Form No. 3473-340 Rev C

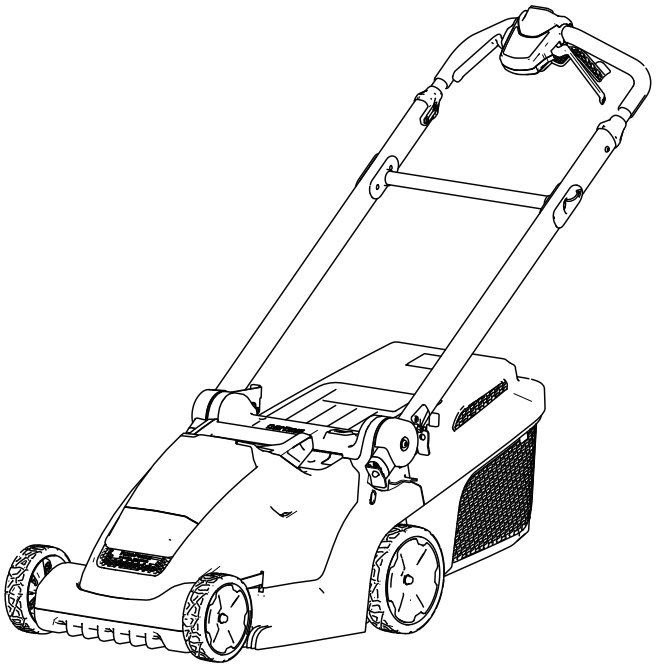
TORO®

Count on it.

Operator's Manual

Flex-Force Power System™ 60V MAX 36cm Lawn Mower

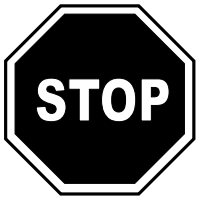
Model No. 21836—Serial No. 326000000 and Up
Model No. 21836T—Serial No. 326000000 and Up
Model No. 21843—Serial No. 326000000 and Up
Model No. 21843T—Serial No. 326000000 and Up
Model No. 21844—Serial No. 326000000 and Up
Model No. 21844T—Serial No. 326000000 and Up



Register at www.Toro.com.
Original Instructions (EN)

CE UK CA

3473-340



For assistance, please see www.Toro.com/support for instructional resources or contact your Authorized Service Dealer before returning this product.

Do not tamper with or disable safety devices on the machine, and check their proper operation regularly. Do not attempt to adjust or tamper with the motor speed control; doing so may create an unsafe operating condition, resulting in personal injury.

This product complies with all relevant European directives; for details, please see the separate product specific Declaration of Conformity (DOC) sheet.

Introduction

This rotary-blade, walk-behind lawn mower is intended to be used by residential homeowners. It is designed primarily for cutting grass on well-maintained lawns on residential properties. It is not designed for cutting brush or for agricultural uses. It is designed to use Flex-Force Power System® 60V lithium-ion battery packs. These battery packs are designed to be charged only by Flex-Force™ 60V lithium-ion battery chargers.

Using these products for purposes other than their intended use could prove dangerous to you and bystanders.

Models 21836T, 21843T, and 21844T do not include a battery or a charger.

Read this information carefully to learn how to operate and maintain your product properly and to avoid injury and product damage. You are responsible for operating the product properly and safely.

Visit www.Toro.com for more information, including safety tips, training materials, accessory information, help finding a dealer, or to register your product.

Whenever you need service, genuine the manufacturer parts, or additional information, contact an Authorized Service Dealer or the manufacturer Customer Service and have the model and serial numbers of your product ready. Figure 1 identifies the location of the model and serial numbers on the product. Write the numbers in the space provided.

Important: **With your mobile device, you can scan the QR code on the serial number decal (if equipped) to access warranty, parts, and other product information.**

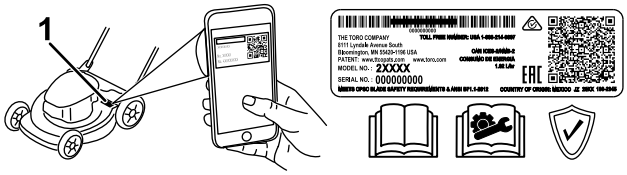


Figure 1

1. Model and serial number location

Model No. _____

Serial No. _____

Safety-Alert Symbol

The safety-alert symbol (Figure 2) shown in this manual and on the machine identifies important safety messages that you must follow to prevent accidents.



g000502

Figure 2

Safety-alert symbol

The safety-alert symbol appears above information that alerts you to unsafe actions or situations and is followed by the word **DANGER**, **WARNING**, or **CAUTION**.

DANGER indicates an imminently hazardous situation which, if not avoided, **will** result in death or serious injury.

WARNING indicates a potentially hazardous situation which, if not avoided, **could** result in death or serious injury.

CAUTION indicates a potentially hazardous situation which, if not avoided, **may** result in minor or moderate injury.

This manual uses two other words to highlight information. **Important** calls attention to special

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mechanical information and **Note** emphasizes general information worthy of special attention.

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Safety

General Machine Safety Warnings

⚠ WARNING

Read all safety warnings, instructions, illustrations and specifications provided with this power tool. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

The term “power tool” in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) tool.

1. **Work area safety**
   - A. **Keep work area clean and well lit.** Cluttered or dark areas invite accidents.
   - B. **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gasses or dust.** Power tools create sparks which may ignite the dust or fumes.
   - C. **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.
2. **Electrical safety**
   - A. **Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.** Unmodified plugs and matching outlets will reduce risk of electric shock.
   - B. **Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is earthed or grounded.
   - C. **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
   - D. **Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts.** Damaged or entangled cords increase the risk of electric shock.
   - E. **When operating a power tool outdoors, use an extension cord suitable for**

outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.

F. **If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.** Use of an RCD reduces the risk of electric shock.

3. **Personal safety**

A. **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.** A moment of inattention while operating power tools may result in serious personal injury.

B. **Use personal protective equipment. Always wear eye protection.** Protective equipment such as a dust mask, non-skid safety shoes, hard hat or, or hearing protection used for appropriate conditions will reduce personal injuries.

C. **Prevent unintentional starting. Ensure the switch is in the OFF position before connecting to power source and/or battery pack, picking up or carrying the tool.** Carrying power tools with your finger on the switch or energizing power tools that have the switch on invites accidents.

D. **Remove any adjusting key or wrench before turning the power tool on.** A wrench or a key left attached to a rotating part of the power tool may result in personal injury.

E. **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.

F. **Dress properly. Do not wear loose clothing or jewelry. Keep your hair and clothing away from moving parts.** Loose clothes, jewelry or long hair can be caught in moving parts.

G. **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** Use of dust collection can reduce dust-related hazards.

H. **Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles.** A careless action can cause severe injury within a fraction of a second.

4. **Power tool use and care**

A. **Do not force the power tool. Use the correct power tool for your application.** The correct power tool will do the job better and safer at the rate for which it was designed.

B. **Do not use the power tool if the switch does not turn it on and off.** Any power tool that cannot be controlled with the switch is dangerous and must be repaired.

C. **Disconnect the plug from the power source and/or remove the battery pack, if detachable, from the power tool before making any adjustments, changing accessories, or storing power tools.** Such preventative safety measures reduce the risk of starting the power tool accidentally.

D. **Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** Power tools are dangerous in the hands of untrained users.

E. **Maintain power tools and accessories. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use.** Many accidents are caused by poorly maintained power tools.

F. **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.

G. **Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed.** Use of the power tool for operations different from those intended could result in a hazardous situation.

H. **Keep handles and grasping surfaces dry, clean and free from oil and grease.** Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.

5. **Battery tool use and care**

   A. **Recharge only with the charger specified by the manufacturer.** A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.

   B. **Use power tools only with specifically designated battery packs.** Use of any other battery packs may create a risk of injury and fire.

   C. **When battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects, that can make a connection from one terminal to another.** Shorting the battery terminals together may cause burns or a fire.

   D. **Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help.** Liquid ejected from the battery may cause irritation or burns.

   E. **Do not use a battery pack or tool that is damaged or modified.** Damaged or modified batteries may exhibit unpredictable behavior resulting in fire, explosion or risk of injury.

   F. **Do not expose a battery pack or tool to fire or excessive temperature.** Exposure to fire temperature above 130°C (265°F) may cause an explosion.

   G. **Follow all charging instructions and do not charge the battery pack or tool outside the temperature range specified in the instructions.** Charging improperly or at temperatures outside the specified range may damage the battery and increase the risk of fire.

6. **Service**

   A. **Have your power tool serviced by a qualified repair person using only identical replacement parts.** This will ensure that the safety of the power tool is maintained.

   B. **Never service damaged battery packs.** Service of battery packs should only be performed by the manufacturer or authorized service providers.

Lawn Mower Safety Warnings

- **Do not operate the lawn mower in rain or wet conditions.** This may increase the risk of electric shock.
- **Do not use the lawn mower in bad weather conditions, especially when there is a risk of lightning.** This decreases the risk of being struck by lightning.
- **Thoroughly inspect the area for wildlife where the lawn mower is to be used.** Wildlife may be injured by the lawn mower during operation.
- **Thoroughly inspect the area where the lawn mower is to be used and remove all stones, sticks, wires, bones, and other foreign objects.** Thrown objects can cause personal injury.
- **Before using the lawn mower, always visually inspect to see that the blade and the blade assembly are not worn or damaged.** Worn or damaged parts increase the risk of injury.
- **Check the grass catcher frequently for wear or deterioration.** A worn or damaged grass collector may increase the risk of personal injury.
- **Keep guards in place. Guards must be in working order and be properly mounted.** A guard that is loose, damaged, or is not functioning correctly may result in personal injury.
- **Keep all cooling air inlets clear of debris.** Blocked air inlets and debris may result in overheating or risk of fire.
- **While operating the lawn mower, always wear non-slip and protective footwear. Do not operate the lawn mower when barefoot or wearing open sandals.** This reduces the chance of injury to the feet from contact with the moving blade.
- **While operating the lawn mower, always wear long trousers.** Exposed skin increases the likelihood of injury from thrown objects.
- **Do not operate the lawn mower in wet grass. Walk, never run.** This reduces the risk of slipping and falling which may result in personal injury.
- **Do not operate the lawn mower on excessively steep slopes.** This reduces the risk of loss of control, slipping and falling which may result in personal injury.
- **When working on slopes, always be sure of your footing, always work across the face of slopes, never up or down and exercise extreme caution when changing direction.** This reduces the risk of loss of control, slipping and falling which may result in personal injury.
- **Use extreme caution when reversing or pulling the lawn mower towards you. Always be aware**

of your surroundings. This reduces the risk of tripping during operation.

- **Do not touch blades and other hazardous moving parts while they are still in motion.** This reduces the risk of injury from moving parts.
- **When clearing jammed material or cleaning the lawn mower, make sure all power switches are off and the battery pack is disconnected.** Unexpected operation of the lawn mower may result in serious personal injury.

Additional Safety Warnings

1. **Training**
   - The operator of the machine is responsible for any accidents or hazards occurring to others or their property.
   - Do not allow children to use or play with the machine, battery pack, or the battery charger; local regulations may restrict the age of the operator.
   - Do not allow people with reduced physical, sensory, or mental capabilities or without experience and knowledge to use the machine, battery pack, or battery charger unless they receive instruction or supervision on using it safely and understand the hazards involved while using it.
   - Before using the battery pack and battery charger, read all the instructions and cautionary markings on these products.
2. **Preparation**
   - Replace any damaged or unreadable labels.
   - Use only the battery pack specified by Toro. Using other accessories and attachments may increase the risk of injury and fire.
   - Plugging the battery charger into an outlet that is not of the proper voltage can cause a fire or electric shock. For a different style of connection, use an attachment plug adapter of the proper configuration for the power outlet if needed.
   - Do not use a damaged or modified battery pack or battery charger, which may exhibit unpredictable behavior that results in fire, explosion, or risk of injury.
   - If the supply cord to the battery charger is damaged, contact an Authorized Service Dealer to replace it.
   - Do not use non-rechargeable batteries.
   - Charge the battery pack with only the battery charger specified by Toro. A charger suitable for one type of battery pack may create a risk of fire when used with another battery pack.
   - Charge the battery pack in a well-ventilated area only.
   - Do not expose a battery pack or battery charger to fire or to temperatures higher than 68°C (154°F).
   - Follow all charging instructions and do not charge the battery pack outside of the temperature range specified in the instructions. Otherwise, you may damage the battery pack and increase the risk of fire.
3. **Operation**
   - Keep clear of any discharge opening.
   - Disengage the self-propel drive (if equipped) before starting the machine.
   - Prevent unintentional starting—Ensure that the electric-start button is removed from the ignition before connecting the battery pack and handling the machine.
   - Stop the machine, remove the electric-start button, remove the battery pack from the machine, and wait for all movement to stop before servicing or cleaning the machine.
   - Remove the battery pack and electric-start button from the machine whenever you leave it unattended or before changing accessories.
   - Do not direct the discharge material toward anyone. Avoid discharging material against a wall or obstruction; material may ricochet toward you. Stop the blade(s) when crossing gravel surfaces.
   - Watch for holes, ruts, bumps, rocks, or other hidden objects. Uneven terrain could cause you to lose your balance or footing.
   - If the machine strikes an object or starts to vibrate, immediately shut off the machine, remove the electric-start button, remove the battery pack, and wait for all movement to stop before examining the machine for damage. Make all necessary repairs before resuming operation.
   - Stop the machine and remove the electric-start button before loading the machine for hauling.
   - Under abusive conditions, the battery pack may eject liquid; avoid contact. If you accidently come into contact with the liquid, flush with water. If the liquid contacts your eyes, seek medical help. Liquid ejected from the battery pack may cause irritation or burns.

4. **Maintenance and Storage**
   - Stop the machine, remove the electric-start button, remove the battery pack from the machine, and wait for all movement to stop before servicing or cleaning the machine.
   - Do not attempt to repair the machine except as indicated in the instructions. Have an Authorized Service Dealer perform service on the machine using identical replacement parts.
   - Sharpen a dull blade on both sides to maintain balance. Clean the blade and ensure that it is balanced.
   - When servicing the blade, be aware that the blade can still move even though the power source is off.
   - For best performance, use only genuine Toro replacement parts and accessories. Other replacement parts and accessories could be dangerous, and such use could void the product warranty.
   - Maintain the machine—Keep cutting edges sharp and clean for the best and safest performance. Keep handles dry, clean, and free from oil and grease. Keep guards in place and in working order. Keep blades sharp. Use identical replacement blades only.
   - Unless indicated in the instructions, have an Authorized Service Dealer repair or replace a damaged guard or part.
   - When the battery pack is not in use, keep it away from metal objects such as paper clips, coins, keys, nails, and screws that can make a connection from one terminal to another. Shorting the battery terminals may cause burns or a fire.
   - Check the blade and motor mounting bolts frequently for tightness.
   - **CAUTION**—A mistreated battery pack may present a risk of fire or chemical burn. Do not disassemble the battery pack. Do not heat the battery pack above 68°C (154°F) or incinerate it. Replace the battery pack with a genuine Toro battery pack only; using another type of battery pack may cause a fire or explosion. Keep battery packs out of the reach of children and in the original packaging until you are ready to use them.
   - Do not dispose of the battery in a fire. The cell may explode. Check with local codes for possible special disposal instructions.

Safety and Instructional Decals

Safety decals and instructions are easily visible to the operator and are located near any area of potential danger. Replace any decal that is damaged or missing.

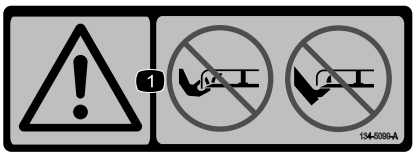
Battery or Charger Symbol	Explanation
	Read the *Operator's Manual*.
	Contact your local municipality or your authorized Authorized Service Dealer or distributor for more information on how to responsibly recycle the battery.



decal134-6016

134-6016

1. Engine speed—slow
2. Engine speed—fast



decal134-5099

134-5099

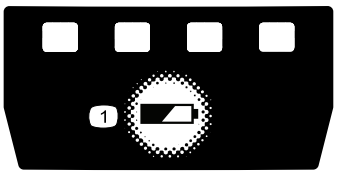
1. Warning—keep hands and feet away from the mower blade.



decal134-5297

134-5297

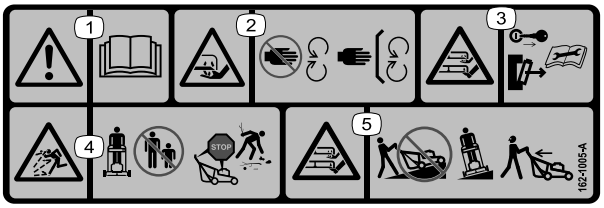
1. Max Power Mode



decal161-3764

161-3764

1. Battery charge status



decal162-1005

162-1005

1. Warning—read the *Operator's Manual*.
2. Cutting/dismemberment hazard of hand, mower blade—stay away from moving parts; keep all guards and shields in place.
3. Cutting/dismemberment hazard of hand or foot, mower blade—remove the key, remove the battery pack, and read the *Operator's Manual* before performing maintenance.
4. Thrown object hazard—keep bystanders away; shut off the engine before leaving the operating position; pick up any debris before mowing.
5. Cutting/dismemberment hazard of hand or foot, mower blade—do not operate up and down slopes; operate side to side on slopes; look behind you when moving in reverse.

Setup

Important: **The battery pack is not fully charged when it is purchased. Before using the machine for the first time, refer to Charging the Battery Pack (page 19).**

Note: The safety key and all other loose parts have been placed in the battery compartment for safe delivery; ensure that you remove them from the compartment and store them in a safe place prior to assembly.

1

Mounting the Battery Charger (Optional)

Parts needed for this procedure:

2	Mounting hardware (not included)

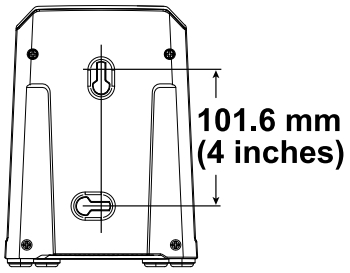
Procedure

If desired, mount the battery charger securely on a wall using the wall-mount key holes on the back of the charger.

Mount it indoors (such as a garage or other dry place), near a power outlet, and out of the reach of children.

Refer to Figure 3 for assistance in mounting the charger.

Slide the charger over the appropriately positioned hardware to secure the charger in place (hardware not included).



g290534

Figure 3

2

Assembling the Handle

Parts needed for this procedure:

1	Upper handle assembly
2	Bolt
2	Locknut

Procedure

Important: **Remove and discard the protective plastic sheet that covers the mower and any other plastic or wrapping on the machine.**

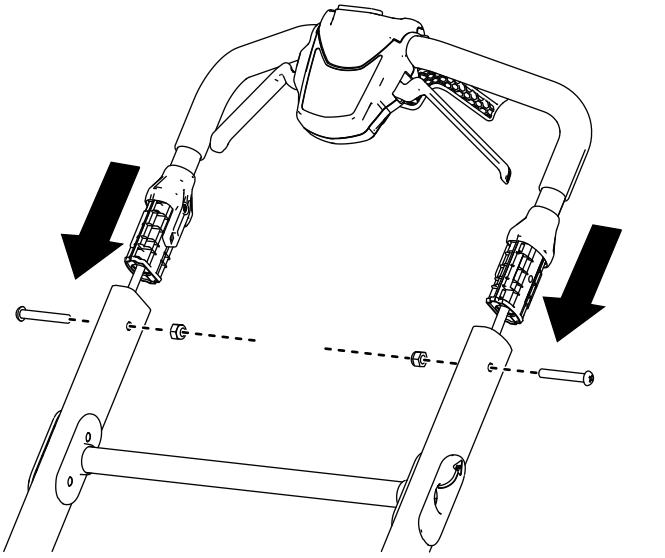
Note: Remove the rubber end-cap from the handle assembly prior to inserting the upper handle bar into the lower handle bar. These are added during manufacturing to prevent damage to the cables.

⚠ WARNING

Folding or unfolding the handle improperly can damage the cables, causing an unsafe operating condition.

- **Do not damage the cables when folding or unfolding the handle.**
- **If a cable is damaged, contact an Authorized Service Dealer.**

1. Install the upper handle assembly to the lower handle and secure it using 2 bolts and 2 locknuts as shown in Figure 4.

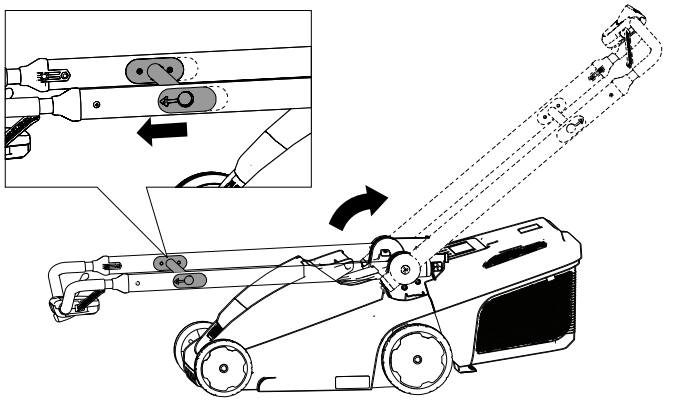


g342173

Figure 4

2. Pull the handlebar release brace toward the upper handle to release the handle lock (Figure 5).
3. Move the handle rearward to the operating position and let go of the handlebar release brace (Figure 5).

   Note: Ensure that the handle clicks into place.



g341335

Figure 5

Product Overview

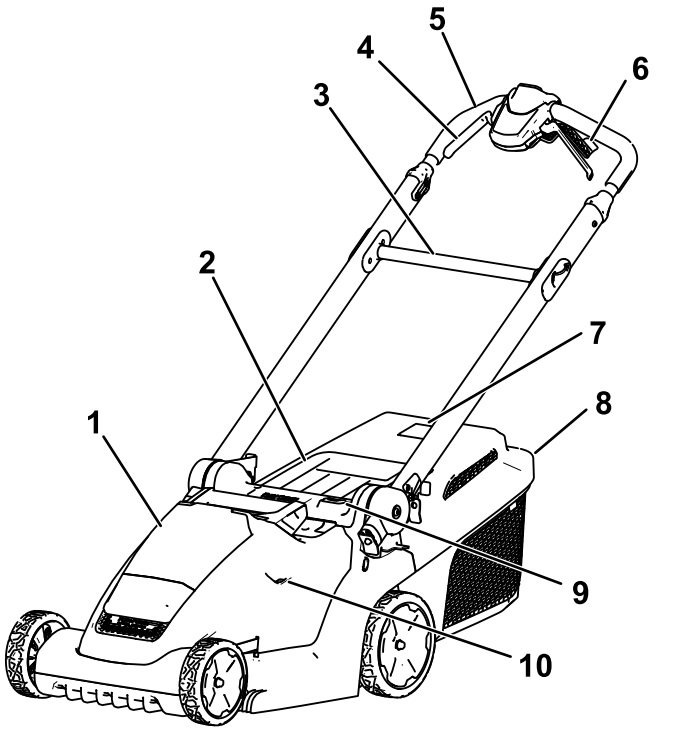


Figure 6

1. Battery compartment
2. Rear deflector
3. Handlebar release brace
4. Blade-control handles
5. Handlebar
6. Self-propel drive handles (Model 21844 only)
7. Grass box full indicator
8. Grass box
9. Height-of-cut button
10. Height-of-cut indicator window

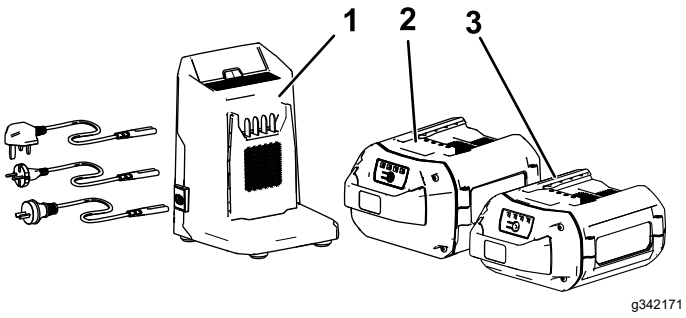


Figure 7

1. Battery charger Model 86902PPK (included with Models 21836, 21843, and 21844)
2. Battery pack Model 88941PPK (included with Models 21843 and 21844)
3. Battery pack Model 88925PPK (included with Model 21836)

Specifications

Model	Weight (without a battery)	Length	Width	Height
21836/T	20.2 kg (44.5 lb)	130.6 cm (51.4 inches)	41.7 cm (16.4 inches)	107.3 cm (42.2 inches)
21843/T	22.1 kg (48.7 lb)	136.2 cm (53.6 inches)	48.5 cm (19.1 inches)	108.5 cm (42.7 inches)
21844/T	24.0 kg (52.9 lb)	136.2 cm (53.6 inches)	48.5 cm (19.1 inches)	108.5 cm (42.7 inches)

SmartStow Dimensions

Model	Length	Width	Height
21836/T	41 .2 cm (16.2 inches)	41.7 cm (16.4 inches)	113. 5 cm (44.7 inches)
21843/T	41 .0 cm (16.1 inches)	48.5 cm (19.1 inches)	114. 0 cm (44.9 inches)
21844/T	41. 0 cm (16.1 inches)	48.5 cm (19.1 inches)	114. 0 cm (44.9 inches)

Battery Pack

Model	88925PPK	88941PPK
Battery pack capacity	2.5 Ah	5.0 Ah
	135 Wh	270 Wh
Battery manufacturer rating = 60V maximum and 54V nominal. Actual voltage varies with load.		

Battery Charger

Model	86902PPK
Type	60V MAX Lithium-Ion Battery Charger
Input	100 to 240V AC 50/60Hz Max 2.0A
Output	60V MAX DC 2.0A

Appropriate Temperature Ranges

Charge/store the battery pack at	5°C (41°F) to 40°C (104°F)*
Use the battery pack at	-30°C (-22°F) to 49°C (120°F)*
Use the machine at	0°C (32°F) to 49°C (120°F)*

*Charging time will increase if you do not charge the battery pack within this range.

Store the machine, battery pack, and battery charger in an enclosed clean, dry area.

Operation

Note: Determine the left and right sides of the machine from the normal operating position.

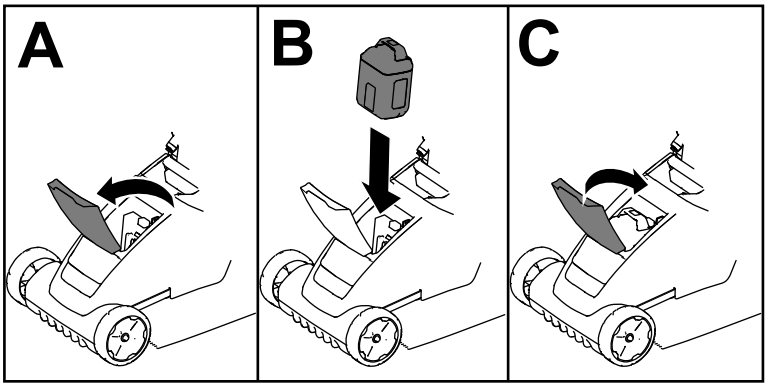
Before Operation

Installing the Battery Pack

Important: **Operate the battery pack only in temperatures that are within the appropriate range; refer to Specifications (page 11).**

1. Ensure that the safety key is not installed to the machine.
2. Ensure that the vents on the battery are clear of any dust and debris.
3. Lift up the battery-compartment lid (A of Figure 8).
4. Line up the cavity in the battery pack with the tongue on the machine and slide the battery pack into the compartment until it locks into place (B of Figure 8).
5. Close the battery-compartment lid (C of Figure 8).

   Note: If the battery-compartment lid does not close completely, the battery is not fully installed.



g341293

Figure 8

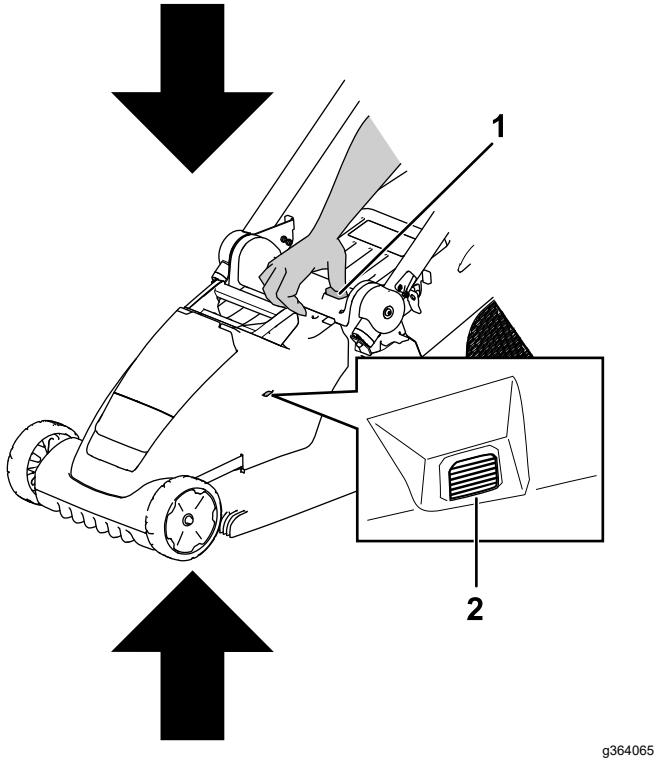
Adjusting the Cutting Height

⚠ WARNING

Adjusting the height-of-cut could bring your hands into contact with a moving blade and result in serious injury.

- **Shut off the motor, remove the battery, and wait for all moving parts to stop before adjusting the cutting height.**
- **Do not put your fingers under the housing when adjusting the cutting height.**

To adjust the cutting height, press down on the height-of-cut button and raise or lower the deck until the desired height-of-cut setting is shown in the height-of-cut window (Figure 9).



g364065

Figure 9

1. Height-of-cut button
2. Height-of-cut view window

The height of cut is adjustable in 6 increments between 19 mm (3/4 inch) and 70 mm (2-3/4 inches).

Indicator	Height of Cut Position
	1 (lowest)
	2
	3
	4
	5
	6 (highest)

During Operation

Starting the Machine

1. Ensure that the battery pack is charged and installed in the machine; refer to Installing the Battery Pack (page 12).
2. Install the safety key to the machine (Figure 10).

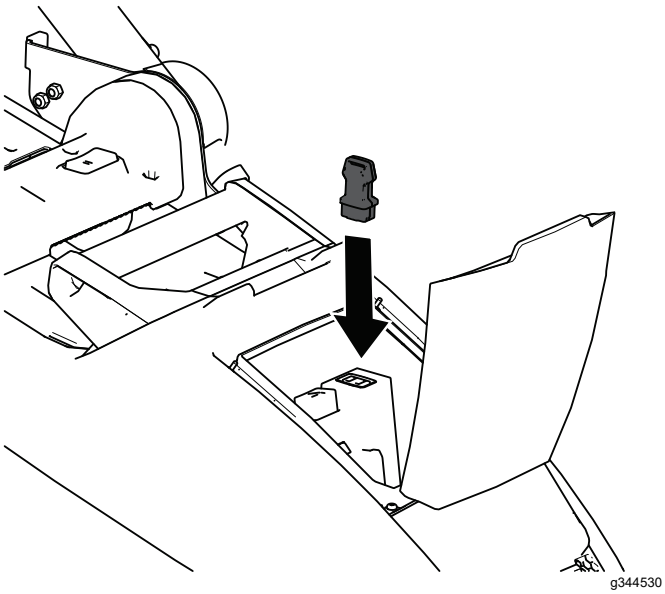


Figure 10

3. Press the Power button at the center of the upper handle to turn on the machine.
4. Squeeze the blade-control handles to start the machine.

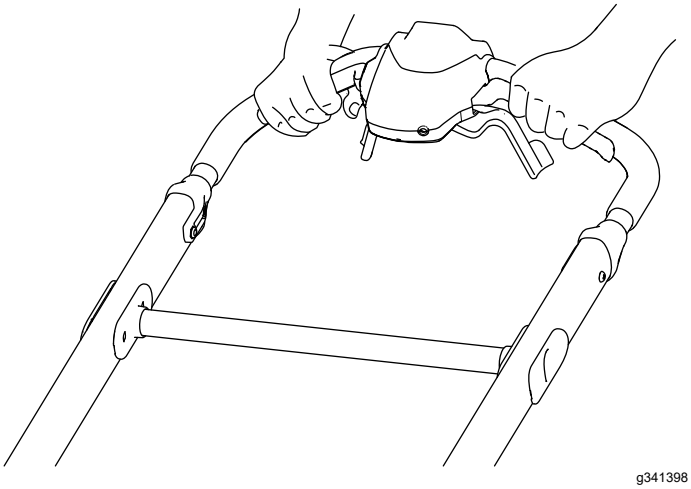


Figure 11

Using the Self-Propel Drive

Model 21844/T Only

- **To adjust the self-propel movement speed, adjust the speed control (Figure 12).**
- **To engage the self-propel drive, pull the self-propel drive handles up to the handle and hold them (Figure 12).**
- **To disengage the self-propel-drive, release the self-propel drive handles.**

Note: To reduce the ground speed, move the speed control to the left; to increase, move it to the right.

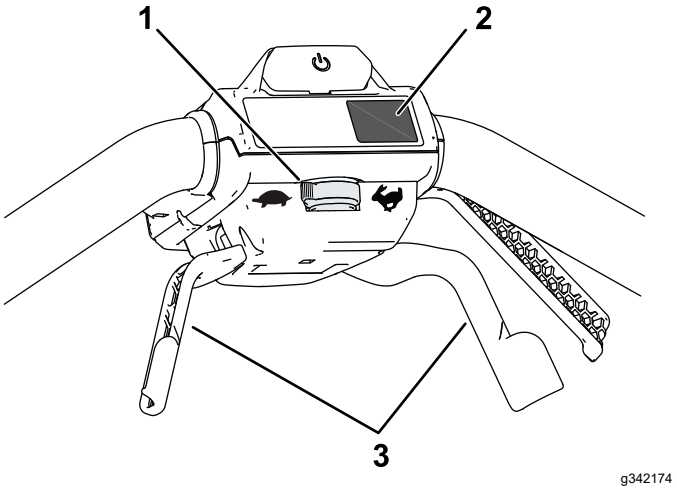


Figure 12

1. Self-propel speed control
2. MAX button
3. Self-propel drive handles

Adjusting the Blade Speed

This machine has 2 blade-speed settings: RUNSMART and MAX.

- When set to RUNSMART, the blade speed is adjusted automatically for greater efficiency; changes in cutting conditions are detected and the blade speed increases when necessary to maintain quality of cut.
- When set to the MAX, the blade speed remains at the highest speed at all times.

Press the MAX button below the On button to set the machine to MAX speed (Figure 12).

Recycling the Clippings

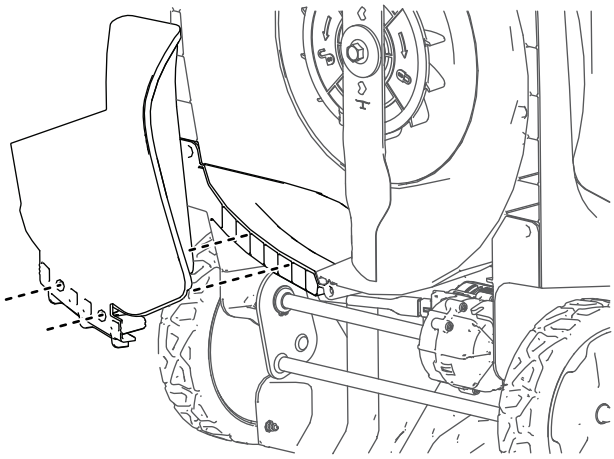
Your machine comes from the factory ready to recycle the grass and leaf clippings back into the lawn.

If the grass box is on the machine, remove it before recycling the clippings. Refer to Removing the Grass Box (page 17).

Installing the Mulch Plug

1. Shut off the machine and remove the battery pack and safety key; refer to Removing the Battery Pack from the Machine (page 18).
2. Place the machine in the vertical stow position; refer to Storing the Machine in the Vertical-Stow Position (page 21).
3. Clean the bottom of the deck to ensure the plug installs properly; refer to Cleaning under the Machine (page 20).
4. Align the mulch plug and push the bottom of the plug until it snaps into place onto the 2 retaining pins as shown in Figure 13.

   Important: **The bottom of the mulch plug should be flush with the bottom of the deck when properly installed; if the mulch plug does not install correctly, do not use it; contact your Authorized Service Dealer.**



g342177

Figure 13

Removing the Mulch Plug

To remove the mulch plug, remove the battery pack and then reverse the steps in Installing the Mulch Plug (page 15).

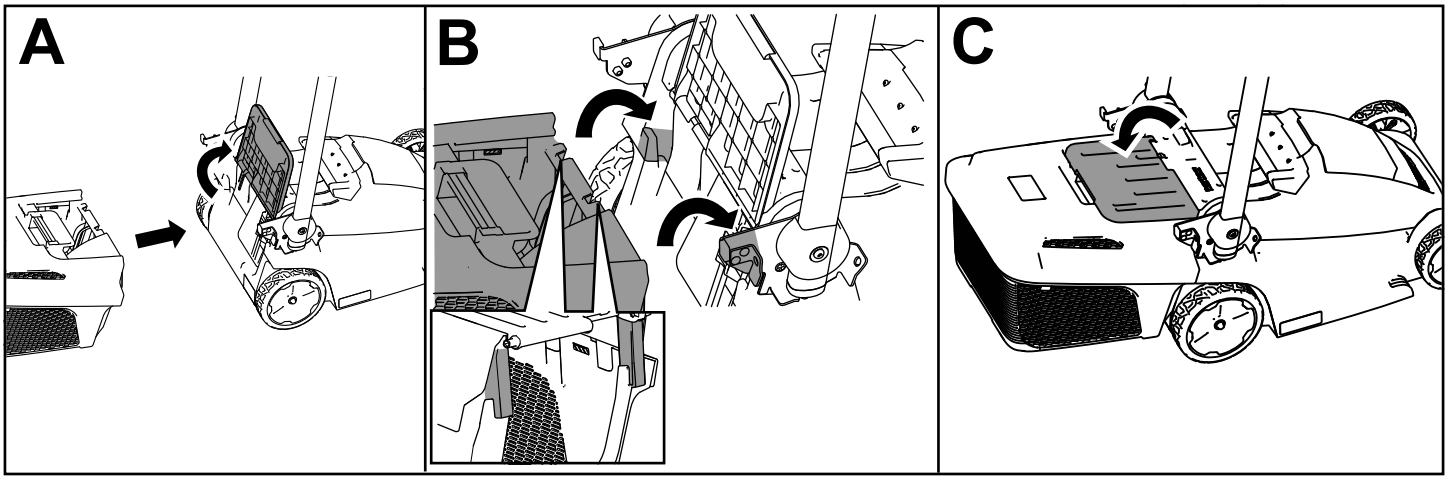
Bagging the Clippings

Use the grass box when you want to collect grass and leaf clippings from the lawn.

If the mulch plug is on the machine, remove it before bagging the clippings. Refer to Removing the Mulch Plug (page 15).

Installing the Grass Box

1. Move the handle into the upright position and lift up the rear deflector (A of Figure 14).
2. Install the hooks of the grass box into the notches on the rear of the machine (B of Figure 14).
3. Allow the rear deflector to rest on the box (C of Figure 14).
4. Return the handle back to the operating position; refer to Folding the Handle (page 20).

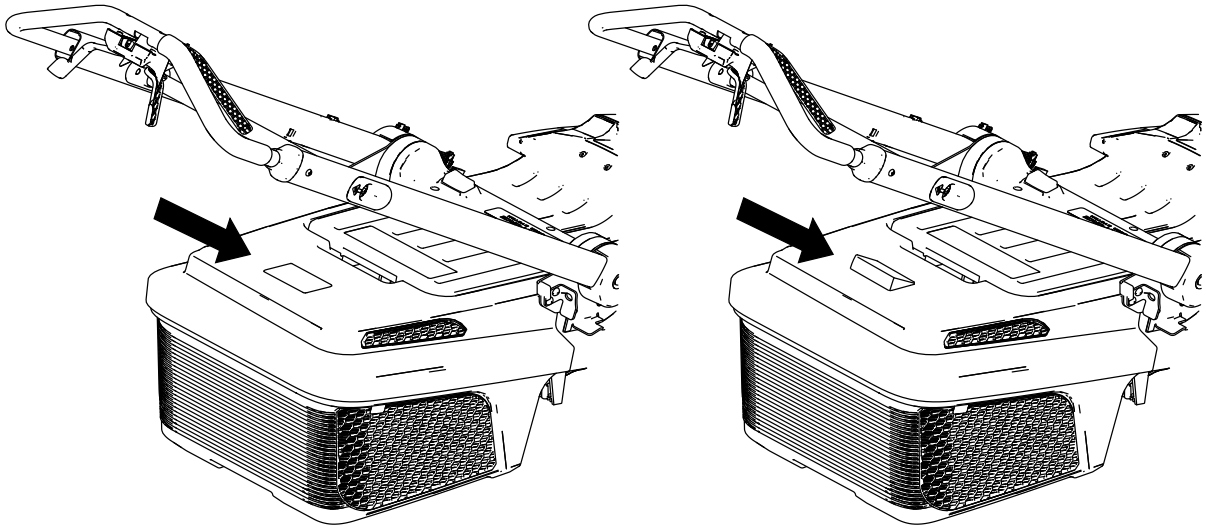


g341400

Figure 14

Grass Box Full Indicator

The grass box is fitted with a full indicator at the rear of the hard top. While grass is being collected, air flows through the grass box, raising the indicator flap into the open position. When the grass box is full, the airflow is blocked, and the indicator flap closes.



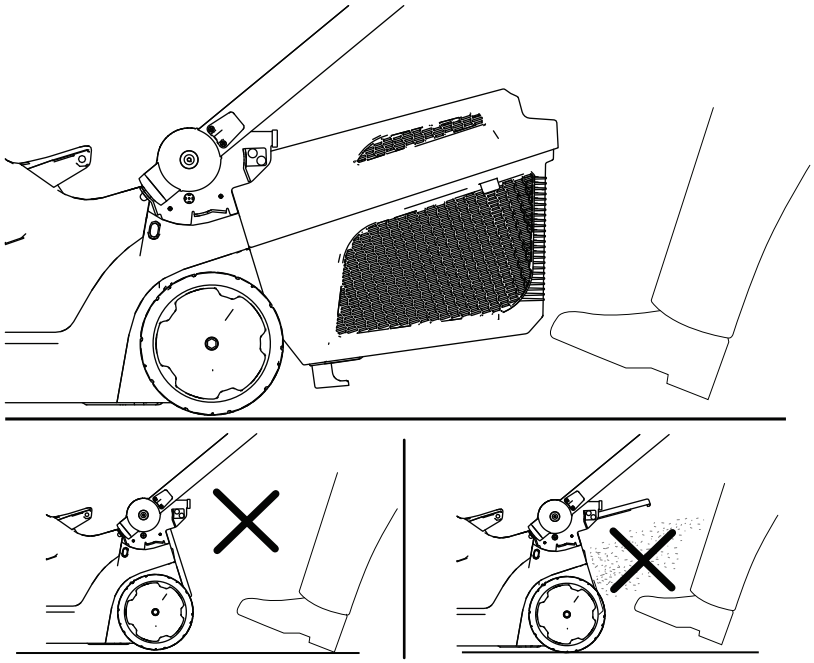
g363501

Figure 15

Removing the Grass Box

To remove the box, reverse the steps in Installing the Grass Box (page 16).

Do not operate the machine with the grass box removed unless the mulch plug is installed. Remove the grass box only when mulching, transporting the machine, storing the machine, or emptying the grass box (Figure 16).

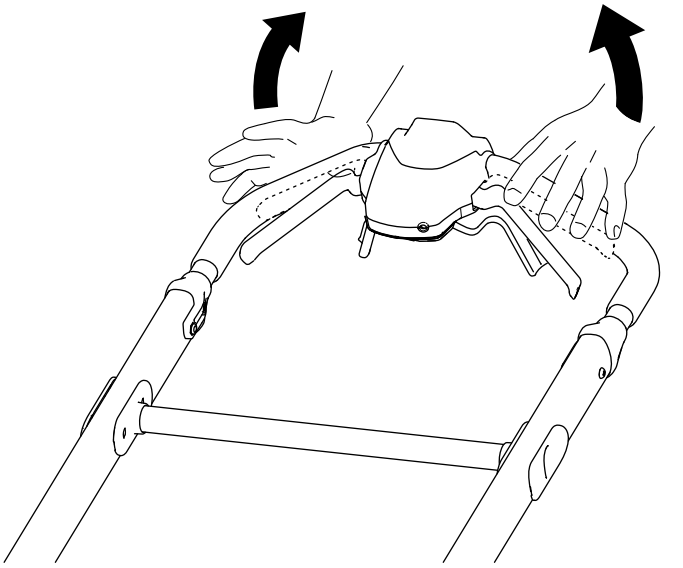


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Figure 16

Shutting Off the Machine

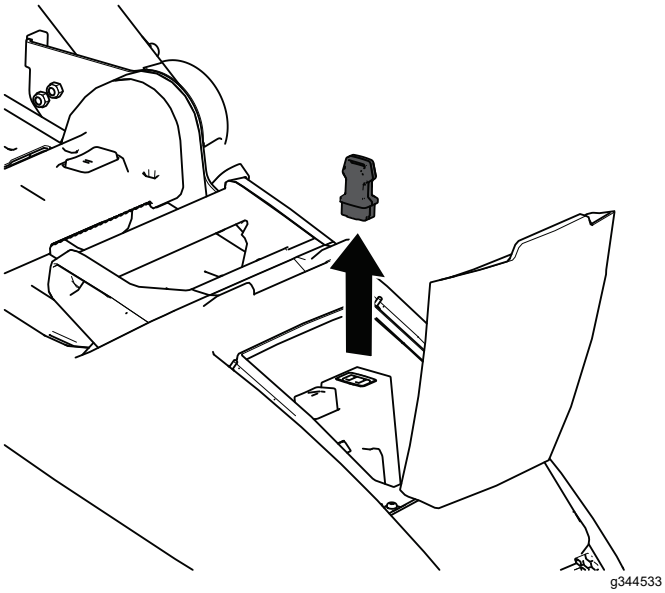
1. Release the blade-control bar (Figure 10).



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Figure 17

2. Remove the safety key from the machine (Figure 10).



g344533

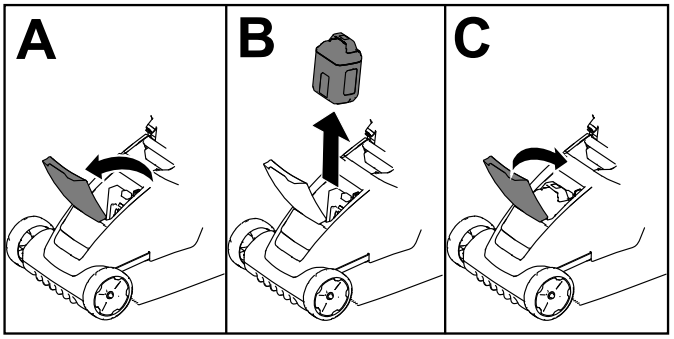
Figure 18

3. Remove the battery pack; refer to Removing the Battery Pack from the Machine (page 18).

   Note: Whenever you are not using the machine, remove the battery pack.

Removing the Battery Pack from the Machine

1. Lift up the battery-compartment lid.
2. Press the battery-pack latch to release the battery pack and remove the battery pack.
3. Close the battery-compartment lid.



g341360

Figure 19

Operating Tips

General Mowing Tips

- Avoid striking solid objects with the blade. Never deliberately mow over any object.
- For best performance, install a new Toro blade before the cutting season begins or when necessary.

Cutting Grass

- Cut only about a third of the grass blade at a time. For improved quality of cut, runtime, and bagging, cut grass at a higher height of cut.
- Do not cut at the lowest height-of-cut setting unless the grass is sparse or it is late fall when grass growth begins to slow down.
- When cutting tall grass, mow at the highest cutting height setting and walk slower; then mow again at a lower setting for the best lawn appearance. If the grass is too long, the machine may plug and cause the motor to stall.
- Wet grass and leaves tend to clump on the yard and can cause the machine to plug or the motor to stall. Avoid mowing in wet conditions.
- Be aware of a potential fire hazard in very dry conditions, follow all local fire warnings, and keep the machine free of dry grass and leaf debris.
- Alternate the mowing direction. This helps disperse the clippings over the lawn for even fertilization.
- If the finished lawn appearance is unsatisfactory, try 1 or more of the following:
  - Replace the blade or have it sharpened.
  - Walk at a slower pace while mowing.
  - Raise the cutting height on your machine.
  - Cut the grass more frequently.
  - Overlap cutting swaths instead of cutting a full swath with each pass.

Cutting Leaves

- After cutting the lawn, ensure that half of the lawn shows through the cut leaf cover. You may need to make more than a single pass over the leaves.
- Remove excessive quantities of leaves from the ground before cutting the leaves. If the machine is not cutting leaves finely enough, slow down your mowing speed, or mow at a higher cutting height and then again at the desired cutting height.

After Operation

Charging the Battery Pack

Important: **The battery pack is not fully charged when you purchase it. Before using the tool for the first time, place the battery pack in the charger and charge it until the LED display indicates the battery pack is fully charged. Read all safety precautions.**

Important: **Charge the battery pack only in temperatures that are within the appropriate range; refer to Specifications (page 11).**

Note: At any time, press the battery-charge-indicator button on the battery pack to display the current charge (LED indicators).

1. Ensure that the vents and charging terminals on the battery pack and charger are clear of any dust and debris.

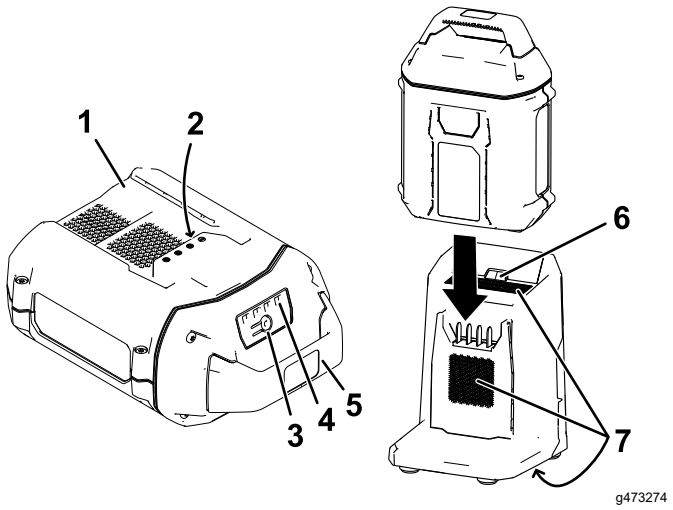
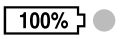
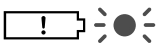


Figure 20

1. Battery-pack cavity
2. Battery-pack terminals
3. Battery-charge-indicator button
4. LED indicators (current charge)
5. Handle
6. Charger LED indicator light
7. Charger venting areas

2. Line up the cavity in the battery pack (Figure 20) with the tongue on the charger.
3. Slide the battery pack into the charger until it is fully seated (Figure 20).
4. To remove the battery pack, slide the battery backward out of the charger.

5. Refer to the following table to interpret the LED indicator light on the battery charger.

Charger Symbol	Indicator Light	Indicates
	Green blinking	Battery pack is charging
	Green	Battery pack is charged
	Red	Battery pack and/or battery charger is over or under the appropriate temperature range
	Red blinking	Battery pack charging fault*
	Off	No battery pack inserted

*Refer to Troubleshooting (page 24) for more information.

Important: **The battery pack can be left on the charger for short periods between uses.**

If the battery pack will not be used for longer periods, remove the battery pack from the charger; refer to Storage (page 23).

Cleaning the Machine

Cleaning under the Machine

Service Interval: After each use

For best results, clean under the machine soon after you have completed mowing.

1. Shut off the machine and remove the battery pack and the safety key.
2. Lower the machine to its lowest cutting-height setting.
3. Set the machine in the vertical-stow position; refer to Storing the Machine in the Vertical-Stow Position (page 21).
4. Using a brush or broom, clean any debris away from the underside of the machine.

   Important: **Do not use water to clean the machine; water may damage electrical components.**
5. Clean the grass box.

Cleaning the Grass Box

Service Interval: After each use

Frequently clean the grass box to ensure maximum collection capability. Brush away any debris.

Folding the Handle

⚠ WARNING

Folding or unfolding the handle improperly can damage the cables, causing an unsafe operating condition.

- **Do not damage the cables when folding or unfolding the handle.**
- **If a cable is damaged, contact an Authorized Service Dealer.**

⚠ WARNING

Ensure that the handle is in the operating position prior to starting the machine to prevent thrown object related injuries.

1. Shut off the machine, remove the safety key, and remove the battery pack; refer to Shutting Off the Machine (page 18).
2. Pull the handlebar release brace toward the upper handle to release the handle lock (Figure 21).
3. Fold the handle halfway forward to the upright position, or fully forward to the vertical-stow position as shown in Figure 21.

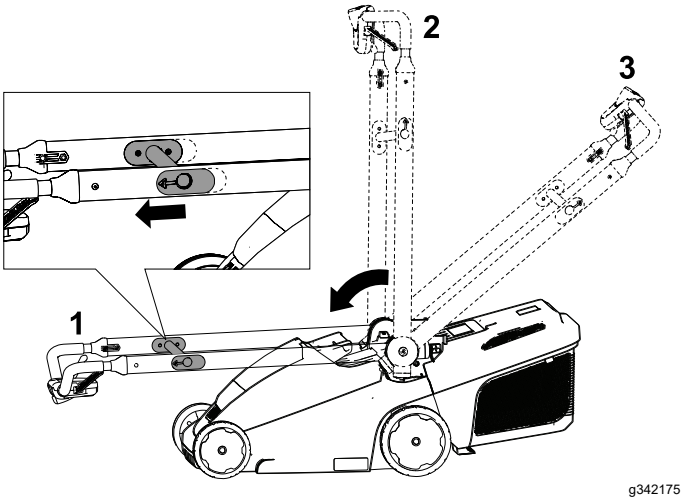


Figure 21

1. Vertical-stow position
2. Upright position
3. Operating position

4. To unfold the handle, refer to 2 Assembling the Handle (page 9).

Storing the Machine in the Vertical-Stow Position

You can store your machine in the vertical position to minimize storage space.

⚠ WARNING

Folding or unfolding the handle improperly can damage the cables, causing an unsafe operating condition.

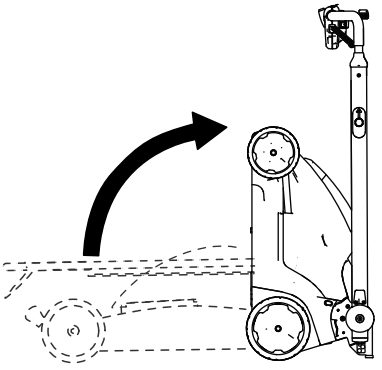
- **Do not damage the cables when folding or unfolding the handle.**
- **If a cable is damaged, contact an Authorized Service Dealer.**

1. Shut off the machine, remove the safety key, and remove the battery pack; refer to Removing the Battery Pack from the Machine (page 18).
2. Fold the handle all the way forward until it clicks into position; refer to Folding the Handle (page 20).
3. Ensure that the grass box is not installed to the machine; if it is, remove it. Refer to Removing the Grass Box (page 17).
4. Ensure that the cutting-height on the machine is set to the highest setting (setting 6); if it is not, raise it. Refer to Adjusting the Cutting Height (page 13).
5. Tilt the machine back and roll it by the handle into a storage space (Figure 22).

⚠ WARNING

Pulling the handlebar release brace unlocks the handlebar, which may cause the mower to suddenly drop to the ground.

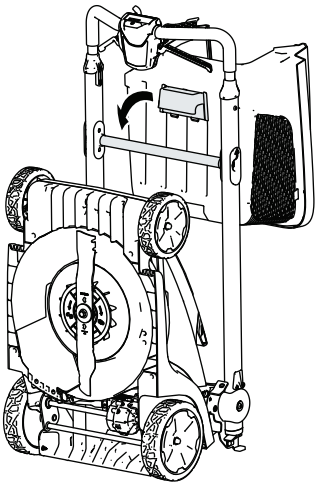
Do not pull the handlebar release brace to move the machine.



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Figure 22

Note: You can hook the grass box onto the handlebar release brace in this position (Figure 23).



g356985

Figure 23

Maintenance

Remove the safety key and battery pack from the machine before maintaining or cleaning the machine.

Always shut off the machine, wait for all moving parts to stop, and allow the machine to cool before adjusting, servicing, cleaning, or storing it.

Use only the manufacturer's recommended replacement parts and accessories.

Inspect and maintain the machine regularly. Have the machine repaired only by an Authorized Service Dealer.

Lubricating the Machine

You do not need to lubricate the machine; all the bearings have been lubricated at the factory for the life of the machine.

Replacing the Blade

Service Interval: Yearly

***Important:* *You will need a torque wrench to install the blade properly*. If you do not have a torque wrench or are uncomfortable performing this procedure, contact an Authorized Service Dealer.**

If the blade is damaged or cracked, replace it immediately. If the blade edge is dull or nicked, have it sharpened and balanced, or replace it.

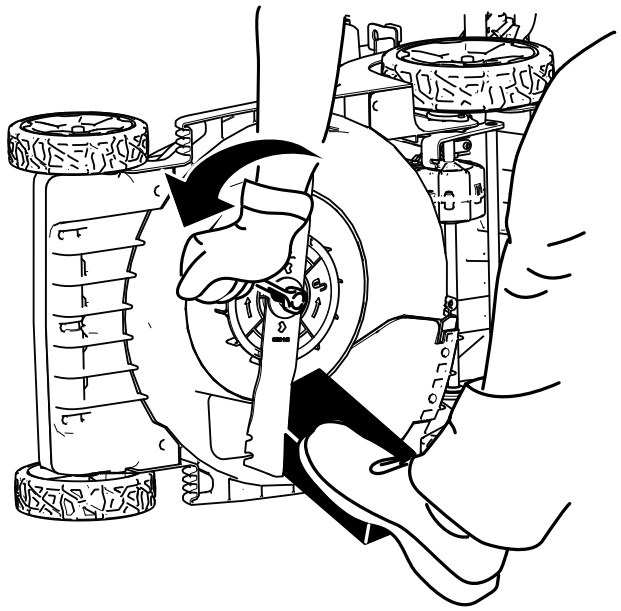
⚠ WARNING

When servicing the blade, be aware that the blade can still move even though the power source is off. The blade is sharp; contacting the blade can result in serious personal injury.

Wear gloves when servicing the blade.

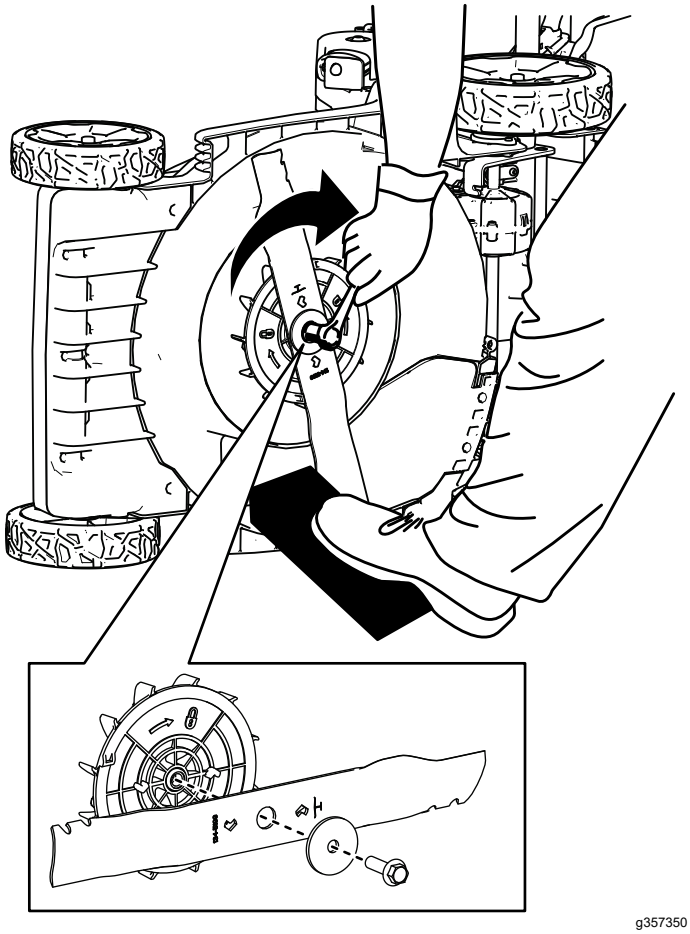
1. Remove the safety key and battery pack from the machine.
2. Use a block of wood to hold the blade steady (Figure 24).
3. Remove the blade bolt, washer, and blade; save the washer and blade bolt (Figure 24).
4. Install the new blade, washer, and blade bolt (Figure 25).

   ***Important:* Position the curved ends of the blade facing up toward the machine housing.**
5. **Use a torque wrench to tighten the blade bolt to 35 N·m (26 ft-lb).**



g357349

Figure 24



g357350

Figure 25

Preparing the Battery Pack for Recycling

Important: **Upon removal, cover the terminals of the battery pack with heavy-duty adhesive tape. Do not attempt to destroy or disassemble the battery pack or remove any of its components.**

Contact your local municipality or your authorized Authorized Service Dealer or distributor for more information on how to responsibly recycle the battery.

	Lithium-ion battery packs labeled with the Call2Recycle seal can be recycled at any participating retailer or battery recycling facility in the Call2Recycle program (US and Canada only). To locate a participating retailer or facility closest to you, please call 1-800-822-8837 or visit www.call2recycle.org.
	Lithium-ion battery packs labeled with the High Energy Battery (HEB) seal shown here, and any 60V Flex-Force batteries 6.0 Ah or greater, can be recycled at any participating dealer or retailer in the Call2Recycle HEB program. To locate a participating dealer or retailer closest to you, please visit www.hebattery.org.

If you cannot locate a participating retailer or facility nearby, or have questions about which recycling program your battery pack may qualify for, please visit the customer support site listed in the operator's manual for your tool/equipment for more information on how to responsibly recycle the battery pack.

If you are located outside of the US and Canada, please contact your Authorized Service Center or distributor for more information on how to responsibly recycle the battery pack.

Storage

Important: **Store the machine, battery pack, and charger only in temperatures that are within the appropriate range; refer to Specifications (page 11).**

Important: **If you are storing the machine for a year or longer, remove the battery pack from the machine and charge the battery pack until 1 or 2 LED indicators turn green on the battery. Do not store a fully charged or fully depleted battery. When you are ready to use the machine again, charge the battery pack until the left indicator light turns green on the charger or all 4 LED indicators turn green on the battery.**

- Disconnect the machine from the power supply (i.e., remove the battery pack and the safety key) and check for damage after use.
- Clean all foreign material from the machine.
- Do not store the machine or charger with the battery pack installed.
- When not in use, store the machine, safety key, battery pack, and battery charger out of the reach of children.
- Keep the machine, battery pack, and battery charger away from corrosive agents such as garden chemicals and de-icing salts.
- To reduce the risk of serious personal injury, do not store the battery pack outside or in vehicles.
- Tighten all fasteners.
- Store the machine, battery pack, and battery charger in an enclosed clean, dry area.

Service

Service Interval: Yearly

Should this machine need service, contact your Authorized Service Dealer.

Troubleshooting

Perform only the steps described in these instructions. All further inspection, maintenance, and repair work must be performed by an authorized service center or a similarly qualified specialist if you cannot solve the problem yourself.

Problem	Possible Cause	Corrective Action
The machine does not start.	1. The battery is not fully installed in the machine. 2. The battery pack is not charged. 3. The battery pack is damaged. 4. There is another electrical problem with the machine.	1. Remove and then replace the battery into the machine, making sure that it is fully installed and latched. 2. Remove the battery pack from the machine and charge it. 3. Replace the battery pack. 4. Contact an Authorized Service Dealer.
The machine does not run or does not run continuously.	1. There is moisture on the leads of the battery pack. 2. The battery is not fully installed into the tool.	1. Allow the battery pack to dry or wipe it dry. 2. Remove and then replace the battery into the tool making sure that it is fully installed and latched.
The machine does not reach full power.	1. The battery pack charge capacity is too low. 2. The air vents are blocked.	1. Remove the battery pack from the machine and fully charge the battery pack. 2. Clean the air vents.
The battery pack loses charge quickly.	1. The battery pack is over or under the appropriate temperature range. 2. The machine is overloaded	1. Move the battery pack to a place where it is dry and the temperature is between 5°C (41°F) and 40°C (104°F). 2. Cut the grass at a higher height of cut or walk at a slower pace while mowing.
The battery charger is not working.	1. The battery charger is over or under the appropriate temperature range. 2. The outlet that the battery charger is plugged into does not have power.	1. Unplug the battery charger and move it to a place where it is dry and the temperature is between 5°C (41°F) and 40°C (104°F). 2. Contact your licensed electrician to repair the outlet.
The machine does not self-propel.	1. The self propel drive system or power cable is damaged.	1. Contact an Authorized Service Dealer.
The LED indicator light on the battery charger is red.	1. The battery charger and/or battery pack is over or under the appropriate temperature range.	1. Unplug the battery charger and move the battery charger and battery pack to a place where it is dry and the temperature is between 5°C (41°F) and 40°C (104°F).

Problem	Possible Cause	Corrective Action
The LED indicator light on the battery charger is blinking red.	1. There is an error in the communication between the battery pack and the charger.	1. Remove the battery pack from the battery charger, unplug the battery charger from the outlet, and wait 10 seconds. Plug the battery charger into the outlet again and place the battery pack on the battery charger. If the LED indicator light on the battery charger is still blinking red, repeat this procedure again. If the LED indicator light on the battery charger is still blinking red after 2 attempts, properly dispose of the battery pack at a battery recycling facility.
	2. The battery pack is weak.	2. Contact your authorized service dealer if the battery is in warranty, or properly dispose of the battery pack at a battery recycling facility.
The machine is producing a beeping sound.	1. The battery pack is not charged.	1. Remove the battery pack from the machine and charge it.
	2. The machine is in an unsafe position for operation.	2. Ensure that the machine is not at an extreme angle while operating.
	3. The machine is overloaded.	3. Cut the grass at a higher height of cut or walk at a slower pace while mowing.
	4. There is another electrical problem with the machine.	4. Attempt the other troubleshooting actions, if the alarm still sounds, contact an Authorized Service Dealer.
The quality of cut is decreased or unsatisfactory.	1. The blade is dull.	1. Have the blade sharpened or replaced.
	2. The cutting deck has debris buildup.	2. Clean under the machine.
The bagging is decreased or unsatisfactory.	1. The machine is overloaded.	1. Cut the grass at a higher height of cut.
	2. The grass box vents are blocked.	2. Clean the grass box with water and a soft brush.
The machine is cutting unevenly.	1. The blade is dull.	1. Have the blade sharpened or replaced.
	2. The cutting deck is damaged.	2. Contact an Authorized Service Dealer.
The machine is vibrating.	1. The blade is bent or damaged.	1. Inspect the blade and replace if necessary.

Notes:

Notes:



Count on it.