

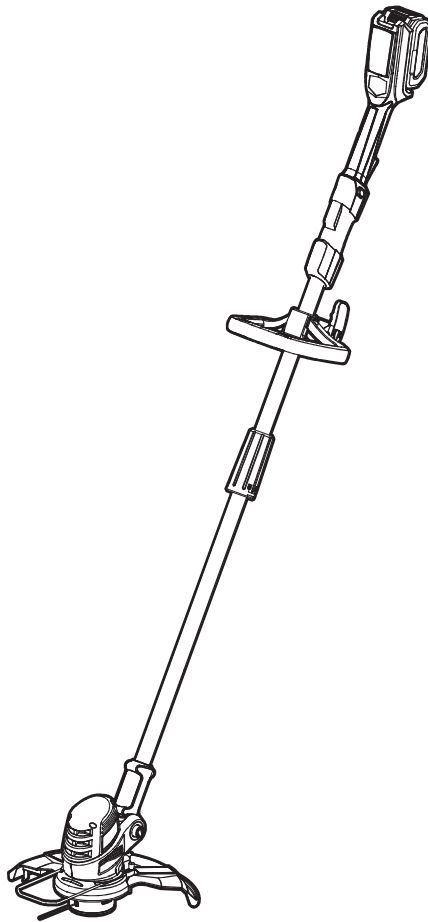
LawnMaster[®]

Operator's Manual

12" 24V MAX* Lithium-ion Cordless Grass Trimmer CLGT2412S

Save this manual for future reference

* Maximum initial battery workload voltage (measured without a workload) is 24 volts.
Nominal voltage is 21.6 volts.



Battery Model Number is 24LB2004-CN

Charger Model Number is 24LFC14-ETL



Read all safety rules and instructions carefully before operating this tool.

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SPECIFICATIONS

24V MAX* CORDLESS GRASS TRIMMER

Type	Cordless, Battery-powered
No-load Speed	8200 RPM
Line Diameter	0.065" (1.6 mm)
Cutting Width	12" (300 mm)
Unit Weight (With 2.0Ah Battery)	5.73 lbs (2.6 kg)

BATTERY PACK

Model Number	24LB2004-CN
Rated Voltage of Battery	24 V Max* D.C
Capacity of Battery	2.0 Ah
Battery Type	Lithium-ion

BATTERY CHARGER

Model Number	24LFC14-ETL
Charger Input	120 V ~ 60 Hz 70 W
Charger Output	24 V D.C. 2.5 A
Charging Time	60 minutes (For 24LB2004-CN)

* Maximum initial battery workload voltage (measured without a workload) is 24 volts.
Nominal voltage is 21.6 volts.

IMPORTANT SAFETY INSTRUCTIONS

WARNING

Read and understand all instructions before using this product.

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

- Avoid operating the tool in a dangerous environment. Do not use the tool in damp or wet locations.
 - Do not use in the rain.
 - Keep children away. All visitors should be kept at a distance from the work area.
 - Dress properly. Do not wear loose clothing or jewelry. They can be caught in moving parts. Use of rubber gloves and substantial footwear is recommended when working outdoors. Wear protective hair covering to contain long hair.
 - Use safety glasses. Always use face or dust mask if operation is dusty
 - Use the tool correctly. Do not use the tool for any job except that for which it is intended.
 - Do not force the tool. It will do the job better and with less likelihood of a risk of injury at the rate for which it was designed.
 - Do not overreach. Keep proper footing and balance at all times.
 - Stay alert. Watch what you are doing. Use common sense. Do not operate the tool when you are tired.
 - Disconnect the tool. Disconnect the battery from the trimmer when not in use; before servicing, when changing accessories such as cutting line, and so on.
 - Store idle tools indoors. When not in use, tools should be stored indoors in a dry, and high or locked-up place, out of reach of children.
 - Maintain the tool 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. Inspect the cord periodically, and if damaged, have it repaired by an authorized service center. Inspect extension cords periodically and replace if damaged. Keep handles dry, clean, and free from oil and grease.
 - Check for damaged parts. Before further use of the tool, 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.
 - To reduce risk of injury to persons, remove battery pack when not in use.
 - Keep guards in place and in working order.
 - Keep hands and feet away from cutting area.
 - Prevent unintentional starting. Ensure the switch is in the off position before inserting the battery pack, picking up or carrying the tool. Carrying the tool with your finger on the switch or energizing the tool that has the switch on, invites accidents.
 - Use the tool only with specifically designated battery packs. Use of any other battery packs may create a risk of injury and fire.
 - Do not use a battery pack or tool that is damaged or modified. Damaged or modified batteries may exhibit unpredictable behavior resulting in fire, explosion, or risk of injury.
 - Do not operate the tool 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.
-

IMPORTANT SAFETY INSTRUCTIONS

- Do not handle plug or tool with wet hands.
- Never allow children to operate the equipment. Never allow adults to operate the equipment without proper instruction.
- Do not operate in poor lighting.
- Do not use tool if the switch does not turn it on or off. Any tool that cannot be controlled with the switch is dangerous and must be repaired.
- Keep all parts of your body away from any moving parts and all hot surfaces of the unit.
- Do not put any object into openings. Do not use with any opening blocked; keep openings free of dust, lint, hair, and anything that may reduce air flow.
- Check the work area before each use. Remove all objects such as rocks, broken glass, nails, wire, or line which can be thrown or become entangled in the tool.
- For residential use only.

BATTERY PACK

- The battery pack is only compatible with 24LFC14-ETL, 24LFC15-ETL, 24LFC02-ETL or 24LSC01-ETL chargers.
- Recharge only with the charger specified by the manufacturer and listed in this manual. A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
- Do not charge battery in a damp or wet location. Following this rule will reduce the risk of electric shock.
- Do not place battery powered trimmers or their batteries near fire or heat. This will reduce the risk of explosion and possibly injury.
- 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.
- Do not dispose of battery packs in fire. They will explode or leak and cause injury. Liquid ejected from the battery may cause irritation or burns.
- Do not crush, drop, or damage the battery pack. Do not use a battery pack or charger that has been dropped or received a sharp blow. A damaged battery is subject to explosion. Properly dispose of a dropped or damaged battery immediately.
- Batteries can explode in the presence of a source of ignition, such as a pilot light. To reduce the risk of serious personal injury, never use any cordless product in the presence of open flame. An exploded battery can propel debris and chemicals. If exposed, flush with water immediately.
- Under extreme usage or temperature conditions, battery leakage may occur. If liquid comes in contact with your skin, wash immediately with soap and water. If liquid gets into your eyes, flush them with clean water for at least 10 minutes, then seek immediate medical attention. Following this rule will reduce the risk of serious personal injury.
- When the battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws, or other small metal objects, that can make a connection from one terminal to another. Shorting the battery terminals together may cause burns or a fire.
- Do not expose a battery pack or grass trimmer to fire or excessive temperature. Exposure to fire or temperature above 265°F (130°C) may cause an explosion.
- Do not modify or attempt to repair the grass trimmer or the battery pack (as applicable) except as indicated in the instructions for use and care.
- Follow all charging instructions and do not charge the battery pack or grass trimmer outside of the temperature range specified in the instructions. Charging improperly or at temperatures outside of the specified range may damage the battery and increase the risk of fire.

IMPORTANT SAFETY INSTRUCTIONS

- All tool services should be performed by a qualified repair person using only identical replacement parts. This will ensure that the safety of the product is maintained.

BATTERY CHARGER

- This charger is only compatible with 24LB4005-CN, 24LB4005-C, 24LB1304, 24LB2004, 24LB2004-CN, 24LB2605, or 24LB4005 lithium-ion batteries.
- To reduce the risk of injury, charge only the specified lithium-ion rechargeable batteries. Other types of batteries may burst, causing personal injury or damage.
- Keep cord and charger away from heat to prevent damage to housing or internal parts.
- Do not operate charger with a damaged cord or plug, which could cause shorting and electric shock. If damaged, immediately discontinue use. Replace the charger with the identical unit as listed in the Parts List of this manual.
- Do not use a charger that has been dropped or received a sharp blow.
- Do not disassemble charger. Take it to a qualified service center for check or replacement. Incorrect reassembly may result in a risk of electric shock or fire.
- Do not abuse the charger cord. Never use the cord for carrying, pulling, or unplugging.
- Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock. If the charger cord is damaged, replace the charger with an identical model as listed in this manual.
- A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
- Charge the battery at the normal charging temperature between 40°F (4°C) and 100°F (38°C).

FCC COMPLIANCE










- This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
 - This device may not cause harmful interference, and
 - This device must accept any interference received, including interference that may cause undesired operation.
- **NOTE:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.
- This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
 - Reorient or relocate the receiving antenna.
 - Increase the separation between the equipment and receiver.
 - Connect the equipment into an outlet on a circuit different from that of the receiver.
 - Consult the dealer or an experienced radio/ TV technician for help.

SAVE THESE INSTRUCTIONS



Refer to them frequently and use them to instruct others who may use this appliance. If you loan someone this appliance, loan them these instructions also.

SYMBOLS




Some of the following symbols may be used on this product. Please study them and learn their meaning. Proper interpretation of these symbols will allow you to operate the product better and safer.

SYMBOL	NAME	DESIGNATION/EXPLANATION
V	Volts	Voltage
A	Amperes	Current
Hz	Hertz	Frequency(cycles per second)
W	Watts	Power
hrs	Hours	Time
~	Alternating Current	Type of current
≡	Direct Current	Type or a characteristic of current.
.../min	Per Minute	Revolutions, strokes, surface speed, orbits, etc., per minute.
n_0	No Load Speed	Rotational speed, at no load.
	Lithium-ion Battery Recycling	Designates that this tool is in compliance with lithium-ion battery recycling program requirements.
	Safety Alert	Precautions that involve your safety.
	Read the Operator's Manual	To reduce the risk of injury, user must read and understand Operator's Manual before using this product.
	Eye and Hearing Protection	Always wear eye protection with side shields marked to comply with ANSI Z87.1, along with hearing protection.
	Cutting Width	Cutting diameter.
	Wet Conditions Alert	Do not expose to rain or use in damp locations.
	Keep Bystanders Away	Keep all bystanders at least 50 ft. away.
	Keep Away From Water	Do not dispose of battery packs in rivers or immerse in water.
	Keep Away From Fire	Do not dispose of battery packs in explode or leak and cause injury.

SYMBOLS

SYMBOL	NAME	DESIGNATION/EXPLANATION
	Heat Alert	Do not expose battery packs to heat in excess of 60°C (140°F).
	Recycle Symbol	This product uses lithium-ion batteries. Local, state or federal laws may prohibit disposal of batteries in ordinary trash. Consult your local waste authority for information regarding available recycling and/or disposal options.

The following signal words and meanings are intended to explain the levels of risk associated with this product.

SYMBOL	SIGNAL	MEANING
	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.
	NOTICE	(Without Safety Alert Symbol) Indicates a situation that may result in property damage.

SERVICE

Service requires extreme care and knowledge and should be performed only by a qualified service technician. When servicing, use only identical replacement parts.

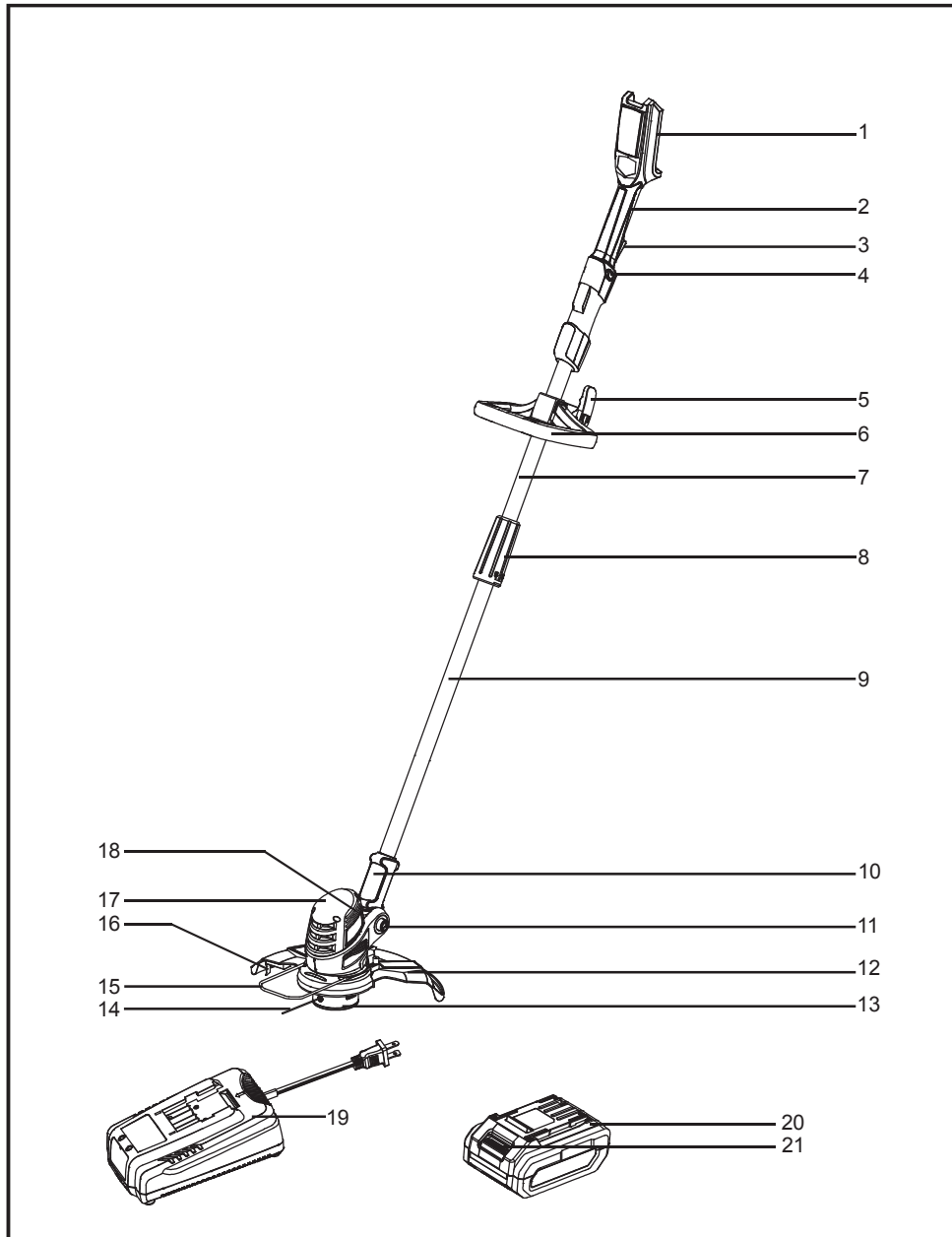
For troubleshooting or replacement, please call Customer Service for assistance (Toll free number 866-384-8432).

WARNING

To avoid serious personal injury, do not attempt to use this product until you read thoroughly and understand completely the Operator's Manual.

If you do not understand the warnings and instructions in the Operator's Manual, do not use this product. Call Customer Service for assistance (Toll free number 866-384-8432).

KNOW YOUR GRASS TRIMMER



KNOW YOUR GRASS TRIMMER

Components

- | | | |
|-------------------------------------|--------------------------|---------------------------------|
| 1. Battery Housing | 8. Locking Collar | 15. Flower Guard |
| 2. Main Handle | 9. Lower Shaft | 16. Trimming Line Cut-off Blade |
| 3. On/Off Switch | 10. Shaft Collar Support | 17. Motor Housing |
| 4. Lock-off Switch | 11. Pivot Button | 18. Air Vents |
| 5. Auxiliary Handle
Locking Knob | 12. Debris Guard | 19. Battery Charger |
| 6. Auxiliary Handle | 13. Trimmer Head | 20. Battery Pack |
| 7. Upper Shaft | 14. Trimming Line | 21. Battery Release Button |

KNOW YOUR PRODUCT

The safe use of this product requires an understanding of the information on the product and in this Operator's Manual as well as a knowledge of the project you are attempting. Before use of this product, familiarize yourself with all operating features and safety rules.

ASSEMBLY

UNPACKING

This product requires assembly.

- Carefully remove the product and any accessories from the box. Make sure that all items listed in the packing list are included.
- Inspect the product carefully to make sure no breakage or damage occurred during shipping.
- Do not discard the packing material until you have carefully inspected and satisfactorily operated the product.
- If any parts are damaged or missing, please call Customer Service (Toll free number 866-384-8432).

YOU WILL NEED (ITEMS NOT SUPPLIED)

- Phillips Head Screwdriver
- Suitable Personal Protective Equipment

PACKING LIST

- (1) Main Handle
- (1) Lower Shaft (with trimmer head and line spool installed)
- (1) Debris Guard
- (1) Flower Guard
- (1) Auxiliary Handle (with auxiliary handle locking knob installed)
- (1) Operator's Manual
- (1) 24V 2.0Ah Lithium-ion Battery Pack
- (1) 24V 2.5A Battery Charger

WARNING

Before assembly, make sure that the grass trimmer is switched off and the battery is removed. If any parts are damaged or missing, do not operate this product until the parts are replaced. Failure to heed this warning so could result in serious personal injury.

Do not attempt to modify this product or create accessories not recommended for use with this product.

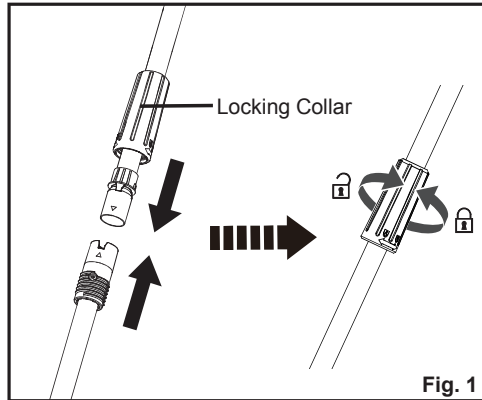
Any such alteration or modification is misuse and could result in a hazardous condition leading to possible serious personal injury. Always remove battery pack from your tool when you are assembling parts, making adjustments, cleaning, or when not in use. Removing battery pack will prevent accidental starting that could cause serious personal injury.

Never operate without the proper safety devices in place and working. Never operate with damaged safety devices. Failure to heed this warning can result in serious personal injury.

ASSEMBLY

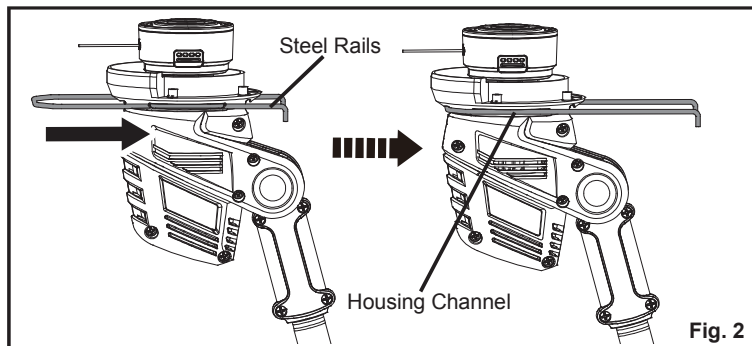
CONNECTING THE MAIN HANDLE AND SHAFT

1. Align the upper shaft with the lower shaft. The triangle-shaped recesses must face each other.
2. Insert the upper shaft into the lower shaft and fasten both shafts with the locking collar (Fig. 1).



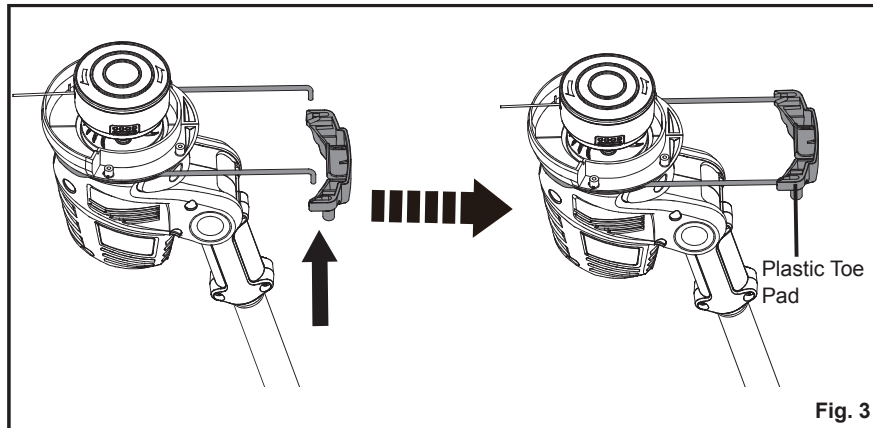
ATTACHING THE FLOWER GUARD

1. Align and seat the steel flower guard rails into the 2 housing channels on either side of the motor housing (Fig. 2).
2. Once aligned and with the steel rails of the flower guard seated into housing channels, slide the guard forward until the closed end of the guard is against the motor housing (Fig. 2).



ASSEMBLY

3. With the two steel rails exposed, align the two holes in the plastic toe pad with the end of the steel rails of the guard and snap into place securely (Fig. 3).

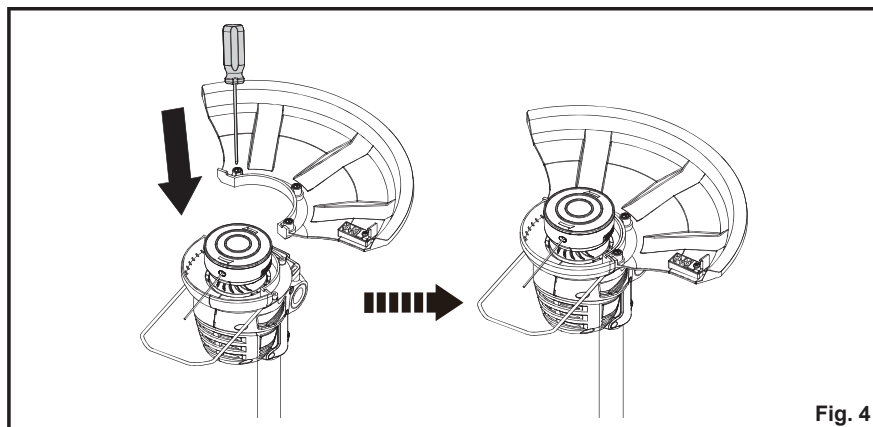


FITTING THE DEBRIS GUARD

1. Align the debris guard with the trimmer head.
2. Secure the debris guard by tightening the 3 mounting screws with a screwdriver (Fig. 4).

WARNING

The trimming line cut-off blade on the debris guard is sharp. When fitting the guard avoid contact with the blade. Failure to avoid contact can result in serious personal injury.

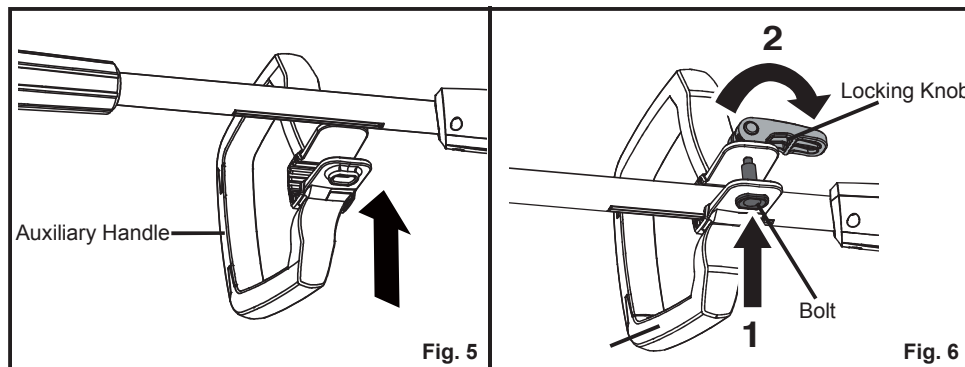


ASSEMBLY

ATTACHING THE AUXILIARY HANDLE

1. Loosen the auxiliary handle locking knob and remove it from the auxiliary handle.
2. Align the auxiliary handle with the upper shaft (Fig. 5).
3. Adjust the auxiliary handle to the most comfortable position.
4. Insert the bolt in the hole on the auxiliary handle, tighten the locking knob and clamp down to secure the handle (Fig. 6).

NOTE: Auxiliary handle can be mounted from either side of the shaft to accommodate personal preference of use.



ASSEMBLY

INSTALLING / REMOVING THE BATTERY PACK

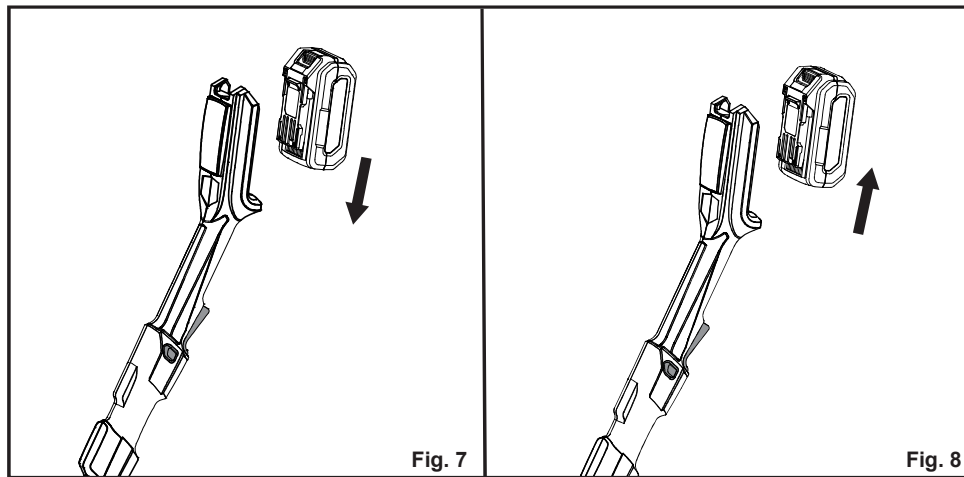
To install the battery pack:

1. Make sure the battery is fully charged.
2. Align the battery pack with the battery slot on the underside of the main handle, and then insert the battery pack into the handle (Fig. 7).
3. Push the battery pack until you hear a “click”.

NOTE: Make sure that battery pack firmly snaps into place and is secured to the trimmer handle before starting operation.

To remove the battery pack:

1. Stop the grass trimmer.
2. Press the release button on the battery pack. Grasp the trimmer firmly and pull the battery pack out of the main handle (Fig. 8).



BATTERY PACK AND CHARGER


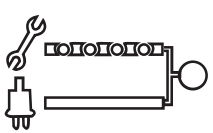

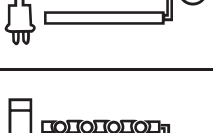

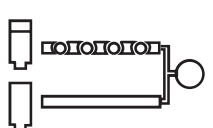


BATTERY CHARGING

1. Use only with 24V LawnMaster® battery chargers. The battery charger supplied is specifically designed for the lithium-ion battery used in this tool.
2. Check the power voltage! Battery chargers operate on 120V.
3. The battery is charged between 40°F (4°C) and 100°F (38°C). This ensures an optimum battery service life.
4. Protect the battery from heat, from continuous exposure to sun, and keep away from radiation or other heat sources. Do not leave the battery in the tool in direct sunlight over long periods.
5. The battery is supplied partially charged. To ensure full capacity of the battery, charge the battery before using the tool for the first time. The lithium-ion battery can be charged at any time without reducing its service life. Interrupting the charging procedure does not affect the battery.

LED CHARGER STATUS

1. If the battery is not inserted into the charger, a **continuous red LED light** indicates that the charger is plugged into a power supply socket and is now ready to begin charging.
2. Charging: A **flashing green LED** on the charger indicates that the battery is charging normally.
3. Charged: **Continuous green LED** on the charger indicates that the battery is ready for use.

The indicator lights on the charger show the charger status:

SYMBOL	INDICATOR LIGHTS	STATUS
		Red, blinking
		Red, continuous
		Green, blinking
		Green, continuous





4. The intelligent charger ensures maximum battery life, because it measures the existing charge level of the battery and then charges with the required current and voltage. Charge battery fully before storage.
5. **Technical Issue: A flashing red LED** light on the charger indicates that battery pack has a charging problem or might be defective.
 - a) One possible condition is the battery temperature is not within the charging temperature range of 40°F (4°C) and 100°F (38°C). As soon as the permitted temperature is reached, the battery charger will automatically switch to charging.

BATTERY PACK AND CHARGER

- b) If the temperature range is correct and flashing red LED light continues, then remove and reinstall the battery pack. If the LED status repeats a second time, try to charge another identical battery. If the battery charges normally, dispose of the defective battery pack (see Environmental Safe Battery Disposal section).
- c) If the flashing red light continues after installing the second battery (ensure the battery temperature is normal), the charger may be defective. Replace with a new one.
6. After continuous or repeated charging cycles without interruption, the charger may warm up. This is normal and does not indicate a technical defect of the battery charger.

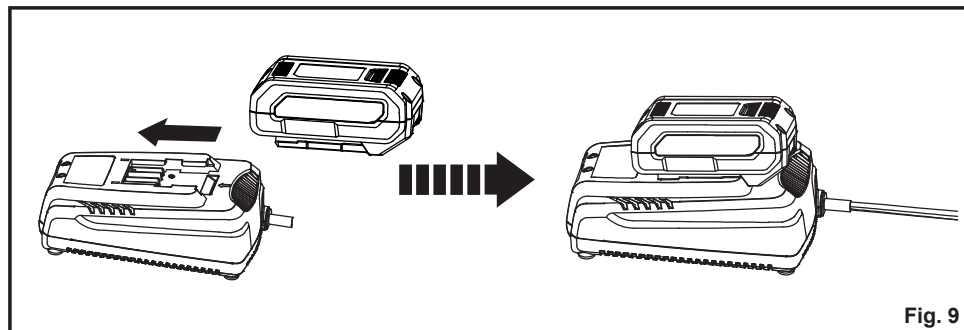
BATTERY LED PANEL

1. Check the battery pack capacity by pressing the LED button.
2. When the LED button is pressed, the number of illuminated lights indicates the state of battery pack capacity. See Table below.

NUMBER of LIGHTED LEDs	CAPACITY
	0%-25%
	25%-50%
	50%-75%
	75%-100%

LED Button green yellow red

CHARGING THE BATTERY PACK



BATTERY PACK AND CHARGER

WARNING

If any part of the charger is missing or damaged, do not operate it! Replace the charger with a new one. Failure to heed this warning could result in possible serious injury.

Check the voltage! The voltage must comply with the information on the rating label.

1. Align the slot of the battery pack with the rail on the charger. Slide the battery onto the rail until the battery pack secures into place (Fig. 9).
2. Connect the charger to the power supply.
3. Allow sufficient charging time (see Specifications), and then disconnect the charger from the power supply.
4. Press the release button on the battery pack and remove it from the charger.

NOTE: It is normal for the battery pack and the charger to become warm (but not hot) during charging process. If the battery does not charge properly, check to make sure the electrical outlet is operational. Always charge the battery before storage!

OPERATION

INTENDED USE

This trimmer is intended for cutting weed, grass or similar soft vegetation in areas that are hard to reach, e.g. under bushes, on slopes and edges. It must not be used to work on unusual thick, dry or wet grass, e.g. pasture grass, or to shred leaves.

This product is intended for private domestic use only, not for any commercial trade use. It must not be used for any purposes other than those described.

SWITCHING ON/OFF

WARNING

Risk of injury! Do not operate the product without the debris guard.

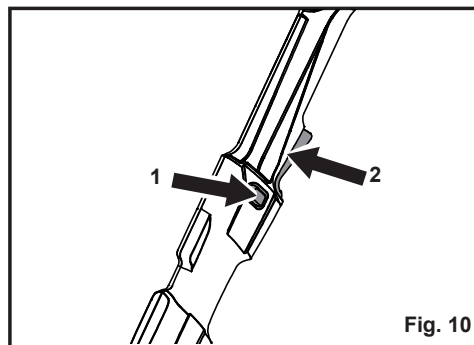
To operate the product, wear suitable clothing, eye and ear protection.

Prior to every use, check that the product is operative. Do not block the on/off switch or the lock-off switch. The switches must reliably turn off the motor when you release them. Do not operate the product if one of the switches is damaged.

1. Make sure that the battery pack is installed properly.
 2. To start the trimmer, squeeze the lock-off switch and press the on/off switch (Fig. 10). Once started release the lock-off switch.
 3. Release the on/off switch to switch the trimmer off.
-

WARNING

After turning off the trimmer, the trimmer head will continue to rotate for some time. Allow the trimmer head to come to a complete standstill. Keep hands and feet well away. Risk of injury!



OPERATION

ADVANCING THE TRIMMING LINE

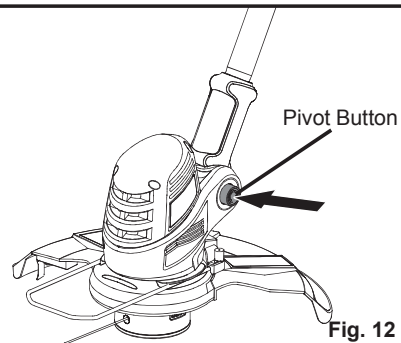
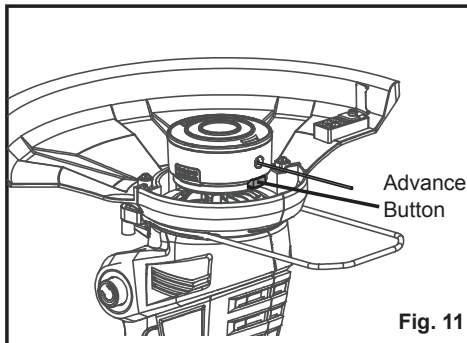
The trimmer features a fully automatic single line system. The line will automatically elongate every time you turn on the trimmer.

NOTE: Bumping the head to try to advance the line will damage the trimmer and void the warranty.

1. With the trimmer running but NOT trimming, release the on/off switch.
2. Wait 2 seconds and press the on/off switch. The line will extend with each stop and start of the on/off switch until the line reaches the length of the trimming line cut-off blade.
3. Resume trimming.

Adjusting the line length manually:

1. Switch off the trimmer and remove the battery.
2. Push the advance button located on the trimmer head while pulling on trimming line to manually advance the line. The line will advance and stop. Push the button again to advance more line (Fig. 11).
3. Push the button and pull the line out as many times as it takes to reach the line cut-off blade.



When no line end is visible:

Replace the line spool (see Spool Replacement instructions in the Maintenance section).

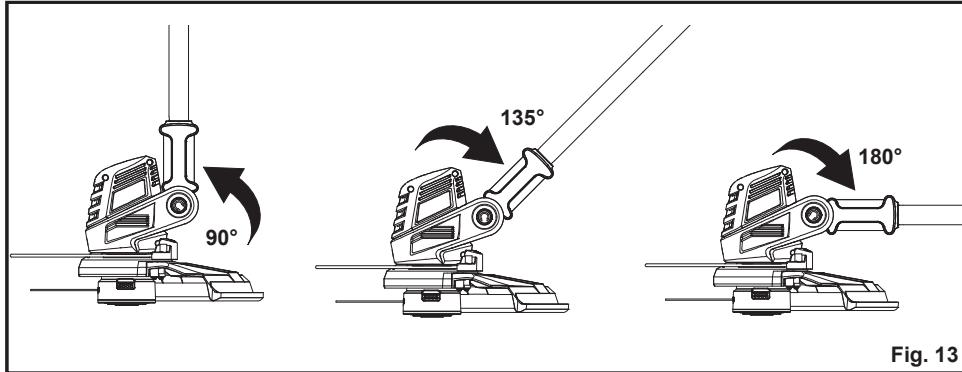
DEBRIS GUARD

1. The debris guard protects the operator against thrown objects during operation.
2. The debris guard is equipped with a trimming line cut-off blade that cuts excess trimming line.

PIVOTING HEAD

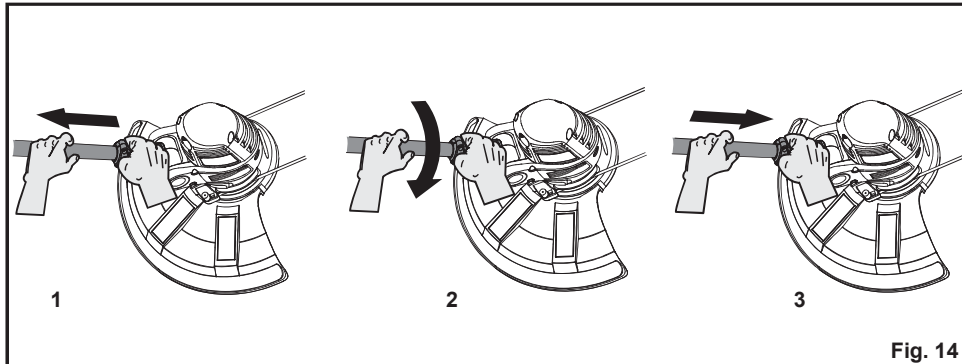
1. To pivot the head, push the pivot button and adjust the shaft to any of the 7 positions (Fig. 12).
 2. Adjust the angle of the trimmer head according to the intended operation (Fig. 13).
- NOTE:** Adjust to 135° when trimming grass on flat ground. Adjust to 90° or 180° when trimming near edges and walls.
3. Release the button, make sure the shaft locks into place.

OPERATION



EDGING

The trimmer head can be rotated on the lower shaft into a position for edging sidewalks and walkways. Pull the lower shaft outwards and away from the trimmer head as shown. Rotate the lower shaft 180° and push shaft back toward the trimmer head (Fig. 14). Shaft will lock into place for the edging position.



WARNING

Always ensure that the trimmer head engages into place! Only adjust to indicated angles. Never adjust to any other intermediate position!

OPERATION

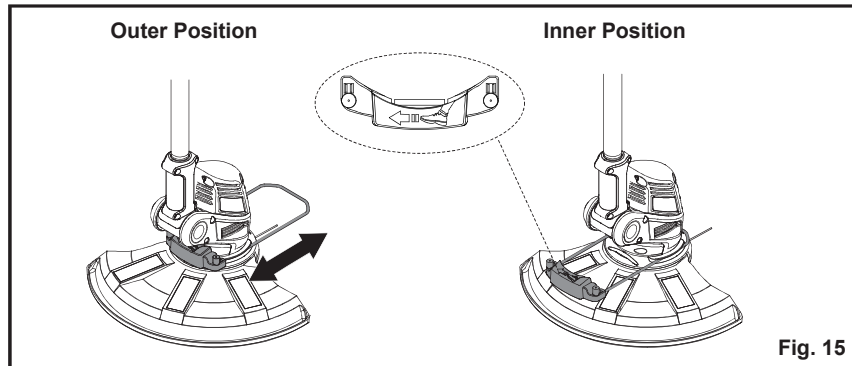
FLOWER GUARD

WARNING

Only adjust the flower guard position after the product is switched off and the battery is removed from the trimmer. Ensure that the trimmer head is at a complete stop.

Use the flower guard to keep a safe distance to plants like flowers, trees or other objects that could be hit by the cutting device.

1. Push the flower guard to its outer position for operation until it snaps into place (Fig. 15).
2. Push the flower guard to its inner position after operation and when storing (Fig. 15).



GENERAL OPERATION

1. Check the product, its battery pack, and charger as well as accessories for damage before each use. Do not use the product if it is damaged or shows wear.
2. Double check that accessories and the spool are properly fixed.
3. Always hold the product firmly by its handles. Keep the handles dry to ensure safe support. Ensure you keep your balance with your feet apart.
4. Ensure that the air vents are always unobstructed and clear. Clean them if necessary with a soft brush. Blocked air vents may lead to overheating and damage the product.
5. Switch the product off immediately if someone enters the work area. Always let the product come to a complete stop before putting it down.
6. Do not overwork yourself. Take regular breaks to ensure you can concentrate on the work and have full control over the product.

OPERATION

TRIMMING

WARNING

Always hold the trimmer away from the body keeping clearance between the body and the trimmer. Any contact with the trimmer head while operating can result in serious personal injury.

1. Do not cut wet grass because it tends to stick to the trimmer head and guard, preventing proper discharge of grass clippings, and could cause you to slip and fall.
2. Wait until the product has come to a standstill before placing it down.
3. Regularly remove clippings and dirt around the trimmer head with the battery removed from the product.
4. Pay attention when operating the tool close to trees and bushes. The cutting device can damage softer bark and fence posts.
5. Work rhythmically. Stand firmly with your feet apart. Cut from right to left so clippings are thrown away from the trimmer head (Fig. 16).

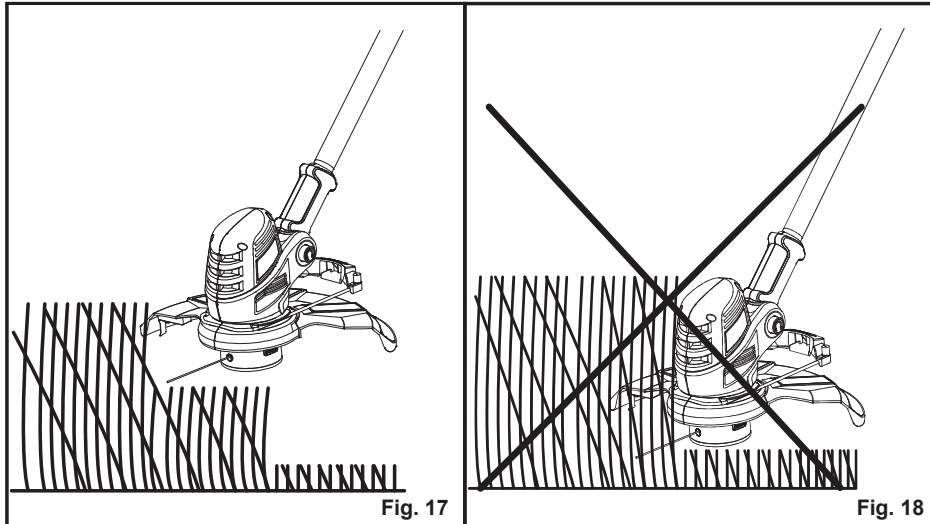


WARNING

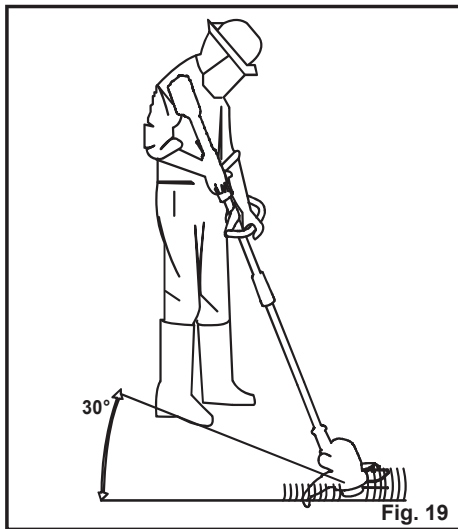
Ensure the protective tape on the trimming line cut-off blade is removed before use and the debris guard is always fitted to the trimmer.

OPERATION

6. Do not move the product too fast as this will result in ineffective cutting and possible damage.
7. Cut in layers if the grass is tall, starting with the top layers and then the bottom (Fig. 17 & 18).



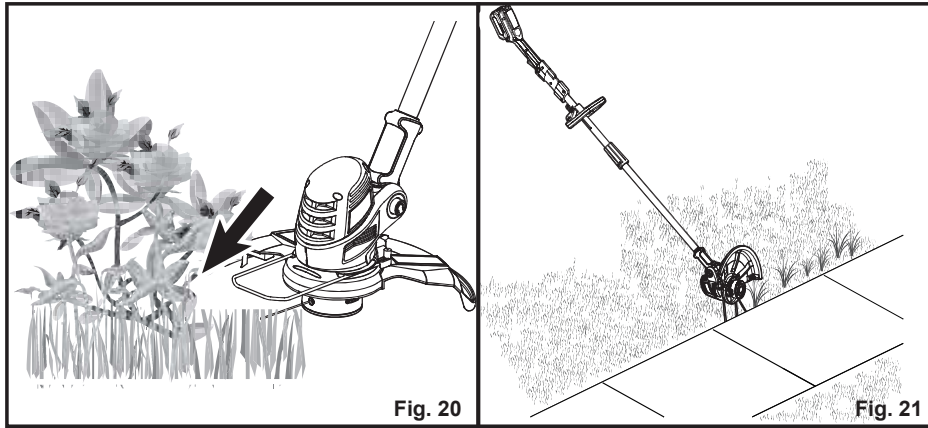
8. Keep the trimmer head at an angle of about 30° to the ground when trimming. Avoid pressing it against the ground as this can ruin the lawn and damage the product (Fig. 19).



NOTE: Let the cutting device do the work. Let it work at its own pace, never force it into the area to be cut.

OPERATION

9. Carefully manoeuvre the tool around objects, such as trees and bushes, ensuring it does not come into contact with them. Use the flower guard to ensure that the cutting device does not come into contact with fragile plants (Fig. 20).
10. Adjust the trimmer head angle when trimming on edges and near walls.
11. Use the flower guard to avoid bringing the cutting device into contact with hard objects such as walls and curbs (Fig. 21).



AFTER USE

1. Switch the product off, remove the battery pack and let it cool down.
2. Check, clean and store the product as described below.

MAINTENANCE

WARNING

In order to avoid personal injury and the risk of fire and electric shock, remove the battery pack before adjusting, inspecting, or cleaning the grass trimmer.

CLEANING

1. Clean the product with a dry cloth. Use a brush for areas that hard to reach.
2. In particular clean the air vents after every use with a cloth and brush. Keep the air vents free of obstructions, sawdust, and wood chips. Do not spray, wash, or immerse the air vents in water.
3. Remove stubborn dust with high pressure air (max. 3 bar).

NOTE: Do not use chemical, alkaline, abrasive or other aggressive detergents or disinfectants to clean this product as they might be harmful to its surfaces.

4. Check for worn or damaged parts. Replace worn parts as necessary or contact an authorized service center for repair before using the product again.
5. Keep the safety guard clean and free of debris. Remove trimmings. Replace the guard with a one of the same type when it's worn or shows damage

SPOOL REPLACEMENT (FIG. 22)

WARNING

Always remove the battery prior to replacing the line spool. Failure to do so, can cause serious injury! The trimming line cut-off blade, located on the debris guard is sharp. Take extra care and wear protective gloves.

1. Use only 0.065 in. (1.6 mm) diameter round monofilament line. Use original manufacturer's replacement line for best performance.
2. Remove the battery pack.
3. Push in tabs on both sides of the spool cover.
4. Pull the spool cover up to remove.
5. Remove the spool.

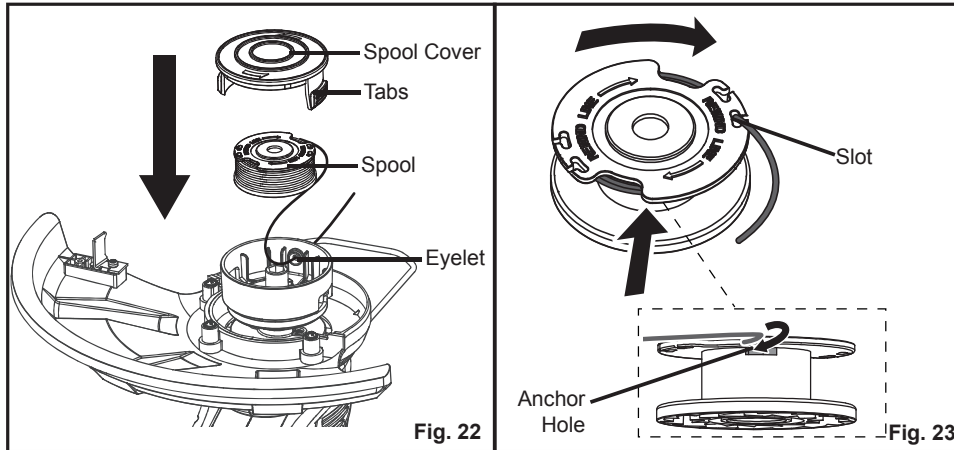
NOTE: Always clean the spool cover and spool base before reassembling the trimmer head.

6. Check the spool cover, spool, and spool base for wear. If necessary, replace the worn parts.
 7. To install the new spool, make sure the line is captured in the spool slot on the new spool. Make sure the end of the line is extended approximately 6 in. (152 mm) beyond the slot (Fig. 23).
 8. Install the new spool so that the line and slot are aligned with the eyelet in the line head. Thread the line into the eyelet.
 9. Pull the line extending from the eyelet so the line releases from the slot in the spool.
-

MAINTENANCE

10. Reinstall the spool cover by depressing tabs into slot in the trimmer head and pushing down until spool cover clicks into place.

NOTE: Use LawnMaster® spool model # 221043107 for replacement.



LINE REPLACEMENT

1. Remove the battery pack.
2. Remove the spool from the trimmer head. Remove any old line remaining on the spool.
NOTE: Use only 0.065 in. (1.6 mm) diameter round monofilament line.
3. Cut a piece of line approximately 9 ft. (2.7 m) long.
4. Insert the line into one of the two anchor holes found on the upper part of the spool. Wind the line around the spool clockwise as shown by the arrows on the spool (Fig. 23).
5. Place line in the slot on upper spool flange, leaving about 6 in. (152 mm) extended beyond the slot. Do not overfill. After winding the line, there should be at least 1/4 in. (6 mm) between the wound line and the outside edge of the spool.
6. Check the spool cover, spool, and spool base for wear. If necessary, replace the worn parts.
7. Install the spool in the trimmer head and replace the spool cover as described in SPOOL REPLACEMENT section.

STORAGE

1. Remove the battery pack from the trimmer before storing.
2. Clean the product as described above.
3. Store the product and its accessories in a dry, frost-free place.
4. Always store the product in a place that is inaccessible to children. The ideal storage temperature is between 50°F (10°C) and 86°F (30°C).
5. We recommend using the original package for storage or covering the product with a suitable cloth to protect it against dust.

MAINTENANCE

TRANSPORTATION

1. Switch the product off and remove the battery pack before transporting it anywhere.
2. Attach transportation guards, if applicable.
3. Always carry the product by its handles.
4. Protect the product from any heavy impact or strong vibrations which may occur during transportation in vehicles.
5. Secure the product to prevent it from slipping or falling over.

BATTERY PACK MAINTENANCE

1. Fully charge the battery before placing in storage.
2. Recharge the battery pack whenever there is a noticeable reduction in the performance. Do not allow the battery pack to become completely discharged.
3. Do not recharge a battery pack that is already fully charged. Overcharging shortens battery life.
4. Once the battery pack is fully charged, remove the battery from the charger and disconnect charger from the outlet.
5. Do not store the battery pack on the tool or on the charger.
6. If the battery pack is hot, allow it to cool down before recharging.

CHARGER MAINTENANCE

1. Keep the charger clean and clear of debris. Do not allow foreign material into the recessed cavity or on the contacts. Wipe with a dry cloth. Do not use solvents, water, or place in wet conditions.
2. Always unplug the charger when the battery pack is not installed on the charger.
3. Do not store the charger in excessive heat. Do not use in direct sunlight.
4. Disconnect the charger from the AC power outlet when not in use and once battery has reached a full charge.

ENVIRONMENTAL SAFE BATTERY DISPOSAL



The following toxic and corrosive materials are in the batteries used in this battery pack:
lithium-ion, a toxic material.

WARNING

All toxic materials must be disposed of in a specific manner to prevent contamination of the environment. Before disposing of damaged or worn-out lithium-ion battery packs, contact your local waste disposal agency, or the local Environment Protection Agency for information and specific instructions.

WARNING

If the battery pack cracks or breaks, with or without leaks, do not recharge it and do not use it. Dispose of it and replace with a new battery pack.

DO NOT ATTEMPT TO REPAIR IT!

To avoid injury and risk of fire, explosion, or electric shock, and to avoid damage to the environment:

- Cover the battery terminals with heavy-duty adhesive tape.
- **DO NOT** attempt to remove or destroy any of the battery pack components.
- **DO NOT** attempt to open the battery pack.
- If a leak develops, the released electrolytes are corrosive and toxic. **DO NOT** get the solution in eyes or on skin, and do not swallow it.
- **DO NOT** place damaged or defective batteries in your regular household trash.
- **DO NOT** incinerate.
- **DO NOT** place batteries where they will become part of any waste landfill or municipal solid waste stream.
- Take batteries to a certified recycling or disposal center.

TROUBLESHOOTING

Suspected malfunctions are often due to causes that the user can fix themselves. Therefore, check the product using this section. In most cases the problem can be solved quickly.

WARNING

Only perform the steps described within 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	SOLUTION
Product will not start when the on/off switch is depressed.	Lock-off switch is not pressed.	Press the lock-off switch and press the on/off switch to switch the trimmer on.
	The battery is not secure.	To secure the battery pack, make sure the battery pack clicks into place.
	The battery is not charged.	Remove and charge the battery pack.
	The battery is defective.	Replace with a new, charged battery.
	Defective trigger mechanism.	Call Customer Service for assistance (Toll free number 866-384-8432).
Product does not reach full power.	Battery pack capacity is too low.	Charge the battery pack.
	Air vents are blocked.	Remove the battery and clean the air vents.
Unsatisfactory result.	The trimming line is worn or damaged.	Replace the trimming line. Refer to the LINE REPLACEMENT section.
	Insufficient trimming line.	Install more line. Refer to the LINE REPLACEMENT section.
	The trimming line is not guided out of the spool.	Remove the spool and thread the trimming line to the outside through the eyelet. Check the line end is not held in the slot on spool. Replace the spool if necessary.
	Trimming line breaks too often.	Soak the line in hot water for several hours to rehydrate it.

TROUBLESHOOTING

Unsatisfactory result.	The trimmer head is dirty.	Clean the trimmer head.
	Battery pack capacity is too low.	Charge the battery pack.
	Cutting tall grass at ground level.	Cut the tall grass from the top down to prevent wrapping.
Line will not advance.	The trimming line is worn, depleted, or tangled.	Install more trimming line. Refer to the LINE REPLACEMENT section.
	The spool is worn.	Replace the spool. Refer to the SPOOL REPLACEMENT section.
No charging procedure possible.	The battery contacts are contaminated.	Clean the battery contacts (e.g. by inserting and removing the battery several times) or replace the battery.
	Mains plug of battery charger is not plugged in properly.	Insert mains plug fully into the socket outlet.
	Socket outlet, mains cable or battery charger are defective.	Check the mains voltage and if necessary, contact the Customer Service for assistance (Toll free number 866-384-8432).
	The battery has a fault.	Contact the Customer Service for assistance (Toll free number 866-384-8432).
Charger 2Hz red LED light flashing.	Battery pack is too hot.	Allow the battery pack to reach normal temperature. Charging will begin when battery pack returns to normal temperature.

For more status of the indicator lights on battery & charger, refer to page 16 & 17.

LAWNMASTER® WARRANTY

We take pride in producing a high quality, durable product. This Lawnmaster® product carries a limited two (2) year warranty against defects in workmanship and materials from date of purchase under normal household use. If product is to be used for commercial, industrial or rental use, a 30 day limited warranty will apply. **Batteries carry a one-year warranty against defects in workmanship and materials.** Batteries must be charged in accordance with the operator's manual directions and regulations in order to be valid. Warranty does not apply to defects due to direct or indirect abuse, negligence, misuse, accidents, repairs or alterations and lack of maintenance. Please keep your receipt/packing list as proof of purchase. This warranty gives you specific legal rights, and you may have other rights, which vary from state to state. For product service call Customer Service at 1-866-384-8432.

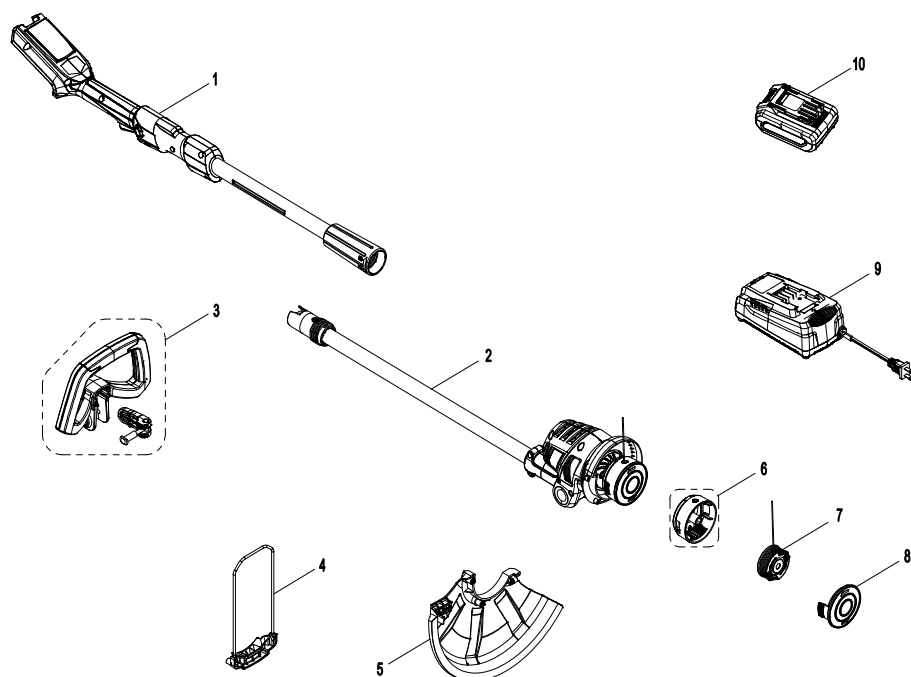
Items not covered by warranty :

1. Any part that has become inoperative due to misuse, commercial use, abuse, neglect, accident, improper maintenance, or alteration;
2. The unit, if it has not been operated and/or maintained in accordance with the owner's manual;
3. Normal wear, except as noted below;
4. Routine maintenance items such as lubricants, nylon line;
5. Normal deterioration of the exterior finish due to use or exposure.

Transportation Charges : Transportation charges for the movement of any power equipment unit or attachment are the responsibility of the purchaser. It is the purchaser's responsibility to pay transportation charges for any part submitted for replacement under this warranty unless such return is requested in writing by LawnMaster.

SAVE YOUR RECEIPTS. THIS WARRANTY IS VOID WITHOUT THEM.

EXPLODED VIEW



PARTS LIST

Key Number	Drawing Number	Description	Quantity
1		Main Handle Assembly	1
2		Power Head Assembly	1
3		Auxiliary Handle Assembly	1
4		Flower Guard Assembly	1
5	221043105	Debris Guard	1
6		Spool Holder	1
7	221043107	Spool With Line	1
8		Spool Cover	1
9	221024107	Charger	1
10	221043108	Battery	1

Replacement parts highlighted in grey are available for after sales purchase. Replacement of repair or internal parts should only be done by a qualified service professional. Please contact your authorized service dealer or Customer Service at 866-384-8432.

