CORDLESS SABRE SAW 18V

11758

INSTRUCTION MANUAL

DESCRIPTION OF THE SYMBOLS

 Read instructions carefully before any use

 Complies with relevant European regulations

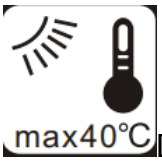
The crossed-out wheeled bin symbol indicates that the item should be disposed of separately from household waste. The item should be handed in for recycling in accordance with local environmental regulations for waste disposal.

By separating a marked item from household waste, you will help reduce the volume of waste sent to incinerators or land-fill and minimize any potential negative impact on human health and the environment.

On battery

 Do not expose the battery to water

 Do not expose the battery to fire or incinerate



Do not expose the battery to high temperatures (above 40℃)

On charger

 Class II machine – Double insulation – You don’t need any earthed plug.

 Use this device indoors only.

GENERAL POWER TOOL SAFETY WARNINGS

WARNING Read all safety warnings, instruction, 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.

1) Work area safety

a) **Keep work area clean and well lit.** Cluttered or dark areas invite accidents.

b) **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.

c) **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

2) Electrical safety

a) **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.

b) **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.

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

d) **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.

e) **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.

f) **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.

3) Personal safety

a) **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.

b) **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.

c) **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.

d) **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.

e) **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.

f) **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.

g) **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.

h) **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.

4) Power tool use and care

a) **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.

b) **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.

c) **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.

d) **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.

e) **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.

f) **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.

g) **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.

h) **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.

5) Battery tool use and care

a) **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.

b) **Use power tools only with specifically designated battery packs.** Use of any other battery packs may create a risk of injury and fire.

c) **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.

d) **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.

e) **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.

f) **Do not expose a battery pack or tool to fire or excessive temperature.** Exposure to fire or temperature above 130 °C may cause explosion.

g) **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.

6) Service

a) **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.

b) **Never service damaged battery packs.** Service of battery packs should only be performed by the manufacturer or authorized service providers.

Special warning for reciprocating saw

Hold power tool by insulated gripping surfaces, when performing an operation where the cutting accessory may contact hidden wiring. Cutting accessory contacting a “live” wire may make exposed metal parts of the power tool “live” and could give the operator an electric shock.
Keep hands away from the sawing range. Do not reach under the workpiece. Contact with the saw blade can lead to injuries.
Apply the machine to the workpiece only when switched on. Otherwise there is danger of kickback when the cutting tool jams in the workpiece.
When sawing, the adjustable footplate 2 must always faces against the workpiece. The saw blade can become wedged and lead to loss of control over the machine.
When the cut is completed, switch off the machine and then pull the saw blade out of the cut only after it has come to a standstill. In this manner you can avoid kickback and can place down the machine securely.
Use only undamaged saw blades that are in perfect condition. Bent or dull saw blades can break, negatively influence the cut, or lead to kickback.
Do not brake the saw blade to a stop by applying side pressure after switching off. The saw blade can be damaged, break or cause kickback.
Clamp material well. Do not support the workpiece with your hand or foot. Do not touch objects or the floor with the the saw running. Danger of kickback.
Use appropriate detectors to determine if utility lines are hidden in the work area or call the local utility company for assistance. Contact with electric lines can lead to fire and electric shock. Damaging a gas line can lead to explosion. Penetrating a water line causes property damage.
When working with the machine, always hold it firmly with both hands and provide for a secure stance. The power tool is guided more secure with both hands.
Secure the workpiece. A workpiece clamped with clamping devices or in a vice is held more secure than by hand.
Always wait until the machine has come to a complete stop before placing it down. The tool insert can jam and lead to loss of control over the power tool.
Do not open the battery. Danger of short-circuiting.
Protect the battery against heat, e. g., against continuous intense sunlight, fire, water, and moisture. Danger of explosion.
In case of damage and improper use of the battery, vapours may be emitted. Ventilate the area and seek medical help in case of complaints. The vapours

can irritate the respiratory system.
Use the battery only in conjunction with your ELITECH power tool. This measure alone protects the battery against dangerous overload.
The battery can be damaged by pointed objects such as nails or screwdrivers or by force applied externally. An internal short circuit can occur and the battery can burn, smoke, explode or overheat.

EXTRA SAFETY REGULATIONS CONCERNING BATTERY

To ensure the longest battery life and best battery performance, always charge the battery when the temperature is between 18-24°C. Do not charge the battery pack when the temperature is below 0°C, or above 40°C. This is important. Failure to observe this safety rule could cause serious damage to the battery pack.
Do not incinerate the battery pack even if it is seriously damaged or can no longer hold a charge. The battery pack can explode in a fire.
A small leakage of liquid from the battery pack may occur under extreme usage or temperature. This does not necessarily indicate a failure of the battery pack. However, if the outer seal is broken and this leakage comes into contact with your skin:

- ✓ Wash the affected area quickly with soap and water.
- ✓ Flush your eyes with clean water for a minimum of 10 minutes and seek immediate medical attention.

Never attempt to open the battery pack for any reason. If the plastic housing of the battery pack breaks open or cracks, immediately discontinue its use and do not recharge it.
Do not store or carry a spare battery pack in a pocket or toolbox or any other place where it may come into contact with metal objects. The battery pack may be short circuited causing damage to the battery pack, burns or a fire. If storing or disposing the battery pack, cover the terminals with a heavy insulation tape to ensure short circuit cannot occur. Batteries, when stored for a long period of time, will discharge.
Do not store or use the tool and battery pack in locations where the temperature may reach or exceed 40°C such as alongside sheds or metal structures in the summer.
Allow the battery pack to cool down after charging. Do not place it in a hot environment such as a metal shed or open trailer left in the sun.
Only charge the battery with the charger supplied.
Do not put the battery pack near fire or high temperature position.
Do not splash or immerse in water or other liquids. This may cause premature cell failure.
When transporting individual batteries, make sure that the battery terminals are protected and well insulated from materials that could

contact them and cause a short circuit.
The best storage place is one that is cool and dry away from direct sunlight and excess heat or cold.
If the battery pack has been stored for a long time, you should activate the battery pack first before using it.
The battery is to be disposed of safely.

EXTRA SAFETY REGULATIONS CONCERNING BATTERY CHARGER

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.
Children shall not play with the appliance.
Cleaning and user maintenance shall not be made by children without supervision.
For indoor use only
Warning do not recharge non-rechargeable batteries
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.
Before using the charger, read all the instructions and cautionary markings on the charger and battery pack as well as the instructions on the battery pack.
Only charge your battery pack indoors as the charger is designed for indoor use only.
DANGER: If the battery pack is cracked or damaged in any other way, do not insert it in the charging base. There is a danger of electric shock or electrocution.

⚠ **WARNING:** Do not allow any liquid to come into contact with the charger. There is a danger of electric shock.
The charger is not intended for any use other than charging the exact type of rechargeable battery pack as supplied with the charger. Any other use may result in the risk of fire, electric shock or electrocution.
The charger and battery pack supplied with it are specifically designed to work together. Do not attempt to charge the battery pack with any other charger than the one supplied.
Do not place any object on top of the charger as it could cause overheating.
Do not place the charger near any heat source.
Pull on the charger to disconnect it from the power source. Do not pull on the lead.

Make sure that the charger lead is positioned where it will not be stepped on, tripped over or otherwise subjected to damage or stress.
Do not use an extension cord unless it is absolutely necessary. The use of an improper extension cord could cause the risk of fire, electric shock or electrocution.
Do not use the charger if it has been subjected to a heavy knock, dropped or otherwise damaged in any way. Take the charger to an authorized service centre for a check or repair.
Do not disassemble the charger. Take it to an authorized service centre when service or repair is required. Incorrect re-assembly may result in the risk of fire, electric shock or electrocution.
To reduce the risk of an electric shock, unplug the charger from the power supply before attempting to clean it. Removing the battery pack alone does not reduce the risk.
The charger is designed for use from a standard household electrical supply. Do not attempt to connect the charger to a supply with a different voltage.
The charger 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 charger by a person responsible for their safety.
Children should be supervised to ensure that they do not play with the charger.
Do not expose charger to rain or snow.
Do not mount charger on wall or permanently affix charger to any surface. The charger is intended to use on a flat, stable surface(i.e. table top, bench top)
Never attempt to connect two chargers together.
Never insert any objects into the charger’s air vents. Electric shock or damage to the battery charger may result.
Disconnect the charger from the outlet before attempting any cleaning. This will reduce the risk of electric shock. Removing the battery pack will not reduce this risk.
Never recharger a fully charged battery cartridge.
Do not charge non-rechargeable batteries.

INTENDED USE

The machine is intended for sawing wood, plastic, metal and building materials while resting firmly on the workpiece. It is suitable for straight and curved cuts.

LIST OF MAIN PARTS

1	Saw blade
2	Pivoting blade foot
3	Tool-free chuck
4	Lock-off button
5	On/off switch
6	Allen wrench
7	Battery pack（excluded）

TECHNICAL SPECIFICATIONS

Product Description	18V Li-ion Sabre Saw
Rated voltage of battery	18V ⎓
Rated speed	0-2800rpm
Stroke length	25.4mm

max cutting capacity:	100mm in wood 8mm in metal
Sound pressure level LpA (KpA=3dB(A))	77.1 dB(A)
Sound power level L_{wA} (K_{wA}=3dB(A))	88.1 dB(A)
Level of vibration a_h (K=1.5m/s^2)	6.143 m/s^2
Battery and Charger	
Recommended battery	BA-1850B Li-ion 18V d.c. 5.0Ah
Recommended charger	1. Model : CH-1802A Input : 100-240V~ 50Hz 60W Output : 20V DC 2.3A Charging time : 140MIN
	2. Model :CH-1802B Input : 100-240V~ 50Hz 125W Output : 20VDC, 5A Charging time : 70 MIN
	3. Model :CH-1802D Input : 100-240V~ 50Hz 130W Output : 20VDC, 2.3AX2, USB×2, 5VDC MAX 2A Charging time : 140MIN

NOISE/VIBRATION INFORMATION

Measured sound values determined according to EN 62841.

Wear hearing protection!

Vibration total values (triax vector sum) determined according to EN 62841: The vibration emission level given in this information sheet has been measured in accordance with a standardized test given in EN 62841 and may be used to compare one tool with another. It may be used for a preliminary assessment of exposure. The declared vibration emission level represents the main applications of the tool. However if the tool is used for different applications, with different accessories or poorly maintained, the vibration emission may differ. This may significantly increase the exposure level over the total working period. An estimation of the level of exposure to vibration should also take into account the times when the tool is switched off or when it is running but not actually doing the job. This may significantly reduce the exposure level over the total working period. Identify additional safety measures to protect the operator from the effects of vibration such as: maintain the tool and the accessories, keep the hands warm, organization of work patterns avoid vibration risk.

Vibration risk limitation suggestions:

1) wear glove during operation
2) limit operating time and shorten trigger time.

Before using the equipment

Battery charger (Fig.1)

The lithium-ion battery can be charged at any time and will not develop a “memory” when charged after only a partial discharge. It is not necessary to run down the battery pack charge before recharging. Remove the battery pack from the tool when convenient for you and your job. You can “top-off” your battery pack’s charge before starting a big job or long period of use.
Due to lithium-ion’s fade-free properties, the only time it is necessary to charge the lithium-ion battery pack is when the pack has reached the end of its charge. To signal the end of charge, power to the tool will drop quickly. Charge the battery pack as needed.

Fig.1

CH-1802A CH-1802B CH-1802D

a. Charging the battery

This lithium-ion battery pack is shipped partially charged. Before using it the first time, fully charge the battery pack. A fully discharged battery pack with a temperature between 5℃ and 35℃ will charge in about 70-140MIN(See section”Specifications”).

CH-1802A:

- Plug the charger adapter into power source. The green light on the charger stand will illuminate, indicating the charger is powered.
- Slide the battery all the way into the charger stand until it locks in place with a click. The red light on the charger stand will illuminate, indicating that the battery is charging.
- The red light will go off after charging is complete and a green light will appear.

CH-1802B/CH-1802D:
See the manual of CH-1802B/CH-1802D

NOTE: Batteries may become warm while charging. This is normal. If the battery is hot after continuous use in the tool, allow it to cool down to room temperature before charging. This will extend the life of your batteries.
WARNING: Always disconnect the battery pack from the tool before any assembly, adjustments or changing accessories.

b. Insertion and removal of rechargeable battery (Fig.2)
Depress the battery-release button located on the front of the battery pack to release battery pack.
Pull the battery pack out and remove it from the tool.

Fig.2

OPERATION

REPLACING/INSERTING THE SAW BLADE

Remove the plug from the socket before carrying out any adjustment, servicing or maintenance.

When mounting the saw blade, wear protective gloves. Danger of injury when touching the saw blade. When changing the saw blade, take care that the saw blade holder is free of material residue, e. g. wood or metal shavings.

Selecting a saw blade
Use only saw blades with single-nose shank. The saw blade should not be longer than required for the intended cut. Use a thin saw blade for narrow curve cuts.

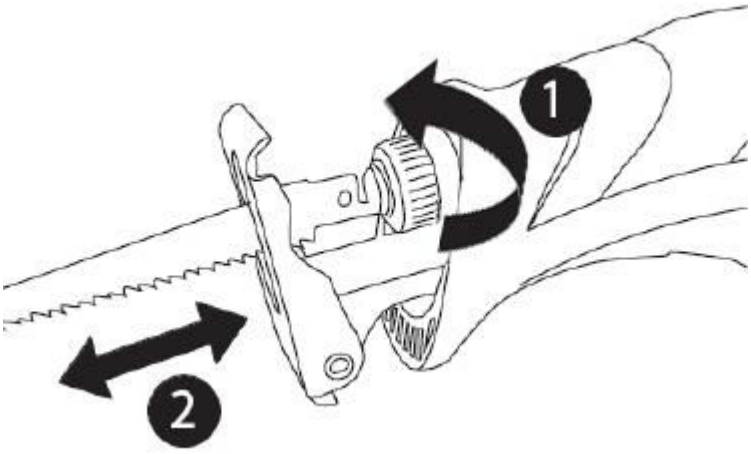
Inserting a saw blade
Rotate the tool-free blade clamp ring anti-clockwise and hold. Insert the blade into the saw's blade clamp and make sure that the blade attaches to the blade

pin inside the clamp. Release the blade clamp ring and ensure the blade is locked securely in place.

Check the tight seating of the saw blade. A loose saw blade can fall out and lead to injuries. For certain work, the saw blade can also be turned through 180° (with the teeth pointed upwards) and reinserted again.

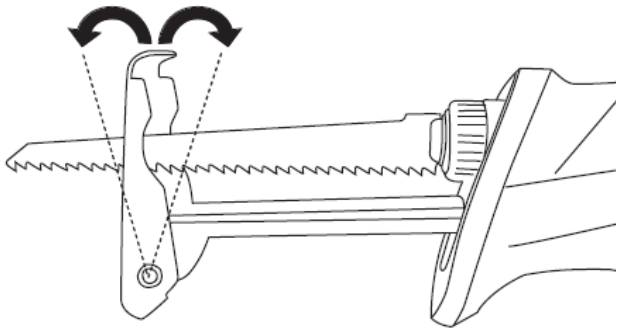
Removing a saw blade

Rotate the tool-free blade clamp ring anti-clockwise and hold. Pull the blade out and release the clamp ring.

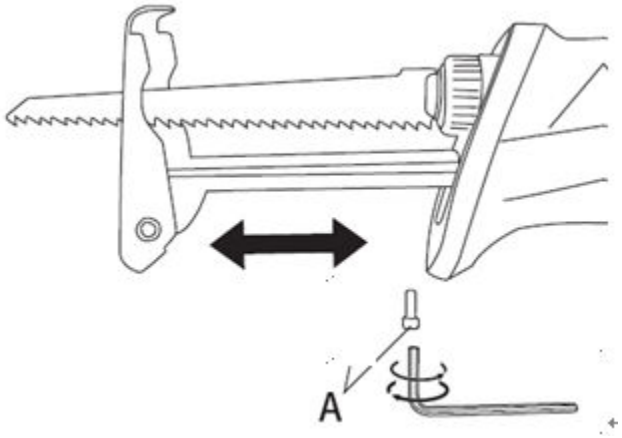


Pivoting blade foot

Due to its movability, the adjustable pivoting blade foot adapts to the required angular position of the surface. It must be held firmly against the material being cut to reduce saw vibration, blade jumping and blade breakage.



If you need to reduce the cutting capacity of your tool (depth of cut), the pivoting foot plate may be adjusted as follows. Loosen the securing screw on the underside of the front housing with a hex key. Slide the pivoting blade foot to the required position. Tighten both screws and check that the blade foot is firmly latched.



Switching on and off
Depress the On/Off switch to start and release it to stop your tool. Depress the on/off switch then the lock on button. Your tool is now locked on for continuous use. To switch off your tool just depress and release the on/off switch.

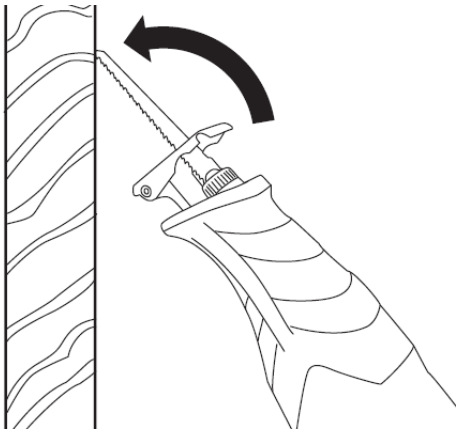
Controlling the stroke rate
For sawing appropriately to the material a suitable stroke rate can be set with the regulating wheel and controlled with the ON-OFF switch. The setting wheel serves at the same time to steplessly adjust the stroke rate while the saw is operating.

Cutting instruction
Plunge cutting

The plunge cutting procedure is only suitable for treating soft materials such as wood, plaster board or similar! Do not work metal materials with the plunge cutting procedure!

Use only short saw blades for plunge cutting.

Place the machine with the edge of the blade foot onto the workpiece and switch on. For power tools with stroke speed control, set the maximum stroke speed. Press the power tool firmly against the workpiece and allow the saw blade to slowly plunge into the workpiece. As soon as the blade foot fully lays on the surface of the workpiece, continue sawing alongside the desired cutting line. For certain work, the saw blade can also be inserted turned through by 180° and the sabre saw can be guided accordingly in a reversed manner.



Flush cutting

Pay attention that the saw blade always extends beyond the diameter of the material being worked. There is danger of kickback.

It is possible to make cuts extremely close to floors, walls and other difficult areas. Insert the blade shank into the blade clamp with the blade teeth facing up (opposite to normal working position). This will make cuts closer to the work surface. Using special flexible blades insert the blade into the blade clamp with the blade teeth facing down (normal working position). It will allow flush pipe cutting.

Wood cutting

For easier control use low speed to start cutting, then increase to the correct speed.

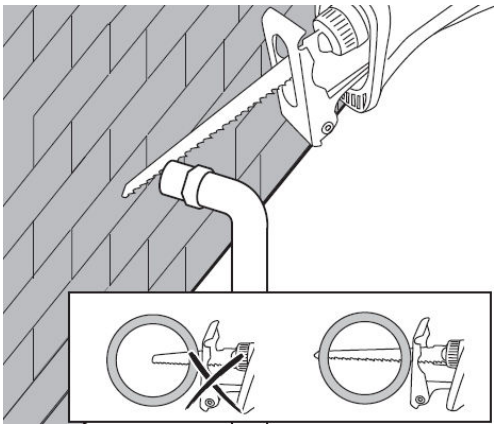
Metal cutting

This saw has different metal cutting capacities depending upon the type of blade being used and metal being cut.Use a finer blade for ferrous metals and a coarse blade for non-ferrous metals.

When cutting thin gauge sheet metals, ALWAYS clamp wood on both sides of the sheet. This will give you a clean cut without excess vibration or tearing of the metal.

DO NOT force the cutting blade. Forcing the blade will reduce blade life and cause the blade to break.

NOTE: We recommend that you spread a thin film of oil or other coolant along the line of cut ahead of the saw. This will allow easier operation and help extend blade life. When cutting aluminum, use kerosene.



WORKING HINTS FOR YOUR RECIPROCATING SAW

1. If your power tool becomes too hot, set the speed to maximum and run no load for 2-3 minutes to cool the motor.
2. Always ensure the work-piece is firmly held or clamped to prevent movement.
3. The blade guard must be held firmly against the material being cut to reduce saw vibration, blade jumping and blade breakage.

SERVICE & MAINTENANCE

Always remove the battery from the tool before performing any adjustment or maintenance operation.

Take care not to expose this tool to the rain.

Keep the ventilation openings clear and clean the product regularly.

Repair of the tool must only be carried out by a qualified repair technician.

Repair or maintenance by unqualified personnel can lead to a risk of injury.

Use only identical spare parts for repairing a tool

Cleaning

Avoid using solvents when cleaning plastic parts. Most plastic parts are susceptible to damage from various types of commercial solvents and may be damaged by their use. Use clean clothes to remove dirt, carbon dust, etc.

Storing

Store the machine, operating instructions and where necessary the accessories in the original packaging. In this way you will always have all the information and parts ready to hand.

Pack the device well or use the original packaging in order to avoid transit damage.

Always keep the machine in dry place.

Disposal

Electronic devices are recyclable waste and must not be disposed of in the household waste. At the end of its service life, dispose of the product according to the relevant statutory regulations.

Remove any rechargeable battery, if necessary, and dispose of it separately from the product.

You thus fulfil your statutory obligations and contribute to environmental protection.

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