



Professional GRA 18V2-46

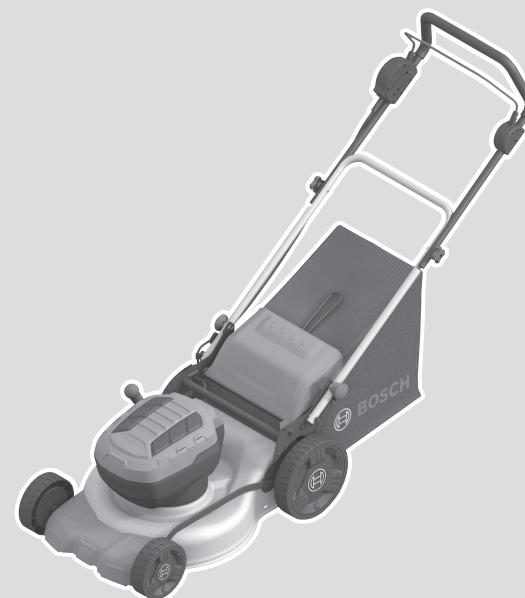
Robert Bosch Power Tools GmbH
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GERMANY

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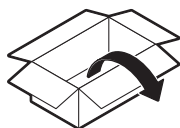


- en Original instructions
- zh 正本使用说明书
- zh 原始使用說明書
- ko 사용 설명서 원본
- th หนังสือคู่มือการใช้งานฉบับต้นแบบ
- id Petunjuk-Petunjuk untuk Penggunaan Orisinal
- vi Bản gốc hướng dẫn sử dụng



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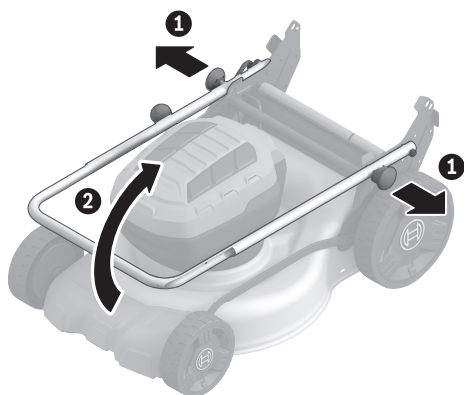
27,7 kg

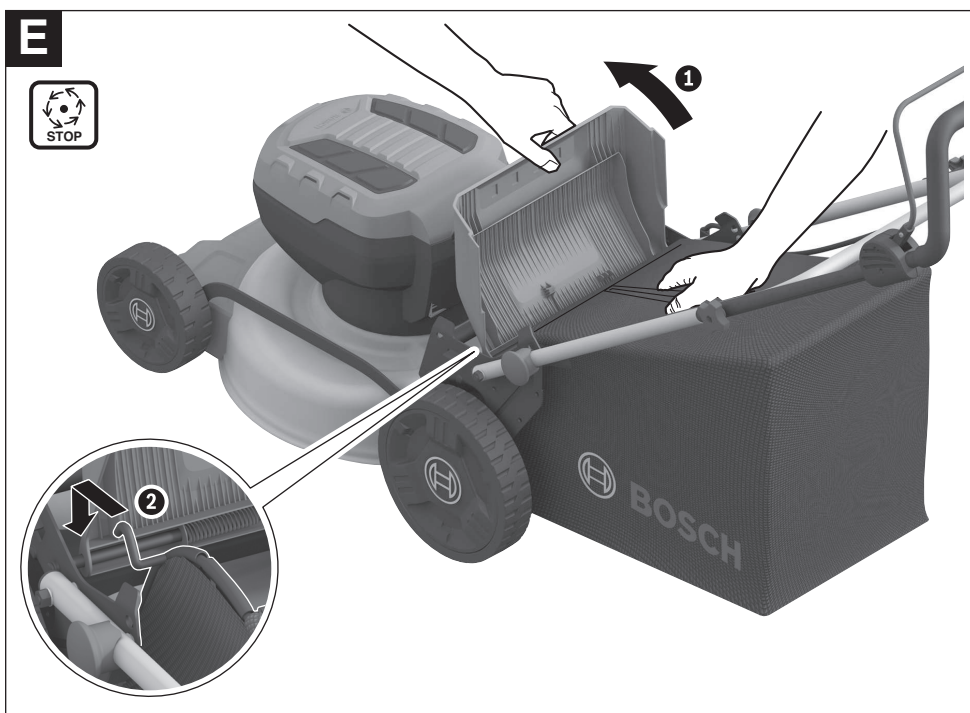
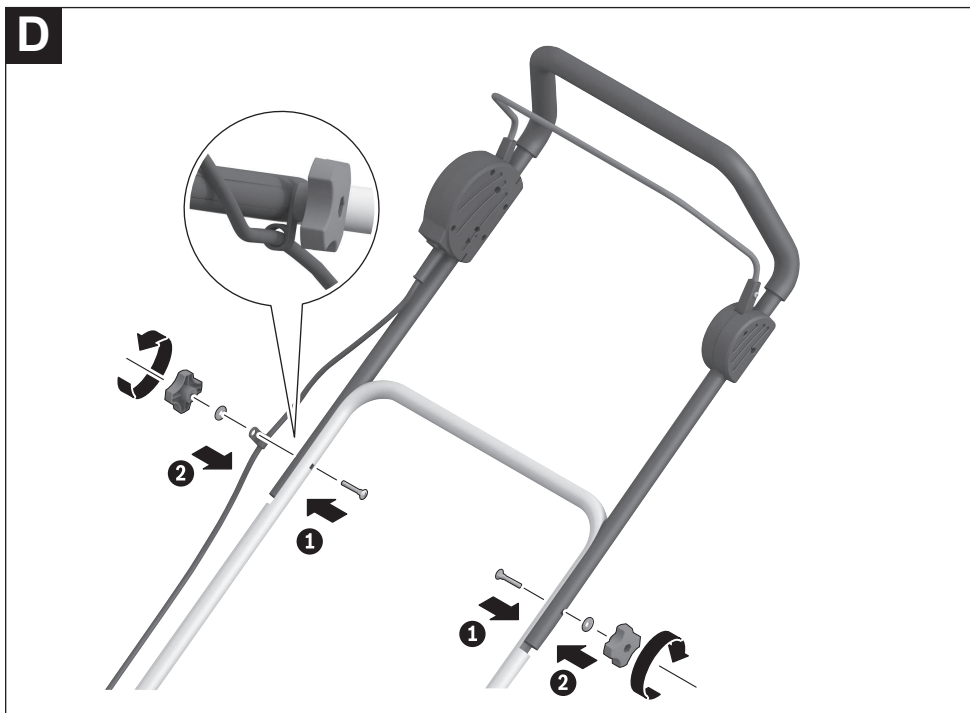


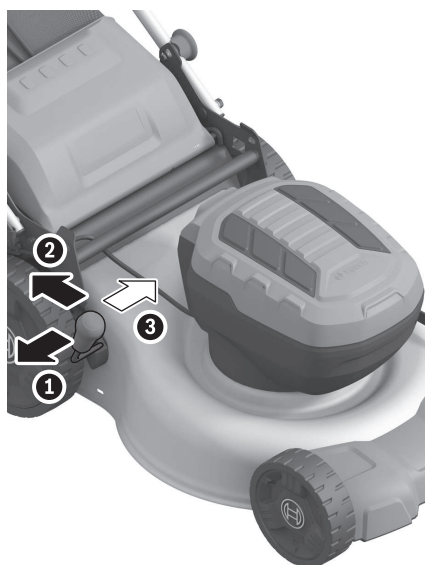
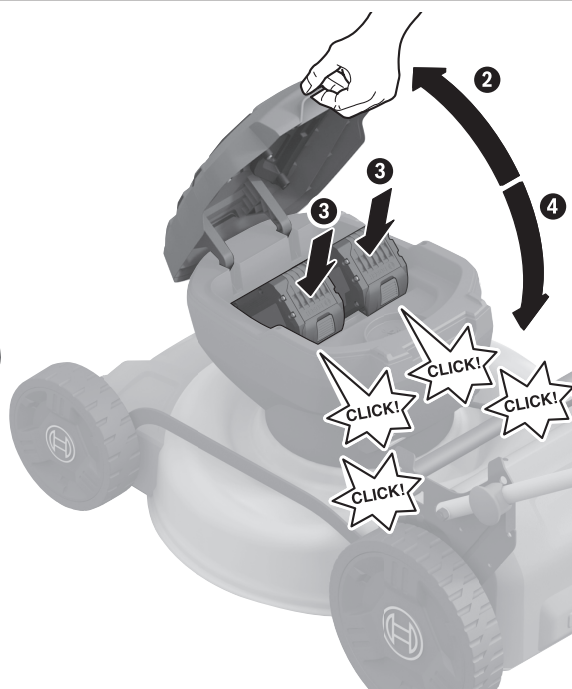
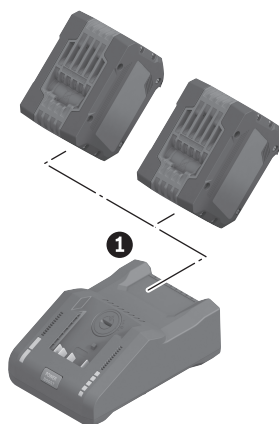
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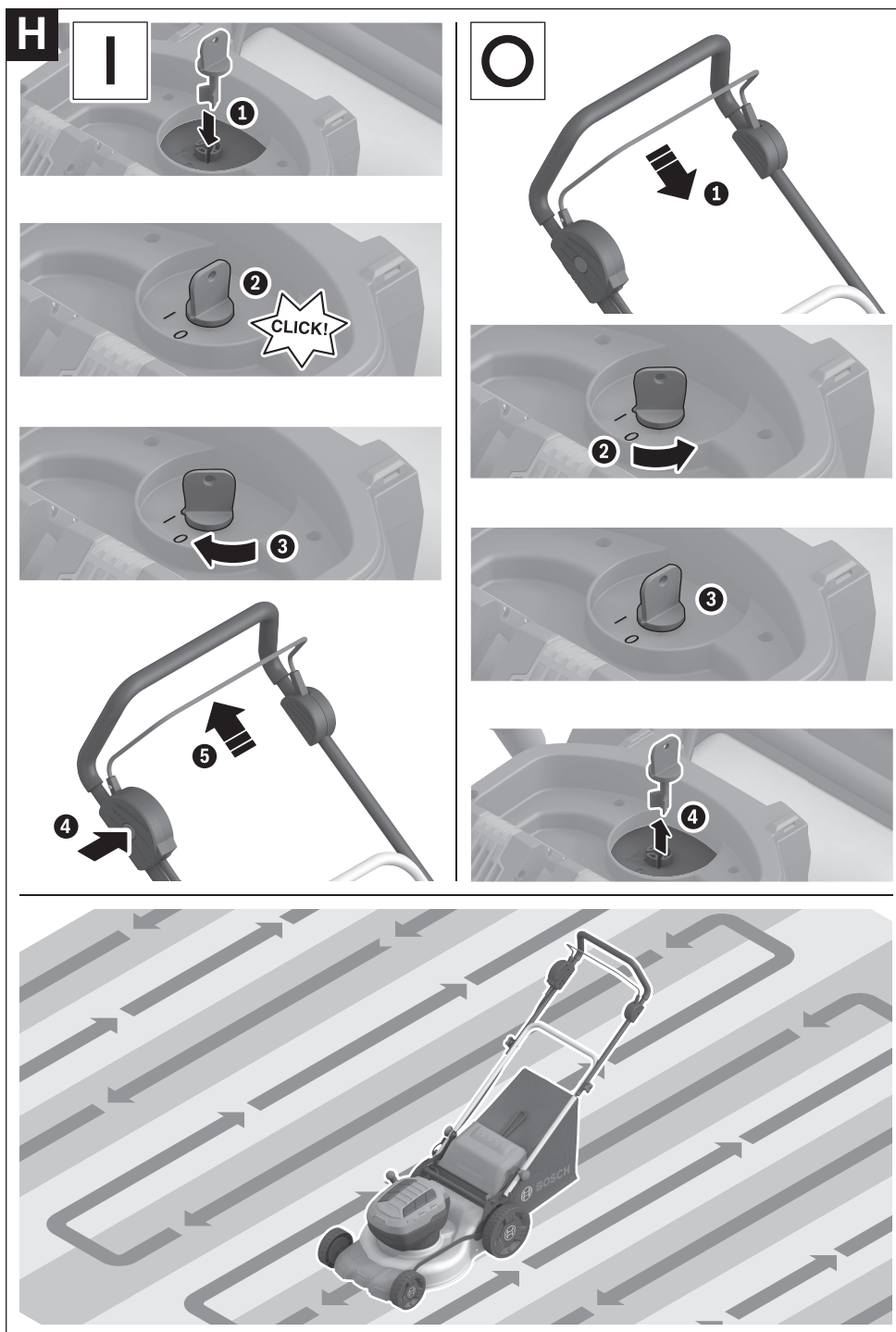


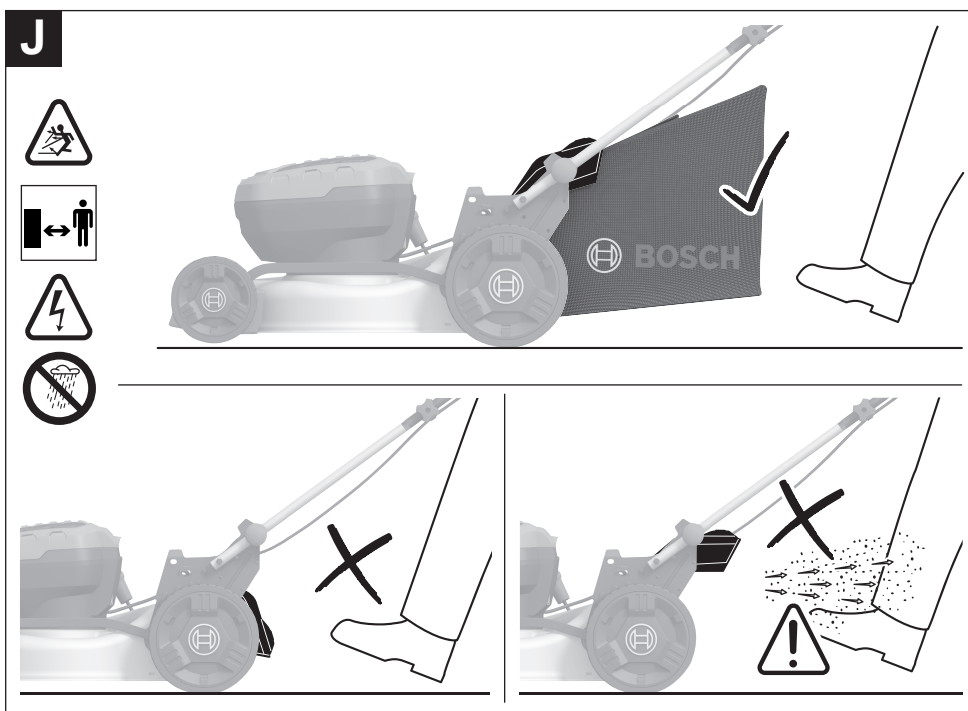
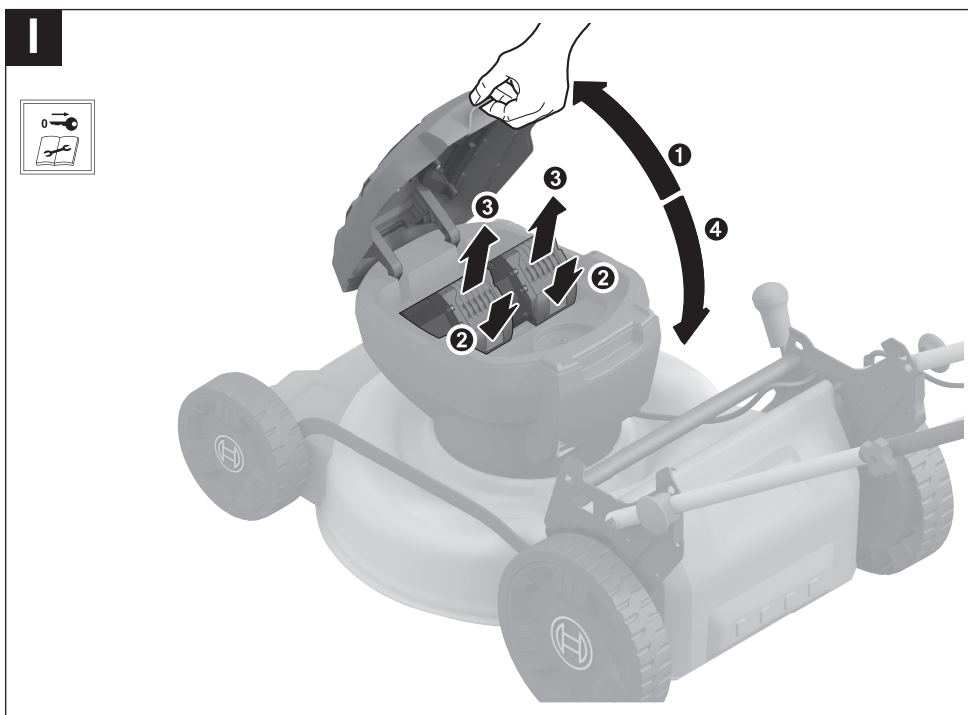
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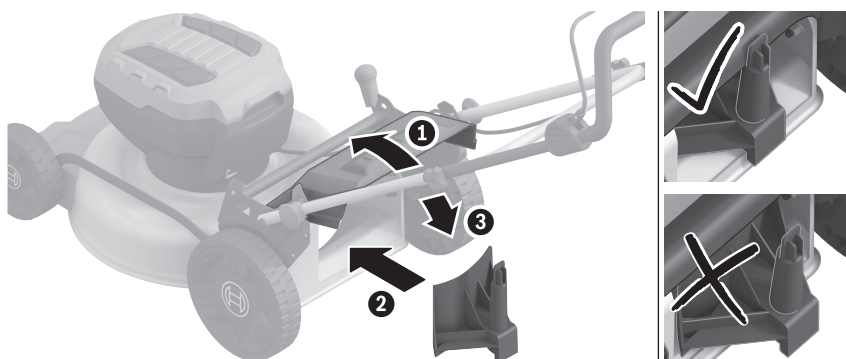


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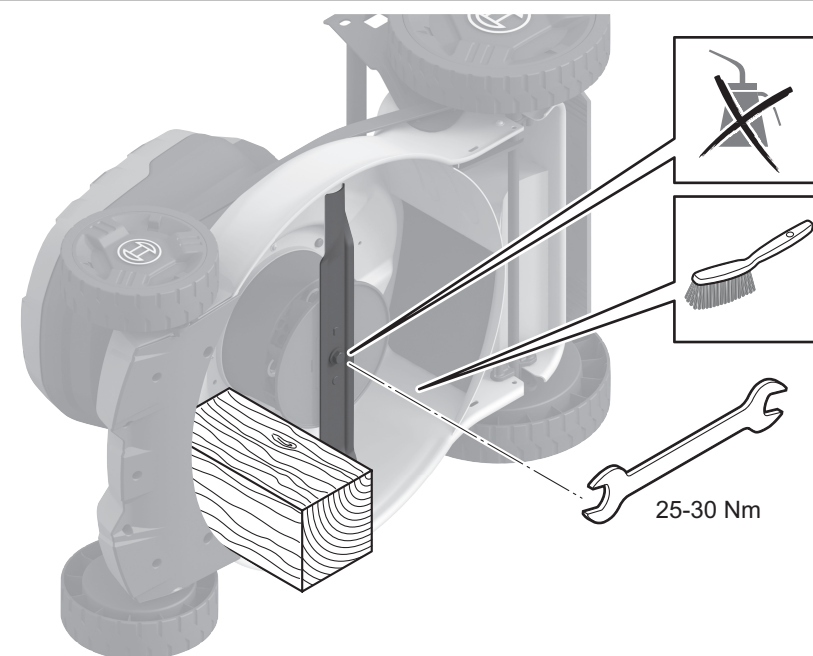


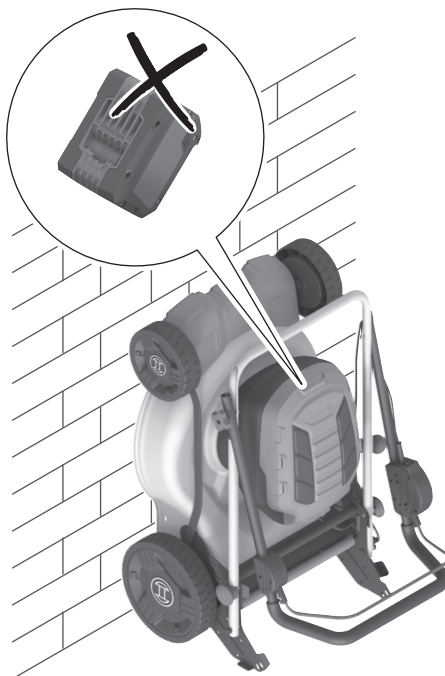
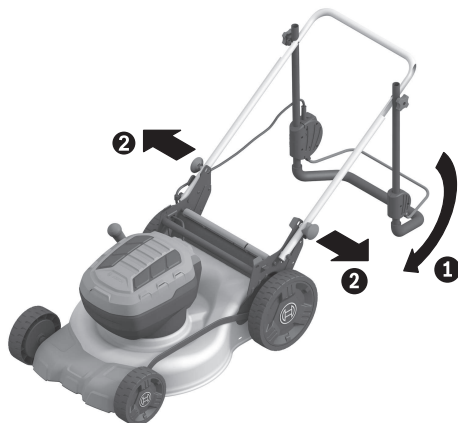


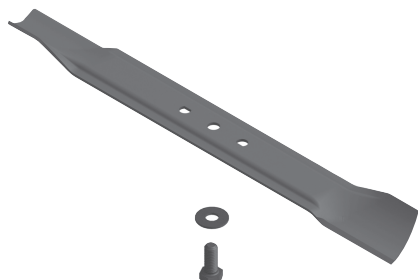
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F 016 800 638

English

Safety Notes

Explanation of symbols – lawnmower



General hazard safety alert.



Read instruction manual.



Make sure that bystanders are not injured by foreign objects being thrown away.



WARNING: Keep bystanders away.



WARNING: Keep hands and feet away from the blades.



WARNING: Disconnect battery before maintenance.



WARNING: Remove the disabling device before maintenance.



Not applicable.



Wait until all machine components have completely stopped before touching them. The blades continue to rotate after the machine is switched off, a rotating blade can cause injury.



Do not expose to rain.



Not applicable.



Do not use a high-pressure washer or a garden hose to clean the machine.



Carefully check the area where the tool is to be used for wildlife and pets. Wildlife and pets may be injured while the machine is in operation. Thoroughly check the working area and remove any stones, sticks, wires, bones and foreign objects. When using the machine, ensure that no wildlife, pets or small tree stumps are hidden in the dense grass.

General Power Tool Safety Warnings

⚠ WARNING

Read all safety warnings, instructions, illustrations and specifications provided with this power tool.

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

Save all warnings and instructions for future reference.

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

Work area safety

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

Electrical safety

- ▶ **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.

Personal safety

- ▶ **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.** A moment of inattention while operating power tools may result in serious personal injury.
- ▶ **Use personal protective equipment. Always wear eye protection.** Protective equipment such as a dust mask, non-skid safety shoes, hard hat or hearing protection used for appropriate conditions will reduce personal injuries.
- ▶ **Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool.** Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.
- ▶ **Remove any adjusting key or wrench before turning the power tool on.** A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
- ▶ **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
- ▶ **Dress properly. Do not wear loose clothing or jewellery. Keep your hair and clothing away from moving parts.** Loose clothes, jewellery or long hair can be caught in moving parts.
- ▶ **If devices are provided for the connection of dust extraction and collection facilities, ensure these are con-**

nected and properly used. Use of dust collection can reduce dust-related hazards.

- ▶ **Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles.** A careless action can cause severe injury within a fraction of a second.

Power tool use and care

- ▶ **Do not force the power tool. Use the correct power tool for your application.** The correct power tool will do the job better and safer at the rate for which it was designed.
- ▶ **Do not use the power tool if the switch does not turn it on and off.** Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- ▶ **Disconnect the plug from the power source and/or remove the battery pack, if detachable, from the power tool before making any adjustments, changing accessories, or storing power tools.** Such preventive safety measures reduce the risk of starting the power tool accidentally.
- ▶ **Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** Power tools are dangerous in the hands of untrained users.
- ▶ **Maintain power tools and accessories. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use.** Many accidents are caused by poorly maintained power tools.
- ▶ **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- ▶ **Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed.** Use of the power tool for operations different from those intended could result in a hazardous situation.
- ▶ **Keep handles and grasping surfaces dry, clean and free from oil and grease.** Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.

Battery tool use and care

- ▶ **Recharge only with the charger specified by the manufacturer.** A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
- ▶ **Use power tools only with specifically designated battery packs.** Use of any other battery packs may create a risk of injury and fire.
- ▶ **When 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.

- ▶ **Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help.** Liquid ejected from the battery may cause irritation or burns.
- ▶ **Do not use a battery pack or tool that is damaged or modified.** Damaged or modified batteries may exhibit unpredictable behaviour resulting in fire, explosion or risk of injury.
- ▶ **Do not expose a battery pack or tool to fire or excessive temperature.** Exposure to fire or temperature above 130 °C may cause explosion.
- ▶ **Follow all charging instructions and do not charge the battery pack or tool outside the temperature range specified in the instructions.** Charging improperly or at temperatures outside the specified range may damage the battery and increase the risk of fire.

Service

- ▶ **Have your power tool serviced by a qualified repair person using only identical replacement parts.** This will ensure that the safety of the power tool is maintained.
- ▶ **Never service damaged battery packs.** Service of battery packs should only be performed by the manufacturer or authorized service providers.

Lawnmower safety warnings

- ▶ **Do not use the lawnmower in bad weather conditions, especially when there is a risk of lightning.** This decreases the risk of being struck by lightning.
- ▶ **Thoroughly inspect the area for wildlife where the lawnmower is to be used.** Wildlife may be injured by the lawnmower during operation.
- ▶ **Thoroughly inspect the area where the lawnmower is to be used and remove all stones, sticks, wires, bones, and other foreign objects.** Thrown objects can cause personal injury.
- ▶ **Before using the lawnmower, always visually inspect to see that the blade and the blade assembly are not worn or damaged.** Worn or damaged parts increase the risk of injury.
- ▶ **Check the grass catcher frequently for wear or deterioration.** A worn or damaged grass catcher may increase the risk of personal injury.
- ▶ **Keep guards in place. Guards must be in working order and be properly mounted.** A guard that is loose, damaged, or is not functioning correctly may result in personal injury.
- ▶ **Keep all cooling air inlets clear of debris.** Blocked air inlets and debris may result in overheating or risk of fire.
- ▶ **While operating the lawnmower, always wear non-slip and protective footwear. Do not operate the lawnmower when barefoot or wearing open sandals.** This reduces the chance of injury to the feet from contact with the moving blade.

- ▶ **While operating the lawnmower, always wear long trousers.** Exposed skin increases the likelihood of injury from thrown objects.
- ▶ **Do not operate the lawnmower in wet grass. Walk, never run.** This reduces the risk of slipping and falling which may result in personal injury.
- ▶ **Do not operate the lawnmower on excessively steep slopes.** This reduces the risk of loss of control, slipping and falling which may result in personal injury.
- ▶ **When working on slopes, always be sure of your footing, always work across the face of slopes, never up or down and exercise extreme caution when changing direction.** This reduces the risk of loss of control, slipping and falling which may result in personal injury.
- ▶ **Use extreme caution when reversing or pulling the lawnmower towards you. Always be aware of your surroundings.** This reduces the risk of tripping during operation.
- ▶ **Do not touch blades and other hazardous moving parts while they are still in motion.** This reduces the risk of injury from moving parts.
- ▶ **When clearing jammed material or cleaning the lawnmower, make sure all power switches are off and the battery pack is disconnected.** Unexpected operation of the lawnmower may result in serious personal injury.

Additional safety warnings

- ▶ **This tool contains magnets – keep away from implants and other medical devices, e.g. pacemaker or insulin pumps, magnetic storage media and magnetically sensitive devices.** The magnet generates a field that can impair the function of the devices or lead to irreversible data loss.
- ▶ When adjusting the machine, make sure not to pinch your fingers between the moving blades and fixed parts of the machine.
- ▶ Check the product for damage if it hits a hard object or in case of excessive vibration.
- ▶ Always allow the product to cool down before storing.
- ▶ Empty the grassbox before storing.

Operation

- ▶ Wait until the blades stop if the machine has to be tilted for transportation when crossing surfaces other than grass and when transporting the machine to and from the area to be mowed.
- ▶ Do not tilt the machine when starting or switching on the motor.
- ▶ Switch on the motor according to the instructions with feet well away from rotating parts.
- ▶ Do not put hands or feet near or under rotating parts.
- ▶ Always stand clear of the discharge zone when operating the machine.
- ▶ Never pick up or carry the machine while the motor is running.

- ▶ When folding handles to storage position be mindful of cable positions to avoid damaging or pinching the cables.
- ▶ Tool does not start when handles are folded in storage position.
- ▶ If you store the lawnmower in a horizontal position, ensure that the rechargeable batteries have been removed and that the isolator key has been switched off.
- ▶ When storing the lawnmower in a vertical position, ensure that the blades have come to a stop, the batteries are removed and the isolator key is switched off.
- ▶ Only lift the garden tool with the carrying handle. Use the carrying handle with care.

Remove Isolator key:

- While transporting the lawnmower.
- Whenever you leave the garden tool.
- Before clearing a blockage.
- Before checking, cleaning or working on the garden tool.
- After striking a foreign object; inspect the product for damage and change the blade as necessary.
- If the product starts to vibrate abnormally (check immediately).

Recommendations for Optimal Handling of the Battery Pack

- ▶ **Do not open the battery.** There is a risk of short-circuiting.



Protect the battery against heat (e.g., against continuous intense sunlight), fire, water, and moisture. There is a risk of explosion.

- ▶ **When not using the machine detach the battery away from paper clips, coins, keys, nails, screws, or other small metal objects that could cause bridging of the terminals.** Shorting the battery terminals together may cause burns or a fire.
- ▶ **In case of damage and improper use of the battery pack, vapours may be emitted.** Ventilate the area and seek medical help in case of complaints. The vapours can irritate the respiratory system.
- ▶ **Only use the battery with products from the manufacturer.** This is the only way in which you can protect the battery against dangerous overload.
- ▶ **The battery can be damaged by pointed objects such as nails or screwdrivers or by force applied externally.** An internal short circuit may occur, causing the battery to burn, smoke, explode or overheat.
- ▶ **Do not short-circuit the battery.** There is a risk of explosion.
- ▶ Occasionally clean the air inlet vents of the battery using a soft, clean and dry brush.
- ▶ **Only charge the batteries with chargers approved by Bosch.**

Symbols

The following symbols are important for reading and understanding the original instructions. Please take note of the symbols and their meaning. The correct interpretation of the symbols will help you to use the product in a better and safer manner.

Symbol	Meaning
	Movement direction
	Reaction direction
	Wear protective gloves
	Wear safe footwear.
	Weight
	Switching On
	Switching Off

Symbol	Meaning
	Permitted action
	Prohibited action
CLICK!	Audible noise
	Accessories/Spare parts

Product Description and Specifications



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

Please observe the illustrations at the ending of this operating manual.

Intended Use

The garden tool is intended for lawn mowing.

The garden product is not intended for hedge cutting, trimming, shredding, etc.

The garden tool is intended for lawn mowing at ground level.

Technical Data

Lawnmower		GRA 18V2-46
Article number		3 600 HC8 0..
Rated voltage ^{A)}	V	36 V (2 x 18 V)
Cutting width	cm	46
Cutting height	mm	30–70
Volume, grass bag	l	60
Weight according to IEC 62841-1/IEC 62841-4-3 ^{A)}	kg	27,7
Serial number		See type plate on garden tool
Recommended ambient temperature during charging	°C	0 to +35
Permitted ambient temperature during operation ^{B)} and during storage	°C	–20 to +50
Compatible rechargeable batteries		GBA18V... GBA 18V... ProCORE18V... EXPERT18V... EXBA18V... CORE18V...
Recommended rechargeable batteries for maximum performance		GBA 18V... ≥ 4.0 Ah ProCORE18V... ≥ 4.0 Ah EXPERT18V...
Recommended battery chargers		GAL18... GAL 18... GAL 36... GAL12V/18... GAL 12V/18...

A) Depends on the rechargeable batteries used

B) Limited performance at temperatures < 0 °C

Rechargeable batteries

Bosch sells some cordless power tools without a rechargeable battery. You can tell whether a rechargeable battery is included with the power tool by looking at the packaging.

Charging the batteries

- **Use only the chargers listed in the technical data.** Only these chargers are matched to the lithium-ion battery of your power tool.

Note: Lithium-ion rechargeable batteries are supplied partially charged according to international transport regulations. To ensure full capacity of the rechargeable battery, completely charge the rechargeable batteries before the first use.

Inserting Batteries

- **This machine is designed to only run with 2 batteries and will also not function if one of the batteries is completely discharged. Always use batteries with the same charge level and never combine full and part-charged batteries as the run time will always be dictated by the least charged battery.**

Note: Using unsuitable batteries can lead to malfunctions or damage the machine.

Insert the charged batteries. Ensure that the batteries are fully inserted.

Push the charged batteries into the battery port until they are locked in place.

Removing the Batteries

The batteries have 2 locking levels to prevent them from falling out if the battery release button is pushed unintentionally. As long as the batteries are inserted in the power tool, they are held in position by means of a spring.

To remove the batteries press the battery release button and pull out the batteries. **Do not use force to do this.**

Battery charge indicator

Note: Not all battery types have a battery charge indicator.

The green LEDs on the battery charge indicator indicate the state of charge of the battery. For safety reasons, it is only possible to check the state of charge when the power tool is not in operation.

Press the button for the battery charge indicator  or  to show the state of charge. This is also possible when the battery is removed.

If no LED lights up after pressing the button for the battery charge indicator, then the battery is defective and must be replaced.

Rechargeable battery type GBA 18V... | GBA18V...



LED	Capacity
3 × continuous green light	60–100 %
2 × continuous green light	30–60 %
1 × continuous green light	5–30 %
1 × flashing green light	0–5 %

Battery model ProCORE18V... | EXPERT18V... | EXBA18V... | CORE18V...



LED	Capacity
5 × continuous green light	80–100 %
4 × continuous green light	60–80 %
3 × continuous green light	40–60 %
2 × continuous green light	20–40 %
1 × continuous green light	5–20 %
1 × flashing green light	0–5 %

Battery defect risk detection

EXPERT18V... | EXBA18V...

In addition to the state of charge of the rechargeable battery, the LEDs on the battery charge indicator can also indicate the risk of a battery defect.

To activate the function, press and hold the button for the battery charge indicator  for 3 seconds. The analysis of the battery is signalled by a moving light on the battery charge indicator. The result of is shown on the battery charge indicator.



1 LED: The rechargeable battery has a high defect risk. Performance and runtime may already be reduced. Replacing the rechargeable battery is recommended.



5 LEDs: The rechargeable battery is in good condition and has a low defect risk.

Please note: The rechargeable battery defect risk assessment works in a binary manner and offers a simplified status assessment, indicating either that the rechargeable battery is in good condition or that the rechargeable battery has an

increased defect risk. A percentage of the battery status is not shown.

Mounting and Operation

Action	Figure	Page
Items included ^{A)}	A	3
Folding out and fitting the handle	B-D	4-5
Setting the working height		
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Operation	H	7
- Inserting the isolator key		
- Switching on		
- Switching off		
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A) **This accessory is not part of the standard scope of delivery.**

Starting Operation

For Your Safety

- **Caution! Switch the garden tool off, disengage the isolator key and remove the rechargeable batteries**

Troubleshooting



Problem	Possible cause	Corrective measure
Motor will not start	Internal wiring of garden tool defective	Contact Bosch customer service
	One or two rechargeable batteries discharged	Charge the rechargeable batteries
	One or two rechargeable batteries too cold/too hot	Allow rechargeable batteries to cool down/warm up
	Grass too long	Max. allowed grass height is 20 cm with the largest cutting height setting
	The motor protection has been triggered	Allow the motor to cool down and set a larger cutting height
	Isolator key not inserted correctly/fully	Insert correctly
	Isolator key not completely turned to the ON position	Turn completely to the ON position
	One or two rechargeable batteries are not inserted correctly	Insert the rechargeable batteries so that contact is guaranteed

before you perform maintenance or cleaning work. The same applies if the switch cable is damaged, cut or entangled.

- **The blade continues to rotate for a few seconds after the machine is switched off.**
- **Caution: Do not touch the rotating blade.**
- **Use only the chargers listed in the technical data.** Only these battery chargers are matched to the lithium-ion batteries of your product.

Mulching function

Remove the grass bag and slide the mulch adapter into the ejection chute. Close the ejection flap.

Remove the mulch adapter when you use the grass bag again.

Working Advice

Cutting Capacity (Battery Operating Duration)

The cutting capacity (battery operating duration) depends on lawn properties, such as grass density, moisture content, grass length and height of cut.

Switching the machine on and off frequently during cutting will also reduce the cutting capacity (battery operating duration).

To improve the cutting capacity (battery operating duration), it is recommended to cut more frequently, increase the cutting height and walk at an appropriate pace.

Problem	Possible cause	Corrective measure
Garden tool operates intermittently	Handle is in storage position	Fold handle into operating position
	Internal wiring of garden tool defective	Contact Bosch customer service
	The motor protection has been triggered	Allow the motor to cool down and set a larger cutting height
Garden tool leaves an irregular cutting pattern and/or motor working with difficulty	Cutting height too low	Set a larger cutting height
	Blade blunt	Replace the blade (see figure L)
	Blockages possible	Switch garden tool off and remove isolator key Check the underside of the garden tool and unclog if necessary (always wear gardening gloves)
	Blade fitted the wrong way round	Fit the blade the right way round
The blade does not rotate after the garden tool has been switched on	Blade obstructed by grass	Switch garden tool off and disengage isolator key (see figure L) Remove the blockage (always wear gardening gloves)
	Blade nut/screw loose	Tighten blade nut/screw (25–30 Nm)
	Blade nut/screw loose	Tighten blade nut/screw (25–30 Nm)
Excessive vibrations/noise	Blade damaged	Replace the blade (see figure L)
	Possible blockage	Clean the fabric grass bag to clean the holes and improve the air flow.

Maintenance and Service

Maintenance, Cleaning and Storage

► **Before carrying out any work on the garden tool itself (e. g. maintenance, tool change, etc.) as well as during transport and storage, remove the batteries from the garden tool.** There is danger of injury when unintentionally actuating the On/Off switch.

► **For safe and proper working, always keep the product clean.**

To ensure safe and efficient operation, always keep the product and the ventilation slots clean.

Never spray the product with water.

Never immerse the product in water.

Store the product in a safe, dry place out of the reach of children.

Do not place other objects on the product.

Make sure that all of the nuts, bolts and screws are fitted securely to allow you to work safely with the product.

Check the product and replace any worn or damaged parts as a precaution.

Ensure replacement parts fitted are Bosch-approved. Do not modify the tool.

Do not modify the tool. Unauthorised modifications may affect the safety of your product and increase the risk of injury.

Battery Maintenance

Observe the following instructions and measures to guarantee optimum usage of the rechargeable batteries:

- Protect the rechargeable batteries against moisture and water.

- Only store the power tool and the rechargeable batteries in the temperature range of –20 °C to 50 °C. For example, do not leave the rechargeable batteries in a car in hot weather.
- Store the rechargeable batteries separately and not in the garden tool.
- Do not leave the rechargeable batteries in the garden tool in direct sunlight.
- The ideal storage condition for the rechargeable batteries is 5 °C.
- Occasionally clean the ventilation slots on the rechargeable batteries using a soft brush that is clean and dry.

A significantly reduced operating time after charging indicates that the rechargeable batteries have deteriorated and must be replaced.

After-Sales Service and Application Service

Malaysia

Tel.: (03) 79663194

You can find the link to our service addresses and warranty conditions on the last page.

In all correspondence and spare parts orders, please always include the 10-digit article number given on the nameplate of the product.

Disposal

Power tools, rechargeable batteries, accessories and packaging should be sorted for environmental-friendly recycling.



Do not dispose of power tools and batteries/rechargeable batteries into household waste!



仔细检查要使用该园艺设备的区域是否有野生动物和家养动物。在本机运行期间可能会使野生动物和家养动物受伤。认真检查草坪修整/修边机的使用区域，并清除所有石头、木棍、铁丝、骨头和异物。使用草坪修整/修边机时，确保没有野生动物、家养动物或藏在浓密草丛中的树桩。

中文

安全规章

割草机图标说明



一般性警告。



请阅读使用说明书。



要确保站在附近的人，不会被飞溅的碎片割伤。



警告：远离围观人员。



警告：请勿将手和脚靠近刀片。



警告：在进行保养作业前应拆下充电电池。



警告：在进行维护工作前，请拆除锁定装置。



不适用。



请等待园艺设备的所有部件完全停止运转后再触碰。园艺设备关闭后刀片仍会继续旋转，可能造成危害。



请勿在雨中使用。



不适用。



不要使用高压清洁机或花园浇水软管清洁该园艺设备。

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”是指市电驱动（有线）电动工具或电池驱动（无线）电动工具。

工作场地的安全

- ▶ 保持工作场地清洁和明亮。杂乱和黑暗的场地会引发事故。
- ▶ 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。
- ▶ 操作电动工具时，远离儿童和旁观者。注意力不集中会使你失去对工具的控制。

电气安全

- ▶ 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。
- ▶ 避免人体接触接地表面，如管道、散热片和冰箱。如果你身体接触接地表面会增加电击风险。
- ▶ 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。
- ▶ 不得滥用软线。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。
- ▶ 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。
- ▶ 如果无法避免在潮湿的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。

人身安全

- ▶ 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。
- ▶ 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。
- ▶ 防止意外启动。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。

- ▶ 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。
- ▶ 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。
- ▶ 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、佩饰或长发可能会卷入运动部件。
- ▶ 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。
- ▶ 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。

电动工具使用和注意事项

- ▶ 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。
- ▶ 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。
- ▶ 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。
- ▶ 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。
- ▶ 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。
- ▶ 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。
- ▶ 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。
- ▶ 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。

电池式工具使用和注意事项

- ▶ 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。
- ▶ 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。
- ▶ 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。电池组端部短路可能会引起燃烧或着火。
- ▶ 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。

- ▶ 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。
- ▶ 不要将电池包暴露于火或者高温中。电池包暴露于火或高于 130 °C 的高温中可能导致爆炸。
- ▶ 遵守所有充电说明，给电池组或工具充电时不要超出说明中规定的温度范围。错误充电或温度超出规定的范围可能会损坏电池并提高着火的风险。

维修

- ▶ 由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。
- ▶ 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。

割草机安全警告

- ▶ 不要在恶劣的天气条件下使用割草机，尤其有雷电风险的时候。这会降低被雷击的风险。
- ▶ 彻底检查要使用割草机的区域是否有野生动物。野生动物在割草机操作过程中可能会受到伤害。
- ▶ 彻底检查要使用割草机的区域并清除所有石头、树枝、线缆、骨头和其他异物。抛射物可能会造成人身伤害。
- ▶ 使用割草机前，总是目视检查确认刀片和刀片组件没有磨损或损坏。磨损或损坏的部件会增加伤害的风险。
- ▶ 经常检查集草器是否磨损或变差。磨损或损坏的集草器可能会增加人身伤害的风险。
- ▶ 保持护罩在正确的位置。护罩必须正确安装并处于工作状态。护罩松动、损坏或功能不正常可能会导致人身伤害。
- ▶ 保持所有冷却进风口没有碎屑。进风口堵塞和碎屑可能导致过热或起火风险。
- ▶ 操作割草机时，始终穿着防滑防护鞋。请勿赤脚或穿着露趾凉鞋操作割草机。这会减少因接触运动刀片而对脚造成伤害的机会。
- ▶ 操作割草机时，始终穿着长裤。裸露的皮肤会增加被抛射物伤害的可能。
- ▶ 不要在潮湿的草地上操作割草机。步行，不要奔跑。这会降低可能导致人身伤害的滑倒和跌倒的风险。
- ▶ 不要在过度陡峭的斜坡上操作割草机。这会降低可能导致人身伤害的滑倒和跌倒的风险。
- ▶ 在斜坡上工作时，始终确保立足点。始终横向在坡面作业，切勿沿斜坡向上或向下并且在改变方向时要格外小心。这会降低失控、滑倒和跌倒可能导致人身伤害的风险。
- ▶ 倒退或将割草机拉向你时要格外小心。始终注意周围的环境。这会降低操作期间绊倒的风险。
- ▶ 请勿触摸仍在运动的刀片和其他危险运动部件。这会降低运动部件造成伤害的风险。

- ▶ **清理堵塞草料或清洁割草机时，确保所有电源开关均已关闭且电池包已断开。** 割草机意外运行可能会导致严重的人身伤害。

其他安全规章

- ▶ **该修剪机含有磁铁 - 请勿将磁铁靠近植入物和其他医疗设备，例如心脏起搏器或胰岛素泵，以及磁性数据载体和磁敏感设备。** 磁铁产生的磁场可能会影响医疗设备的功能，或导致数据的不可逆丢失。
- ▶ 在调整设备时，注意不要让手指被夹在运动的刀片和机器的固定部件之间。
- ▶ 在碰到硬物时或在出现强烈振动时，检查产品是否损坏。
- ▶ 在存放前，请务必让产品冷却。
- ▶ 存放前请清空集草篮。

操作

- ▶ 当需要倾斜割草机进行运输、跨越未铺草的区域以及将割草机运送至或从割草区域时，刀片必须停止转动。
- ▶ 启动或发动电机时，不要倾斜割草机。
- ▶ 按照操作手册所述启动割草机，并确保双脚与旋转部件保持足够的距离。
- ▶ 不要将手和脚靠近或伸到旋转部件下方。
- ▶ 在操作割草机时，请远离出草口。
- ▶ 切勿在电机运转时提起或搬运割草机。
- ▶ 在将手柄折叠到存放位置时，请检查电缆位置，以免损坏或夹住电缆。
- ▶ 当手柄翻折到存放位置时，割草机无法启动。
- ▶ 如果割草机水平存放，请确保取出充电电池，关闭电路断路器。
- ▶ 如果割草机垂直存放，请确保刀片已停止转动、充电电池已取出且电路断路器已关闭。
- ▶ 仅使用提手提起割草机。请小心使用提手。

松开电路断路器

- 在运输割草机期间。
- 离开园艺设备时。
- 清除堵塞之前。
- 检查、清洁或操作园艺设备时。
- 碰撞异物后，立即检查园艺设备是否损坏，必要时更换刀片。
- 如果园艺设备开始不寻常地振动（立即检查）。

最佳的蓄电池使用方式

- ▶ **切勿打开充电电池。** 可能造成短路。



保护蓄电池免受高温（例如长期日照），火焰，水和湿气的侵害。否则有爆炸危险。



- ▶ 在不需要使用本设备时，应使闲置的充电电池远离回形针、硬币、钥匙、钉子、螺栓或其它可引

起触点跨接的金属小物件。电池触点之间短路可导致烫伤或火灾。

- ▶ **损坏的和被滥用的蓄电池会冒出蒸气。** 确保工作场所空气流通，感觉不适得即刻就医。蒸气会刺激呼吸管道。
- ▶ **只能将此充电电池用在制造商的产品中。** 这样才能确保充电电池不会过载。
- ▶ **钉子、螺丝刀等尖锐物品或外力作用可能会损坏充电电池。** 有可能出现内部短路、蓄电池燃烧、发出烟雾、爆炸或过热。
- ▶ **勿造成蓄电池短路。** 否则有爆炸危险。
- ▶ 不定时地使用柔软，清洁而且干燥的毛刷清洁蓄电池的通气孔。
- ▶ **仅使用博世批准的充电器为充电电池充电。**

图标

以下符号可以帮助您阅读和了解本使用说明书。请牢记各符号和它们的代表意思。正确瞭解各符号的含义，可帮助您更有把握更安全地操作本产品。

图标	含义
	移动方向
	反应方向
	佩戴防护手套
	穿着安全鞋。
	重量
	接通
	关闭
	允许的行为
	禁止的行为
	可听到的噪音
	附件/备件

产品和性能介绍



请阅读所有安全规章和指示。不遵守安全规章和操作说明可能会造成触电、着火和/或重伤。
请参阅操作手册后附的插图。

按照规定使用

本园艺设备专用于草坪修剪。

本园艺设备不可用于树篱修剪、修边、粉碎等用途。

本园艺设备用于地面高度的草坪修剪。

技术参数

割草机		GRA 18V2-46
物品号		3 600 HC8 0..
额定电压 ^{A)}	伏特	36伏特 (2 x 18伏特)
切割宽度	厘米	46
切割高度	毫米	30–70
集草袋容量	升	60
重量符合IEC 62841-1/IEC 62841-4-3 ^{A)}	公斤	27.7
序列号		参见园艺设备上的型号铭牌
充电时建议的环境温度	摄氏度	0至+35
工作时和存放时允许的环境温度 ^{B)}	摄氏度	-20至+50
兼容的充电电池		GBA18V... GBA 18V... ProCORE18V... EXPERT18V... EXBA18V... CORE18V...
推荐的确保全功率的充电电池		GBA 18V... ≥ 4.0安培小时 ProCORE18V... ≥ 4.0安培小时 EXPERT18V...
推荐使用的充电器		GAL18... GAL 18... GAL 36... GAL12V/18... GAL 12V/18... GAX 18... EXAL18...

A) 取决于所使用的充电电池

B) 温度<0摄氏度时功率受限

充电电池

Bosch也销售不带充电电池的充电式电动工具。您可以在包装上查看电动工具的供货范围内是否包含充电电池。

为充电电池充电

► 请只使用在技术参数中列出的充电器。只有这些充电器才适用于本电动工具上的锂离子电池。

提示：由于国际运输规定，锂离子电池以部分充电状态出厂。为确保充电电池的全部性能，首次使用前请将充电电池完全充满。

装入充电电池

► 本设备仅设计为使用两块充电电池运行，如果其中一块充电电池完全放电，则无法工作。请始终使用电量相同的充电电池，切勿将满电与部分充电的充电电池混用，因为运行时间总是由电量最低的充电电池决定。

提示：如果使用不合适的充电电池，可能会导致故障或损坏设备。

装入已充满电的充电电池。确保充电电池完全插入。

将已充满电的充电电池滑入电池座，直至卡入到位。

取出充电电池

充电电池设有两级锁定装置，以防在无意中按下电池解锁按钮时掉落。只要充电电池装在电动工具中，就会通过弹簧保持就位。

如需取下充电电池，则请按压解锁按钮，然后拔出充电电池。在此过程中请勿过度用力。

充电电池电量指示灯

提示：并非每种充电电池型号均具备电量指示灯。充电电池电量指示灯的绿色LED灯显示充电电池的电量。基于安全原因，只能在电动工具静止时检查充电电池的电量。

按压充电电量指示灯按键或，来显示充电电量。也可以在充电电池取下时操作。

如果按压充电电量指示灯按键后没有LED灯亮起，则说明充电电池损坏，必须进行更换。

充电电池型号GBA 18V... | GBA18V...



LED	电量
3个绿灯长亮	60–100 %
2个绿灯长亮	30–60 %
1个绿灯长亮	5–30 %
1个绿灯闪烁	0–5 %

充电电池类型 ProCORE18V... | EXPERT18V... | EXBA18V... | CORE18V...



LED	电量
5个绿灯长亮	80–100 %
4个绿灯长亮	60–80 %
3个绿灯长亮	40–60 %
2个绿灯长亮	20–40 %
1个绿灯长亮	5–20 %
1个绿灯闪烁	0–5 %

充电电池损坏风险识别

EXPERT18V... | EXBA18V...

充电电池电量指示灯的LED除了可以显示充电电池电量之外，还可以显示充电电池损坏的风险。

如需激活该功能，按住电量指示灯按钮3秒钟。充电电池的分析通过充电电池电量指示灯顺序发光来显示。结果以充电电池电量指示灯显示。

 **1个LED：**充电电池的损坏风险较高。功率和运行时间可能已经降低。建议更换充电电池。

 **5个LED：**充电电池处于良好状态，损坏风险较低。

请注意：充电电池损坏风险评估功能分两档运行，提供简单的状态评价。充电电池要么被评价为状态良好，要么就是具有较高的损坏风险。不显示电池状态的百分比。

安装和操作

操作目标	图片	页面
供货范围 ^{A)}	A	3

操作目标	图片	页面
展开并安装手柄	B-D	4–5
调整工作高度		
装入/取下集草袋	E	5
调节切割高度	F	6
装入两块充电电池	G	6
运行	H	7
- 插入电路断路器		
- 接通		
- 关闭		
- 移除电路断路器		
取出两块充电电池	I	8
“割草”工作提示	J	8
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刀片维护/刀片更换	L	9
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选择附件	N	11

A) 该附件并不包含在基本的供货范围中。

调试

为了您的安全

- ▶ **注意！**在进行维护或清洁工作前，请关闭园艺设备、松开电路断路器并取出充电电池。如果开关电缆损坏、被切断或缠绕，也应采取相同措施。
- ▶ 园艺设备关闭后，刀片仍会继续旋转几秒钟。
- ▶ **注意：**不要触摸旋转的切割刀片。
- ▶ 请您仅使用技术参数中列出的充电器。只有这些充电器才适用于本产品上所用的锂离子充电电池。

碎草功能

取下集草袋，将碎草适配器插入出草口。关闭出草挡板。

当重新使用集草袋时，请取下碎草适配器。

工作提示

切割性能（充电电池运行时间）

切割性能（充电电池运行时间）取决于草坪的特性，例如草的密度、湿度、长度以及切割高度。在割草过程中频繁开关园艺设备也会降低切割性能（充电电池运行时间）。

为了优化切割性能（充电电池运行时间），建议更频繁地割草、提高切割高度并以适当的速度行走。

故障查找



故障症状	可能的原因	解决措施
电机无法启动	园艺设备内部布线故障	请联系博世客户服务部门
	一块或两块充电电池已放电	请为充电电池充电
	一块或两块充电电池过冷/过热	加热/冷却充电电池
	草太长	最大允许草高为20厘米（在最大切割高度设置下）
	电机保护装置已触发	让电机冷却，并将切割高度调高
	电路断路器未正确/未完全装入	正确装入
	电路断路器未完全转至位置ON	完全转至位置ON
	一块或两块充电电池未正确插入	正确插入充电电池，以确保接触正常
	手柄处于存放位置	将手柄翻折到操作位置
园艺设备运行时断断续续	园艺设备内部布线故障	请联系博世客户服务部门
	电机保护装置已触发	让电机冷却，并将切割高度调高
园艺设备留下不均匀的切割效果和/或电机运转滞涩	切割高度过低	将切割高度调高
	刀片变钝	更换刀片（参见插图L）
	可能存在阻塞	关闭园艺设备，移除电路断路器
		检查园艺设备底部并在必要时清理（始终佩戴园艺手套）
接通园艺设备后刀片不转动	刀片安装方向错误	按正确方向安装刀片
	刀片被草卡住	关闭园艺设备，松开电路断路器（参见插图L）
		清除堵塞物（始终佩戴园艺手套）
强烈的振动/噪音	刀片螺母/螺栓松动	拧紧刀片螺母/螺栓（25-30牛米）
	刀片损坏	更换刀片（参见插图L）
集草袋未满	可能存在阻塞	清洁布质集草袋，疏通孔洞并改善气流。

维修和服务

维护，清洁和储存

- ▶ 在园艺设备上进行所有作业（如维护、换刀等）以及运输和存放时，请将充电电池从园艺设备中取出。如果不小心按下起停开关，则可能造成受伤。

- ▶ 本产品要保持清洁，这样才能更好更安全地工作。

保持产品和通风孔清洁，以便能够良好、安全地工作。

切勿用水喷洒本产品。

切勿将本产品浸入水中。

请将本产品存放在安全的地方，必须保持干燥，并且要放在儿童接触不到的地方。

请勿在本产品上放置任何其他物品。

确保所有螺母、螺栓和螺丝都紧固安装，以保证产品能安全使用。

检查本产品，为了安全起见，要更换已磨损或损坏的部件。

确保待更换部件来自博世。不得改动本设备。

不得改装本设备。 未经授权的改装可能影响产品安全并增加受伤风险。

蓄电池-保养

为确保电池的最佳使用效果，请注意以下事项和措施：

- 保护充电电池，避免湿气和水分渗入。
- 电动工具和充电电池必须储存在-20摄氏度至50摄氏度的环境中。夏天不得将充电电池搁置在汽车中。
- 请单独存放充电电池，不要将其放置在园艺设备中。
- 请勿让充电电池在直射阳光下留在园艺设备中。

- 充电电池的理想存放温度是5摄氏度。
- 不定时地使用柔软、清洁而且乾燥的毛刷清洁充电电池的通气孔。

充电后如果充电电池的使用时间明显缩短，代表充电电池已经损坏，必须更换新的充电电池。

客户服务和应用咨询

中国大陆

电话：400 826 8484-3-2

制造商地址：

Robert Bosch Power Tools GmbH
罗伯特·博世电动工具有限公司

70538 Stuttgart / GERMANY

70538 斯图加特 / 德国

关于服务地址和保修条件的链接请查看最后一页。
询问和订购备件时，务必提供机器铭牌上标示的10位数物品代码。

处理废弃物

必须以符合环保的方式，回收再利用损坏的电动工具、充电电池、附件和废弃的包装材料。



不可以把电动工具和充电电池/蓄电池丢入一般的家庭垃圾中！

产品中有害物质的名称及含有的信息表

部件名称	有害物质									
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr(VI))	多溴联苯 (PBBs)	多溴二苯 醚 (PBDEs)	邻苯二甲酸二 正丁酯 (DBP)	邻苯二甲酸二 异丁酯 (DIBP)	邻苯二甲酸丁 苄酯 (BBP)	邻苯二甲酸二(2-乙 基)己酯 (DEHP)
外壳的金属部分	○	○	○	○	○	○	○	○	○	○
外壳的非金属部分	○	○	○	○	○	○	○	○	○	○
机械传动机构	○	○	○	○	○	○	○	○	○	○
电机组件	○	○	○	○	○	○	○	○	○	○
控制组件	X	○	○	○	○	○	○	○	○	○
附件	○	○	○	○	○	○	○	○	○	○
配件	○	○	○	○	○	○	○	○	○	○
连接件	○	○	○	○	○	○	○	○	○	○
电源线①	○	○	○	○	○	○	○	○	○	○
电池系统②	X	○	○	○	○	○	○	○	○	○

注1：

○：表示该有害物质在该部件所有均质材料中的含量均不超出电器电子产品有害物质限制使用国家标准要求。

x：表示该有害物质至少在该部件的某一均质材料中的含量超出电器电子产品有害物质限制使用国家标准要求。

注2：

以上未列出的部件，表明其有害物质含量均不超出电器电子产品有害物质限制使用国家标准要求。

①适用于采用电源线连接供电的产品。

②适用于采用充电电池供电的产品。

产品环保使用期限内的使用条件参见产品说明书。

繁體中文

安全注意事項

割草機符號說明



一般性警告。



請閱讀使用說明書。



要確保站在附近的人，不會被飛濺的碎片割傷。



警告：請讓周圍人員遠離。



警告：將手腳遠離刀片。



警告：在進行保養作業前應拆下鋰電池。



警告：請在維護作業前移除鎖定裝置。



不適用。



在觸摸前，請等到園藝機具的所有部件都已完全停止。本園藝機具在關閉後，刀片仍繼續轉動並可能導致受傷。



請勿在雨中使用。



不適用。



不要使用高壓清潔機或花園澆水軟管清潔該花園機器。



仔細檢查要使用該花園機器的區域是否有野生動物和家養動物。在本機運行期間可能會使野生動物和家養動物受傷。

認真檢查草坪修整/修邊機的使用區域，並清除所有石頭、木棍、鐵絲、骨頭和異物。使用草坪修整/修邊機時，確保沒有野生動物、家養動物或藏在濃密草叢中的樹樁。

電動工具一般安全注意事項

警告

請詳讀工作臺及電動工具的所有安全警告與使用說明。若不

遵照以下列出的指示，將可能導致電擊、著火和/或人員重傷。

保存所有警告和說明書以備查閱。

在所有警告中，「電動工具」此一名詞泛指：以市電驅動的（有線）電動工具或是以電池驅動的（無線）電動工具。

工作場地的安全

- ▶ 保持工作場地清潔和明亮。混亂和黑暗的場地會引發事故。
- ▶ 不要在易爆環境，如有易燃液體、氣體或粉塵的環境下操作電動工具。電動工具產生的火花會點燃粉塵或氣體。
- ▶ 讓兒童和旁觀者離開後操作電動工具。注意力不集中會使您失去對工具的控制。

電氣安全

- ▶ 不得將電動工具暴露在雨中或潮濕環境中。水進入電動工具將增加電擊危險。

人身安全

- ▶ 保持警覺，當操作電動工具時關注所從事的操作並保持清醒。當您感到疲倦，或在有藥物、酒精或治療反應時，不要操作電動工具。在操作電動工具時瞬間的疏忽會導致嚴重人身傷害。
- ▶ 使用個人防護裝置。始終佩戴護目鏡。安全裝置，諸如適當條件下使用防塵面具、防滑安全鞋、安全帽、聽力防護等裝置能減少人身傷害。
- ▶ 防止意外起動。確保開關在連接電源和/或電池盒、拿起或搬運工具時處於關閉位置。手指放在已接通電源的開關上或開關處於接通時插入插頭可能會導致危險。
- ▶ 在電動工具接通之前，拿掉所有調節鑰匙或扳手。遺留在電動工具旋轉零件上的扳手或鑰匙會導致人身傷害。
- ▶ 手不要伸展得太長。時刻注意立足點和身體平衡。這樣在意外情況下能很好地控制電動工具。
- ▶ 著裝適當。不要穿寬鬆衣服或佩戴飾品。讓您的衣物及頭髮遠離運動部件。寬鬆衣服、佩飾或長髮可能會捲入運動部件中。
- ▶ 如果提供了與排屑、集塵設備連接用的裝置，要確保他們連接完好且使用得當。使用這些裝置可減少塵屑引起的危險。
- ▶ 切勿因經常使用工具所累積的熟練感而過度自信，輕忽工具的安全守則。任何一個魯莽的舉動都可能瞬間造成人員重傷。

電動工具使用和注意事項

- ▶ 不要濫用電動工具，根據用途使用適當的電動工具。選用適當設計的電動工具會使您工作更有效、更安全。
- ▶ 如果開關不能開啟或關閉工具電源，則不能使用該電動工具。不能用開關來控制的電動工具是危險的且必須進行修理。

- ▶ 在進行任何調整、更換配件或貯存電動工具之前，必須從電源上拔掉插頭並 / 或取出電池盒。這種防護性措施將減少工具意外起動的危險。
- ▶ 將閒置不用的電動工具貯存在兒童所及範圍之外，並且不要讓不熟悉電動工具或對這些說明不瞭解的人操作電動工具。電動工具在未經培訓的用戶手中是危險的。
- ▶ 保養電動工具與配備。檢查運動件是否調整到位或卡住，檢查零件破損情況和影響電動工具運行的其他狀況。如有損壞，電動工具應在使用前修理好。許多事故由維護不良的電動工具引發。
- ▶ 保持切割刀具鋒利和清潔。保養良好的有鋒利切削刃的刀具不易卡住而且容易控制。
- ▶ 按照使用說明書，考慮作業條件和進行的作業來使用電動工具、配件和工具的刀頭等。將電動工具用於那些與其用途不符的操作可能會導致危險。
- ▶ 把手及握持區應保持乾燥、潔淨，且不得沾染任何油液或油脂。易滑脫的把手及握持區將無法讓您在發生意外狀況時安全地抓緊並控制工具。

電池式工具使用和注意事項

- ▶ 只用製造商規定的充電器充電。將適用於某種電池盒的充電器用到其他電池盒時會發生著火危險。
- ▶ 只有在配有專用電池盒的情況下才使用電動工具。使用其他電池盒會發生損壞和著火危險。
- ▶ 當電池盒不用時，將它遠離其他金屬物體，例如回形針、硬幣、鑰匙、釘子、螺絲或其他小金屬物體，以防一端與另一端連接。電池端部短路會引起燃燒或火災。
- ▶ 在濫用條件下，液體會從電池中濺出；避免接觸。如果意外碰到了，用水沖洗。如果液體碰到了眼睛，還要尋求醫療幫助。從電池中濺出的液體會發生腐蝕或燃燒。
- ▶ 請勿使用已受損或經改裝的電池盒。已受損或經改裝的電池組可能出現無法預期的反應，進而導致著火、爆炸或造成人員受傷。
- ▶ 勿讓電池盒或工具靠近火源或暴露於異常溫度環境中。若是靠近火源或暴露在超過 130 °C 的環境中可能造成爆炸。
- ▶ 請完全遵照所有的充電說明，電池盒或工具的溫度若是超出指示的規定範圍，請勿進行充電。不當充電或是未在規定的溫度範圍內進行充電，皆可能造成電池損壞並面臨更高的著火風險。

檢修

- ▶ 將您的電動工具送交專業維修人員，必須使用同樣的備件進行更換。這樣將確保所維修的電動工具的安全性。
- ▶ 請勿自行檢修受損的電池盒。電池組應交由製造商或是獲得授權的服務供應商來進行檢修。

割草機之安全注意事項

- ▶ 請勿在天氣條件不佳時使用割草機，尤其在有雷擊危險的情況下。如此可減少遭受雷擊的風險。
- ▶ 徹底檢查割草機的使用區域是否有野生動物。割草機在運作過程中可能會傷及野生動物。

- ▶ 徹底檢查割草機的使用區域，並移除所有石頭、木棍、鐵絲、骨頭和異物。甩出的物品可能造成人員傷害。
- ▶ 在使用割草機前，請務必進行目視檢查，以確保刀片和刀片單元未受磨損或損壞。磨損或損壞的部件會增加受傷風險。
- ▶ 經常檢查集草容器是否磨損或損壞。磨損或損壞的集草容器可能提高受傷的風險。
- ▶ 請安裝所有防護裝置。防護裝置的安裝必須功能正常和正確。鬆脫、損壞或功能不正常的防護裝置可能會導致受傷。
- ▶ 保持所有通氣孔不受髒污。通氣孔堵塞和髒污可能會導致過熱或火災危險。
- ▶ 操作割草機時，請務必穿著防滑防護鞋。不可赤腳或穿露趾拖鞋操作割草機。這可減少腳部與活動刀片接觸的受傷風險。
- ▶ 操作割草機時，請務必穿著長褲。未受保護的皮膚會提高因甩出物體而受傷的風險。
- ▶ 請勿在潮濕的草地上操作割草機。以行走方式操作，切勿奔跑。這可降低因滑倒或跌倒而導致受傷的風險。
- ▶ 請勿在非常陡峭的斜坡上操作割草機。這可降低因失去控制、滑倒或跌倒而導致受傷的風險。
- ▶ 在斜坡上作業時請務必站穩，始終橫向斜坡操作，切勿以上坡或下坡方向，並且在改變方向時要特別小心。這可降低因失去控制、滑倒或跌倒而導致受傷的風險。
- ▶ 將割草機向後移動或將其拉向自身時，請特別小心。請務必注意您的周圍環境。這可降低您在操作過程中的絆倒風險。
- ▶ 不可碰觸仍在運動中的刀片和其他危險的活動零件。如此可降低運動零件造成的受傷危險。
- ▶ 在移除卡住材料或清潔割草機時，請確保所有開關都處於關閉位置，並且已取下充電電池。割草機的意外運作可能會導致嚴重傷害。

其他安全注意事項

- ▶ 該綠籬修剪機含有磁鐵 - 請勿將磁鐵靠近植入物和其他醫療設備，例如心臟起搏器或胰島素泵，以及磁性數據載體和磁敏感設備。磁鐵產生的磁場可能會影響醫療設備的功能，或導致數據的不可逆丟失。
- ▶ 在設定裝置時，請注意不可讓手指夾入機器的活動刀片和固定零件之間。
- ▶ 在碰到硬物時或在出現強烈振動時，檢查產品是否損壞。
- ▶ 請務必在存放前讓本產品降溫。
- ▶ 請在存放前清空集草籃。

操作

- ▶ 當您須翻傾園藝機具以進行搬運、穿過未植草區域、以及將其搬運至修剪區域或從修剪區域搬回時，刀片必須處於靜止狀態。
- ▶ 啟動或發動馬達時，請勿翻傾園藝機具。
- ▶ 依照操作說明書中所述啟動園藝機具，並確保您的腳部遠離旋轉部件。

- ▶ 請勿將手或腳移向旋轉部件的附近或下方。
- ▶ 使用園藝機具時，請與排出區保持距離。
- ▶ 引擎運轉時，切勿抬起或搬運園藝機具。
- ▶ 將握把折合到存放位置時，請檢查電線的位置，以免損壞或夾住電線。
- ▶ 若將握把折疊到存放位置，割草機將無法啟動。
- ▶ 將割草機以水平位置存放時，請確保已取出充電電池，並已配備斷路器。
- ▶ 將割草機以垂直位置存放時，請確保刀片已靜止且已取出充電電池，並已配備斷路器。
- ▶ 僅可使用提把抬起園藝機具。小心握住提把。

鬆脫斷路器

- 在搬運割草機期間。
- 每當您離開園藝機具時。
- 清除堵塞之前。
- 當您檢查、清潔或操作園藝機具時。
- 碰撞異物後；請立即檢查園藝機具是否有任何損壞，必要時得更換刀片。
- 當園藝機具開始不尋常地震動時（立即檢查）。

最佳的蓄電池使用方式

- ▶ 切勿拆開充電電池。可能造成短路。



保護蓄電池免受高溫（例如長期日照），火焰，水和濕氣的侵害。否則有爆炸危險。



- ▶ 在不需要使用本設備時，應使閒置的鋰電池遠離回形針、硬幣、鑰匙、釘子、螺栓或其它可引起觸點跨接的金屬小物件。電池觸點之間短路可導致燙傷或火災。
- ▶ 損壞的和被濫用的蓄電池會冒出蒸氣。確保工作場所空氣流通，感覺不適時即刻就醫。蒸汽會刺激呼吸道。
- ▶ 僅可使用產品的原廠充電電池。如此才可依照產品提供過載保護。
- ▶ 尖銳物品（例如釘子或螺絲起子）或是外力皆有可能造成充電電池損壞。進而導致內部短路而發生電池起火、冒煙、爆炸或過熱等事故。
- ▶ 勿造成蓄電池短路。否則有爆炸危險。
- ▶ 不定時地使用柔軟，清潔而且乾燥的毛刷清潔蓄電池的通氣孔。
- ▶ 僅可使用博世核可的充電器對充電電池進行充電。

技術性數據

割草機		GRA 18V2-46
產品機號		3 600 HC8 0..
額定電壓 ^{A)}	V	36 V (2 x 18 V)
切割寬度	cm	46
切割高度	mm	30-70
集草袋容量	l	60

符號

以下符號可以幫助您閱讀和了解本使用說明書。請牢記各符號和它們的代表意思。正確瞭解各符號的含義，可幫助您更有把握更安全地操作本產品。

符號	意義
	移動方向
	反應方向
	配戴防護手套
	穿著安全的鞋子。
	重量
	啟動
	關閉
	允許的行為
	禁止的行為
CLICK!	可聽到的噪音
	配件/備件

產品和性能介紹



請詳讀所有安全注意事項和指示。不遵守安全注意事項和指示可能會造成觸電、失火和/或重傷。
請留意操作說明書後面的圖示。

預定用途

本園藝機具專為修剪草坪而設計。
本園藝機具不適用於修剪樹籬、修整和切碎等。
本園藝機具專為修剪地面高度的草坪而設計。

割草機		GRA 18V2-46
根據 IEC 62841-1/ IEC 62841-4-3 標準之重量 ^{A)}	kg	27.7
序號		請參考園藝機具上的產品銘牌
充電狀態下的建議環境溫度	°C	0 ... +35
操作狀態下及存放狀態下的容許環境溫度 ^{B)}	°C	-20 ... +50
相容的充電電池		GBA18V... GBA 18V... ProCORE18V... EXPERT18V... EXBA18V... CORE18V...
為確保最大效能而建議使用的充電電池		GBA 18V... ≥ 4.0 Ah ProCORE18V... ≥ 4.0 Ah EXPERT18V...
建議使用的充電器		GAL18... GAL 18... GAL 36... GAL12V/18... GAL 12V/18... GAX 18... EXAL18...

A) 視所使用的充電電池而定

B) 溫度 <0 °C 時，性能受限

充電電池

Bosch 亦販售不含充電電池的充電式電動工具。可以從外包裝看出電動工具的供貨範圍是否包括電池。

為充電電池充電

- ▶ **只能選用技術性數據裡所列出的充電器。**僅有這些充電器適用於電動工具所使用的鋰離子充電電池。

提示：由於國際運輸法規，鋰離子充電電池在出貨時為部分充電狀態。首度使用之前，請先將充電電池充飽電，以確保充電電池的完整功率。

裝入充電電池

- ▶ **本裝置專為搭配 2 個充電電池的操作而設計，如果其中一個充電電池已耗盡，則無法運作。請始終使用相同充電量的充電電池，切勿將完全充電和部分充電的充電電池混合使用，因為運行時間一律由充電最少的充電電池決定。**

提示：若使用不合適的充電電池，可能會導致裝置故障或損壞。

裝入已充電的充電電池。請確保充電電池已完整裝入。

將已充電的充電電池推入電池固定座，直到其卡入就位。

取出充電電池

充電電池具備 2 個鎖定等級，以防意外按下電池解鎖按鈕時電池掉落。只要將充電電池插入電動工具，它們就被彈簧固定到位。

若要取出充電電池，請按下電池解鎖按鈕並將電池拉出。**此時不可用力過度。**

充電電池的電量指示器

提示：並非所有的充電電池類型都有電量指示器。充電電池的電量指示器透過綠色 LED 燈告知充電電池的目前電量。基於安全顧慮，務必在電動工具完全靜止時才能檢查充電電池的電量。

按一下電量指示器按鈕  或 ，即可顯示目前的電量。即使已取出充電電池，此項功能仍可正常運作。

按壓電量顯示按鈕後，LED 燈若未亮起，即表示充電電池故障，必須予以更換。

充電電池型號 GBA 18V... | GBA18V...



LED	容量
3 顆綠燈持續亮起	60–100 %
2 顆綠燈持續亮起	30–60 %
1 顆綠燈持續亮起	5–30 %
1 顆綠燈呈閃爍狀態	0–5 %

充電電池型號 ProCORE18V... | EXPERT18V... | EXBA18V... | CORE18V...



LED	容量
5 顆綠燈持續亮起	80–100 %
4 顆綠燈持續亮起	60–80 %
3 顆綠燈持續亮起	40–60 %
2 顆綠燈持續亮起	20–40 %
1 顆綠燈持續亮起	5–20 %
1 顆綠燈呈閃爍狀態	0–5 %

電池缺陷風險檢測

EXPERT18V... | EXBA18V...

電池電量指示器的 LED 燈除了顯示電池的充電狀態外，還可顯示電池缺陷的風險。

要啟用此功能，請按住電量指示器按鈕  3 秒鐘。電池電量指示器上的跑動燈號會顯示電池的分析結果。結果會顯示在電池電量指示器上。

 **1 個 LED 燈：**電池有很高的缺陷風險。效能和運作時間可能已經降低。建議更換電池。

 **5 個 LED 燈：**充電電池狀況良好，故障風險低。

請注意：電池缺陷風險評估分為兩個階段，並提供簡化的狀況評估。電池會被評估為狀況良好或缺陷風險增加。不會顯示電池狀況的百分比。

安裝和操作

操作目的	圖片	頁次
供貨範圍 ^{A)}	A	3
翻起和安裝握把架	B – D	4 – 5
設定工作高度		
裝入/取下集草袋	E	5
設定切割高度	F	6
裝入兩個充電電池	G	6

故障排除



徵狀	可能原因	解決方式
馬達不起動	園藝機具內部線路故障	請聯繫博世客戶服務中心
	一個或兩個充電電池已耗盡	為充電電池進行充電
	一個或兩個充電電池過冷/過熱	加溫/冷卻電池

操作目的	圖片	頁次
操作方式 - 插入斷路器 - 啟動 - 關閉 - 取下斷路器	H	7
取出兩個充電電池	I	8
作業提示「割草」	J	8
作業提示「覆蓋」	K	9
刀片維護/刀片更換	L	9
存放方式	M	10
選擇配件	N	11

A) 所述之配件並不包含在基本的供貨範圍中。

首次操作

為了您的安全

- ▶ **注意！**進行維護或清潔作業前，請關閉園藝機具、鬆脫斷路器，並取出充電電池。這也適用於關閉電線損壞、切斷或纏繞時的情況。
- ▶ 在園藝機具關閉後，刀片仍會繼續轉動數秒鐘。
- ▶ **小心：**不可觸摸轉動的切割刀片。
- ▶ **只能選用技術性數據裡所列出的充電器。**僅有這些充電器適用於產品所使用的鋰離子充電電池。

覆蓋功能

取出集草袋並將覆蓋轉接器推入排料口。關閉排料蓋。

若要再度使用集草袋，請移除覆蓋轉接器。

作業注意事項

切割效能（充電電池運作時間）

切割效能（充電電池運作時間）取決於草坪的特性，例如草的密度、濕度、草的長度和切割高度。在修剪過程中經常啟動和關閉園藝機具也會降低切割效能（充電電池運作時間）。

為優化切割效能（充電電池運作時間），我們建議較頻繁地割草，增加切割高度，並以適合的速度行走。

徵狀	可能原因	解決方式
	草太長	使用最高切割高度設定的最大許可草高為 20 cm
	馬達保護裝置已觸發	讓馬達冷卻，並設定更高的切割高度
	斷路器未正確/未完全裝入	正確裝入
	斷路器未完全旋轉至 ON 位置	完全旋轉至 ON 位置
	一個或兩個充電電池未正確裝入	插入充電電池時，須確保正確接觸
	握把位於存放位置	將握把翻至操作位置
園藝機具運行時斷斷續續	園藝機具內部線路故障	請聯繫博世客戶服務中心
	馬達保護裝置已觸發	讓馬達冷卻，並設定更高的切割高度
園藝機具的切割痕跡不規則和/或馬達運轉困難	切割高度過低	設定更高的切割高度
	刀片鈍化	更換刀片（請參考圖 L）
	可能卡死	關閉園藝機具並取下斷路器
		檢查園藝機具底部，並在必要時清空（請務必配戴園藝手套）
啟動園藝機具後，刀片不轉動	刀片裝錯方向	將刀片正確安裝
	刀片被草阻擋	關閉園藝機具並鬆脫斷路器（請參考圖 L）
		清除阻塞物（請務必配戴園藝手套）
	刀片螺帽/螺絲鬆動	鎖緊刀片螺帽/螺絲鬆動（25–30 Nm）
強烈震動/噪音	刀片螺帽/螺絲鬆動	鎖緊刀片螺帽/螺絲鬆動（25–30 Nm）
	刀片損壞	更換刀片（請參考圖 L）
集草袋未裝滿	可能阻塞	清潔布質集草袋，以清理孔洞並改善氣流。

維修和服務

維護，清潔和存放

- ▶ 在對園藝機具進行任何操作（例如維護、更換工具等）之前，以及將其搬運和存放時，請從園藝機具中取出充電電池。如果意外按下電源開關，則有受傷危險。
- ▶ 本產品要保持清潔，這樣才能更好更安全地工作。

本產品和通氣孔均須隨時保持清潔，以確保工作品質安全。

切勿用水噴灑本產品。

切勿將本產品浸入水中。

請將本產品存放在安全的地方，保持乾燥，並放置在兒童接觸不到之處。

請勿在本產品上放置任何物品。

確定所有螺母，插銷和螺栓都已旋緊，以確保能安全地使用本產品。

檢查本產品，並更換已經磨損或損壞的零件，以確保安全。

確保使用博世提供的待更換零件。不可對本裝置進行變更。

不可改裝本裝置。未獲授權的改裝可能影響產品的安全性並增加受傷危險。

蓄電池-保養

為確保充電電池的最佳使用，請遵循以下注意事項和措施：

- 保護充電電池免受濕氣和水的影響。
- 僅可將電動工具和充電電池存放在 -20 °C 至 50 °C 的溫度範圍內。在夏天不可將充電電池擱置在汽車內。
- 將充電電池單獨存放，而不可存放在園藝機具中。
- 在陽光直射情況下，請勿將充電電池放在園藝機具中。
- 儲存充電電池的最佳收納溫度為 5 °C。
- 偶爾使用柔軟、乾淨、乾燥的刷子清潔充電電池通氣孔。

如果充電後的使用時間明顯縮短，代表充電電池已經耗損且必須更換。

顧客服務處和顧客諮詢中心

台灣羅伯特博世股份有限公司
電話: (02) 7734 2588

製造商地址:

Robert Bosch Power Tools GmbH
羅伯特·博世電動工具有限公司
70538 Stuttgart / GERMANY
70538 斯圖加特/ 德國

我們的服務地址和保固條件連結可在最後一頁找到。

當您需要諮詢或訂購備用零件時，請務必提供本產品型號銘牌上 10 位數的產品機號。

廢棄物處理

必須以符合環保的方式，將損壞的電動工具、充電電池、配件和包裝材料進行回收再利用。

不可以把電動工具和充電電池 / 拋棄式電池丟入一般家庭垃圾中!



한국어

안전 수칙

잔디깎이 기호 설명



일반적인 위험 경고.



사용 설명서를 읽으십시오.



주위에 서 있는 사람들이 튕겨나오는 이물질에 다치지 않도록 주의하십시오.



경고: 주변에 사람이 없어야 합니다.



경고: 손과 발을 칼에서 멀리 두십시오.



경고: 유지 관리 작업을 하기 전에 배터리를 분리하십시오.



경고: 유지 보수작업을 하기 전에 잠금장치를 탈착하십시오.



해당 없음.



정원용 공구의 모든 부위가 완전히 정지할 때까지 기다렸다가 기기를 만지십시오. 정원용 공구의 스위치를 끈 후에도 날이 회전하므로 이로 인해 부상을 입을 수 있습니다.



비가 올 때 사용하지 마십시오.



해당 없음.



정원용 공구를 청소하기 위해 고압 세척기나 정원용 호스를 사용하지 마십시오.



정원용 공구로 작업하려는 곳에 야생동물이나 애완동물이 있는지 확인하십시오. 야생동물이나 애완동물이 기기를 작동하는 동안 다칠 수 있습니다. 기기의 사용 범위를 세밀하게 확인하고 돌, 막대, 철사, 뼈 등 모든 이물질을 제거하십시오. 기기를 사용할 때 깊은 풀 속에 야생동물, 애완동물 혹은 나무 그루터기가 있는지 주의하십시오.

전동공구 일반 안전 수칙

⚠ 경고

본 전동공구와 함께 제공된 모든 안전경고, 지시사항, 그림 및 사양을 숙지하십시오. 다음의 지시 사항을 준수하지 않으면 감전, 화재, 또는 심각한 부상을 초래할 수 있습니다.

앞으로 참고할 수 있도록 이 안전수칙과 사용 설명서를 잘 보관하십시오.

다음에서 사용되는 "전동공구"라는 개념은 전원에 연결하여 사용하는 (전선이 있는) 전동 기기나 배터리를 사용하는 (전선이 없는) 전동 기기를 의미합니다.

작업장 안전

▶ 작업장을 항상 깨끗이 하고 조명을 밝게 하십시오. 작업장 환경이 어수선하거나 어두우면 사고를 초래할 수 있습니다.

▶ 가연성 유체, 가스 또는 분진이 있어 폭발 위험이 있는 환경에서 전동공구를 사용하지 마십시오. 전동공구는 분진이나 증기에 점화하는 스파크를 일으킬 수 있습니다.

▶ 전동공구를 사용할 때 구경꾼이나 어린이 혹은 다른 사람이 작업장에 접근하지 못하게 하십시오. 다른 사람이 주의를 산만하게 하면 기기에 대한 통제력을 잃기 쉽습니다.

전기에 관한 안전

▶ 전동공구를 비에 맞지 않게 하고 습기 있는 곳에 두지 마십시오. 전동공구에 물이 들어가면 감전될 위험이 높습니다.

사용자 안전

▶ 신중하게 작업하며, 전동공구를 사용할 때 경솔하게 행동하지 마십시오. 피로한 상태이거나 약물 복용 및 음주한 후에는 전동공구를 사용하지 마십시오. 전동공구를 사용할 때 잠시라도 주의가 산만해지면 중상을 입을 수 있습니다.

▶ 작업자 안전을 위한 장치를 사용하십시오. 항상 보안경을 착용하십시오. 전동공구의 종류와 사용에 따라 먼지 보호 마스크, 미끄러지지 않는 안

전화, 안전모 또는 귀마개 등의 안전한 복장을 하면 상해의 위험을 줄일 수 있습니다.

- ▶ 실수로 기기가 작동되지 않도록 주의하십시오. 전동공구를 전원에 연결하거나 배터리를 끼우기 전에, 혹은 기기를 들거나 운반하기 전에, 전원 스위치가 꺼져 있는지 다시 확인하십시오. 전동공구를 운반할 때 전원 스위치에 손가락을 대거나 전원 스위치가 켜진 상태에서 전원을 연결하면 사고 위험이 높습니다.
- ▶ 전동공구를 사용하기 전에 조절하는 톨이나 키 등을 빼 놓으십시오. 회전하는 부위에 있는 톨이나 키로 인해 상처를 입을 수 있습니다.
- ▶ 자신을 과신하지 마십시오. 불안정한 자세를 피하고 항상 평형을 이룬 상태로 작업하십시오. 안정된 자세와 평형한 상태로 작업해야만이 의외의 상황에서도 전동공구를 안전하게 사용할 수 있습니다.
- ▶ 알맞은 작업복을 입으십시오. 헐렁한 복장을 하거나 장신구를 착용하지 마십시오. 머리카락이 가동하는 기기 부위에 가까이 닿지 않도록 주의하십시오. 헐렁한 복장, 장신구 혹은 긴 머리는 가동 부위에 말려 사고를 초래할 수 있습니다.
- ▶ 분진 추출장치나 수거장치의 조립이 가능한 경우, 이 장치가 연결되어 있는지, 제대로 작동이 되는지 확인하십시오. 이러한 분진 추출장치를 사용하면 분진으로 인한 사고 위험을 줄일 수 있습니다.
- ▶ 톨을 자주 사용한다고 해서 안주하는 일이 없게 하고 공구의 안전 수칙을 무시하지 않도록 하십시오. 부주의하게 취급하여 순간적으로 심각한 부상을 입을 수 있습니다.

전동공구의 올바른 사용과 취급

- ▶ 기기를 과부하 상태에서 사용하지 마십시오. 작업할 때 이에 적당한 전동공구를 사용하십시오. 알맞은 전동공구를 사용하면 지정된 성능 한도 내에서 더 효율적으로 안전하게 작업할 수 있습니다.
- ▶ 전원 스위치가 고장 난 전동공구를 사용하지 마십시오. 전원 스위치가 작동되지 않는 전동공구는 위험하므로, 반드시 수리를 해야 합니다.
- ▶ 전동공구를 조정하거나 액세서리 부품 교환 혹은 공구를 보관할 때, 항상 전원 콘센트에서 플러그를 미리 빼어 놓거나 배터리를 분리하십시오. 이러한 조치는 실수로 전동공구가 작동하게 되는 것을 예방합니다.
- ▶ 사용하지 않는 전동공구는 어린이 손이 닿지 않는 곳에 보관하고, 전동공구 사용에 익숙지 않거나 이 사용 설명서를 읽지 않은 사람은 기기를 사용해서는 안됩니다. 경험이 없는 사람이 전동공구를 사용하면 위험합니다.
- ▶ 전동공구 및 액세서리를 조심스럽게 관리하십시오. 가동 부위가 하자 없이 정상적인 기능을 하는지, 길리는 부위가 있는지, 혹은 전동공구의 기능에 중요한 부품이 손상되지 않았는지 확인하십시오. 손상된 기기의 부품은 전동공구를 다시 사용하기 전에 반드시 수리를 맡기십시오. 제대로

관리하지 않은 전동공구의 경우 많은 사고를 유발합니다.

- ▶ 절단 공구를 날카롭고 깨끗하게 관리하십시오. 날카로운 절단면이 있고 잘 관리된 절단공구는 걸리는 경우가 드물고 조절하기도 쉽습니다.
- ▶ 전동공구, 액세서리, 장착하는 공구 등을 사용할 때, 이 지시 사항과 특별히 기종 별로 나와있는 사용 방법을 준수하십시오. 이때 작업 조건과 실시하려는 작업 내용을 고려하십시오. 원래 사용 분야가 아닌 다른 작업에 전동공구를 사용할 경우 위험한 상황을 초래할 수 있습니다.
- ▶ 손잡이 및 잡는 면을 건조하게 유지하고, 오일 및 그리스가 묻어 있지 않도록 깨끗하게 하십시오. 손잡이 또는 잡는 면이 미끄러우면 예상치 못한 상황에서 안전한 취급 및 제어가 어려워집니다.

충전 전동공구의 올바른 사용과 취급

- ▶ 배터리를 충전할 때 제조 회사가 추천하는 충전기만을 사용하여 재충전해야 합니다. 특정 제품의 배터리를 위하여 제조된 충전기에 적합하지 않은 다른 배터리를 충전할 경우 화재 위험이 있습니다.
- ▶ 각 전동공구용으로 나와있는 배터리만을 사용하십시오. 다른 종류의 배터리를 사용하면 상해를 입거나 화재를 초래할 수 있습니다.
- ▶ 배터리를 사용하지 않을 때는, 각 극을 자극할 수 있는 페이퍼 클립, 동전, 열쇠, 못, 나사 등 유사한 금속성 물체와 멀리하여 보관하십시오. 배터리 극 사이에 쇼트가 일어나 화상을 입거나 화재를 야기할 수 있습니다.
- ▶ 배터리를 잘못 사용하면 누수가 생길 수 있습니다. 누수가 생긴 배터리에 닿지 않도록 하십시오. 피부에 접촉하게 되었을 경우 즉시 물로 씻으십시오. 유체가 눈에 닿았을 경우 바로 의사와 상담하십시오. 배터리에서 나오는 유체는 피부에 자극을 주거나 화상을 입힐 수 있습니다.
- ▶ 손상된 배터리 또는 공구를 사용하지 마십시오. 손상되었거나 개조된 배터리는 예기치 못한 특성으로 인해 화재, 폭발 또는 부상의 위험을 초래할 수 있습니다.
- ▶ 배터리 또는 공구가 화기 또는 지나치게 높은 온도에 노출되지 않도록 하십시오. 화기 또는 130 °C 이상의 온도에 노출되면 폭발할 위험이 있습니다.
- ▶ 충전 지침을 준수하고 지침에 제시된 범위를 벗어난 온도에서 충전하지 마십시오. 제시된 범위를 벗어난 부적절한 온도에서 충전할 경우 배터리가 손상되어 화재 발생의 위험이 증가됩니다.

서비스

- ▶ 전동공구 수리는 반드시 전문 인력에게 맡기고, 수리 정비 시 보쉬 순정 부품만을 사용하십시오. 그렇게 함으로써 기기의 안전성을 오래 유지할 수 있습니다.
- ▶ 손상된 배터리는 절대 수리하지 마십시오. 배터리 수리는 제조사 또는 공인 서비스센터에서만 진행할 수 있습니다.

잔디깎이용 안전수칙

- ▶ **악천후, 특히 천둥번개 위험이 있으면 잔디깎이로 작업하지 마십시오.** 그렇게 하면 번개에 맞을 위험을 줄일 수 있습니다.
- ▶ **잔디깎이를 사용해야 하는 부위에 야생동물이 있지 않은지 철저히 확인하십시오.** 야생동물이 잔디깎이에 의해 작동 중에 부상을 입을 수 있습니다.
- ▶ **잔디깎이를 사용해야 할 지역을 주의 깊게 검사하고, 모든 돌, 막대기, 철사, 뼈 및 기타 이물질을 제거하십시오.** 튀겨 나오는 물체로 인해 인적 손상을 유발할 수 있습니다.
- ▶ **잔디깎이를 사용하기 전에 항상 커팅날과 날 부품이 마모되거나 손상되지 않았는지 유관으로 확인해 보십시오.** 마모되거나 손상된 부품으로 인해 부상 위험이 높아집니다.
- ▶ **잔디 수거함의 마모 또는 손상 여부를 자주 점검하십시오.** 마모되거나 손상된 잔디 수거함으로 인해 부상 위험이 높아질 수 있습니다.
- ▶ **모든 보호장치를 조립하십시오.** 보호장치는 정상 기능을 하고, 제대로 조립되어야 합니다. 느슨하거나 손상된 또는 제대로 기능을 못하는 보호장치는 부상을 유발할 수 있습니다.
- ▶ **모든 통풍구가 오염되지 않도록 하십시오.** 통풍구가 막히거나 오염되면 과열되거나 화재를 유발할 수 있습니다.
- ▶ **잔디깎이로 작업할 때 항상 미끄러지지 않는 튼튼한 신발을 착용하십시오.** 맨발로 또는 샌달을 신고 잔디깎이를 사용하지 마십시오. 이렇게 하면 움직이는 날에 발이 닿아 부상을 입을 위험이 줄어듭니다.
- ▶ **잔디깎이로 작업할 때 항상 긴 바지를 착용하십시오.** 맨살 피부가 튕겨나가는 물체로 인해 부상 입을 위험이 높아집니다.
- ▶ **잔디깎이를 젖은 풀에서 사용하지 마십시오.** 건조, 절대로 달리지 마십시오. 이렇게 하면 미끄러지거나 쓰러져서 부상을 입을 위험을 감소합니다.
- ▶ **잔디깎이를 경사가 심한 곳에서 사용하지 마십시오.** 이렇게 하면 통제를 잃어 미끄러지거나 쓰러져서 부상을 입을 위험을 감소합니다.
- ▶ **경사면에서 작업할 때 항상 안전한 자세를 취하고, 항상 가로질러 작업하고 절대로 위아래로 작업하지 마십시오.** 방향을 바꿀 경우 특히 조심하십시오. 이렇게 하면 통제를 잃어 미끄러지거나 쓰러져서 부상을 입을 위험을 감소합니다.
- ▶ **잔디깎이를 뒤쪽으로 움직이거나 작업자 몸쪽으로 당길 때 특히 조심하십시오.** 항상 주변에 주의하십시오. 이렇게 하면 작동 중에 넘어질 위험이 줄어듭니다.
- ▶ **커팅 날이나 다른 위험한 가동 부품이 움직이는 동안 이를 만지지 마십시오.** 이렇게 하면 가동 부품으로 인한 부상 위험이 줄어듭니다.
- ▶ **걸린 물질을 제거하거나 잔디깎이를 세척할 경우 모든 스위치가 꺼져 있는지 그리고 배터리가 빠져 있는지 확인하십시오.** 잔디깎이가 갑자기 작동하여 심한 부상을 입을 수 있습니다.

추가 안전수칙

- ▶ 이 기기에는 자석이 포함되어 있습니다. 임플란트 및 심장 박동기 또는 인슐린 펌프, 자기 데이터 저장 매체, 자기에 민감한 장치 등 기타 의료 장치 근처에 자석을 가져가지 마십시오. 자석의 자기장이 생성되어 의료 장치에 영향을 주거나 복구 불가능한 데이터 손실을 야기할 수 있습니다.
- ▶ 기기를 조정할 때 움직이는 칼과 기계의 고정 부품 사이에 손가락이 끼이지 않도록 하십시오.
- ▶ 딱딱한 물체에 부딪히거나 과도한 진동이 있는 경우 제품에 손상이 없는지 확인하십시오.
- ▶ 제품을 보관하기 전에 항상 식하십시오.
- ▶ 보관하기 전에 잔디 수거함을 비우십시오.

작동

- ▶ 정원용 공구를 운반하기 위해 기울여야 할 때, 풀밭이 아닌 지면을 가로지를 경우, 혹은 잔디를 깎기 위해 정원용 공구를 한 곳에서 다른 곳으로 이동할 경우 칼날이 완전히 정지되어 있어야 합니다.
- ▶ 시동 시 혹은 모터를 켤 때 정원용 공구를 기울이지 마십시오.
- ▶ 정원용 공구를 사용 설명서에 나온 것처럼 스위치를 켜고, 이때 양발이 회전하는 부위에서 충분히 떨어져 있도록 하십시오.
- ▶ 양손과 양발이 회전하는 부위 가까이나 아래에 있지 않도록 하십시오.
- ▶ 정원용 공구로 작업할 때 배출 부위와 간격을 유지하십시오.
- ▶ 모터가 작동하는 동안 절대로 정원용 공구를 들거나 운반하지 마십시오.
- ▶ 손잡이를 보관 위치로 접을 때 케이블이 손상되거나 끼이지 않도록 케이블 위치를 확인하십시오.
- ▶ 손잡이가 보관 위치에 접혀 있으면 잔디깎이가 시동되지 않습니다.
- ▶ 잔디깎이를 수평 위치에 보관할 때는 배터리를 빼고 회로 차단기가 꺼져 있는지 확인하십시오.
- ▶ 잔디깎이를 수직 위치로 보관할 때 날이 정지된 상태로 배터리를 탈착한 후 회로 차단기가 꺼져 있는지 확인하십시오.
- ▶ 반드시 핸들을 잡고 정원용 공구를 들어 올리십시오. 핸들을 조심스럽게 취급하십시오.

차단기 풀기

- 잔디 깎이를 운반하는 동안.
- 정원용 공구를 두고 자리를 비울 경우.
- 막힘을 제거하기 전.
- 정원용 공구를 점검, 세척하거나 혹은 공구에 작업하기 전.
- 이물질에 부딪힌 경우; 즉시 정원용 공구의 손상 여부를 확인하고 필요 시 날을 교체하십시오.
- 정원용 공구가 비정상적으로 진동하기 시작할 경우(즉시 점검).

충전용 배터리의 최적 사용법을 위한 정보

- ▶ 배터리를 분해하지 마십시오. 단락이 발생할 위험이 있습니다.



충전용 배터리를 지속적인 태양 광선 등 고열에 장시간 노출되지 않도록 하고, 물과 불 그리고 수분이 있는 곳에 두지 마십시오. 폭발 위험이 있습니다.



- ▶ 기기를 사용하지 않을 경우 사용하지 않는 배터리를 접점 브리징을 유발할 수 있는 페이퍼 클립, 동전, 열쇠, 못, 나사 또는 기타 작은 금속 물체에 서 멀리 두십시오. 배터리 극 사이에 쇼트가 일어나 화상을 입거나 화재가 야기될 수 있습니다.
- ▶ 배터리가 손상되었거나 이를 잘못 사용한 경우 증기가 발생할 수 있습니다. 작업장을 환기시키고 필요한 경우 의사와 상담하십시오. 증기로 인해 호흡기가 자극될 수 있습니다.
- ▶ 제조사의 배터리 제품만 사용하십시오. 그래야만 배터리 과부하의 위험을 방지할 수 있습니다.
- ▶ 못이나 스크류 드라이버 같은 뾰족한 물체 또는 외부에서 오는 충격 등으로 인해 축전지가 손상될 수 있습니다. 내부 단락이 발생하여 배터리가 타거나 연기가 발생하고, 폭발 또는 과열될 수 있습니다.
- ▶ 배터리가 누전되지 않도록 하십시오. 폭발할 위험이 있습니다.
- ▶ 가끔 배터리의 통풍구를 부드럽고 깨끗한 마른 솔로 청소하십시오.
- ▶ 배터리는 보쉬사에서 승인한 충전기만으로 충전하십시오.

기호

다음에 나와있는 기호는 사용 설명서를 읽고 이해하는데 중요합니다. 그러므로 기호와 그 의미를 잘 기억하십시오. 기호를 제대로 이해하면 제품을 더욱 쉽고 안전하게 사용할 수 있습니다.

기호	의미
	이동 방향
	반동 방향

제품 사양

잔디깎이		GRA 18V2-46
제품 번호		3 600 HC8 0..
정격 전압 ^{A)}	V	36 V (2 x 18 V)
절단폭	cm	46
절단 높이	mm	30-70
용량, 잔디 수거함	l	60
IEC 62841-1/IEC 62841-4-3에 따른 중량 ^{A)}	kg	27.7
일련번호		정원용 공구의 명판 참조
충전 시 권장하는 주변 온도	°C	0 ... +35

기호	의미
	보호 장갑을 착용하십시오
	안전한 신발을 착용하십시오.
	중량
	스위치 켜기
	스위치 끄기
	허용 사항
	금지 사항
CLICK!	확실하게 들리는 소리
	별매 액세서리/부품

제품 및 성능 소개



모든 안전수칙과 지시 사항을 상세히 읽고 지켜야 합니다. 다음의 안전수칙과 지시 사항을 준수하지 않으면 화재 위험이 있으며 감전 혹은 중상을 입을 수 있습니다.

사용 설명서의 뒷부분에 나온 도면들을 참조하십시오.

규정에 따른 사용

본 정원용 공구는 잔디를 깎는 작업에 사용해야 합니다.

정원용 공구는 헤지 커팅이나 트리밍 및 잔가지 파쇄작업에 적합하지 않습니다.

본 정원용 공구는 바닥에 있는 잔디 깎는 작업에 사용해야 합니다.

잔디깎이		GRA 18V2-46
작동 ^{B)} 및 보관 시 허용되는 주변 온도	°C	-20 ... +50
호환 배터리		GBA18V... GBA 18V... ProCORE18V... EXPERT18V... EXBA18V... CORE18V...
전출력 발휘를 위해 권장하는 배터리		GBA 18V... ≥ 4.0 Ah ProCORE18V... ≥ 4.0 Ah EXPERT18V...
권장하는 충전기		GAL18... GAL 18... GAL 36... GAL12V/18... GAL 12V/18... GAX 18... EXAL18...

A) 사용하는 배터리에 따라 좌우

B) 온도 < 0 °C일 때 출력 제한

배터리 팩

Bosch는 배터리 없이도 충전 전동공구를 판매합니다. 전동공구의 공급 사양에 배터리가 포함되어 있는지 여부는 포장에서 확인할 수 있습니다.

배터리 충전하기

- ▶ **기술자료에 기재되어 있는 충전기만 사용하십시오.** 귀하의 전동공구에 사용된 리튬이온 배터리에 맞춰진 충전기들입니다.

정보: 리튬 이온 배터리는 국제 운송규정으로 인해 부분 충전된 상태로 배송됩니다. 배터리가 완벽한 성능을 보장할 수 있도록 처음 사용하기 전에 완전히 충전하십시오.

배터리 장착하기

- ▶ 이 기기는 배터리 2개 미만 작동하도록 설계되었으며 배터리 중 하나가 완전히 방전된 경우에도 작동하지 않습니다. 항상 동일한 충전 상태의 배터리를 사용하고, 배터리 수명 주기가 항상 가장 낮은 충전 배터리에 의해 결정되므로 완전히 또는 부분적으로 충전된 배터리를 결합하지 마십시오.

정보: 적합하지 않은 배터리를 사용하면 기능에 장애가 생기거나 기기가 손상될 수 있습니다.

충전된 배터리들을 끼우십시오. 배터리들이 완전히 끼워져 있는지 확인해 보십시오.

충전된 배터리를 찰칵 소리가 날 때까지 배터리 홀더에 밀어 넣습니다.

배터리 탈착하기

배터리에는 2단계 잠금 장치가 있어 실수로 배터리 해제 버튼을 눌렀을 때 배터리가 빠지는 것을 방지합니다. 배터리가 전동공구에 끼워져 있는 동안 이는 스프링으로 제 위치에 고정됩니다.

기기에서 배터리를 빼려면 배터리 해제 버튼을 누르고 배터리를 꺼내십시오. **이때 지나치게 힘을 가하지 마십시오.**

배터리 충전상태 표시기

지침: 모든 배터리 유형에 충전상태 표시기가 있는 것은 아닙니다.

배터리 충전상태 표시기에 있는 녹색 LED는 배터리의 충전 상태를 나타냅니다. 안전상의 이유로 전동공구가 멈춰 있는 경우에만 잔량상태 확인이 가능합니다.

충전상태 표시기 버튼  또는 을 누르면, 충전 상태가 표시됩니다. 배터리가 분리된 상태에서도 표시 가능합니다.

충전상태 표시기 버튼을 눌렀는데도 LED가 켜지지 않으면 배터리가 손상된 것이므로 교환해 주어야 합니다.

배터리 유형 GBA 18V... | GBA18V...



LED	용량
연속등 3× 녹색	60–100 %
연속등 2× 녹색	30–60 %
연속등 1× 녹색	5–30 %
점멸등 1× 녹색	0–5 %

배터리 유형 ProCORE18V... | EXPERT18V... | EXBA18V... | CORE18V...



LED	용량
연속등 5 x 녹색	80-100 %
연속등 4 x 녹색	60-80 %
연속등 3 x 녹색	40-60 %
연속등 2 x 녹색	20-40 %
연속등 1 x 녹색	5-20 %
점멸등 1 x 녹색	0-5 %

배터리 결함 위험 감지

EXPERT18V... | EXBA18V...

충전상태 표시기 LED는 배터리의 충전상태 외에도 배터리 결함에 대한 위험 상태를 보여줍니다.

해당 기능을 활성화하려면, 충전상태 표시기 버튼 을 3초 간 누른 상태를 유지하십시오. 배터리 분석 내용은 배터리 충전상태 표시기의 작동 램프를 통해 표시됩니다. 배터리 충전상태 표시기에 결과가 표시됩니다.

 **1개 LED:** 배터리 결함 위험이 높습니다. 출력 및 작동 시간이 이미 줄어들었을 수 있습니다. 배터리 교체를 권장합니다.

 **5개 LED:** 배터리가 양호한 상태에 있으며, 결함 위험이 낮습니다.

유의사항: 배터리 결함 위험 예측은 2단계로 진행되며, 간략한 상태 평가를 제공합니다. 배터리는 양호한 상태로 평가되거나 결함 위험이 높은 것으로 안내됩니다. 배터리 상태는 퍼센트 단위로 표시되지 않습니다.

조립 및 작동

취급 목표	그림	페이지
공급 사양 ^{A)}	A	3
손잡이 펼치기 및 조립하기	B-D	4 - 5
작업 높이 조절하기		
잔디 수거함 장착/탈착하기	E	5
제초 높이 설정하기	F	6
양쪽 배터리 끼우기	G	6
작동	H	7
- 회로 차단기 끼우기		

고장 원인찾기



취급 목표

그림 페이지

- 전원 켜기		
- 전원 끄기		
- 회로 차단기 제거하기		
양쪽 배터리 탈착하기	I	8
작업 방법 "잔디 깎기"	J	8
작업 방법 "멀칭 작업"	K	9
날의 정비/교체	L	9
보관하기	M	10
액세서리 선택하기	N	11

A) 본 액세서리는 기본 공급 사양에 포함되어 있지 않습니다.

시동

작업 안전

▶ **주의!** 보수 정비 혹은 세척 작업을 하기 전에 정원용 공구의 스위치를 끄고 회로 차단기를 풀고 배터리를 빼십시오. 스위칭 케이블이 손상, 일부 절단 또는 엉킨 경우에도 마찬가지입니다.

▶ 정원용 공구의 스위치가 꺼진 후에도 칼날이 몇 초 동안 잔여 회전을 합니다.

▶ 주의: 회전하는 칼날을 만지지 마십시오.

▶ 기술자료에 기재되어 있는 충전기만 사용하십시오. 이 충전기들만이 귀하의 제품에 사용된 리튬 이온 배터리에 적합합니다.

멀칭 기능

잔디 수거함을 제거하고 멀칭 어댑터를 배출구에 밀어 넣습니다. 배출 플랩을 닫습니다.

잔디 수거함을 다시 사용할 경우 멀칭 어댑터를 제거하십시오.

사용방법

절단 성능(배터리 작동시간)

절단 성능(배터리 작동시간)은 잔디 밀도, 습도, 길이 및 제초 높이 등 잔디의 특성에 따라 좌우됩니다.

제초작업 중에 정원용 공구의 스위치를 자주 작동하면 절단 성능(배터리 작동시간)이 줄어듭니다.

절단 성능(배터리 작동시간)을 최적화하기 위해서는 자주 제초를 하고 제초 높이를 늘리며 적당한 속도로 이동하는 것을 추천합니다.

증상	가능한 원인	조치
모터가 가동하지 않습니다	정원용 공구의 내부 케이블이 고장입니다	보쉬 고객 서비스 센터에 문의하십시오
	한개 또는 두개의 배터리가 방전되었습니다	배터리들을 충전하십시오
	한개 또는 두개의 배터리가 너무 찹니다/뜨겁습니다	배터리들을 따뜻하게/식게 두십시오
	잔디가 너무 깊니다	허용되는 최대 잔디 길이는 최고 절단 높이로 설정할 경우 20 cm입니다
	모터 보호장치가 작동하였습니다	모터를 냉각시킨 후에 제조 높이를 높게 조절하십시오
	회로 차단기가 올바르게/완전히 끼워지지 않았습니다	올바로 끼우십시오
	회로 차단기가 ON 위치로 완전히 돌리져 있지 않았습니다	ON 위치로 완전히 돌리십시오
	하나 또는 두 개의 배터리가 올바르게 끼워지지 않았습니다	접촉이 보장되도록 배터리를 끼우십시오
정원용 공구가 간헐적으로 작동합니다	손잡이가 보관 위치에 있습니다	손잡이를 작동 위치로 접으십시오
	정원용 공구의 내부 케이블이 고장입니다 모터 보호장치가 작동하였습니다	보쉬 고객 서비스 센터에 문의하십시오 모터를 냉각시킨 후에 제조 높이를 높게 조절하십시오
정원용 공구가 불규칙적으로 절단하며 그리고/혹은 모터가 힘들게 작동합니다	제조 높이가 너무 낮습니다	제조 높이를 높게 조절하십시오
	날이 무딥니다	날 교체하기(그림 L 참조)
	정원용 공구의 하면이 막혀 있을 수 있습니다	정원용 공구의 스위치를 끄고 회로 차단기를 제거하십시오 정원용 공구의 하면을 확인하고 경우에 따라 이를 깨끗이 하십시오(항상 정원용 장갑을 착용하십시오)
	날이 잘못 끼워져 있습니다	날을 제대로 조립하십시오
정원용 공구의 스위치를 켜올 때 날이 회전하지 않습니다	날이 풀에 걸렸습니	정원용 공구의 스위치를 끄고 회로 차단기를 풀어 주십시오(그림 L 참조)
	날의 너트/볼트가 느슨합니다	막힌 것을 제거하십시오(항상 정원용 장갑을 착용하십시오) 날의 너트/나사를 조입니다(25-30 Nm)
심한 진동/소음이 있습니다	날의 너트/볼트가 느슨합니다	날의 너트/볼트를 조이십시오(25-30 Nm)
	날이 손상되었습니다	날 교체하기(그림 L참조)
잔디 수거함이 완전히 채워져 있지 않습니다	막힘 가능성	패브릭 잔디 수거함을 청소하여 구멍을 뚫고 공기 흐름을 개선하십시오.

보수 정비 및 서비스

보수정비, 세척 및 보관

- ▶ **정비나 부품 교체 등 정원용 공구에 각종 작업을 할 때, 그리고 운반이나 보관 시에 먼저 배터리를 기기에서 빼십시오.** 전원 스위치가 실수로 작동하여 부상을 입을 위험이 있기 때문입니다.
- ▶ **안전하게 훌륭한 작업을 하려면 정원용 공구를 깨끗이 유지하십시오.**

안전하게 훌륭한 작업을 하려면 제품과 통풍구를 깨끗이 유지하십시오.

절대로 제품에 물을 분무하지 마십시오.

절대로 제품을 물에 담그지 마십시오.

제품을 어린이의 손이 닿지 않는 안전하고 건조한 곳에 보관하십시오.

제품 위에 다른 물체를 올려놓지 마십시오.

제품으로 안전한 작업을 하기 위해 모든 너트와 볼트 및 나사가 꼭 조여져 있는지 확인하십시오.

제품을 점검하고 안전상 마모되거나 손상된 부품은 교체해 주십시오.

모든 교체 부품이 보쉬 제품인지 확인해 보십시오. 기기를 변경하지 마십시오.

기기를 개조하지 마십시오. 무단 개조는 제품의 안전성을 저해하고 부상 위험을 높일 수 있습니다.

배터리 관리

배터리의 최적 사용을 보장하기 위해 다음 사항을 준수하십시오:

- 배터리를 습기와 물로 부터 보호하십시오.
- 전동공구와 배터리들을 -20 °C와 50 °C 온도 범위 내에서만 보관하십시오. 배터리들을 예를 들면 여름에 자동차 안에 두지 마십시오.
- 배터리들을 정원용 공구에서 분리하여 보관하십시오.
- 직사광선의 경우 배터리들을 정원용 공구에 두지 마십시오.
- 배터리들의 최적 보관 온도는 5 °C입니다.
- 가끔 배터리들의 통풍구를 부드럽고 깨끗한 마른 솔로 청소하십시오.

충전 후에 작동 시간이 현저히 짧아지면 충전용 배터리가 소모되어 교체해 주어야 한다는 것을 표시합니다.

AS 센터 및 사용 문의

콜센터
080-955-0909

당사의 서비스 센터 주소 및 보증 조건 관련 링크는 마지막 페이지에서 확인할 수 있습니다.

문의나 대체 부품 주문 시에는 반드시 제품 네임 플레이트에 있는 10자리의 부품번호를 알려 주십시오.

처리

전동공구, 배터리, 액세서리 및 포장은 환경 친화적인 방법으로 재생할 수 있도록 분류하십시오.

전동공구와 충전용 배터리/배터리를 가정용 쓰레기로 처리하지 마십시오!



ระมัดระวังไม่ให้บุคคลที่ยืนอยู่ในบริเวณใกล้เคียงได้รับบาดเจ็บจากเศษสิ่งแปลกปลอมที่กระเด็นออก



คำเตือน: ดูแลให้บุคคลอื่นอยู่ห่างจากเครื่อง



คำเตือน: รักษาระยะของมือและเท้าให้อยู่ห่างจากใบมีด



คำเตือน: ถอดแบตเตอรี่ออกก่อนบำรุงรักษา



คำเตือน: ถอดอุปกรณ์ล็อคออกก่อนทำงานบำรุงรักษา



ไม่เกี่ยวข้อง



ก่อนที่จะสัมผัสชิ้นส่วนของเครื่องมือสำหรับงานสวน ให้รอจนกว่าชิ้นส่วนทั้งหมดของเครื่องจะหยุดนิ่งสนิท ใบมีดยังหมุนอีกสักครู่หลังจากปิดใช้งานเครื่องมือสำหรับงานสวนและอาจก่อให้เกิดการบาดเจ็บได้



ห้ามใช้งานขณะฝนตก



ไม่เกี่ยวข้อง



ห้ามใช้เครื่องฉีดน้ำแรงดันสูงหรือสายยางสำหรับงานสวนในการทำความสะอาดเครื่องมือสำหรับงานสวน



ตรวจสอบบริเวณที่จะใช้งานเครื่องมือสำหรับงานสวนอย่างละเอียดเพื่อดูว่ามีสัตว์ป่าและสัตว์เลี้ยงอยู่หรือไม่ เนื่องจากสัตว์ป่าและสัตว์เลี้ยงอาจได้รับบาดเจ็บระหว่างการทำงานของเครื่องมือได้ ตรวจสอบบริเวณการใช้งานเครื่องให้ทั่ว และนำหิน กิ่งไม้ ลวด กระตุก และวัตถุแปลกปลอมออกให้หมด ตรวจสอบขณะใช้งานเครื่องว่ามีสัตว์ป่า สัตว์เลี้ยง หรือดอกไม้ซ่อนอยู่ในพุ่มหญ้าหนา

ไทย

คำแนะนำด้านความปลอดภัย

คำอธิบายสัญลักษณ์เครื่องตัดหญ้า

คำเตือนเกี่ยวกับอันตรายทั่วไป



อ่านคู่มือการใช้งาน



คำเตือนเพื่อความปลอดภัยทั่วไปสำหรับเครื่องมือไฟฟ้า

คำเตือน

อ่านคำเตือนเพื่อความปลอดภัย คำแนะนำ ภาพประกอบ และข้อมูล

จำเพาะทั้งหมดที่จัดส่งมาพร้อมกับเครื่องมือไฟฟ้า

การไม่ปฏิบัติตามคำแนะนำทั้งหมดที่ระบุไว้ด้านบนนี้อาจทำให้ถูกไฟฟ้าดูด เกิดไฟไหม้ และ/หรือได้รับบาดเจ็บอย่างร้ายแรง

เก็บรักษาแบตเตอรี่และคำสั่งทั้งหมดสำหรับเปิดอ่านในภายหลัง

คำว่า "เครื่องมือไฟฟ้า" ในคำเตือนหมายถึง เครื่องมือไฟฟ้าของท่านที่ทำงานด้วยพลังงานไฟฟ้าจากแหล่งจ่ายไฟหลัก (มีสายไฟฟ้า) และเครื่องมือไฟฟ้าที่ทำงานด้วยพลังงานไฟฟ้าจากแบตเตอรี่ (ไร้สาย)

ความปลอดภัยในสถานที่ทำงาน

- ▶ รักษาสถานที่ทำงานให้สะอาดและมีไฟส่องสว่างดี สถานที่ที่มีดีหรือรกรุงรังนำมาซึ่งอุบัติเหตุ
- ▶ อย่าใช้เครื่องมือไฟฟ้าทำงานในสภาพบรรยากาศที่จุดติดไฟได้ เช่น ในที่มีช่องเหลวไวไฟ ก๊าซ หรือฝุ่น เมื่อใช้เครื่องมือไฟฟ้าจะเกิดประกายไฟซึ่งอาจจุดฝุ่นหรือไอให้ลุกเป็นไฟได้
- ▶ ขณะใช้เครื่องมือไฟฟ้าทำงาน ต้องกั้นเด็กและผู้ยืนดูให้ออกห่าง การหันเหความสนใจอาจทำให้ท่านขาดการควบคุมเครื่องมือได้

ความปลอดภัยเกี่ยวกับไฟฟ้า

- ▶ อย่าให้เครื่องมือไฟฟ้าถูกฝนหรืออยู่ในสภาพเปียกชื้น หากนำเข้าไปในเครื่องมือไฟฟ้า จะเพิ่มความเสี่ยงจากการถูกไฟฟ้าดูด

ความปลอดภัยของบุคคล

- ▶ ท่านต้องอยู่ในสภาพเตรียมพร้อม ระวังวังในสิ่งที่ท่านกำลังทำอยู่ และมีสติขณะใช้เครื่องมือไฟฟ้าทำงาน อย่าใช้เครื่องมือไฟฟ้าขณะที่ท่านกำลังเหนื่อย หรืออยู่ภายใต้การครอบงำของฤทธิ์ของยาเสพติด แอลกอฮอล์ และยา เมื่อใช้เครื่องมือไฟฟ้าทำงาน ในช่วงเวลาที่ท่านขาดความเอาใจใส่อาจทำให้บุคคลมาดเจ็บอย่างรุนแรงได้
- ▶ ใช้อุปกรณ์ป้องกันร่างกาย สวมแว่นตาป้องกันเสมอ อุปกรณ์ป้องกัน เช่น หนวกกันน๊อค รองเท้ากันลื่น หมวกแข็ง หรืออุปกรณ์ป้องกันสิ่งต่าง ๆ ที่มีความเหมาะสมกับสภาพการทำงาน จะลดการบาดเจ็บทางร่างกาย
- ▶ ป้องกันการติดเครื่องโดยไม่ตั้งใจ ตรวจสอบให้แน่ใจว่าสวิตช์อยู่ในตำแหน่งปิดก่อนเชื่อมต่อเข้ากับแหล่งจ่ายไฟ และ/หรือแบตเตอรี่แพ็ค ยกหรือถือเครื่องมือ การถือเครื่องมือโดยวิธีที่สวิตช์ หรือสลับปลั๊กไฟฟ้าขณะสวิตช์เปิดอยู่ อาจนำไปสู่อุบัติเหตุที่ร้ายแรงได้
- ▶ นำเครื่องมือปรับแต่งหรือปรับแต่งปากตายออกก่อนเปิดสวิตช์เครื่องมือไฟฟ้า เครื่องมือหรือประแจปากตายที่วางอยู่ใกล้ส่วนของเครื่องมือที่กำลังหมุนจะทำให้บุคคลมาดเจ็บได้
- ▶ อย่าเอื้อมไกลเกินไป ดังทำขึ้นที่มั่นคงและวางน้ำหนักให้สมดุลตลอดเวลา ในลักษณะนี้ท่านสามารถควบคุมเครื่องมือไฟฟ้าในสถานการณ์ที่ไม่คาดคิดได้ดีกว่า
- ▶ แต่งกายอย่างเหมาะสม อย่าใส่เสื้อผ้าหลวมหรือสวมเครื่องประดับ เสื้อผ้าหลวม เครื่องประดับ และผมยาวอาจเข้าไปติดในชิ้นส่วนที่เคลื่อนที่
- ▶ หากเครื่องมือไฟฟ้ามีข้อเชื่อมต่อกับเครื่องดูดฝุ่นหรือเครื่องเก็บผง ให้ตรวจสอบให้แน่ใจว่าได้เชื่อมต่อและใช้งาน

อย่างถูกต้อง การใช้ข้อปกรณณ์ดูดฝุ่นช่วยลดอันตรายที่เกิดจากฝุ่นได้

- ▶ เมื่อใช้งานเครื่องมือบ่อยครั้งจะเกิดความคุ้นเคย อย่าให้ความคุ้นเคยทำให้ท่านเกิดความชะล่าใจและละเลยกฎเกณฑ์ด้านความปลอดภัยในการใช้งานเครื่อง การทำงานอย่างไม่ระมัดระวังอาจทำให้เกิดการบาดเจ็บอย่างร้ายแรงภายในเสี้ยววินาที

การใช้และการดูแลรักษาเครื่องมือไฟฟ้า

- ▶ อย่างพินิจคำสั่งเครื่องมือไฟฟ้า ใช้เครื่องมือไฟฟ้าที่ถูกต้อง ตรงตามลักษณะงานของท่าน เครื่องมือไฟฟ้าที่ถูกต้องจะทำงานได้ดีกว่าและปลอดภัยกว่าในระดับสมรรถภาพที่ออกแบบไว้
- ▶ อย่าใช้เครื่องมือไฟฟ้าถ้าสวิตช์ไม่สามารถเปิดปิดได้ เครื่องมือไฟฟ้าที่ไม่สามารถควบคุมการเปิดปิดด้วยสวิตช์ได้ เป็นเครื่องมือไฟฟ้าที่ไม่ปลอดภัยและต้องส่งซ่อมแซม
- ▶ ก่อนปรับแต่งเครื่อง เปลี่ยนอุปกรณ์ประกอบ หรือเก็บเครื่องเข้าที่ ต้องถอดปลั๊กออกจากแหล่งจ่ายไฟ และ/หรือถอดแบตเตอรี่แพ็คออกจากเครื่องมือไฟฟ้าหากถอดออกได้ มาตรการป้องกันเพื่อความปลอดภัยนี้ช่วยลดความเสี่ยงจากการติดเครื่องโดยไม่ตั้งใจ
- ▶ เมื่อเลิกใช้งานเครื่องมือไฟฟ้า ให้เก็บเครื่องมือไว้ในที่ที่เด็กหยิบไม่ถึง และมอบหมายให้บุคคลที่ไม่คุ้นเคยกับเครื่องมือหรือบุคคลที่ไม่ได้อ่านคำแนะนำเหล่านี้ใช้เครื่องมือ เครื่องมือไฟฟ้าเป็นของอันตรายหากตกอยู่ในมือของผู้ใช้ที่ไม่ได้รับการฝึกฝน
- ▶ บำรุงรักษาเครื่องมือไฟฟ้าและอุปกรณ์ประกอบ ตรวจสอบชิ้นส่วนที่เคลื่อนที่ว่าวางไม่ตรงแนวหรือติดขัดหรือไม่ ตรวจสอบการแตกหักของชิ้นส่วนและสภาพอื่นใดที่อาจมีผลต่อการทำงานของเครื่องมือไฟฟ้า หากชำรุดต้องส่งเครื่องมือไฟฟ้าไปซ่อมแซมก่อนใช้งาน อุบัติเหตุหลายอย่างเกิดขึ้นเนื่องจากดูแลรักษาเครื่องมือไม่ดีพอ
- ▶ รักษาเครื่องมือตัดให้คมและสะอาด หากบำรุงรักษาเครื่องมือที่มีขอบตัดแหลมคมอย่างถูกต้อง จะสามารถตัดได้สิ้นไม่ติดขัดและความคมได้ง่ายกว่า
- ▶ ใช้เครื่องมือไฟฟ้า อุปกรณ์ประกอบ เครื่องมือ และอุปกรณ์อื่นๆ ตรงตามคำแนะนำเหล่านี้ โดยคำนึงถึงเงื่อนไขการทำงานและงานที่จะทำ การใช้เครื่องมือไฟฟ้าทำงานที่ต่างไปจากวัตถุประสงค์การใช้งานของเครื่อง อาจนำไปสู่สถานการณ์ที่เป็นอันตรายได้
- ▶ ดูแลตามจับและพื้นผิวจับให้แห้ง สะอาด และปราศจากคราบน้ำมันและจาระบี ตามจับและพื้นผิวจับที่ลื่นทำให้หยิบจับได้ไม่ปลอดภัย และไม่สามารถควบคุมเครื่องมือในสถานการณ์ที่ไม่คาดคิด

การใช้และการดูแลรักษาเครื่องมือใช้แบตเตอรี่

- ▶ ชาร์จไฟใหม่ด้วยเครื่องชาร์จที่บริษัทผู้ผลิตระบุไว้เท่านั้น เครื่องชาร์จที่เหมาะสมสำหรับชาร์จแบตเตอรี่แพ็คประเภทหนึ่ง หากนำไปชาร์จแบตเตอรี่แพ็คประเภทอื่น อาจเกิดไฟไหม้ได้
- ▶ ใช้เครื่องมือไฟฟ้าเฉพาะกับแบตเตอรี่แพ็คที่กำหนดไว้เท่านั้น การใช้แบตเตอรี่แพ็คประเภทอื่นเสี่ยงต่อการเกิดไฟไหม้หรือบาดเจ็บ
- ▶ เมื่อไม่ใช้งานแบตเตอรี่แพ็ค ให้เก็บไว้ห่างวัตถุที่เปราะบางอื่นๆ เช่น คลิปหนีบกระดาษ เหรียญ กุญแจ ตะปู สกรู หรือ

วัตถุที่เป็นโลหะขนาดเล็กอื่นๆ ที่สามารถเชื่อมต่อขั้วหนึ่งไปยังอีกขั้วหนึ่งได้

การลัดวงจรของขั้วแบตเตอรี่อาจทำให้เกิดการไหม้หรือไฟลุกได้

- ▶ หากใช้แบตเตอรี่อย่างอาจมีของเหลวไหลออกมาจากแบตเตอรี่ได้ ให้หลีกเลี่ยงการสัมผัส หากสัมผัสโดยบังเอิญให้ใช้น้ำล้าง หากของเหลวเข้าตา ให้ขอความช่วยเหลือจากแพทย์

ของเหลวที่ไหลออกมาจากแบตเตอรี่อาจทำให้เกิดอาการคันหรือแสบผิวหนังได้

- ▶ อย่าใช้แบตเตอรี่แพ็คหรือเครื่องมือที่ชำรุดหรือดัดแปลง แบตเตอรี่ที่ชำรุดหรือดัดแปลงอาจแสดงอาการที่ไม่สามารถคาดเดาได้ ส่งผลให้เกิดไฟไหม้ ระเบิด หรือความเสี่ยงต่อการได้รับบาดเจ็บ

- ▶ อย่าให้แบตเตอรี่แพ็คหรือเครื่องมือสัมผัสไฟหรืออุณหภูมิที่สูงเกินไป หากสัมผัสไฟหรืออุณหภูมิที่สูงกว่า 130 °C อาจทำให้เกิดการระเบิดได้

- ▶ ปฏิบัติตามคำแนะนำเกี่ยวกับการชาร์จทั้งหมด และต้องไม่ชาร์จแบตเตอรี่แพ็คหรือเครื่องมือ นอกช่วงอุณหภูมิที่กำหนดในคำแนะนำ การชาร์จแบตเตอรี่อย่างไม่ถูกวิธีหรือนอกช่วงอุณหภูมิที่กำหนด อาจทำให้แบตเตอรี่เสียหายและเพิ่มความเสี่ยงต่อการเกิดไฟไหม้

การบริการ

- ▶ ส่งเครื่องมือไฟฟ้าของท่านเข้ารับบริการจากช่างซ่อมที่มีคุณสมบัติเหมาะสม โดยใช้อะไหล่ที่เหมือนกันเท่านั้น ในลักษณะนี้ท่านจะแน่ใจได้ว่าเครื่องมือไฟฟ้าอยู่ในสภาพที่ปลอดภัย

- ▶ อย่าบำรุงรักษาแบตเตอรี่แพ็คที่ชำรุดอย่างเด็ดขาด ต้องส่งให้บริษัทผู้ผลิตหรือศูนย์บริการที่ได้ รับอนุญาตทำการบำรุงรักษาแบตเตอรี่แพ็คเท่านั้น

คำแนะนำด้านความปลอดภัยสำหรับเครื่องตัดหญ้า

- ▶ ห้ามใช้งานเครื่องตัดหญ้าขณะสภาพอากาศไม่ดี โดยเฉพาะอย่างยิ่งเมื่อเสี่ยงต่อการเกิดฟ้าแลบ วิธีนี้จะช่วยลดความเสี่ยงต่อการถูกฟ้าผ่า

- ▶ ตรวจสอบให้ทั่วพื้นที่ที่ต้องการใช้งานเครื่องตัดหญ้าว่าไม่มีสัตว์ป่าอยู่ในบริเวณนั้น สัตว์ป่าอาจได้รับบาดเจ็บได้ขณะเครื่องตัดหญ้าทำงาน

- ▶ ตรวจสอบให้ทั่วพื้นที่ที่ต้องการใช้งานเครื่องตัดหญ้า และนำหิน กิ่งไม้ ลวด กระจก รวมถึงวัตถุแปลกปลอมอื่นๆ ออกให้หมด เศษสิ่งแปลกปลอมที่กระเด็นออกอาจเป็นสาเหตุให้บุคคลได้รับบาดเจ็บได้

- ▶ ก่อนการใช้งานเครื่องตัดหญ้า ให้ตรวจสอบด้วยสายตาเสมอ เพื่อให้แน่ใจว่ามีคนและวัตถุไม่มีชีวิตหรือสัตว์ร้ายอยู่รอบๆ ชิ้นส่วนที่สึกหรอหรือชำรุดเสียหายอาจทำให้เสี่ยงต่อการบาดเจ็บเพิ่มมากขึ้น

- ▶ ห้ามตรวจสอบชิ้นส่วนใดๆ เพื่อดูว่าเกิดการสึกหรอหรือเสียหายหรือไม่ ถังเก็บหญ้าที่สึกหรอหรือเสียหายอาจทำให้เสี่ยงต่อการบาดเจ็บเพิ่มมากขึ้น

- ▶ ดูแลให้อุปกรณ์ป้องกันทุกชิ้นติดตั้งอยู่ในตำแหน่งเสมอ อุปกรณ์ป้องกันต้องได้รับการติดตั้งอย่างเหมาะสมและสามารถใช้งานได้ อุปกรณ์ป้องกันที่หลวม เกิดความเสี่ยง

หาย หรือไม่สามารถทำงานได้อย่างถูกต้องอาจทำให้เกิดการบาดเจ็บได้

- ▶ ดูแลให้ช่องระบายอากาศทุกช่องปราศจากสิ่งสกปรก ช่องระบายอากาศที่อุดตันและสิ่งสกปรกต่างๆ อาจทำให้เกิดความร้อนสูงเกินหรืออันตรายจากเปลวไฟได้

- ▶ สวมรองเท้าป้องกันที่มีคุณสมบัติกันส้นเสมอขณะปฏิบัติงานโดยใช้เครื่องตัดหญ้า ใช้งานเครื่องตัดหญ้าโดยสวมรองเท้าเสมอและไม่สวมรองเท้าแตะแบบเปิดนิ้วเท้า วิธีนี้ช่วยลดความเสี่ยงต่อการบาดเจ็บที่เท้าจากการสัมผัสกับใบมีดที่เคลื่อนไหว

- ▶ สวมกางเกงขายาวเสมอขณะปฏิบัติงานโดยใช้เครื่องตัดหญ้า ผีเสื้อที่ไม่มีสิ่งป้องกันทำให้เสี่ยงต่อการบาดเจ็บจากเศษวัสดุที่กระเด็นออกมาเพิ่มมากขึ้น

- ▶ ห้ามใช้งานเครื่องตัดหญ้ากับหญ้าเปียก ใช้งานเครื่องโดยการเดินและทวนวิ่ง วิธีนี้ช่วยลดอันตรายจากการลื่นหรือล้มที่อาจก่อให้เกิดการบาดเจ็บได้

- ▶ ห้ามใช้งานเครื่องตัดหญ้าในพื้นที่ที่มีความลาดชันมาก วิธีนี้ช่วยลดอันตรายจากการลื่นหรือล้มที่อาจก่อให้เกิดการบาดเจ็บได้

- ▶ ขณะปฏิบัติงานในพื้นที่ลาดชัน ให้ตรวจสอบเสมอว่าความยืนอยู่ในท่าที่มั่นคง ใช้งานเครื่องตามแนวทแยงของพื้นที่ลาดชัน ไม่เดินตรงขึ้นหรือลงเนิน และใช้ความระมัดระวังอย่างยิ่งเมื่อเปลี่ยนทิศทาง วิธีนี้ช่วยลดอันตรายจากการลื่นหรือล้มที่อาจก่อให้เกิดการบาดเจ็บได้

- ▶ ใช้ความระมัดระวังอย่างยิ่งเมื่อต้องเคลื่อนเครื่องตัดหญ้า ถอยหลังหรือดึงเชือกตัว ตัวตรวจสอบบริเวณโดยรอบเสมอ วิธีนี้ช่วยลดความเสี่ยงจากการสะดุดล้มขณะใช้งาน

- ▶ ห้ามสัมผัสใบมีดและชิ้นส่วนเคลื่อนที่ใดอื่นๆ ที่เป็นอันตรายในขณะที่ชิ้นส่วนดังกล่าวยังไม่หยุดนิ่ง ทั้งนี้เพื่อลดอันตรายต่อการบาดเจ็บจากชิ้นส่วนที่เคลื่อนที่

- ▶ ขณะนำวัสดุที่ติดอยู่หรือหักออกจากความสะอาดเครื่องตัดหญ้า โปรดตรวจสอบให้แน่ใจว่าสวิตช์ทุกตัวอยู่ในตำแหน่ง "ปิด" และนำแบตเตอรี่ออกแล้ว หากเครื่องตัดหญ้าทำงานโดยไม่คาดคิด อาจก่อให้เกิดการบาดเจ็บร้ายแรงได้

คำแนะนำเพื่อความปลอดภัยเพิ่มเติม

- ▶ เครื่องมือมีส่วนประกอบของแม่เหล็ก - ห้ามจัดวางแม่เหล็กไว้ใกล้กับอวัยวะเทียมและอุปกรณ์ทางการแพทย์อื่นๆ เช่น เครื่องกระตุ้นหัวใจหรือปั๊มอินซูลิน รวมถึงอุปกรณ์เก็บข้อมูลที่มีคุณสมบัติแม่เหล็กและอุปกรณ์ที่ไวต่อแรงดึงดูดแม่เหล็ก แม่เหล็กจะสร้างสนามแม่เหล็ก ซึ่งอาจรบกวนการทำงานของอุปกรณ์ทางการแพทย์ หรือทำให้ข้อมูลสูญหายโดยไม่สามารถเรียกคืนได้

- ▶ ในขณะที่ปรับตั้งเครื่อง โปรดระมัดระวังไม่ให้นิ้วมือเข้าไปติดระหว่างใบมีดที่เคลื่อนที่ได้และชิ้นส่วนถาวรของเครื่อง

- ▶ ตรวจสอบความเสียหายที่ผลิตภัณฑ์ หากชนกับวัตถุแข็ง หรือมีการสั่นสะเทือนมากเกินไป

- ▶ บ่อยครั้งที่ให้ระบายน้ำมันก่อนการจัดเก็บ

- ▶ เทเศษออกจากถังเก็บเศษหญ้าก่อนการจัดเก็บ

การใช้งาน

- ▶ ไม่มีจะต้องอยู่ใกล้กับเครื่องมือเมื่อคุณจำเป็นต้องเอียงเครื่องเพื่อเคลื่อนย้าย เมื่อต้องข้ามบริเวณที่ไม่ได้ปลุกหญ้า และเมื่อต้องเคลื่อนย้ายเครื่องมือไปมาในบริเวณที่ต้องการตัดหญ้า
- ▶ ห้ามเอียงเครื่องมือสำหรับงานสวนขณะสตาร์ทหรือเริ่มการทำงานมอเตอร์
- ▶ เปิดใช้งานเครื่องมือสำหรับงานสวนดังที่ระบุไว้ในคู่มือการใช้งาน และตรวจสอบให้แน่ใจว่าเท้าของคุณอยู่ห่างจากชิ้นส่วนเครื่องที่หมุนอยู่มาเพียงพอ
- ▶ ห้ามยืนมือและเท้าเข้าใกล้หรืออยู่ใต้ชิ้นส่วนที่หมุนอยู่
- ▶ รักษาระยะห่างจากบริเวณปล่อยเศษเมื่อปฏิบัติงานโดยใช้เครื่องมือสำหรับงานสวน
- ▶ ห้ามยกหรือถือเครื่องมือสำหรับงานสวนในขณะที่มอเตอร์ทำงาน
- ▶ ตรวจสอบตำแหน่งของสายไฟขณะพับมือจับเข้าหากันในตำแหน่งจัดเก็บ เพื่อป้องกันไม่ให้สายไฟเสียหายหรือเข้าไปติด
- ▶ เครื่องตัดหญ้าจะไม่เริ่มทำงานหากมือจับยังพับอยู่ในตำแหน่งจัดเก็บ
- ▶ ตรวจสอบให้แน่ใจเมื่อต้องการจัดเก็บเครื่องตัดหญ้าโดยวางในแนวนอนว่าได้นำแบตเตอรี่ออกและปิดใช้งานเซอร์กิตเบรกเกอร์แล้ว
- ▶ ตรวจสอบให้แน่ใจเมื่อต้องการจัดเก็บเครื่องตัดหญ้าโดยวางในแนวตั้งว่าไม่มีเศษหญ้าติดที่นำแบตเตอรี่ออก และปิดใช้งานเซอร์กิตเบรกเกอร์แล้ว
- ▶ ยกเครื่องมือสำหรับงานสวนโดยใช้ตามถือเท่านั้น จัดการตามถือด้วยความระมัดระวัง

การปลดเซอร์กิตเบรกเกอร์

- ในระหว่างการขนย้ายเครื่องตัดหญ้า
- ทุกครั้งที่คุณอยู่ห่างจากเครื่องมือสำหรับงานสวน
- ก่อนการแก้ไขสิ่งกีดขวางอุดตัน
- เมื่อตรวจสอบเครื่อง ทำความสะอาด หรือปฏิบัติงานที่เครื่อง
- หลังจากชนเข้ากับวัตถุแปลกปลอม โดยให้ตรวจหาความชำรุดเสียหายที่เครื่องมือและเปลี่ยนใบมีดหากจำเป็น
- เมื่อเครื่องมือเริ่มสิ้นอายุขัยผิดปกติ (ตรวจสอบเช็คทันที)

คำแนะนำ สำหรับการจัดการ ที่ดีที่สุด กับแบตเตอรี่

- ▶ อย่าเปิดแบตเตอรี่ อันตรายจากการลัดวงจร



ปกป้องแบตเตอรี่แบบชาร์จได้จากความร้อน (รวมถึงแสงแดดที่ส่องอย่างต่อเนื่อง เป็นต้น) รวมทั้งจากไฟ น้ำ และความชื้น ระมัดระวังอันตรายจากการระเบิด



- ▶ เมื่อเกิดความชำรุดเสียหายและมีการใช้งานอย่างไม่เหมาะสม โอรเทกจากแบตเตอรี่อาจเล็ดลอดออกมา ควรระบายอากาศในบริเวณนั้นและปรึกษาแพทย์หากพบอาการผิดปกติ โอรเทกอาจก่อให้เกิดการระคายเคืองระบบทางเดินหายใจได้

- ▶ ใช้แบตเตอรี่แพคเกจเฉพาะในผลิตภัณฑ์ของผู้ผลิตเท่านั้น ในลักษณะนี้ แบตเตอรี่แพคเกจจะได้รับการปกป้องจากการใช้งานเกินกำลังซึ่งเป็นอันตราย
- ▶ วัตถุที่แหลมคม ต. ย. เช่น ตะปูหรือไขควง หรือแรงกระทำภายนอก อาจทำให้แบตเตอรี่เสียหายได้ สิ่งเหล่านี้อาจทำให้เกิดการลัดวงจรภายในและแบตเตอรี่ใหม่ มีควันระเบิด หรือร้อนเกินไป
- ▶ อย่า ลัดวงจร แบตเตอรี่ มีความเสี่ยง ที่จะเกิด การระเบิด
- ▶ ทำความสะอาดช่องระบายอากาศเป็นครั้งคราวโดยใช้แปรงขนอ่อนที่แห้งและสะอาด
- ▶ ชาร์จ เครื่อง ด้วย เครื่องชาร์จ แบตเตอรี่ ที่ จัดส่งมาเท่านั้น

สัญลักษณ์

สัญลักษณ์ต่อไปนี้มีความสำคัญต่อการอ่านและการทำความเข้าใจคู่มือการใช้งานเครื่อง กรุณาจดจำสัญลักษณ์และความหมายของสัญลักษณ์ การแปลความสัญลักษณ์ใด ถูกต้องจะช่วยให้ท่านใช้เครื่องได้ดีและปลอดภัยกว่า

สัญลักษณ์	ความหมาย
	ทิศทางการเคลื่อนที่
	ทิศทางการตอบสนอง
	สวมถุงมือนิรภัย
	สวมรองเท้าที่ปลอดภัย
	น้ำหนัก
	การเปิดใช้งาน
	การปิดใช้งาน
	การใช้งานที่อนุญาต
	การใช้งานที่ไม่อนุญาต
CLICK!	เสียงที่ได้ยิน
	อุปกรณ์เสริม/ชิ้นส่วนอะไหล่

คำอธิบายผลิตภัณฑ์และบริการ



โปรดอ่านคำแนะนำด้านความปลอดภัยและวิธีการใช้งานทั้งหมดให้ครบถ้วน การไม่ปฏิบัติตามคำแนะนำด้านความปลอดภัยและวิธีการใช้

งานอาจเป็นสาเหตุให้เกิดไฟฟ้าดูด ไฟไหม้ และ/หรือการบาดเจ็บร้ายแรงได้

โปรดดูภาพประกอบในส่วนท้ายของคู่มือการใช้งานนี้

เครื่องมือสำหรับงานสวนนี้ไม่เหมาะสำหรับงานตัดพุ่มไม้ งานตัดแต่งกิ่งไม้ และงานสับย่อยพืช

เครื่องมือนี้เหมาะสำหรับงานตัดหญ้าที่ความสูงระดับพื้นโดยเฉพาะ

การใช้งานอย่างตรงตามวัตถุประสงค์

เครื่องมือสำหรับงานสวนนี้ออกแบบมาสำหรับใช้ตัดหญ้า

ข้อมูลทางเทคนิค

เครื่องตัดหญ้า		GRA 18V2-46
หมายเลขสินค้า		3 600 HC8 0..
แรงดันไฟฟ้าพิกัด ^{A)}	โวลท์	36 โวลท์ (2 x 18 โวลท์)
ความกว้างในการตัด	ซม.	46
ความสูงในการตัด	มม.	30–70
ความจุ, ถังเก็บเศษหญ้า	ลิตร	60
น้ำหนักตามมาตรฐาน IEC 62841-1/ IEC 62841-4-3 ^{A)}	กก.	27.7
หมายเลขลำดับการผลิต		ดูแผ่นป้ายระบุประเภทที่เครื่องมือสำหรับงานสวน
อุณหภูมิโดยรอบที่แนะนำเมื่อชาร์จ	°C	0 ... +35
อุณหภูมิโดยรอบที่อนุญาตเมื่อใช้งาน ^{B)} และเมื่อจัดเก็บ	°C	-20 ... +50
แบตเตอรี่ที่ใช้งานร่วมกันได้		GBA18V... GBA 18V... ProCORE18V... EXPERT18V... EXBA18V... CORE18V...
แบตเตอรี่ที่แนะนำสำหรับการทำงานอย่างเต็มประสิทธิภาพ		GBA 18V... ≥ 4.0 Ah ProCORE18V... ≥ 4.0 Ah EXPERT18V...
เครื่องชาร์จที่แนะนำ		GAL18... GAL 18... GAL 36... GAL12V/18... GAL 12V/18... GAX 18... EXAL18...

A) ขึ้นอยู่กับแบตเตอรี่แบบชาร์จได้ที่ใช้งาน

B) สมรรถภาพจะน้อยลงที่อุณหภูมิ < 0 °C

แบตเตอรี่แบบชาร์จได้

Bosch จำหน่ายเครื่องมือไฟฟ้าไร้สายไม่รวมแบตเตอรี่แพ็คด้วยเช่นกัน คุณสามารถดูได้จากบรรจุภัณฑ์ว่า ขอบเขตการจัดส่งเครื่องมือไฟฟ้าของคุณมีแบตเตอรี่แพ็คหรือไม่

การชาร์จแบตเตอรี่

- ▶ ใช้เฉพาะเครื่องชาร์จแบตเตอรี่ที่ระบุในข้อมูลทางเทคนิคเท่านั้น เฉพาะเครื่องชาร์จแบตเตอรี่เหล่านี้เท่านั้นที่เข้า

ชุดกับแบตเตอรี่ลิเธียม ไอออน ของเครื่องมือไฟฟ้าของท่าน

หมายเหตุ: แบตเตอรี่ลิเธียมไอออนจะจัดส่งโดยได้รับการชาร์จเพียงบางส่วนเนื่องด้วยข้อกำหนดด้านการขนส่งระหว่างประเทศ เพื่อให้แน่ใจว่าแบตเตอรี่จะทำงานได้อย่างสมบูรณ์แบบ ก่อนใช้งานครั้งแรกให้ชาร์จแบตเตอรี่จนเต็ม

การใส่แบตเตอรี่

- ▶ เครื่องมือนี้ออกแบบมาสำหรับการใช้งานกับแบตเตอรี่ 2 ก้อนเท่านั้น และเครื่องมือจะไม่ทำงานหากแบตเตอรี่ก้อนใด

ก่อนหนึ่งคายประจุนหมด ใช้งานแบตเตอรี่ที่มีสถานะการชาร์จระดับเดียวกันเสมอ และห้ามใช้แบตเตอรี่ที่ชาร์จประจุเต็มและชาร์จประจุบางส่วนรวมกัน เนื่องจากระยะเวลาใช้งานจะกำหนดตามแบตเตอรี่ที่มีระดับการชาร์จน้อยที่สุดเสมอ

หมายเหตุ: หากใช้แบตเตอรี่ที่ไม่เหมาะสม อาจทำให้เครื่องทำงานผิดปกติหรือเกิดความเสียหายได้

ใส่แบตเตอรี่ที่ชาร์จแล้วเข้าไป ตรวจสอบให้แน่ใจว่าใส่แบตเตอรี่เขาไปจนสุดแล้ว

เลื่อนแบตเตอรี่ที่ชาร์จแล้วเข้าไปในช่องใส่แบตเตอรี่จนกระทั่งเขาล็อค

การถอดแบตเตอรี่

แบตเตอรี่มาพร้อมระบบล็อค 2 ชั้น ซึ่งช่วยป้องกันไม่ให้แบตเตอรี่ตกเมื่อมีการกดปุ่มปลดล็อคแบตเตอรี่โดยไม่ตั้งใจ ตลอดเวลาที่แบตเตอรี่อยู่ในเครื่องมือไฟฟ้า แบตเตอรี่จะได้รับการยึดไว้ด้วยสปริง

หากต้องการถอดแบตเตอรี่ ให้กดปุ่มปลดล็อคแบตเตอรี่ แล้วดึงแบตเตอรี่ออกมา **อย่าไขว้แรงเพื่อางออก**

ไฟแสดงสถานะการชาร์จแบตเตอรี่

หมายเหตุ: ไม่ใช่แบตเตอรี่ทุกประเภทที่จะมีไฟแสดงระดับการชาร์จ

ไฟ LED สีเขียวของการแสดงสถานะการชาร์จแบตเตอรี่แสดงสถานะการชาร์จของแบตเตอรี่ ด้วยเหตุผลด้านความปลอดภัยท่านสามารถตรวจสอบสถานะการชาร์จเฉพาะเมื่อเครื่องมือไฟฟ้าหยุดสนิทเท่านั้น

กดปุ่มสำหรับไฟแสดงสถานะการชาร์จแบตเตอรี่ ๑ หรือ ๓ เพื่อแสดงสถานะการชาร์จ ท่านสามารถกดได้เมื่อใดถอดแบตเตอรี่ออกแล้ว

หลังจากกดปุ่มสำหรับไฟแสดงสถานะการชาร์จแบตเตอรี่แล้ว ไฟ LED ไม่ติดขึ้น แสดงว่าแบตเตอรี่บกพร่องและต้องเปลี่ยนใหม่

แบตเตอรี่แบบชาร์จได้รุ่น GBA 18V... | GBA18V...



LED	ความจุ
ไฟส่องสว่างต่อเนื่อง 3× สีเขียว	60–100 %
ไฟส่องสว่างต่อเนื่อง 2× สีเขียว	30–60 %
ไฟส่องสว่างต่อเนื่อง 1× สีเขียว	5–30 %
ไฟกะพริบ 1× สีเขียว	0–5 %

แบตเตอรี่แบบชาร์จได้ระบบ ProCORE18V... | EXPERT18V... | EXBA18V... | CORE18V...



LED	ความจุ
ไฟส่องสว่างต่อเนื่อง 5× สีเขียว	80–100 %
ไฟส่องสว่างต่อเนื่อง 4× สีเขียว	60–80 %

LED	ความจุ
ไฟส่องสว่างต่อเนื่อง 3× สีเขียว	40–60 %
ไฟส่องสว่างต่อเนื่อง 2× สีเขียว	20–40 %
ไฟส่องสว่างต่อเนื่อง 1× สีเขียว	5–20 %
ไฟกะพริบ 1× สีเขียว	0–5 %

การตรวจหาความเสี่ยงต่อการเกิดข้อบกพร่องของแบตเตอรี่

EXPERT18V... | EXBA18V...

นอกเหนือจากการแสดงสถานะการชาร์จแบตเตอรี่แล้ว ไฟ LED ส่วนแสดงสถานะการชาร์จแบตเตอรี่ยังสามารถแสดงความเสี่ยงต่อการเกิดข้อบกพร่องของแบตเตอรี่ได้

เมื่อต้องการเปิดใช้งานฟังก์ชันนี้ ให้กดปุ่มแสดงสถานะการชาร์จแบตเตอรี่ ๓ ครั้งใน 3 วินาที ระบบจะวิเคราะห์แบตเตอรี่และแสดงสัญญาณการทำงานผ่านลักษณะของไฟที่ส่วนแสดงสถานะการชาร์จ จากนั้นจะแสดงผลลัพธ์ที่ส่วนแสดงสถานะการชาร์จแบตเตอรี่

ไฟ LED 1 ดวง: แบตเตอรี่มีความเสี่ยงสูงต่อการเกิดข้อบกพร่อง ประสิทธิภาพและเวลาการทำงานอาจลดลง ขอแนะนำให้เปลี่ยนแบตเตอรี่

ไฟ LED 5 ดวง: แบตเตอรี่อยู่ในสภาพดีและมีความเสี่ยงน้อยต่อการเกิดข้อบกพร่อง

ข้อควรทราบ: ฟังก์ชันประเมินความเสี่ยงต่อการเกิดข้อบกพร่องของแบตเตอรี่มีการทำงานสองระดับและให้การประเมินสถานะที่ไม่ซับซ้อน แบตเตอรี่อาจได้รับการประเมินว่าอยู่ในสภาพดีหรืออยู่ในสถานะที่มีความเสี่ยงสูงต่อการเกิดข้อบกพร่อง โดยไม่ได้มีการแสดงสถานะของแบตเตอรี่เป็นค่าเปอร์เซ็นต์

การติดตั้งและใช้งาน

การใช้งานที่ต้องการ	ภาพประกอบ	หน้า
อุปกรณ์ที่รวมอยู่ในชุด ^{A)}	A	3
การพับโครงมือจับออกและติดตั้ง	B-D	4 – 5
การปรับความสูงในการทำงาน		
การใส่/ถอดถุงเก็บเศษหญ้า	E	5
การปรับความสูงในการตัด	F	6
การใส่แบตเตอรี่ทั้งสองก้อน	G	6
การใช้งาน	H	7
- การใส่เซอร์กิตเบรกเกอร์		
- การเปิดใช้งาน		
- การปิดใช้งาน		
- การถอดเซอร์กิตเบรกเกอร์		
การถอดแบตเตอรี่ทั้งสองก้อน	I	8
คำแนะนำการทำงาน "ตัดหญ้า"	J	8
คำแนะนำการทำงาน "คลุมดิน"	K	9

การใช้งานที่ต้องการ	ภาพประกอบ	หน้า
การบำรุงรักษาใบมีด/การเปลี่ยนใบมีด	L	9
การจัดเก็บ	M	10
การเลือกอุปกรณ์เสริม	N	11

A) อุปกรณ์เสริมนี้ไม่อยู่ในรายการอุปกรณ์มาตรฐานที่จัดส่ง

ออกแบบมาให้ใช้กับแบตเตอรี่ลิเธียมไอออนที่ใช้ในผลิตภัณฑ์ของคุณ

ฟังก์ชันคลุมดิน

นำถุงเก็บเศษหญ้าออก แล้วเลื่อนอะแดปเตอร์ฟังก์ชันคลุมดินเข้าไปในช่องเปิดของระบบปล่อยเศษ ปิดฝาช่องปล่อย ถอดอะแดปเตอร์ฟังก์ชันคลุมดินเมื่อคุณกลับมาใช้ถุงเก็บเศษหญ้า

คำแนะนำในการปฏิบัติงาน

ประสิทธิภาพการตัด (ระยะเวลาใช้งานแบตเตอรี่)

ประสิทธิภาพการตัด (ระยะเวลาใช้งานแบตเตอรี่) ขึ้นอยู่กับคุณสมบัติของหญ้า เช่น ความหนาแน่น ความชื้น และความยาวของหญ้า ตลอดจนระดับความสูงในการตัด นอกจากนี้ การเปิดและปิดใช้งานเครื่องมือบ่อยๆ ในระหว่างการตัดหญ้าจะทำให้ประสิทธิภาพการตัด (ระยะเวลาใช้งานแบตเตอรี่) ลดลงเช่นกัน เพื่อให้การตัด (ระยะเวลาใช้งานแบตเตอรี่) มีประสิทธิภาพสูงสุด ขอแนะนำให้ตัดหญ้าบ่อยขึ้น ขยายความสูงในการตัดและเดินในจังหวะที่เหมาะสม

การใช้งาน

เพื่อความปลอดภัย

- ▶ **ข้อควรระวัง!** โปรดปิดใช้งานเครื่องมือสำหรับงานสวน ปลดเชอร์กิตเบรกเกอร์ และถอดแบตเตอรี่ออกก่อนที่จะทำงานบำรุงรักษาหรือทำความสะอาดเครื่อง เช่นเดียวกับเมื่อสายเชื่อมต่อสวิตช์ชำรุดเสียหาย ตัดขาด หรือพันกัน
- ▶ หลังจากปิดใช้งานเครื่องมือแล้ว ใบมีดจะหมุนต่ออีกประมาณสองสามวินาที
- ▶ **ข้อควรระวัง:** ห้ามสัมผัสใบมีดที่หมุนอยู่
- ▶ ใช้เฉพาะเครื่องชาร์จแบตเตอรี่ที่ระบุในข้อมูลทางเทคนิคเท่านั้น เฉพาะเครื่องชาร์จเหล่านี้เท่านั้นที่ได้รับการ

การค้นหาคำผิดปกติ



อาการ	สาเหตุที่เป็นไปได้	มาตรการแก้ไข
มอเตอร์ไม่เริ่มทำงาน	ชุดสายไฟภายในของเครื่องมือสำหรับงานสวนชำรุดเสียหาย	ติดต่อศูนย์บริการลูกค้าของบอช
	แบตเตอรี่หนึ่งหรือสองก้อนหมดประจุ	ชาร์จแบตเตอรี่
	แบตเตอรี่หนึ่งหรือสองก้อนเย็นเกินไป/ร้อนเกินไป	ปล่อยให้แบตเตอรี่ร้อนขึ้น/เย็นลง
	หญ้ายาวเกินไป	ขีดจำกัดความสูงที่รองรับของหญ้าอยู่ที่ 20 ซม. เมื่อปรับตั้งความสูงในการตัดไว้ในระดับสูงสุด
	ระบบป้องกันมอเตอร์ถูกกระตุ้นให้ทำงาน	ปล่อยให้มอเตอร์เย็นลงและปรับความสูงในการตัดให้มากขึ้น
	ใส่เชอร์กิตเบรกเกอร์ไม่ถูกต้อง/ไม่สมบูรณ์	ใส่ให้ถูกต้อง
เครื่องมือสำหรับงานสวนทำงานติดขัดบางช่วง	เชอร์กิตเบรกเกอร์ไม่ได้หมุนเข้าในตำแหน่ง ON จนสุด	หมุนเข้าไปในตำแหน่ง ON จนสุด
	ใส่แบตเตอรี่หนึ่งหรือสองก้อนไม่ถูกต้อง	ใส่แบตเตอรี่ให้ได้น้ำสัมผัสที่ถูกต้อง
	ค้ำจับอยู่ในตำแหน่งจัดเก็บ	พับค้ำจับให้อยู่ในตำแหน่งใช้งาน
	ระบบป้องกันมอเตอร์ถูกกระตุ้นให้ทำงาน	ปล่อยให้มอเตอร์เย็นลงและปรับความสูงในการตัดให้มากขึ้น
เครื่องมือให้คมตัดที่ไม่สม่ำเสมอและ/หรือมอเตอร์ทำงานหนัก	ความสูงในการตัดน้อยเกินไป	ปรับความสูงในการตัดให้มากขึ้น
	ใบมีดที่อ	เปลี่ยนใบมีด (ดูภาพประกอบ L)
	อาจมีสิ่งกีดขวาง	ปิดใช้งานเครื่องและนำเชอร์กิตเบรกเกอร์ออก

อาการ	สาเหตุที่เป็นไปได้	มาตรการแก้ไข
	ติดตั้งใบมีดผิดด้าน	ติดตั้งใบมีดให้ถูกต้อง
ใบมีดไม่หมุนหลังจากเปิดใช้งานเครื่องมือ	มีเพิกาก็คขวางใบมีด	ปิดใช้งานเครื่องและปลดเซอร์กิตเบรกเกอร์ (ดูภาพประกอบ L)
	น็อต/สกรูใบมีดหลวม	ขันน็อต/สกรูใบมีดให้แน่น (25–30 Nm)
การสั่นสะเทือน/เสียงดังผิดปกติ	น็อต/สกรูใบมีดหลวม	ขันน็อต/สกรูใบมีดให้แน่น (25–30 Nm)
	ใบมีดชำรุดเสียหาย	เปลี่ยนใบมีด (ดูภาพประกอบ L)
ถุงเก็บเศษหญ้าไม่เต็ม	อาจมีการอุดตันเกิดขึ้น	ทำความสะอาดเศษวัสดุออกจากถุง เพื่อกำจัดการอุดตันในรูและช่วยให้อากาศไหลผ่านได้ดีขึ้น

การบำรุงรักษาและการบริการ

การบำรุงรักษา ทำความสะอาด และจัดเก็บ

► ถอดแบตเตอรี่ออกจากเครื่องมือสำหรับงานสวนก่อนการทำงานทุกประเภท (เช่น การบำรุงรักษา การเปลี่ยนเครื่องมือ เป็นต้น) ที่เครื่องมือ รวมถึงเมื่อเคลื่อนย้ายและจัดเก็บ เนื่องจาก การส่งงานสวิตช์เปิด-ปิดโดยไม่ตั้งใจขณะทำงานดังกล่าวอาจก่อให้เกิดความเสี่ยงต่อการบาดเจ็บได้

► ดูแลรักษาผลิตภัณฑ์ให้สะอาดเพื่อการทำงานที่ดีและปลอดภัย

ดูแลรักษาผลิตภัณฑ์และช่องระบายอากาศให้สะอาดเพื่อการทำงานที่ดีและปลอดภัย

ห้ามใช้น้ำพ่นที่ตัวผลิตภัณฑ์

อย่าให้ผลิตภัณฑ์แช่น้ำ

จัดเก็บผลิตภัณฑ์ในที่ปลอดภัย แห้ง และอยู่ห่างจากเด็ก

ห้ามวางสิ่งของอื่นไว้บนผลิตภัณฑ์

ตรวจสอบให้แน่ใจว่า น็อต, โบลท์, สกรู ทุกตัวขันแน่น เพื่อให้ใช้ผลิตภัณฑ์ในการทำงานได้อย่างปลอดภัย

ตรวจสอบผลิตภัณฑ์และเปลี่ยนชิ้นส่วนที่สึกหรอหรือชำรุดเสียหาย เพื่อให้มั่นใจได้ถึงความปลอดภัย

ตรวจสอบให้แน่ใจว่า ชิ้นส่วนที่ต้องการเปลี่ยนใหม่มาจากบ็อกซ์ห้ามทำการเปลี่ยนแปลงเครื่องมือ

ห้ามดัดแปลงเครื่องมือ การดัดแปลงแก้ไขที่ไม่ได้รับอนุญาต อาจส่งผลต่อความปลอดภัยของผลิตภัณฑ์และเสี่ยงต่อการบาดเจ็บเพิ่มมากขึ้น

การบำรุงรักษา แบตเตอรี่

เพื่อให้สามารถใช้งานแบตเตอรี่ได้อย่างเหมาะสมที่สุด ให้ปฏิบัติตามขั้นตอนต่อไปนี้:

- ปกป้องแบตเตอรี่จากความชื้นและน้ำ
- เก็บเครื่องและแบตเตอรี่เฉพาะในช่วงอุณหภูมิระหว่าง -20 °C ถึง 50 °C เท่านั้น เช่น อย่าวางแบตเตอรี่ทิ้งไว้ในรถยนต์ในฤดูร้อน
- อย่าเก็บแบตเตอรี่ไว้ในผลิตภัณฑ์ แต่ให้จัดเก็บแยกต่างหาก

- อย่าใส่แบตเตอรี่ทิ้งไว้ในผลิตภัณฑ์ที่มีแสงแดดส่องถึงโดยตรง
 - อุณหภูมิที่เหมาะสมสำหรับจัดเก็บแบตเตอรี่คือ 5 °C
 - ทำความสะอาดช่องระบายอากาศเป็นครั้งคราวโดยใช้แปรงขนอ่อนที่แห้งและสะอาด
- หากระยะเวลาทำงานลดลงอย่างมากหลังจากชาร์จไฟแล้ว แสดงว่าแบตเตอรี่จะหมดไฟและต้องเปลี่ยนใหม่

การบริการหลังการขายและการให้คำปรึกษาการใช้

ไทย

โทร: +66 2012 8888

คุณสามารถดูลิงก์ไปยังที่อยู่ฝ่ายบริการและเงื่อนไขการรับประกันได้ในหน้าสุดท้ายของเอกสาร

เมื่อต้องการสอบถามและสั่งซื้ออะไหล่ กรุณาแจ้งหมายเลขสินค้า 10 หลักบนแผ่นป้ายรุ่นของผลิตภัณฑ์ทุกครั้ง

การกำจัดขยะ

เครื่องมือไฟฟ้า แบตเตอรี่แพ็ค อุปกรณ์ประกอบ และหีบห่อต้องนำไปแยกประเภทวัสดุเพื่อนำกลับมาใช้

ใหม่โดยไม่ทำลายสภาพแวดล้อม

อย่าทิ้งเครื่องมือไฟฟ้าและแบตเตอรี่แพ็ค/แบตเตอรี่ที่นำกลับมาใช้ใหม่ได้ ลงในขยะบ้าน!



Bahasa Indonesia

Petunjuk keselamatan

Deskripsi simbol pada mesin pemotong rumput



Petunjuk umum adanya bahaya.



Bacalah petunjuk pengoperasian.



Pastikan orang-orang di sekitar tidak terluka oleh benda yang terlempar.



PERINGATAN: Jauhkan dari orang yang berada di sekitar alat.



PERINGATAN: Jauhkan tangan dan kaki dari mata pisau.



PERINGATAN: Pisahkan baterai sebelum pekerjaan perawatan.



PERINGATAN: Lepaskan perangkat pengunci sebelum melakukan perawatan.



Tidak berlaku.



Tunggu hingga semua komponen perkakas taman sepenuhnya berhenti bergerak sebelum menyentuhnya. Mata pisau masih tetap berputar setelah perkakas taman dimatikan sehingga dapat menyebabkan cedera.



Jangan gunakan saat hujan.



Tidak berlaku.



Jangan gunakan alat pembersih bertekanan tinggi atau slang taman untuk membersihkan perkakas taman.



Periksa dengan cermat area pengoperasian perkakas taman dari keberadaan hewan liar dan hewan peliharaan. Hewan liar dan hewan peliharaan terluka oleh mesin saat beroperasi. Periksa dengan cermat area pengoperasian mesin dan

singkirkan semua batu, ranting, kawat, tulang, dan benda asing. Saat menggunakan mesin, pastikan tidak ada hewan liar, hewan peliharaan, atau tunggul pohon kecil yang tersembunyi di antara rumput yang rimbun.

Petunjuk keselamatan umum untuk perkakas listrik

PERINGATAN Baca semua peringatan, petunjuk, ilustrasi, dan spesifikasi

keselamatan yang diberikan bersama perkakas listrik ini. Kesalahan dalam menjalankan petunjuk di bawah ini dapat mengakibatkan sengatan listrik, kebakaran, dan/atau cedera serius.

Simpanlah semua peringatan dan petunjuk untuk penggunaan di masa mendatang.

Istilah "perkakas listrik" dalam peringatan mengacu pada perkakas listrik yang dioperasikan dengan listrik (menggunakan kabel) atau perkakas listrik yang dioperasikan dengan baterai (tanpa kabel).

Keamanan tempat kerja

- **Jaga kebersihan dan pencahayaan area kerja.** Area yang berantakan atau gelap dapat memicu kecelakaan.
- **Jangan mengoperasikan perkakas listrik di lingkungan yang dapat memicu ledakan, seperti adanya cairan, gas, atau debu yang mudah terbakar.** Perkakas listrik dapat memancarkan bunga api yang kemudian mengakibatkan debu atau uap terbakar.
- **Jauhkan dari jangkauan anak-anak dan pengamat saat mengoperasikan perkakas listrik.** Gangguan dapat menyebabkan hilangnya kendali.

Keamanan listrik

- **Perkakas listrik tidak boleh terpapar hujan atau basah.** Air yang masuk ke dalam perkakas listrik menambah risiko terjadinya sengatan listrik.

Keselamatan personel

- **Tetap waspada, perhatikan aktivitas yang sedang dikerjakan dan gunakan akal sehat saat mengoperasikan perkakas listrik. Jangan gunakan perkakas listrik saat mengalami kelelahan atau di bawah pengaruh narkoba, alkohol, atau obat-obatan.** Jika perkakas listrik dioperasikan dengan daya konsentrasi yang rendah, hal tersebut dapat menyebabkan cedera serius.
- **Gunakan peralatan pelindung diri. Selalu kenakan pelindung mata.** Penggunaan perlengkapan pelindung seperti penutup telinga, helm, sepatu anti licin, dan masker debu akan mengurangi cedera.
- **Hindari start yang tidak disengaja. Pastikan switch berada di posisi off sebelum perkakas listrik dihubungkan ke sumber daya listrik dan/atau baterai, diangkat, atau dibawa.** Membawa perkakas listrik dengan jari menempel pada tombol atau perkakas listrik dalam keadaan hidup dapat memicu kecelakaan.
- **Singkirkan kunci penyetel atau kunci pas sebelum menghidupkan perkakas listrik.** Perkakas atau kunci

pas yang masih menempel pada komponen perkakas listrik yang berputar dapat menyebabkan cedera.

- ▶ **Jangan melampaui batas. Berdirilah secara mantap dan selalu jaga keseimbangan.** Hal ini akan memberikan kontrol yang lebih baik terhadap perkakas listrik pada situasi yang tak terduga.
- ▶ **Kenakan pakaian dengan wajar. Jangan mengenakan perhiasan atau pakaian yang longgar. Jauhkan rambut dan pakaian dari komponen yang bergerak.** Pakaian yang longgar, rambut panjang, atau perhiasan dapat tersangkut dalam komponen yang bergerak.
- ▶ **Jika disediakan perangkat untuk sambungan pengisapan debu dan alat pengumpulan, pastikan perangkat tersebut terhubung dan digunakan dengan benar.** Penggunaan alat pengumpulan dapat mengurangi bahaya yang disebabkan oleh debu.
- ▶ **Jangan berpuas diri dan mengabaikan prinsip keselamatan karena terbiasa mengoperasikan perkakas.** Tindakan yang kurang hati-hati dapat mengakibatkan cedera serius dalam waktu sepersekian detik.

Penggunaan dan pemeliharaan perkakas listrik

- ▶ **Jangan memaksakan perkakas listrik. Gunakan perkakas listrik yang sesuai untuk pekerjaan yang dilakukan.** Perkakas listrik yang sesuai akan bekerja dengan lebih baik dan aman sesuai tujuan penggunaan.
- ▶ **Jangan gunakan perkakas listrik dengan switch yang tidak dapat dioperasikan.** Perkakas listrik yang switchnya yang tidak berfungsi dapat menimbulkan bahaya dan harus diperbaiki.
- ▶ **Lepaskan steker dari sumber listrik dan/atau lepas baterai, jika dapat dilepaskan dari perkakas listrik sebelum menyatel, mengganti aksesoris, atau menyimpan perkakas listrik.** Tindakan preventif akan mengurangi risiko menghidupkan perkakas listrik secara tidak disengaja.
- ▶ **Jauhkan dan simpan perkakas listrik dari jangkauan anak-anak dan jangan biarkan orang-orang yang tidak mengetahui cara menggunakan perkakas listrik, mengoperasikan perkakas listrik.** Perkakas listrik dapat membahayakan jika digunakan oleh orang-orang yang tidak terlatih.
- ▶ **Lakukan pemeliharaan perkakas listrik dan aksesoris.** Periksa komponen yang bergerak apabila tidak lurus atau terikat, kerusakan komponen, dan kondisi lain yang dapat mengganggu pengoperasian perkakas listrik. Apabila rusak, perbaiki perkakas listrik sebelum digunakan. Kecelakaan sering terjadi karena perkakas listrik tidak dirawat dengan baik.
- ▶ **Jaga ketajaman dan kebersihan alat.** Alat pemotong dengan pisau pemotong yang tajam dan dirawat dengan baik tidak akan mudah tersangkut dan lebih mudah dikendalikan.
- ▶ **Gunakan perkakas listrik, aksesoris, dan komponen perkakas dll sesuai dengan petunjuk ini, dengan mempertimbangkan kondisi kerja dan pekerjaan yang**

akan dilakukan. Penggunaan perkakas listrik untuk tujuan berbeda dari fungsinya dapat menyebabkan situasi yang berbahaya.

- ▶ **Jaga gagang dan permukaan genggam agar tetap kering, bersih, dan bebas dari minyak dan lemak.** Gagang dan permukaan genggam yang licin tidak menjamin keamanan kerja dan kontrol alat yang baik pada situasi yang tidak terduga.

Penggunaan dan pemeliharaan perkakas baterai

- ▶ **Isi ulang daya hanya dengan pengisi daya yang ditentukan oleh produsen.** Pengisi daya yang sesuai untuk satu jenis set baterai dapat menyebabkan risiko kebakaran apabila digunakan dengan set baterai lain.
- ▶ **Hanya gunakan perkakas listrik dengan set baterai yang dirancang khusus.** Penggunaan set baterai lain dapat menyebabkan risiko cedera dan kebakaran.
- ▶ **Apabila set baterai tidak digunakan, jauhkan dari benda logam lainnya, seperti klip kertas, koin, kunci, paku, sekrup, atau benda logam kecil lainnya yang dapat membuat sambungan dari satu terminal ke terminal lainnya.** Memendekkan terminal baterai dapat menyebabkan kebakaran atau api.
- ▶ **Cairan dapat keluar dari baterai jika baterai tidak digunakan dengan benar; hindari kontak. Jika terjadi kontak secara tidak disengaja, bilas dengan air. Jika cairan mengenai mata, segera hubungi bantuan medis.** Cairan yang keluar dari baterai dapat menyebabkan iritasi atau luka bakar.
- ▶ **Jangan gunakan set baterai atau perkakas yang rusak atau telah dimodifikasi.** Baterai yang rusak atau telah dimodifikasi dapat menimbulkan kejadian yang tak terduga seperti kebakaran, ledakan, atau risiko cedera.
- ▶ **Jangan meletakkan set baterai atau perkakas di dekat api atau suhu tinggi.** Paparan terhadap api atau suhu di atas 130 °C dapat memicu ledakan.
- ▶ **Ikuti semua petunjuk pengisian daya dan jangan mengisi daya set baterai atau perkakas di luar rentang suhu yang ditentukan dalam petunjuk.** Pengisian daya yang tidak tepat atau di luar rentang suhu yang ditentukan dapat merusak baterai dan meningkatkan risiko kebakaran.

Servis

- ▶ **Minta teknisi berkualifikasi untuk menyervis perkakas listrik dengan hanya menggunakan suku cadang yang identik.** Dengan demikian, hal ini akan memastikan keamanan perkakas listrik.
- ▶ **Jangan pernah melakukan servis pada baterai yang telah rusak.** Servis baterai hanya boleh dilakukan oleh produsen atau penyedia servis resmi.

Petunjuk keselamatan untuk mesin potong rumput

- ▶ **Jangan gunakan mesin potong rumput dalam kondisi cuaca buruk, terutama saat ada risiko petir.** Hal ini mengurangi risiko tersambar petir.

- ▶ **Periksa dengan cermat area pengoperasian mesin potong rumput dari keberadaan hewan liar.** Hewan liar dapat terluka oleh mesin potong rumput saat beroperasi.
- ▶ **Periksa dengan cermat area pengoperasian mesin potong rumput dan singkirkan semua batu, kayu, kawat, tulang, serta benda asing lainnya.** Benda yang terlempar dapat menyebabkan cedera.
- ▶ **Sebelum menggunakan mesin potong rumput, selalu lakukan pemeriksaan visual untuk memastikan mata pisau dan rakitan mata pisau tidak rusak atau mengalami keausan.** Komponen yang aus atau rusak meningkatkan risiko cedera.
- ▶ **Periksa wadah penampung rumput secara berkala dari keausan atau kerusakan.** Wadah penampung rumput yang rusak atau mengalami dapat meningkatkan risiko cedera.
- ▶ **Biarkan semua perlengkapan pelindung terpasang. Perlengkapan pelindung harus berfungsi dengan baik dan terpasang dengan benar.** Perlengkapan pelindung yang longgar, rusak, atau tidak berfungsi dengan benar dapat menyebabkan cedera.
- ▶ **Pastikan semua slot ventilasi bebas dari kotoran.** Slot ventilasi yang tersumbat dan kotoran dapat menyebabkan panas berlebih atau risiko kebakaran.
- ▶ **Saat menggunakan mesin potong rumput, selalu kenakan sepatu pelindung antiselip. Jangan operasikan mesin potong rumput tanpa alas kaki atau menggunakan sandal terbuka.** Hal ini mengurangi risiko cedera pada kaki akibat kontak dengan mata pisau yang bergerak.
- ▶ **Saat menggunakan mesin potong rumput, selalu kenakan celana panjang.** Kulit yang tidak terlindungi meningkatkan risiko cedera akibat benda yang terlempar.
- ▶ **Jangan operasikan mesin potong rumput di rumput yang basah. Cukup berjalan, tidak perlu berlari.** Hal ini mengurangi risiko tergelincir atau jatuh yang dapat mengakibatkan cedera.
- ▶ **Jangan operasikan mesin potong rumput di area dengan kemiringan curam.** Hal ini mengurangi risiko kehilangan kendali, tergelincir, atau jatuh yang dapat menyebabkan cedera.
- ▶ **Saat bekerja di kemiringan, selalu perhatikan pijakan kaki yang aman, bekerjalah selalu dengan posisi menghadap kemiringan, jangan pernah mondar-mandir naik-turun, dan berhati-hatilah saat berbalik arah.** Hal ini mengurangi risiko kehilangan kendali, tergelincir, atau jatuh yang dapat menyebabkan cedera.
- ▶ **Berhati-hatilah saat menggerakkan alat potong rumput sambil bergerak mundur atau menariknya ke arah diri sendiri. Selalu perhatikan lingkungan sekitar.** Hal ini mengurangi risiko tersandung selama pengoperasian.
- ▶ **Jangan sentuh pisau dan komponen bergerak yang berbahaya lainnya saat masih bergerak.** Hal ini mengurangi risiko cedera akibat komponen yang bergerak.

- ▶ **Pastikan semua switch dalam posisi OFF dan baterai dilepas saat melepaskan material yang tersangkut atau membersihkan mesin potong rumput.**

Pengoperasian mesin potong rumput yang tidak terduga dapat menyebabkan cedera serius.

Petunjuk keselamatan tambahan

- ▶ **Perangkat ini mengandung magnet - Jangan dekatkan magnet ke implan dan perangkat medis lainnya, seperti alat pacu jantung atau pompa insulin, pembawa data magnetik, dan perangkat yang peka terhadap magnet.** Magnet menghasilkan medan yang dapat mengganggu fungsi perangkat medis atau menyebabkan kehilangan data yang tidak dapat dipulihkan.
- ▶ Saat mengatur alat, pastikan jari tidak terjepit di antara mata pisau yang bergerak dan komponen mesin yang dikencangkan.
- ▶ Pastikan tidak ada kerusakan pada produk jika membentur benda keras atau jika terjadi getaran berlebihan.
- ▶ Biarkan perkakas mendingin sebelum disimpan.
- ▶ Kosongkan wadah penampung rumput sebelum disimpan.

Pengoperasian

- ▶ Tunggu hingga mata pisau berhenti jika perkakas taman perlu dimiringkan untuk pengangkutan saat melintasi area yang tidak ditanami rumput, dan saat mengangkat alat ke dan dari area yang akan dipangkas.
- ▶ Jangan miringkan perkakas taman saat memulai atau menghidupkan motornya.
- ▶ Hidupkan perkakas taman sesuai penjelasan pada petunjuk pengoperasian, dan pastikan kaki berada cukup jauh dari komponen yang berputar.
- ▶ Jangan letakkan tangan dan kaki di dekat atau di bawah komponen yang berputar.
- ▶ Jaga jarak dari area pembuangan saat menggunakan perkakas taman.
- ▶ Jangan pernah mengangkat atau membawa perkakas taman saat motornya berjalan.
- ▶ Saat melipat gagang ke posisi penyimpanan, periksa posisi kabel agar tidak rusak atau terjepit.
- ▶ Mesin potong rumput tidak akan mulai beroperasi jika gagang dilipat ke posisi penyimpanan.
- ▶ Saat menyimpan mesin potong rumput dalam posisi horizontal, pastikan baterai dilepas dan pemutus arus dimatikan.
- ▶ Saat menyimpan mesin potong rumput dalam posisi horizontal, pastikan mata pisau dalam posisi berhenti, baterai dilepas, dan pemutus arus dimatikan.
- ▶ Angkat perkakas taman hanya pada gagang pengangkutnya. Pegang gagang pengangkutnya dengan hati-hati.

Melepas pemutus arus

- Saat mengangkut mesin potong rumput.
- Setiap kali meninggalkan alat.
- Sebelum membersihkan objek yang tersangkut.
- Saat memeriksa, membersihkan, atau mengoperasikan alat.
- Setelah terbentur dengan benda asing, segera lakukan pemeriksaan alat dari kerusakan dan ganti mata pisaunya jika perlu.
- Jika alat mulai bergetar tidak normal (segera periksa).

Petunjuk-petunjuk untuk penanganan baterai isi ulang yang optimal

- **Jangan membuka baterai.** Ada bahaya terjadinya korsleting.



Lindungi baterai isi ulang terhadap panas, misalnya juga terhadap penyinaran matahari untuk waktu yang lama, api, air dan kelembasan. Terdapat bahaya ledakan.



- **Jika alat tidak digunakan, jauhkan baterai yang tidak digunakan dari klip kertas, koin, kunci, paku, sekrup, atau benda logam kecil lainnya yang dapat menyebabkan bridging saat bersentuhan.** Hubungan arus pendek antarkontak baterai dapat menyebabkan kebakaran atau memercikkan api.
- **Jika baterai isi ulang rusak atau digunakan secara salah, baterai isi ulang dapat mengeluarkan uap.** Biarkanlah udara segar mengalir masuk dan jika Anda merasa tidak enak badan, pergilah ke dokter. Uap tersebut dapat mengganggu saluran pernafasan.
- **Hanya gunakan baterai pada produk yang dibuat oleh produsen.** Hanya dengan cara ini, baterai dapat terlindung dari kelebihan muatan.
- **Baterai dapat rusak akibat benda-benda lancip, seperti jarum, obeng, atau tekanan keras dari luar.** Hal ini dapat menyebabkan terjading hubungan singkat internal dan baterai dapat terbakar, berasap, meledak, atau mengalami panas berlebih.
- **Jagalah supaya tidak terjadi korsleting pada aki.** Ada bahaya terjadinya ledakan.
- Bersihkanlah lubang-lubang ventilasi dari baterai dengan kuas yang lunak, bersih dan kering secara berkala.
- **Isi daya baterai hanya dengan pengisi daya yang disetujui oleh Bosch.**

Simbol-simbol

Simbol-simbol berikut penting untuk membaca dan mengerti petunjuk-petunjuk untuk penggunaan. Pelajarilah simbol-

simbol dan artinya. Pengertian yang betul dari simbol-simbol ini membantu Anda untuk menggunakan perkakas pakai udara bertekanan dengan lebih baik dan selamat.

Simbol	Arti
	Arah gerakan
	Arah reaksi
	Kenakan sarung tangan pelindung
	Kenakan sepatu pelindung yang aman.
	Berat
	Menghidupkan
	Mematikan
	Tindakan yang diperbolehkan
	Tindakan yang dilarang
	Suara bising yang terdengar
	Aksesori/suku cadang

Deskripsi produk dan spesifikasi



Baca semua informasi dan petunjuk keselamatan. Kelalaian dalam mematuhi informasi dan petunjuk keselamatan dapat menyebabkan sengatan listrik, kebakaran, dan/atau cedera serius.

Perhatikan gambar di bagian belakang petunjuk pengoperasian.

Tujuan penggunaan

Alat ini dirancang untuk memotong rumput.

Alat ini tidak dirancang untuk memangkas, mencacah, memotong tanaman pagar, dan sebagainya.

Alat ini dirancang untuk memotong rumput pada permukaan tanah.

Data Teknis

Pemangkas rumput		GRA 18V2-46
Nomor barang		3 600 HC8 0..
Tegangan nominal ^(A)	V	36 V (2 x 18 V)
Lebar pemotongan	cm	46

Pemangkas rumput		GRA 18V2-46
Tinggi pemotongan	mm	30–70
Volume, kantong penampung rumput	l	60
Berat berdasarkan IEC 62841-1/ IEC 62841-4-3 ^{A)}	kg	27,7
Nomor seri		Lihat label pada perkakas taman
Rekomendasi suhu sekitar saat pengisian daya	°C	0 ... +35
Suhu sekitar yang diizinkan saat pengoperasian ^{B)} dan saat penyimpanan	°C	-20 ... +50
Baterai yang kompatibel		GBA18V... GBA 18V... ProCORE18V... EXPERT18V... EXBA18V... CORE18V...
Rekomendasi baterai untuk kapasitas penuh		GBA 18V... ≥ 4.0 Ah ProCORE18V... ≥ 4.0 Ah EXPERT18V...
Rekomendasi pengisi daya		GAL18... GAL 18... GAL 36... GAL12V/18... GAL 12V/18... GAX 18... EXAL18...

A) Bergantung pada baterai yang digunakan

B) daya terbatas pada suhu < 0 °C

Baterai

Bosch menjual perkakas listrik berdaya baterai bahkan tanpa baterai yang disertakan. Keterangan apakah lingkup pengiriman perkakas listrik termasuk dengan baterai dapat ditemukan di kemasan.

Mengisi daya baterai

- **Hanya gunakan pengisi daya yang tercantum pada data teknis.** Hanya pengisi daya ini yang sesuai dengan baterai li-ion yang digunakan pada perkakas listrik Anda.

Catatan: Baterai Li-ion dikirimkan dalam keadaan terisi daya setengah karena peraturan pengiriman internasional. Untuk memastikan kapasitas baterai penuh, isi daya baterai hingga penuh sebelum digunakan untuk kali pertama.

Memasang baterai

- **Alat ini hanya dirancang untuk pengoperasian dengan 2 baterai dan tidak akan berfungsi jika salah satu daya baterai habis total. Selalu gunakan baterai dengan level daya yang sama dan jangan pernah menggabungkan baterai yang penuh terisi daya dengan baterai setengah penuh terisi daya karena waktu pengoperasian akan selalu ditentukan oleh baterai yang paling sedikit dayanya.**

Catatan: Jika baterai yang tidak sesuai digunakan, hal ini dapat merusak alat atau menyebabkan gangguan fungsi.

Pasang baterai yang sudah terisi daya. Pastikan baterai terpasang dengan benar.

Masukkan baterai yang sudah terisi daya ke dalam slot baterai hingga terkunci.

Melepaskan baterai

Baterai memiliki dua tingkat penguncian untuk mencegah baterai terjatuh jika tombol pelepas kunci baterai tidak sengaja ditekan. Selama baterai terpasang di dalam perkakas listrik, baterai tetap berada di posisinya dengan bantuan pegas.

Untuk melepas baterai, tekan tombol pelepas kunci baterai dan tarik baterai keluar. **Lakukan dengan perlahan dan tidak secara paksa.**

Indikator level pengisian daya baterai

Catatan: Tidak semua jenis baterai memiliki indikator level pengisian daya.

LED berwarna hijau dari indikator level pengisian daya baterai menampilkan level pengisian daya baterai. Atas dasar keselamatan, permintaan level pengisian daya baterai hanya dapat dilakukan saat perkakas listrik dalam keadaan berhenti.

Tekan tombol indikator level pengisian daya baterai  atau  untuk menampilkan level pengisian baterai. Hal ini juga dapat dilakukan saat baterai dilepas.

Apabila LED tidak menyala setelah menekan tombol indikator level pengisian daya, terdapat kerusakan pada baterai dan baterai harus diganti.

Tipe baterai GBA 18V... | GBA18V...



LED	Kapasitas
Lampu permanen hijau 3×	60–100%
Lampu permanen hijau 2×	30–60%
Lampu permanen hijau 1×	5–30%
Lampu berkedip hijau 1×	0–5%

Tipe baterai ProCORE18V... | EXPERT18V... | EXBA18V... | CORE18V...



LED	Kapasitas
Lampu permanen hijau 5×	80–100%
Lampu permanen hijau 4×	60–80%
Lampu permanen hijau 3×	40–60%
Lampu permanen hijau 2×	20–40%
Lampu permanen hijau 1×	5–20%
Lampu berkedip hijau 1×	0–5%

Deteksi risiko kerusakan baterai

EXPERT18V... | EXBA18V...

Selain menampilkan level pengisian daya baterai, LED pada indikator level pengisian daya baterai dapat menunjukkan risiko kerusakan baterai.

Untuk mengaktifkan fungsi ini, tekan dan tahan tombol indikator level pengisian daya selama 3 detik. Analisis baterai ditandai dengan lampu yang menyala pada indikator level pengisian daya baterai. Hasil analisis ditampilkan pada indikator level pengisian daya baterai.

1 LED: Baterai memiliki risiko kerusakan yang tinggi. Performa dan waktu pengoperasian mungkin sudah berkurang. Direkomendasikan untuk mengganti baterai.

5 LED: Baterai dalam kondisi baik dengan risiko kerusakan yang rendah.

Harap perhatikan: Penilaian risiko kerusakan baterai bekerja dalam dua tahap dan memberikan penilaian kondisi yang disederhanakan. Baterai dinilai apakah memiliki kondisi baik atau mengalami peningkatan risiko kerusakan. Tidak ada persentase kondisi baterai yang ditampilkan.

Pemasangan dan pengoperasian

Tujuan tindakan	Gambar	Halaman
Cakupan pengiriman ^{A)}	A	3

Tujuan tindakan	Gambar	Halaman
Membuka dan memasang bar pegangan	B–D	4 – 5
Mengatur ketinggian kerja		
Memasukkan/melepas wadah penampung rumput	E	5
Mengatur tinggi pemotongan	F	6
Memasang kedua baterai	G	6
Pengoperasian	H	7
- Memasukkan pemutus sirkuit		
- Mengaktifkan		
- Menonaktifkan		
- Melepaskan pemutus sirkuit		
Melepaskan kedua baterai	I	8
Petunjuk kerja “pemotongan rumput”	J	8
Petunjuk kerja “pemulsaan”	K	9
Perawatan pisau/penggantian pisau	L	9
Penyimpanan	M	10
Memilih aksesoris	N	11

A) Aksesoris ini tidak termasuk dalam lingkup pengiriman standar.

Pengoperasian awal

Demi keselamatan Anda

- ▶ **Perhatian!** Matikan alat, lepaskan pemutus arus, dan lepaskan baterai sebelum melakukan pekerjaan perawatan atau pembersihan apa pun. Hal yang sama berlaku jika kabel sakelar rusak, terpotong atau terbelit.
- ▶ Setelah perkakas taman dimatikan, mata pisau masih akan berputar beberapa detik.
- ▶ **Hati-hati:** Jangan sentuh pisau pemotong yang berputar.
- ▶ **Gunakan hanya pengisi daya yang tercantum dalam data teknis.** Hanya pengisi daya ini yang sesuai dengan baterai Li-ion yang digunakan pada perkakas Anda.

Fungsi pemulsaan

Lepaskan kantong penampung rumput dan geser adaptor mulsa ke dalam lubang pembuangan. Tutup penutup lubang pembuangan.

Lepaskan adaptor mulsa saat menggunakan kembali wadah penampung rumput.

Petunjuk pengoperasian

Daya pemotongan (waktu pengoperasian baterai)

Daya pemotongan (waktu pengoperasian baterai) bergantung pada karakteristik halaman, seperti kerapatan

rumput, kelembapan, panjang rumput, dan tinggi pemotongan.
Sering menghidupkan dan mematikan alat selama memotong rumput juga mengurangi daya pemotongan (waktu pengoperasian baterai).

Untuk mengoptimalkan daya pemotongan (waktu pengoperasian baterai), disarankan untuk memotong rumput lebih sering, menambah tinggi pemotongan, dan berjalan dengan kecepatan yang wajar.

Pemecahan masalah



Gejala	Kemungkinan penyebab	Solusi
Motor tidak hidup	Kabel internal alat rusak	Hubungi Layanan Pelanggan Bosch
	Satu atau dua baterai habis	Isi daya baterai
	Satu atau dua baterai terlalu dingin/terlalu panas	Biarkan baterai menjadi hangat/dingin
	Rumput terlalu tinggi	Tinggi rumput yang diizinkan adalah maksimal 20 cm dengan pengaturan tinggi pemotongan terbesar
	Pelindung motor telah diaktifkan	Biarkan mesin menjadi dingin dan atur ketinggian pemotongan yang lebih tinggi
	Pemutus sirkuit tidak dimasukkan dengan benar/ sepenuhnya	Masukkan dengan benar
	Pemutus sirkuit tidak sepenuhnya diputar ke posisi ON	Putar sepenuhnya ke posisi ON
	Satu atau dua baterai tidak terpasang dengan benar	Masukkan baterai sehingga kontak terjamin
	Pegangan berada pada posisi penyimpanan	Lipat pegangan ke posisi pengoperasian
Alat beroperasi dengan beberapa kali jeda	Kabel internal alat rusak	Hubungi Layanan Pelanggan Bosch
	Pelindung motor telah diaktifkan	Biarkan mesin menjadi dingin dan atur ketinggian pemotongan yang lebih tinggi
Alat menghasilkan potongan tidak beraturan dan/atau motor sulit dioperasikan	Tinggi pemotongan terlalu rendah	Atur tinggi pemotongan lebih tinggi
	Mata pisau tumpul	Mengganti mata pisau (lihat gambar L)
	Kemungkinan terdapat objek yang tersangkut	Matikan alat dan lepaskan pemutus arus Periksa bagian bawah alat dan bersihkan jika perlu (selalu kenakan sarung tangan untuk berkebun)
	Mata pisau terpasang dengan tidak benar	Pasang mata pisau dengan benar
Setelah menghidupkan alat, mata pisau tidak berputar	Mata pisau terhalang oleh rumput	Matikan alat dan lepaskan pemutus arus (lihat gambar L) Singkirkan benda yang tersangkut (selalu kenakan sarung tangan untuk berkebun)
	Mur/sekrup mata pisau longgar	Kencangkan mur/sekrup mata pisau (25–30 Nm)
	Mur/sekrup mata pisau longgar	Kencangkan mur/sekrup mata pisau (25–30 Nm)
Getaran/kebisingan tinggi	Mata pisau rusak	Mengganti mata pisau (lihat gambar L)
	Kemungkinan terdapat objek yang tersangkut	Bersihkan wadah penampung rumput berbahan kain untuk membersihkan pori-porinya dan meningkatkan aliran udara.
Wadah penampung rumput belum terisi penuh		

Rawatan dan servis

Perawatan, Pembersihan dan Penyimpanan

- ▶ **Lepaskan baterai dari alat sebelum melakukan pekerjaan apa pun (misalnya perawatan, penggantian perkakas, dll.) serta selama pengangkutan dan penyimpanan.** Ada risiko cedera jika switch on/off digerakkan tanpa sengaja.
- ▶ **Jaga kebersihan alat agar dapat beroperasi dengan baik dan aman.**

Jaga kebersihan produk dan lubang ventilasi untuk memastikan pengoperasian yang benar dan aman.

Jangan pernah menyemprot produk dengan air.

Jangan pernah merendam produk di dalam air.

Simpan produk di tempat yang aman dan kering, jauhkan dari jangkauan anak-anak.

Jangan letakkan benda lain di atas produk ini.

Pastikan semua mur, baut, dan sekrup kencang untuk memastikan pengoperasian produk yang aman.

Periksa produk dan ganti bagian yang aus atau rusak demi keamanan.

Pastikan semua komponen yang diganti berasal dari Bosch. Jangan modifikasi alat.

Jangan modifikasi alat. Modifikasi yang tidak sah dapat membahayakan keamanan produk dan meningkatkan risiko cedera.

Layanan baterai isi ulang

Untuk memastikan penggunaan baterai yang optimal, harap perhatikan petunjuk dan prosedur berikut:

- Lindungi baterai dari kelembapan dan air.
- Simpan perkakas listrik dan baterai hanya dalam kisaran suhu -20 °C hingga 50 °C. Misalnya, jangan tinggalkan baterai di dalam mobil di musim panas.
- Simpan baterai secara terpisah dan jangan di dalam alat.
- Jangan tinggalkan baterai di dalam alat di bawah sinar matahari langsung.
- Suhu optimal untuk menyimpan baterai adalah 5 °C.
- Sesekali bersihkan slot ventilasi baterai dengan sikat yang lembut, bersih, dan kering.

Waktu pengoperasian yang jauh lebih singkat setelah pengisian daya menunjukkan baterai telah habis dan perlu diganti.

Layanan pelanggan dan konsultasi penggunaan

Indonesia

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Tautan ke alamat web layanan dan informasi ketentuan garansi kami dapat ditemukan di halaman terakhir.

Jika Anda hendak menanyakan sesuatu atau memesan suku cadang, selalu sebutkan nomor model yang terdiri dari 10 angka dan tercantum pada label tipe produk.

Cara membuang

Perkakas listrik, baterai, aksesoris dan kemasan harus didaur ulang dengan cara yang ramah lingkungan.



Jangan membuang perkakas listrik, aki/baterai ke dalam sampah rumah tangga!

Tiếng Việt

Hướng dẫn an toàn

Giải thích các biểu tượng máy xén cỏ



Cảnh báo tổng quát các nguy hiểm vì sự an toàn.



Đọc hướng dẫn vận hành.



Hãy đảm bảo những người đứng gần không bị thương do mảnh vụn văng ra.



CẢNH BÁO: Giữ tránh xa những người xung quanh.



CẢNH BÁO: Tránh để tay và chân tiếp xúc với dao.



CẢNH BÁO: Tha 'o pin ra trước khi bảo trì.



CẢNH BÁO: Tháo thiết bị khóa trước khi tiến hành bảo trì.



Không áp dụng.



Hãy chờ cho đến khi tất cả các bộ phận của dụng cụ làm vườn đã hoàn toàn dừng lại trước khi chạm vào chúng. Các dao vẫn tiếp tục quay sau khi tắt thiết bị.



Không sử dụng khi trời mưa.



Không áp dụng.



Không sử dụng máy rửa cao áp hoặc ống mềm tưới vườn để rửa thiết bị làm vườn.



Kiểm tra cẩn thận khu vực mà thiết bị làm vườn được sử dụng để tìm động vật hoang dã và vật nuôi. Động vật hoang dã và động vật nuôi có thể bị thương trong khi vận hành máy. Kiểm tra kỹ lưỡng khu vực sử dụng máy và loại bỏ tất cả đá, que, dây, xương và vật thể lạ. Khi sử dụng máy, hãy đảm bảo không có động vật hoang dã, vật nuôi hoặc những gốc cây nhỏ ẩn nấp trong cỏ dại.

Hướng dẫn an toàn chung cho dụng cụ điện

⚠ CẢNH BÁO

Hãy đọc toàn bộ các cảnh báo an toàn, hướng dẫn,

hình ảnh và thông số kỹ thuật được cung cấp cho dụng cụ điện cầm tay này. Không tuân thủ mọi hướng dẫn được liệt kê dưới đây có thể bị điện giật, gây cháy và/hoặc bị thương tật nghiêm trọng.

Hãy giữ tất cả tài liệu về cảnh báo và hướng dẫn để tham khảo về sau.

Thuật ngữ "dụng cụ điện cầm tay" trong phần cảnh báo là để cập đến sự sử dụng dụng cụ điện cầm tay của bạn, loại sử dụng điện nguồn (có dây cắm điện) hay vận hành bằng pin (không dây cắm điện).

Khu vực làm việc an toàn

- ▶ **Giữ nơi làm việc sạch và đủ ánh sáng.** Nơi làm việc bừa bộn và tối tăm dễ gây ra tai nạn.
- ▶ **Không vận hành dụng cụ điện cầm tay trong môi trường dễ gây nổ, chẳng hạn như nơi có chất lỏng dễ cháy, khí đốt hay rác.** Dụng cụ điện cầm tay tạo ra các tia lửa nên có thể làm rác bén cháy hay bốc khói.
- ▶ **Không để trẻ em hay người đến xem đứng gần khi vận hành dụng cụ điện cầm tay.** Sự phân tâm có thể gây ra sự mất điều khiển.

An toàn về điện

- ▶ **Không được để dụng cụ điện cầm tay ngoài mưa hay ở tình trạng ẩm ướt.** Nước vào máy sẽ làm tăng nguy cơ bị điện giật.

An toàn cá nhân

- ▶ **Hãy tỉnh táo, biết rõ mình đang làm gì và hãy sử dụng ý thức khi vận hành dụng cụ điện cầm tay.** Không sử dụng dụng cụ điện cầm tay khi đang mệt mỏi hay đang bị tác động do chất gây nghiện, rượu hay dược phẩm gây ra. Một thoáng mất tập trung khi đang vận hành dụng cụ điện cầm tay có thể gây thương tích nghiêm trọng cho bản thân.

- ▶ **Sử dụng trang bị bảo hộ cá nhân.** Luôn luôn đeo kính bảo vệ mắt. Trang bị bảo hộ như khẩu trang, giày chống trượt, nón bảo hộ, hay dụng cụ bảo vệ tai khi được sử dụng đúng nơi đúng chỗ sẽ làm giảm nguy cơ thương tật cho bản thân.

- ▶ **Phòng tránh máy khởi động bất ngờ.** Bảo đảm công tắc máy ở vị trí tắt trước khi cắm vào nguồn điện và/hay lắp pin vào, khi nhắc máy lên hay khi mang xách máy. Ngáng ngón tay vào công tắc máy để xách hay kích hoạt dụng cụ điện cầm tay khi công tắc ở vị trí mở dễ dẫn đến tai nạn.

- ▶ **Lấy mọi chìa hay khóa điều chỉnh ra trước khi mở điện dụng cụ điện cầm tay.** Khóa hay chìa còn gắn dính vào bộ phận quay của dụng cụ điện cầm tay có thể gây thương tích cho bản thân.

- ▶ **Không rướn người.** Luôn luôn giữ tư thế đứng thích hợp và thăng bằng. Điều này tạo cho việc điều khiển dụng cụ điện cầm tay tốt hơn trong mọi tình huống bất ngờ.

- ▶ **Trang phục thích hợp.** Không mặc quần áo rộng thùng thình hay mang trang sức. Giữ tóc và quần áo xa khỏi các bộ phận chuyển động. Quần áo rộng thùng thình, đồ trang sức hay tóc dài có thể bị cuốn vào các bộ phận chuyển động.

- ▶ **Nếu có các thiết bị đi kèm để nối máy hút bụi và các phụ kiện khác, bảo đảm các thiết bị này được nối và sử dụng tốt.** Việc sử dụng các thiết bị gom hút bụi có thể làm giảm các độc hại liên quan đến bụi gây ra.

- ▶ **Không để thói quen do sử dụng thường xuyên dụng cụ khiến bạn trở nên chủ quan và bỏ qua các quy định an toàn dụng cụ.** Một hành vi bất cẩn có thể gây ra thương tích nghiêm trọng chỉ trong tích tắc.

Sử dụng và bảo dưỡng dụng cụ điện cầm tay

- ▶ **Không được ép máy.** Sử dụng dụng cụ điện cầm tay đúng loại theo đúng ứng dụng của bạn. Dụng cụ điện cầm tay đúng chức năng sẽ làm việc tốt và an toàn hơn theo đúng tiến độ mà máy được thiết kế.
- ▶ **Không sử dụng dụng cụ điện cầm tay nếu như công tắc không tắt và mở được.** Bất kỳ dụng cụ điện cầm tay nào mà không thể điều khiển được bằng công tắc là nguy hiểm và phải được sửa chữa.
- ▶ **Rút phích cắm ra khỏi nguồn điện và/hay pin ra khỏi dụng cụ điện cầm tay nếu có thể tháo được, trước khi tiến hành bất kỳ điều chỉnh nào, thay phụ kiện, hay cất dụng cụ điện cầm tay.** Các biện pháp ngăn ngừa như vậy làm giảm nguy cơ dụng cụ điện cầm tay khởi động bất ngờ.

- ▶ **Cất giữ dụng cụ điện cầm tay không dùng tới** nơi trẻ em không lấy được và không cho người chưa từng biết dụng cụ điện cầm tay hay các hướng dẫn này sử dụng dụng cụ điện cầm tay. Dụng cụ điện cầm tay nguy hiểm khi ở trong tay người chưa được chỉ cách sử dụng.
- ▶ **Bảo quản dụng cụ điện cầm tay và các phụ kiện.** Kiểm tra xem các bộ phận chuyển động có bị sai lệch hay kẹt, các bộ phận bị rạn nứt và các tình trạng khác có thể ảnh hưởng đến sự vận hành của máy. Nếu bị hư hỏng, phải sửa chữa máy trước khi sử dụng. Nhiều tai nạn xảy ra do bảo quản dụng cụ điện cầm tay tồi.
- ▶ **Giữ các dụng cụ cất bén và sạch.** Bảo quản đúng cách các dụng cụ cất có cạnh cắt bén làm giảm khả năng bị kẹt và dễ điều khiển hơn.
- ▶ **Sử dụng dụng cụ điện cầm tay, phụ kiện, đầu cài v. v., đúng theo các chỉ dẫn này, hãy lưu ý đến điều kiện làm việc và công việc phải thực hiện.** Sự sử dụng dụng cụ điện cầm tay khác với mục đích thiết kế có thể tạo nên tình huống nguy hiểm.
- ▶ **Giữ tay cầm và bề mặt nắm luôn khô ráo, sạch sẽ và không dính dầu mỡ.** Tay cầm và bề mặt nắm trơn trượt không đem lại thao tác an toàn và kiểm soát dụng cụ trong các tình huống bất ngờ.

Sử dụng và bảo quản dụng cụ dùng pin

- ▶ **Chỉ được sạc pin lại với bộ nạp điện do nhà sản xuất chỉ định.** Bộ nạp điện thích hợp cho một loại pin có thể gây nguy cơ cháy khi sử dụng cho một loại pin khác.
- ▶ **Chỉ sử dụng dụng cụ điện cầm tay với loại pin được thiết kế đặc biệt dành riêng cho máy.** Sử dụng bất cứ loại pin khác có thể dẫn đến thương tật hay cháy.
- ▶ **Khi không sử dụng pin, để cách xa các vật bằng kim loại như kẹp giấy, tiền xu, chìa khoá, đinh, ốc vít hay các đồ vật kim loại nhỏ khác, thứ có thể tạo sự nối tiếp từ một đầu cực với một đầu cực khác.** Sự chập mạch của các đầu cực với nhau có thể gây bóng hay cháy.
- ▶ **Bảo quản ở tình trạng tồi, dung dịch từ pin có thể tứa ra; tránh tiếp xúc.** Nếu vô tình chạm phải, hãy xối nước để rửa. Nếu dung dịch vào mắt, cần thêm sự hỗ trợ của y tế. Dung dịch tiết ra từ pin có thể gây ngứa hay bỏng.
- ▶ **Không được sử dụng bộ pin hoặc dụng cụ đã bị hư hại hoặc bị thay đổi.** Pin hỏng hoặc bị thay đổi có thể gây ra những tác động không lường trước được như cháy nổ hoặc nguy cơ thương tích.
- ▶ **Không đặt bộ pin hoặc dụng cụ ở gần lửa hoặc nơi quá nhiệt.** Tiếp xúc với lửa hoặc nhiệt độ cao trên 130 °C có thể gây nổ.

- ▶ **Tuân thủ tất cả các hướng dẫn nạp và không nạp bộ pin hay dụng cụ ở bên ngoài phạm vi nhiệt độ đã được quy định trong các hướng dẫn.** Nạp không đúng cách hoặc ở nhiệt độ ngoài phạm vi nạp đã quy định có thể làm hư hại pin và gia tăng nguy cơ cháy.

Bảo dưỡng

- ▶ **Đưa dụng cụ điện cầm tay của bạn đến thợ chuyên môn để bảo dưỡng, chỉ sử dụng phụ tùng đúng chủng loại để thay.** Điều này sẽ đảm bảo sự an toàn của máy được giữ nguyên.
- ▶ **Không bao giờ sửa chữa các bộ pin đã hư hại.** Chỉ cho phép nhà sản xuất hoặc các nhà cung cấp dịch vụ có ủy quyền thực hiện dịch vụ sửa chữa cho các bộ pin.

Cảnh báo an toàn dành cho máy xén cỏ

- ▶ **Không sử dụng máy xén cỏ trong điều kiện thời tiết xấu, đặc biệt là khi có nguy cơ sét đánh..** Điều này làm giảm nguy cơ bị sét đánh.
- ▶ **Kiểm tra kỹ để phát hiện động vật hoang tại khu vực nơi máy xén cỏ sẽ được sử dụng..** Động vật hoang có thể bị thương trong quá trình sử dụng máy xén cỏ.
- ▶ **Kiểm tra kỹ lưỡng khu vực mà máy xén cỏ được sử dụng và loại bỏ tất cả đá, que, dây, xương và các vật lạ khác.** Các vật thể bị văng ra có thể gây thương tích cho người.
- ▶ **Trước khi sử dụng máy xén cỏ, hãy luôn kiểm tra bằng mắt thường để đảm bảo rằng lưỡi dao và bộ phận lưỡi dao không bị mòn hoặc hư hỏng.** Các bộ phận bị mòn hoặc hư hỏng làm tăng nguy cơ thương tích.
- ▶ **Kiểm tra thường xuyên thùng chứa cỏ để phát hiện độ mòn hoặc hư hỏng.** Một thùng chứa cỏ bị mòn hoặc hư hỏng có thể làm tăng nguy cơ thương tích.
- ▶ **Hãy cho lắp đặt tất cả các thiết bị bảo vệ.** Các thiết bị bảo vệ phải hoạt động bình thường và được lắp đặt đúng cách. Một thiết bị bảo vệ bị lỏng lẻo, hư hỏng hoặc không hoạt động đúng cách có thể gây ra thương tích.
- ▶ **Giữ sạch tất cả khe thông gió.** Các khe thông gió bị tắc nghẽn và bụi bẩn có thể dẫn đến quá nhiệt hoặc nguy cơ cháy nổ.
- ▶ **Luôn mang giày chống trượt và bảo vệ khi làm việc với máy xén cỏ.** Không sử dụng máy xén cỏ bằng chân trần hoặc đi dép hở. Điều này giúp giảm nguy cơ thương tích cho chân do tiếp xúc với lưỡi dao đang di chuyển.
- ▶ **Luôn mặc quần dài khi làm việc với máy xén cỏ.** Da không được bảo vệ làm tăng nguy cơ thương tích do các vật thể bị văng ra.
- ▶ **Không vận hành máy xén cỏ trong cỏ ướt.** Hãy đi, không được chạy. Điều này giúp giảm nguy cơ trượt ngã hoặc té ngã, có thể dẫn đến thương tích.

- ▶ **Không vận hành máy xén cỏ trên các sườn dốc.** Điều này giúp giảm nguy cơ mất kiểm soát, trượt ngã hoặc té ngã, có thể dẫn đến thương tích.
- ▶ **Khi làm việc trên sườn dốc, luôn đảm bảo vị trí đứng an toàn, luôn làm việc theo hướng ngang với sườn dốc, không bao giờ làm việc theo hướng lên dốc hoặc xuống dốc, và hết sức cẩn thận khi thay đổi hướng.** Điều này giúp giảm nguy cơ mất kiểm soát, trượt ngã hoặc té ngã, có thể dẫn đến thương tích.
- ▶ **Hãy hết sức cẩn thận khi di chuyển máy xén cỏ lùi lại hoặc kéo về phía mình. Luôn chú ý đến môi trường xung quanh của bạn.** Điều này giúp giảm nguy cơ vấp ngã trong quá trình vận hành.
- ▶ **Không chạm vào lưỡi dao và các bộ phận chuyển động nguy hiểm khác khi chúng vẫn đang hoạt động.** Điều này giúp giảm nguy cơ thương tích do các bộ phận chuyển động.
- ▶ **Đảm bảo rằng tất cả công tắc đều ở chế độ TẮT và pin được tháo ra khi tháo vật liệu bị kẹt hoặc vệ sinh máy xén cỏ.** Máy xén cỏ hoạt động không mong muốn có thể gây ra thương tích nghiêm trọng.

Các cảnh báo phụ

- ▶ **Thiết bị này gồm - Không để nam châm ở gần mô cấy và các thiết bị y tế khác, ví dụ như máy trợ tim hoặc bơm insulin, thiết bị mang dữ liệu từ tính và thiết bị nhạy từ tính.** Từ tính có thể tạo ra một trường ảnh hưởng xấu đến chức năng của các thiết bị y tế hoặc dẫn đến mất dữ liệu vĩnh viễn.
- ▶ Khi điều chỉnh thiết bị, hãy cẩn thận để không kẹp ngón tay giữa các lưỡi dao di chuyển và các bộ phận cố định của máy.
- ▶ Kiểm tra xem sản phẩm có bị hư hỏng không nếu va phải vật cứng hoặc rung động quá mức.
- ▶ Luôn để sản phẩm hạ nhiệt trước khi cất giữ.
- ▶ Hãy đổ sạch giỏ chứa cỏ trước khi cất giữ.

Điều khiển

- ▶ Lưỡi dao phải được cố định khi bạn cần nghiêng thiết bị làm vườn để vận chuyển, khi bạn không đi qua các khu vực có cỏ và khi bạn vận chuyển thiết bị làm vườn đến và đi từ khu vực cần cắt cỏ.
- ▶ Không nghiêng thiết bị làm vườn khi khởi động hoặc khởi động động cơ.
- ▶ Bật thiết bị làm vườn theo hướng dẫn trong hướng dẫn vận hành và đảm bảo rằng chân của bạn cách xa các bộ phận xoay.
- ▶ Không đưa tay và chân gần hoặc dưới các bộ phận xoay.
- ▶ Khi sử dụng thiết bị làm vườn, hãy giữ khoảng cách an toàn với vùng thoát ra.

- ▶ Không bao giờ nâng hoặc mang thiết bị làm vườn khi động cơ đang chạy.
- ▶ Khi gấp tay cầm vào vị trí lưu trữ, hãy kiểm tra vị trí của cáp để tránh làm hỏng hoặc kẹp cáp.
- ▶ Máy xén cỏ sẽ không khởi động khi tay cầm được gấp vào vị trí lưu trữ.
- ▶ Khi lưu trữ máy cắt cỏ ở vị trí ngang, hãy đảm bảo pin đã được tháo ra, công tắc ngắt mạch được tắt.
- ▶ Khi lưu trữ máy xén cỏ ở vị trí thẳng đứng, hãy đảm bảo lưỡi dao đã được gấp lại và pin đã được tháo ra và công tắc ngắt mạch được tắt.
- ▶ Chỉ nâng thiết bị làm vườn bằng quai xách. Hãy cẩn thận khi sử dụng quai xách.

Nhà công tắc ngắt mạch

- Trong khi vận chuyển máy xén cỏ.
- Luôn luôn, mỗi khi rời khỏi thiết bị làm vườn.
- Trước khi loại bỏ các tắc nghẽn.
- Nếu bạn kiểm tra thiết bị làm vườn, làm sạch hoặc làm việc tại đó.
- Sau khi va chạm với vật thể lạ, bạn hãy kiểm tra thiết bị làm vườn ngay lập tức xem có hư hại gì không và thay lưỡi dao nếu cần.
- Nếu thiết bị làm vườn bắt đầu rung bất thường (hãy kiểm tra ngay lập tức).

Các khuyến nghị về cách xử lý tốt nhất cho viên pin

- ▶ **Không được tháo pin ra.** Nguy cơ bị chập mạch.



Bảo vệ pin không để bị làm nóng, (ví dụ, chống để lâu dài dưới ánh nắng gay gắt), lửa, nước, và sự ẩm ướt. Sự nguy hiểm của nổ.

- ▶ **Trong trường hợp pin bị hỏng hay sử dụng sai cách, hơi nước có thể bốc ra.** Hãy thông khí vùng và trong trường hợp bị đau phải nhờ y tế chữa trị. Hơi nước có thể gây ngứa hệ hô hấp.
- ▶ **Chỉ sử dụng pin trong các sản phẩm của nhà sản xuất.** Chỉ bằng cách này, pin sẽ được bảo vệ tránh nguy cơ quá tải.
- ▶ **Pin có thể bị hư hại bởi các vật dụng nhọn như đinh hay tuốc-nơ-vít hoặc bởi các tác động lực từ bên ngoài.** Nó có thể dẫn tới đoản mạch nội bộ và làm pin bị cháy, bốc khói, phát nổ hoặc quá nóng.
- ▶ **Không làm chập mạch pin.** Có nguy cơ gây nổ.
- ▶ **Thỉnh thoảng làm sạch các khe thông gió của pin bằng cách dùng một cái cọ khô, mềm và sạch.**
- ▶ **Chỉ sạc cho máy bằng bộ sạc pin đi kèm.**

Các biểu tượng

Các biểu tượng sau đây quan trọng để học và hiểu các hướng dẫn sử dụng. Xin vui lòng lưu ý các biểu

tượng và ý nghĩa của chúng. Sự hiểu đúng các biểu tượng sẽ giúp bạn sử dụng sản phẩm một cách tốt và an toàn hơn.

Biểu tượng	Ý nghĩa
	Hướng chuyển động
	Hướng phản ứng
	Hãy mang găng tay bảo vệ
	Hãy đi giày an toàn.
	Trọng lượng
	Bật
	Tắt
	Hành động được phép

Biểu tượng	Ý nghĩa
	Hành động bị cấm
CLICK!	Tiếng ồn
	Phụ kiện/Phụ tùng thay thế

Mô Tả Sản Phẩm và Đặc Tính Kỹ Thuật



Đọc kỹ mọi cảnh báo an toàn và mọi hướng dẫn. Không tuân thủ mọi cảnh báo và hướng dẫn được liệt kê dưới đây có thể bị điện giật, gây cháy và/hoặc bị thương tật nghiêm trọng.

Xin lưu ý các hình minh hoạt trong phần sau của hướng dẫn vận hành.

Sử dụng đúng cách

Thiết bị làm vườn này được thiết kế để xén cỏ. Thiết bị làm vườn này không được thiết kế để cắt hàng rào, tỉa cành, bấm nhỏ, v.v.

Thiết bị làm vườn này được thiết kế để xén cỏ ở độ cao mặt đất.

Thông số kỹ thuật

Máy xén cỏ	GRA 18V2-46	
Mã số máy		3 600 HC8 0..
Điện thế danh định ^{A)}	V	36 V (2 x 18 V)
Chiều rộng cắt	cm	46
Chiều cao cắt	mm	30–70
Dung tích, túi chứa cỏ	l	60
Trọng lượng theo IEC 62841-1/ IEC 62841-4-3 ^{A)}	kg	27,7
Số sê-ri	Xem Nhân ghi loại trên thiết bị làm vườn	
Nhiệt độ môi trường được khuyến nghị khi sạc	°C	0 ... +35
Nhiệt độ môi trường cho phép trong quá trình vận hành ^{B)} và trong quá trình lưu trữ	°C	-20 ... +50
Pin tương thích	GBA18V... GBA 18V... ProCORE18V... EXPERT18V... EXBA18V... CORE18V...	
Pin được khuyến nghị dùng cho công suất tối đa	GBA 18V... ≥ 4.0 Ah ProCORE18V... ≥ 4.0 Ah EXPERT18V...	
Thiết bị nạp được giới thiệu	GAL18... GAL 18... GAL 36... GAL12V/18... GAL 12V/18...	

Máy xén cỏ

GRA 18V-46

GAX 18...

EXAL18...

A) tùy vào loại pin được sử dụng

B) hiệu suất giới hạn ở nhiệt độ < 0 °C

Pin

Bosch mua dụng cụ điện chạy pin không có pin. Dù pin được bao gồm trong phạm vi giao hàng của dụng cụ điện, bạn có thể tháo bao gì.

Sạc pin

- **Chỉ sử dụng bộ sạc được đề cập trong dữ liệu kỹ thuật.** Chỉ những bộ sạc này phù hợp cho dụng cụ điện cầm tay của bạn có sử dụng pin Li-Ion.

Lưu ý: Pin Li-ion được giao một phần do các quy định vận tải quốc tế. Để bảo đảm đầy đủ điện dung, nạp điện hoàn toàn lại cho pin trước khi sử dụng cho lần đầu tiên.

Lắp pin

- **Thiết bị này chỉ được thiết kế để hoạt động với 2 pin và sẽ không hoạt động nếu một trong hai pin bị xả cạn hoàn toàn. Luôn sử dụng các pin có cùng mức sạc và tuyệt đối không kết hợp pin đã sạc đầy với pin chỉ sạc một phần, vì thời gian sử dụng sẽ luôn phụ thuộc vào pin có mức sạc thấp nhất.**

Lưu ý: Nếu sử dụng pin không phù hợp, có thể dẫn đến lỗi chức năng hoặc hư hỏng thiết bị.

Lắp pin đã sạc vào. Hãy đảm bảo rằng pin đã được lắp đặt hoàn toàn.

Hãy đẩy pin đã sạc vào giá gắn pin cho đến khi nó vào khớp.

Tháo pin ra

Các pin có 2 mức khóa, có nhiệm vụ ngăn ngừa pin bị rơi ra do vô ý bấm phải nút tháo pin. Cứ khi nào các pin còn được lắp trong dụng cụ điện, chúng vẫn được giữ nguyên vị trí nhờ vào một lò xo.

Để tháo pin bạn hãy ấn nút mở khóa pin và kéo pin ra. **Không dùng sức.**

Đèn báo trạng thái nạp pin

Lưu ý: Không phải mọi loại pin đều có một hiển thị mức sạc.

Các đèn LED màu xanh của màn hình hiển thị tình trạng sạc pin chỉ ra tình trạng sạc của pin. Vì lý do an toàn, ta chỉ có thể kiểm tra trạng thái của tình trạng nạp điện khi máy đã ngừng hoạt động hoàn toàn.

Để hiển thị tình trạng nạp, bạn hãy nhấn nút để hiển thị mức sạc  hoặc . Điều này cũng có thể thực hiện khi ắc quy được tháo ra.

Đèn LED không sáng sau khi nhấn nút để hiển thị mức sạc có nghĩa là pin bị hỏng và phải được thay thế.

Loại pin GBA 18V... | GBA18V...



LED	Điện dung
Đèn sáng liên tục 3× màu xanh lá	60–100 %
Đèn sáng liên tục 2× màu xanh lá	30–60 %
Đèn sáng liên tục 1× màu xanh lá	5–30 %
Đèn nhấp nháy 1× màu xanh lá	0–5 %

Loại pin ProCORE18V... | EXPERT18V... | EXBA18V... | CORE18V...



LED	Điện dung
Đèn sáng liên tục 5× màu xanh lá	80–100 %
Đèn sáng liên tục 4× màu xanh lá	60–80 %
Đèn sáng liên tục 3× màu xanh lá	40–60 %
Đèn sáng liên tục 2× màu xanh lá	20–40 %
Đèn sáng liên tục 1× màu xanh lá	5–20 %
Đèn nhấp nháy 1× màu xanh lá	0–5 %

Nhận biết nguy cơ hỏng pin

EXPERT18V... | EXBA18V...

Ngoài trạng thái sạc của pin, đèn LED của hiển thị trạng thái sạc pin có thể cho biết nguy cơ pin bị hỏng.

Để kích hoạt chức năng, nhấn và giữ nút của hiển thị trạng thái sạc  trong 3 giây. Phân tích pin được báo hiệu bằng đèn chạy của hiển thị trạng thái sạc pin. Kết quả được hiển thị trên hiển thị trạng thái sạc pin.



1 LED: Pin có nguy cơ hỏng cao. Công suất và thời gian hoạt động có thể đã bị rút ngắn. Khuyến cáo cần thay pin.



5 LED: Pin ở tình trạng tốt và ít có nguy cơ bị hỏng.

Vui lòng chú ý: Đánh giá rủi ro hỏng pin sẽ hoạt động theo hai giai đoạn và đưa ra đánh giá tình trạng đơn giản. Pin được đánh giá ở tình trạng tốt hoặc có nguy cơ bị hỏng cao hơn. Không có hiển thị phần trăm mức sạc pin.

Lắp và Vận Hành

Mục tiêu xử lý	Hình ảnh	Trang
Phạm vi giao hàng ^{A)}	A	3
Tháo và lắp quai cầm	B-D	4 - 5
Điều chỉnh chiều cao làm việc		
Lắp/tháo túi chứa cỏ	E	5
Điều chỉnh chiều cao cắt	F	6
lắp cả hai pin	G	6
Vận hành	H	7
- Chèn công tắc ngắt mạch		
- Bật		
- Tắt		
- Tháo công tắc ngắt mạch		
tháo cả hai pin ra	I	8
Hướng dẫn làm việc „xén“	J	8
Hướng dẫn làm việc „phủ rơm“	K	9
Bảo trì/thay lưỡi dao	L	9
Lưu kho	M	10
Lựa chọn phụ kiện	N	11

A) Phụ kiện này không thuộc phạm vi giao hàng tiêu chuẩn.

Đưa vào vận hành

Vì sự an toàn của bạn

- **Chú ý!** Tắt thiết bị làm vườn, nhả công tắc ngắt mạch và tháo pin trước khi thực hiện

Tìm kiếm lỗi



Triệu chứng	Một số nguyên nhân	Biện pháp khắc phục
Động cơ không khởi động	Hệ thống cấp bên trong của thiết bị làm vườn bị lỗi	Vui lòng liên hệ với dịch vụ khách hàng Bosch
	Xả cạn một hoặc hai pin	Sạc pin
	Một hoặc hai pin quá lạnh/quá nóng	Để các pin nóng lên/nguội đi
	Cỏ quá dài	Chiều cao cỏ tối đa được phép là 20 cm với cài đặt chiều cao cắt cao nhất
	Bảo vệ động cơ đã phản ứng	Để động cơ nguội và cài đặt độ cao cắt lớn hơn
	Công tắc ngắt mạch không được lắp đúng/hoàn toàn	Lắp đúng cách
	Công tắc ngắt mạch không được xoay hoàn toàn về vị trí ON	Xoay công tắc ngắt mạch hoàn toàn về vị trí BẬT ON
	Một hoặc hai pin không được gắn đúng cách	Gắn pin sao cho đảm bảo tiếp xúc tốt

các công việc bảo trì hoặc làm sạch. Áp dụng tương tự nếu cáp công tắc bị hư hỏng, bị cắt hoặc bị rối.

- Sau khi tắt thiết bị làm vườn, lưỡi dao vẫn tiếp tục quay trong vài giây nữa.
- **Thận trọng:** Không được chạm vào lưỡi cắt xoay.
- **Chỉ sử dụng bộ sạc được đề cập trong dữ liệu kỹ thuật.** Các thiết bị sạc này phù hợp cho pin Li-Ion được dùng ở sản phẩm của bạn.

Chức năng phủ rơm

Tháo túi chứa cỏ và đẩy bộ chuyển đổi chức năng phủ rơm vào lỗ tháo. Đóng nắp lỗ tháo.

Tháo bộ chuyển đổi chức năng phủ rơm, nếu bạn sử dụng lại túi chứa cỏ.

Hướng dẫn làm việc

Công suất cắt (Thời gian chạy pin)

Công suất cắt (thời lượng pin) phụ thuộc vào đặc điểm của bãi cỏ, ví dụ như độ dày cỏ, độ ẩm, chiều dài cỏ và chiều cao cắt.

Việc thường xuyên bật và tắt thiết bị làm vườn trong quá trình xén cỏ cũng làm giảm công suất cắt (Thời gian chạy pin).

Để tối ưu hóa công suất cắt (Thời gian chạy pin), khuyến nghị nên xén cỏ thường xuyên hơn, tăng chiều cao cắt và di chuyển với tốc độ phù hợp.

Triệu chứng	Một số nguyên nhân	Biện pháp khắc phục
	Tay cầm ở trong vị trí lưu trữ	Gập tay cầm vào vị trí vận hành
Thiết bị làm vườn chạy không liên tục	Hệ thống cáp bên trong của thiết bị làm vườn bị lỗi	Vui lòng liên hệ với dịch vụ khách hàng Bosch
	Bảo vệ động cơ đã phản ứng	Để động cơ nguội và cài đặt độ cao cắt lớn hơn
Thiết bị làm vườn để lại vết cắt không đều	Chiều cao cắt quá thấp	Điều chỉnh chiều cao cắt lớn hơn
	Dao cùn	Thay lưỡi dao (xem hình L)
và/hoặc Động cơ hoạt động khó nhọc	Có thể xảy ra tình trạng tắc nghẽn	Tắt thiết bị làm vườn và tháo công tắc ngắt mạch
		Kiểm tra mặt dưới của thiết bị làm vườn và giữ thông thoáng nếu cần thiết (luôn đeo găng tay làm vườn)
	Lưỡi dao được lắp ngược chiều	Lắp dao đúng chiều
Sau khi bật thiết bị làm vườn, lưỡi dao không quay	Lưỡi dao bị cở cản trở	Tắt thiết bị làm vườn và nhả công tắc ngắt mạch (xem Hình L)
		Loại bỏ tắc nghẽn (luôn đeo găng tay làm vườn)
	Đai ốc/vít lưỡi dao bị lỏng	Siết chặt đai ốc/vít lưỡi dao (25–30 Nm)
Rung động/tiếng ồn mạnh	Đai ốc/vít lưỡi dao bị lỏng	Siết chặt đai ốc/vít lưỡi dao (25–30 Nm)
	Lưỡi dao bị hỏng	Thay lưỡi dao (xem hình L)
Túi chứa bụi không được lắp hoàn toàn	Tắc nghẽn có thể xảy ra	Làm sạch túi chứa cỏ bằng vải để làm sạch các lỗ và cải thiện dòng không khí.

Bảo Dưỡng và Bảo Quản

Bảo trì, làm sạch và bảo quản

- Trước khi tiến hành bất cứ công việc gì với máy (vd., bảo dưỡng, thay dụng cụ v.v.) cũng như khi vận chuyển hay lưu kho, tháo pin ra khỏi thiết bị làm vườn. Có nguy cơ gây thương tích khi vô tình làm kích hoạt công tắc bật/tắt.
- Giữ sản phẩm sạch sẽ để hoạt động tốt và an toàn.

Giữ sản phẩm và khe thông gió sạch sẽ để đảm bảo hoạt động đúng cách và an toàn.
Không bao giờ phun nước vào sản phẩm.
Không bao giờ nhúng sản phẩm vào nước.
Bảo quản sản phẩm ở nơi an toàn, khô ráo và tránh xa tầm tay trẻ em.

Không đặt bất kỳ đồ vật nào khác lên sản phẩm.
Đảm bảo tất cả đai ốc, bu lông và vít đều được siết chặt để đảm bảo sản phẩm hoạt động an toàn.
Kiểm tra sản phẩm và thay thế bất kỳ bộ phận nào bị mòn hoặc hư hỏng để đảm bảo an toàn.
Hãy đảm bảo mọi bộ phận cần thay thế đều là của Bosch. Không thay đổi thiết bị.

Không sửa đổi thiết bị. Các sửa đổi không được ủy quyền có thể ảnh hưởng đến độ an toàn của sản phẩm và tăng nguy cơ thương tích.

Bảo dưỡng pin

Sử dụng các quy trình sau để cho phép sử dụng tối ưu pin:

- Bảo vệ pin hợp khối tránh sự ẩm ướt và nước.
- Bảo quản máy và pin chỉ trong phạm vi nhiệt độ giữa -20°C và 50°C . Ví dụ, không để pin hợp khối trong xe ô tô trong mùa hè.
- Không được bỏ qua quá trình pin bằng cách để trong máy mà phải bỏ qua quá trình riêng rẽ.
- Không để pin trong sản phẩm có tiếp xúc trực tiếp với ánh nắng.
- Điều kiện bảo quản lý tưởng pin là 5°C .
- Thỉnh thoảng làm sạch các khe thông gió của pin bằng cách dùng một cái cọ khô, mềm và sạch.

Sự giảm sút đáng kể thời gian hoạt động sau khi nạp điện chỉ rõ rằng pin hợp khối đã hết công dụng và phải được thay.

Dịch vụ hỗ trợ khách hàng và tư vấn sử dụng

Việt Nam

Hotline: 1900 9988 50

Bạn có thể tìm liên kết đến địa chỉ dịch vụ và điều kiện bảo hành của chúng tôi ở trang cuối.

Trong tất cả các phản hồi và đơn đặt phụ tùng, xin vui lòng luôn luôn nhập số hàng hóa 10 chữ số theo nhãn của hàng hóa.

Sự thải bỏ

Dụng cụ điện, pin, phụ kiện và bao bì cần được tái sử dụng theo quy định về môi trường.



Bạn không được ném dụng cụ điện và pin vào thùng rác gia đình!

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