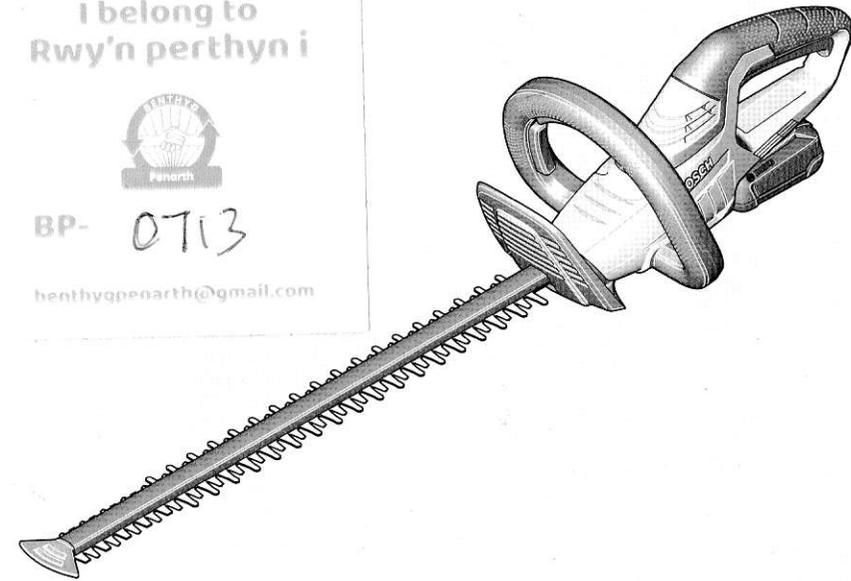


I belong to
Rwy'n perthyn i



BP- 0713

hentygpenarth@gmail.com



**AHS 48-20 LI | AHS 50-20 LI | AHS 53-20 LI |
AHS 55-20 LI | UniversalHedgeCut 18-500 |
UniversalHedgeCut 18-550**



BOSCH

- | | | |
|--|--|---------------------------------------|
| de Originalbetriebsanleitung | pl Instrukcja oryginalna | sr Originalno uputstvo za rad |
| en Original instructions | cs Původní návod k používání | sl Izvirna navodila |
| fr Notice originale | sk Pôvodný návod na použitie | hr Originalne upute za rad |
| es Manual original | hu Eredeti használati utasítás | et Algupärane kasutusjuhend |
| pt Manual original | ru Оригинальное руководство по эксплуатации | lv Instrukcijas oriģinālvalodā |
| it Istruzioni originali | uk Оригінальна інструкція з експлуатації | lt Originali instrukcija |
| nl Oorspronkelijke gebruiksaanwijzing | kk Пайдалану нұсқаулығының түпнұсқасы | ar تعليمات التشغيل الأصلية |
| da Original brugsanvisning | ro Instrucțiuni originale | fa دفترچه راهنمای اصلی |
| sv Bruksanvisning i original | bg Оригинална инструкция | |
| no Original driftsinstruks | mk Оригинално упатство за работа | |
| fi Alkuperäiset ohjeet | | |
| el Πρωτότυπο οδηγιών χρήσης | | |
| tr Orijinal işletme talimatı | | |



Nicht mehr gebrauchsfähige Akkus/Batterien können direkt abgegeben werden bei:

Deutschland
Recyclingzentrum Elektrowerkzeuge
Osteroder Landstraße 3
37589 Kalefeld

Schweiz
Batreco AG
3752 Wimmis BE

Akkus/Batterien:



Li-Ion:
Bitte beachten Sie die Hinweise im Abschnitt „Transport“.

Änderungen vorbehalten.

English

Safety Notes

Explanation of symbols



Read instruction manual.



Do not use the machine in the rain or leave it outdoors when it is raining.



Remove battery before adjusting or cleaning, and before leaving the machine unattended for any period.

General Power Tool Safety Warnings

⚠ WARNING Read all safety warnings and all instructions. Failure to follow the warnings and instructions 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

- ▶ **Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.** Unmodified plugs and matching outlets will reduce risk of electric shock.
- ▶ **Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is earthed or grounded.
- ▶ **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
- ▶ **Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges and moving parts.** Damaged or entangled cords increase the risk of electric shock.
- ▶ **When operating a power tool outdoors, use an extension cord suitable for outdoor use.** Use of a cord suitable for outdoor use reduces the risk of electric shock.
- ▶ **If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.** Use of an RCD reduces 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 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, clothing and gloves 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 connected and properly used.** Use of dust collection can reduce dust-related hazards.

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 the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.** Such preventive safety measures reduce the risk of starting the power tool accidentally.
- ▶ **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. 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.

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.

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.

Hedge trimmer safety warnings

- ▶ **Keep all parts of the body away from the cutter blade. Do not remove cut material or hold material to be cut when blades are moving. Make sure the switch is off when clearing jammed material.** A moment of inattention while operating the hedge trimmer may result in serious personal injury.
- ▶ **Carry the hedge trimmer by the handle with the cutter blade stopped. When transporting or storing the hedge trimmer always fit the cutting device cover.** Proper handling of the hedge trimmer will reduce possible personal injury from the cutter blades.
- ▶ **Hold power tool by insulated gripping surfaces only, because the cutter blade may contact hidden wiring.** Cutter blades contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.
- ▶ **Always ensure all handles and guards are fitted when using the machine.** Never attempt to use an incomplete machine or one fitted with an unauthorized modification.
- ▶ **Always lubricate the cutting blade with protective spray before use.**

Additional safety warnings

- ▶ This tool is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.
- ▶ **When working with the machine, always hold it firmly with both hands and provide for a secure stance.** The power tool is guided more secure with both hands.
- ▶ **Wait until the machine has come to a standstill before placing it down.**
- ▶ Other persons and animals should remain at a distance of 3 metres or more when the machine is being used. The operator is responsible for third persons in the working area.
- ▶ Never grasp the blade of the hedgecutter.
- ▶ Children or persons unfamiliar with these instructions must not operate the hedgecutter. Local regulations may restrict the age of the operator.
- ▶ Never cut a hedge while people, especially children or pets, are nearby.
- ▶ The user is responsible for accidents or hazards occurring to other people or their property.
- ▶ Do not operate the hedgecutter when barefoot or wearing open sandals, always wear substantial footwear and long trousers. The use of sturdy gloves, non-skid footwear and safety glasses is recommended. Do not wear loose clothing or jewellery which can be caught in moving parts.
- ▶ Thoroughly inspect the area where the hedge trimmer is to be used and remove all wires and other foreign objects.

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- ▶ Prior to operation, check cutter blades, blade bolts and cutter assembly for wear or damage. Do not operate with a damaged or excessively worn cutting device.
- ▶ Know how to stop the hedge trimmer quickly in an emergency.
- ▶ Cut a hedge only in daylight or in good artificial light.
- ▶ Never operate the hedgecutter with defective guards or without the guard in place.
- ▶ Always ensure all handles and guards supplied are fitted when using the hedgecutter. Never attempt to use an incomplete hedgecutter or one with an unauthorised modification.
- ▶ Never hold the hedgecutter by the guard.
- ▶ While operating the hedgecutter always be sure of a safe and secure operating position at all times, especially when using steps or a ladder.
- ▶ Always be aware of your surroundings and stay alert for possible hazards that you may not hear whilst operating the hedgecutter.
- ▶ Keep all nuts, bolts and screws tight to ensure that the hedgecutter is always in a safe working condition.
- ▶ The hedgecutter should be stored in a dry, high or locked up place out of the reach of children.
- ▶ Replace worn or damaged parts for safety.
- ▶ Do not attempt to repair the machine unless you are qualified to do so.
- ▶ Ensure replacement parts fitted are Bosch-approved.
- ▶ To safeguard against contact with the moving cutter blade, this hedge trimmer is constructed with two handles each with a blade control (switch). To operate the hedge cutter, both controls must be actuated simultaneously. **Do not use the tool, if it runs without a switch being actuated or just one switch being actuated.**

Recommendations for Optimal Handling of the Battery

- ▶ **Ensure the switch is in the off position before inserting battery pack.** Inserting the battery pack into machines that have the switch on can cause accidents.
- ▶ **Use only Bosch battery packs intended specifically for the machine.** Use of any other battery packs may create a risk of injury and fire.
- ▶ **Do not open the battery.** Danger of short-circuiting.



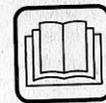
Protect the battery against heat, e. g., against continuous intense sunlight, fire, water, and moisture. Danger of explosion.



- ▶ **In case of damage and improper use of the battery, vapours may be emitted. Ventilate the area and seek medical help in case of complaints.** The vapours can irritate the respiratory system.
- ▶ **Use the battery only in conjunction with your Bosch product.** This measure alone protects 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 can occur and the battery can burn, smoke, explode or overheat.
- ▶ **Do not short-circuit the battery.** There is danger of explosion.
- ▶ Protect the battery against moisture and water.
- ▶ Store the battery only within a temperature range between -20 °C and 50 °C. As an example, do not leave the battery in the car in summer.
- ▶ Occasionally clean the venting slots of the battery using a soft, clean and dry brush.

Safety Warnings for Battery Chargers



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

Save these instructions.

Use the battery charger only when you fully understand and can perform all functions without limitation, or have received appropriate instructions.

- ▶ **This charger is not intended for use by children and persons with physical, sensory or mental limitations or a lack of experience or knowledge. This charger can be used by children aged 8 and above and by persons who have physical, sensory or mental limitations or a lack of experience or knowledge if a person responsible for their safety supervises them or has instructed them in the safe operation of the charger and they understand the associated dangers.** Otherwise, there is a danger of operating errors and injuries.
- ▶ **Supervise children during use, cleaning and maintenance.** This will

ensure that children do not play with the charger.

- ▶ **Only charge Bosch lithium-ion batteries with a capacity of 1.5 Ah or more (5 battery cells or more). The battery voltage must match the battery charging voltage of the charger. Do not charge non-rechargeable batteries.** Otherwise there is danger of fire and explosion.



Keep the battery charger away from rain or moisture. Penetration of water in the battery charger increases the risk of an electric shock.

- ▶ **Only charge Bosch lithium-ion batteries. The battery voltage must match the battery charging voltage of the charger.** Otherwise there is danger of fire and explosion.
- ▶ **Keep the battery charger clean.** Contamination can lead to danger of an electric shock.
- ▶ **Before each use, check the battery charger, cable and plug. If damage is detected, do not use the battery charger. Never open the battery charger yourself. Have repairs performed only by a qualified technician and only using original spare parts.** Damaged battery chargers, cables and plugs increase the risk of an electric shock.
- ▶ **Do not operate the battery charger on easily inflammable surfaces (e. g., paper, textiles, etc.) or surroundings.** The heating of the battery charger during the charging process can pose a fire hazard.
- ▶ **Do not cover the ventilation slots of the battery charger.** Otherwise, the battery charger can overheat and no longer operate properly.

Products sold in GB only: Your product is fitted with a BS 1363/A approved electric plug with internal fuse (ASTA approved to BS 1362).

If the plug is not suitable for your socket outlets, it should be cut off and an appropriate plug fitted in its place by an authorised customer service agent. The replacement plug should have the same fuse rating as the original plug.

The severed plug must be disposed of to avoid a possible shock hazard and should never be inserted into a mains socket elsewhere.

Maintenance

- ▶ **Remove battery before adjusting or cleaning, and before leaving the machine unattended for any period.** Always wear gardening gloves when handling or working near the sharp blades.
- ▶ Examine the machine and replace worn or damaged parts for safety.
- ▶ Always lubricate the cutting blade with protective spray before storage.

- ▶ Keep all nuts, bolts and screws tight to be sure that the machine is in safe working condition.
- ▶ Ensure replacement parts fitted are Bosch-approved.
- ▶ **Always lubricate the cutting blade with protective spray before use.**

Symbols

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

Symbol	Meaning
	Movement direction
	Reaction direction
	Wear protective gloves
	Weight
	Switching On
	Switching Off
	Permitted action
	Prohibited action
	Accessories/Spare Parts

Intended Use

The machine is intended for cutting and trimming hedges and bushes in domestic use.

Technical Data

Cordless hedge trimmer	AHS 48-20 LI				AHS 50-20 LI		AHS 53-20 LI		AHS 55-20 LI		Universal HedgeCut 18-500	Universal HedgeCut 18-550
	...	H49 F..	H49 F..	H49 G..	H49 G..	H49 F..	H49 G..	H49 F..	H49 G..	H49 F..	H49 G..	
Article number	3 600 ...											
No-load stroke rate	min ⁻¹	2600	2600	2600	2600	2600	2600	2600	2600	2600	2600	2600
Blade length	mm	480	500	530	550	500	550	500	550	500	550	550
Tooth opening	mm	20	20	20	20	20	20	20	20	20	20	20
Weight according to EPTA-Procedure 01:2014	kg	2.5	2.5	2.6	2.6	2.5	2.6	2.5	2.6	2.5	2.6	2.6
Serial number	See serial number (type plate) on the machine											
Battery		Li-Ion	Li-Ion									
Article number	2 607 ...											
- 1.5 Ah		... 336 207	... 336 207	... 336 207	... 336 207	... 336 207	... 336 207	... 336 207	... 336 207	... 336 207	... 336 207	... 336 207
- 2.0 Ah		... 336 921	... 336 921	... 336 921	... 336 921	... 336 921	... 336 921	... 336 921	... 336 921	... 336 921	... 336 921	... 336 921
- 2.0 Ah		... 337 211	... 337 211	... 337 211	... 337 211	... 337 211	... 337 211	... 337 211	... 337 211	... 337 211	... 337 211	... 337 211
- 2.5 Ah		... 337 199	... 337 199	... 337 199	... 337 199	... 337 199	... 337 199	... 337 199	... 337 199	... 337 199	... 337 199	... 337 199
Rated voltage	V=	18	18	18	18	18	18	18	18	18	18	18
Capacity												
- 2 607 336 207		1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
- 2 607 336 921	Ah	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
- 2 607 337 211	Ah	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
- 2 607 337 199	Ah	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Number of battery cells												
- 2 607 336 207		5	5	5	5	5	5	5	5	5	5	5
- 2 607 336 921		5	5	5	5	5	5	5	5	5	5	5
- 2 607 337 211		5	5	5	5	5	5	5	5	5	5	5
- 2 607 337 199		5	5	5	5	5	5	5	5	5	5	5
Battery Charger		AL 1830 CV	AL 1830 CV									
Article number	2 607 ...											
	EU	... 225 965	... 225 965	... 225 965	... 225 965	... 225 965	... 225 965	... 225 965	... 225 965	... 225 965	... 225 965	... 225 965
	UK	... 225 967	... 225 967	... 225 967	... 225 967	... 225 967	... 225 967	... 225 967	... 225 967	... 225 967	... 225 967	... 225 967
	AU	... 225 969	... 225 969	... 225 969	... 225 969	... 225 969	... 225 969	... 225 969	... 225 969	... 225 969	... 225 969	... 225 969
Charging current	A	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Allowable charging temperature range	°C	0-45	0-45	0-45	0-45	0-45	0-45	0-45	0-45	0-45	0-45	0-45
Charging period (battery discharged)												
- 1.5 Ah	min	33	33	33	33	33	33	33	33	33	33	33
- 2.0 Ah	min	45	45	45	45	45	45	45	45	45	45	45
- 2.5 Ah	min	60	60	60	60	60	60	60	60	60	60	60
Weight according to EPTA-Procedure 01:2014	kg	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
Protection class		□/II	□/II									

Cordless hedge trimmer	AHS 48-20 LI	AHS 50-20 LI	AHS 53-20 LI	AHS 55-20 LI	Universal HedgeCut 18-500	Universal HedgeCut 18-550
Battery Charger	AL 1815 CV	AL 1815 CV				
Article number	2 607 ...					
	EU	... 226 077	... 226 077	... 226 077	... 226 077	... 226 077
	UK	... 226 079	... 226 079	... 226 079	... 226 079	... 226 079
	AU	... 226 081	... 226 081	... 226 081	... 226 081	... 226 081
Charging current	A	1.5	1.5	1.5	1.5	1.5
Allowable charging temperature range	°C	0-45	0-45	0-45	0-45	0-45
Charging period (battery discharged)						
- 1.5 Ah	min	63	63	63	63	63
- 2.0 Ah	min	84	84	84	84	84
- 2.5 Ah	min	105	105	105	105	105
Weight according to EPTA-Procedure 01:2014	kg	0.38	0.38	0.38	0.38	0.38
Protection class		□/II	□/II	□/II	□/II	□/II

Noise/Vibration Information

Sound emission values determined according to EN 60745-2-15.

Typically the A-weighted noise levels of the product are:
Sound pressure level 71 dB(A); sound power level 91 dB(A).
Uncertainty K = 1 dB.

Wear hearing protection!

Vibration total values a_h (triax vector sum) and uncertainty K determined according to EN 60745-2-15:
 $a_h = 2.5 \text{ m/s}^2$, $K = 1.5 \text{ m/s}^2$.

The vibration level given in this information sheet has been measured in accordance with a standardised test given in EN 60745 and may be used to compare one tool with another. It may be used for a preliminary assessment of exposure. The declared vibration emission level represents the main applications of the tool. However if the tool is used for different applications, with different accessories or insertion tools or is poorly maintained, the vibration emission may differ. This may significantly increase the exposure level over the total working period.

An estimation of the level of exposure to vibration should also take into account the times when the tool is switched off or when it is running but not actually doing the job. This may significantly reduce the exposure level over the total working period.

Identify additional safety measures to protect the operator from the effects of vibration such as: maintain the tool and the accessories, keep the hands warm, organisation of work patterns.

Mounting and Operation

Action	Figure	Page
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Inserting the Battery	2	293
Starting	3	294
Stopping	3	294
Working Advice	4	295
Blade Maintenance	5	296
Storage and Transport	5	296
Selecting Accessories	6	296

Initial Operation

For Your Safety

- ▶ **Warning: Switch off and remove battery from machine before adjusting or cleaning.**
- ▶ **The blades continue to move for a fraction of a second after the hedgecutter is switched off.**
- ▶ **Do not touch the moving blades.**
- ▶ **Do not activate switches until battery is fully attached.**

Battery Charging

► **Do not use other battery chargers.** The supplied battery charger is designed for the Lithium-Ion battery in your garden product.

► **Observe the mains voltage!** The voltage of the power supply must correspond with the data given on the name-plate of the battery charger. Battery chargers marked with 230 V can also be operated with 220 V.

The battery is equipped with temperature monitoring that allows charging only in the temperature range between 0 °C and 45 °C. In this manner, a high battery service life is achieved.

Note: The battery supplied is partially charged. To ensure full capacity of the battery, completely charge the battery in the battery charger before using your power tool for the first time.

The lithium-ion battery can be charged at any time without reducing its service life. Interrupting the charging procedure does not damage the battery.

The "Electronic Cell Protection (ECP)" protects the lithium-ion battery against deep discharging. When the battery is run down or discharged, the garden product is shut off by means of a protective circuit: The garden product no longer operates.

⚠ IMPORTANT Do not continue to press the On/Off switch after the garden product has been automatically switched off. The battery can be damaged.

Charging Procedure

The charging procedure starts as soon as the mains plug of the battery charger is plugged into the socket outlet and the battery is inserted into the charging compartment.

Due to the intelligent charging method, the charging condition of the battery is automatically detected and the battery is charged with the optimum charging current, depending on battery temperature and voltage.

This gives longer life to the battery and always leaves it fully charged when kept in the charger for storage.

Meaning of the Indication Elements (AL 1815 CV)

Flashing Battery Charge Indicator

 **Charge** The charging procedure is signalled by a flashing battery charge indicator.

Continuous Lighting of the Battery Charge Indicator

 **100%** Continuous lighting of the battery charge indicator indicates that the battery is fully charged or that the temperature of the battery is not within the allowable charging temperature range, and cannot be charged for this reason. The battery is charged as soon as the allowable charging temperature range is reached.

When the battery is not inserted, **continuous lighting** of the battery charge indicator indicates that the mains plug is inserted in the socket and that the battery charger is ready for operation.

Meaning of the Indication Elements (AL 1830 CV)

(Fast) Flashing of the Green Battery Charge Indicator

 **Charge** The rapid-charging procedure is indicated by fast flashing of the green battery charge indicator.

Note: The rapid-charging procedure is only possible when the battery temperature is within the allowable charging temperature range, see section "Technical Data".

(Slow) Flashing of the Green Battery Charge Indicator

 **GO 80%** When the charging condition of the battery is 80%, the green battery charge indicator flashes slowly.

The battery can be removed for immediate use.

Continuous Lighting of the Green Battery Charge Indicator

 **100%** Continuous lighting of the green battery charge indicator indicates that the battery is fully charged.

When the battery is not inserted, **continuous lighting** of the battery charge indicator indicates that the mains plug is inserted in the socket and that the battery charger is ready for operation.

Continuous Lighting of the Red Battery Charge Indicator

 **Continuous lighting** of the red battery charge indicator indicates that the temperature of the battery is not within the allowable charging temperature range, see section "Technical Data". As soon as the allowable charging temperature range is reached, the battery charger automatically switches to rapid charging.

Flashing Red Battery Charge Indicator

 A flashing red battery charge indicator indicates a different malfunction of the charging procedure, see section "Troubleshooting – Causes and Corrective Measures".

Troubleshooting – Causes and Corrective Measures

Cause	Corrective Measure
Continuous lighting of the battery charge indicator	
Flashing red battery charge indicator	
No charging procedure possible	
The battery is not attached (correctly)	Attach battery to charger correctly
Battery contacts contaminated	Clean the battery contacts (e.g. by inserting and removing the battery several times) or replace the battery
Battery pack defective	Replace the battery
Battery charge indicators or do not light up	
Mains plug of battery charger not plugged in (properly)	Insert mains plug (fully) into the socket outlet
Socket outlet, mains cable or battery charger defective	Check the mains voltage; have the battery charger checked by an authorised after-sales service agent for Bosch power tools

Charging Advice

With continuous or several repetitive charging cycles without interruption, the charger can warm up. This is not meaningful and does not indicate a technical defect of the battery charger.

A significantly reduced working period after charging indicates that the battery is used and must be replaced.

Working Advice

Sawing Function

Although the tooth opening allows wood to be cut up to Ø 20 mm, the tip of the blade is designed to cut wood up to Ø 25 mm.

Anti Blocking

If the blade stalls on a tough material, the load of the motor increases. The intelligent micro-electronics senses this overload condition and repeatedly reverses the motor, in order to prevent stalling and to cut the material through. This audible reversing cut action continues for up to 3 s. After cutting through, the garden product continues in its normal mode, or in case the overload condition continues the blades automatically stop in the open position (e.g. in case a piece of metal fence accidentally blocks the garden product).

Troubleshooting

The following chart lists problem symptoms, possible causes and corrective action, if your garden product does not operate properly. If these do not identify and correct the problem, contact your service agent.

► **Warning: Switch off and remove the battery prior to any troubleshooting.**

Problem	Possible Cause	Corrective Action
Hedgecutter does not operate	Battery discharged	Recharge battery; also see "Battery Charging"
	Safety switch not activated correctly	see "Initial Operation"
Hedgecutter operates intermittently	Internal wiring of machine damaged	Contact Service Agent
	On/Off switch defective	Contact Service Agent
	Motor reverses repeatedly then stops after 3 s	see "Working Advice" (Anti Blocking)
Motor runs but blades remain stationary	Internal fault	Contact Service Agent
Cutting blade hot	Cutting blade blunt	Have blade sharpened
	Cutting blade has dents	Have blade inspected/overhauled
	Too much friction, due to lack of lubricant	Apply lubricant spray (1 609 200 399)
Blade will not move	Battery discharged	Recharge battery; also see "Battery Charging"
	Machine defective	Contact Service Agent
Excessive vibrations/noise	Machine defective	Contact Service Agent
Cutting time per battery charge too low	Too much friction, due to lack of lubricant	Apply lubricant spray
	Blade needs cleaning	Clean blade
	Poor cutting technique	see "Working Advice"
	Battery not fully charged	Recharge battery; also see "Battery Charging"

Problem	Possible Cause	Corrective Action
Flashing red battery charge indicator	Battery not (properly) inserted	Properly insert battery into battery charger
	Battery contacts contaminated	Clean the battery contacts (e.g. by inserting and removing the battery several times) or replace the battery
No charging procedure possible	Battery pack defective	Replace the battery
The blades are running slow or the anti blocking feature is not functioning	Battery discharged	Recharge battery; also see "Battery Charging"
	Battery stored outside of battery temperature	Allow battery to warm naturally to room temperature (within battery operating temperature 0 – 45 °C)
Battery charge indicators do not light up	Mains plug of battery charger not plugged in (properly)	Insert mains plug (fully) into the socket outlet
	Socket outlet, mains cable or battery charger defective	Check the mains voltage; have the battery charger checked by an authorised after-sales service agent for Bosch power tools

After-sales Service and Application Service

www.bosch-garden.com

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

Great Britain

Robert Bosch Ltd. (B.S.C.)
P.O. Box 98
Broadwater Park
North Orbital Road
Denham
Uxbridge
UB 9 5HJ

At www.bosch-pt.co.uk you can order spare parts or arrange the collection of a product in need of servicing or repair.

Tel. Service: (0344) 7360109

E-Mail: boschservicecentre@bosch.com

Ireland

Origo Ltd.
Unit 23 Magna Drive
Magna Business Park
City West
Dublin 24
Tel. Service: (01) 4666700
Fax: (01) 4666888

Australia, New Zealand and Pacific Islands

Robert Bosch Australia Pty. Ltd.
Power Tools
Locked Bag 66
Clayton South VIC 3169
Customer Contact Center
Inside Australia:
Phone: (01300) 307044
Fax: (01300) 307045

Inside New Zealand:
Phone: (0800) 543353
Fax: (0800) 428570

Outside AU and NZ:
Phone: +61 3 95415555
www.bosch-pt.com.au
www.bosch-pt.co.nz

Republic of South Africa

Customer service
Hotline: (011) 6519600

Gauteng – BSC Service Centre

35 Roper Street, New Centre
Johannesburg
Tel.: (011) 4939375
Fax: (011) 4930126
E-Mail: bsctools@icon.co.za

KZN – BSC Service Centre

Unit E, Almar Centre
143 Crompton Street
Pinetown
Tel.: (031) 7012120
Fax: (031) 7012446
E-Mail: bsc.dur@za.bosch.com

Western Cape – BSC Service Centre

Democracy Way, Prosperity Park
Milnerton
Tel.: (021) 5512577
Fax: (021) 5513223
E-Mail: bsc@zsd.co.za

Bosch Headquarters

Midrand, Gauteng
Tel.: (011) 6519600
Fax: (011) 6519880
E-Mail: rbsa-hq.pts@za.bosch.com