

Please contact HITACHI KOKI U.S.A. LTD. at 1-800-59-TOOLS (toil free), or HITACHI AUTHORIZED POWER TOOL SERVICE CENTER regarding COLLECTION.



Pour le RAMASSAGE, contacter HITACHI KOKI U.S.A. LTD. au 1-800-59-TOOLS (appel gratuit), ou UN SERVICE APRÈS-VENTE D'OUTILS ÉLECTRIQUE AGRÉÉ PAR HITACHI.



Con respecto a la RECOLECCIÓN de baterías, póngase en contacto con HITACHI KOKI U.S.A. LTD. número 1-800-59-TOOLS (llamada gratis), o con HITACHI AUTORIZED POWER TOOL SERVICE CENTER.

Issued by



Shinagawa Intercity Tower A, 15-1, Konan 2-chome, Minato-ku, Tokyo 108-6020, Japan

Distributed by

@Hitachi Koki U.S.A., Ltd.

3950 Steve Reynolds Blvd.

Norcross, GA 30093

Mitachi Koki Canada Co.

450 Export Blvd. Unit B, Mississauga ON L5T 2A4

110 Code No. C99197161 G

Printed in China

Model Modele

Cordless Grass Trimmer Coupe bordure sans fil Cortaseto a batería



SAFETY INSTRUCTIONS AND INSTRUCTION MANUAL

△ WARNING

IMPROPER OR UNSAFE use of this gardening appliance can result in death or serious bodily injury!

This manual contains important information about product safety. Please read and understand this manual BEFORE operating the gardening appliance. Please keep this manual available for other users and owners before they use the gardening appliance. This manual should be stored in safe place.

INSTRUCTIONS DE SECURITE ET MODE D'EMPLO

AVERTISSEMENT

Une utilisation INCORRECTE OU DANGEREUSE de cet appareils de jardinage peut entraîner la mort ou de sérieuses blessures corporelles!

Ce mode d'emploi contient d'importantes informations à propos de la sécurité de ce produit. Prière de lire et de comprendre ce mode d'emploi AVANT d'utiliser l'appareil de jardinage. Garder ce mode d'emploi à la disponibilité des autres utilisateurs et propriétaires avant qu'ils utilisent l'appareil de jardinage. Ce mode d'emploi doit être conservé dans un endroit sûr.

INSTRUCCIONES DE SEGURIDAD Y MANUAL DE INSTRUCCIONES

¡La utilización INAPROPIADA O PELIGROSA de esta herramienta para jardín puede resultar en lesiones de gravedad o la muerte!

Este manual contiene información importante sobre la seguridad del producto. Lea y comprenda este manual ANTES de utilizar la herramienta para jardín. Guarde este manual para que puedan leerlo otras personas antes de utilizar la herramienta para jardín. Este manual debe ser guardado en un lugar seguro.

Titachi Koki

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Français

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IMPORTANT SAFETY INSTRUCTIONS

CONTENTS

before operating or maintaining this gardening appliance. Read and understand all of the safety precautions, warnings and operating instructions in the Instruction Manual

situation before it occurs, and by observing appropriate safety procedures. observe basic safety rules or precautions. An accident can often be avoided by recognizing a potentially nazardous Most accidents that result from gardening appliance operation and maintenance are caused by the failure to

contain the operation and maintenance instructions. Basic safety precautions are outlined in the "SAFETY" section of this Instruction Manual and in the sections which

Hazards that must be avoided to prevent bodily injury or machine damage are identified by WARNINGS on the

NEVER use this gardening appliance in a manner that has not been specifically recommended by HITACHI

gardening appliance and in this Instruction Manual.

VIEANINGS OF SIGNAL WORDS

WARNING indicates a potentially hazardous situations which, if ignored, could resuit in death or serious injury. injury, or may cause machine damage. **CAUTION** indicates a potentially hazardous situations which, if not avoided, may result in minor or moderate

NOTE emphasizes essential information.

SAFETY

GENERAL GARDENING APPLIANCE SAFETY WARNINGS

Ð WARNING:

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

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

Work area safety

- Keep work area clean and well lit.
- Do not operate gardening appliances presence of flammable liquids, gases or dust explosive atmospheres, such as in the Gardening appliances create sparks which Ciuttered or dark areas invite accidents.

- Electrical safety Keep children and bystanders away while Distractions can cause you to lose control. operating a gardening appliance. may ignite the dust or fumes.
- Gardening appliance plugs must match the outlet.

2

Do not use any adapter plugs with earthed Unmodified plugs and matching outlets will Never modify the plug in any way. educe risk of electric shock. grounded) gardening appliances.

- 9 refrigerators. surfaces such as pipes, radiators, ranges and Avoid body contact with earthed or grounded
- Do not expose gardening appliances to rain your body is earthed or grounded. There is an increased risk of electric shock if

೭

- Water entering a gardening appliance will or wet conditions. ncrease the risk of electric shock
- 9 appliance carrying, pulling or unplugging the gardening Do not abuse the cord. Never use the cord for
- Damaged or entangled cords increase the risk or moving parts. Keep cord away from heat, oil, sharp edges
- outdoors, use an extension cord suitable for When operating a gardening appliance outdoor use. of electric shock

e

the risk of electric shock Use of a cord suitable for outdoor use reduces

If operating a gardening appliance in a damp device (RCD) protected supply location is unavoidable, use a residual current

ಲ

Personal safety Use of an RCD reduces the risk of electric shock

<u>ω</u>

are tired or under the influence of drugs, Stay alert, watch what you are doing and use Do not use a gardening appliance while you common sense when operating a gardening

gardening appliances may result in serious A moment of inattention while operating personal injury.

alcohol or medication.

Use personal protective equipment. Always wear eye protection.

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protection used for appropriate conditions skid safety shoes, hard hat, or hearing will reduce personal injuries. Protective equipment such as dust mask, non-

೭

Carrying gardening appliances with your finger on the switch or energising gardening to power source and/or battery pack, picking switch is in the off-position before connecting Prevent unintentional starting. Ensure the up or carrying the gardening appliance.

turning the gardening appliance on. Remove any adjusting key or wrench before

appliances that have the switch on invites

0

A wrench or a key left attached to a rotating part of the gardening appliance may result in personai injury.

œ Do not overreach. Keep proper footing and balance at all times.

appliance in unexpected situations. This enables better control of the gardening

gloves away from moving parts. or jewellery. Keep your hair, clothing and Dress properly. Do not wear loose clothing Loose clothes, Jewellery or long hair can be

ø, ensure these are connected dust extraction and collection facilities caught in moving parts. devices are provided for the connection of and properly

nazards, Use of dust collection can reduce dust-related

Gardening appliance use and care a) Do not force the gardening :

application. the correct gardening appliance for your Do not force the gardening appliance. Use

was designed. The correct gardening appliance will do the job better and safer at the rate for which it

Do not use the gardening appliance if the

ᄧ

controlled with the switch is dangerous and switch does not turn it on and off. must be repaired Any gardening appliance that cannot be

> Disconnect the plug from the power source changing accessories, or storing gardening and/or the battery pack from the gardening appliance before making any adjustments,

accidentally. risk of starting the gardening appliance

these instructions to operate the gardening Store idle gardening appliances out of the unfamiliar with the gardening appliance or reach of children and do not allow persons

<u>e</u>

Gardening appliances are dangerous in the

operation. that may affect the gardening appliance's breakage of parts and any other condition misalignment or binding of moving parts,

maintained gardening appliances. Many accidents are caused by poorly

Properly maintained cutting tools with sharp easier to control. cutting edges are less likely to bind and are

<u>_</u> a hazardous situation. different from those intended could result in Use of the gardening appliance for operations

the manufacturer,

₫ Use gardening appliances only with used with another battery pack pattery pack may create a risk of fire when charger that is suitable for one type of

೭ When battery pack is not in use, keep it away isk of injury and fire.

Shorting the battery terminals together may metal objects, that can make a connection coins, keys, nails, screws, or other small from other metal objects like paper clips from one terminal to another

Such preventive safety measures reduce the

nands of untrained users.

Maintain gardening appliances. Check for

If damaged, have the gardening appliance repaired before use.

Keep cutting tools sharp and clean.

-

Use the gardening appliance, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed.

Battery gardening appliance use and care a) Recharge only with the charger speci

ឲ

Recharge only with the charger specified by

specifically designated battery packs.
Use of any other battery packs may create a

9 If liquid contacts eyes, additionally seel ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. Under abusive conditions, liquid may be cause burns or a fire. Liquid ejected from the battery may cause

> <u>o</u> Service

ల Have your gardening appliance serviced by a replacement parts:
This will ensure that the safety qualified repair person using only identical

œ

gardening appliance is maintained. of the

WARNING:

harm. Some examples of these chemicals are: to cause cancer, birth defects or other reproductive grinding, drilling, and other construction activities contains chemicals known [to the State of California] Some dust created by power sanding, sawing,

ထ

Lead from lead-based paints,

 Crystalline silica from bricks and cement and other masonry products, and

 Arsenic and chromium from chemically-treated lumber.

specially designed to filter out microscopic particles. equipment, such as those dust masks that are ventilated area, and work with approved safety on how often you do this type of work. To reduce Your risk from these exposures varies, depending your exposure to these chemicals: work in a weli

SPECIFIC SAFETY RULES AND SYMBOLS

cutting tool may contact hidden wiring or its own surfaces when performing an operation where the Hold gardening appliances by insulated gripping

 $\ddot{\omega}$

Contact with a "live" wire will make exposed metal parts of the gardening appliance "live" and shock

ALWAYS wear ear protectors when using periods.
Prolonged exposure to high intensity gardening appliance for extended

noise can cause hearing loss.

trimmer by its handle only. moving parts during operation. Hold the grass NEVER place hands or other body parts near the

to operate at any time. battery power, be aware of the fact that it can begin Because the cordless grass trimmer operates ā

បា of all other people and be aware of conditions below you. When working at elevated locations, clear the area

NEVER touch moving parts.

NEVER place your hands, fingers or other body NEVER operate this gardening appliance without parts near the gardening appliance's moving parts. NEVER operate without all guards in place.

7

working order. It maintenance or servicing requires

resuming operation of the gardening appliance. the removal of a guard or safety feature, be sure to replace the guard or safety feature before

appliance.

Don't use gardening appliance for purpose not Don't force small gardening appliance or attachment to do the job of a heavy-duty gardening Use right gardening appliance.

for cutting tree limbs or logs.

NEVER use a gardening appliance for applications intended —for example— don't use circular saw

NEVER use a gardening appliance for applications other than those specified in the Instruction other than those specified.

ġ Manual,

Handle gardening appliance correctly

Operate the gardening appliance according to the instructions provided herein. Do not drop or throw the gardening appliance. **NEVER** allow the individuals unfamiliar with its operation or gardening appliance to be operated by children, unauthorized personnel

12 크 Keep all screws, bolts, and plates tightly mounted. Keep all screws, bolts and covers tightly in place. Check their condition periodically.

Do not use gardening appliances if the plastic housing or handle is cracked.

Accessories must be securely mounted to handle can lead to electric shock. Such gardening Cracks in the gardening appliance's housing appliances should not be used until repaired. the ខ្ម

gardening appliance.
Prevent potential injuries to yourself or others. been mounted to the gardening appliance should Cutting implements and accessories which have be secure and tight.

7 NEVER use a gardening appliance which defective or operating abnormally.

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unusually, making strange noises, or otherwise appears defective, stop using it immediately and arrange for repairs by a Hitachi authorized service center If the gardening appliance appears to be operating

댨 Carefully handle gardening appliances.
Should a gardening appliance be dropped or struck against hard materials inadvertently, it may be

5 Do not wipe plastic parts with solvent.
Solvents such as gasoline, thinner benzine, carbon deformed, cracked, or damaged

Wipe plastic parts with a soft cloth lightly dampened with soapy water and dry thoroughly. tetrachloride, and alcohol may damage and crack plastic parts. Do not wipe them with such solvents.





ऴ This product contains a strong permanent magnet in the motor.

Observe the following precautions regarding adhering of chips to the gardening appliance and the effect of the permanent magnet on electronic

二

ΘÞ CAUTION:

- Do not place the gardening appliance on a workbench or work area where metal chips are The chips may adhere to the gardening appliance present 12
- (0) If chips have adhered to the gardening appliance, do not touch it. Remove the chips with a brush. Failure to do so may result in injury. resulting in injury or malfunction.
- ω device, do not operate or approach the gardening If you use a pacemaker or other electronic medical ಚ
- **(4)** or loss of data Doing so may lead to misoperation, malfunction cards or electronic memory media. of precision devices such as cell phones, magnetic Do not use the gardening appliance in the vicinity Operation of the electronic device may be affected
- 9 Definitions for symbols used on this gardening appliance

.....volts

킁 direct current no load speed

-/min revolutions or reciprocation per minute

PRECAUTIONS FOR CORDLESS GRASS

Ð WARNING:

- Avoid Dangerous Environment Don't use appliances in damp or wet locations.
- Keep Children Away All visitors should be kept)on't Use In Rain.

at a distance from work area.

- jewelry. They can be caught in moving parts. Use of rubber gloves and substantial footwear is recommended when working outdoors. Wear Dress Properly - Do not wear loose clothing protective hair covering to contain long hair. 으
- Ç if operation is dusty. Jse Safety Glasses - Always use face or dust mask
- ō any job except that for which it is intended. Use Right Appliance - Do not use appliance for
- switch is off when plugging in. plugged-in appliance with finger on switch. Be sure Avoid Unintentional Starting - Don't carry
- 00 Don't Force Appliance - It will do the job better with less likelihood of a risk of injury at the

o

5 at all times.

Stay Alert - Watch what you are doing. Use Don't Overreach - Keep proper footing and balance

က

- common sense. Do not operate appliance wher ou are tired.
- damaged. Keep handles dry, clean, and free from oil and grease.

 Check Damaged Parts -- Before further use of the Store Idle Appliances Indoors - When not in use extension cords periodically and replace appliance cord periodically, and if damaged, have it repaired by an authorized service facility. Inspect sharp and clean for best performance and to reduce the risk of injury. Follow instructions for Maintain Appliance With Care - Keep cutting edge lubricating and changing accessories. Inspect appliances should be stored indoors in dry, and nigh or locked-up place – out of reach of children.
- should be properly repaired or replaced by an binding of moving parts, breakage of parts, mounting, and any other condition that may affect function. Check for alignment of moving parts, should be carefully checked to determine that elsewhere in this manual. authorized service center unless indicated will operate properly and perform its intended appliance, a guard or other part that is damaged its operation. A guard or other part that is damaged
- 456 Do not charge appliance in rain, or in wet locations
- Remove or disconnect battery before servicing, cleaning or removing material from the gardening Do not use battery-operated appliance in rain.
- 7 Use only the following type and battery(ies):BSL1830 Size
- <u>ऴ</u> Do not dispose of the battery(ies) in a fire. oossible special disposal instructions. The cell may explode. Check with local codes for
- <u>19</u> Do not open or mutilate the battery(ies). damage to the eyes or skin. It may be toxic Released electrolyte is corrosive and may cause
- 2 Exercise care in handling batteries in order not to short the battery with conducting materials such swallowed.
- as rings, bracelets, and keys.
 The battery or conductor may overheat and cause
- 21. 88Plan all work ahead to prevent accidents. Exercise patience in all work with the gardening appliance. And dress properly to keep warm.
- is poor. And do not operate the gardening appliance when it is raining or right after it has been raining. or under bad weather conditions when visibility is poor. And do not operate the gardening Do not operate the gardening appliance at night
- Working on slippery ground could lead to accident if you lose your balance.

- 24 Inspect the nylon head before starting work.

 Do not use the gardening appliance if the nylon head is cracked, scarred or bent.
- nylon head that falls apart or comes loose during Make sure the nylon head is properly attached. operation could cause an accident.
- 8 Be sure to attach the cover before starting work parts could lead to injury Operating the gardening appliance without this
- 26 posture and maintain your balance. gardening appliance around, but use the correct handle firmly during work and do not swing the Be sure to attach the loop handle before starting attached before starting work. Hold the loop work. Wake sure it is not loose but properly osing your balance during work could lead to an
- 27 Make sure that the nylon head does not come into Place the gardening appliance on level ground.

 Do operate the gardening appliance within 50ft. Take care when starting the motor. 15 m) of people or animals.
- 8 Accidentally pulling back the lever could lead to A careless start could lead to injury. Do not secure the lock lever. contact with the ground or trees and plants
- unexpected injury
- 29 Before leaving the gardening appliance, press the power button to turn it off.
- $\frac{\omega}{2}$ 엉 electric cables, gas pipes and similar installations. Operate the gardening appliance with care near
- Working in such areas could damage the nylon head or lead to injury. or other obstacles before starting work. And Look out for and remove empty cans, wire, stones or other obstacles before starting work. And do not work near tree roots or rocks.
- స Never touch the nylon head during operation.

 Also make sure it does not come into contact with your hair, clothes, etc.
- ႘ၟ In the following situations, turn off the motor and check that the nylon head has stopped rotating. To remove rubbish or grass that has become stuck To move to another work area.
- To lay down the gardening appliance. Doing this with the nylon head still rotating could rubbish, grass and chips generated by trimming. To remove from the work area obstacles or the in the gardening appliance.
- ω Do not use the gardening appliance within 50ft. lead to unexpected accidents. 15 m) of another person.

When you work with someone else, maintain

- Flying chips could lead to unexpected accidents. distance of more than 50ft. (15 m). make sure that your co-worker is not exposed to When working on unstable surfaces like slopes
- attention of your co-workers Use whistles or other means for calling 댦

- អ sure the nylon head has stopped rotating before When grass and other objects become entangled in the nylon head, turn off the motor and make removing them.
- still rotating will lead to injury. Removing objects from the nylon head when it is Continuing operation when foreign matter is stuck
- 8 If the gardening appliance is operating poorly and inspected and repaired. motor immediately and ask your dealer to have it produces strange noise or vibrations, turn off the in the nylon head may lead to damage.
- to injury or gardening appliance damage. Continued use under these conditions could lead
- 3 cracks or deformation. inspect it carefully to check there is no damage, If you drop or bump the gardening appliance,
- Using a gardening appliance that is damaged, cracked or deformed could result in injury.
- မ္တ Failure to heed this warning may result in Secure the gardening appliance during vehicle transport to ensure that it lies still. 3

CAUTION

- **→** Þ Do not turn on the nylon head for cutting objects soil does not come into contact with the nylon appliance in water puddles and make sure that other than grass. Do not operate the gardening
- The gardening appliance contains precision parts and should not be dropped, exposed to strong
- impact or water.
 The gardening appliance could be damaged or
- Do not expose the gardening appliance to When the gardening appliance is to be stored after use or be transported, remove the nylon head.
- Such chemicals could cause cracking and other insecticide and other chemicals.
- Ġ they start to peel. become difficult to recognize or illegible and when Replace warning labels with new labels when they
- g since it may be very hot. Do not touch the motor immediately after use Ask your dealer to provide the warning labels.

BATTERY CHARGER IMPORTANT SAFETY INSTRUCTIONS FOR

WARNING:

avoid these risks, follow these basic safety improper or unsafe use of battery chargers. To instructions: Death or serious bodily injury could result from

READ ALL INSTRUCTIONS

- operating instructions for battery charger Model This manual contains important safety and JC18YGSL.
- Before using battery charger, read all instructions

œ

- and cautionary markings on (1) battery charger, (2) battery, and (3) product using battery.

 To reduce risk of injury, charge HITACHI rechargeable battery type: for UC18YGSL--BS11830. Other type of batteries may burst causing personal injury and damage.

 Do not expose battery charger to rain or snow.

 Use of an attachment not recommended or sold by the battery charger manufacturer may result in

risk of fire, electric shock, or injury to persons.

- . pull by plug when disconnecting battery charger. Make sure cord is located so that it will not be to damage or stress. stepped on, tripped over, or otherwise subjected To reduce risk of damage to electric plug and cord
- absolutely necessary. Use of improper extension cord could result in a risk of fire and electric shock. If extension cord must be used make sure:

 a. That blades of extension cord are the same An extension cord should not be used unless
- number, size, and shape as those of plug on
- O battery charger: That extension cord is properly wired and in
- ç good electrical condition; and rating of battery charger as specified in hat wire size is large enough for AC ampere

EXTENSION CORDS FOR BATTERY CHARGERS RECOMMENDED MINIMUM AWG SIZE FOR

3 4 18 18 16	2 3 18 18 16	0 2 18 18 18	greater than than 25 (7.5) 50 (15) 100 (3	Equal to or but less Length of Cord, Feet (Meter)	AC Input Rating Amperes* AWG Size of Cord	
16	16	18	(15) 100 (30)	ord, Feet (Meter)	/G Size of Cord	
14	14	16	150 (45)			

watts rather than in amperes, the corresponding ampere rating is to be determined by dividing the If the input rating of a battery charger is given in wattage rating by the voltage rating-for example:

,250 watts = 10 amperes 125 volts

- Do not operate battery charger with damaged cord
- ನ sharp blow, been dropped, or otherwise damaged or plug-replace them immediately.

 Do not operate battery charger if it has received a in any way; take it to a qualified serviceman.
- Do not disassemble battery charger, take it to a qualified serviceman when service or repair is of electric shock or fire. required. Incorrect reassembly may result in a risk
- 7 from receptacle before attempting any maintenance or cleaning. Removing the battery will not reduce this risk To reduce risk of electric shock, unplug charger any

CHARGER USE OF THE BATTERY AND BATTERY IMPORTANT SAFETY INSTRUCTIONS FOR

and in this manual instructions and cautionary statements on it, the battery gardening appliance. Before using the mod UC18YGSL battery charger, be sure to read You must charge the battery before you can use the the model

REMEMBER: USE ONLY HITACHI BATTERY TYPES: FOR UC18YGSL---BSL1830. OTHER TYPES OF BATTERIES MAY BURST AND CAUSE INJURY!

Follow these instructions to avoid the risk of injury:

D WARNING:

lead to serious injury. To avoid these injuries: improper use of the battery or battery charger can

- ∾-NEVER disassemble the battery, even if it is can explode in a fire. damaged or is completely worn out. The battery
- short-circuit the battery.

- NEVER insert any objects into the battery charger's air vents. Electric shock or damage to the battery charger may result.
- NEVER charge outdoors. Keep the battery away from direct sunlight and use only where there ow humidity and good ventilation.

G

- Ø **NEVER** charge when the temperature is below 32°F (0°C) or above 104°F (40°C).
- ∞.√ NEVER insert foreign objects into the hole for the NEVER connect two battery chargers together.
- 9.0 **NEVER** use a booster transformer when charging. **NEVER** use an engine generator or DC power to battery or the battery charger.
- 그 charge.

 NEVER store the battery or battery charger in places where the temperature may reach or exceed
- ₽ ALWAYS operate charger on standard household electrical power (120 volts). Using the charger on any other voltage may overheat and damage the 04°F (40°C).
- 렸 ALWAYS wait at least 15 minutes between charges
- 4 to avoid overheating the charger.

 ALWAYS disconnect the power cord from receptacle when the charger is not in use. :ts

CAUTION ON LITHIUM-ION BATTERY

product, even if you are pulling the switch, the motor may stop. This is not the trouble but the result of in the cases of 1 to 3 described below, when using this protection function. with the protection function to stop the output To extend the lifetime, the lithium-ion battery equips

- motor stops. When the battery power remaining runs out, the In such case, charge it up immediately.
- If the gardening appliance is overloaded, the motor may stop. In this case, release the switch of gardening appliance and eliminate causes of overloading. After

Ņ

In this case, stop using the battery and let the battery cool. After that, you can use it again. Furthermore, please heed the following warning and the battery power may stop. If the battery is overheated under overload work, hat, you can use it again.

WARNING

caution.

In order to prevent any battery leakage, heat generation, smoke emission, explosion and ignition beforehand,

 please be sure to heed the following precautions.
 Make sure that swarf and dust do not collect on he battery.

О fall on the battery. During work make sure that swarf and dust do not

О gardening appliance during work do not collect on the battery. Make sure that any swarf and dust falling on the

- 0 0 exposed to swarf and dust. Do not store an unused battery in a location
- Before storing a battery, remove any swarf and dust that may adhere to it and do not store it Do not pierce battery with a sharp object such as a together with metal parts (screws, nails, etc.)
- nail, strike with a hammer, step on, throw or subject the battery to severe physical shock
- Do not use an apparently damaged or deformed batter,
- car cigarette lighter sockets. Do not connect directly to an electrical outlets or Do not use the battery in reverse polarity.
- those specified. Do not use the battery for a purpose other than
- If the battery charging fails to complete even when a specified recharging time has elapsed immediately stop further recharging.
- <u>;</u> ဖ œ microwave oven, dryer, or high pressure container. Keep away from fire immediately when leakage or toul odor are detected. Do not put or subject the battery to high temperatures or high pressure such as into
- Do not use in a location where strong static electricity generates.
- If there is battery leakage, foul odor, heat equipment or battery charger, and stop use. appears abnormal during use, recharging or storage, immediately remove it from the generated, discolored or deformed, or in any way

CAUTION

- .,⊳ If liquid leaking from the battery gets into eyes, do not rub your eyes and wash them contact a doctor immediately with fresh clean water such as tap water and n well
- problems. If left untreated, the liquid may cause eye-
- If liquid leaks onto your skin or clothes, wash well with clean water such as tap water immediately. There is a possibility that this can cause skin
- deformation, and/or other irregularities when using the battery for the first time, do not use and return If you find rust, foul odor, overheating, discolor, it to your supplier or vendor.

WARNING:

terminals of the lithium ion battery, a short-circuit may occur resulting in the risk of fire. Please observe the following matters when storing the battery. If an electrically conductive foreign object enters the

 Do not place electrically conductive cuttings, nails, steel wire, copper wire or other wire in the storage

0 Install the battery in the gardening appliance until the ventilation holes shown in Fig. 1 are concealed

English

AND MAKE THEM AVAILABLE TO OTHER USERS AND OWNERS OF THIS GARDENING APPLIANCE! SAVE THESE INSTRUCTIONS

FUNCTIONAL DESCRIPTION

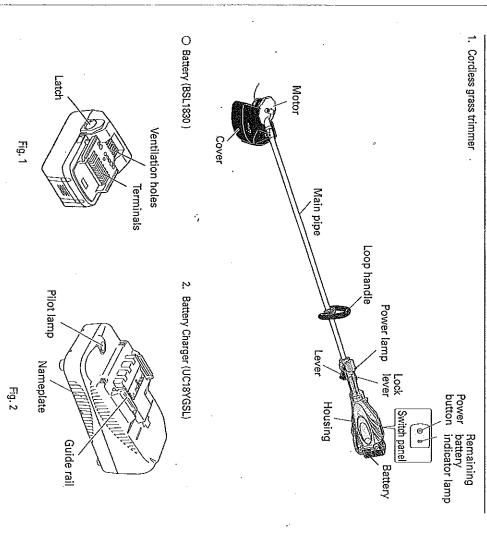
NOTE:

The information contained in this instruction Manual is designed to assist you in the safe operation and maintenance of the gardening appliance.

NEVER operate, or attempt any maintenance on the gardening appliance unless you have first read and understood all safety instructions contained in this manual.

own gardening appliance. Some illustrations in this Instruction Manual may show details or attachments that differ from those on your

NAME OF PARTS



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English

SPECIFICATIONS

Cordless Grass Trimmer

9.5 lbs. (4.3 kg)	Weight (with nylon head, type BSL1830 battery and cover)
DC 18 V	Voltage
Li-ion battery	Туре
BSL1830	Battery Model
65-3/4"× 12-19/32"× 9-27/32" (1,670 mm × 320 mm × 250 mm) (with type BSL1830 inserted)	Total length x total width x full height
Loop handle	Handle type
18 – 22 min *²	Operating time on one charge *1 (When supplied rechargeable battery is fully charged)
Disc Motor	Motor
5,000/min	No-load speed
Counterclockwise as seen from above	Rotation direction
12" (310 mm)	Cutting capacity diameter
Straight type	Pole type
CG18DSDL	Model

The data in the above table is provided only as an example. Since type of grass, ambient temperature, rechargeable battery characteristics, work methods, etc. can vary widely the above should only be used as a rough guideline.

*2 Conditions: Outer diameter of nylon head 12" (310 mm), switch set to full speed. (switch left ON all the time)

'n Battery Charger

0.9 lbs. (0.4 kg)	Weight
DC 2.0 A	Charging current
DC 14.4 – 18 V	Charging voltage
Approx. 90 min BSL1830	Charging time (At a temperature of 68°F (20°C))
Single phase: AC 120 V 60 Hz	Input power source
UC18YGSL	Model
Management of the second of th	

ASSEMBLY AND OPERATION

APPLICATIONS

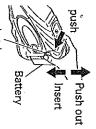
Trimming, scaling and mowing of weed.

OF BATTERY REMOVAL AND INSTALLATION METHOD

₽ CAUTION Never short-circuit the battery.

'n Battery installation Insert the battery while observing its polarities (see

Fig. 3).



atch

Fig. 3

CHARGING METHOD

NOTE: Before plugging into the receptacle, make sure the following points.

0 The power source voltage is stated on the nameplate.

0 The cord is not damaged

Þ WARNING:

If charged at voltage higher than indicated on the nameplate, the charger will burn out. Do not charge at voltage higher than indicated on the nameplate.

> Insert the plug of battery charger into the When the plug of battery charger has been inserted into the receptacle, pilot lamp will blink in red. (At 1-second intervals) receptacle.



Do not use the electrical cord if damaged. Have it repaired immediately.

insert the battery to the battery charger. Insert the battery into the battery charger as shown in Fig. 4. Make sure it contacts the bottom of the battery charger.

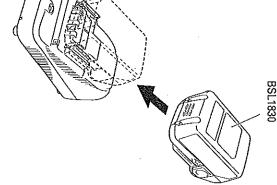


Fig. 4

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 O^{ω}

Charging
When the battery is inserted into the battery charger, charging will commence and the pilot lamp will light in red. (See Table 2)

> Ο When the battery is fully charged, the pilot lamp will blink in red slowly. (At 1-second intervals) (See Table 2)

NOTE

If the pilot lamp does not light or blink in red, pull out the plug from the receptacle and check if the battery is properly mounted

					_
		Pilot lamp (red)			
Charging impossible	Overheat standby	Charging complete	While charging	Before charging	
Flickers	Blinks	Blinks	Lights	Blinks	11
Flickers Lights for 0.1 seconds. Does not light for 0.1 seconds. (off for 0.1 seconds) 圆圆圆圆圆圆圆圆圆圆	Lights for 1 second. Does not light for 0.5 seconds. (off for 0.5 seconds)	Lights for 0.5 seconds. Does not light for 0.5 seconds, (off for 0.5 seconds)	Lights continuously	Lights for 0.5 seconds. Does not light for 0.5 seconds, (off for 0.5 seconds)	Indications of the pilot lamp
Malfunction in the battery or the charger	Battery overheated. Unable to charge. (Charging will commence when battery cools)		\		

O Regarding the temperature of the rechargeable

The temperatures for rechargeable batteries are as shown in the Table 3, and batteries that have become hot should be cooled for a while before being recharged.

Table 3 Recharging ranges of batteries

BSL1830	Rechargeable batteries
32°F − 122°F	Temperatures at which the
(0°C − 50°C)	battery can be recharged

Regarding recharging time Table 4 shows the recharging time required according to the type of battery

Table 4 Recharging time (approx. min.) at 20°C

90 min.	BSL1830	18V
Ah	3.0 Ah	
ATTERY	. Li-ion BATTERY	Battery Voltage (V)
acity (Ah)	Battery capacity (Ah	

NOTE

4

ambient temperature. The recharging time may vary according to the

> 4 Disconnect battery charger from the receptacle

D CAUTION

on the cord.

Make sure to grasp the plug when removing from Do not pull the plug out of the receptacle by pulling receptacle to avoid damaging cord.

បា Hold the charger firmly and pull out the battery. Supporting the battery charger with hand, pull out the battery from the battery charger

NOT:

After operation, pull out batteries from the charger first, and then keep the batteries properly.

Regarding electric discharge in case of new

and batteries that have not been used for an extended period is not activated, the electric discharge might be low when using them the first and second time. This is a temporary phenomenon, and normal time required for recharging will be restored by recharging the batteries 2-3 times. As the internal chemical substance of new batteries

How to make the batteries perform longer.

0

O Recharge the batteries before they become appliance becomes weaker, stop using the gardening appliance and recharge its battery. If you Avoid recharging at high temperatures. damaged and its life will become shorter. exhaust the electric current, the battery may be continue to use the gardening appliance and When you feel that the power of the gardening completely exhausted. the

deteriorate, and the battery life will be shortened after use, its internal chemical substance wil after use. If such a battery is recharged immediately A rechargeable battery will be hot immediately for a while. Leave the battery and recharge it after it has cooled

● ⊳ CAUTION

constituting the cause of the failures. Once the charging has been completed, give 15 minutes rest When the battery charger has been continuously used, the battery charger will be heated, thus until the next charging.

0.5 seconds). been used, the pilot lamp of the charger lights for 1 second, does not light for 0.5 seconds (off for it has been left for a long time in a location subject to direct sunlight or because the battery has just f the battery is charged while it is heated because

intervals), check for and take out any foreign objects in the charger's battery connector. If there When the pilot lamp flickers (at 0.2-second let the battery cool before charging. The battery will not be recharged. In such a case,

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your authorized Service Center.

battery or charger is malfunctioning. Take it to are no foreign objects, it is probable that the

- Charging times may be longer depending on the
- 0 surrounding temperature and battery conditions. Charge time lamp indications are only a guide, and temperature and battery conditions. may vary depending on the surrounding

O

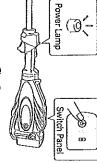
Remove the battery from the charger when not in

ABOUT POWER LAMP

The power lamp indicates various statuses for the gardening appliance. (Fig. 5)
Table 5 shows the various statuses indicated by the

power lamp.

State of lamp	Status of Gardening appliance
Off	Power OFF
Red	Power ON
	The over-heat protection circuit of the gardening appliance is operating.
Blinking red	The lever is being pressed while
	the overload protection circuit of
	the gardening appliance is operating.
المستعددة المائمة	The gardening appliance is
Calcaly biniking rea	operating abnormally.



<u>뒤</u>g. 5

ABOUT REMAINING BATTERY INDICATOR

Please charge the gardening appliance as soon as possible. battery power is low. (Fig. 6) The remaining battery lamp blinks when the remaining

indicator lamp and the battery remaining power. The table 6 shows the state of remaining battery

(3C)	Ō	State of lamp
The battery remaining power is nearly empty. Re-charge the battery soonest possible.	The battery remaining power is enough.	Battery Remaining Power

As the remaining battery indicator shows somewhat differently depending on ambient temperature and battery characteristics, read it as a reference.

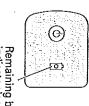


Fig. 6 Remaining battery indicator lamp

NOTE

PRIOR TO OPERATION break it. It may lead to a trouble. Do not give a strong shock to the switch panel or

Þ CAUTION:

Pull out battery before doing any assembly.

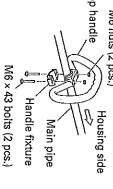
2

Installing the loop handle (Fig. 7)
Remove the finger-tight M6 × 43 bolts (2 pcs.). Install the loop handle on the main pipe so that it

 $\overline{\omega}$ <u>83:</u> leans against the housing.

Place the handle fixture at the lower end of the main pipe and secure it firmly using M6 x 43 bolts. ω

Loop handle (2 pcs.) and M6 nuts (2 pcs.). M6 nuts (2 pcs.) Housing side



NOTE

a good grip. Secure the loop handle in a location that provides

Fig. 7

D CAUTION: Install the loop handle properly and securely as instructed in the handling instructions. If not attached properly or securely, it may come

Ņ Installing cover (Fig. 8, 9)

off and cause injury.

Ð

Be sure to install the cover in its designated WARNING:

from flying stones. failure to heed this warning may result in injury

installation. Use the supplied Allen wrench 4mm for

Use the supplied D5 tapping screw to install the knife in the cover. (Fig. 8)

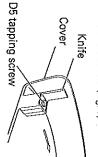
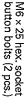
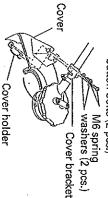


Fig. 8

Align the two holes in the cover bracket and the cover and insert two M6 x 25 hex, socket button bolts passed through a M6 spring washer motor case., respectively. (The cover bracket is installed in the

button bolts until they are properly tightened. Place the cover holder on the underside of the alternately tighten the two M6 \times 25 hex. socket cover and use the supplied Alien wrench 4 mm to





CAUTION:

0 \bigcirc Install the cover and knife properly and securely Take care to avoid cutting yourself on the knife inside the cover.

come off and cause injury. If not attached properly or securely, they may as instructed in the handling instructions.

NYLON HEAD

Installation of semi-auto nylon head

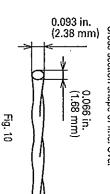
Function

it is tapped Automatically feeds more nylon cutting line when

Specifications

334127	Code No. attaching
Female screw	Type of attaching screw
Counterclockwise	Direction of rotation
M10× P1.25-LH	Size of attaching screw

Applicable nylon cord Cord diameter: Fig. 10 Length: 6.56 ft. (2 m) Cross-section shape of line: Oval



CAUTION:

000 cracks or other damage. The case must be securely attached to the cover. Check the cover, case and other components for

O If the wear limit mark on the case is no longer visible or there is a hole in the bottom of the Check the case and button for wear. button, change the new parts immediately.

0 hreaded fastener of the motor case The nylon head must be securely mounted to the

O metal wire rope and the like that could become a For outstanding performance and reliability dangerous projectile. always use Hitachi nylon cutting line. Never use

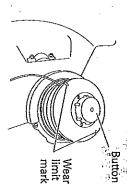


Fig. 11

0 components are properly installed. Contact your Hitachi dealer if you need assistance. properly, check that the nylon line and all If the nylon head does not feed cutting line

Installation (Fig. 12, 13)

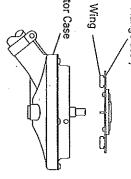
3,5 assy and the motor case, insert the Allen wrench 4 motor case side. Next, align the holes of the flange Insert the flange assy into the motor case. At this mm, and then turn to tighten the flange assy. time, the wing of the flange assy should face the

Flange ass'y

fastener of the motor case.

Ø

Screw the nylon head directly to the threaded



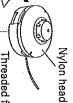


Fig. 12

Cover

Screw Allen wrench 4 mm hreaded fastener Flange ass'y ·Hole Motor case

ö ဌ

CAUTION:

₽

If not attached properly or securely, it may come Install the nylon head properly and securely as instructed in the handling instructions. off and cause injury

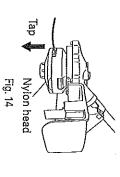
0 The mounting nut of nylon head is left-hand-threaded. Turn clockwise to loosen/ counterclockwise to tighten. loosen/

Adjustment of line length

≘∺ Rotate and tap the nylon head on the ground. Nylon line is drawn out abt, 1-3/16"(30 mm) by one

8

Pull the line taught so there is no slack, and then cut the line to an extended length of 3-17/32"– 4-5/16" (90 mm – 110 mm) with saissors. (Fig. 24)



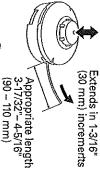
time the motor must be completely stopped. Also, you can extend nylon line with hands. This

Confirm the line extends in 1-3/16" (30 mm) increments by "tapping" and "releasing" the bottom button while pulling the line ends of the nylon head. (Fig. 15) Appropriate length of nylon line

Ine appropriate length of the line when the gardening appliance is in use is 3-17/32"- 4-5/16" (90 - 110 mm). Extend the line to the appropriate length.

Œ

lap/release



- 댦
- 4<u>E</u> Nylon line replacement Prepare 6.56 ft. (2 m) of genuine nylon line in Fig. 10. (Code No.334128) of line can be used. If the cross section is circular, 0.055 in. (ø1.4 mm)
- € Press the opposing tabs, and then remove the cover from the case. (Fig. 16)

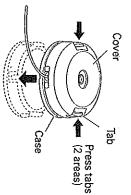
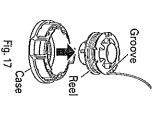


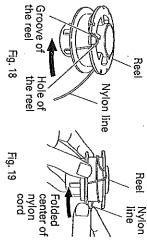
Fig. 16

Oω the groves, and then remove the reel If there is nylon line remaining, hook the line Remove the reel from the case. (Fig. 17)

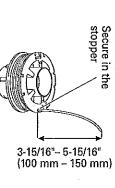
> O If the nylon line does not extend when there is enough nylon line remaining, or when replacing the nylon line (Code No. 334128), wind the nylon line using the following procedure.



Hook the nylon line in the grooves of the reel as shown in Fig. 18 and 19, and then wind the line in does not cross the direction of the arrow so that the nylon line



জ Leave about 3-15/16" - 5-15/16" (100 mm - 150 mm) the stopper. (Fig. 20) nylon cord unwound, hook and secure the line in



Do not cross the nylon line when securing the line in the stopper. (Fig. 21)



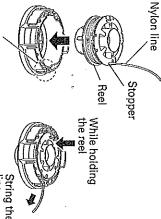
Fig. 21

Align the position of the stopper and eyelet line guide, and then insert the button through the case. Release the line from the stopper while holding the reel lightly, and then string the line through the eyelet line guide. (Fig. 22)

Extended length 3-17/32" - 4-5/16"

(90 mm - 110 mm)

Fig. 24



is poor.

Do not operate the gardening appliance when it or under bad weather conditions when visibility

could cause you to lose your balance and fall.

Do not operate the gardening appliance at night

WARNING:

Eyelet line guide

Press and snap the tabs of the case in the locking holes of the cover. (Fig. 23)

 Ξ

Ð WARNING:

Operating the gardening appliance while the parts are not firmly snapped together may results in accidents or injury from flying part into the locking holes.

Locking holes of cover (2 holes) (2 tabs) Tabs of case

6

OPERATION Irimming grass

String the through

the eyelet

line guide

Place the right hand on the handle and the left

hand on the loop handle and hold it firmly.

Take care not to move the nylon head too close

steep, trim by moving towards the ridge. When trimming grass on slopes that are not so Do not use the gardening appliance on steep Wear proper footwear to prevent slipping that is raining or right after it has been raining.

Check to make sure the tabs are firmly snapped Do not raise the nylon head above your knee during cutting.

to your feet.

nylon head may come into contact with stones, Do not use the gardening appliance where the tree and other obstacles.

Do not use the gardening appliance within 50ft. someone else, maintain a distance of more than 50ft. (15 m). (15 m) of another person. When you work with

Oiv-

Insert the battery while observing its polarities. Turn on the gardening appliance. (Fig. 25) Press the power button on the housing, the power goes on and the power lamp on the handle lights

O Pressing the power button a second time turns the power off and the red lamp on the handle goes off.

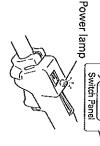


Fig. 25

[Auto power off]

used for one minute, the gardening appliance is automatically turned off. To turn the gardening second time, appliance on again, press the power button When the power is turned on but the lever is not

₽ WARNING:

power on. This could result in an accident. Never leave the gardening appliance with the

 O^{ω} Grip the handle from above, press the lock lever and pull the lever to start nylon head rotation. rimming grass

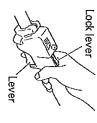


Fig. 26

O Release the lever when you finish trimming and stop the motor.

0 Place your thumb on the loop handle and grip the handle with your other fingers. (Fig. 27)

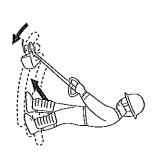


O Take a posture that makes it easy to move.

8

[Grass trimming techniques]

Do not swing the pipe, but use the hips to move the nylon head horizontally from right to left in an arc head for cutting grass. (Fig. 28) while going forward and use the left side of the nylon



ġ 8

OPERATIONAL CAUTIONS

Continuous work

will rise and eventually trigger the over-heat protection circuit, which will shut down the trimming work, gardening appliance temperature that control the rechargeable battery. In continuous protection circuit that protects the electronic parts gardening appliance. This gardening appliance comes with an over-heat

ယ

appliance. When the rechargeable battery has to be exchanged during continuous operation, let the it will again become possible to use the gardening for a length of time. When the temperature drops, gardening appliance rest for about 15 minutes. f this happens, let the gardening appliance cool

Overload Protection

down the motor. If this happens, turn OFF the overload. power, and then resolve the problem causing the head, etc.), the overload protection circuit shuts overload during trimming work (locking the nylon controlling the gardening appliance. In continuous protection circuit to protect the electronic parts This gardening appliance comes with an overload

If this happens, resolve the problem causing the overload, and then switch the power button ON to The power lamp blinks if the lever is pressed after the motor has stopped (see page 15, "ABOUT POWER LAMP"). The power automatically turns OFF if the power lamp blinks longer than 5 seconds. resume using the gardening appliance.

CAUTION

MAINTENANCE AND INSPECTION

Ð

maintenance Pull out battery before doing any inspection or

Replace worn nylon head with new ones. the efficiency of the motor and burn it out worn or broken nylon head can slip or decrease Checking the condition of the nyion head The nylon head should be checked regularly. If

₽ CAUTION

If you use a nylon head of which point is worn or broken, it will be dangerous. So replace it with a new one.

'n Check the Screws

them and make sure they are tight Loose screws are dangerous. Regularly inspec-

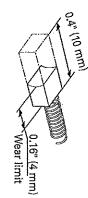
€ CAUTION

Using this gardening appliance with loosened screws is extremely dangerous.

consumable parts. Since and excessively worn worn to or near the "wear limit". In addition, carbon brush can result in motor trouble, replace the carbon brush with new ones when it becomes they slide freely within the brush holders. always keep carbon brushes clean and ensure that The motor employs carbon brushes which are Inspecting the carbon brushes (Fig. 29)

NOTE

999015 When replacing the carbon brush with a new one, be sure to use the Hitachi Carbon Brush Code No.



brush tube Contact portion of

Fig. 29

4 Take out the carbon brush by first removing the brush cap and then hooking the protrusion of the carbon brush with a flat head screw driver, etc., as shown in Fig. 30 and Fig. 31. Replacing carbon brushes

> When installing the carbon brush, choose the direction so that the nail of the carbon brush (See Fig. 32) agrees with the contact portion of brush tube. Then push it in with a finger as illustrated in tube. Then push it in with a finger as Fig. 32. Lastly, install the brush cap.

CAUTION

0 |>

Be absolutely sure to insert the nail of the carbon brush into the contact portion of brush tube. (You can insert whichever one of the two nails provided.)

operation can result in the deformed nail of the Caution must be exercised since any error in this early stage. carbon brush and may cause motor trouble at an

Brush cap (2 pcs.)

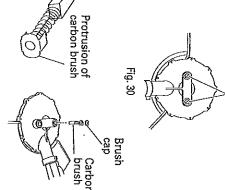


Fig. 31

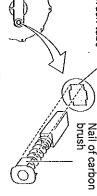


Fig. 32

Ċπ

Check for Dust

- Dust may be removed with a soft cloth or a cloth for they may damage the plastics. Do not use bleach, chlorine, gasoline or thinner, dampened with soapy water.
- တ Disposal of the exhausted battery

₽ WARNING:

your area for recycling options or proper disposal with your local solid waste officials for details in Do not dispose of the exhausted battery. battery must explode if it is incinerated. rechargeable battery. The battery is recyclable, At the end of it's useful life, under various state and product that you have purchased contains a battery into the municipal waste stream. Check ocal laws, it may be illegal to dispose of this

Storage Storing in a piace below 104°F (40°C) and out of the reach of children.

NOTE

stored for a long period (3 months or more). The battery with smaller capacity may not be able to be charged when used, if stored for a long period. Make sure that the battery is fully charged when

authorized replacement parts will be used, a service and repairs must be performed by HITACHI AUTHORIZED SERVICE CENTER, ONL' of wear from normal use. To assure that only All quality gardening appliances will eventually require servicing or replacement of parts because Service and repairs

ဖ Service parts list

₽ CAUTION

Gardening Appliances must be carried out by a Hitachi Authorized Service Center. Repair, modification and inspection of Hitachi

of gardening appliances, the safety regulations observed. and standards prescribed in each country must be maintenance. In the operation and maintenance Service Center when requesting repair or other gardening appliance to the Hitachi Authorized This Parts List will be helpful if presented with the

MODIFICATIONS:

Hitachi Gardening Appliances are constantly being improved and modified to incorporate the latest technological advancements.

Accordingly, some parts may be changed without prior

ACCESSORIES

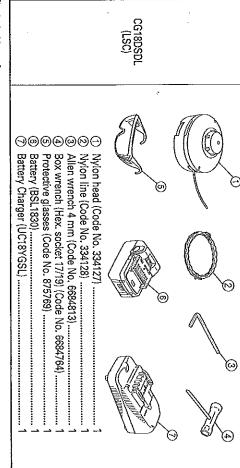
Ð WARNING:

ALWAYS use Only authorized HITACHI replacement parts and accessories. NEVER use replacement parts or accessories which are not intended for use with this gardening appliance. Contact HITACHI if you are not sure whether it is safe to use a particular replacement part or accessory with your gardening appliance.

The use of any other attachment or accessory can be dangerous and could cause injury or mechanical

NOTE: Accessories are subject to change without any obligation on the part of the HITACHI

STANDARD ACCESSORIES



Included items]

The following items are supplied with the product (used for assembly of each part)

- $\Theta\Theta\Theta\Theta\Theta\Theta\Theta$ Cover holder Cover M6 spring washer M6 x 25 hex, socket button bolt 9899 Handle fixture Loop handle Flange ass'y M6 nut M6 x 43 bolt
- D5 tapping screw

OPTIONAL ACCESSORIES.....sold separately

Battery



BSL1830 (Code No. 330067

Use the inspections in the table below if the gardening appliance does not operate normally. If this does not remedy the problem, consult your dealer or the Hitachi Authorized Service Center.

	Symptom	Possible cause	Remedy
Charger	The Charge lamp does not go on.	The power plug is not connected to an AC outlet.	Connect the power plug to an AC outlet.
		The battery is not properly connected to the charger.	Insert the battery so that it is properly seated in the charger.
		The battery or charger electrodes are soiled.	Use a cotton swab or other tool to clean the electrodes.
		The battery is extremely hot.	Allow the battery to properly cool before charging.
	The Charge lamp does not go off after 4 hours of charging.	The battery or charger is faulty.	Disconnect the power plug and consult your dealer or the Hitachi Authorized Service Center.
Gardening appliance	Gardening Does not operate.	The rechargeable battery is depleted.	Charge the rechargeable battery.
		The rechargeable battery has not been properly installed.	Remove the rechargeable battery from the battery compartment in the gardening appliance and check for and remove any foreign matter. Also check the battery
			other foreign matter. Use a cotton swab for cleaning. Make sure that the rechargeable battery is pressed in until it clicks into place.
		The power has not been turned on.	Press the power button on the housing to start the gardening appliance. This gardening appliance comes with an arth.
			power off function. The power is automatically turned off if nobody pulls the lever during a one
			minute period after power on. To turn the gardening appliance on again, press the power button a
			Pressing the power button a second time turns the power off.
		The lock lever was not pressed when the lever was pulled back.	To prevent accidents from incorrect operation, the lock lever must be pressed while the lever is pulled back to start the motor. Hold the hapdle from above and press the lock lever while pulling the handle.

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	Strong vibrations		Goes on, but soon stops.		appliance	Symptom
attached to the main pipe. The cover is not been properly attached to the main pipe.	perly	The rechargeable battery is overheated.	The rechargeable battery power is low.	appliance is overloaded.	large volumes of grass that are caught between the cover and the mylon head the grassing	The gardening appliance mills in
Secure properly.	Secure properly.	Stop using the rechargeable battery, remove it from the gardening appliance and let it cool in a well-ventilated location not exposed to sunlight.	Charge the rechargeable battery.	an excessive load. Turn off the gardening appliance and remove the cause of the overload. Press the power button once again to continue operation.	protects the rechargeable battery by turning off the motor when the mardaning appliance is exposed to	This is the effect of a function that

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