



12in Cordless Trimmer

Model No. 51487—Serial No. 313000001 and Up

Model No. 51487T—Serial No. 313000001 and Up

Operator's Manual

Model 51487T does not include a battery or a charger.



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

General Safety Rules

⚠ WARNING

CALIFORNIA Proposition 65 Warning

Battery posts, terminals, and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm.
Wash hands after handling.

WARNING: When using electric gardening appliances, basic safety precautions should always be followed to reduce the risk of fire, electric shock, and personal injury, including the following:

Read all instructions.

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

- Keep work area clean and well lit.** *Cluttered or dark areas invite accidents*
- Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** *Power tools create sparks which may ignite the dust or fumes.*
- Keep children and bystanders away while operating a power tool.** *Distractions can cause you to lose control.*

2. Electrical safety

- 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.*

- Avoid body contact with earthed or grounded surfaces.** *There is an increased risk of electric shock if your body is earthed or grounded.*
- 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.*
- Do not expose power tools to rain or wet conditions.** *Water entering a power tool will increase the risk of electric shock.*
- If operating a power tool in a damp location is unavoidable, use a supply protected by a residual current device (RCD) in AUS or a ground fault interrupt (GFI) in the USA.** *Use of an RCD or GFI reduces the risk of electric shock.*

3. Personal safety

- 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.*
- Use personal protective equipment. Always wear eye protection.** *Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.*
- 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.**
- 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.**
- Do not overreach. Keep proper footing and balance at all times.** *This enables better control of the power tool in unexpected situations.*
- 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.*

G. **Keep hands and feet away from the cutting area.**

H. Charging time will be increased if the battery is charged when the temperature is not between 41 to 104 degrees F (5 to 40 degrees C).

4. **Power tool use and care**

SAVE THESE INSTRUCTIONS

- 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 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. **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.** *Use of the power tool for operations different from those intended could result in a hazardous situation.*
- H. **Keep guards in place and in working order.**

5. **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.*

6. **Battery Safety**

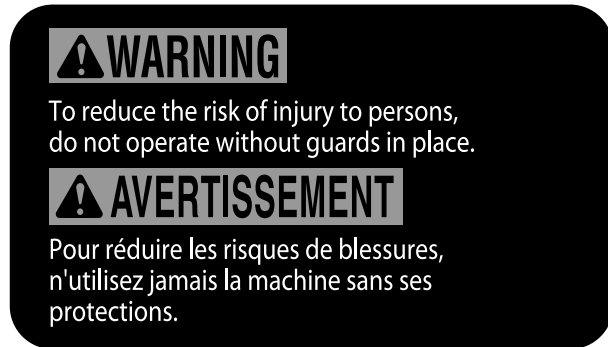
- A. Do not charge appliance in rain, or in wet locations.
- B. Do not use battery-operated appliance in the rain.
- C. Use only the following type and size battery: Toro battery model 88504 or 88506 and battery charger 88503.
- D. Remove or disconnect the battery before servicing, cleaning, or removing material from the gardening appliance.
- E. Do not dispose of the battery in a fire. The cell may explode. Check with local codes for possible special disposal instructions.
- F. Do not open or mutilate the battery. 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.

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 lost.

Symbol	Name	Designation/Explanation
DC	Direct current	Type of current
V	Volts	Voltage



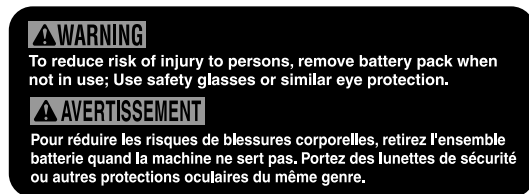
121-7615



121-7658

Model 51487T

1. Warning—read the *Operator's Manual*; do not operate in wet conditions; wear eye protection.



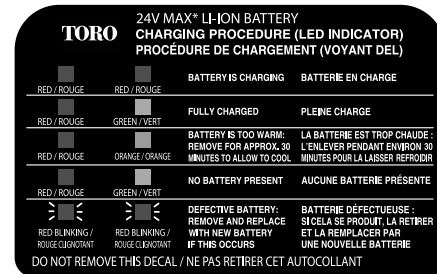
121-7614



125-3227

Model 51487

1. Warning—read the *Operator's Manual*; do not operate in wet conditions; wear eye protection.



125-3291

TORO®

LITHIUM-ION BATTERY CHARGER
CHARGEUR BATTERIE LITHIUM-ION
 Input: 100-240V AC 50/60Hz 0.71A
 Output: 24V MAX* DC 1.5A

*Maximum initial voltage without workload, as rated by battery manufacturer. Under workload, nominal voltage is 21.6V DC.

*Tension initiale maximale sans charge, telle qu'indiquée par le fabricant de la batterie. Mesurée sous charge, la tension nominale est de 21.6 V DC.

WARNING To reduce the risk of injury, user must read the instruction manual. Use only with 88504, 88505 & 88506 Lithium-ion Battery Pack. Caution - Risk of electric shock. Do not expose to liquid, vapor or rain.

AVERTISSEMENT Pour réduire le risque de blessures, l'utilisateur doit lire le manuel d'utilisation. Utiliser uniquement avec 88504, 88505 & 88506 Lithium-ion Battery Pack. Attention - Risque de décharge électrique. Ne pas exposer à des liquides, à la vapeur ou à la pluie.

Backfeed Protection / Protection contre le retour d'énergie

THE TORO COMPANY
 8111 Lyndale Avenue South
 Bloomington, MN 55420-1196 USA

Country of Origin: China / Pays d'origine: Chine
 Manufactured by CHANGZHOU GLOBE CO.,LTD
 Fabriqué par CHANGZHOU GLOBE CO.,LTD


Model:
Modèle:

88503 SL

Serial Number:
Numéro de série:

Date Code:
Code de date:

(BC)



121-7602

TORO® 24V MAX* DC 86.4Wh
 Li-Ion Battery / Batterie au lithium-ion

*Maximum initial voltage without workload, as rated by battery manufacturer. Under workload, nominal voltage is 21.6V DC.

*Tension initiale maximale sans charge, telle qu'indiquée par le fabricant de la batterie. Mesurée sous charge, la tension nominale est de 21.6 V DC.

WARNING To reduce the risk of injury, user must read the instruction manual. Wear eye protection. Do not short terminals. Do not throw into fire. Use only with Toro battery charger 88503. When charging make sure temperature is between 5° to 40°C (41° to 104°F). -10° to 45°C (14° to 113°F) for discharge. Risk of fire, explosion and burns. Do not disassemble, crush, expose to heat above 100°C (212°F), or incinerate. Keep battery out of reach of children.

AVERTISSEMENT Pour réduire le risque de blessures, l'utilisateur doit lire le manuel d'utilisation. Portez des lunettes de protection. Ne pas court-circuiter. Ne jetez pas au feu. Utilisez uniquement avec chargeur de batterie Toro 88503. Lorsque vous chargez la batterie, assurez-vous que la température est de 5 à 40 °C (41 à 104 °F). -10 à 45 °C (14 à 113 °F) pour la décharge. Risque d'incendie, d'explosion et des brûlures. Ne pas démonter, écraser, exposer à une température au-dessus de 100 °C (212 °F) ou incinérer. Conservez la batterie hors de portée des enfants.

MH46448 Country of Origin: China / Pays d'origine: Chine

Model:
Modèle:

88504

Serial Number:
Numéro de série:

Date Code:
Code de date:

(LW)

121-7606

TORO® 24V MAX* DC 43.2Wh
 Li-Ion Battery / Batterie au lithium-ion

*Maximum initial voltage without workload, as rated by battery manufacturer. Under workload, nominal voltage is 21.6V DC.

*Tension initiale maximale sans charge, telle qu'indiquée par le fabricant de la batterie. Mesurée sous charge, la tension nominale est de 21.6 V DC.

WARNING To reduce the risk of injury, user must read the instruction manual. Wear eye protection. Do not short terminals. Do not throw into fire. Use only with Toro battery charger 88503. When charging make sure temperature is between 5° to 40°C (41° to 104°F). -10° to 45°C (14° to 113°F) for discharge. Risk of fire, explosion and burns. Do not disassemble, crush, expose to heat above 100°C (212°F), or incinerate. Keep battery out of reach of children.

AVERTISSEMENT Pour réduire le risque de blessures, l'utilisateur doit lire le manuel d'utilisation. Portez des lunettes de protection. Ne pas court-circuiter. Ne jetez pas au feu. Utilisez uniquement avec chargeur de batterie Toro 88503. Lorsque vous chargez la batterie, assurez-vous que la température est de 5 à 40 °C (41 à 104 °F). -10 à 45 °C (14 à 113 °F) pour la décharge. Risque d'incendie, d'explosion et des brûlures. Ne pas démonter, écraser, exposer à une température au-dessus de 100 °C (212 °F) ou incinérer. Conservez la batterie hors de portée des enfants.

MH46448 Country of Origin: China / Pays d'origine: Chine

Model:
Modèle:

88506

Serial Number:
Numéro de série:

Date Code:
Code de date:

(LW)



125-3226

Setup

Loose Parts

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

Procedure	Description	Qty.	Use
1	Screw Wall-mounting bracket	2 1	Mount the wall-mounting bracket.
2	No parts required	–	
3	Auxiliary handle Latch Brace	1 1 1	Install the auxiliary handle.
4	Guard Phillips head screw	1 1	Mount the guard to the base of the trimmer.
5	Wire edge guard	1	Install the edge guard
6	No parts required	–	Adjust the trimmer height and base orientation

1

Mounting the Wall-Mounting Bracket

Parts needed for this procedure:

2	Screw
1	Wall-mounting bracket

Procedure

Note: The bracket should be mounted indoors and the trimmer should be out of the reach of children.

- Place the bracket against the wall and mark the 2 hole locations.
- Drill the pilot holes.
 - If mounting the bracket on wall board, plaster, or cement, drill 2 holes for the wall anchors (not supplied) at the marked locations.
 - If mounting the bracket on wood, drill 2 holes slightly smaller than the diameter of the screw threads at the marked locations.
- Install the screws (Figure 1).
 - If mounting the bracket on wall board, plaster, or cement, insert the 2 wall anchors (not supplied) into the holes then thread the screws into the wall anchors.
 - If installing the bracket on wood, drive the 2 screws into the wall.

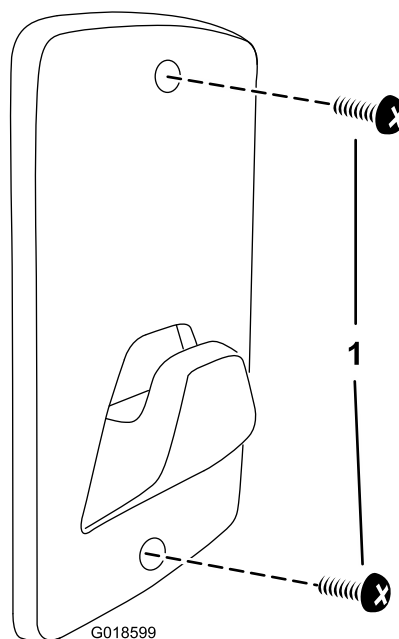


Figure 1

- Screw

2

Assembling the Trimmer

No Parts Required

Procedure

1. Remove the tape and the tube from the upper pole (Figure 2).

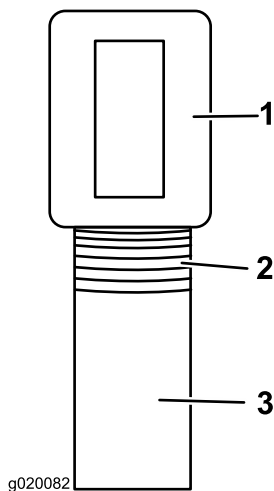


Figure 2

1. Tube
2. Tape
3. Lower pole

2. Slide the upper pole into the lower pole, lining up the tab in the upper pole with the receiving tabs in the lower pole, and secure it by tightening the screw.

Note: There is an audible click when the upper pole and lower pole are in the proper position.

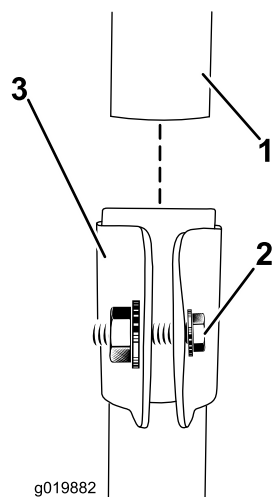


Figure 3

1. Upper pole
2. Screw
3. Shaft clamp

3. Cut the zip-tie and remove it from the trigger handle (Figure 4).

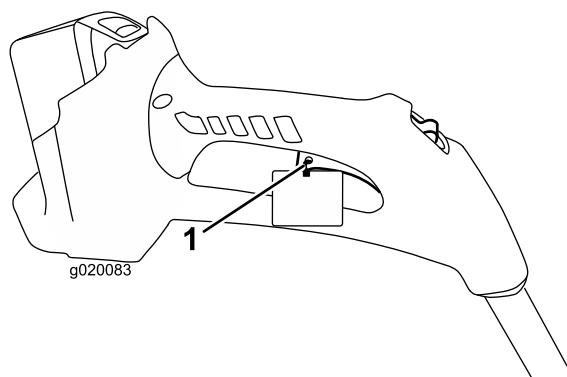


Figure 4

1. Zip-tie

3

Installing the Auxiliary Handle

Parts needed for this procedure:

1	Auxiliary handle
1	Latch
1	Brace

Procedure

1. Position the auxiliary handle on the shaft of the trimmer with the smooth surface facing the operator (Figure 5).

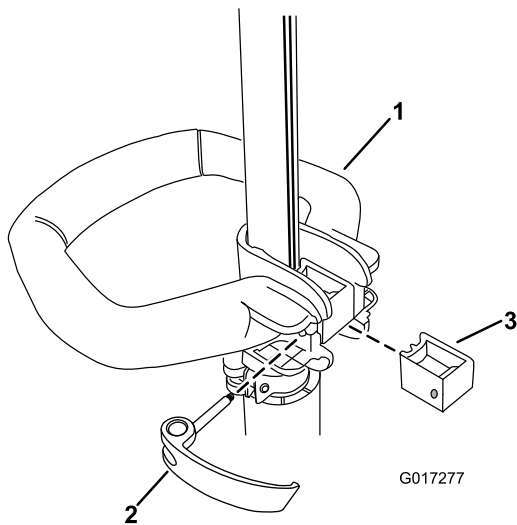


Figure 5

1. Auxiliary handle
2. Latch
3. Brace

2. Slide the brace into the auxiliary handle so that the brace rests in the groove along the shaft (Figure 5).
3. Slide the latch from the left through the handle and brace as shown and tighten the latch screw with a Phillips head screwdriver (Figure 5).

4

Installing the Guard

Parts needed for this procedure:

1	Guard
1	Phillips head screw

Procedure

1. Remove the Phillips head screw taped to the guard (Figure 6).
2. Slide the guard onto the trimmer base as shown in Figure 6.

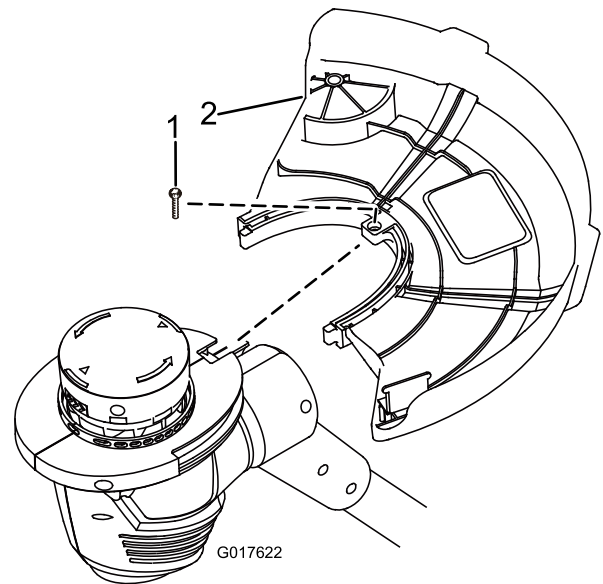


Figure 6

1. Phillips head screw
2. Guard
3. Secure the guard using a Phillips head screw.

5

Installing the Edge Guard

Parts needed for this procedure:

1	Wire edge guard
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Procedure

Insert the ends of the wire edge guard into the holes in the trimmer housing, as shown in Figure 7.

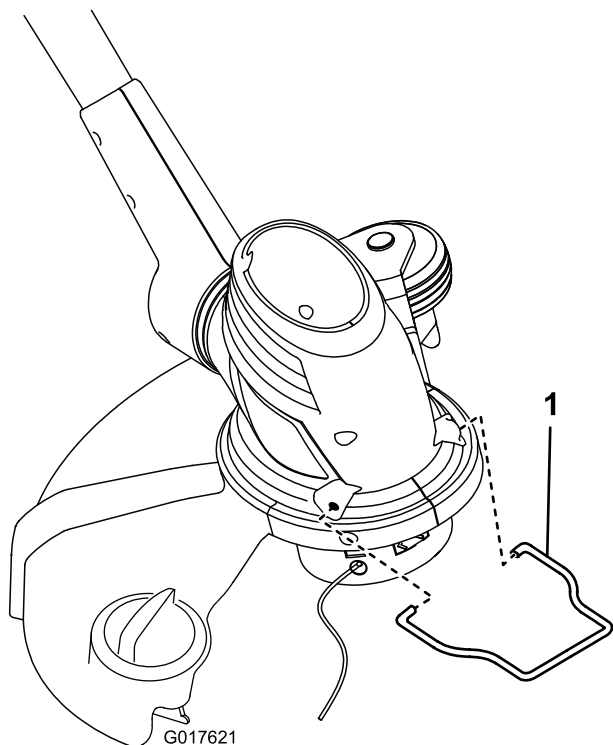


Figure 7

1. Wire edge guard

6

Adjusting the Handle Height and Base Orientation

No Parts Required

Procedure

- To adjust the auxiliary handle height, release the auxiliary handle latch, slide the auxiliary handle up or down to the desired height, then secure the auxiliary handle in place by closing the auxiliary latch (Figure 8).

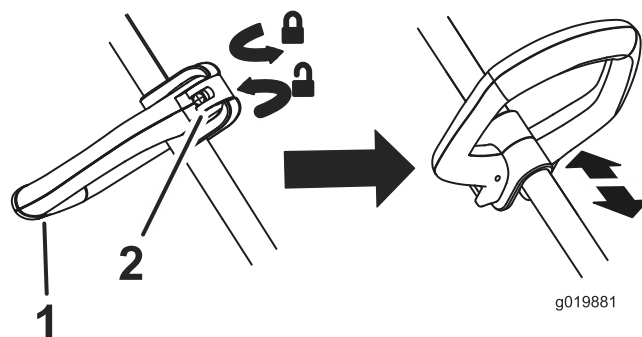


Figure 8

1. Auxiliary handle
2. Auxiliary handle latch

- To adjust the orientation of the base, press down on the rotator button located at the base of the shaft, then move the base to face the desired direction (Figure 9).

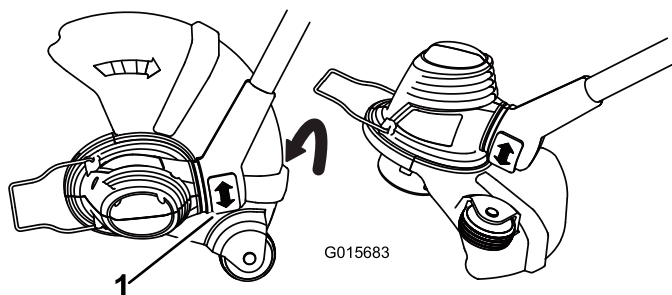


Figure 9

1. Rotator button

Operation

Important: The battery pack is not fully charged when it is purchased. Before using the trimmer for the first time, place the battery pack in the charger and charge until the LED indicators turn green. Make sure to read all safety precautions. With regular use, it will need shorter charging time. If storing for a prolonged period of time, remove the battery. When ready to use again, charge the battery pack until the LED indicators turn green.

Starting the Trimmer

1. Align the tongue of the battery pack with the cavity in the handle housing (Figure 10).

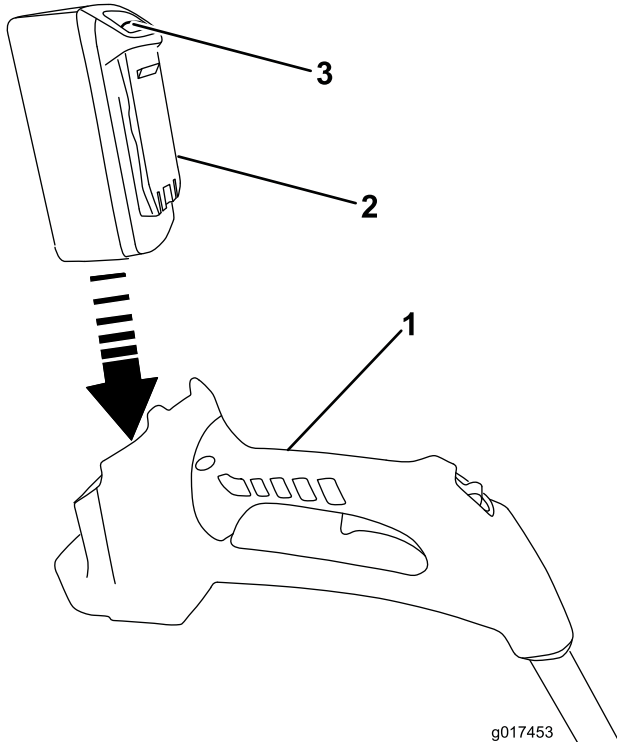


Figure 10

1. Trigger handle
2. Tongue
3. Latch

2. Grasp the trigger handle (Figure 10).
3. Push the battery pack into the handle until the latch locks into place.
4. To start the trimmer, slide the lock switch back to the On position, then squeeze the trigger (Figure 11).

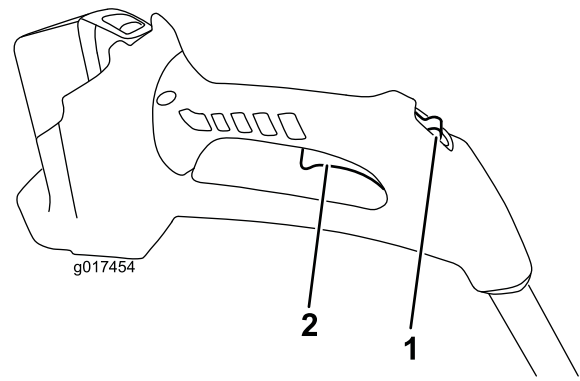


Figure 11

1. Lock switch
2. Trigger

Stopping the Trimmer

To stop the trimmer, release the trigger.

Charging the Battery Pack

Important: For best results, your battery tool should be charged in a location where the temperature is more than 41 degrees F (5 degrees C) but less than 104 degrees F (40 degrees C). To reduce the risk of serious personal injury, do not store outside or in vehicles. Charging time will be increased if not charged within this range.

1. Turn the battery upside down and line up the battery terminal with the slot in the charger (Figure 12 and Figure 13).

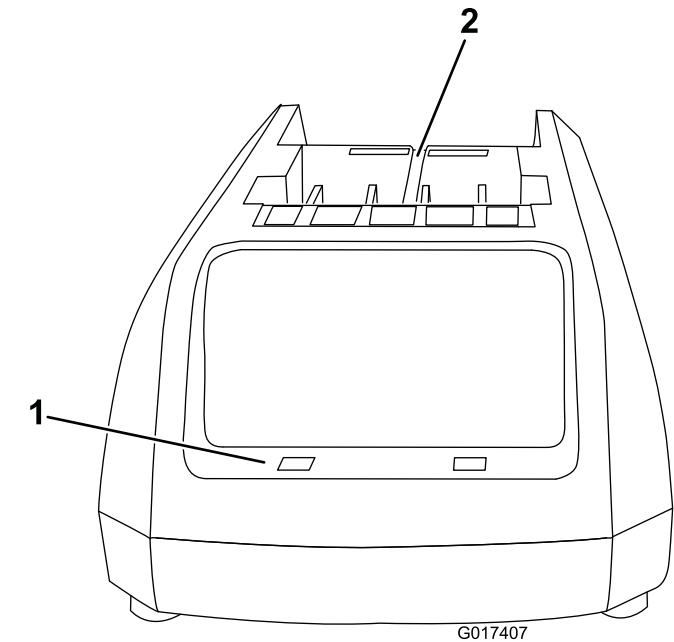


Figure 12

1. LED indicators
2. Insert battery here

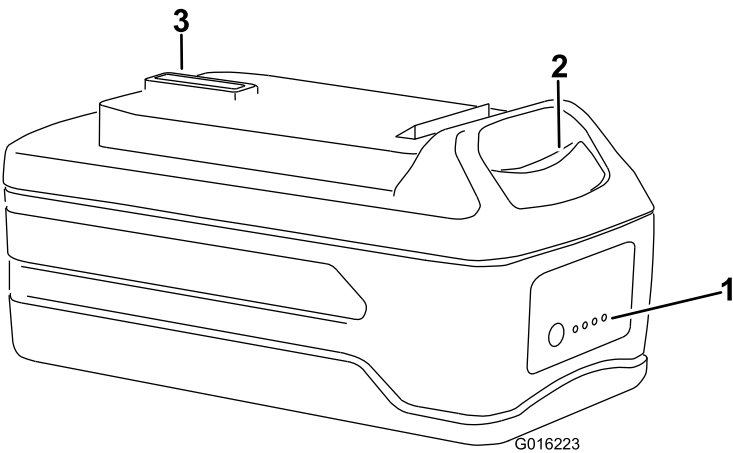


Figure 13

1. LED indicators (level of charge)
2. Release button
3. Battery terminal charge)

2. Slide the battery into the charger until it clicks into place.
3. To remove the battery, press down on the release button and slide the battery backwards out of the charger.

4. Refer to the table below to interpret the LED indicators on the battery charger.

LED COLOR		
Left	Right	Indicates:
Red	Red	Battery is charging
Red	Green	Fully charged
Red	Orange	Battery is too warm: Remove for approximately 30 minutes
Red	Green	No battery present
Red (blinking)	Red (blinking)	Defective battery

Advancing the Line

The trimmer is equipped with an auto-feed head. **The line will advance 6 mm (1/4 inch) each time you stop and start the trimmer.** When the line reaches the blade in the deflector, it will be cut off at that length.

1. With the trimmer running, release the switch trigger.
2. Wait two seconds, then press the switch trigger.
3. Resume trimming.

Advancing the Line Manually

Disconnect the string trimmer from the power supply, then push the red button at the base of the spool retainer while pulling on the trimmer line to manually advance the line.

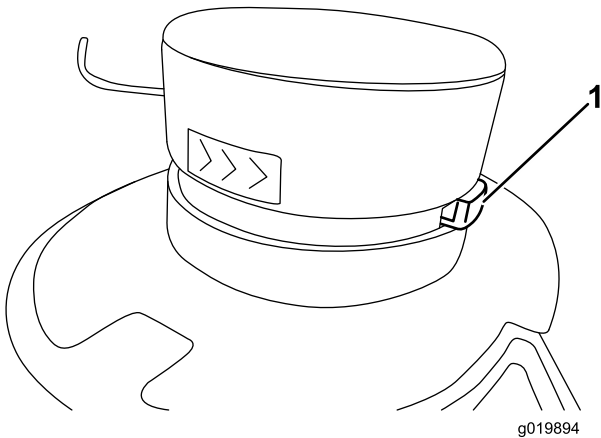


Figure 14

1. Button

Trimming



Figure 15

Push down and rotate the power saver knob (Figure 17) 180 degrees (1/2 turn) to shorten the length of the trimmer line. This reduces the power consumption of the trimmer and extends the runtime of the battery.

To resume operation in the regular mode, push down and rotate the power saver knob 180 degrees (1/2 turn).

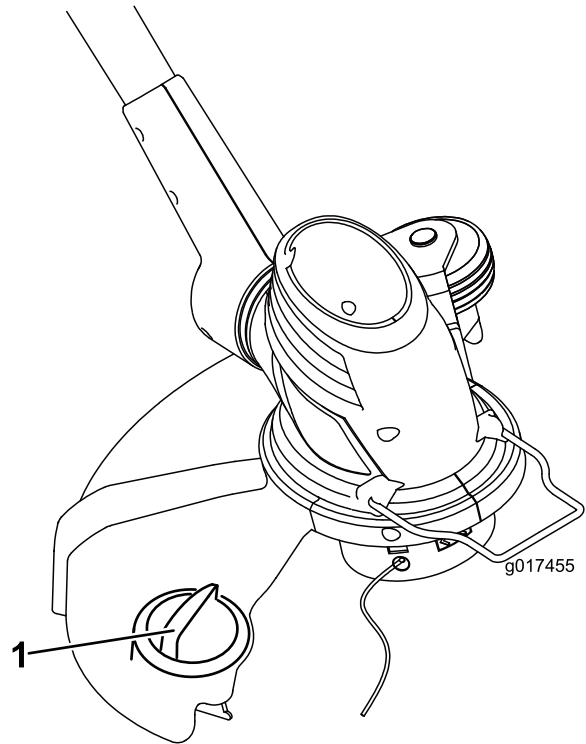


Figure 17

1. Power saver knob

Edging

To use the trimmer as edger, press the rotator button and rotate the head as shown in Figure 16.

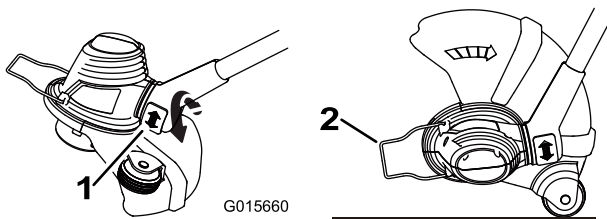


Figure 16

1. Rotator button
2. Edger guide

Operating Tips

- Keep the trimmer tilted toward the area being cut; this is the best cutting area.
- Tilt the trimmer so that the trimmer string is lowest on the right side.
- The string trimmer cuts best when passing the unit from left to right. This will also avoid throwing debris at the operator.
- Use the tip of the string to do the cutting; do not force string head into uncut grass.
- Wire and picket fences cause extra string wear, even breakage. Stone and brick walls, curbs, and wood may wear string rapidly.
- Avoid trees and shrubs. Tree bark, wood moldings, siding, and fence posts can easily be damaged by the strings.

Using the Power Saver Feature

Engaging the power saver feature will extend the run time of the battery by shortening the length of the trimmer line and decreasing the load on the motor.

If you are experiencing reduced battery runtime, it is recommended that you engage the power saver feature.

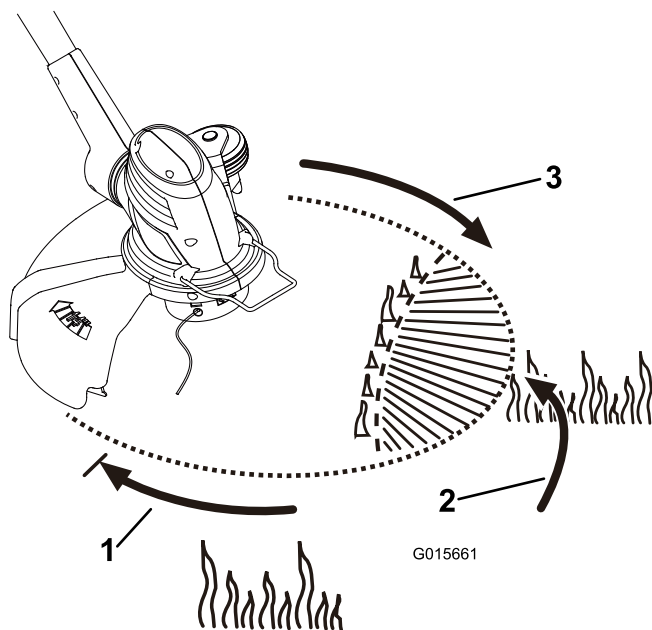


Figure 18

1. Direction of rotation
2. Ideal cutting range
3. String path

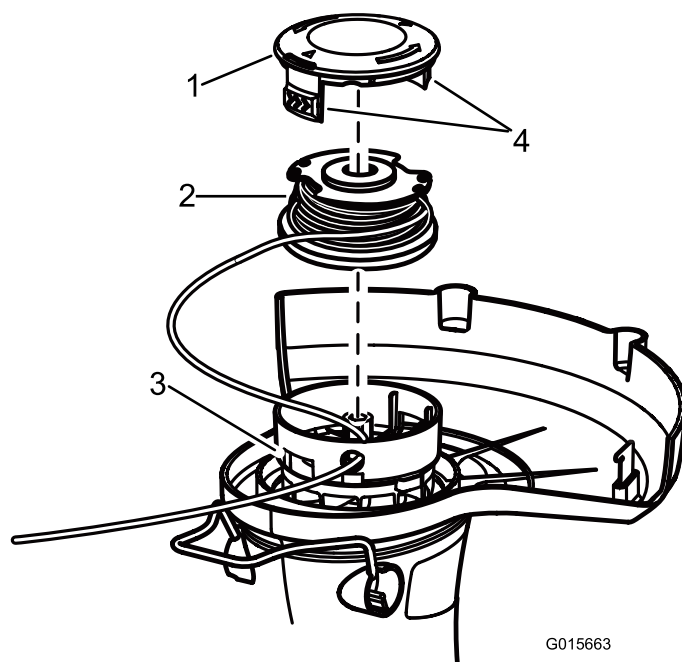


Figure 19

1. Spool retainer
2. Spool
3. Slots
4. Tabs

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 cut-off 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 on motor housing to prevent the motor from overheating.

Replacing the Spool

Use only .065 inch (1.6 mm) diameter monofilament string. Use original manufacturer's replacement string for best performance (Toro part number 88532 or 88524).

Important: Use of a larger diameter string will cause the motor to overheat and fail.

1. Remove the battery.
2. Push in the tabs on the side of the spool retainer (Figure 19).

3. Pull the spool retainer up to remove it and remove the spool.
4. To install the new spool, make sure the string is captured in one of the retaining slots on the new spool. Make sure the end of the string extends approximately 6 inches (152 mm).
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 the string releases from the slot in the spool.
7. Reinstall the spool retainer by depressing tabs into slots and pushing down until spool retainer clicks into place.

Replacing the String

1. Remove the battery.
2. Remove the spool. See Replacing the Spool (Figure 19).

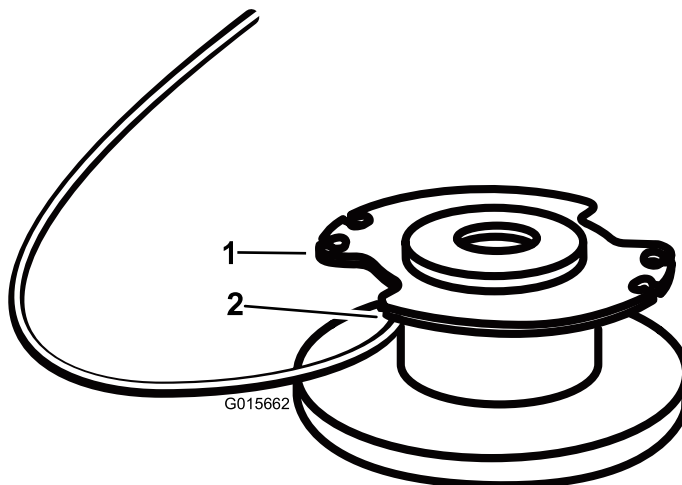


Figure 20

1. Slot in upper spool flange
2. Hole

Note: Remove any old string remaining on the spool.

3. The spool will accept up to 15 feet (4.5 m) of string. **Use only .065 inch (1.6 mm) 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 hole in the upper part of the spool (Figure 20). 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 6 inches (152 mm) extended beyond the slot.

Note: Do not overfill. After winding the string, there should be at least 1/4 inch (6 mm) 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 12).

Preparing the Battery Pack for Recycling

⚠ WARNING

Before recycling, cover the battery pack's terminals with heavy-duty adhesive tape. Do not attempt to destroy or disassemble the battery pack or remove any of its components. Lithium-ion batteries must be recycled or disposed of properly at the nearest battery recycling facility.

Service

Should this item need service, take the product to your Authorized Toro Service Dealer. Your Toro Dealer is specially trained to repair Toro products and will ensure that your Toro stays "All" Toro.

Storage

- Clean all foreign material from the product.
- Store it in a well-ventilated place that is inaccessible to children.
- Keep away from corrosive agents such as garden chemicals and de-icing salts.

Troubleshooting

Using the battery when it is hot can reduce the operating time. The battery will automatically stop working when it is overheated to prevent damage to it. Remove the battery from the charger and allow it to cool before placing it back into the trimmer.

Using the battery when there is moisture on the leads can cause the trimmer to malfunction. Allow the battery to dry or wipe it dry before placing it back into the trimmer.

Using the trimmer to cut thick grass in temperatures above 90 Fahrenheit (32 Celsius) may reduce the run time. Engage the power saving feature to help increase the operating time. Refer to Using the Power Saver Feature (page 11).

Notes:

Notes:

The Toro Promise - Electric Products

A Two-Year Full Warranty for Residential Use for the United States and Canada

The Toro Company and its affiliate, Toro Warranty Company, pursuant to an agreement between them, jointly warrant this product for two years against defects in material or workmanship when used for normal residential purposes.*

If you think your Toro Product contains a defect in materials or workmanship, if you have questions or problems, and before returning this product call toll free:

Trimmers:

1-800-237-2654 (US)
1-800-248-3258 (Canada)

Blowers:

1-888-367-6631 (US)
1-888-430-1687 (Canada)
1-800-574-3312 (Mexico)

Snowthrowers:

1-800-808-2963 (US)
1-800-808-3072 (Canada)

To receive a replacement or repair, at our option, return the complete unit to the seller. United States and Canada customers may return their product, with proof of purchase, to any Authorized Service Dealer. United States customers may also return their product, with proof of purchase, postage prepaid, to the Toro Service Center, 5500 SE Delaware, Ankeny, IA 50021.

This warranty covers product defects only. **Neither The Toro Company nor Toro Warranty Company is liable for indirect, incidental, or consequential damages in connection with the use of the Toro Products covered by this warranty, including any cost or expense of providing substitute equipment or service during reasonable periods of malfunction or non-use pending completion of repairs under this warranty. Some states do not allow exclusions of incidental or consequential damages, so the above exclusions may not apply to you.** This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Countries Other than the United States and Canada

Customers who have purchased Toro products exported from the United States or Canada should contact their Toro Distributor (Dealer) to obtain guarantee policies for your country, province, or state. If for any reason you are dissatisfied with your Distributor's service or have difficulty obtaining guarantee information, contact the Toro importer. If all other remedies fail, you may contact us at Toro Warranty Company.

Australian Consumer Law

Australian customers will find details relating to the Australian Consumer Law either inside the box or at your local Toro Dealer.

* Residential use means use of the product on the same lot as your home.

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