

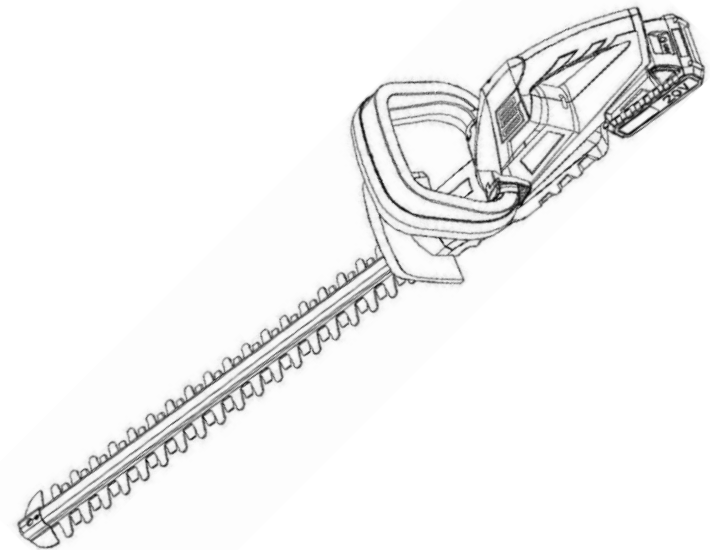
VIVOSUN

CORDLESS HEDGE TRIMMER

ASYTH01

Instruction Manual

DESIGNED BY **VIVOSUN** IN CALIFORNIA
Made in P.R.C



Please read this handbook carefully before using the tool

SAFETY INSTRUCTIONS

---General 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.

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

- This product is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Only use the product in the manner and for the functions described in these instructions.

---Work area safety

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

---Electrical safety

- Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
- Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
- Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.

MAINTENANCE AND CARE

Always remove the battery pack from the machine before carrying out any work on the machine and before cleaning.

The appliance is maintenance-free. If, despite careful production and rigorous quality assurance, damage is found, the appliance may only be repaired by an authorized service workshop for electric tools.

WARRANTY

We guarantee appliance in accordance with statutory/country-specific regulation (proof of purchase by invoice or delivery note).

Damage attributable to normal wear, overload or improper handling will be excluded from the guarantee.

In case of complaint please send the machine, undismantled, to your dealer or the authorized service center for electric tools.

ENVIRONMENTAL PROTECTION

The package, machine and accessories are manufactured from recyclable materials and must be disposed of accordingly. The plastic components of the machine are labeled.

This facilitates categorizing raw materials so that they can be disposed of in an environment-friendly manner.

- When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- It is recommended that appliances should be supplied via a residual current device (RCD) with a tripping current of not more than 30mA.

---Personal safety

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

---Power tool use and care

- **Do not force the power tool.** Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.

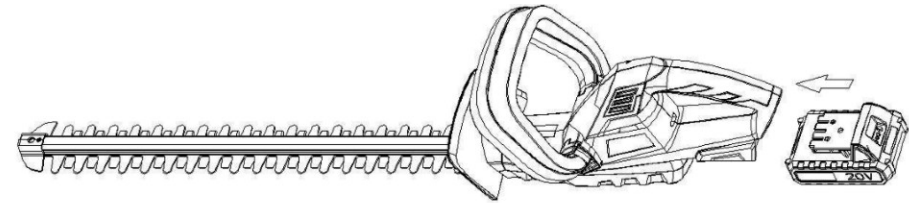
- **Do not use the power tool if the switch does not turn it on and off.** Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- **Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories,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

---Service

Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

CORDLESS HEDGE TRIMMER SAFETY WARNINGS

1. **Keep all parts of the body away from the cutter blade. Do not remove cut material or hold material to be cut when blades are moving. Make sure the product is switched off when clearing jammed material.** A moment of inattention while operating the product may result in serious personal injury.
2. **Carry the product by the handle with the cutter blade stopped. When transporting or storing the product always fit the cutting device cover.** Proper handling of the product will reduce possible personal injury from the cutter blades.
3. **Hold the product by insulated gripping surfaces only, because the cutter blade may contact hidden wiring of its own cord.** Cutter blades contacting a "live" wire may make exposed metal parts of the product "live" and could give the operator an electric shock.



To **turn on the machine**, you should push down Front switch-handle 4 and Back switch-handle 5 at the same time. Release any one of the two switch-handles will make the machine a **sudden stop**, in that case, you will see sparkle from the ventilation slot, do not worry, this is normal phenomenon and will not damage the machine. You will probably notice a burning smell coming from the motor, again do not worry, as this is the electrical brake which always generates a little smoke.

When you finish the work, you can pull out the battery pack, and charging it, cleaning the blade, lubricate the blade after each use to prolong the life span of cutting blade and product. Apply light machine oil along the edge of the cutting blade. Store the machine with the scabbard covered throughout the blade.

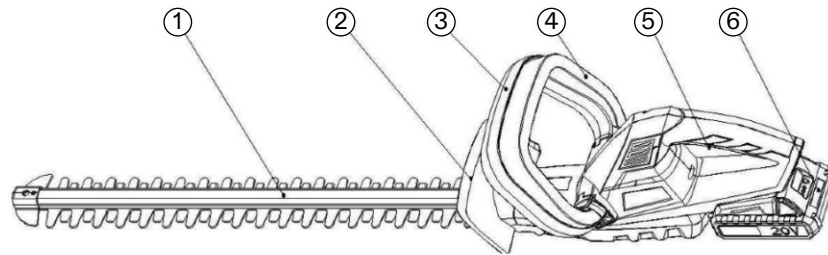
---Change the blade

Check the blade periodically, if damaged, please change immediately. It is difficult to change the blade by yourself, so we advise you to change the blade by an authorized service workshop.

GENERAL INFORMATION

If older hedges need to be cut back a substantial amount, use pruning shears to trim thicker branches to the desired length before going to work with the hedge trimmer. Ensure that the blade does not come into contact with anything that could damage it, such as fencing wire or metal plant supports. Native hard woods should not be cut with a hedge trimmer, as they will damage the blade. The hedge trimmer is designed to cut soft new growth and should only be used to cut such materials.

NAME OF COMPONENTS



1. Blade
2. Protector
3. Locked front handle

4. Front switch-handle
5. Back switch-handle
6. Battery pack

---Scope of delivery

- Hedgetrimmer - Battery pack - Charger - Scabbard

OPERATION INSTRUCTIONS

---Intenduse

The hedge trimmer is designed for cutting and trimming of hedges, bushes and shrubs in domestic gardens.

The maximum cutting capacity must be observed. Do not cut branches exceeding the stated maximum capacity.

The appliance is suitable for the private use in the garden only, not for continuous employment in the commercial use.

The appliance is designed for use by adults. Young people over 16 years old may use the appliance under supervision only.

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, unless they have been given supervision or instruction concerning the use of the appliance by a person responsible for their safety.

Before using the tool, please insert the battery pack to the machine. Always use the correct battery pack.

4. Check the hedge for foreign objects before operation, e.g. wire fences.
5. Hold the product properly, e.g. with both hands if two handles are provided. Loss of control can cause personal injury.

ADDITIONAL SAFETY WARNINGS

IMPORTANT. Read carefully before use. Keep for future reference

---Training

- Read the instructions carefully. Be familiar with the controls and the proper use of the appliance.
- Never allow children to use the product.
- Never allow people unfamiliar with these instructions to use the appliance. Local regulations may restrict the age of the operator.
- Never operate the appliance while people, especially children, or pets are nearby.
- The operator or user is responsible for accidents or hazards occurring to other people or their property.

---Preparation

- Wear safety goggles and ear muffs while operating.
- Always wear substantial footwear and long trousers. Do not operate the equipment when barefoot or wearing open sandals.
- Always wear suitable working clothes during working, which allow freedom of movement.
- Never operate the appliance which is damaged, incomplete or changed without approval of the manufacturer.

---Operation

- Disconnect the battery from the product: whenever you leave the product, before clearing a blockage, before checking, cleaning or working on the product, if the product starts to vibrate abnormally.

- Operate the product only in daylight or in good artificial light.
- Do not overreach and keep your balance at all times.
- Always be sure of your footing on slopes.
- Walk, never run.
- Keep all ventilation openings clear of debris.
- Never blow debris in the direction of bystanders.

---Maintenance and storage

1. Keep all nuts, bolts and screws tight to be sure the product is in safe working condition.
2. Check the collection bag frequently for wear or deterioration.
3. Replace worn or damaged parts.
4. Store the product only in a dry place.
5. Use only spare parts and accessories approved by the manufacturer.

---Residual risks



Even if you are operating this product in accordance with the provisions, residual risks will always still remain. The following dangers can arise in connection with the structure and design of this product.

1. Health defects resulting from vibration emission if the product is being used over longer period of time or not adequately managed and properly maintained.
2. Injuries and damage to property to due to broken accessories or hidden objects that are suddenly dashed.
3. Injuries and damage to property to due to thrown and fallen objects.

WARNING! This product produces an electromagnetic field during operation! This field may under some circumstances interfere with active or passive medical implants! To reduce the risk of serious or fatal injury, we recommend persons with medical implants to consult their physician and the medical implant manufacturer before operating this product!

---Important Charging Notes

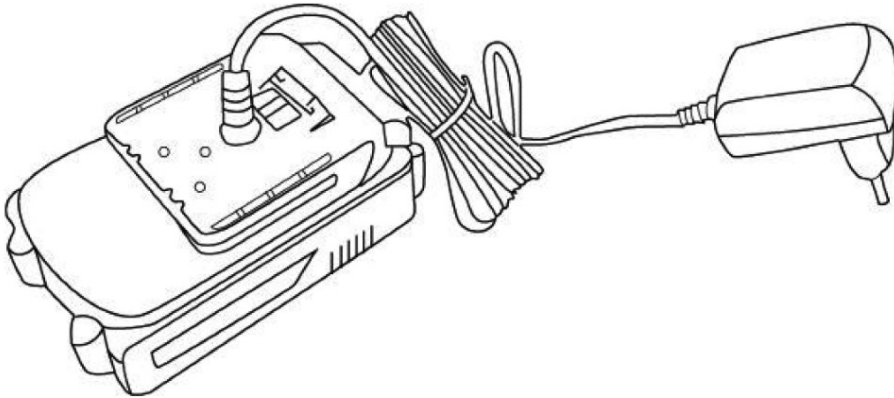
1. Your tool was sent from the factory in an uncharged condition. Before attempting to use it, it must be charged.
2. **CAUTION:** To reduce the risk of damage to the batteries, NEVER charge them in an air temperature below 40°F (4.5°C) or above 105°F (40.5°C). Also, NEVER charge them if the battery temperature is below 40°F (4.5°C) or above 105°F (40.5°C). Longest life and best performance occurs when batteries are charged with an air temperature of approximately 75°F (24°C). **NOTE:** The tool will not charge if the tool temperature is below approximately 32°F (0°C) or above 113°F (45°C).
3. While charging, the charger may hum and become warm to touch. This is a normal phenomenon and does not indicate a problem.
4. If the batteries do not charge properly- (1) Check current at receptacle by plugging in a lamp or other appliance. (2) Check to see if receptacle is connected to a light switch which turns power off when you turn out the lights. (3) Move charger and tool to a surrounding air temperature of 40°F (4.5°C) to 105°F (+40.5°C). (4) If the receptacle and temperature are OK, and you do not get proper charging, take or send the tool and charger to your local service center. See Tools Electric in yellow pages.
5. The tool should be recharged when it fails to produce sufficient power on jobs which were easily done previously. Battery life may be greatly diminished if batteries are discharged deeply. **DO NOT CONTINUE** using product with its batteries in a depleted condition. Recharge discharged batteries promptly.
6. To maximize battery life:
 - a. Do not fully discharge batteries.
 - b. Fully recharge batteries after each use.
 - c. Store tool in a location where the surrounding air temperature is approximately 40°F-75°F (4.5°C- 24°C).
 - d. Disconnect charger from tool after charge is complete. **WARNING:** Fire Hazard. When disconnecting the charger from the tool, be sure to unplug the charger from the outlet first, then disconnect the charger cord from the tool.

	Wear safety shoes for preventing slipping.
	The sound power level indicates by L _{WA} in dB.

CHARGING PROCEDURE

IMPORTANT: The battery pack is not fully charged at the factory. Before attempting to charge them, thoroughly read all of the safety instructions.

1. To assure that the charger you use are applicable to the battery pack.
2. Plug the charger plug into the charging hole of the battery pack.
3. Plug the charger into any suitable standard outlet.
4. Let the battery pack charge initially for the green light is twinkled. If the power lights are all lighting, the battery pack is fully charged.



Recharge discharged batteries as soon as possible after use or battery life may be greatly diminished. For longest battery life, do not discharge batteries fully.

It is recommended that the batteries be recharged after each use.

WARNING: Fire Hazard. When unplug the output plug from the charging hole, be sure to unplug the charger from the outlet first, then disconnect the charger output plug from the charging hole.

---Vibration and noise reduction

To reduce the impact of noise and vibration emission, limit the time of operation, use low-vibration and low-noise operating modes as well as wear personal protective equipment.

---Emergency

Familiarise yourself with the use of this product by means of this instruction manual. Memorise the safety directions and follow them to the letter. This will help to prevent risks and hazards.

1. Always be alert when using this product, so that you can recognize and handle risks early. Fast intervention can prevent serious injury and damage to property.
2. Stop the motor and disconnect the battery from the product if there is any malfunction. Have the product checked by a qualified professional and repaired, if necessary, before you put it into operation again.

SAFETY WARNINGS AND INSTRUCTIONS: BATTERIES

- Do not disassemble or open, drop (mechanical abuse), crush, bend or deform, puncture, or shred.
- Do not modify or remanufacture, attempt to insert foreign objects into the battery, immerse or expose to water or other liquids, or expose to fire, excessive heat including soldering irons, or put in microwave oven.
- Only use the battery/tool with a charging system specified by the manufacturer/-supplier.
- Do not short-circuit a battery or allow metallic or conductive objects to contact both battery terminals simultaneously.
- Dispose of used batteries promptly according to the manufacturer/supplier's instructions.
- Improper battery/tool use may result in a fire, explosion, or other hazard.
- Battery/tool usage by children should be supervised.

SAFETY WARNINGS AND INSTRUCTIONS: CHARGING

1. This manual contains important safety and operating instructions.
2. Before using battery charger, read all instructions and cautionary warnings on battery charger and product using battery. **CAUTION:** To reduce the risk of injury, use this charger only with this product. Batteries in other products may burst causing personal injury or damage.

3. Do not expose charger to rain or snow.
4. Use of an attachment not recommended may result in a risk of fire, electric shock, or injury to persons.
5. To reduce risk of damage to electric plug and cord, pull by plug rather than cord when disconnecting charger.
6. Make sure cord is located so that it will not be stepped on, tripped over, or otherwise subjected to damage or stress.
7. An extension cord should not be used unless absolutely necessary. Use of improper extension cord could result in a risk of fire, electric shock or electrocution. An extension cord must have adequate wire size (AWG or American Wire Gauge) for safety, and to prevent loss of power and overheating. The smaller the gauge number of the wire, the greater the capacity of the cable; that is, 16 gauge has more capacity than 18 gauge. When using more than one extension to make up the total length, be sure each extension contains at least the minimum wire size.

**CHART FOR MINIMUM WIRE SIZE (AWG) OF EXTENSION CORDS
NAMEPLATE RATING AMPS-0- 10.0**

Total Extension Cord Length (ft)	0-25 (0-7.6m)	26-50 (7.6-15.2m)	51-100 (15.2-30.4m)	101-150 (30.4-45.7m)
Wire Gauge	18	16	16	14









8. Use only the supplied charger when charging your tool. The use of any other charger could damage the tool or create a hazardous condition.
9. Use only one charger when charging.
10. Do not attempt to open the charger. There are no customer serviceable parts inside. Return to any authorized Black & Decker service center.
11. DO NOT incinerate the tool or batteries even if they are severely damaged or completely worn out. The batteries can explode in a fire. Toxic fumes and materials are created when lithium ion battery packs are burned.
12. Do not charge or use battery in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Inserting or removing the battery from the charger may ignite the dust or fumes.
13. If battery contents come into contact with the skin, immediately wash area with mild soap and water. If battery liquid gets into the eye, rinse water over the open eye for three minutes or until irritation ceases. If medical attention is needed, the battery electrolyte is composed of a mixture of liquid organic carbonates and lithium salts.

WARNING: Burn hazard. Battery liquid may be flammable if exposed to spark or flame.

PRODUCT DATA

Model no.	ASYHT01
Voltage	DC20V
No load speed	1400 min ⁻¹
Blade length	550mm
Cutting capacity	φ14mm
Weight (except accessories)	2.4kg
Noise (tested according to EN50144)	LP: 83.0 dB(A) Lw: 97.0 dB(A)
Vibration	a _{hw} : 4.2m/s ²

SYMBOL EXPLANATION

	Read the instruction manual completely and carefully before using the power tool.
	This marking indicates that this product should not be disposed of with other household wastes. Follow the disposal instructions within this instruction manual.
	With this symbol the manufacturer confirms that this power tool is in accordance with applicable European directives.
	Do not expose to rain.
	Be careful!
	Wear personal protective equipment. Always wear safety glasses or a face shield, hearing protection and safety helmet.
	Sharp blade can cut limbs.
	Wear gloves for cutting protection.