



Count on it.

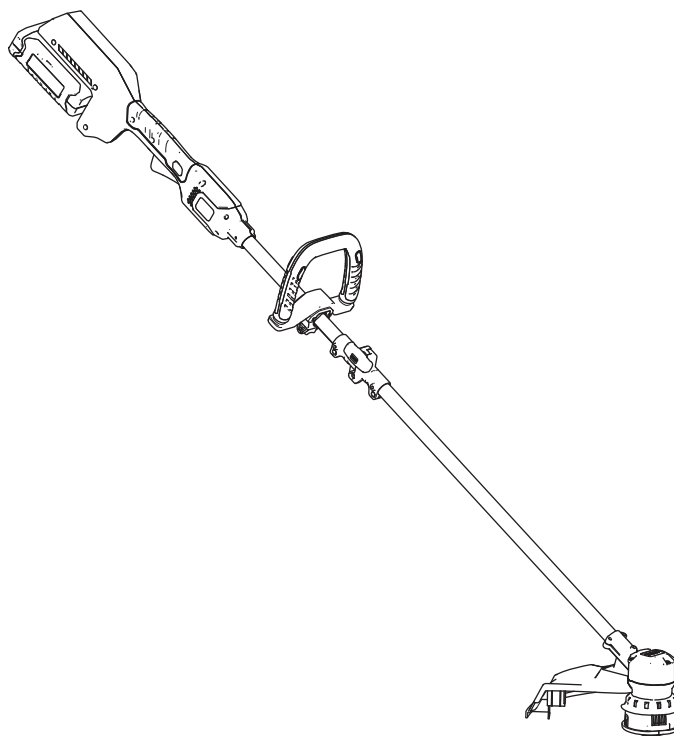
Form No. 3424-865 Rev A

Operator's Manual

PowerPlex 14in 40V MAX String Trimmer

Model No. 51482—Serial No. 319000001 and Up

Model No. 51482T—Serial No. 319000001 and Up





If you have questions or problems, call toll free 1-800-237-2654 (US) or 1-800-248-3258 (Canada) before returning this product.

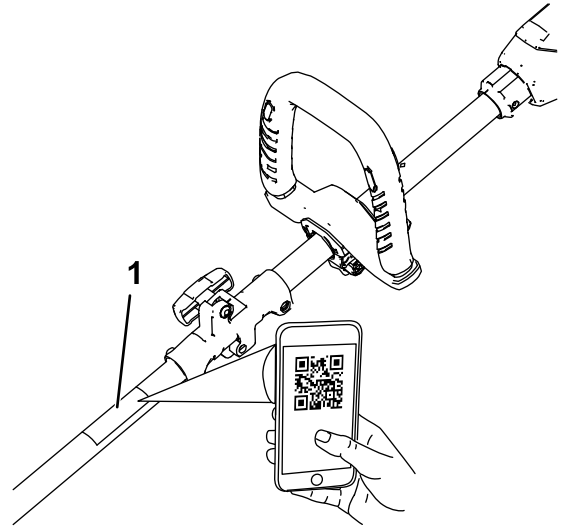
⚠ WARNING

CALIFORNIA Proposition 65 Warning

The power cord on this product contains lead, a chemical known to the State of California to cause birth defects or other reproductive harm. Wash hands after handling.

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

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



g263334

Figure 1

1. Model and serial number location

Introduction

This trimmer is intended to be used by residential homeowners to trim grass as needed outdoors. It is designed primarily to use battery pack Model 88540 (provided with Model 51482) or 88541.

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.

You may contact Toro directly at www.Toro.com for product and accessory information, help finding a dealer, complete warranty details, or to register your product.

Model 51482T does not include a battery pack or a charger.

Safety

⚠ WARNING

Failure to follow all warnings and instructions may result in electric shock, fire and/or serious personal injury.

Read all safety warnings and all instructions.

Save all warnings and instructions for future reference.

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

1. Work area safety

- A. **Keep the 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.*
- D. **Avoid dangerous environments.** *Do not use appliances in damp or wet locations.*

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

- E. **Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts.** *Loose clothes, jewelry, or long hair can be caught in moving parts.*
- F. **Keep your hands and feet away from the cutting area.**

3. 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. **Remove the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.** *Such preventive 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. **Store idle appliances indoors.** *When not in use, appliances should be stored indoors in a dry and high or locked-up place, out of the reach of children.*
- F. **Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tools operation. If damaged, have the power tool repaired before use.** *Many accidents are caused by poorly maintained power tools.*
- G. **Maintain appliance with care. Keep cutting edge sharp and clean for best performance and to reduce the risk of injury.** *Follow instructions for lubricating and changing accessories. Keep handles dry, clean, and free from oil and grease.*
- H. **Keep cutting tools sharp and clean.** *Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.*
- I. **Use the power tool in accordance with these instructions and in the manner intended for the particular type of power tool, taking into account the working**

conditions and the work to be performed.

Using the power tool for operations different from those intended could result in a hazardous situation.

- J. **Keep guards in place and in working order.**
- K. **Check for damaged parts.** *Before further use of the appliance, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other condition that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced by an authorized service center unless indicated elsewhere in this manual.*

4. **Service**

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.*

5. **Battery Safety**

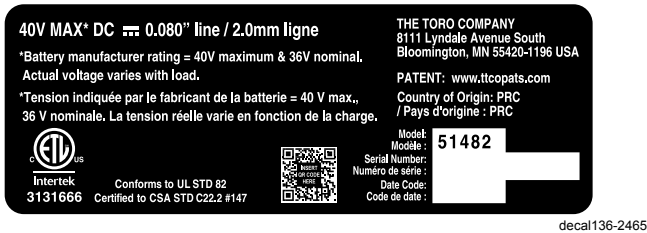
- A. *Do not charge appliance in rain or in wet locations.*
- B. *Do not use battery-operated appliance in the rain.*
- C. *Use only the following type and size battery(ies): Toro battery Model 88540 or 88541.*
- D. *Remove or disconnect the battery before servicing, cleaning, or removing material from the gardening appliance.*
- E. *Do not dispose of the battery(ies) in a fire. The cell may explode. Check with local codes for possible special disposal instructions.*
- F. *Do not open or mutilate the battery(ies). Released electrolyte is corrosive and may cause damage to the eyes or skin. It may be toxic if swallowed.*
- G. *Exercise care in handling batteries in order not to short the battery with conducting materials such as rings, bracelets, and keys. The battery or conductor may overheat and cause burns.*

SAVE THESE INSTRUCTIONS

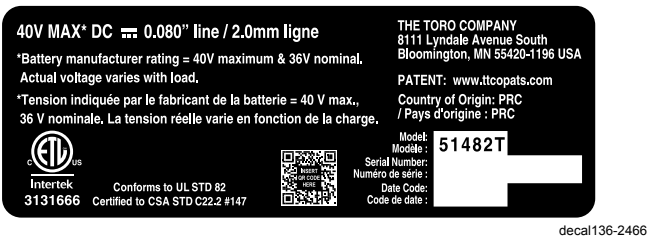
Safety and Instructional Decals



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.



136-2465
Model 51482



136-2466
Model 51482T



136-2473

decal136-2473



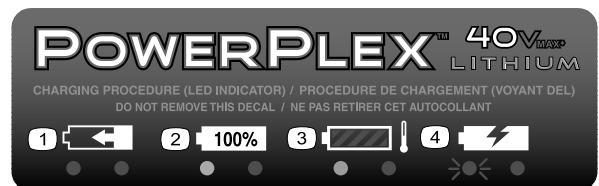
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138-6694

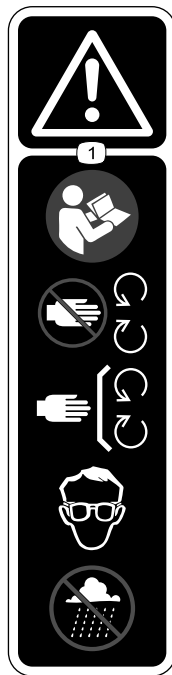
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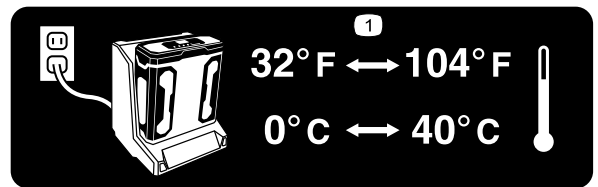
1. The battery pack is charging.
2. The battery pack is fully charged.
3. The battery pack is too warm.
4. Replace the battery pack.



136-2533

decal136-2533

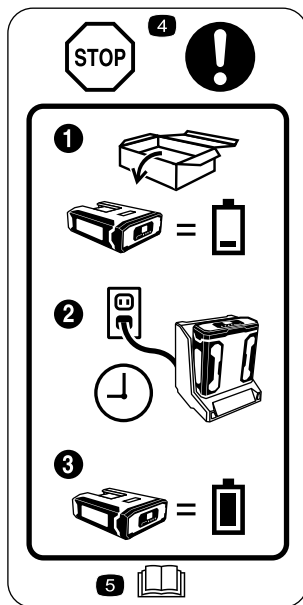
1. Warning—read the *Operator's Manual*; keep away from moving parts; keep all guards and covers in place; wear eye protection; do not operate in wet conditions.



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1. Charge the battery where the temperature is between 0°C and 40°C (32°F and 104°F).



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136-2534

1. The battery does not come out of the box fully charged.
2. Place the battery in the battery charger.
3. Wait until the battery is fully charged before the first use.
4. Stop—follow these instructions before first use.
5. Read the *Operator's Manual*.

Setup

Loose Parts

Use the chart below to verify that all parts have been shipped.

Procedure	Description	Qty.	Use
1	No parts required	–	Mount the battery charger (optional).
2	Connector knob	1	Unfold the handle.
3	Auxiliary handle	1	Install the auxiliary handle.
4	Guard Phillips head screw	1 4	Install the guard.

Note: The battery pack is not fully charged when you purchase it. Before using the tool for the first time, refer to [Charging the Battery Pack \(page 11\)](#).

1

Mounting the Battery Charger (Optional)

No Parts Required

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 2](#) for assistance in mounting the charger.

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

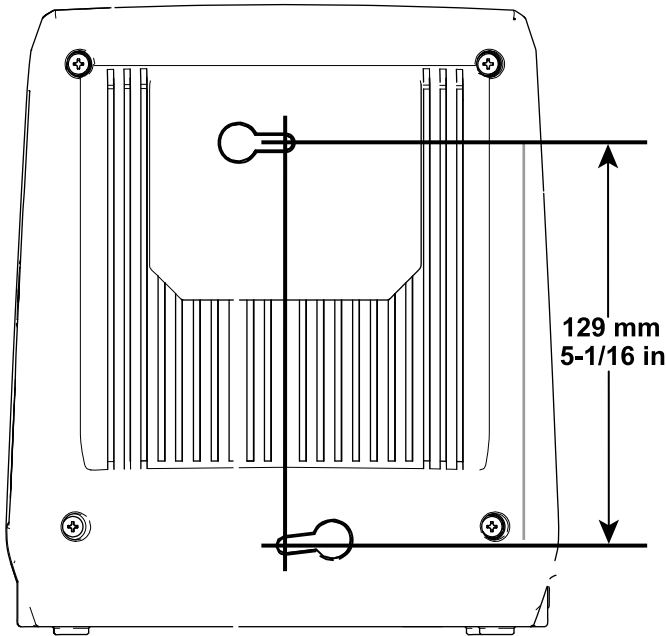


Figure 2

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2

Unfolding the Handle

Parts needed for this procedure:

1	Connector knob
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Procedure

1. Unfold the handle (A of [Figure 3](#)).
2. Install the connector knob to secure the handle (B of [Figure 3](#)).

Note: The nut that holds the handle connector knob in place is lightly secured in the connector housing with a piece of tape. Remove the tape after you install the connector knob.

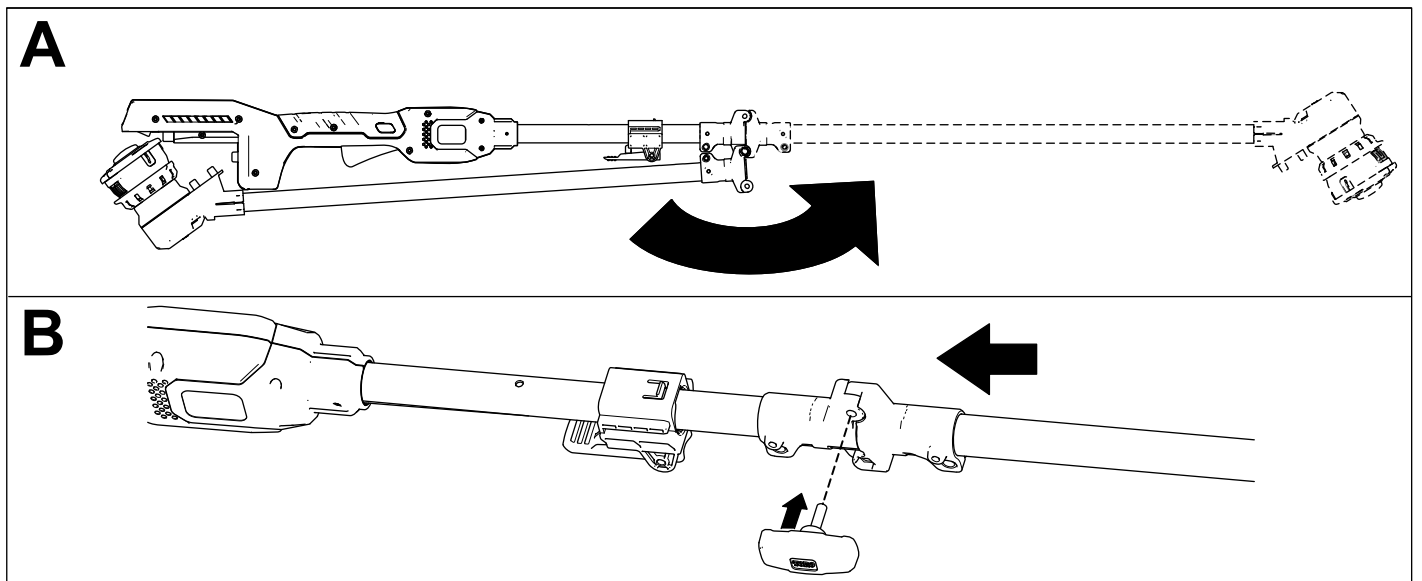


Figure 3

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3

Installing the Auxiliary Handle

Parts needed for this procedure:

1	Auxiliary handle
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Procedure

1. Line up the groove along the handle with the groove on the auxiliary handle and slide the auxiliary handle toward the trimmer handle (A of [Figure 4](#)).
2. Snap the handle securely into place (B of [Figure 4](#)).

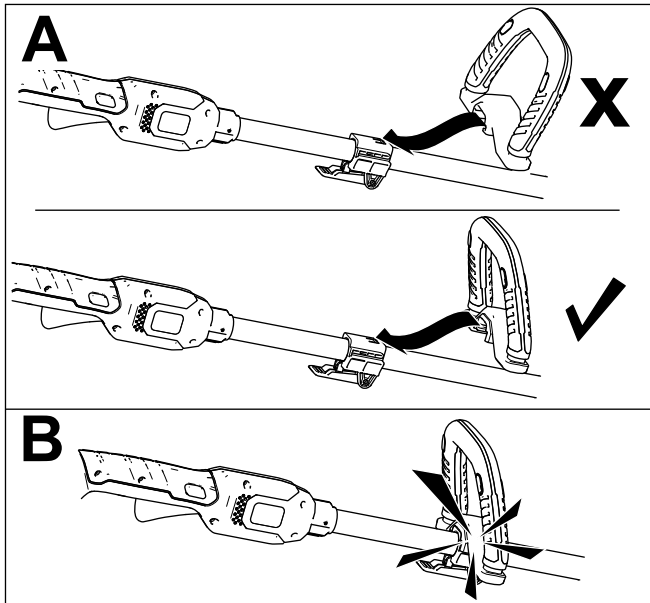


Figure 4

g195362

4

Installing the Guard

Parts needed for this procedure:

1	Guard
4	Phillips head screw

Procedure

Remove the 4 Phillips head screws that are taped to the guard and use them to install the guard ([Figure 5](#)).

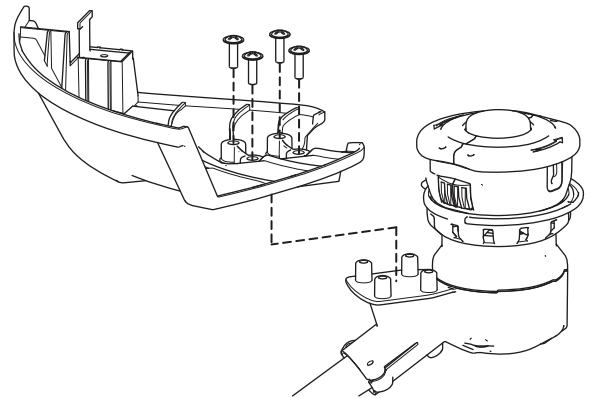


Figure 5

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Product Overview

Specifications

Appropriate Temperature Ranges

Charge the battery at	0°C (32°F) to 40°C (104°F)*
Use products at	-15°C (5°F) to 60°C (140°F)
Store products at	-15°C (5°F) to 60°C (140°F)
Unplug the charger if	Below 0°C (32°F) or above 40°C (104°F)

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

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

Operation

Starting the Trimmer

1. Make sure that the vents on the trimmer are clear of any dust and debris.

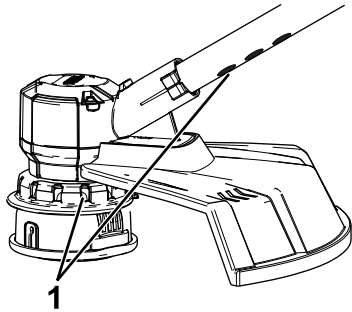


Figure 6

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1. Trimmer venting areas

2. Align the cavity in the battery pack with the tongue on the handle housing (Figure 7).
3. Push the battery pack into the handle until the battery pack locks into the latch (Figure 7).

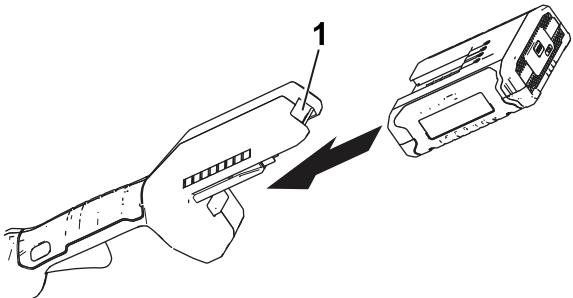


Figure 7

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1. Battery latch

4. To start the trimmer, press the lockout button, then squeeze the variable-speed trigger (Figure 8).

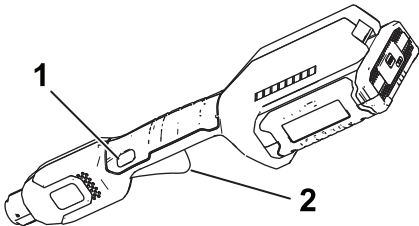


Figure 8

g189886

1. Lockout button
2. Variable-speed trigger

Shutting Off the Trimmer

To shut off the trimmer, release the trigger.

Whenever you are not using the trimmer or are transporting the trimmer to or from the work area, remove the battery pack.

Removing the Battery Pack from the Trimmer

Press the battery latch on the machine to release the battery pack and slide the battery pack out of the machine ([Figure 9](#)).

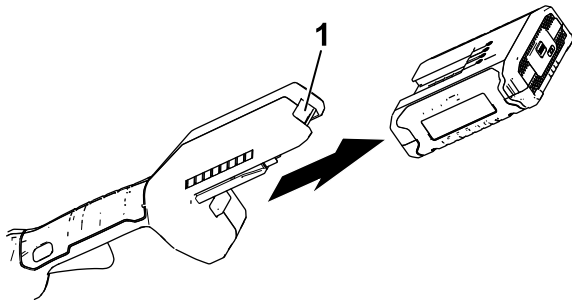


Figure 9

1. Battery latch

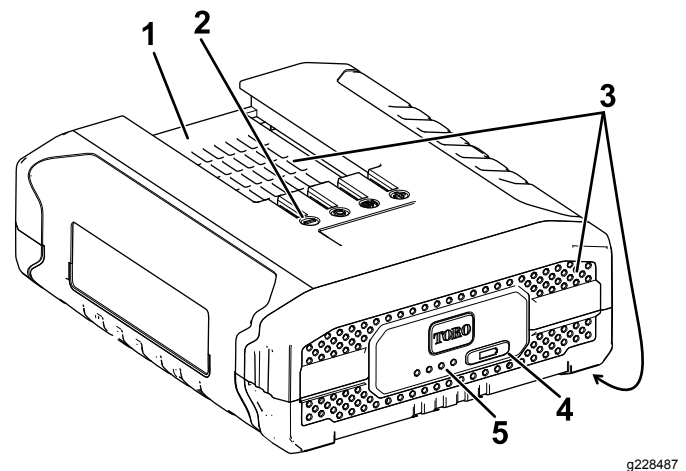


Figure 10

- | | |
|-------------------------------|------------------------------------|
| 1. Battery pack cavity | 4. Battery-charge-indicator button |
| 2. Battery pack terminals | 5. LED indicators (current charge) |
| 3. Battery pack venting areas | |

3. Make sure that the vents on the battery charger are clear of any dust and debris.
4. Slide the battery pack into the charger until it is fully seated ([Figure 11](#)).

Charging the Battery Pack

Important: Read all safety precautions.

Important: Charge the battery pack only in temperatures that are within the appropriate range; refer to [Specifications \(page 10\)](#).

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

1. Make sure that the vents on the battery pack are clear of any dust and debris.
2. Line up the cavity in the battery pack ([Figure 10](#)) with the tongue on the charger.

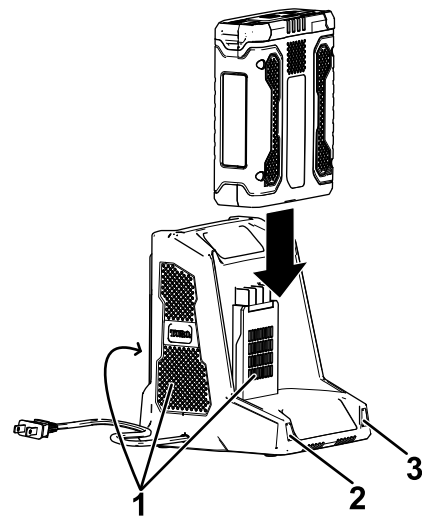


Figure 11

- | | |
|--------------------------|--------------------------|
| 1. Charger venting areas | 3. Right indicator light |
| 2. Left indicator light | |

5. To remove the battery pack, slide the battery backward out of the charger.
6. Refer to the following table to interpret the LED indicators on the battery charger.

Left Light	Right Light	Indicates:
Off	Red	Charger is on; no battery pack inserted
Red	Red	Battery pack is charging
Green	Red	Battery pack is charged
Orange	Red	Battery pack is too warm
Red Blinking	Red	Replace the battery pack

Advancing the Line Using the Bump Feed

1. Run the tool at full throttle.
2. Tap the bump button on the ground to advance the line. The line advances each time the bump button is tapped. Do not hold the bump button on the ground.

Note: The line trimming cut-off blade on the grass deflector cuts the line to the correct length.

Note: If the line is worn too short, you may not be able to advance the line by tapping it on the ground. If so, release the trigger and refer to [Advancing the Line Manually \(page 12\)](#).

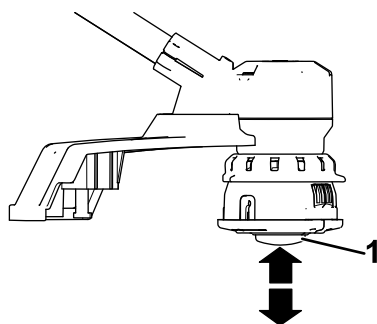


Figure 12

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1. Bump button

Advancing the Line Manually

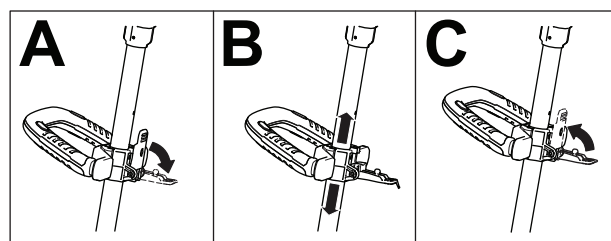
Remove the battery pack from the trimmer, then push the bump button at the base of the spool retainer while pulling on the trimmer line to manually advance the line.

Adjusting the Auxiliary Handle

1. Release the auxiliary-handle latch (A of [Figure 13](#)).
2. Slide the auxiliary handle up or down to your desired height (B of [Figure 13](#)).

Important: Do not remove the rubber bumper.

3. Close the auxiliary-handle latch to secure the auxiliary handle in place (C of [Figure 13](#)).



g189875

Figure 13

Trimming



Figure 14

g189990

Operating Tips

- Keep the trimmer tilted toward the area being cut; this is the best cutting area.
- The string trimmer cuts when you move it from left to right. This prevents the trimmer from throwing debris at you.
- Use the tip of the string to do the cutting; do not force the string head into uncut grass.
- Wire and picket fences can cause the string to wear rapidly and even break. Stone and brick walls, curbs, and wood can also cause the string to wear rapidly.
- Avoid trees and shrubs. The string can easily damage tree bark, wood moldings, siding, and fence posts.

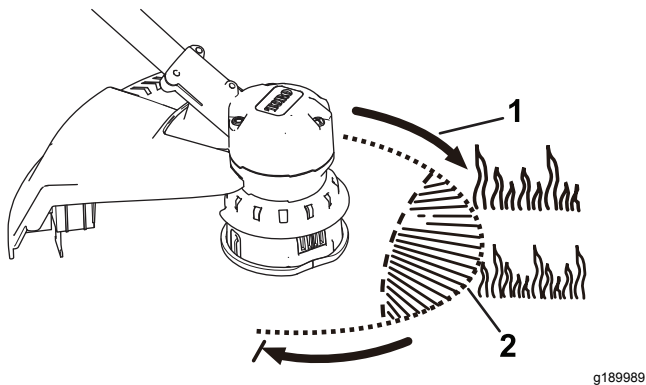


Figure 15

1. Direction of rotation

2. String path

Maintenance

After each use of the trimmer, complete the following:

1. Remove the battery from the trimmer.
2. Wipe the trimmer clean with a damp cloth. Do not hose the trimmer down or submerge it in water.

⚠ CAUTION

The line cutoff blade on the deflector is sharp and can cut you.

Do not use your hands to clean the deflector shield and blade.

3. Wipe or scrape clean the cutting head area any time there is an accumulation of debris.
4. Check and tighten all fasteners. If any part is damaged or lost, repair or replace it.
5. Brush debris away from air intake vents and exhaust on motor housing to prevent the motor from overheating.

Replacing the Spool

Use only 2 mm (0.08 inch) diameter monofilament string. Use the original manufacturer's replacement string for best performance (Toro Part No. 88546).

Important: Using a larger diameter string causes the motor to overheat and fail.

1. Remove the battery.
2. Push in the tab on the side of the spool retainer (Figure 16).

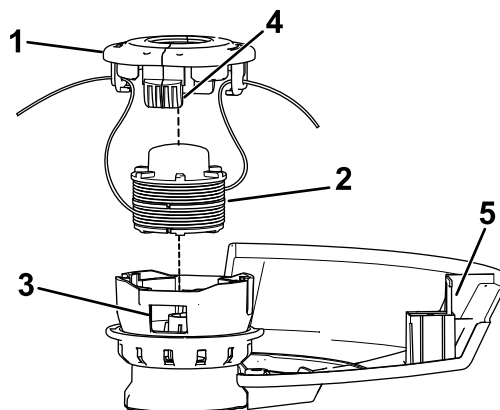


Figure 16

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- | | |
|-------------------|----------------------|
| 1. Spool retainer | 4. Tab |
| 2. Spool | 5. Line cutoff blade |
| 3. Slot | |

3. Pull the spool retainer up to remove it and remove the spool.
4. To install the new spool, make sure that the string is captured in 1 of the retaining slots on the new spool. Make sure the end of the string extends approximately 152 mm (6 inches).
5. Install the new spool so that the string aligns with the eyelet in the string head. Thread the string into the eyelet.
6. Pull the string extending from the string head so that the string releases from the slot in the spool.
7. Install the spool retainer by pressing the tabs into the slots and pushing down until the spool retainer clicks into place.

Replacing the String

1. Remove the battery.
2. Remove the spool; refer to [Replacing the Spool \(page 14\)](#).

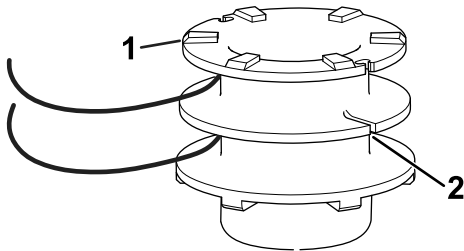


Figure 17

g203888

1. Spool
2. Anchor slot

Note: Remove any old string remaining on the spool.

3. Each side of the spool accepts approximately 3.6 m (12 ft) of string. **Use only 2 mm (0.08 inch) diameter monofilament string.**

Note: Do not use any other gauge or type of string, as this could damage the trimmer.

4. Insert the string into the anchor slot in the upper part of the spool ([Figure 17](#)). Wind the string onto the spool in the direction shown by the arrows on the spool.
5. Place the string in the slot on the upper spool flange, leaving about 152 mm (6 inches) extended beyond the slot.

Note: Do not overfill. After winding the string, there should be at least 6 mm (1/4 inch) between the wound string and the outside edge of the spool.

6. Replace the spool and the spool retainer; refer to [Replacing the Spool \(page 14\)](#).

Storage

Important: Store the tool, battery pack, and charger only in temperatures that are within the appropriate range; refer to [Specifications \(page 10\)](#).

Important: If you are storing the tool for a year or longer, remove the battery pack from the tool and charge the battery pack until 2 or 3 LED indicators turn blue on the battery. Do not store a fully charged or fully depleted battery. When you are ready to use the tool again, charge the battery pack until the left indicator light turns green on the charger or all 4 LED indicators turn blue 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.
- When not in use, store the tool, battery pack, and battery charger out of the reach of children.
- Keep the tool, 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 tool, battery pack, and battery charger in an enclosed clean, dry area.

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. Recycle or properly dispose of lithium-ion battery packs at a battery recycling facility.



For more information on recycling lithium-ion battery packs and to locate the battery recycling facility closest to you, visit www.Call2Recycle.org (US and Canada only). If you are located outside of the US and Canada, please contact your authorized Toro distributor.

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 tool does not start.	<ol style="list-style-type: none"> 1. The battery is not fully installed in the tool. 2. The battery pack is not charged. 3. The battery pack is damaged. 4. There is another electrical problem with the tool. 	<ol style="list-style-type: none"> 1. Remove and then replace the battery into the tool, making sure that it is fully installed and latched. 2. Remove the battery pack from the tool and charge it. 3. Replace the battery pack. 4. Contact an Authorized Service Dealer.
The tool does not reach full power.	<ol style="list-style-type: none"> 1. The battery pack charge capacity is too low. 2. The air vents are blocked. 	<ol style="list-style-type: none"> 1. Remove the battery pack from the tool and fully charge the battery pack. 2. Clean the air vents.
The tool is producing excessive vibration or noise.	<ol style="list-style-type: none"> 1. There is debris on the drum area on the trimmer. 2. The spool is not properly wound. 	<ol style="list-style-type: none"> 1. Clean any debris off of the drum area. 2. Advance the line using the bump feed and/or remove the line on the spool and wind the spool again.
The battery pack loses charge quickly.	<ol style="list-style-type: none"> 1. The battery pack is over or under the appropriate temperature range. 	<ol style="list-style-type: none"> 1. Move the battery pack to a place where it is dry and the temperature is between 0°C (32°F) and 40°C (104°F).
The battery charger is not working.	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 1. Unplug the battery charger and move it to a place where it is dry and the temperature is between 0°C (32°F) and 40°C (104°F). 2. Contact your licensed electrician to repair the outlet.
The battery pack shows only 3 LED indicators after only a few seconds of using a fully charged battery.	<ol style="list-style-type: none"> 1. This is a normal occurrence. 	<ol style="list-style-type: none"> 1. Stop the tool and press the battery-charge-indicator button or the remove the battery from the tool to display the actual battery charge.
All 4 LED indicators are blinking on the battery pack after you press the battery-charge-indicator button on the battery pack and the current charge displays (when the battery pack is not in use).	<ol style="list-style-type: none"> 1. The battery pack is over or under the appropriate temperature range. 	<ol style="list-style-type: none"> 1. Move the battery pack to a place where it is dry and the temperature is between 0°C (32°F) and 40°C (104°F).
All 4 LED indicators are blinking on the battery pack after releasing the trigger (when the battery pack is in use).	<ol style="list-style-type: none"> 1. The battery pack is over or under the appropriate temperature range. 	<ol style="list-style-type: none"> 1. Move the battery pack to a place where it is dry and the temperature is between 0°C (32°F) and 40°C (104°F).
2 LED indicators are blinking on the battery pack after you press the battery-charge-indicator button on the battery pack and the current charge displays (when the battery pack is not in use).	<ol style="list-style-type: none"> 1. There is a difference in voltage between cells in the battery pack. 	<ol style="list-style-type: none"> 1. Place the battery on the charger until it is fully charged.
2 LED indicators are blinking on the battery pack after releasing the trigger (when the battery pack is in use).	<ol style="list-style-type: none"> 1. There is a difference in voltage between cells in the battery pack. 	<ol style="list-style-type: none"> 1. Place the battery on the charger until it is fully charged.
1 LED indicator is blinking on the battery pack.	<ol style="list-style-type: none"> 1. The battery pack voltage is low. 	<ol style="list-style-type: none"> 1. Place the battery pack on the charger.

Problem	Possible Cause	Corrective Action
An audible tone sounds when advancing the line using the bump feed.	1. This is a normal occurrence.	1. Stop the tool by releasing the trigger and then start the tool.
It is difficult to remove the battery pack from the tool.	1. The battery pack/tool is new or there is corrosion in the battery terminals and/or the terminals on the tool.	1. Clean the terminals on the battery pack and the tool. Then apply dielectric grease to the battery terminals; do not use any other type of lubricant as it can damage the terminals.

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.