EXCEL

CORDLESS ANGLE GRINDER 18V

11750/AG-L0118

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°C)

On charger

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

 Use this device indoors only.

GENERAL SAFETY WARNINGS FOR THE TOOL

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

SAVE ALL THE 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 and 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, clothing and gloves 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 these devices can reduce dust related hazards.

4) Power tool use and care

a) **Do not force the power tool. Use the correct power 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 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.

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. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tools 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 intended could result in a hazardous situation.

5) Battery tool use and care

a) **Ensure the switch is in the off position before inserting battery pack.** Inserting the battery pack into power tools that have the switch on invites accidents.

b) **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.

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

d) **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.

e) **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.

6) Service

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

SAFETY INSTRUCTIONS FOR ALL OPERATIONS

a) **This power tool is intended to function as a grinder. Read all safety warnings, instructions, 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.

b) **Operations such as wire sanding, wire brushing, polishing or cutting-off are not recommended to be performed with this power tool.** Operations for which the power tool was not designed may create a hazard and cause personal injury.

c) **Do not use accessories which are not specifically designed and**

recommended by the tool manufacturer. *Just because the accessory can be attached to your power tool, it does not assure safe operation*.

d) **The rated speed of the accessory must be at least equal to the maximum speed marked on the power tool***. Accessories running faster than their rated speed can break and fly apart.*

e) **The outside diameter and the thickness of your accessory must be within the capacity rating of your power tool***. Incorrectly sized accessories cannot be adequately guarded or controlled.*

f) **Threated mounting of accessories must match the grinder spindle thread. For accessories mounted by flanges, the arbour hole of the accessory must fit the locating diameter of the flange.** Accessories that do not match the mounting hardware of the power tool will run out of balance, vibrate excessively and may cause loss of control.

g) **Do not use a damaged accessory. Before each use inspect the accessory such as abrasive wheels for chips and cracks, backing pad for cracks, tear or excess wear for loose or cracked wires. If power tool or accessory is dropped, inspect for damage or install an undamaged accessory. After inspecting and installing an accessory, position yourself and bystanders away from the plane of the rotating accessory and run the power tool at maximum no-load speed for one minute.** *Damaged accessories will normally break apart during this test time.*

h) **Wear personal protective equipment. Depending on application, use face shield, safety goggles or safety glasses. As appropriate, wear dust mask, hearing protectors, gloves and workshop apron capable of stopping small abrasive or workpiece fragments.** *The eye protection must be capable of stopping flying debris generated by various operations. The dust mask or respirator must be capable of filtrating particles generated by your operation. Prolonged exposure to high intensity noise may cause hearing loss.*

i) **Keep bystanders a safe distance away from work area. Anyone entering the work area must wear personal protective equipment.** *Fragments of workpiece or of a broken accessory may fly away and cause injury beyond immediate area of operation*.

j) **Hold the power tool by insulated gripping surfaces only, when performing an operation where the cutting accessory may contact hidden wiring or its own cord.** *Cutting accessory contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.*

k) **Position the cord clear of the spinning accessory.** *If you lose control, the cord may be cut or snagged and your hand or arm may be pulled into the spinning accessory.*

l) **Never lay the power tool down until the accessory has come to a complete stop.** *The spinning accessory may grab the surface and pull the power tool out of your control.*

m) **Do not run the power tool while carrying it at your side.** *Accidental*

contact with the spinning accessory could snag your clothing, pulling the accessory into your body.

n) **Regularly clean the power tool's air vents.** *The motor's fan will draw the dust inside the housing and excessive accumulation of powdered metal may cause electrical hazards*.

o) **Do not operate the power tool near flammable materials.** *Sparks could ignite these materials.*

p) **Do not use accessories that require liquid coolants.** *Using water or other liquid coolants may result in electrocution or shock.*

q) **Use only wheel types that are recommended for your power tool and the specific guard designed for the selected wheel.** *Wheels for which the power tool was not designed cannot be adequately guarded and are unsafe.*

r) **The grinding surface of centre depressed wheels must be mounted below the plane of the guard lip.** *An improperly mounted wheel that projects through the plane of the guard lip cannot be adequately protected*

s) **The guard must be securely attached to the power tool and positioned for maximum safety, so the least amount of wheel is exposed towards the operator.** *The guard helps to protect operator from broken wheel fragments and accidental contact with wheel and sparks that could ignite clothing.*

t) **Wheels must be used only for recommended applications. For example: do not grind with the side of cut-off wheel.** *Abrasive cut-off wheels are intended for peripheral grinding, side forces applied to these wheels may cause them to shatter.*

u) **Always use undamaged wheel flanges that are of correct size and shape for your selected wheel.** *Proper wheel flanges support the wheel thus reducing the possibility of wheel breakage. Flanges for cut-off wheels may be different from grinding wheel flanges.*

v) **Do not use worn down wheels from larger power tools.** *Wheel intended for larger power tool is not suitable for the higher speed of a smaller tool and may burst.*

Kickback and Related Warnings

Kickback is a sudden reaction to a pinched or snagged rotating wheel, backing pad, brush or any other accessory. Pinching or snagging causes rapid stalling of the rotating accessory which in turn causes the uncontrolled power tool to be forced in the direction opposite of the accessory's rotation at the point of the binding.

For example, if an abrasive wheel is snagged or pinched by the workpiece, the edge of the wheel that is entering into the pinch point can dig into the surface of the material causing the wheel to climb out or kick out. The wheel may either jump toward or away from the operator, depending on direction of the wheel's movement at the point of pinching. Abrasive wheels may also break under these conditions.

Kickback is the result of power tool misuse and/or incorrect operating procedures or conditions and can be avoided by taking proper precautions as given below.

a) **Maintain a firm grip on the power tool and position your body and arm to allow you to resist kickback forces. Always use auxiliary handle, if provided, for maximum control over kickback or torque reaction during start-up.** The operator can control torque reactions or kickback forces, if proper precautions are taken.
b) **Never place your hand near the rotating accessory.** Accessory may kickback over your hand.
c) **Do not position your body in the area where power tool will move if kickback occurs.** Kickback will propel the tool in direction opposite to the wheel's movement at the point of snagging.
d) **Use special care when working corners, sharp edges etc. Avoid bouncing and snagging the accessory.** Corners, sharp edges or bouncing have a tendency to snag the rotating accessory and cause loss of control or kickback.
e) **Do not attach a saw chain woodcarving blade or toothed saw blade.** Such blades create frequent kickback and loss of control.

Additional safety instructions for grinding and cutting-off operations
Safety Warnings Specific for Grinding and Abrasive Cutting-Off Operations:
a) **Use only wheel types that are recommended for your power tool and the specific**
guard designed for the selected wheel. Wheels for which the power tool was not designed cannot be adequately guarded and are unsafe.
b) **The grinding surface of centre depressed wheels must be mounted below the plane**
of the guard lip. An improperly mounted wheel that projects through the plane of the guard lip cannot be adequately protected.
c) **The guard must be securely attached to the power tool and positioned for maximum**
safety, so the least amount of wheel is exposed towards the operator. The guard helps to protect operator from broken wheel fragments and accidental contact with wheel and sparks that could ignite clothing.
d) **Wheels must be used only for recommended applications. For example: do not grind with the side of cut-off wheel.** Abrasive cut-off wheels are intended for peripheral grinding, side forces applied to these wheels may cause them to shatter.
e) **Always use undamaged wheel flanges that are of correct size and shape for your**

selected wheel. Proper wheel flanges support the wheel thus reducing the possibility of wheel breakage. Flanges for cut-off wheels may be different from grinding wheel flanges.
f) **Do not use worn down wheels from larger power tools.** Wheel intended for larger power tool is not suitable for the higher speed of a smaller tool and may burst.

 WARNING

Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:
- lead from lead-based paints,
- crystalline silica from bricks and cement and other masonry products, and
- arsenic and chromium from chemically-treated lumber.

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

SPECIAL SAFETY INSTRUCTIONS

1. WARNING. Contact with or inhalation of harmful / toxic dusts arising from sanding lead-based painted surfaces, woods and metals can endanger the health of operator and bystanders.
2. All persons entering the work area must wear an approved mask specially designed for protection against harmful / toxic dusts, in addition to using the dust extraction facility, and keeping work area well ventilated.
3. Children and pregnant women must not enter the work area.
4. Do not eat, drink or smoke in the work area.
5. Any pre 1960 building may have paint containing lead on wood or metal surfaces. If you suspect workpiece contains lead seek professional advice.
6. Some wood and wood type products especially MDF (Medium Density Fiberboard) can produce dust that can be hazardous to your health. We recommend the use of an approved face mask with replaceable filters when using this machine in addition to using the dust extraction facility.
7. This tool is designed for single handed operation. Adopt a stable distance and make sure that the mains cable is prevented from coming into contact with the machine or getting caught up on other objects preventing completion of the sanding pass.
8. Ensure that you have removed foreign objects such as nails and screws from the workpiece before commencing sanding.
9. Don‘t use it for wet sanding, for dry sanding only.

10. Do not scrape wet or dampened materials (e.g. wallpaper) or on moist surfaces. Penetration of water into the machine increases the risk of an electric shock.
11. Hold power tools by their insulated gripping surfaces when performing an operation where the cutting tool may contact hidden wiring or its own cord. Contact with a “live” wire will make exposed metal parts of the tool “live” and shock the operator.
12. Where possible, secure smaller workpieces to prevent them from moving under the tool.
13. Do not force the tool; let the tool do the work at a reasonable speed. Overloading will occur if too much pressure is applied and the motor slows resulting in inefficient sanding and possible damage to the motor.
14. Only use application accessories in good condition. Do not use them if they are torn or worn.
15. Do not touch the moving sanding sheet.
16. Do not treat the surface to be worked with solvent-containing fluids. Materials being heated by the scraping can cause toxic vapors to develop.
17. Exercise extreme caution when handling the scraper accessory. The accessory is very sharp; danger of injury.
18. Keep your hands away from the cutting area. Do not reach under the material being cut.
The tool must be used only for its prescribed purpose. Any use other than those mentioned in this Manual will be considered a case of misuse. The user and not the manufacturer shall be liable for any damage or injury resulting from such cases of misuse.

To use this tool properly, you must observe the safety regulations, the assembly instructions and the operating instructions to be found in this Manual. All persons who use and service the machine have to be acquainted with this Manual and must be informed about its potential hazards. Children and frail people must not use this tool. Children should be supervised at all times if they are in the area in which the tool is being used. It is also imperative that you observe the accident prevention regulations in force in your area. The same applies for general rules of occupational health and safety.
The manufacturer shall not be liable for any changes made to the tool nor for any damage resulting from such changes.
Even when the tool is used as prescribed it is not possible to eliminate all residual risk factors. The following hazards may arise in connection with the tool’s construction and design:
• Damage to the lungs if an effective dust mask is not worn.
• Damage to hearing if effective hearing protection is not worn.
Hand-arm vibration syndrome if its use is not adequately managed.

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:

- **ü** Wash the affected area quickly with soap and water.
- **ü** 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 sanding, sawing, scraping and cutting on wood, plasterboard, soft plastics and metals.

LIST OF MAIN PARTS

1	Spindle Lock Button
2	On/Off Switch
3	Main Handle
4	Auxiliary Handle
5	Protective Guard
6	Two-hole spanner
7	Battery Pack(excluded)

TECHNICAL SPECIFICATIONS

Product description	18V Li-ion Angle Grinder
Rated voltage of battery	18V ⎓
Speed, n	9500rpm
Wheel size	φ115 mm
Sound pressure level L_{pA} (K_{pA}=3dB(A))	76 dB(A)
Sound power level L_{wA} (K_{wA}=3dB(A))	87 dB(A)

Level of vibration a_h (K=1.5m/s^2)	9,108 m/s2
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 60745-1.

Wear hearing protection!

Vibration total values (triax vector sum) determined according to EN 60745-1:

The vibration emission level given in this information sheet has been measured in accordance with a standardized test given in EN60745-1 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 maintaining the tool and the accessories, keeping hands warm, adjusting work patterns to avoid risk of vibration.

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

Fitting the auxiliary handle (Fig. 3)
The auxiliary handle can be attached to the angle grinder in 3 different positions: left, right and top.


Fig 3

Disc Guard
CAUTION! The machine should be used only with guard.
The position of the disc guard can be adjusted to suite the working conditions.
To do this, please follow below steps(**Fig. 4**):


Fig 4

• Pull the quick clamping head

• Turn the guard to the desired position
• Press the quick clamping head

Replacing the grinding disc

WARNING: Beware that a disc which has been used may be very hot!
• Depress and hold down the spindle lock button to secure the spindle.(**Fig.5**)
• Turn the shaft until it locks.
• Remove the outer flange and backing flange by using the two-hole spanner provided.(**Fig.6**)
• Fit the desired disc on the spindle and replace the outer flange and backing flange. Release the spindle lock.(**Fig.7**)

Fig.5

Fig.6

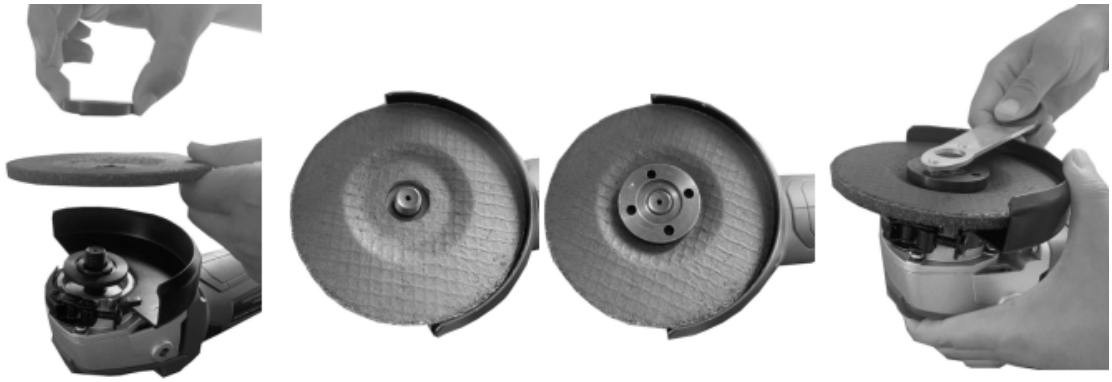

Fig.7

WARNING: Important! Only ever press the spindle lock when the motor and grinding spindle are at a standstill !
You must keep the spindle lock pressed while you change the wheel !
For grinding wheels up to approx. 3 mm thick, screw on the flange nut with the flat side facing the grinding wheel.

Switching on / off (Fig.8)

WARNING: Before engage on the ON/OFF switch button, check that the grinding disc is properly fitted and run smoothly, the outer flange is well tightened.

• Connect the battery pack onto the angle grinder body.

• The machine can only be started by depressing the on/off switch left, then push the switch up,you can start the machine

• Press down the front part of the switch, the on/off switch can be locked in on position (1 position) for continuous grinding

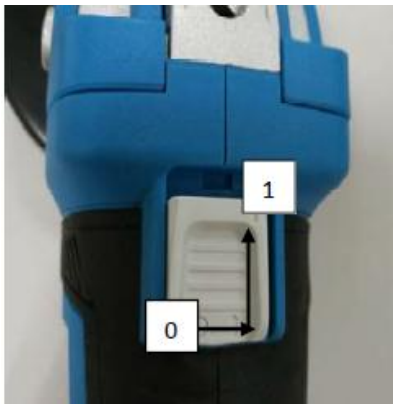

Fig.8

• Press rear part of the switch, the tool will turns off.

• Do not let go of grinder until it has stopped running.

WARNING: The wheel continues to rotate after the tool is switched off.

Grinding (Fig.9)

Hold the handle and auxiliary handle firmly and switch on. Avoid blocking the ventilation slots with your hand, as this may cause the grinder to overheat. Let the disc reach full speed. Apply the grinder to the item. Maximum effect is achieved when the grinder is held at an angle of 15-30°in relation to the item. Move the grinder gently along the item. Give the grinder time to work. It is rarely necessary to press the disc hard against the surface to be worked. Sparks can occur in the motor compartment during use. This is normal and does not mean the grinder is defective. Switch off the grinder after use.

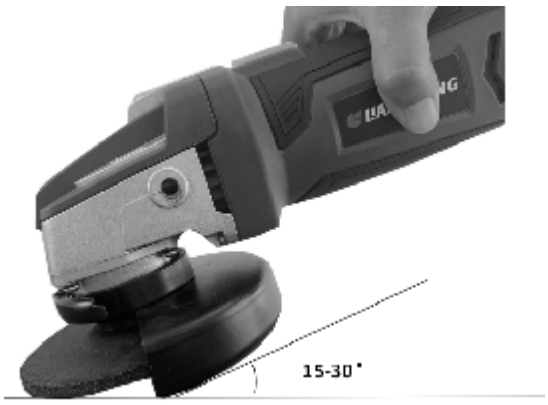

Fig.9

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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