Form No. 3465-556 Rev B

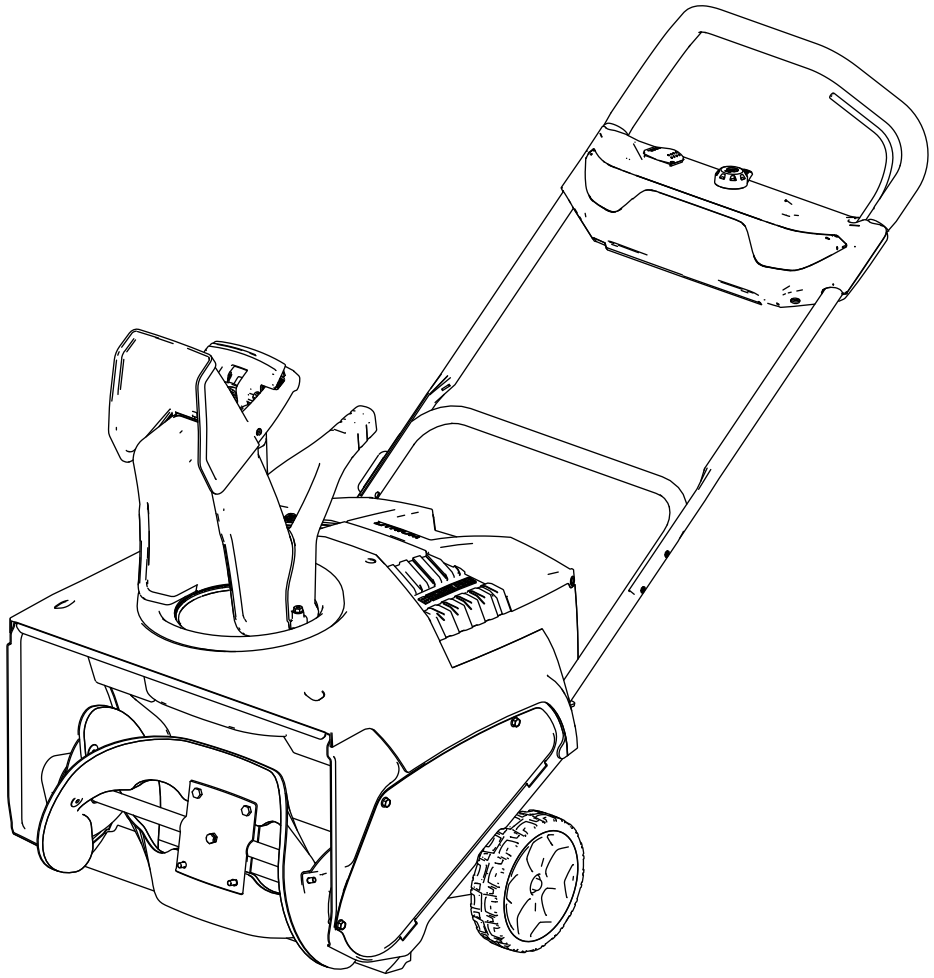
TORO®

Count on it.

Operator's Manual

21in Power Clear® Flex-Force Power System® 60V MAX Commercial Snowthrower

Model No. 39922T—Serial No. 414441380 and Up



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

3465-556

For assistance, please see www.Toro.com/support for instructional videos or contact 1-888-384-9939 before returning this product.

⚠ WARNING

CALIFORNIA
Proposition 65 Warning

Use of this product may cause exposure to chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

Introduction

This machine is intended to be used by residential homeowners. It is designed for removing snow from patios, sidewalks, and small driveways. It is not designed for removing materials other than snow, nor is it designed for clearing gravel surfaces. It is designed to use Toro 60V lithium-ion battery packs. These battery packs are designed to be charged only by Toro 60V lithium-ion battery chargers. Using this product for purposes other than its intended use could prove dangerous to you and bystanders.

Model 39922T does 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 Toro parts, or additional information, contact an Authorized Service Dealer or Toro 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.

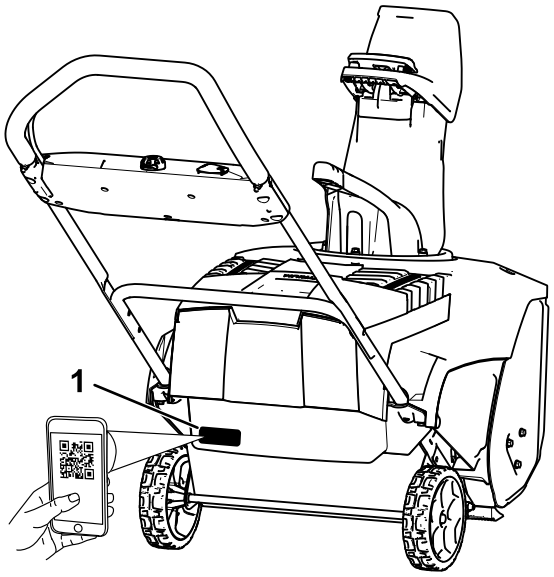


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Figure 1

1. Model and serial number location

Model No. _____

Serial No. _____

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

Safety

READ ALL INSTRUCTIONS

WARNING—When using an electrical machine, basic safety precautions should always be followed to reduce the risk of fire, electric shock, or injury, including the following:

I. Training

1. The operator of the machine is responsible for any accidents or hazards occurring to others or their property.
2. Read and understand the contents of this *Operator's Manual* before you start the machine. Ensure that everyone using this machine knows how to use it, knows how to shut it off quickly, and understands the warnings.
3. 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.
4. Do not allow children or untrained people to operate or service this device. Allow only people who are responsible, trained, familiar with the instructions, and physically capable to operate or service the device.
5. Before using the machine, battery pack, and battery charger, read all the instructions and cautionary markings on these products.
6. Become familiar with the controls and proper use of the machine, battery pack, and battery charger.

II. Preparation

1. Keep bystanders and children out of the operating area.
2. Never allow children to operate the machine.
3. Do not operate the machine without all guards and safety devices in place and functioning properly on the machine.
4. Inspect the area where you will use the machine and remove all objects that could interfere with the operation of the machine or that the machine could throw.
5. Use only the battery pack specified by Toro. Using other accessories and attachments may increase the risk of injury and fire.
6. Plugging the battery charger into an outlet that is not 120 V can cause a fire or electric shock. Do not plug the battery charger into an outlet other than 120 V.
7. 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.

8. If the supply cord to the battery charger is damaged, contact an Authorized Service Dealer to replace it.
9. Charge the battery pack with only the battery charger specified by Toro. A charger suitable for 1 type of battery pack may create a risk of fire when used with another battery pack.
10. Charge the battery pack in a well-ventilated area only.
11. 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.
12. Dress properly—Wear appropriate clothing, including eye protection; long pants; substantial, slip-resistant rubber boots; and hearing protection. Tie back long hair and do not wear loose clothing or loose jewelry that can get caught in moving parts.

III. Operation

1. Contact with the moving rotor will cause serious injury. Keep your hands and feet away from all moving parts of the machine. Keep clear of any discharge opening.
2. Stay behind the handles and away from the discharge opening while operating the machine.
3. Using this machine for purposes other than its intended use could prove dangerous to you and bystanders.
4. Prevent unintentional starting—Ensure that the electric-start button is removed from the ignition before connecting the battery pack and handling the machine.
5. Use your full attention while operating the machine. Do not engage in any activity that causes distractions; otherwise, injury or property damage may occur.
6. Stop the machine, remove the electric-start button, remove the battery pack from the machine, and wait for all movement to stop before adjusting, servicing, cleaning, or storing the machine.
7. Do not use the machine on a gravel surface.
8. Remove the battery pack and electric-start button from the machine whenever you leave it unattended or before changing accessories.
9. Do not force the machine—Allow the machine to do the job better and safer at the rate for which it was designed.
10. Stay alert—Watch what you are doing and use common sense when operating the machine. Do not use the machine while ill, tired, or under the influence of alcohol or drugs.
11. Operate the machine only in good visibility and appropriate weather conditions.
12. Use extreme caution when reversing or pulling the machine toward you.
13. Keep proper footing and balance at all times, especially on slopes. Use extreme caution when changing directions on slopes. Do not operate the machine on exceedingly steep slopes. Walk, never run with the machine.
14. When not actively clearing snow, disengage power to the auger.
15. Do not direct the discharge material toward anyone. Avoid discharging material against a wall or obstruction; material may ricochet toward you. Stop the machine when crossing gravel surfaces.
16. Never operate the machine at high transport speeds on slippery surfaces.
17. Exercise extreme caution when operating the machine on or crossing drives, walks, or roads. Stay alert for hidden hazards or traffic.
18. 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.
19. Shut off the machine whenever you leave the operating position for any reason.
20. Shut off the machine before unclogging the machine and always use a stick or a cleanout tool to remove the clog.
21. Stop the machine and remove the electric-start button before loading the machine for hauling.
22. 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.
23. Do not expose a battery pack or tool to fire or excessive temperature. Exposure to fire or temperature above 130°C (265°F) may cause explosion.
24. CAUTION—A mistreated battery pack may present a risk of fire, explosion, or chemical burn.

- Do not disassemble the battery pack.
- Replace the battery pack with a genuine Toro battery pack only; using another type of battery pack may cause a fire or risk of injury.
- Keep battery packs out of the reach of children and in the original packaging until you are ready to use them.

IV. Maintenance and Storage

1. Stop the machine, remove the electric-start button, remove the battery pack from the machine, and wait for all movement to stop before adjusting, servicing, cleaning, or storing the machine.
2. 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.
3. Wear gloves and eye protection when servicing the machine.
4. When servicing the rotor, be aware that the rotor can still move even though the power source is off.
5. 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.
6. Maintain the machine—Keep handles dry, clean, and free from oil and grease. Keep guards in place and in working order. Use identical replacement parts only.
7. Check all fasteners at frequent intervals for proper tightness to ensure that the machine is in safe working condition.
8. Check the machine for damaged parts. Check for misaligned and binding moving parts, broken parts, mounting, and any other condition that may affect its operation. Unless indicated in the instructions, have an Authorized Service Dealer repair or replace a damaged guard or part.
9. 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 1 terminal to another. Shorting the battery terminals may cause burns or a fire.
10. When you are not using the machine, store it indoors in a dry, secure place out of the reach of children.
11. When storing the machine for more than 30 days, refer to Storage (page 14) for important information.
12. Do not dispose of the battery in a fire. The cell may explode. Check with local codes for possible special disposal instructions.

SAVE THESE INSTRUCTIONS

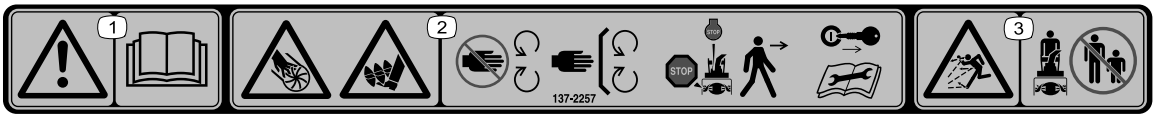
Safety and Instructional Decals

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.



decal161-2157

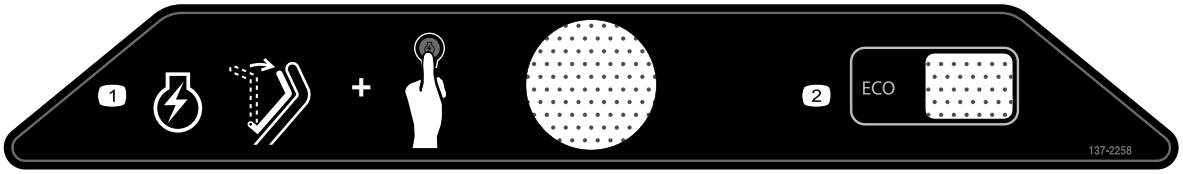
161-2157



decal137-2257

137-2257

1. Warning—read the *Operator's Manual*.
2. Cutting/dismemberment of hand hazard, impeller; cutting/entanglement of foot hazard, auger—stay away from moving parts; keep all guards and shields in place; shut off the engine and remove the key before leaving the machine; read the *Operator's Manual* before performing maintenance.
3. Thrown object hazard—keep bystanders away.



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1. To start the motor, bring the bail to the handle and press the ignition button.
2. ECO



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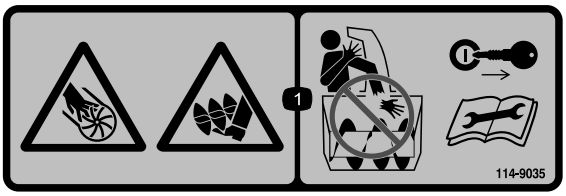
147-9420



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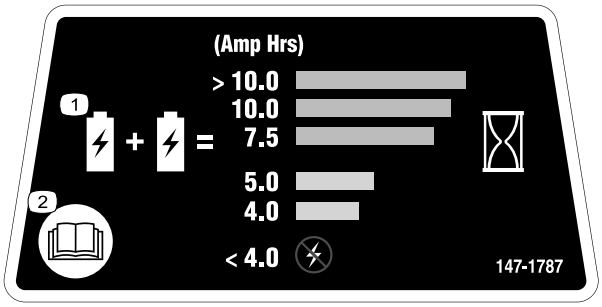
1. Cutting/dismemberment hazard of hand, impeller; cutting/dismemberment hazard of foot, auger—do not place your hand in the chute; remove the key and read the *Operator's Manual* before performing maintenance.



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147-1787

1. The combined Ah rating of all installed batteries must be greater than 4.0Ah to start the machine, and greater than 7.5Ah for best runtime and operation.
2. Read the *Operator's Manual*.

Setup

1

Unfolding the Handle

Parts needed for this procedure:

4	Hex-head screw
8	Washer
4	Locknut

Procedure

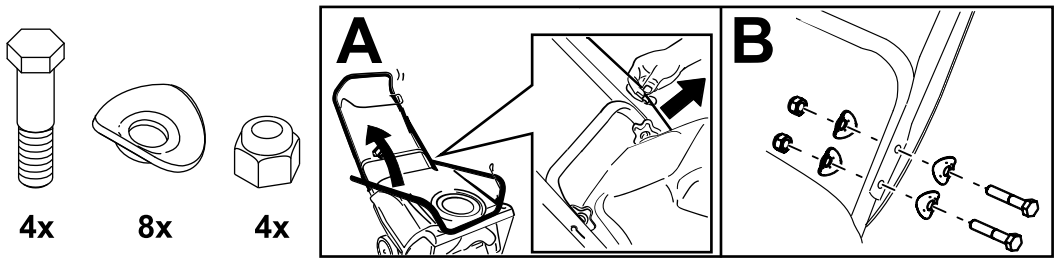

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Figure 3

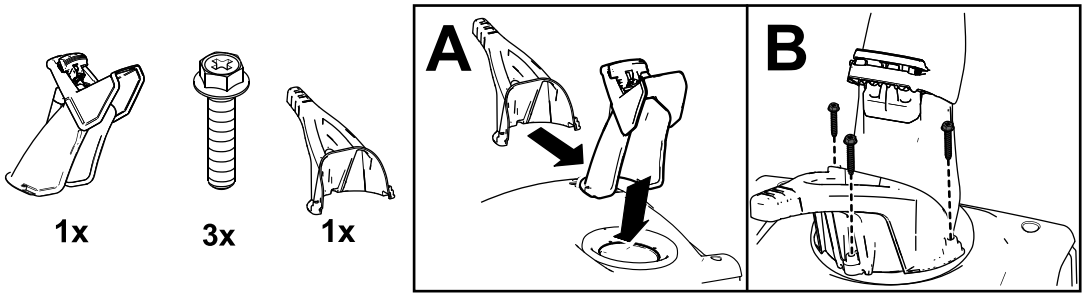
2

Installing the Discharge Chute

Parts needed for this procedure:

1	Discharge chute assembly
3	Hex washer head screw
1	Chute handle

Procedure



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Product Overview

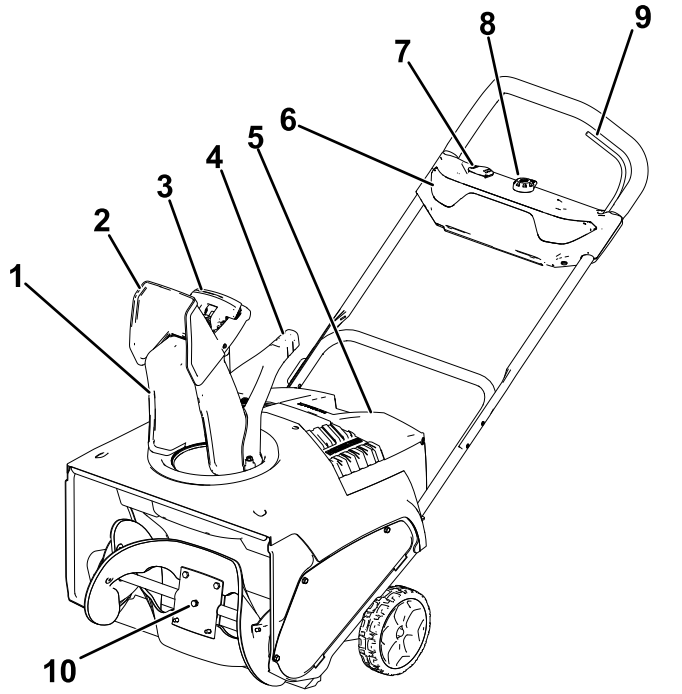

Figure 5

1. Discharge chute
2. Chute deflector
3. Chute-deflector trigger
4. Chute handle
5. Battery-compartment lid
6. Headlight
7. ECO switch
8. Electric-start button
9. Bail
10. Rotor blades

Specifications

Battery Charger

Model	**39922T**
Rated Voltage	60V DC maximum, 54 VDC nominal usage
Charger Type	Toro 60V lithium-ion chargers
Battery Type	Toro 60V lithium-ion batteries

Appropriate Temperature Ranges

Charge/store the battery pack at	5°C (41°F) to 40°C (104°F)*
Use the machine at	-30°C (-22°F) to 23°C (73°F)*
Store the machine at	-30°C (-22°F) to 49°C (120°F)*

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

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

Attachments/Accessories

A selection of Toro approved attachments and accessories may be available for use with the machine to enhance and expand its capabilities. Contact your Authorized Service Dealer or authorized Toro distributor or go to www.Toro.com for a list of all approved attachments and accessories.

To ensure optimum performance and continued safety certification of the machine, use only genuine Toro replacement parts and accessories. Replacement parts and accessories made by other manufacturers could be dangerous, and such use could void the product warranty.

Operation

Installing the Battery Pack(s)

Important: **Use a battery pack only in temperatures that are within the appropriate range; refer to Specifications (page 9).**

1. Make sure that the vents on the battery are clear of any dust and debris.
2. Lift up the battery-compartment lid (A of Figure 6).
3. 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 6).
4. Close the battery-compartment lid (C of Figure 6).

   Note: Ensure that the battery-compartment lid is completely closed and snapped into place before starting the machine.

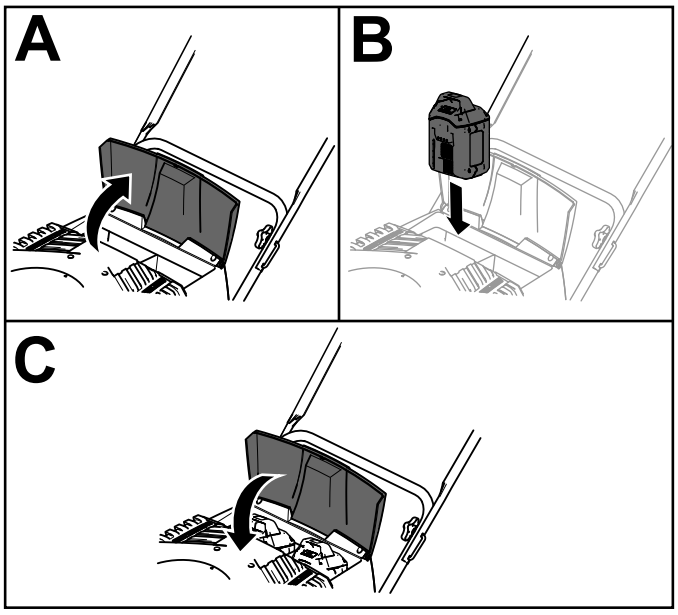

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Figure 6

Starting the Machine

1. Ensure that the battery pack (or battery packs) are installed in the machine; refer to Installing the Battery Pack(s) (page 10).
2. Insert the electric-start button into the electric starter (A of Figure 7).
3. Squeeze the bail and hold it to the handle (B and C of Figure 7).

   Note: When you squeeze the bail, the lights turn on and the battery-charge indicator lights on the battery illuminate.
4. Press the electric-start button until the motor starts (D of Figure 7).

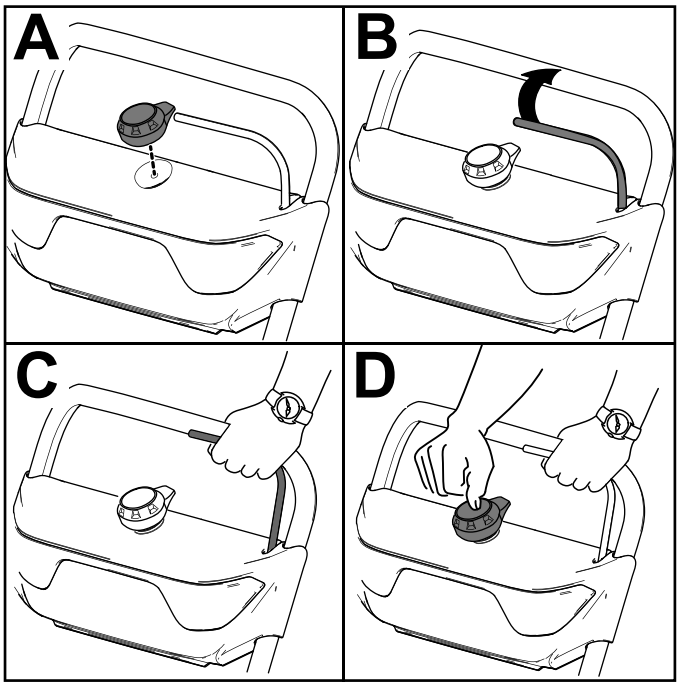

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Figure 7

Note: This is a ground-engaging machine; rotor contact with the ground is intentional and propels the machine forward.

Activating ECO Mode

Using ECO mode may extend battery life by reducing rotor speed; use ECO mode whenever you are moving snow a short distance. Activate ECO mode using the ECO switch as shown in Figure 5.

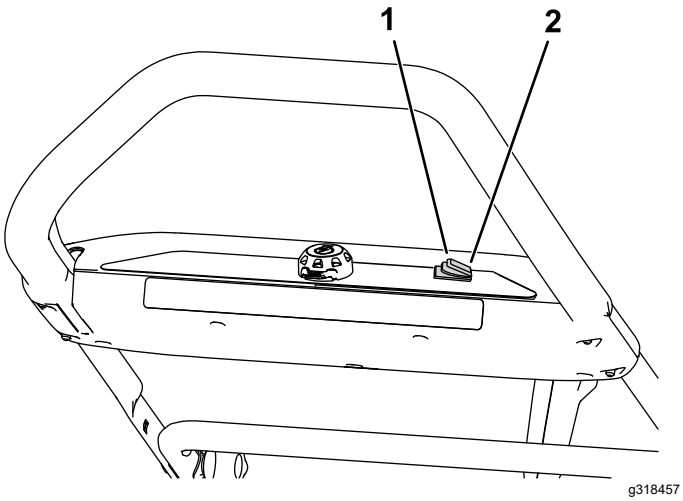

Figure 8

1. Turn ECO mode on
2. Turn ECO mode off

Shutting Off the Machine

1. Release the bail (A of Figure 9).
2. Remove the electric-start button from the electric starter (B of Figure 9).
3. Remove the battery pack(s); refer to Removing the Battery Pack(s) from the Machine (page 11).

   Note: Whenever you are not using the appliance, remove the battery pack(s).

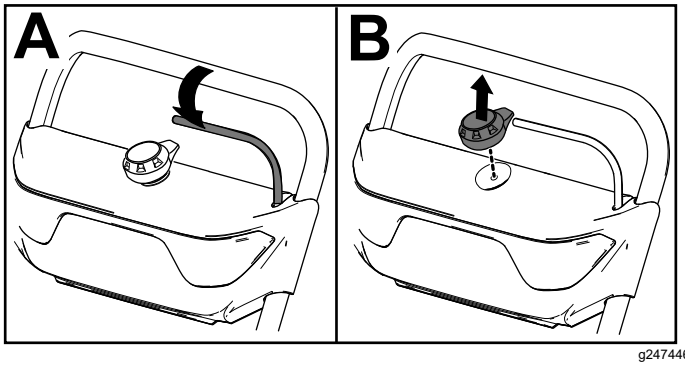

Figure 9

Removing the Battery Pack(s) from the Machine

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

Preventing Freeze-up after Use

- Let the motor run for a few minutes to prevent moving parts from freezing. Shut off the machine, wait for all moving parts to stop, and remove ice and snow from the machine.
- Clean off any snow and ice from the base of the chute.
- Rotate the discharge chute left and right to free it from any ice buildup.
- In snowy and cold conditions, some controls and moving parts may freeze. Do not use excessive force when trying to operate frozen controls. If you have difficulty operating any control or part, start the machine and let it run for a few minutes.

Adjusting the Discharge Chute and Chute Deflector

To adjust the discharge chute, move the chute handle.

To adjust the chute deflector (and therefore the height of the snow stream), squeeze the trigger and raise or lower the chute deflector (Figure 10).

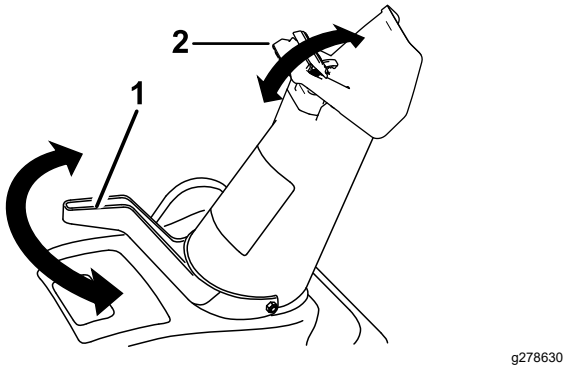

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Figure 10

1. Chute handle
2. Trigger

⚠ WARNING

A gap between the discharge chute and the chute deflector may allow the machine to throw snow and objects in the direction of the operator. Thrown objects could cause serious personal injury.

- **Do not force the chute deflector too far forward so that a gap appears between the discharge chute and chute deflector.**
- **Do not adjust the chute deflector with the power control bar engaged. Release the power control bar before adjusting the chute deflector.**

Clearing a Clogged Discharge Chute

If the machine is running but there is no snow coming out of the discharge chute, the discharge chute may be clogged.

⚠ WARNING

Contacting a rotating rotor with your hands inside the discharge chute could cause serious personal injury.

Never use your hands to clean out the discharge chute.

1. Shut off the machine, remove the electric-start button, and remove the battery pack.
2. Wait 10 seconds to ensure that the rotor blades have stopped rotating.
3. Always use a clean-out tool, not your hands, to clear the chute.

Operating Tips

⚠ WARNING

The rotor can throw stones, toys, and other foreign objects and cause serious personal injury to you or bystanders.

- **Keep the area to be cleared free of all objects that the rotor blades could pick up and throw.**
- **Keep all children and pets away from the area of operation.**

- Remove the snow as soon as possible after it falls.
- Push the machine forward, but allow it to work at its own pace.
- Overlap each swath to ensure complete snow removal.
- Discharge the snow downwind whenever possible.
- If the machine does not propel itself forward on slippery surfaces or in heavy snow, push forward on the handle, but allow the machine to work at its own pace.
- The machine may leave rubber marks on new brushed or light-colored concrete. Test on an inconspicuous location before use. These marks are not permanent.

Maintenance

Stop the machine, remove the electric-start button, remove the battery pack from the machine, and wait for all movement to stop before adjusting, servicing, cleaning, or storing the machine.

Inspecting the Rotor Blades

Service Interval: Yearly—Inspect the rotor blades and have an Authorized Service Dealer replace the rotor blades and scraper if necessary.

Before each session, inspect the rotor blades for wear. When a rotor-blade edge has worn down to the wear-indicator hole, have an Authorized Service Dealer replace the rotor blades and the scraper (Figure 11).

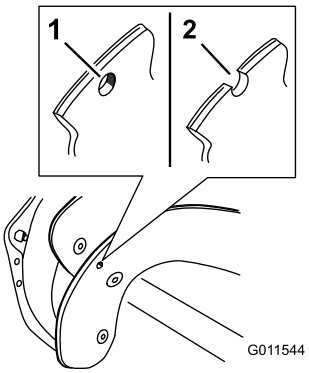

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Figure 11

1. The wear-indicator hole is intact; you do not need to replace the rotor blades.
2. The wear-indicator hole is exposed; replace the rotor blades and scraper.

Storage

Important: **Store the machine, battery pack, and charger only in temperatures that are within the appropriate range; refer to Specifications (page 9).**

Important: **If you are storing the battery pack for the off-season, charge it until 2 or 3 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 product from the power supply (i.e., remove the plug from the power supply or the battery pack) and check for damage after use.
- Clean all foreign material from the product.
- Do not store the tool with the battery pack installed.
- When not in use, store the machine, 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.
- Store the machine, battery pack, and battery charger in an enclosed clean, dry area.

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 run or does not run continuously.	1. The battery pack is low on charge. 2. The battery is not fully installed in the machine. 3. The battery pack is over or under the appropriate temperature range. 4. The battery pack has exceeded high amperage limits. 5. There is moisture on the leads of the battery pack. 6. The battery pack is damaged. 7. There is another electrical problem with the machine.	1. Charge the battery pack. 2. Remove and then reseat the battery into the machine, making sure that it is fully installed and latched. 3. 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). 4. Release the trigger, then press the trigger switch. 5. Allow the battery pack to dry or wipe it dry. 6. Replace the battery pack. 7. Contact your Authorized Service Dealer.
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 machine runs, but the machine discharges snow poorly or not at all.	1. The machine is overloaded. 2. You are trying to remove too much snow per swath. 3. You are trying to remove extremely heavy or wet snow. 4. The discharge chute is plugged. 5. The auger/impeller drive belt is loose or is off the pulley. 6. The auger/impeller drive belt is worn or broken.	1. Push the machine with less force, or at a slower pace. 2. Reduce the amount of snow removed per swath. 3. Do not overload the machine with extremely heavy or wet snow. 4. Unclog the discharge chute. 5. Install and/or adjust the auger/impeller drive belt; refer to www.Toro.com for servicing information or take the machine to an Authorized Service Dealer. 6. Replace the auger/impeller drive belt; refer to www.Toro.com for servicing information or take the machine to an Authorized Service Dealer.
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. Push the machine with less force.
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 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 overloaded.	2. Walk at a slower pace while clearing snow.
	3. There is another electrical problem with the machine.	3. Attempt the other troubleshooting actions, if the alarm still sounds, contact an Authorized Service Dealer.

Notes:

Notes:

California Proposition 65 Warning Information

What is this warning?

You may see a product for sale that has a warning label like the following:



WARNING: Cancer and Reproductive Harm—www.p65Warnings.ca.gov.

What is Prop 65?

Prop 65 applies to any company operating in California, selling products in California, or manufacturing products that may be sold in or brought into California. It mandates that the Governor of California maintain and publish a list of chemicals known to cause cancer, birth defects, and/or other reproductive harm. The list, which is updated annually, includes hundreds of chemicals found in many everyday items. The purpose of Prop 65 is to inform the public about exposure to these chemicals.

Prop 65 does not ban the sale of products containing these chemicals but instead requires warnings on any product, product packaging, or literature with the product. Moreover, a Prop 65 warning does not mean that a product is in violation of any product safety standards or requirements. In fact, the California government has clarified that a Prop 65 warning "is not the same as a regulatory decision that a product is 'safe' or 'unsafe.'" Many of these chemicals have been used in everyday products for years without documented harm. For more information, go to https://oag.ca.gov/prop65/faqs-view-all.

A Prop 65 warning means that a company has either (1) evaluated the exposure and has concluded that it exceeds the "no significant risk level"; or (2) has chosen to provide a warning based on its understanding about the presence of a listed chemical without attempting to evaluate the exposure.

Does this law apply everywhere?

Prop 65 warnings are required under California law only. These warnings are seen throughout California in a wide range of settings, including but not limited to restaurants, grocery stores, hotels, schools, and hospitals, and on a wide variety of products. Additionally, some online and mail order retailers provide Prop 65 warnings on their websites or in catalogs.

How do the California warnings compare to federal limits?

Prop 65 standards are often more stringent than federal and international standards. There are various substances that require a Prop 65 warning at levels that are far lower than federal action limits. For example, the Prop 65 standard for warnings for lead is 0.5 µg/day, which is well below the federal and international standards.

Why don't all similar products carry the warning?

- Products sold in California require Prop 65 labelling while similar products sold elsewhere do not.
- A company involved in a Prop 65 lawsuit reaching a settlement may be required to use Prop 65 warnings for its products, but other companies making similar products may have no such requirement.
- The enforcement of Prop 65 is inconsistent.
- Companies may elect not to provide warnings because they conclude that they are not required to do so under Prop 65; a lack of warnings for a product does not mean that the product is free of listed chemicals at similar levels.

Why does Toro include this warning?

Toro has chosen to provide consumers with as much information as possible so that they can make informed decisions about the products they buy and use. Toro provides warnings in certain cases based on its knowledge of the presence of one or more listed chemicals without evaluating the level of exposure, as not all the listed chemicals provide exposure limit requirements. While the exposure from Toro products may be negligible or well within the "no significant risk" range, out of an abundance of caution, Toro has elected to provide the Prop 65 warnings. Moreover, if Toro does not provide these warnings, it could be sued by the State of California or by private parties seeking to enforce Prop 65 and subject to substantial penalties.



Count on it.