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User manual



Cordless Blower-Vacuum

MODEL NUMBER:
SERIAL NUMBER:

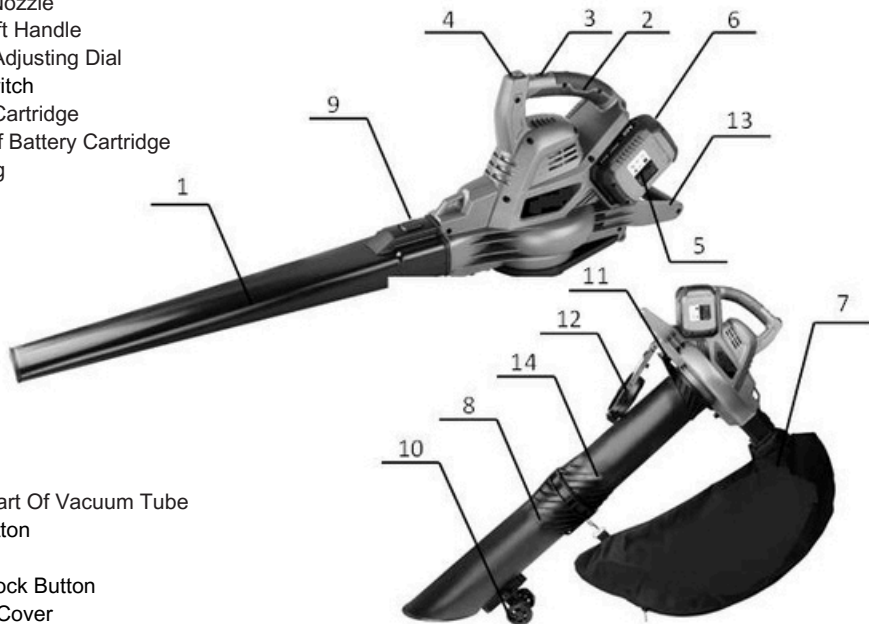
☐ CEDBV200LIX2

Model number and serial number should be on nameplate.
You should write them down and store in a safe place.



IDENTIFICATION

1. Blower Nozzle
2. Main Soft Handle
3. Speed Adjusting Dial
4. Slide Switch
5. Battery Cartridge
6. Button of Battery Cartridge
7. Dust Bag



8. Lower Part Of Vacuum Tube
9. Lock Button
10. Roller
11. Slide Lock Button
12. Safety Cover
13. Auxiliary handle
14. Upper Part Of Vacuum Tube

SPECIFICATIONS

Model:		CEDBV200LIX2
Capacities	Air volume	220m ³ /h
	Air speed (max.)	200 Km/h
No load speed		8,000~14,000/min
Speed Setting		6
Dust Collection Bag Volume		35L
Crushing Rate		9:1
Rated voltage		D.C. 2x20 V
Dimension (L×W×H Bare Tool with accessory)	Blower	930mmx480mmx210mm
	Vacuum	1230mmx480mmx210mm
Net weight (Bare Tool without accessory)		2.58kg

- Due to our continuing program of research and development, the specifications herein are subject to change without notice.
- Specifications may differ from country to country.
- The weight may differ depending on the attachment(s), including the battery cartridge.

Applicable battery cartridge and charger








battery cartridge	CEDLi-Ion 2Ah, CEDLi-Ion 4Ah, CEDLi-Ion 6Ah
battery charger	CEDFCH2.4, CEDDCH3.0, CEDFCH3.5

- Some of the battery cartridges and chargers listed above may not be available depending on your region of residence.

⚠ WARNING: Only use the battery cartridges and chargers listed above. Use of any other battery cartridges and chargers may cause injury and/or fire.

Symbols

The followings show the symbols which may be used for the equipment. Be sure that you understand their meaning before use.

	Take particular care and attention.
	Read instruction manual.
	Keep hands away from rotating parts.
	Long hair may cause entanglement accident.
	Keep bystanders away.
	Wear eye and ear protection.
	Do not expose to moisture.



Only for EU countries
Do not dispose of electric equipment or battery pack together with household waste material! In observance of the European Directives, on Waste Electric and Electronic Equipment and Batteries and Accumulators and Waste Batteries and Accumulators and their implementation in accordance with national laws, electric equipment and batteries and battery pack(s) that have reached the end of their life must be collected separately and returned to an environmentally compatible recycling facility.

⚠ WARNING: Be sure to identify safety measures to protect the operator that are based on an estimation of exposure in the actual conditions of use (taking account of all parts of the operating cycle such as the times when the tool is switched off and when it is running idle in addition to the trigger time).

Vibration

The vibration total value (tri-axial vector sum) determined according to EN50636-2-100:

Work mode: operation without load
Vibration emission (a) : 2.5 m/s² less
Uncertainty (K) : 1.5 m/s²

The vibration total value (tri-axial vector sum) determined according to EN50636-2-100:

NOTE: The declared vibration total value(s) has been measured in accordance with a standard test method and may be used for comparing one tool with another.

NOTE: The declared vibration total value(s) may also be used in a preliminary assessment of exposure.

⚠ WARNING: The vibration emission during actual use of the power tool can differ from the declared value(s) depending on the ways in which the tool is used especially what kind of workpiece is processed.

⚠ WARNING: Be sure to identify safety measures to protect the operator that are based on an estimation of exposure in the actual conditions of use (taking account of all parts of the operating cycle such as the times when the tool is switched off and when it is running idle in addition to the trigger time).

Intended use

The product is intended for domestic use, for blowing and collecting leaves and garden waste at ground level such as grass clippings in the area around the garden and house. The product is not intended for use as a shredder. It can be dangerous to operate any product in a manner other than as specifically intended. Misuse can result in personal injury.

Noise

The typical A-weighted noise level determined according to EN50636-2-100:

Sound pressure level (LpA) : 97 dB(A)
Sound power level (LWA) : 106 dB (A)
Uncertainty (K) : 3 dB(A)

The typical A-weighted noise level determined according to EN50636-2-100:

NOTE: The declared noise emission value(s) has been measured in accordance with a standard test method and may be used for comparing one tool with another.

NOTE: The declared noise emission value(s) may also be used in a preliminary assessment of exposure.

⚠ WARNING: Wear ear protection.

⚠ WARNING: The noise emission during actual use of the power tool can differ from the declared value(s) depending on the ways in which the tool is used especially what kind of workpiece is processed.

SAFETY WARNINGS

General power tool safety warnings



tions, illustrations and specifications provided with this power tool. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

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

Work area safety

1. **Keep work area clean and well lit.** Cluttered or dark areas invite accidents.
2. **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.
3. **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

Electrical safety

1. **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.
2. **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.
3. **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
4. **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 or moving parts.** Damaged or entangled cords increase the risk of electric shock.
5. **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.
6. **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.
7. **Power tools can produce electromagnetic fields (EMF) that are not harmful to the user, however, users of pacemakers and other similar medical devices should contact the maker of their device and/or doctor for advice before operating this power tool.**

Personal safety

1. **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.
2. **Use personal protective equipment. Always wear eye protection. Wear safety shoes, hand protection, hearing protection used for appropriate conditions will reduce personal injuries.**

3. **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.
4. **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.
5. **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
6. **Dress properly. Do not wear loose clothing or jewellery. Keep your hair and clothing away from moving parts.** Loose clothes, jewellery or long hair can be caught in moving parts.
7. **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.
8. **Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles.** A careless action can cause severe injury within a fraction of a second.
9. **Always wear protective goggles to protect your eyes from injury when using power tools.** The goggles must comply with ANSI Z87.1 in the USA, EN 166 in Europe, or AS/NZS 1336 in Australia/New Zealand. In Australia/New Zealand, it is legally required to wear a face shield to protect your face, too.



It is an employer's responsibility to enforce the use of appropriate safety protective equipments by the tool operators and by other persons in the immediate working area.

Power tool use and care

1. **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.
2. **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.
3. **Disconnect the plug from the power source and/or remove the battery pack, if detachable, from the power tool before making any adjustments, changing accessories, or storing power tools.** Such preventive safety measures reduce the risk of starting the power tool accidentally.

4. **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.
5. **Maintain power tools and accessories. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use.** Many accidents are caused by poorly maintained power tools.
6. **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
7. **Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into 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.
8. **Keep handles and grasping surfaces dry, clean and free from oil and grease.** Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.
9. **When using the tool, do not wear cloth work gloves which may be entangled.** The entanglement of cloth work gloves in the moving parts may result in personal injury.

Battery tool use and care

1. **Recharge only with the charger specified by the manufacturer.** one type of battery pack may not be suitable for when used with another battery pack.
2. **Use power tools only with specifically designed battery packs.** Use of any other battery packs may create a risk of injury and fire.
3. **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.
4. **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.
5. **Do not use a battery pack or tool that is damaged or modified.** Damaged or modified batteries may exhibit unpredictable behaviour resulting in fire, explosion or risk of injury.
6. **Do not expose a battery pack or tool to fire or excessive temperature.** Exposure to fire or temperature above 130 °C may cause explosion.
7. **Follow all charging instructions and do not charge the battery pack or tool outside the temperature range specified in the instructions.** Charging improperly or at temperatures outside the specified range may damage the battery and increase the risk of fire.

Service

1. **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.
2. **Never service damaged battery packs.** Service of battery packs should only be performed by the manufacturer or authorized service providers.
3. **Follow instruction for lubricating and changing accessories.**

Cordless Blower – Vacuum Safety Instructions

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.

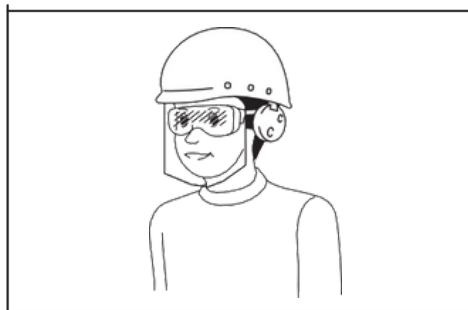
Save all warnings and instructions for future reference.

Training

1. **Read the instructions carefully. Be familiar with the controls and the correct use of the machine.**
2. **Never allow children, persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge or people unfamiliar with these instructions to use the machine. Local regulations may restrict the age of the operator.**
3. **Never operate the machine while people, especially children, or pets are nearby.**
4. **Keep in mind that the operator or user is responsible for accidents or hazards occurring to other people or their property.**

Preparation

1. **Always wear substantial footwear and long trousers while operating the machine.**
2. **Do not wear loose clothing or jewellery that can be drawn into the air inlet. Keep long hair away from the air inlets.**
3. **Always wear protective goggles to protect your eyes from injury when using power tools. The goggles must comply with ANSI Z87.1 in the USA, EN 166 in Europe, or AS/NZS 1336 in Australia/New Zealand. In Australia/New Zealand, it is legally required to wear a face shield to protect your face, too.**



It is an employer's responsibility to enforce the use of appropriate safety protective equipments by the tool operators and by other persons in the immediate working area.

4. **To prevent dust irritation the wearing of a face mask is recommended.**
- **While operating the machine, always wear non-slip and protective footwear.** Non-skid, closed-toed safety boots and shoes will reduce the risk of injury.
5. **Use personal protective equipment. Always wear eye protection.** Protective equipment such as a dust mask, non-skid safety shoes, hard hat or hearing protection used for appropriate conditions will reduce personal injuries.
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Operation

1. Switch off the machine and remove the battery cartridge and make sure that all moving parts have come to a complete stop
 - whenever you leave the machine.
 - before clearing blockages.
 - before checking, cleaning or working on the machine.
 - if the machine starts to vibrate abnormally.
 - whenever you convert the machine from blower to vacuum, and vice versa.
2. Operate the machine only in daylight or in good artificial light.
3. Do not overreach and keep proper balance and footing at all times.
4. Always be sure of your footing on slopes.
5. Walk, never run.
6. Keep all cooling air inlets clear of debris.
7. Never blow debris in the direction of bystanders.
8. Operate the machine in a recommended position and on a firm surface.
9. Do not operate the machine at high places.
10. Never point the nozzle at anyone in the vicinity when using the machine.
11. Never block suction inlet and/or blower outlet.
 - Be careful not to block suction inlet or blower out-let with dust or dirt when operating in dusty area. Do not use nozzles other than the nozzles provided by Liangye.
 - Do not use the blower to inflate balls, rubber boat or the similar.
12. Do not operate the machine near open window, etc.
13. Operating the machine only at reasonable hours is recommended - not early in the morning or late at night when people might be disturbed.
14. Using rakes and brooms to loosen debris before blowing is recommended.
15. If the machine strikes any foreign objects or should start making any unusual noise or vibration, immediately switch off the machine to stop it. Remove the battery cartridge from the machine and inspect the machine for damage before restarting and operating the machine. If the machine is damaged, ask Cedrus Authorized Service Centers for repair.
16. Do not insert fingers or other objects into suction inlet or blower outlet.
17. Prevent unintentional starting. Ensure the switch is in the off-position before inserting battery cartridge, picking up or carrying the machine. Carrying the machine with your finger on the switch or energizing the machine that has the switch on invites accidents.
18. Never blow or vacuum dangerous materials, such as nails, fragments of glass, or blades. Do not operate the machine near flammable materials.
19. Avoid operating the machine for a long time in low temperature environment.
- 20.

Maintenance and storage

1. Keep all nuts, bolts and screws tight to be sure the machine is in safe working condition.
2. If the parts are worn or damaged, replace them with parts provided by Cedrus.

3. Store the machine in a dry place out of the reach of children.
4. When you stop the machine for inspection, servicing, storage, or changing accessory, switch off the machine and make sure that all moving parts come to a complete stop, and remove the battery cartridge. Cool down the machine before making any work on the machine. Maintain the machine with care and keep it clean.
5. Always cool down the machine before storing.
6. Do not expose the machine to rain. Store the machine indoors.
7. When you lift the machine, be sure to bend your knees and be careful not to hurt your back.

Battery tool use and care

1. 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.
2. Use power tools only with specifically designated battery packs. Use of any other battery packs may create a risk of injury and fire.
3. 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.
4. 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.
5. Do not use a battery pack or tool that is damaged or modified. Damaged or modified batteries may exhibit unpredictable behaviour resulting in fire, explosion or risk of injury.
6. Do not expose a battery pack or tool to fire or excessive temperature. Exposure to fire or temperature above 130 °C may cause explosion.
7. Follow all charging instructions and do not charge the battery pack or tool outside the temperature range specified in the instructions. Charging improperly or at temperatures outside the specified range may damage the battery and increase the risk of fire.

Electrical and battery safety

1. Do not dispose of the battery(ies) in a fire. The cell may explode. Check with local codes for possible special disposal instructions.
2. Do not open or mutilate the battery(ies). Released electrolyte is corrosive and may cause damage to the eyes or skin. It may be toxic if swallowed.
3. Do not charge battery in rain, or in wet locations.
4. Do not charge the battery outdoors.
5. Do not handle charger, including charger plug, and charger terminals with wet hands.
6. Avoid dangerous environment. Don't use the tool in dump or wet locations or expose it to rain. Water entering the tool will increase the risk of electric shock.

Service

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

SAVE THESE INSTRUCTIONS.

⚠ WARNING: DO NOT let comfort or familiarity with product (gained from repeated use) replace strict adherence to safety rules for the subject product. **MISUSE** or failure to follow the safety rules stated in this instruction manual may cause serious personal injury.

Important safety instructions for battery cartridge

1. Before using battery cartridge, read all instructions and cautionary markings on (1) battery charger, (2) battery, and (3) product using battery.
2. Do not disassemble battery cartridge.
3. If operating time has become excessively shorter, stop operating immediately. It may result in a risk of overheating, possible burns and even an explosion.
4. If electrolyte gets into your eyes, rinse them out with clear water and seek medical attention right away. It may result in loss of your eyesight.
5. Do not short the battery cartridge:
 - (1) Do not touch the terminals with any conductive material.
 - (2) Avoid storing battery cartridge in a container with other metal objects such as nails, coins, etc.
 - (3) Do not expose battery cartridge to water or rain.
6. Do not store the tool and battery cartridge in locations where the temperature may reach or exceed 50 °C (122 °F).
7. Do not incinerate the battery cartridge even if it is severely damaged or is completely worn out. The battery cartridge can explode in a fire.
8. Be careful not to drop or strike battery.
9. Do not use a damaged battery.
10. The contained lithium-ion batteries are subject to the Dangerous Goods Legislation

requirements. For commercial transports e.g. by third parties, forwarding agents, special requirement on pack-aging and labeling must be observed.

For preparation of the item being shipped, consulting an expert for hazardous material is required. Please also observe possibly more detailed national regulations.

Tape or mask off open contacts and pack up the battery in such a manner that it cannot move around in the packaging.

11. When disposing the battery cartridge, remove it from the tool and dispose of it in a safe place. Follow your local regulations relating to disposal of battery.

12. Use the batteries only with the products specified by Cedrus. Installing the batteries to non-compliant products may result in a fire, excessive heat, explosion, or leak of electrolyte.
13. If the tool is not used for a long period of time, the battery must be removed from the tool.

SAVE THESE INSTRUCTIONS.

⚠ CAUTION: Only use genuine Cedrus batteries. Use of non-genuine Cedrus batteries, or batteries that have been altered, may result in the battery bursting causing fires, personal injury and damage. It will also void the Cedrus warranty for the Cedrus tool and charger.

Tips for maintaining maximum battery life

1. Charge the battery cartridge before completely discharged. Always stop tool operation and charge the battery cartridge when you notice less tool power.
2. Never recharge a fully charged battery cartridge. Overcharging shortens the battery service life.
3. Charge the battery cartridge with room temperature at 5 °C - 45 °C. Let a hot battery cartridge cool down before charging it.
4. Charge the battery cartridge if you do not use it for a long period (more than six months).

ASSEMBLY

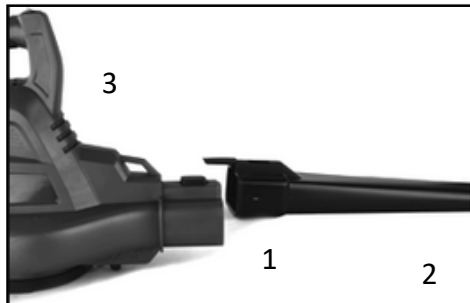
⚠ CAUTION: Always be sure that the machine is switched off and the battery cartridge is removed before carrying out any work on the machine.

Assembly for blowing

⚠ CAUTION: Always ensure that the nozzle is locked in place firmly. Otherwise the nozzle may come off during operation and may cause an personal injury.

Installing or removing the blower nozzle

To install the blower nozzle, slide the blower nozzle and then push it in onto the blower outlet of the tool directly until the lock button go back to the original position.





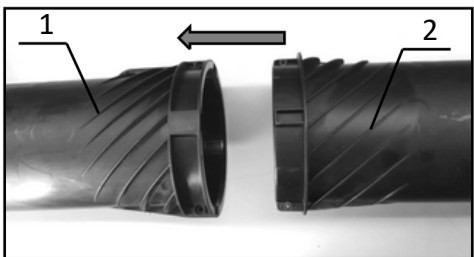
- 1. Lock Button 2. Blower Nozzle 3. Blower outlet
- To remove the nozzle, perform the installation procedure in reverse.

Assembly for vacuuming

Assembling the vacuum tube

To assemble the vacuum tube , perform as follows:

- 1.Align the protrusions on the upper part of vacuum tube with the sliding grooves on the lower part of vacuum tube and then slide it onto the lower part of vacuum tube .



- 1. Lower part of vacuum tube
2. Upper part of vacuum tube



- 1. Star bolt

- 2.Secure the vacuum tube with two star bolt by turning the bolt clockwise.

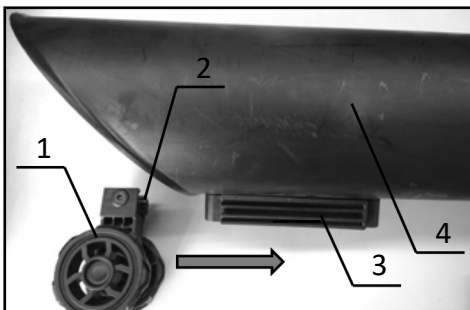
To disassemble the vacuum tube , perform the installation procedure in reverse.

CAUTION: Always make sure to secure the vacuum tube firmly. Otherwise it may cause an accidental personal injury

Installing or removing the roller

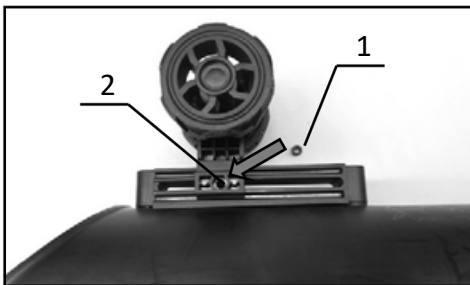
To install the roller onto the vacuum tube , perform as follows:

- 1.Align the protrusions on the vacuum tube with the sliding grooves on the roller and then slide the roller onto the vacuum tube with the position your desired.



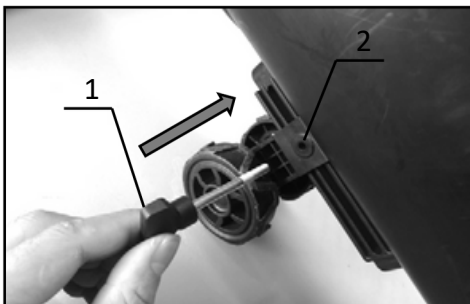
- 1. Roller 2. Sliding groove 3. protrusions on the vacuum tube 4. Vacuum tube

2. Put the nut onto the fastening hole, press and hold it.



- 1. Nut 2. Fastening hole

- 3.Then insert the clamping screw into the fastening hole from the other side and secure it by turning it clockwise.





- 1. Clamping screw 2. Fastening hole

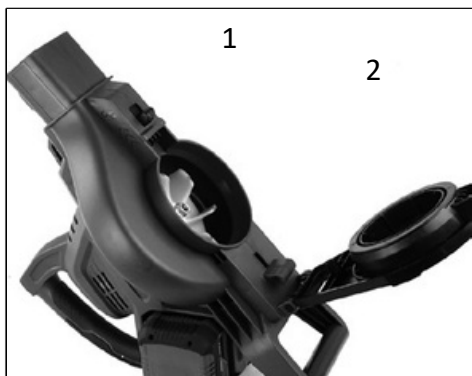
To remove the roller, perform the installation procedure in reverse.

CAUTION: Always secure the roller firmly. Otherwise the roller may come off during operation and may cause a personal injury.

Installing or removing the whole assembled vacuum tube

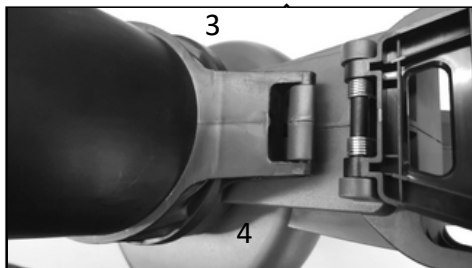
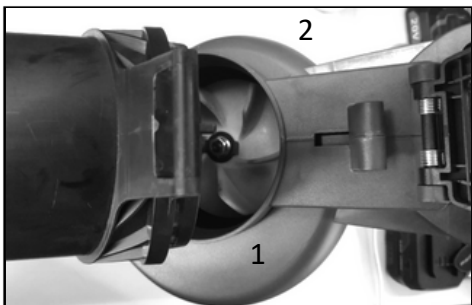
To install the whole assembled vacuum tube onto the tool, perform as follows:

1. Pull the slide lock button forward and keep the safety cover open.



- 1. Slide lock button 2. Safety Cover

2. Attach the whole assembled vacuum tube by hooking it directly onto the tool body.



- 1. Rod 2. Hook 3. Whole assembled vacuum tube 4. Tool body

3. Release the safety cover. Pull the slide lock button forward until the vacuum tube fully inserted into tool. Then release the button to lock on again.



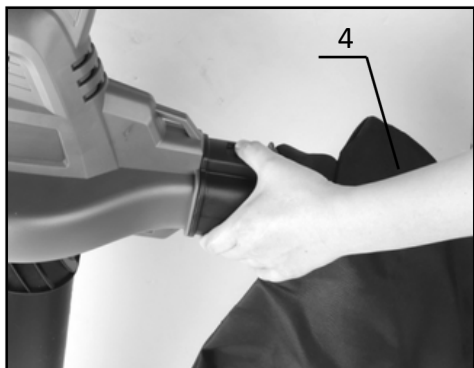
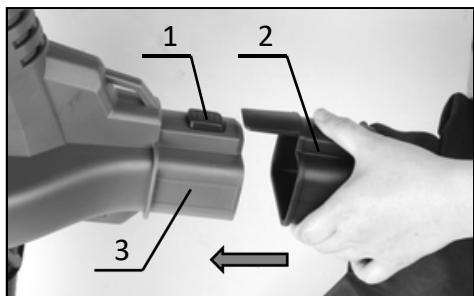
To remove the whole assembled vacuum tube, perform the installation procedure in reverse.

CAUTION: Always ensure that the vacuum tube is locked in place firmly. Otherwise the vacuum tube may come off during operation and may cause a personal injury.

Installing or removing the dust bag

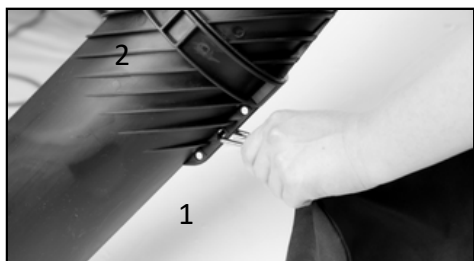
To install the dust bag onto the tool

1. slide the dust bag nozzle and then push it in onto the blower outlet of the tool directly until the lock button go back to the original position.



► 1. Lock Button 2. Dust Bag Nozzle 3. Blower outlet 4. Dust bag

2. Hook the other side of the dust bag onto the hole on the vacuum nozzle.



► 1. Hook 2. Hole

To remove the dust bag, perform the installation procedure in reverse.

Note: Always ensure that the dust bag nozzle is locked and hooked in place firmly.

Installing or removing battery cartridge

CAUTION: Always switch off the machine before installing or removing of the battery cartridge.

CAUTION: Hold the machine and the battery cartridge firmly when installing or removing battery cartridge. Failure to hold the machine and the battery cartridge firmly may cause them to slip off your hands and result in damage to the machine and battery cartridge and a personal injury.

CAUTION: Always install the battery cartridge fully. If not, it may accidentally fall out of the machine, causing injury to you or someone around you.

CAUTION: Do not install the battery cartridge forcibly. If the cartridge does not slide in easily, it is not being inserted correctly.



► 1. Button 2. Battery cartridge

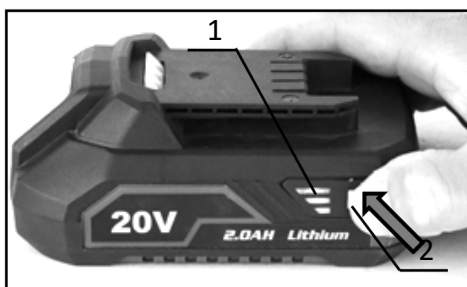
To remove the battery cartridge, slide it from the tool while sliding the button on the front of the cartridge.

To install the battery cartridge, align the tongue on the battery cartridge with the groove in the housing and slip it into place. Insert it all the way until it locks in place with a little click.

NOTE: The tool does not work with only one battery cartridge.

NOTE: Pay attention to the position of your fingers when installing the battery. The button will be depressed unintentionally.

Indicating the remaining battery capacity






► 1. Indicator lamps 2. Check button

FUNCTIONAL DESCRIPTION

CAUTION: Always be sure that the machine is switched off and the battery cartridge is removed before adjusting or checking function on the machine.

Press the check button on the battery cartridge to indicate the remaining battery capacity. Below for detail remaining capacity information.

Indicator lamps		Remaining capacity
Lighted	Off	
		75% to 100%
		25% to 50%
		10% to 25%

NOTE: Depending on the conditions of use and the ambient temperature, the indication may differ slightly from the actual capacity.

Machine/battery protection system

The machine is equipped with a machine/battery protection system. This system automatically cuts off power to the motor to extend machine and battery life. The machine will automatically stop during operation if the machine or battery is placed under one of the following conditions:

Overload protection

When the machine or battery is operated in a manner that causes it to draw an abnormally high current, the machine automatically stops without any indication. In this situation, turn the machine off and stop the application that caused the machine to become overloaded. Then turn the machine on to restart.

Overheat protection


When the machine or battery is overheated, the machine stops automatically. In this case, let the machine and battery cool before turning the machine on again.

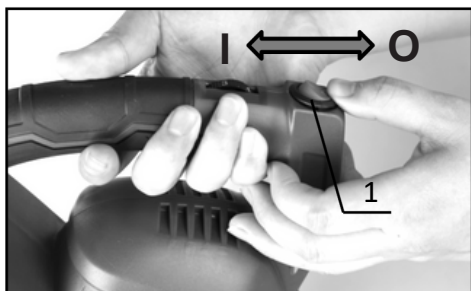
Overdischarge protection

When the battery capacity is not enough, the machine stops automatically. In this case, remove the battery from the machine and charge the battery.

Switch action

WARNING: Before installing the battery

-tridge into the machine, always check to see that the switch trigger actuates properly and returns to the "OFF" position when released.



► 1. Slide Switch

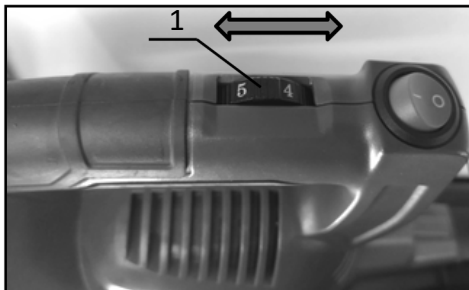
To start the tool, slide the slide switch toward the "I (ON)" position.

To stop the tool, slide the slide switch toward the "O (OFF)" position.

NOTICE: If the machine has been operated continuously until the battery has become empty, rest the machine for at least 15 minutes before operating the machine with a fresh battery.

NOTE: When you start sliding the slide switch, electronic sound may be emitted from the machine, but it does not mean a malfunction of the machine.

Speed adjust



► 1. Speed adjusting dial

The speed can be changed by turning the speed adjusting dial to a given number setting from 1 to 6. Higher speed is obtained when the dial is turned in the direction of number 6. And lower speed is obtained when it is turned in the direction of number 1. Refer to the table for the relationship between the number settings on the dial and the speed.

Number	Speed
5~6	High
3~4	Medium
1~2	Low

NOTE: The dial cannot be turned directly from 1 to 6 or from 6 to 1. Forcing the dial may damage the tool. When changing the dial direction, always turn the dial moving it through each intermediate number.

OPERATION

⚠ CAUTION: Do not place the machine on the ground while it is switched on. Sand or dust may enter from suction inlet and cause a malfunction or personal injury.

Blower operation

⚠ CAUTION: When performing the blower operation, be sure to remove the dust bag and vacuum tube from the machine, and attach the blower nozzle in place for blowing.

Hold the machine firmly with a hand and perform the blowing operation by moving it around slowly. When blowing around building, big stone or vehicle, direct the nozzle away from them. When performing an operation in a corner, start from the corner and then move to wide area.



Vacuuming operation

CAUTION: When performing the vacuuming operation, be sure to attach the dust bag and vacuum tube in place to the machine.

CAUTION: Check the dust bag frequently for wear or deterioration.

CAUTION: Be sure to fasten the fastener of the dust bag before operating the machine.

CAUTION: Always switch off the machine before opening or fastening the fastener of the dust bag.

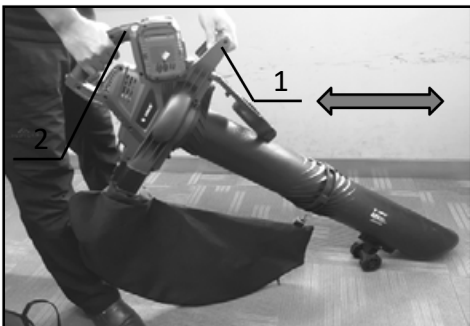
NOTICE: Do not allow wet materials, such as

wet leaves, and foreign materials, such as large wood chips, metals, glass, pebbles, etc., to be sucked into the machine. Otherwise, a malfunction may occur.

NOTICE: Empty the dust bag before it becomes

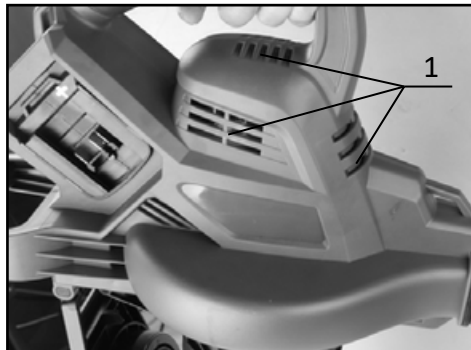
full. Otherwise, a malfunction may occur.

Hold the tool firmly. The tool is provided with both a main soft handle and a front auxiliary handle. Use both to best grasp the tool. While operating the machine, adjust the speed adjust dial so that the suction force is appropriate for the work location and conditions. As shown in the figure, you can use the roller to move the vacuum for easy and efficient working.



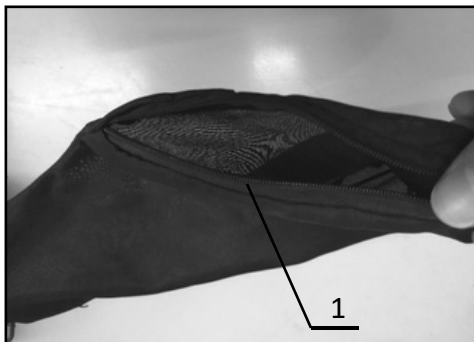
► 1. Auxiliary handle 2. Main Soft Handle

NOTICE: Do not cover vents when working, or it may cause over-heating and damage to the tool.



► 1. Vent

Empty the dust bag before it becomes too full by removing the dust bag from the machine, and then unzip the dust bag to clean.



► 1. Zipper

MAINTENANCE

CAUTION: Always be sure that the machine is switched off and the battery cartridge is removed before attempting to perform inspection or maintenance.

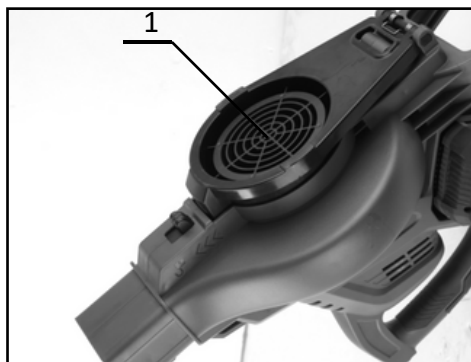
To maintain product SAFETY and RELIABILITY, repairs, any other maintenance or adjustment should be performed by Cedrus Authorized or Factory Service Centers, always using Cedrus replacement parts.

Cleaning the machine

Clean the machine by wiping off dust with a dry cloth or one dipped in soapy water and wrung out.

NOTICE: Never use gasoline, benzine, thinner, alcohol or the like. Discoloration, deformation or cracks may result.

Remove dust or dirt from the suction inlets.



- 1. Suction inlet

OPTIONAL ACCESSORIES

CAUTION: These accessories or attachments are recommended for use with your Cedrus product specified in this manual. The use of any other accessories or attachments might present a risk of injury to persons. Only use accessory or attachment for its stated purpose.

If you need any assistance for more details regarding these accessories, ask your local Cedrus Service Center.

- Blower Nozzle
- Vacuum Tube
- Roller
- Dust bag
- Cedrus genuine battery and charger

NOTE: Some items in the list may be included in the product package as standard accessories. They may differ from country to country.

TROUBLE SHOOTING

Before asking for repairs, conduct your own inspection first. If you find a problem that is not explained in the manual, do not attempt to dismantle the machine. Instead, ask Cedrus Authorized Service Centers, always using Cedrus replacement parts for repairs.

State of abnormality	Probable cause (malfunction)	Remedy
Motor does not run.	Battery cartridge is not installed.	Install the battery cartridge.
	Battery problem (under voltage)	Recharge the battery. If recharging is not effective, replace battery.
	The drive system does not work correctly	Ask your local authorized service center for repair.
Motor stops running after a little use.	Battery's charge level is low.	Recharge the battery. If recharging is not effective, replace battery.
	Overheating.	Stop using the machine to allow it to cool down.
The machine does not reach the maximum speed.	Battery is installed improperly.	Install the battery cartridge as described in this manual.
	Battery power is dropping.	Recharge the battery. If recharging is not effective, replace battery.
	The drive system does not work correctly	Ask your local authorized service center for repair.
⇒ Abnormal vibration: ⇒ stop the machine immediately!	The drive system does not work correctly.	Ask your local authorized service center for repair.
Motor cannot stop: Remove the battery immediately!	Electric or electronic malfunction.	Remove the battery and ask your local authorized service center for repair.