER FROM CARTON

Tools Required: 1/2-Inch Wrench

1. Pivot upper and lower handles backward until both handles snap together (Fig. 1).



Figure 1

2. Let handles rest against carton and tighten both handle bolts and lock nuts (Fig. 2).

Note: Heads of handle bolts must fit curvature of handle to be installed correctly.

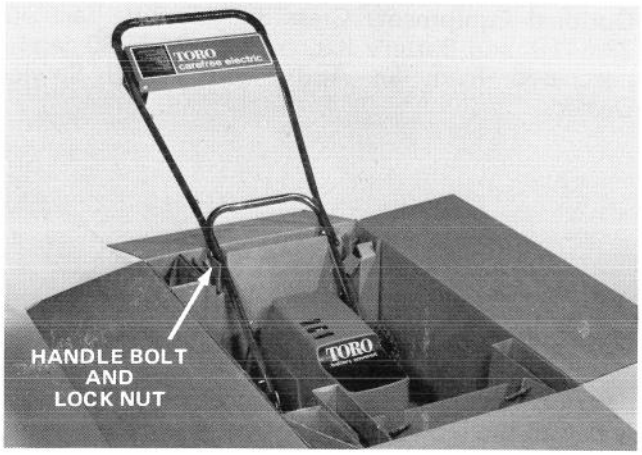

Figure 2

3. Remove all packing liners and grass deflector from inside of carton.

4. Move handle latches until handle studs snap into center latch hole (Fig. 3).

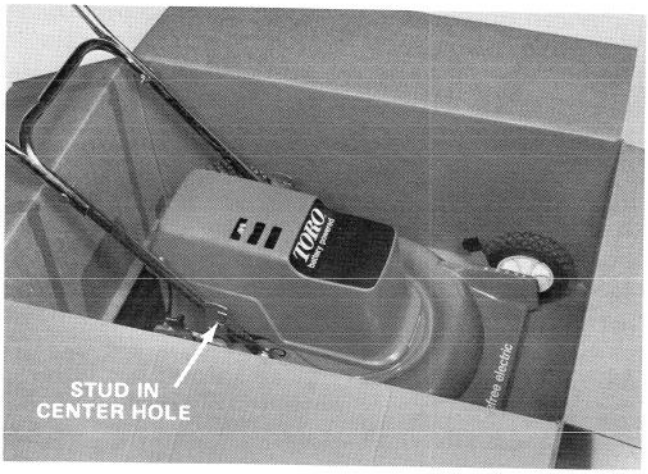

Figure 3

5. Carefully slit front of carton and push mower out (Fig. 4).

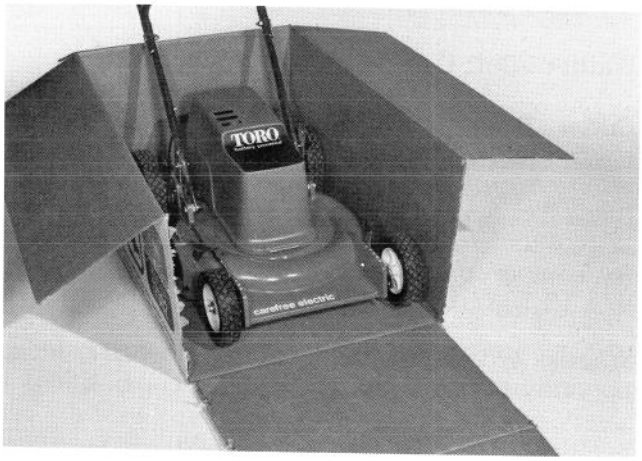

Figure 4

6. Set all wheels in "D" position. Step behind handle and check its height. If higher or lower handle height is desired, snap handle studs into one of the other holes in handle latches (Fig. 5).

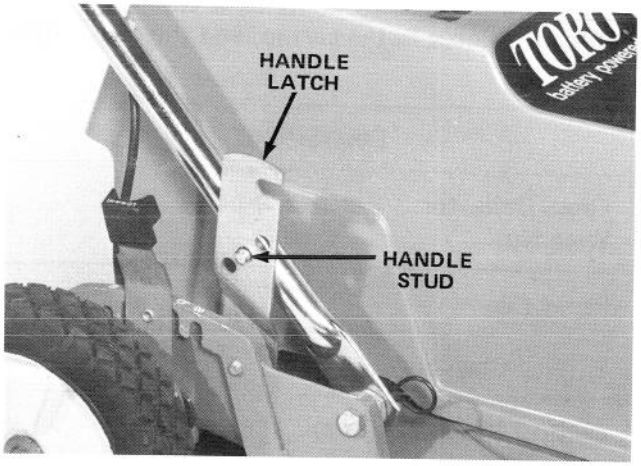

Figure 5

SETTING UP INSTRUCTIONS

INSTALL GRASS DEFLECTOR

Tools Required: None

1. Slide grass deflector onto threaded mounting bolt and locating pin (Fig. 6).

2. Secure deflector in place w/wing nut. Tighten wing nut securely (Fig. 6).

WARNING

Do not operate mower unless deflector or complete bagging assembly is installed on mower because these parts are safety devices.

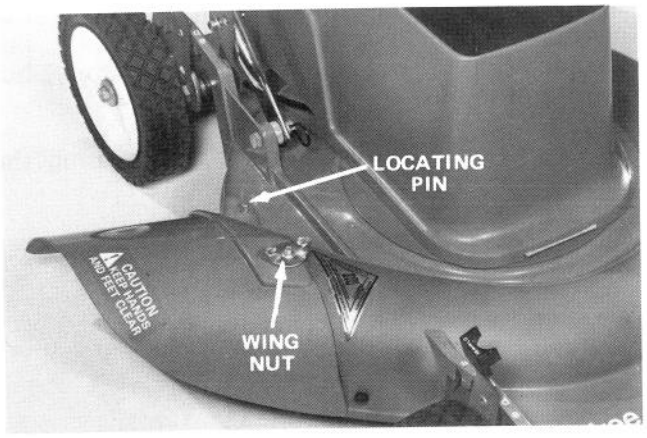

Figure 6

PREPARE NEW BATTERY FOR ACTIVATION

Tools Required: None

1. Open motor shroud by lifting up at rear, and remove white strap securing battery (Fig. 7).

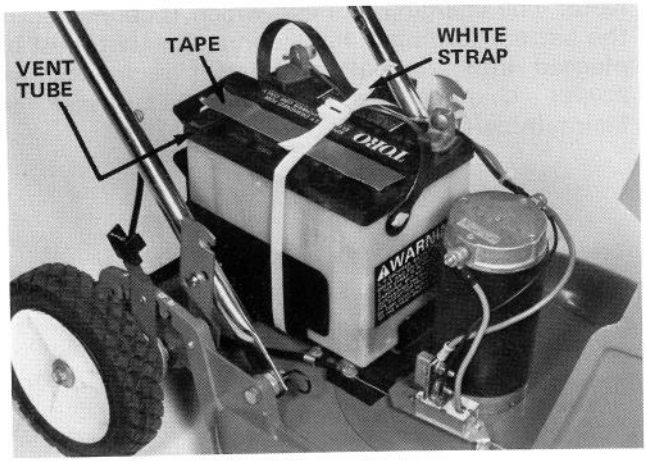

Figure 7

2. A strip of tape covers the filler caps, and under one end of the tape is the vent tube (Fig. 7). Remove tape and vent tube from top of battery. Keep vent tube and discard the tape.

3. Pull yellow/orange vent plug out of battery vent hole (Fig. 8).

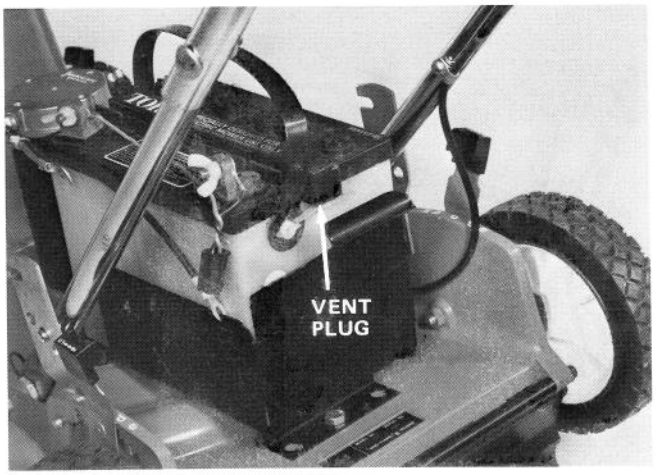

Figure 8

4. Push black vent tube fully into vent hole at end of battery (Fig. 9).

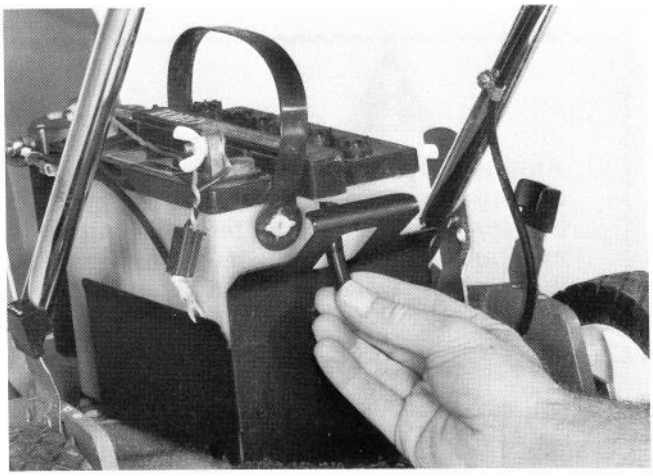

Figure 9

ACTIVATE NEW BATTERY

Tools Required: Clean Two Quart Container Full of Drinkable Water

1. The plastic bag of loose parts contains a cone shaped paper cup. Cut off end of cup so there is a 1/4 inch opening.

SETTING UP INSTRUCTIONS

2. Remove all filler caps from top of battery and insert end of cup into filler opening near rear of battery (Fig. 10).

3. Using drinkable water, fill battery cell carefully until water level rises to "MAX" mark on side of battery case (Fig. 10). Fill remaining five battery cells in the same manner.

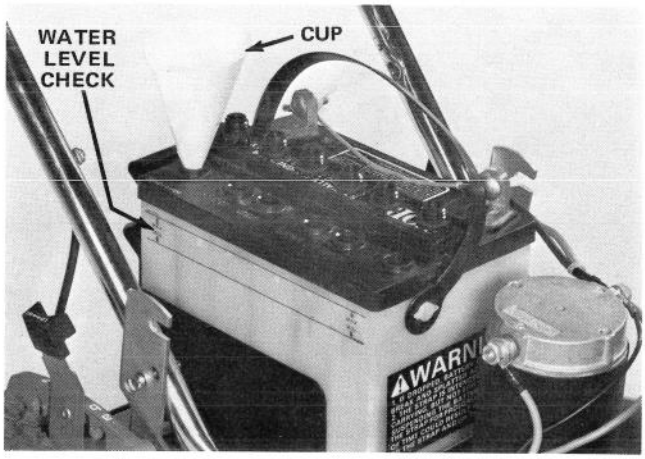

Figure 10

4. After filling battery with water, install the six filler caps tightly.

CAUTION

Although only water is added to the battery, the resulting solution inside the battery is acid. Since battery acid burns eyes and skin on contact, neutralize it with clean water and get immediate medical attention.

CONNECT WIRES AND CHARGE BATTERY

Tools Required: None

1. Loosen wing nuts on carriage bolts that extend through positive and negative battery terminals.

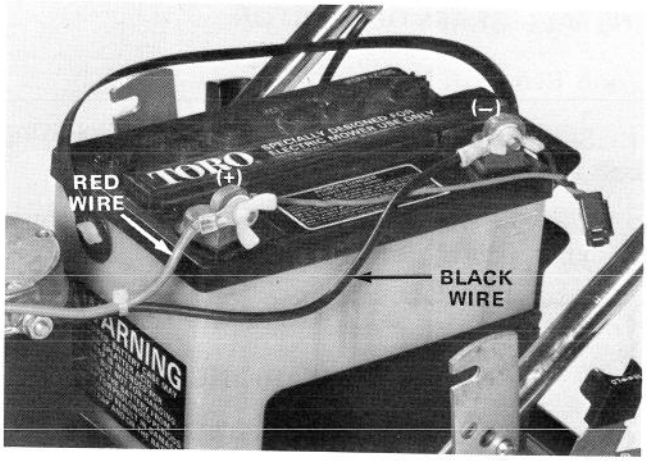

Figure 11

2. Slide connector at end of red wire onto positive terminal bolt and tighten wing nut securely (Fig. 11). Also slide connector at end of black wire onto negative terminal bolt and tighten wing nut securely (Fig. 11). Tighten wing nuts firmly, but be careful so nuts are not overtightened.

3. Charge new battery for 72 hours, using the special charger supplied with the mower.

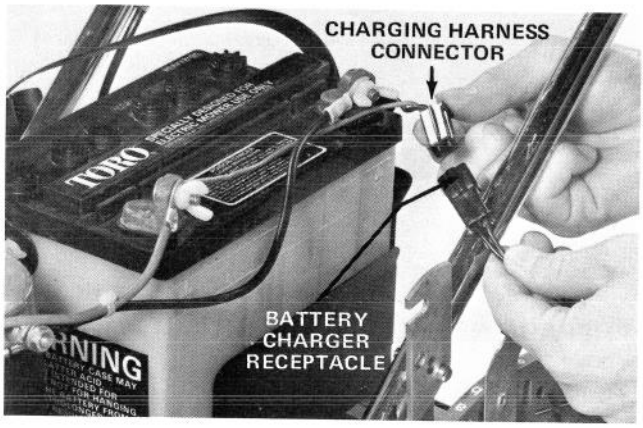

Figure 12

Note: The charging harness, which is connected to the battery terminals, has a connector that must be plugged into the battery charger receptacle for proper charging results (Fig. 12): refer to Maintaining/Charging Battery, page 12.

CONTROLS

Key (Fig. 13) – Used to activate switch control so motor can be started.



Figure 13

Safety Squeeze Grip (Fig. 14) – Safety Squeeze Grip is used with key to start motor, keep motor running and to shut motor off.



Figure 14

On/Off Control (Fig. 15) – Control has two positions: ON and OFF. The control key and safety squeeze grip are used to start the motor. When safety squeeze grip is compressed against handle, pull key backward to start motor.



Figure 15

Height-of-Cut Adjuster (Fig. 16) – Height-of-cut is adjustable to one of six approximate settings: 1/2 inch; 1 inch; 1-1/2 inches; 2 inches; 2-1/2 inches and 3 inches. Refer to Adjusting Height-of-cut, page 10, for additional information. Make sure all four wheels are in same height-of-cut information.

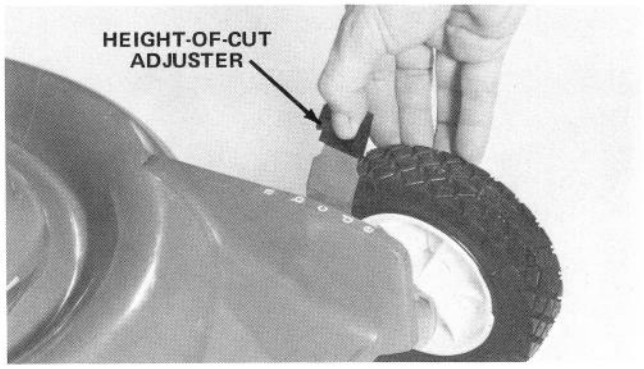

Figure 16

STARTING/STOPPING INSTRUCTIONS

1. Insert key into hole in red lever at the arrow position at side of control box (Fig. 13).

2. Compress safety squeeze grip against handle and pull key to ON position (Fig. 15). When motor starts release key. Motor will continue to run while safety squeeze grip is held against handle.

3. To stop the motor, release safety squeeze grip (Fig. 14). Key will move automatically to OFF position when grip is released. Remove key from control box whenever mower is unattended or not used.

CAUTION

Since blade continues to rotate for a few seconds after safety squeeze grip is released, stay behind the handle until all moving parts stop. Stay away from discharge area and do not get hands or feet close to mower housing while motor is running. Contact with a moving blade will cause personal injury.

OPERATING INSTRUCTIONS

ADJUSTING HEIGHT-OF-CUT

Most upright grasses grow best at about 2 inches and Bermuda grasses at 1½ inches long. By comparison, bent grasses are generally the only ones that should be mowed low – about 1 inch.

The six settings from 1/2 inch to 3 inches have letters and notches cast into the mower housing – near each wheel – to designate specific heights-of-cut. The letter "a" corresponds with the 1/2 inch setting and each subsequent letter raises height-of-cut by 1/2 inch. The 3 inch setting, however, is denoted by an arrow.

CAUTION

Shut motor off and wait for all moving parts to stop before adjusting the height-of-cut. Contact with a moving blade will cause personal injury.

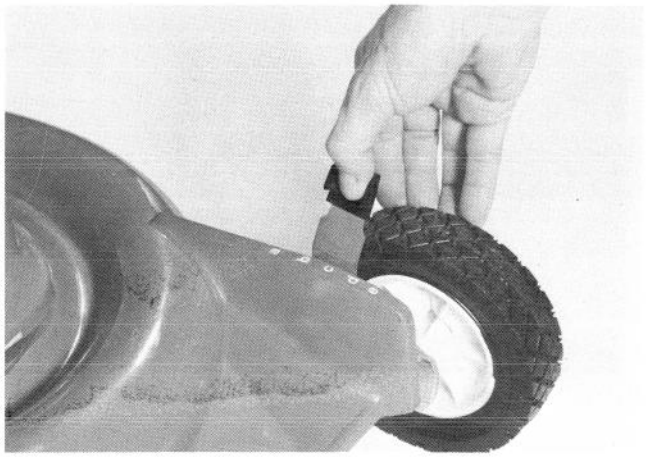

Figure 17

1. Place thumb against inside of pivot arm knob and fingers on outside of wheel (Fig. 17).

2. Pull pivot arm away from housing until locating stud disengages notch. Then move pivot arm to desired setting and release stud into notch in mower housing.

Note: If front wheels are being adjusted, raise front of housing to take pressure off the wheels. Similarly, raise rear of housing if rear wheels are being adjusted. This action will allow the wheels to be adjusted much easier than when they contact the turf.

3. Adjust all wheels to same height-of-cut.

REAR SAFETY SHIELD

CAUTION

The rear shield (Fig. 18) is a safety device; therefore, DO NOT REMOVE REAR SAFETY SHIELD FROM MOWER HOUSING. The shield protects the operator and pivots to ride over uneven turf without affecting mobility, even when backing up. If rear safety shield is ever damaged or does not operate properly, replace it before operating the mower. Without the shield mounted in place, debris or rocks could possibly be thrown rearward from under mower housing.

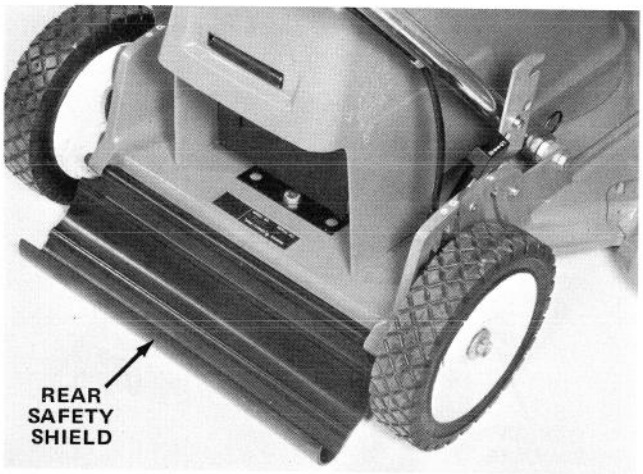

Figure 18

BATTERY CHARACTERISTICS

The CAREFREE ELECTRIC uses a special "deep cycle" lead acid battery. "Deep cycle" means that discharging the battery completely and subsequent recharging does not affect the battery adversely or shorten its longevity. The battery is made of special lead oxide plates, separators, and grids to provide maximum power and long life.

Although some automotive batteries look like a deep cycle battery, DO NOT USE AN AUTOMOTIVE BATTERY FOR THIS MOWER APPLICATION. Deep cycling, which means constant discharging and recharging, will damage an automotive battery; thus, short battery life and poor performance of the mower. By comparison, do not use a "deep cycle" battery for an automotive starting application. The battery chart (Fig. 19) shows the basic differences between a "deep cycle" and an automotive battery.

OPERATING INSTRUCTIONS

Battery Chart

Deep Cycle	Automotive
• Regularly Discharged	• Rarely Discharged
• Constant Current Demand For Long Duration	• High Rate of Discharge For Short Duration
• Cycled Each Use	• Rarely Cycled Completely

Figure 19

MOTOR AND CIRCUIT BREAKER

The motor uses current from the battery when the starting linkage is actuated. When grass is being cut, there is a load on the motor. If the motor is subjected to an overload, which can be caused by pushing the mower too fast, height-of-cut being set too low, or cutting thatch, the circuit breaker (Fig. 20) will "trip" a switch and subsequently stop the motor. Without the circuit breaker, the motor could burn out if it was overloaded. If the circuit breaker "trips", release safety squeeze grip and wait for one minute before trying to start motor again.

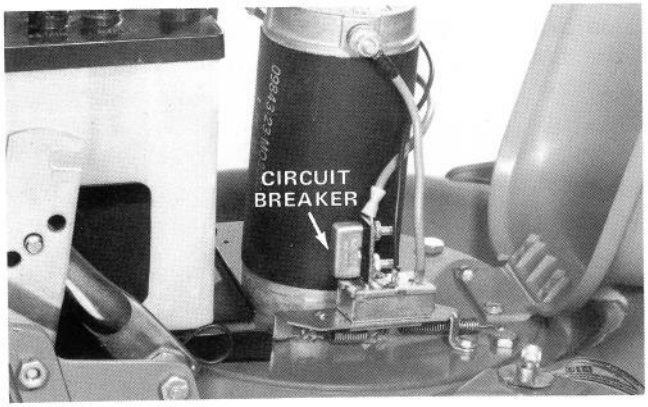

Figure 20

OPTIONAL GRASS BAG

CAUTION

Before installing, removing or emptying grass bag assembly, shut motor off. Since blade rotates for a few seconds after motor is shut off, stay behind handles until all moving parts stop; then remove key from control box.

1. Install adaptor on lower handle with cap screw and lock nut (Fig. 21).

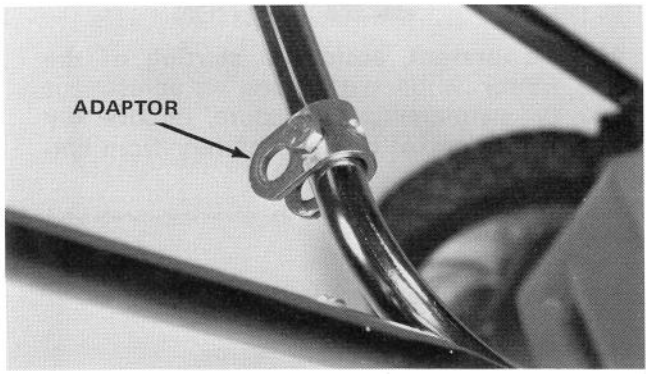

Figure 21

2. Remove grass deflector from mower housing.

3. Install discharge chute on mounting screw with wing nut (Fig. 22).

4. Install open end of bag around discharge chute and secure bag in place by pulling cord tight; then slide cord and metal clip together (Fig. 22).

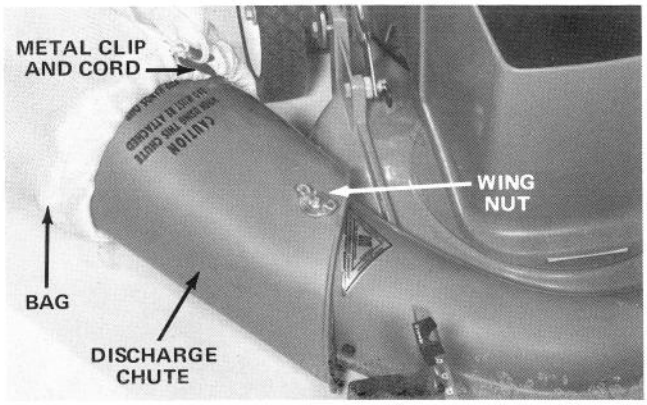

Figure 22

5. Slide L-shaped end of bag rod through hole in the adaptor. Hang bag loop onto end of bag rod.

6. To empty the bag, release safety squeeze grip and wait for motor to stop. Separate metal clip and bag cord, and remove bag from discharge chute and rod.

CAUTION

Do not operate mower unless grass deflector or optional bag chute and bag is installed on mower housing because these parts are safety devices, in addition to being mechanically functional.

MAINTENANCE

CAUTION

To prevent accidental starting of the motor while performing an adjustment or maintenance procedure, remove key from control box and battery from battery box.

REMOVING/INSTALLING BATTERY

Tools Required: None

1. Remove key from control box.

2. Open the motor shroud.

3. Loosen wing nut and remove black battery cable from negative (–) battery terminal (Fig. 23).

4. Loosen wing nut and remove red battery cable from positive (+) battery terminal (Fig. 23).

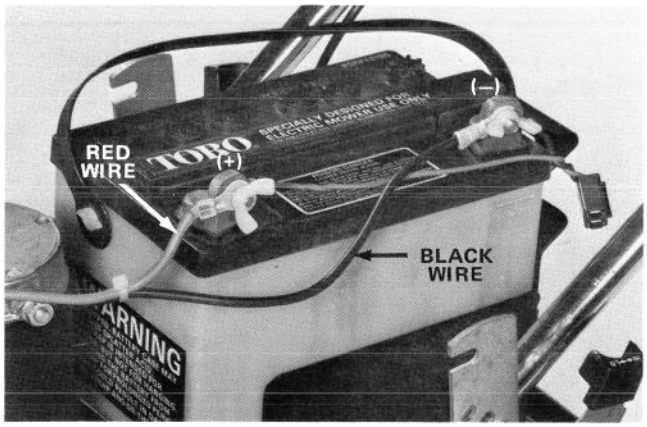

Figure 23

5. Grasp carrying strap and lift battery out of battery box (Fig. 24).

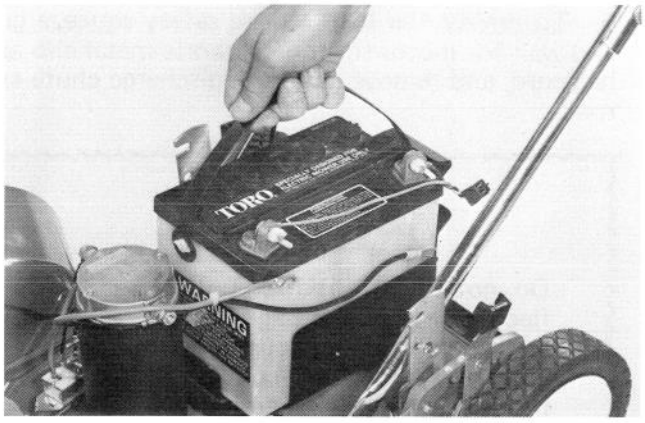

Figure 24

6. To reinstall battery, set it into battery box, making sure battery terminals are toward left side of mower.

7. Slide red cable onto positive (+) battery terminal bolt and tighten wing nut securely (Fig. 23). Also slide black cable onto negative (–) battery terminal bolt and tighten wing nut securely (Fig. 23). Do not overtighten the wing nuts.

8. Close motor shroud.

MAINTAINING/CHARGING BATTERY

Tools Required: TORO Carefree Electric Charger

A new battery must be charged for 72 consecutive hours to assure full charge. During seasonal use, charge battery for 48 hours immediately after using the mower. After battery charges for 48 hours, disconnect the charger. Before battery is stored for the off season, charge it for 48 hours. No other special care is required when storing the battery, even at sub-zero temperatures, because a fully charged battery will not freeze.

To optimize battery life, the following procedures are recommended. Always maintain level of electrolyte with drinkable water at "MAX" mark indicated on side of battery case (Fig. 25). Clean the battery case periodically with a clean rag to remove any grass and dirt.

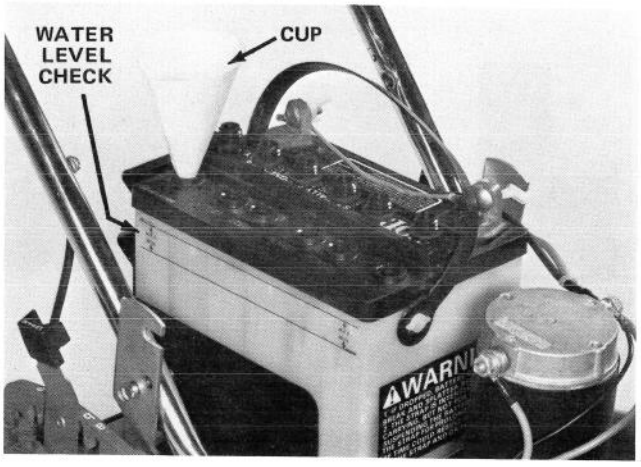

Figure 25

IMPORTANT: Use only the TORO Carefree Charger supplied with the mower because it is specially designed for the battery. Remember to use the charger indoors (garage), not outdoors where it can be affected adversely by the weather.

The battery charger can be mounted (w/a screw) to the wall near a convenient electrical outlet. This makes the charger easier to use, and it will not be damaged because of accidental dropping.

1. Remove key from control box and open motor shroud.

Note: The suggested way to charge the battery is when it is installed on the mower and the procedures that follow reflect this method of charging. However, the battery can also be removed from the mower and charged, but it is not necessary.

2. Push charging harness connector into battery charger receptacle (Fig. 26).

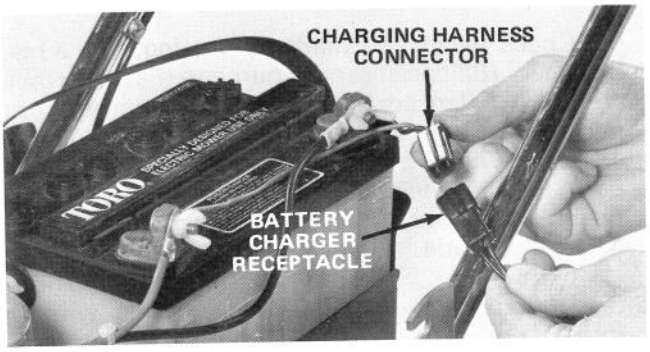

Figure 26

3. Insert charger plug into a standard power outlet. After battery charges for specified amount of time, pull charger plug out of power outlet; then disconnect charger from battery.

CAUTION

Charge battery in a well-ventilated area because gases are produced while battery is being charged. Do not inhale the gases because nausea may result. Also, the gases are explosive. Therefore, do not charge battery near open flame or electrical spark, and do not smoke in the area of the battery when it is being charged. And most importantly, pull charger plug out of power outlet before connecting or disconnecting the charger from the battery. To prevent any possibility of damage, do not run motor when battery is being charged.

4. Check level of electrolyte. If level is below the "MIN" mark on side of battery, add drinkable water until level rises to "MAX" (Fig. 25).

5. Close motor shroud after battery is serviced.

LUBRICATING WHEEL BUSHINGS

Tools Required: Clean Rag and Motor Oil

1. After every 25 hours of operation, apply 2 or 3 drops of oil on inside of all wheel bolts (Fig. 27).

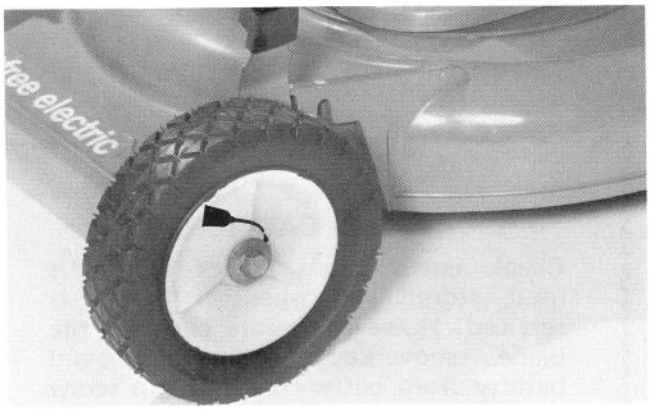

Figure 27

2. Spin wheel to distribute oil into bushings, and wipe up any excess oil.

CLEANING UNDERSIDE OF MOWER HOUSING

Tools Required: Wooden Scraper

1. Remove key from switch and battery from battery box: refer to Removing/Installing Battery, steps 1-5, page 12.

2. Tip mower on its left side (Fig. 28).

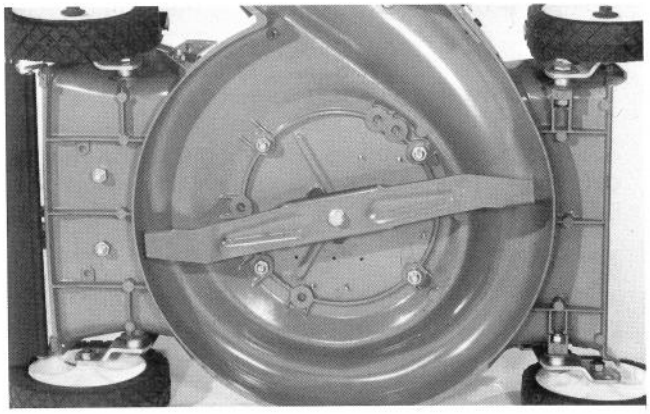

Figure 28

3. Removing grass clippings and dirt from underside of housing by spraying it with a garden hose. Scrape out any grass that water does not remove.

IMPORTANT: Do not spray water directly onto the motor or switch because damage may result.

4. After mower housing is cleaned, set mower upright.

5. Set battery into battery box and connect battery cables: refer to Removing/Installing Battery, steps 6-8, page 12. However, do not install key into control box if mower will not be used, thereby preventing possibility of accidental starting.

MAINTENANCE

SERVICING CUTTER BLADE

Tools Required: 9/16-Inch Socket or Wrench and Rag

CAUTION

Check cutter blade before mower is used, stored and whenever mower is serviced. However, before checking the blade, remove key from control box and battery from battery box. If cap screw holding blade is loose, tighten it to 30 ft-lb. If blade or sail at end of blade (Fig. 30) is worn, eroded or cracked, replace the blade. Also, if blade is bent or out-of-balance, and cap screw or lock washer is damaged, replace the defective part(s) before operating.

Always use genuine TORO replacement blades and parts to assure safety and optimum performance. NEVER USE "WILL-FIT" REPLACEMENT BLADES OR PARTS MADE BY OTHER MANUFACTURERS.

1. Remove key from control box and battery from battery box: refer to Removing/Installing Battery, steps 1-5, page 12.

2. Tip mower on its left side.

3. Grasp end of blade using a rag or thickly padded glove; then remove cap screw, lock washer and blade (Fig. 29).

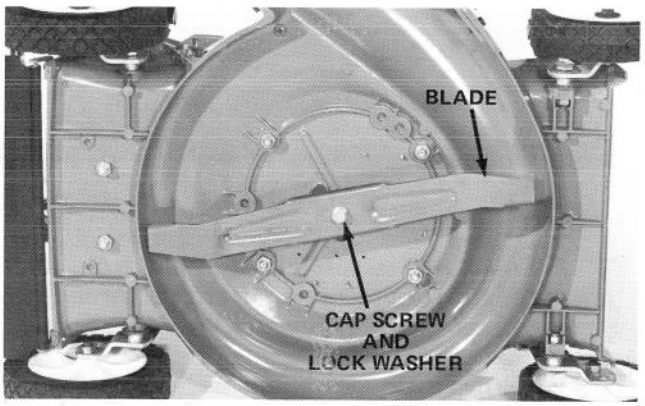

Figure 29

4. Using a file, sharpen cutting edge of both ends of blade (Fig. 30).

IMPORTANT: Sharpen top side of blade and maintain original cutting angle to assure a sharp cutting edge. Blade will remain balanced if same amount of material is removed from both cutting edges.

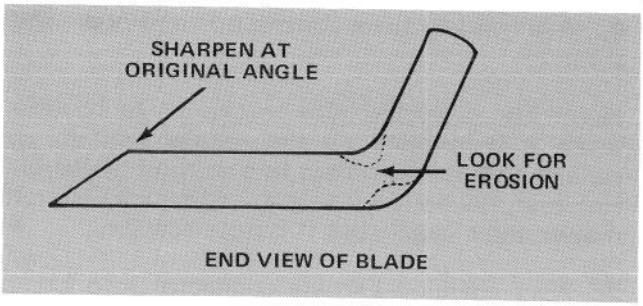

Figure 30

5. Check balance of blade by putting it on a blade balancer. (Balancer can be purchased at a hardware store.) A balanced blade will stay in a horizontal position on the balancer. By contrast, an unbalanced blade will settle to the heavy side. If blade is not balanced, file some material off heavy "end" of the blade, not off the cutting edge. Recheck balance of blade.

6. In sequence, install balanced blade with cap screw and lock washer. Tighten cap screw to 30 ft-lb. Set mower upright and install battery.

PREPARING MOWER FOR STORAGE

1. Remove battery from mower: refer to Removing/Installing Battery, steps 1-5, page 12.

2. Clean exterior of mower and motor, but do not get water onto the motor or switch if water is used for cleaning because damage may result.

3. Clean underside of mower housing: refer to Cleaning Underside of Mower Housing, page 13.

4. Check condition of blade and blade cap screw: refer to Servicing Cutter Blade, page 14.

5. Check and tighten all loose cap screws, bolts, nuts and mating parts. If any part is damaged, repair or replace it.

6. Lubricate the wheel bushings: refer to Lubricating Wheel Bushings, page 13.

7. "Touch up" all rusted or chipped paint surfaces. Make sure to sand affected area before painting.

Note: TORO Re-Kote "touch-up" paint is available from an Authorized TORO Service Dealer. The spray paint dries in minutes to a glossy factory-finish.

8. Set battery into battery box: refer to Removing/Installing Battery, steps 6-8, page 12.

9. Charge the battery for 48 hours: refer to Maintaining/Charging Battery, page 12.

MAINTENANCE

10. Store the mower (including the battery) in a garage or storage shed. For convenience and to minimize space, handle can be moved to an upright storage position which is obtained by engaging handle studs with cut-out in handle latches (Fig. 5). Cover the mower to protect it and keep it clean.

CAUTION

Store the battery on the mower or in a safe place where it cannot drop or fall. Do not store battery by hanging it from the plastic carrying strap. The recommended place to store the battery is on the mower.

TROUBLE SHOOTING

Problem	Possible Cause	Corrective Action
Motor does not start.	1. Key not held in ON position or safety squeeze grip not against handle.	1. Hold safety squeeze grip against handle and move key to ON position.
	2. Battery is discharged.	2. Charge battery for 48 hours.
	3. Wire(s) disconnected.	3. Inspect wiring harness and connect any loose wires.
Motor stops during operation.	1. Too much grass is being cut, thereby overloading the motor, and causing circuit breaker to open.	1. Wait one minute and restart the motor. Reduce load or motor will overload again.
	2. Battery is discharged.	2. Charge the battery for 48 hours.
Mower vibrates abnormally.	1. Cutter blade cap screw is loose.	1. Tighten cap screw to 30 ft-lb.
	2. Cutter blade is unbalanced.	2. Service the cutter blade. If vibration still persists, have mower checked by Authorized TORO Service Dealer.
Grass discharges poorly.	1. Underside of mower housing is dirty.	1. Clean underside of housing.
	2. Blade is dull.	2. Sharpen cutter blade.
	3. Blade is worn or damaged.	3. Install new blade.
	4. Battery charge is low.	4. Charge the battery for 48 hours.

IDENTIFICATION AND ORDERING

The CAREFREE ELECTRIC has two identification numbers: a model number and a serial number. The two numbers are stamped on a decal that is located on mower housing, between the rear wheels (Fig. 31). In any correspondence concerning the mower, supply model and serial numbers to assure that correct information and parts are obtained.

To order replacement parts from an Authorized TORO Service Dealer, supply the following:

1. Model and serial numbers of the mower.

2. Part number, description and quantity of part(s) desired.

Note: Do not order by reference number if a parts catalog is being used; use the PART NUMBER.

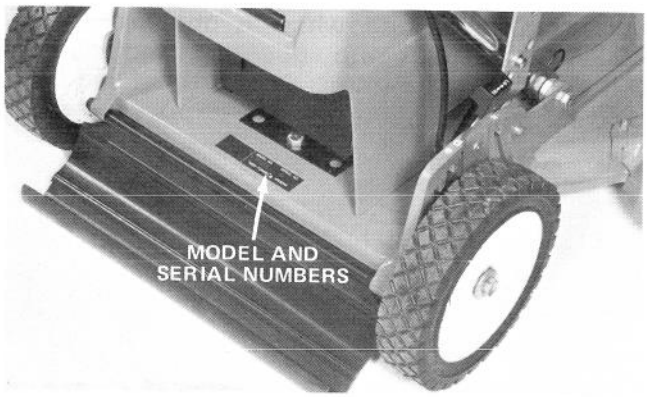

Figure 31

The Toro Promise

A One Year Limited Warranty

The Toro Company promises to repair any TORO Product if defective in materials or workmanship. The following time periods from the date of purchase apply:

Residential Product	1 Year
Residential Products Used Commercially . . .	45 Days

The costs of parts and labor are included, but the customer pays the transportation costs. Just return any residential product to an Authorized TORO Service Dealer or TORO Distributor.

Should you feel your TORO is defective and wish to rely on The Toro Promise, the following procedure is recommended:

1. Contact any Authorized TORO Service Dealer, TORO Master Service Dealer, or TORO Distributor (the Yellow Pages of your telephone directory is a good reference source).
2. He will either instruct you to return the product to him or recommend another Authorized TORO Service outlet which might be more convenient.
3. Bring the product along with your original sales slip, or other evidence of purchase date, to the service dealer.
4. The servicing dealer will inspect the unit, advise you whether the product is defective and, if so, make all repairs necessary to correct the defect without extra charge to you.

If for any reason you are dissatisfied with the dealer's analysis of the defect or the service performed, you may contact us.

Write:

TORO Customer Service Department
8111 Lyndale Avenue South
Minneapolis, Minnesota 55420

The above remedy of product defects through repair by an Authorized TORO Service Dealer is the purchaser's sole remedy for any defect.

THERE IS NO OTHER EXPRESS WARRANTY. ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR USE ARE LIMITED TO THE DURATION OF THE EXPRESS WARRANTY.

Some states do not allow limitation on how long implied warranty lasts, so the above limitation may not apply to you.

This warranty applies only to parts or components which are defective and does not cover repairs necessary due to normal wear, misuse, accidents, or lack of proper maintenance. Regular, routine maintenance of the unit to keep it in proper operating condition is the responsibility of the owner.

All warranty repairs reimbursable under The Toro Promise must be performed by an Authorized TORO Service Dealer using Toro approvaed replacement parts.

Repairs or attempted repairs by anyone other than an Authorized TORO Service Account are not reimbursable under The Toro Promise. In addition, these unauthorized repair attempts may result in additional malfunctions, the correction of which is not covered by warranty.

The Toro Company is not liable for indirect, incidental or consequential damages in connection with the use of the product including any cost or expense of providing substitute equipment or service during periods of malfunction or non-use.

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

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

Litho in U.S.A.