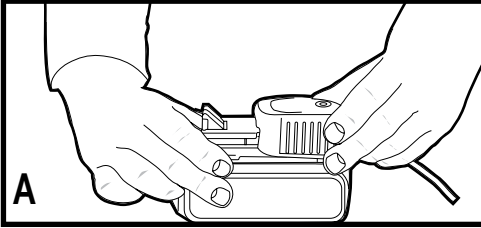
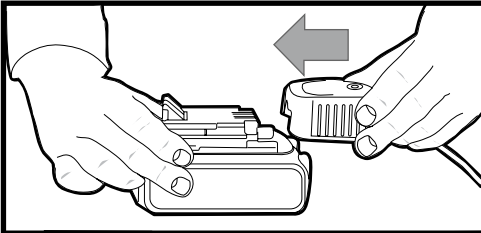


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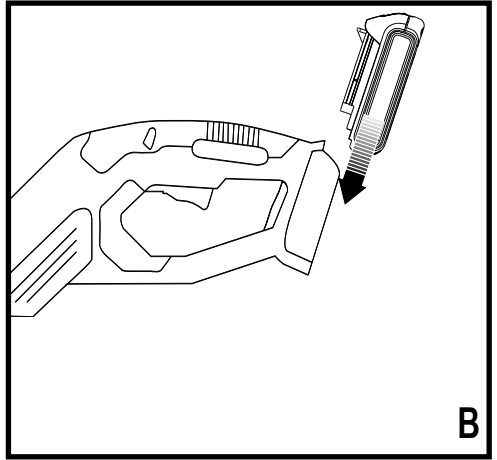
**ST1823**

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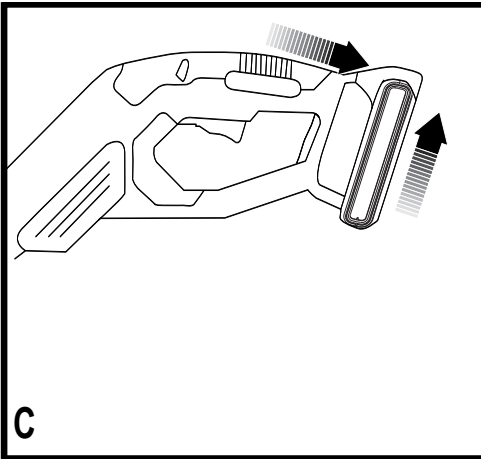
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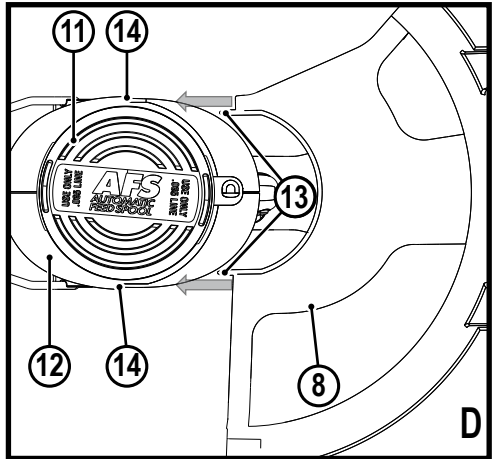
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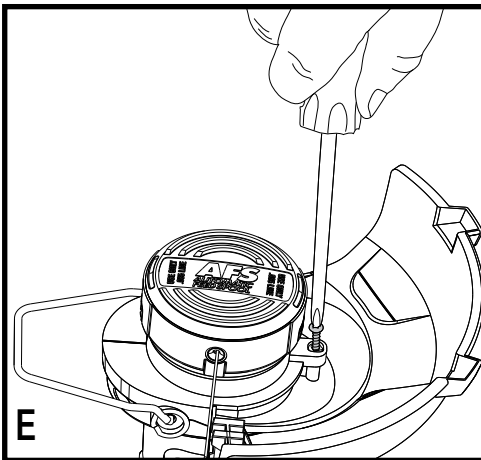
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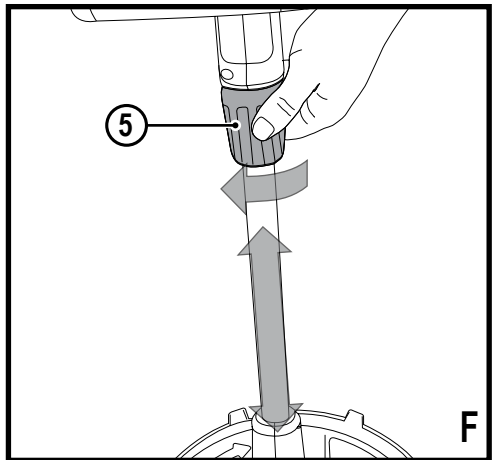
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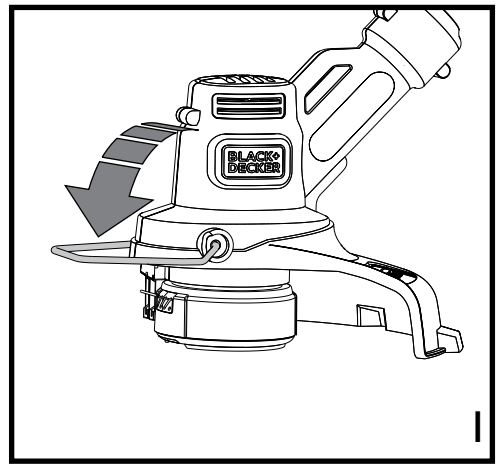
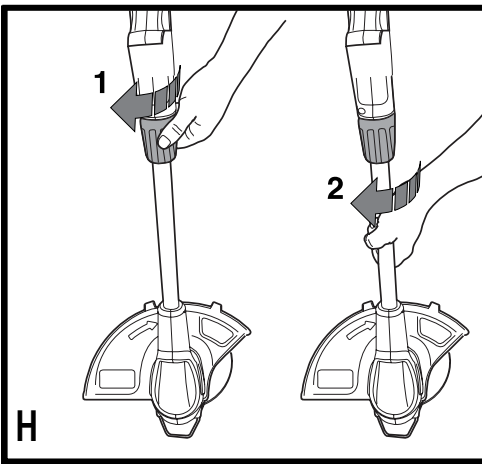
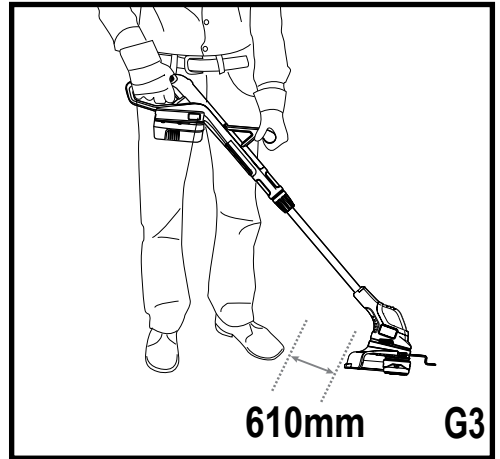
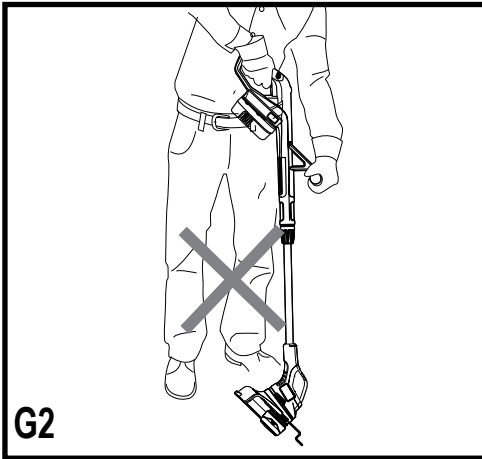
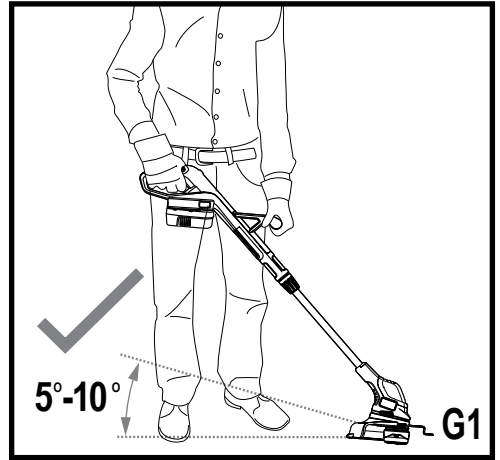
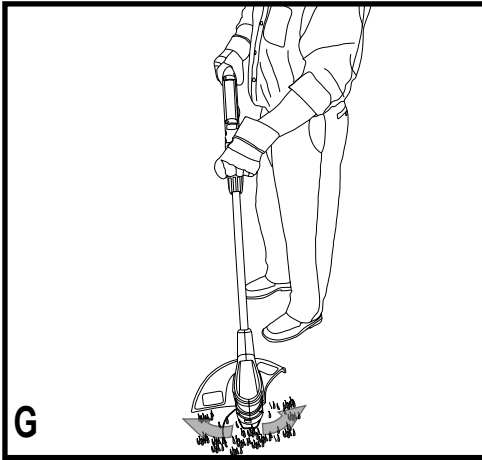
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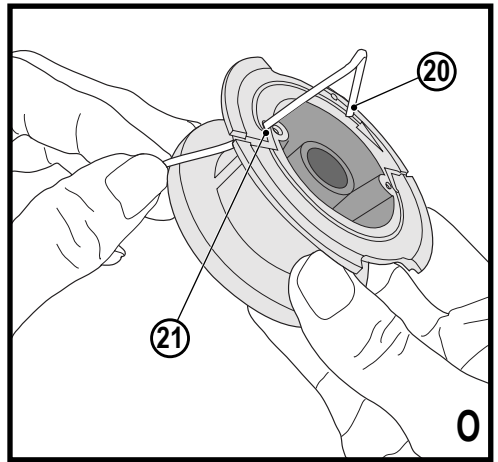
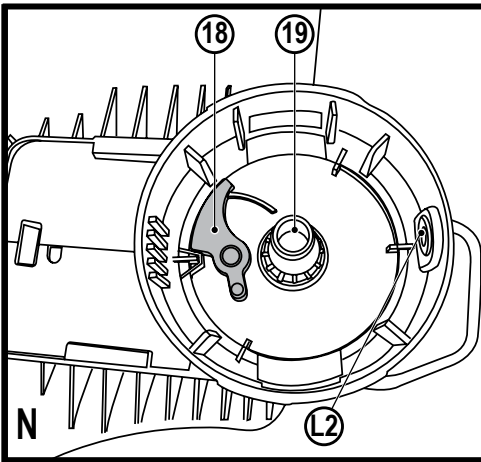
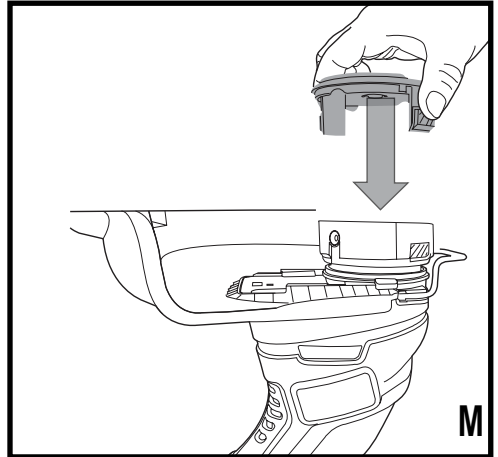
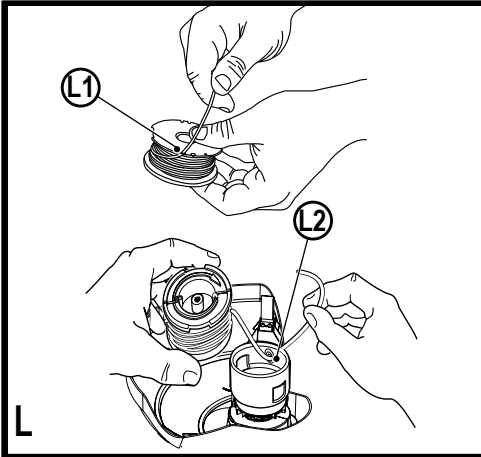
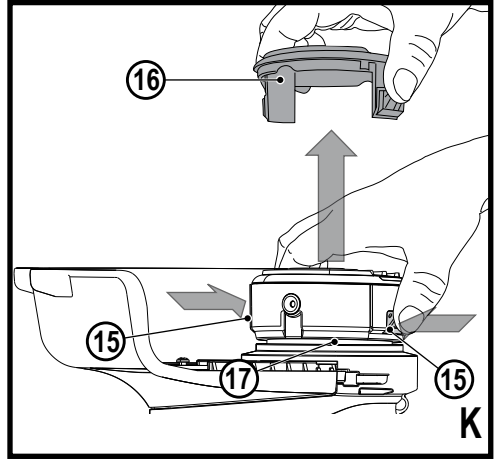
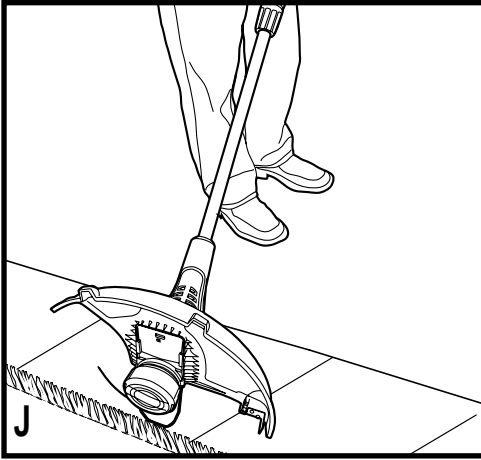


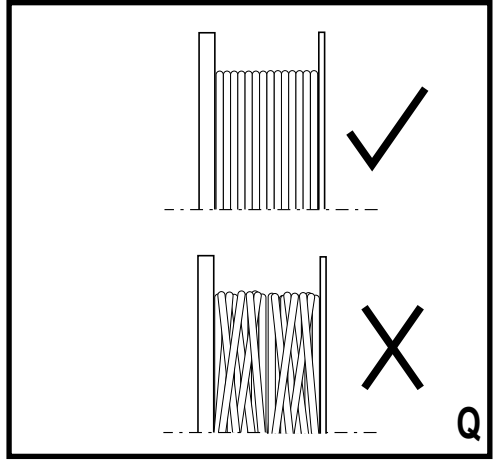
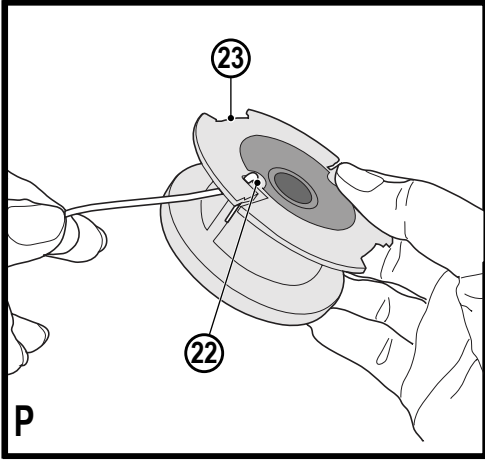
E



F







**Intended use**

Your BLACK+DECKER ST1823 trimmer has been designed for trimming and finishing lawn edges and to cut grass in confined spaces. This appliance is intended for consumer use only.

**Safety Instructions**

**Warning!** When using mains-powered appliances, basic safety precautions, including the following, should always be followed to reduce the risk of fire, electric shock, personal injury and material damage.

**Warning!** When using the machine the safety rules must be followed. For your own safety and bystanders please read these instructions before operating the machine. Please keep the instructions safe for later use.

- ◆ Read all of this manual carefully before operating the appliance.
- ◆ The intended use is described in this manual. The use of any accessory or attachment or the performance of any operation with this appliance other than those recommended in this instruction manual may present a risk of personal injury.
- ◆ Retain this manual for future reference.

**Using your appliance**

Always take care when using the appliance.

- ◆ Always use safety glasses or goggles.
- ◆ Never allow children, persons with reduced physical, sensory or mental

capabilities or lack of experience and knowledge or people unfamiliar with these instructions to use the machine, local regulations may restrict the age of the operator.

- ◆ Never operate the machine while people, especially children, or pets are nearby.
- ◆ Do not allow children or animals to come near the work area or to touch the appliance.
- ◆ Close supervision is necessary when the appliance is used near children.
- ◆ This appliance is not intended for use by young or infirm persons without supervision.
- ◆ This appliance is not to be used as a toy.
- ◆ Only use the appliance in daylight or good artificial light.
- ◆ Use in a dry location only. Do not allow the appliance to become wet.
- ◆ Avoid using the appliance in bad weather conditions, especially when there is a risk of lightning.
- ◆ Do not immerse the appliance in water.
- ◆ Do not open the body casing. There are not user-serviceable parts inside.
- ◆ Do not operate the appliance in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.
- ◆ The appliance is only to be used with the power supply unit provided with the appliance.

## Residual risks.

Additional residual risks may arise when using the tool which may not be included in the enclosed safety warnings.

These risks can arise from misuse, prolonged use etc.

Even with the application of the relevant safety regulations and the implementation of safety devices, certain residual risks can not be avoided.

These include:

- ◆ Injuries caused by touching any rotating/moving parts.
- ◆ Injuries caused when changing any parts, blades or accessories.
- ◆ Injuries caused by prolonged use of a tool. When using any tool for prolonged periods ensure you take regular breaks.
- ◆ Impairment of hearing.
- ◆ Health hazards caused by breathing dust developed when using your tool (example:- working with wood, especially oak, beech and MDF.)

## After use

- ◆ When not in use, the appliance should be stored in a dry, well ventilated place out of reach of children.
- ◆ Children should not have access to stored appliances.
- ◆ When the appliance is stored or transported in a vehicle it should be placed in the boot or restrained to prevent movement following sudden changes in speed or direction.

## Inspection and repairs

- ◆ Before use, check the appliance for damaged or defective parts. Check for breakage of parts and any other conditions that may affect its operation.
- ◆ Do not use the appliance if any part is damaged or defective.
- ◆ Have any damaged or defective parts repaired or replaced by an authorised repair agent.
- ◆ Never attempt to remove or replace any parts other than those specified in this manual.

## Additional safety instructions for grass trimmers

**Warning!** Cutting elements continue to rotate after the motor is switched off.

- ◆ Be familiar with the controls and the proper use of the appliance.
- ◆ Always remove the battery from the appliance whenever the appliance is unattended, before clearing a blockage, before cleaning and maintenance, after striking a foreign object.  
Or whenever the appliance starts vibrating abnormally.
- ◆ Wear stout shoes or boots to protect your feet.
- ◆ Wear long trousers to protect your legs.
- ◆ Before using the appliance, check that your cutting path is free from sticks, stones, wire and any other obstacles.

- ◆ Only use the appliance in the upright position, with the cutting line near the ground. Never switch the appliance on in any other position.
- ◆ Move slowly when using the appliance. Be aware that freshly cut grass is damp and slippery.
- ◆ Do not work on steep slopes. Work across the face of slopes, not up and down.
- ◆ Never cross gravel paths or roads while the appliance is running.
- ◆ Never touch the cutting line while the appliance is running.
- ◆ Do not put the appliance down until the cutting line has come to a complete standstill.
- ◆ Use only the appropriate type of cutting line. Never use metal cutting line or fishing line.
- ◆ Be careful not to touch the line trimming blade.
- ◆ Keep hands and feet away from the cutting line at all times, especially when switching on the motor.
- ◆ Before using the appliance and after any impact, check for signs of wear or damage and repair as necessary.
- ◆ Never operate the appliance with damaged guards or without guards in place.
- ◆ Take care against injury from any device fitted for trimming the filament line length. After extending new cutter line always return the machine to its normal operating position before switching on.

- ◆ Always ensure that the ventilation slots are kept clear of debris.

## Additional safety instructions for batteries and chargers

### Batteries

- ◆ Never attempt to open for any reason.
- ◆ Do not expose the battery to water.
- ◆ Do not store in locations where the temperature may exceed 40°C.
- ◆ Charge only at ambient temperatures between 10°C and 40°C.
- ◆ Charge only using the charger provided with the tool.
- ◆ When disposing of batteries, follow the instructions given in the section "Protecting the environment".

### Chargers

- ◆ Use your BLACK+DECKER charger only to charge the battery in the tool with which it was supplied. Other batteries could burst, causing personal injury and damage.
- ◆ Never attempt to charge non-rechargeable batteries.
- ◆ Have defective cords replaced immediately.
- ◆ Do not expose the charger to water.
- ◆ Do not open the charger.
- ◆ Do not probe the charger.



The charger is intended for indoor use only.



Read the instruction manual before use.



## Electrical safety



Your charger is double insulated; therefore no earth wire is required. Always check that the mains voltage corresponds to the voltage on the rating plate. Never attempt to replace the charger unit with a regular mains plug.

- ◆ If the supply cord is damaged, it must be replaced by the manufacturer or an authorised BLACK+DECKER Service Centre in order to avoid a hazard.

## Labels on appliance

The following pictograms are shown on the tool along with the date code:



Read the manual prior to operation.



Wear safety glasses or goggles when operating this appliance.



Wear suitable ear protectors when operating this appliance.



Always remove the battery from the appliance before performing any cleaning or maintenance.



Beware of flying objects. Keep bystanders away from the cutting area.



Do not expose the appliance to rain or high humidity.

## Features

This appliance includes some or all of the following features.

1. Trigger
2. Lock off button
3. Handle
4. Auxiliary handle

5. Height adjust collar
6. Trimmer head
7. Edge guide
8. Guard
9. Spool housing
10. Battery

## Charging the battery (Fig. A)

The battery needs to be charged before first use and whenever it fails to produce sufficient power on jobs that were easily done before.

The battery may become warm while charging; this is normal and does not indicate a problem.

**Warning!** Do not charge the battery at ambient temperatures below 10°C or above 40°C. Recommended charging temperature: approx. 24°C.

**Note:** The charger will not charge a battery if the cell temperature is below approximately 10°C or above 40°C.

The battery should be left in the charger and the charger will begin to charge automatically when the cell temperature warms up or cools down.

- ◆ Plug the charger into an appropriate outlet before inserting the battery pack.
- ◆ Insert the battery pack into the charger.



The green LED will flash indicating that the battery is being charged.



The completion of charge is indicated by the green LED remaining on continuously. The pack is fully charged and may be used at this time or left in the charger

**Warning!** Recharge discharged batteries as soon as possible after use or battery life may be greatly diminished.

## Charger diagnostics

This charger is designed to detect certain problems that can arise with the battery packs or the power source. Problems are indicated by one LED flashing in different patterns.

## Bad Battery



The charger can detect a weak or damaged battery. The red LED flashes in the pattern indicated on the label. If you see this bad battery blink pattern, do not continue to charge the battery. Return it to a service centre or a collection site for recycling

## Hot/Cold Pack Delay



When the charger detects a battery that is excessively hot or excessively cold, it automatically starts a Hot/Cold Pack delay, suspending charging until the battery has normalised. After this happens, the charger automatically switches to the Pack Charging mode. This feature ensures maximum battery life. The red LED flashes in the pattern indicated on the label when the Hot/Cold pack delay is detected.

## Leaving the battery in the charger

The charger and battery pack can be left connected with the LED glowing indefinitely. The charger will keep the battery pack fresh and fully charged.

## Important charging notes

- ◆ Longest life and best performance can be obtained if the battery pack is charged when the air temperature is between 65°F and 75°F (18°- 24°C). DO NOT charge the battery pack in an air temperature below +40°F (+4.5°C), or above +105°F (+40.5°C). This is important and will prevent serious damage to the battery pack .
- ◆ The charger and battery pack may become warm to touch while charging. This is a normal condition, and does not indicate a problem. To facilitate the cooling of the battery pack after use, avoid placing the charger or battery pack in a warm environment such as in a metal shed, or an uninsulated trailer
- ◆ If the battery pack does not charge properly:
  - ◆ Check current at receptacle by plugging in a lamp or other appliance
  - ◆ Check to see if receptacle is connected to a light switch which turns power off when you turn out the lights.
  - ◆ Move charger and battery pack to a location where the surrounding air temperature is approximately 65°F - 75°F (18°- 24°C).
  - ◆ If charging problems persist, take the appliance, battery pack and charger to your local service center.
- ◆ The battery pack should be recharged when it fails to produce sufficient power on jobs which were easily done previously. DO NOT CONTINUE to use under these conditions. Follow the charging procedure. You may also charge a partially used pack whenever you desire with no adverse affect on the battery pack.
- ◆ Foreign materials of a conductive nature such as, but not limited to, steel wool, aluminium foil, or any buildup of metallic particles should be kept away from charger cavities. Always unplug the charger from the power supply when there is no battery pack in the cavity. Unplug charger before attempting to clean.

- ◆ Do not freeze or immerse charger in water or any other liquid.

**Warning!** Shock hazard. Do not allow any liquid to get inside charger. Never attempt to open the battery pack for any reason.

If the plastic housing of the battery pack breaks or cracks, return to a service center for recycling.

## Installing and removing the battery pack from the appliance

**Warning!** Make certain the lock-off button is not engaged to prevent switch actuation before removing or installing battery.

### To install battery pack

Insert battery (10) into appliance until an audible click is heard (Figure B). Ensure battery pack is fully seated and fully latched into position.

### To remove battery pack

Depress the battery release button (11) as shown in Figure C and pull battery pack out of appliance.

## Assembly

**Warning!** Before assembly, make sure that the tool is switched off and the battery has been removed.

### Assembly tools required (not supplied):

Phillips Screwdriver.

### Fitting the guard (Fig. D, E)

**Warning!** Remove the battery from the appliance before attempting to attach the guard, edge guide or handle. Never operate appliance without guard firmly in place. The guard must always be on the appliance to protect the user.

- ◆ Remove the screw from the guard.
- ◆ Turn the trimmer upside down so that you are looking down at the spool cap (16).
- ◆ Turn the guard (8) upside down and slide it fully onto the motor housing (12). Make sure the tabs (13) on the guard slip into the holes (14) of the motor housing as shown in Figure D.
- ◆ Continue to slide the guard on until you hear it “snap” into place.
- ◆ Using a phillips screwdriver, insert the guard screw and tighten securely as shown in Figure E to complete the guard assembly.
- ◆ Once the guard is installed, remove the covering from the line cut-off blade, located on the edge of the guard.

**Warning!** Never use the tool unless the guard is properly fitted.

## Height adjustment (Fig. F, G–G3)

**Warning!** Adjust the length of the trimmer to obtain proper working positions shown in Figures G - G3.

- ◆ The overall height of the trimmer can be adjusted by loosening the height-adjust collar (5) and rotating it in the direction of the arrow shown in Figure F.
- ◆ Move the upper housing straight up or down. When the desired height is achieved, tighten the collar by rotating it opposite of the direction shown in Figure F.

## Releasing the cutting line

In transit, the cutting line is taped to the spool housing.

- ◆ Remove the tape holding the cutting line to the spool housing.

## Operation

**Warning!** Always use proper eye protection.

**Warning!** Before you begin trimming, only use the appropriate type of cutting line.

**Note:** Inspect area to be trimmed and remove any wire, cord, or string-like objects which could become entangled in the rotating line or spool. Be particularly careful to avoid any wire which might be bent outwardly into the path of the appliance, such as barbs at the base of a chain link fence.

## Switching on and off

- ◆ To switch the appliance on, push the lock-off button (2), and squeeze the trigger (1).
- ◆ To switch the appliance off, release the trigger.

## Operating the trimmer (Fig. F, G–G3)

- ◆ With the unit on, angle unit and slowly swing the trimmer side to side as shown in Figure G.
- ◆ Maintain a cutting angle of 5° to 10° as shown in Figure G1. Do not exceed 10° (Figure G2). Cut with the tip of the line. To keep distance from hard surfaces use edge guide (7).
- ◆ Maintain a minimum distance of 600mm between the guard and your feet as shown in Figure G3. To achieve this distance adjust the overall height of the trimmer as shown in Figure F.

## Convert to edging mode (Fig. H, I)

**Warning!** When being used as an Edger, stones, pieces of metal and other objects can be thrown out at high speed by the line. The trimmer and guard are designed to reduce the danger. However, MAKE SURE that other persons and pets are at least 30 m away. Optimum cutting results are achieved on edges deeper than 50 mm.

- ◆ Remove the battery from the trimmer.
- ◆ To operate as a maintenance edger, turn the collar (5) as shown in part 1 of Figure H.

- ◆ Hold the metal shaft and rotate the lower housing 180° as shown in part 2.
- ◆ Turn the collar until tight.
- ◆ Lift the edge guide (7) into the edging position as shown in Figure I.
- ◆ Position the trimmer above the surface as shown in Figure J.
- ◆ Return to the trimming position by loosening the lock collar and rotating the lower housing back 180°. Turn the collar until tight.

## Helpful cutting tips

- ◆ Use the tip of the string to do the cutting; do not force string head into uncut grass. Use edge guide along such things as fences, houses and flower beds for best practices.
- ◆ Wire and picket fences cause extra string wear, even breakage. Stone and brick walls, curbs, and wood may wear string rapidly.
- ◆ Do not allow spool cap to drag on ground or other surfaces.
- ◆ In long growth cut from the top down and do not exceed 300 mm high.
- ◆ Keep trimmer tilted toward the area being cut; this is the best cutting area.
- ◆ The trimmer cuts when passing the unit from the right to left. This will avoid throwing debris at the operator.
- ◆ Avoid trees and shrubs. Tree bark, wood moldings, siding, and fence posts can easily be damaged by the string.

## Cutting line / line feeding

Your trimmer uses 1.65 mm diameter, Round nylon line. During use, the tips of the nylon lines will become frayed and worn and the special self feeding spool will automatically feed and trim a fresh length of line. Cutting line will wear faster and require more feeding if the cutting or edging is done along sidewalks or other abrasive surfaces or heavier weeds are being cut.

The advanced automatic line feeding mechanism senses when more cutting line is needed and feeds and trims the correct length of line whenever it's required. Do not bump unit on ground in attempt to feed line or for any other purposes.

## Clearing jams and tangled line (Fig. K, L, M)

**Warning!** Remove the battery from the trimmer before making any assembly, adjustments or changing accessories.

Such preventive safety measures reduce the risk of starting the appliance accidentally. From time to time, especially when cutting thick or stalky weeds, the line feeding hub may become clogged with sap or other material and the line will become jammed as a result. To clear the jam, follow the steps listed below.

- ◆ Remove the battery from the trimmer.
- ◆ Press the release tabs (15) on the line spool cap (16), as shown in Figure K and remove the cap by pulling it straight off.
- ◆ Pull the nylon line spool out and clear any broken line or cutting debris from the spool area.
- ◆ Place spool and line into spool cap with line “parked” in slots provided as shown in Figure L1.
- ◆ Insert the line end through the appropriate hole in the spool housing. Pull slack line through until it pulls out of the holding slots as shown in Figure L2.
- ◆ Press the spool down gently and rotate it until you feel it drop into place and then push to snap into place. (When in place, the spool will turn a few degrees left and right freely).
- ◆ Take care to keep the line from becoming trapped under the spool.
- ◆ Align the spool cap tabs with the slots on the spool housing.
- ◆ Snap the spool cap back on as shown in Figure M by depressing lugs and pressing into spool housing.

**Note:** Make sure that cover is fully positioned, listen for two audible clicks to ensure both lugs are correctly located. Power the appliance on. In a few seconds or less you'll hear the nylon line being cut automatically to the proper length.

**Warning!** To avoid appliance damage, if the cutting line protrudes beyond the trimming blade, cut it off so that it just reaches the blade.

**Note:** Other replacement parts (guards, spool caps, etc.) are available through BLACK+DECKER service centers. To find your local service location visit [www.blackanddecker.com](http://www.blackanddecker.com).

**Warning!** The use of any accessory not recommended by BLACK+DECKER for use with this appliance could be hazardous.

### Replacing the spool (Fig. K, L, M, N)

- ◆ Remove battery from appliance.
- ◆ Depress the tabs (15) and remove the spool cap (16) from the spool housing (17) (Figure K).
- ◆ Grasp empty spool with one hand and spool housing with other hand and pull spool out.
- ◆ If lever (18) (Figure N) in base of housing becomes dislodged, replace in correct position before inserting new spool into housing.
- ◆ Remove any dirt and grass from the spool and housing.
- ◆ Unfasten the end of the cutting line and guide the line into the eyelet (L2) Figure L.
- ◆ Take the new spool and push it onto the boss (19) (Figure N) in the housing. Rotate the spool slightly until it is seated. The line should protrude approximately 136 mm from the housing.

- ◆ Align the tabs on the spool cap with the slots in the housing (Figure M).
- ◆ Push the cap onto the housing until it snaps securely into place.

### Rewinding spool from bulk line (Fig. O, P, Q)

Bulk line is also available for purchase from your local retailer. **Note:** Hand wound spools from bulk line are likely to become tangled more frequently than BLACK+DECKER factory wound spools. For best results, factory wound spools are recommended. To install bulk line, follow the steps below:

- ◆ Remove battery from appliance.
- ◆ Remove the empty spool from the appliance as described in “Replacing the spool.”
- ◆ Remove any remaining cutting line from the spool.
- ◆ Make a fold at the end of the cutting line at about 19 mm (20). Feed the cutting line into one of the line anchoring slots (21) as shown in Figure O.
- ◆ Insert the 19 mm end of the bulk line into the hole (22) in the spool adjacent to the slot as shown in Figure P. Make sure the line is pulled tight against the spool as shown in Figure P.
- ◆ Wind the cutting line onto the spool in the direction of the arrow on the spool. Make sure to wind the line on neatly and in layers. Do not crisscross (Figure Q).
- ◆ When the wound cutting line reaches the recesses (23), cut the line (Figure P).
- ◆ Fit the spool onto the appliance as described in “Replacing the spool”.

### Maintenance

Your BLACK+DECKER corded/cordless appliance/tool has been designed to operate over a long period of time with a minimum of maintenance. Continuous satisfactory operation depends upon proper tool/appliance care and regular cleaning.

Your charger does not require any maintenance apart from regular cleaning.

**Warning!** Before performing any maintenance on corded/cordless power tools:

- ◆ Switch off and unplug the appliance/tool.
- ◆ Or switch off and remove the battery from the appliance/tool if the appliance/tool has a separate battery pack.
- ◆ Or run the battery down completely if it is integral and then switch off.
- ◆ Unplug the charger before cleaning it. Your charger does not require any maintenance apart from regular cleaning.
- ◆ Regularly clean the ventilation slots in your tool/appliance and charger using a soft brush or dry cloth.

- ◆ Regularly clean the motor housing using a damp cloth. Do not use any abrasive or solvent-based cleaner.
- ◆ Regularly clean the cutting line and spool using a soft brush or dry cloth.
- ◆ Regularly use a blunt scraper to remove grass and dirt from the underneath of the guard.

### Protecting the environment



Separate collection. Products and batteries marked with this symbol must not be disposed of with normal household waste.

Products and batteries contain materials that can be recovered or recycled reducing the demand for raw materials. Please recycle electrical products and batteries according to local provisions.

### Batteries



At the end of their useful life, discard batteries with due care for our environment:

- ◆ Run the battery down completely, then remove it from the tool.
- ◆ NiCd, NiMH and Li-Ion batteries are recyclable. Place the battery(s) in a suitable packaging to ensure that the terminals cannot be short-circuited. Take them to any authorised repair agent or a local recycling station.
- ◆ Do not short-circuit the battery terminals.
- ◆ Do not dispose of the battery(s) in a fire as this may result in a risk of personal injury or an Explosion.

### POWERCOMMAND

If you encounter a jam, depress the POWERCOMMAND button (4) shown in figure I. The blades will move back and forth in a slower, more forceful rhythm to help cut through difficult branches. Release the button to return to normal hedge trimming usage.

**Note:** Once the button is released, the blades will immediately return to full speed.

**Note:** The blades will stop when the button is held for 15 seconds. To reengage the POWERCOMMAND feature, release the button and depress it again. DO NOT continuously hold the POWERCOMMAND button during normal hedge trimming.

### Troubleshooting

Problem	Solution
<b>Appliance runs slowly.</b>	<p>Remove battery from trimmer.</p> <p>Check that the spool housing can rotate freely. Carefully clean it if necessary.</p> <p>Check that the cutting line does not protrude more than approximately 122 mm from the spool. If it does, cut it off so that it just reaches the line trimming blade</p>
<b>Automatic line feed does not feed line.</b>	<p>More line is fed when the line shortens to approximately 76 mm. To determine if the line is not feeding, let line wear past this point.</p> <p>Keep the tabs depressed and remove the spoolcap with the spool from the spool housing in the trimmer head.</p> <p>Ensure that the line is not crisscrossed on the spool as detailed in (Fig. Q). If it is unwind the cutting line and rewind it neatly.</p> <p>Inspect tracks at the bottom of spool for damage. If damaged, replace spool.</p> <p>Pull the cutting line until it protrudes approximately 122 mm from the spool. If insufficient cutting line is left on the spool, install a new spool of cutting line. Align the tabs on the spool cap with the cut outs in the housing. Push the spool cap onto the housing until it snaps securely into place. If the cutting line protrudes beyond the trimming blade, cut it off so that it just reaches the blade. If the automatic line feed still does not work or the spool is jammed, try the following suggestions: Carefully clean the spool and housing. Make sure you are using correct line size and diameter (1.65 mm) - smaller and larger line sizes will affect the functionality of the auto feed system. Remove the spool and check if the lever in the spool housing can move freely. Remove the spool and unwind the cutting line, then wind it on neatly again. Replace the spool into the housing.</p>
<b>Overfeeding</b>	<p>Ensure you are cutting with the tip of the line 177 mm from the spool. Use the edge guide if needed to ensure proper space is maintained.</p> <p>Ensure you are not exceeding a 10° angle as shown in (Fig. G1).</p>
<b>Line unravels when cap or spool is removed</b>	<p>Make sure to park the lines in holding slots (Fig. L1) before removing.</p>

## Technical data

		<b>ST1823</b>
Input Voltage	V <sub>DC</sub>	20 (Max)
No-Load Speed	min <sup>-1</sup>	9000
Weight	kg	2.05

		<b>BL1518NC</b>
Voltage	V <sub>DC</sub>	20 (Max)
Capacity	Ah	1.5
Type		Li-Ion

		<b>N5973** (typ. 1)</b>
Input Voltage	V <sub>AC</sub>	220
Output Voltage	V <sub>DC</sub>	8-20
Current	mA	400

## Maintenance

Your BLACK+DECKER corded/cordless appliance/tool has been designed to operate over a long period of time with a minimum of maintenance. Continuous satisfactory operation depends upon proper tool care and regular cleaning.

**Warning!** Before performing any maintenance on corded/cordless power tools:

- ◆ Switch off and unplug the appliance/tool.
- ◆ Or switch off and remove the battery from the appliance/tool if the appliance/tool has a separate battery pack.
- ◆ Or run the battery down completely if it is integral and then switch off.
- ◆ Unplug the charger before cleaning it. Your charger does not require any maintenance apart from regular cleaning.
- ◆ Regularly clean the ventilation slots in your appliance/tool/charger using a soft brush or dry cloth.
- ◆ Regularly clean the motor housing using a damp cloth. Do not use any abrasive or solvent-based cleaner.
- ◆ After use, carefully clean the blades. After cleaning, apply rusting.

The cutting blades are made from high quality, hardened steel and with normal usage, they will not require reshaping. However, if you accidentally hit a wire fence, stones, glass or other hard objects, you may put a nick in the blade. There is no need to remove this nick as long as it does not interfere with the movement of the blade.

If it does interfere, remove the battery and use a fine toothed file or sharpening stone to remove the nick. If you drop the trimmer, carefully inspect it for damage. If the blade is bent, housing cracked, or handles broken or if you see any other condition that may affect the trimmer's operation contact your local BLACK+DECKER Service Center for repairs before putting it back into use. Fertilizers and other garden chemicals contain agents which greatly accelerate the corrosion of metals. Do not store the unit on or adjacent to fertilizers or chemicals. With the battery removed, use only mild soap and a damp cloth to clean the unit. Never let any liquid get inside the unit; never immerse any part of the unit into a liquid. Prevent the blades from rusting by applying a film of light machine oil after cleaning.

## Protecting the environment



Separate collection. Products and batteries marked with this symbol must not be disposed of with normal household waste.

Products and batteries contain materials that can be recovered or recycled reducing the demand for raw materials. Please recycle electrical products and batteries according to local provisions.

## Service Information

BLACK+DECKER offers a full network of company-owned and authorized service locations throughout Asia. All BLACK+DECKER Service Centers are staffed with trained personnel to provide customers with efficient and reliable product service.

Whether you need technical advice, repair, or genuine factory replacement parts, contact the BLACK+DECKER location nearest to you.

## Note

- ◆ BLACK+DECKER's policy is one of continuous improvement to our products and, as such, we reserve the right to change product specifications without prior notice.
- ◆ Standard equipment and accessories may vary by country.
- ◆ Product specifications may differ by country.
- ◆ Complete product range may not be available in all countries. Contact your local BLACK+DECKER dealers for range availability.

## 设计用途

您的 BLACK+DECKER ST1823 打草机设计用于修剪和整理草坪边缘，并可在狭窄的空间内割草。本设备仅供消费者使用。

## 电动工具通用安全警告



**警告！** 阅读随电动工具提供的所有安全警告、说明、图示和规定。不遵照以下所列说明会导致电击、着火和/或严重伤害。

### 保存所有警告和说明书以备查阅。

警告中的术语“电动工具”指市电驱动（有线）电动工具或电池驱动（无线）电动工具。

#### a) 工作场地的安全

- 1) 保持工作场地清洁和明亮。杂乱和黑暗的场地会引发事故。
- 2) 不要在易爆环境，如有易燃液体、气体或粉尘的环境下操作电动工具。电动工具产生的火花会点燃粉尘或气体。
- 3) 操作电动工具时，远离儿童和旁观者。注意力不集中会使操作者失去对工具的控制。

#### b) 电气安全

- 1) 电动工具插头必须与插座相配。绝不能以任何方式改装插头。需接地的电动工具不能使用任何转换插头。未经改装的插头和相配的插座将降低电击风险。
- 2) 避免人体接触接地表面，如管道、散热片和冰箱。如果你身体接地会增加电击风险。
- 3) 不得将电动工具暴露在雨中或潮湿环境中。水进入电动工具将增加电击风险。
- 4) 不得滥用电线。绝不能用软线搬运、拉动电动工具或拔出其插头。使软线远离热源、油、锐边或运动部件。受损或缠绕的软线会增加电击风险。
- 5) 当在户外使用电动工具时，使用适合户外使用的延长线。适合户外使用的电线将降低电击风险。
- 6) 如果无法避免在潮湿环境中操作电动工具，应使用带有剩余电流装置（RCD）保护的电源。RCD的使用可降低电击风险。

#### c) 人身安全

- 1) 保持警觉，当操作电动工具时关注所从事的操作并保持清醒。当你感到疲倦，或在有药物、酒精或治疗反应时，不要操作电动工具。在操作电动工具时瞬间的疏忽会导致严重人身伤害。
- 2) 使用个人防护装置。始终佩戴护目镜。防护装置，诸如适当条件下使用防尘面具、防滑安全鞋、安全帽、听力防护等装置能减少人身伤害。
- 3) 防止意外起动。在连接电源和/或电池包、拿起或搬运工具前确保开关处于关断位置。手指放在开关上搬运工具或开关处于接通时通电会导致危险。

- 4) 在电动工具接通之前，拿掉所有调节钥匙或扳手。遗留 在电动工具旋转零件上的扳手或钥匙会导致人身伤害。
- 5) 手不要过分伸展。时刻注意立足点和身体平衡。这样能 在意外情况下能更好地控制住电动工具。
- 6) 着装适当。不要穿宽松衣服或佩戴饰品。让你的头发和 衣服远离运动部件。宽松衣服、配饰或长发可能会卷入 运动部件。
- 7) 如果提供了与排屑、集尘设备连接用的装置，要确保其 连接完好且使用得当。使用集尘装置可降低尘屑引起的 危险。
- 8) 不要因为频繁使用工具而产生的熟悉感而掉以轻心， 忽视工具的安全准则。某个粗心的动作可能在瞬间导 致严重的伤害。

#### d) 电动工具使用和注意事项

- 1) 不要勉强使用电动工具，根据用途使用合适的电动工 具。选用合适的按照额定值设计的电动工具会使你工作 更有效、更安全。
- 2) 如果开关不能接通或关断电源，则不能使用该电动工 具。不能通过开关来控制的电动工具是危险的且必须进行 修理。
- 3) 在进行任何调节、更换附件或贮存电动工具之前，必须 从电源上拔掉插头和/或卸下电池包（如可拆卸）。这种 防护性的安全措施降低了电动工具意外起动的风险。
- 4) 将闲置不用的电动工具贮存在儿童所及范围之外，并且 不允许不熟悉电动工具和不了解这些说明的人操作电 动工具。电动工具在未经培训的使用者手中是危险的。
- 5) 维护电动工具及其附件。检查运动部件是否调整到位 或卡住，检查零件破损情况和影响电动工具运行的其他 状况。如有损坏，应在使用前修理好电动工具。许多事 故是由维护不良的电动工具引发的。
- 6) 保持切削刀具锋利和清洁。维护良好地有锋利切削刃的 刀具不易卡住而且容易控制。
- 7) 按照使用说明书，并考虑作业条件和要进行的作业来选 择电动工具、附件和工具的刀头等。将电动工具用于那 些与其用途不符的操作可能会导致危险情况。
- 8) 保持手柄和握持表面干燥、清洁，不得沾有油脂。在意外 的情况下，湿滑的手柄不能保证握持的安全和对工具 的控制。

#### e) 电池式工具使用和注意事项：

- 1) 仅使用生产者规定的充电器充电。将适用于某种电池包 的充电器用到其他电池包时可能会发生着火危险。
- 2) 仅使用配有专用电池包的电动工具。使用其他电池包可 能会产生伤害和着火危险。
- 3) 当电池包不用时，将它远离其他金属物体，例如回形 针、硬币、钥匙、钉子、螺钉或其他小金属物体，以防电 池包一端与另一端连接。电池组端部短路会引起燃烧或 着火。

- 4) 在滥用条件下，液体可能会从电池组中溅出，应避免接触。如果意外碰到液体，用水冲洗。如果液体碰到了眼睛，还应寻求医疗帮助。从电池中溅出的液体可能会发生腐蚀或燃烧。
- 5) 不要使用损坏或改装过的电池包或工具。损坏或改装过的电池组可能呈现无法预测的结果，导致着火、爆炸或伤害。
- 6) 不要将电池包暴露于火或高温中。电池包暴露于火或高于130°C的高温中可能导致爆炸。

## f) 维修

- 1) 让专业维修人员使用相同的备件维修电动工具。这将保证所维修的电动工具的安全。
- 2) 决不能维修损坏的电池包。电池包仅能由生产者或其授权的维修服务商进行维修。

## 安全说明

**警告!** 使用主电源供电的设备时，请务必始终遵守下列基本安全预防措施，从而降低火灾、触电、人身伤害和材料损坏等风险。

**警告!** 使用该机器时，必须遵守安全规则。为了您自己和旁人的安全，请在操作机器之前阅读以下说明。请妥善保存该说明，以备日后使用。

- ◆ 使用设备前，请仔细阅读本手册。
- ◆ 本手册描述了设备的设计用途。如果配件或附件的使用，或本设备的操作超出本手册建议的范围，则可能出现人身伤害的危险。
- ◆ 请保存好本手册，以备将来查阅。

## 使用设备时

使用本设备时请务必小心。

- ◆ 请务必佩戴安全眼镜或护目镜。
- ◆ 切勿让儿童、身体、感官或精神能力不足的人士，缺乏经验和相关知识的人士或不熟悉手册说明的人士使用该机器，当地法规可能会限制操作员的年龄。
- ◆ 附近有其他人员，特别是儿童或宠物时，切勿操作该机器。
- ◆ 请勿让儿童或动物靠近工作区域或触碰设备。
- ◆ 在附近有儿童的情况下使用本设备时，必须保持密切关注。
- ◆ 在没有他人监督的情况下，小孩或体弱者不适宜使用本设备。
- ◆ 请勿将本设备用作玩具。
- ◆ 仅在日光或人造光线良好的情况下使用本设备。
- ◆ 仅在干燥的地方使用。请勿让设备变湿。
- ◆ 避免在恶劣天气条件下使用本设备，尤其是在有雷击危险的情况下。
- ◆ 请勿将本设备浸泡在水中。
- ◆ 请勿打开设备外壳。这些组件内没有可供用户维修的零件。
- ◆ 请勿在易爆环境（例如存在易燃液体、气体或粉尘的环境）中操作设备。
- ◆ 本设备只能使用随附的电源装置。

## 剩余风险

使用工具时，可能出现本安全警示之外的其他剩余风险。

这些风险可能来自使用不当、使用时间过长等。

尽管遵守了相关的安全法规并采用了安全装备，某些剩余风险仍然是无法避免的。

这些风险包括：

- ◆ 接触旋转/运动部件时所导致的伤害风险。
- ◆ 更换零件、锯片或配件时所导致的伤害。
- ◆ 长期使用工具所导致的伤害风险。长期使用任何工具时，均应定期休息。
- ◆ 听力损伤。
- ◆ 吸入工具使用过程中产生的粉尘导致的健康危害（例如，锯切木材，特别是橡木、山毛榉和中密度纤维板时）。

## 使用后

- ◆ 不使用时，应将设备存放在干燥、通风良好且儿童无法触及的地方。
- ◆ 应将设备放在孩子接触不到的地方。
- ◆ 使用车辆存放或运输设备时，应将设备置于行李箱中或进行固定，以防止在车辆突然变速或转向时发生移动。

## 检查与维修

- ◆ 使用前，请检查设备是否受损或存在缺陷部件。检查部件是否破裂，以及是否存在影响设备操作的其它情况。
- ◆ 如果部件损坏或存在缺陷，请勿使用设备。
- ◆ 请将损坏或有缺陷的零件交由授权维修代理商进行维修与更换。
- ◆ 禁止试图拆卸或更换本手册规定之外的任何部件。

## 打草机的附加安全说明

**警告!** 电机关闭后，切割元件将继续旋转一段时间。

- ◆ 当在切割物件可能触及暗线的场合进行操作时，通过绝缘握持手握持工具。切割器碰到带电导线会使工具金属零件成为带电从而使操作者受到电击。
- ◆ 熟悉设备的控制和正确使用方法。
- ◆ 在无人看管的情况下、清除障碍物之前、进行清洁和维护之前，以及在碰到异物之后，请始终从设备上取下电池。或每当设备开始出现异常振动时，请始终从设备上取下电池。
- ◆ 穿着结实的鞋子或靴子以保护双脚。
- ◆ 穿着长裤以保护双腿。
- ◆ 在使用本设备之前，请检查您的切割路径是否有木棍、石头，电线和其他任何障碍物。
- ◆ 仅可在竖直状态下使用本产品，且切割线应靠近地面。切勿在任何其他状态下打开设备电源。
- ◆ 使用本产品时请缓慢移动。请注意，刚割过的草是湿滑的。
- ◆ 请勿在陡峭的斜坡上工作。在斜坡上应采取横向工作方式，而不应采取纵向工作方式。
- ◆ 设备运行时，切勿穿过碎石路或道路。



- ◆ 设备运行时，切勿触摸切割线。
- ◆ 在切割线完全静止之前，请勿放下设备。
- ◆ 仅使用适当类型的切割线。切勿使用金属切割线或钓鱼线。
- ◆ 注意不要触摸切割线锯片。
- ◆ 始终使手和脚远离切割线，尤其是在电机开启时。
- ◆ 在使用设备之前和发生任何撞击之后，请检查是否有磨损或损坏的迹象，并根据需要进行修理。
- ◆ 切勿在防护罩已损坏或防护罩未到位的情况下操作设备。
- ◆ 请注意避免因任何用于修整灯丝线长度的设备而受伤。  
延长新的切割线后，请务必在开机之前将机器返回到其正常操作位置。
- ◆ 始终确保通风槽内没有碎屑。

## 设备上的标签

工具上显示下列符号和日期码：



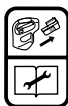
操作前请先阅读本手册。



使用本设备时，请佩戴防护眼镜或安全护目镜。



操作本设备时，请佩戴合适的护耳器。



在进行任何清洁或维护之前，请务必从设备中取出电池。



请小心飞行物体。请让旁观者远离切割区域。



请勿将本设备暴露在雨中或高湿度环境中。



## 部件名称

本设备包含如下部分或全部部件。

1. 触发器
2. 锁止按钮
3. 手柄
4. 副手柄
5. 高度调节轴环
6. 打草机头
7. 磨边导板
8. 防护罩
9. 线轴外壳
10. 电池

## 为电池充电（图 A）

电池在首次使用之前，以及无法像从前一样对工作轻松提供足够的电量时，都需要充电。

电池在充电时可能会变热；这是正常现象，而且并不表示出现问题。

**警告！** 请勿在环境温度低于 10°C 或高于 40°C 的情况下为电池充电。建议的充电温度大约 24°C。

**注：**若电池温度低于约 10°C 或高于 40°C，充电器将不会为电池充电。

## 电池和充电器的附加安全说明

### 电池

- ◆ 不论基于任何理由，都不要尝试打开电池。
- ◆ 请勿将电池暴露在水中。
- ◆ 请勿将电池存放在温度可能超过 40°C 的地方。
- ◆ 只在环境温度介于 10°C 和 40°C 之间的情况下充电。
- ◆ 只能使用本工具随附的充电器为电池充电。
- ◆ 处理电池时，请遵循“保护环境”部分所提供的说明进行。

### 充电器

- ◆ 只能使用工具随附的 BLACK+DECKER 充电器为工具内的电池充电。其他非原厂电池可能会爆裂，导致人身伤害和损害。
- ◆ 切勿尝试为不可再充电的电池充电。
- ◆ 应立即更换有缺陷的电线。
- ◆ 请勿将充电器暴露在水中。
- ◆ 请勿打开充电器。
- ◆ 请勿刺破充电器。



充电器仅供室内使用。



用户在使用前必须阅读使用手册。

## 电气安全



本充电器为双重绝缘，因此无需接地线。请务必检查电源电压是否与铭牌上的电压一致。切勿尝试使用一般的电源插头替换充电器。

- ◆ 如果电源线损坏，必须让制造商或授权的 BLACK+DECKER 服务中心更换以避免发生危险。

电池应留在充电器内，充电器会在电池温度升高或降低到合适温度时自动开始充电。

- ◆ 放进电池组前，先将充电器的插头插到相应的电源插座上。
- ◆ 将电池组插入充电器。



绿色 LED 灯将会闪烁，表示电池正在充电。



绿色 LED 灯持续亮起表示充电完成。此时电池组已完全充电，您可以使用电池组或将电池组留在充电器上。

**警告!** 电池用过之后应尽快充电，否则电池使用寿命可能大幅缩短。

## 充电器故障诊断

本充电器能够检测电池组或电源可能出现的一些问题。LED 灯不同的闪烁模式表示出现不同的问题。

## 电池损坏



充电器可以检测电力不足或受损的电池。红色 LED 灯按标签上所标示的模式闪烁。如果您看到电池损坏的闪烁模式，请不要继续为电池充电。请将电池送回维修中心或回收站进行回收。

## 热/冷电池组延迟



当充电器检测到电池过热或过冷时，它会自动启动热/冷电池延迟模式，暂停充电，直到电池达到正常的温度。启动此模式后，充电器会自动切换到电池组充电模式。此功能可确保电池拥有最长的使用寿命。当检测到热/冷电池组延迟模式时，红色 LED 灯会按标签上所标示的模式闪烁。

## 将电池留在充电器中

充电器可以和电池组长期连接，此时 LED 指示灯常亮。充电器会让电池组保持电量充满的状态。

## 重要充电说明

- ◆ 在空气温度为 65°F - 75°F (18°C - 24°C) 的环境中充电以达到最长的电池组使用寿命和最佳效能。请勿在空气温度低于 +40°F (+4.5°C) 或高于 +105°F (+40.5°C) 的情况下为电池组充电。这很重要，可以防止电池组严重受损。
- ◆ 充电时，充电器和电池组表面温度可能升高。这是正常现象，并不表示出现问题。要在使用后加快电池组冷却速度，应避免将充电器或电池组放在金属棚或绝缘拖车等温度较高的地方。

◆ 如果电池组没有正常充电：

- ◆ 在插座中插入灯具或其它电器的插头，以检查插座中是否有电流
- ◆ 检查插座是否与灯具开关相连接，关闭灯具开关时会切断电源。
- ◆ 将充电器和电池组移至周围空气温度约为 65 - 75°F (18 - 24°C) 的地方；
- ◆ 如果充电问题仍然存在，请将设备、电池组和充电器送往当地服务中心。
- ◆ 当电池组无法像从前一样为作业轻松提供足够的电量时，必须进行充电。在这些情况下请勿继续使用。请遵循充电程序。您可以为已消耗部分电量的电池组充电，这不会对电池组造成不良影响。
- ◆ 带有导电性质的外来物件，包括但不限于，例如钢材、木材、铝箔或任何金属颗粒堆积物等都不应出现在充电器内。充电器内没有电池组时，请断开充电器与电源的连接。清洗前，请务必拔掉充电器。

◆ 请勿冻结充电器或将充电器浸泡在水或任何其他液体中。

**警告!** 触电危险。请勿让任何液体渗入充电器，切勿以任何理由试图打开电池组。

如果电池组的塑料外壳破损或裂开，请送回服务中心再循环利用。

## 插入或取出设备上的电池组

**警告!** 安装或拆卸电池前，请确保锁定按钮已闭合以避免开关启动。

## 安装电池组

将电池 (10) 插入设备直到听到咔嚓声 (图 B)。确保放好电池组并完全锁定到位。

## 取出电池组

如图 C 所示，按下电池释放按钮 (11)，然后从设备中拉出电池组。

## 组装

**警告!** 组装前，请确保关闭工具电源并取出电池。

**所需的组装工具 (不提供)：**

十字螺丝起子。

## 安装防护罩 (图 D, E)

**警告!** 在尝试安装防护装置，磨边导板或把手之前，请从设备中取出电池。请勿在没有牢固防护装置的情况下操作设备。防护装置必须始终安装于设备上以保护用户。

- ◆ 从防护罩上拆下螺丝。
- ◆ 将打草机头倒置，以便可向下看到线轴盖 (16)。
- ◆ 将防护罩 (8) 倒置，然后将其完全滑到电机外壳 (12) 上。确保防护罩上的凸耳 (13) 滑入电机外壳的孔 (14) 中，如图 D 所示。
- ◆ 继续滑动防护罩，直到听到其“卡扣”到位。
- ◆ 使用十字螺丝刀，插入防护螺钉并如图 E 所示将其牢固拧紧，以完成防护组件。

- ◆ 一旦安装好防护罩，请从防护罩边缘上的线路切断刀片上取下盖板。

**警告!** 除非正确安装防护罩，否则切勿使用该工具。

## 高度调节 (图 F, G-G3)

**警告!** 调整打草机的长度，以获得如图 G-G3 所示的正确工作位置。

- ◆ 打草机的总高度可以通过松开高度调节轴环 (5) 并沿图 F 所示的箭头方向旋转来调节。
- ◆ 垂直向上或向下移动上壳体。当达到所需的高度时，通过按图 F 所示的相反方向旋转轴环来拧紧轴环。

## 释放切割线

在运输过程中，切割线被绑在线轴外壳上。

- ◆ 撕下将切割线固定到线轴外壳的胶带。

## 操作

**警告!** 始终佩戴适当的护目镜。

**警告!** 在开始修剪之前，仅使用适当类型的切割线。

**注:** 检查要修剪的区域，并清除可能缠绕在旋转管线或线轴中的任何电线，绳索或细绳状物体。特别要注意避免任何可能向外弯曲进入设备路径的电线，例如链节围栏底部的倒钩。

## 开启和关闭

- ◆ 如需打开设备电源，请按下锁定按钮 (2)，然后压下扳机 (1)。
- ◆ 如需关闭设备电源，请松开触发开关。

## 操作打草机 (图 F, G-G3)

- ◆ 如图 G 所示，打开并倾斜装置，然后缓慢地左右摆动打草机。
- ◆ 保持 5° 至 10° 的切割角度，如图 G1 所示。请勿超过 10° (图 G2)。用线的尖端进行切割。使用磨边导板 (7) 时，请与坚硬的表面保持一定距离。
- ◆ 如图 G3 所示，防护罩与脚之间的最小距离应保持 600 毫米。为了达到该距离，请调整打草机的整体高度，如图 F 所示。

## 转换为磨边模式 (图 H, I)

**警告!** 当用作磨边机时，石头，金属碎片和其他物体可能被切割线以高速抛出。打草机和防护罩旨在减少危险。但是，请确保其他人 and 宠物与机器相隔至少 30 米。在深于 50 毫米的边缘上可获得最佳切割效果。

- ◆ 请先取出打草机内的电池。
- ◆ 如需用作维护磨边机，请如图 H 的第 1 部分所示旋转轴环 (5)。
- ◆ 握住金属轴，然后将下部外壳旋转 180°，如第 2 部分所示。

- ◆ 将轴环转至紧固状态。
- ◆ 如图 I 所示，将磨边导板 (7) 提起至包边位置。
- ◆ 将打草机定位在表面上方，如图 J 所示。
- ◆ 通过松开锁紧轴环并将下部外壳向后旋转 180°，返回到切割位置。将轴环转至紧固状态。

## 有用的切割技巧

- ◆ 用切割线的尖端进行切割；请勿用力将线头伸入未切割的草丛中。沿着围栏，房屋和花坛等物品使用磨边导板以获得最佳效果。
- ◆ 铁丝网和栅栏会造成额外的切割线磨损，甚至断裂。石头和砖墙，路缘石和木头可能会很快磨损切割线。
- ◆ 请勿使线轴盖在地面或其他表面上拖动。
- ◆ 切割较长的杂草时，应采用从上往下的方式，而且高度不能超过 300 毫米。
- ◆ 保持打草机向被切割区域倾斜；这是最好的切割区域。
- ◆ 将打草机保持从右向左的方向进行切割。这样可以避免切割下的杂物飞向操作员。
- ◆ 请避免树木和灌木丛。切割线容易损坏树皮、木线条，壁板和围栏。

## 切割线/送线

您的打草机使用直径 1.65 毫米的圆形尼龙线。在使用过程中，尼龙线的末端会受到磨损，特殊的自进线轴将自动进给并将线修剪成新的长度。如果沿着人行道或其他研磨性表面进行切割或磨边，或者要切割较重的杂草，则切割线的磨损速度会更快，并且需要更多的进料。

先进的自动线进给机制可以感应到何时需要更多切割线，并在需要时进给并修剪正确的线长。请勿将设备撞在地面上，以尝试送线或用于任何其他目的。

## 清除卡住的物质和纠缠的切割线 (图 K, L, M)

**警告!** 在进行任何组装，调整或更换配件之前，请从打草机上取下电池。

这种预防性安全措施能降低设备意外启动的风险。有时，尤其是当切割较厚或过长的杂草时，进线集线器可能会被树叶或其他物质堵塞，并导致线被卡住。如需清除卡住的物质，请按以下步骤进行操作。

- ◆ 请先取出打草机内的电池。
- ◆ 如图 K 所示，按下线轴盖 (16) 上的释放凸耳 (15)，并笔直将其拉下以将其取下。
- ◆ 拉出尼龙线轴，并清除线轴区域上的任何断线或碎屑。
- ◆ 将线轴和切割线放入线轴盖，使切割线“停放”在提供的槽中，如图 L1 所示。
- ◆ 将线的末端穿过线轴外壳上适当的小孔中。将松散的切割线穿过固定槽，直到将其从槽中拉出，如图 L2 所示。

- ◆ 轻轻向下按下线轴并旋转，直到感觉到其已落入到位，然后推动以卡入到位。(安装到位后，线轴将左右自由旋转几度)。
- ◆ 小心不要使切割线卡在线轴下方。
- ◆ 将线轴盖的凸耳与线轴外壳上的插槽对齐。
- ◆ 如图 M 所示，通过压下凸耳并将其压入线轴外壳，将线轴盖重新卡紧。

**注：**确保盖子完全定位，听见两声喀嗒声以确保两个凸耳都正确定位。开启设备在几秒钟或更短的时间内，您会听到尼龙线被自动剪切成适当的长度。

**警告！** 为避免损坏设备，如果切割线超出修整刀片，则将其切断，使其恰好到达刀片。

**注：**其他更换零件（防护罩，线轴盖等）可在 BLACK+DECKER 服务中心单独购买。如需查找您的本地服务位置，请访问 [www.blackanddecker.com](http://www.blackanddecker.com)。

**警告！** 使用任何 BLACK+DECKER 不建议与本设备配合使用的附件会导致危险。

## 更换线轴 (图 K, L, M, N)

- ◆ 将电池从设备中取出。
- ◆ 按下凸耳 (15)，然后从线轴外壳 (17) 上拆下线轴盖 (16) (图 K)。
- ◆ 一只手抓住空线轴，另一只手抓住线轴外壳，然后将其拉出。
- ◆ 如果外壳底部的杠杆 (18) (图 N) 脱落，则在将新线轴插入外壳之前，将其更换到正确的位置。
- ◆ 清除线轴和外壳上的所有灰尘和草皮。
- ◆ 松开切割线的末端，然后将线引导到孔眼 (L2) 中，如图 L 所示。
- ◆ 取下新线轴并将其推入外壳中的凸台 (19) (图 N)。稍微旋转线轴，直到其就位。切割线应从外壳伸出约 136 毫米。
- ◆ 将线轴盖上的凸耳与外壳上的插槽对齐 (图 M)。
- ◆ 将盖子推入外壳，直至其牢固卡入到位。

## 将散装线重新绕成线轴 (图 O, P, Q)

也可以从当地零售商处购买散装线。

**注：**来自散装线的手动缠绕线轴比 BLACK+DECKER 工厂缠绕线轴更容易缠绕。为了获得最佳工作效果，建议使用工厂绕制的线轴。如需安装散装线，请按照以下步骤操作：

- ◆ 将电池从设备中取出。
- ◆ 如“更换线轴”中所述，从设备上卸下空的线轴。
- ◆ 从线轴上拆下所有剩余的切割线。
- ◆ 在切割线的末端折叠约 19 毫米 (20)。将切割线送入其中一个线固定槽 (21) 中，如图 O 所示。
- ◆ 如图 P 所示，将散装管线的 19 毫米端插入线轴上与插槽相邻的孔 (22) 中。确保将线拉紧，如图 P 所示。

- ◆ 将切割线按照线轴上的箭头方向缠绕到线轴上。确保将线整齐地分层缠绕。请勿将线进行交叉 (图 Q)。
- ◆ 当绕制的切割线到达凹槽 (23) 时，将线切断 (图 P)。
- ◆ 如“更换线轴”中所述将线轴安装到设备上。

## 维护

BLACK+DECKER 有线/无线设备/工具设计精良，可以长期使用，仅需极少维护。要持续获得令人满意的工作效果，需要对工具/设备进行适当的保养和定期清洁。

除了定期清洁外，本充电器无需其他保养。

**警告！** 对有线/无线电动工具进行任何维护工作之前，必须：

- ◆ 关闭电源并拔下设备/工具插头。
- ◆ 如果设备/工具配有独立电池组，请关闭电源并从设备/工具上取下电池。
- ◆ 如果设备/工具配有一体式电池，请将电池电量耗尽后，然后再关闭电源。
- ◆ 清洁之前，先拔下充电器插头。除了定期清洁外，本充电器无需其他保养。
- ◆ 请使用软刷或干布定期清洁工具/设备和充电器内的通风槽。
- ◆ 定期使用湿布清洁电动机外壳。请勿使用任何研磨性或溶剂型清洁剂。
- ◆ 定期使用软刷或干布清洁切割线和线轴。
- ◆ 定期使用钝的刮刀清除防护罩下方的草皮和污垢。

## 保护环境



分类回收。由此符号标记的产品和电池不得与普通家庭垃圾一起处理。

产品和电池包含可恢复或回收的材料，从而降低对原材料的需求。请根据当地供给回收电子产品和电池。

## 电池



在电池使用寿命结束时，请妥善处理以保护我们的环境。

- ◆ 耗尽电池的电力，然后将其从工具中取出。
- ◆ 镍镉、镍氢和锂电池可再循环利用。将电池置于合适的包装中，确保两极不会短路。将其送到任一授权维修代理商处或当地的回收站。
- ◆ 请勿短接电池的两极。
- ◆ 请勿将电池弃置于火中，因为这会带来人身伤害或爆炸的风险。

## POWERCOMMAND

如果遇到卡住的情况, 请如图 I 所示按下 POWERCOMMAND 按钮 (4)。锯片将以较慢, 更有力的节奏来回移动, 以帮助切穿较难处理的树枝。松开按钮以恢复正常的树篱修剪用法。

注: 松开按钮后, 锯片将立即恢复全速。

注: 按住按钮 15 秒钟, 锯片将停止转动。如需重新启用 POWERCOMMAND 功能, 请松开按钮并再次按下。在正常的树篱修剪过程中, 请勿连续按住 POWERCOMMAND 按钮。

## 故障排除

问题	解决方案
设备运行缓慢。	<p>将电池从打草机中取出。</p> <p>检查线轴外壳能否自由旋转。如有必要, 请仔细清洁。</p> <p>确认切割线从线轴伸出的距离不超过 122 毫米。如果超过, 请将其切掉, 使其恰好到达切割线刀片。</p>
自动送线功能无法进行送线。	<p>当切割线缩短至约 76 毫米时, 将输送更多切割线。如需确定切割线是否未正常送入, 使切割线磨损至短于这一长度。</p> <p>保持按下凸耳, 将线轴和线轴盖从打草机头上的线轴外壳上取下。</p> <p>确保线没有在线轴上交叉 (如图 Q 所示)。如果线在线轴上交叉, 松开切割线并将其整齐地缠绕。</p> <p>检查线轴底部的轨道是否损坏。如果损坏, 请更换线轴。</p> <p>拉动切割线, 直到它从线轴超出约 122 毫米。如果线轴上没有足够的切割线, 请安装新的切割线轴。</p> <p>将线轴盖上的凸耳与外壳上的切口对齐。</p> <p>将线轴盖推入外壳, 直至其牢固卡入到位。</p> <p>如果切割线超出修整刀片, 则将其切断, 使其恰好到达刀片。</p> <p>如果自动送线仍然不起作用或线轴卡住, 请尝试以下建议:</p> <p>仔细清洁线轴和外壳。确保使用正确的线径和直径 (1.65 毫米) - 太大或太小的线径会影响自动送线系统的功能。拆下线轴并检查线轴外壳中的杆是否可以自由移动。拆下线轴并松开切割线, 然后再次将其整齐地缠绕。将线轴装回外壳。</p>
过度送线	<p>确保从线轴起 177 毫米的线尖进行切割。如有需要, 请使用磨边导板以确保保持适当的空间。</p> <p>确保不超过如图 G1 所示的 10° 角。</p>
取下线轴盖或线轴时, 切割线将松开	<p>在卸下之前, 请确保将切割线停放在固定插槽中 (图 L1)。</p>

## 技术参数

		ST1823
输入电压	伏特 <sub>直流</sub>	20 (Max)
空载转速	转/分	9000
重量	千克	2.05

电池		BL1518NC
电压	伏特 <sub>直流</sub>	20 (Max)
电池容量	安时	1.5
类型		锂电

充电器		N5973** (typ.1)
输入电压	伏特 <sub>交流</sub>	220
输出电压	伏特 <sub>直流</sub>	8-20
电流	毫安	400

## 维护

BLACK+DECKER 有线/无线设备/工具设计精良, 可以长期使用, 仅需极少维护。要连续获得令人满意的工作效果, 需要进行合适的工具维护和定期清洁。

**警告!** 对有线/无线电动工具进行任何维护工作之前, 必须:

- ◆ 关闭电源并拔下设备/工具插头。
- ◆ 如果设备/工具配有独立电池组, 请关闭电源并从设备/工具上取下电池。
- ◆ 如果设备/工具配有一体式电池, 请将电池电量耗尽后, 然后再关闭电源。
- ◆ 清洁之前, 先拔下充电器插头。除了定期清洁外, 本充电器无需其他保养。
- ◆ 定期使用软刷或干布清洁设备/工具/充电器内的通风槽。
- ◆ 定期使用湿布清洁电动机外壳。请勿使用任何研磨性或溶剂型清洁剂。
- ◆ 使用后, 请仔细清洁锯片。清洁后, 请进行除锈。

切割锯片由高质量的硬化钢制成, 在正常使用情况下, 无需重新研磨。

但是, 如果不小心碰到了铁丝网、石头, 玻璃或其他硬物, 则可能会在锯片上留下划痕。但只要不干扰锯片的运动, 即无必要去除这一划痕。

如果确实造成干扰, 请取出电池并使用细齿锉或磨刀石去除划痕。如果将打草机掉落, 请仔细检查其是否损坏。如果出现锯片弯曲, 外壳破裂或手柄折断, 或者您看到任何其他可能影响打草机操作的情况, 请在使用前联系当地的 BLACK+DECKER 服务中心进行维修。肥料和其他园林化学品所含的试剂可大大加速金属的腐蚀。请勿将设备存放在肥料或化学药品上或附近。在移除电池的情况下, 仅使用温和的肥皂和湿布清洁设备。切勿让任何液体渗入设备, 切勿让设备的任何部件浸在液体中。清洁后, 请涂上一层轻机油以防止锯片生锈。

## 保护环境



分类回收。由此符号标记的产品和电池不得与普通家庭垃圾一起处理。

产品和电池包含可恢复或回收的材料，从而降低对原材料的需求。请根据当地供给回收电子产品和电池。

## 服务信息

BLACK+DECKER 提供覆盖整个亚洲的公司隶属和授权服务地点。所有的 BLACK+DECKER 服务中心都具有训练有素的人员，为客户提供高效和可靠的产品服务。

不论您是需要技术建议、维修或原厂替换部件，请联系最靠近您的 BLACK+DECKER 地点。

## 备注

- ◆ BLACK+DECKER 的政策是持续改进我们的产品，因此，我们保留随时更改产品规格的权利，恕不另行通知。
- ◆ 标准设备和附件可能会因国家（地区）而异。
- ◆ 不同国家（地区）的产品规格也可能会有所不同。
- ◆ 并非所有的国家（地区）都可提供完整的产品系列。有关各产品系列的供货情况，请联系您当地的 BLACK+DECKER 代理商。

制造商：百得（苏州）精密制造有限公司

地址：江苏省苏州工业园区苏虹中路200号出口加工区

产地：江苏苏州

## 产品中有害物质的名称及含量

部件名称	有害物质					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
马达组件	O	O	O	O	O	O
机壳组件	O	O	O	O	O	O
控制部件 (开关,PCB 等)	X	O	O	O	O	O
电池	X	O	O	O	O	O
充电器	X	O	O	O	O	O
电线组件	X	O	O	O	O	O
手柄护罩	O	O	O	O	O	O
附件	O	O	O	O	O	O

本表格依据SJ/T 11364的规定编制。

O: 标识该有害物质在该部位所有均质材料中的含量均在GB/T 26572规定的限量要求以下。

X: 标识该有害物质至少在该部位的某一均质材料中的含量超出GB/T 26572规定的限量要求

备注: 本产品不必包含以上所述的所有部件。由于生产工艺和技术的不可替代性, 本产品中含有某些有害物质, 在环保使用期限内可以放心使用, 超过环保使用期限之后则应进入回收循环系统。

环保使用期限为“电子电气产品中含有的有害物质不会发生外泄或突变, 电子电气产品用户正常使用该电子电气产品不会对环境造成严重污染或对其人身、财产造成严重损害的期限”。



: 环保使用期限为20年。此环保使用期限不代表产品的安全使用期限和质量保证年限。

