

Instruction Manual

Battery Powered Ratchet Cutter



Due to continuing improvements, actual product may differ slightly from the product described herein.



Read this material before using this product.

Failure to do so can result in serious injury.

SAVE THIS MANUAL

SAVE THIS MANUAL

Keep this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures. Write the month and year of purchase. Keep this manual and the receipt in a safe and dry place for future reference.

IMPORTANT SAFETY INFORMATION

In this manual, on the labeling, and all other information provided with this product:



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

GENERAL SAFETY RULES

TO WORK IN SAFE CONDITIONS WITH THIS TOOLING, IT IS IMPERATIVE TO READ CAREFULLY THE DIRECTIONS FOR USE AND TO FOLLOW THE INSTRUCTIONS IT CONTAINS. IF YOU DO NOT RESPECT THE INFORMATION WRITTEN IN THAT INSTRUCTION MANUAL THE WARRANTY WILL BE CANCELLED.

1. Work area safety

- a. Keep work area clean and clear. Cluttered or dark areas invite accidents.
- b. This tool is not insulated; Please do not use it on live conductor.
- c. Please do not use or store the tool under high temperature, or one surrounding filling with corrosive fluid. Pay attention to the sealing kits becoming aging.
- d. Keep children and bystander away while operating the Battery powered tool. Distractions will cause you to lose control.
- e. Do not use or charging the tool around flammable, explosive environment

2. Electrical safety

- f. Make sure the plug matches with the plug seat. Never try any changes on the plug.
- g. Do not put tool, battery and charger under a rainy or humid surroundings, it is easy to trigger an electric shock accident if any water goes into the electric system of the tool.
- h. Do not use electric wire to carry, pull, or to draw out the plug and do not connect the “-” and “+”, the damaged or twined wire may cause an electric shock accident.
- i. If the charger was strongly crashed, or dropping down or any other damages happening, please do not try to repair it by yourself, send it back to the authorized service center as soon as possible. The damaged charger may cause an electric shock accident.
- j. The best temperature for charging is between 10°C-40°C. Make sure the air hole of the battery and charger are uncovered during charging.

- k. Please cut off the power of the charger each time to reduce the hazard from child or the person who not expert on the tool.
- l. Do not wait until the battery runs over for recharging, the recharging will cause the battery does not work anymore. Please keep the battery out of the tool to avoid the power discharge.
- m. Please do not burn the battery or make it being short-circuited, it may cause explosion.
- n. Do not use the waste battery otherwise it will cause the electric shock.
- o. Do not disassemble the battery and charger. If any problems, please contact with manufacture or agent.

3. Personal safety

- p. Stay alert, watch what you are doing and use common sense when operating the tool. Do not use the tool while you are tired or still under the influence of drugs, alcohol or medication. A moment of inattention may result in series personal injury.
- q. Use safety equipment. Always use safety equipment such as mask, helmet, safety cap, insulating shoes and etc to reduce the risk of personal injury.
- r. 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.
- s. Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the tool operation. If damaged, have the tool repaired before use. Many accidents are caused by poorly maintained power tools.
- t. Please use the tool properly, the tool with correct power will do the job better and safer at the rate for which it was designed.
- u. Do not put your fingers into the head of the tool during operating. Your fingers could be pinched very severely.

4. Service

Have your Battery Powered Ratchet Cutter serviced by a qualified service technician using only identical replacement parts. This will ensure that the safety of the Battery Powered Ratchet Cutter Kit is maintained.

SPECIFIC SAFETY RULES

- 1) Maintain labels and nameplates on the tool which carry important safety information. If unreadable or missing, contact the agent to replace.
- 2) This product is not a toy, keep it out of reach of children.
- 3) Do not put your fingers into the head of the tool during operating. Your fingers could be pinched very severely.
- 4) Make sure the head was locked firmly during operation.
- 5) Do not use the tool without blade.
- 6) Do not cutting on live cables or conductors
- 7) Do not knock any parts of the tool, otherwise it will cause injury.
- 8) Do not operate at will, it will damage the MCU and electric system.
- 9) The design of the limit screw on the head is for preventing the head from dropping or popping.
- 10) Make sure the head was locked firmly during operation.
- 11) Do not use this tool for continuous use. After 30 to 40 cycles, allow the tool to cool for 15 minutes.
- 12) Do not secure this tool in a vise. This tool is designed for hand-held operation.
- 13) The warnings, precautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

UNDERSTAND YOUR TOOL

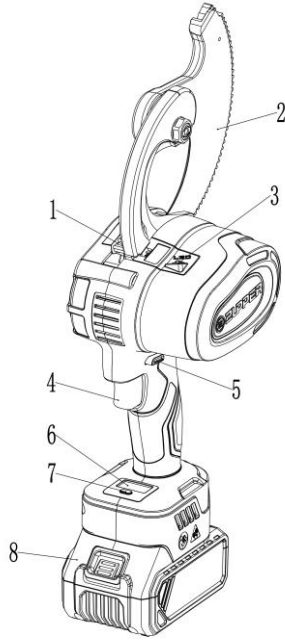
MC-55 is for cutting **Cu/Al, Light armored Cu&Al cables**. It carries more advantages of high efficiency, easy operate, It is powered by Li-ion, actuated by motor and controlled by MCU. It is a perfect tool to be used in electrical construction site.

1. Specification

Item No.:	MC-55
Cutting material:	Cu/Al, Light armored Cu&Al cables
Cutting range:	
Max. single-core Cu cable	500mm ²
Max. single-core Al cable	630mm ²
Max. armoured cable	4x150mm ²
Voltage/capacity:	DC 18V/4.0Ah
Charging time:	Approx.80mins
Weight:	3.8kgs(with battery)
Size of tool:	390x188x117mm
Package:	Plastic box
Accessories:	
Battery:	2 pcs
Charger:	1 pc

Note: This cutter is only suitable for cutting ordinary copper/aluminum cables and light armored cables. It must not be used to cut high-hardness cables/wires, steel strands, grounding rods, etc.

2. Description of components:



Parts No.	Description	Function
1	Brush	For preventing debris from entering
2	Active blade	For cutting off cable
3	LED indicator	For illumination
4	Start button	For starting operation
5	Feed/retract gear	For switch between forward, reverse and neutral gears
6	OLED display	Show cutting cycles, electricity errors info
7	Settle button	For switching to gear positions 0-6 for tool retraction
8	Battery	For supplying power, rechargeable Li-ion (18V)

3. Function description



Micro computer control system - Automatically performs pressure monitoring and provides dual safety protection during operation, and can realize automatic tool retraction or stop after completing cutting at different gears.



OLED display - Dot matrix OLED display, which shows working times, battery power, maintenance reminding and fault code.



Retraction manually - The blade can be retracted manually if an error occurs during the cutting process.



Illumination for working safely in a dark place, the light will automatically turn off after a delay of 20 seconds.



If a deviation from the set operation pressure or low battery charges is identified, an acoustic signal sounds and LED indicator flashes.

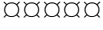
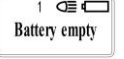
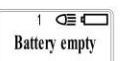
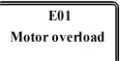
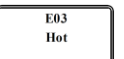


The overall structure of the tool is compact. It is ergonomically designed with a non-slip rubber grip and an optimized center of gravity for easier operation.



A temperature sensor makes the tool stop working automatically when the temperature over 70°C under long time working, the fault signal sounds, it means the tool can't continue working until the temperature reduce to the normal.

Table 1 Signal Instruction and Meaning:

Series No	Instruction	LED red/green	LED white		OLED screen	What it means
1	Self-checking	 red+green				Self-checking to assure everything is ok
2	Light		Delay 20s, then turn off			Enter the working state, the battery is full
3	Charging reminding	 red				Battery icon blinking, lacking power and need charging
				 (0.1s)		Deep battery discharge detected; the control board shuts down immediately. Recharge or replace the battery promptly
4	Short circuit or motor lock-up	 (constant light) red		 (3s)		Check if the motor is jammed battery reloading, please contact the dealer or manufacturer if still can't work normally
5	Gearbox high temperature warning	 red				Waiting for gearbox cooling to restart the tool
6	MOS hot warning	 red				Please wait for the circuit board to cool down before use
7	Maintenance reminding	 (flicker) red+green		 (0.1s)		The maintenance wrench icon blinking, tool must be maintained

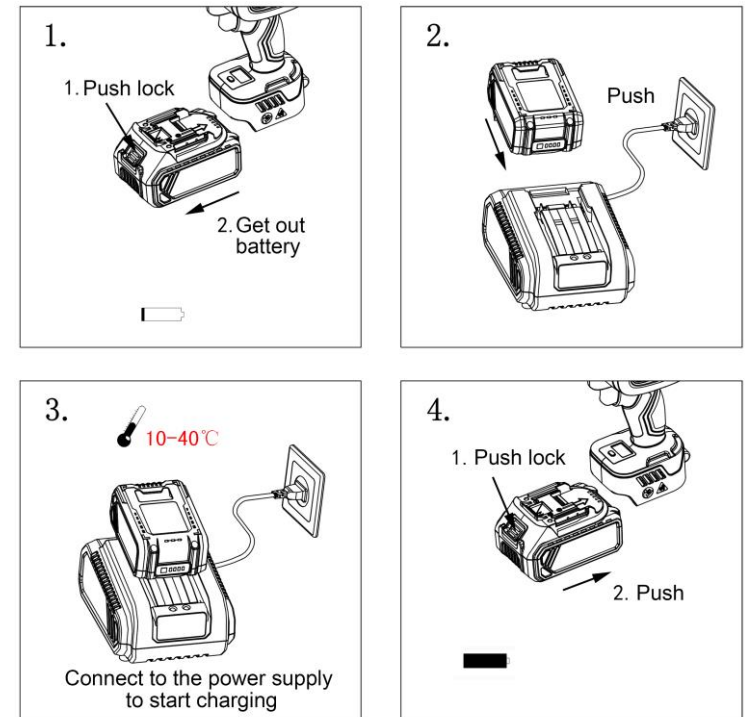
OPERATING INSTRUCTION

Read the entire **SAFETY INFORMATION** section at the beginning of this manual including all text under subheadings therein before using this product.

Use this tool for the manufacturer's intended purpose only. Use other than that which is described in this manual can result injury or property damage.

1. Charging

Push battery into charger and connect the plug with the plug seat. Make sure the room temperature is between 10°C-40°C. The charging time is around 80mins. Please see the illustration below.



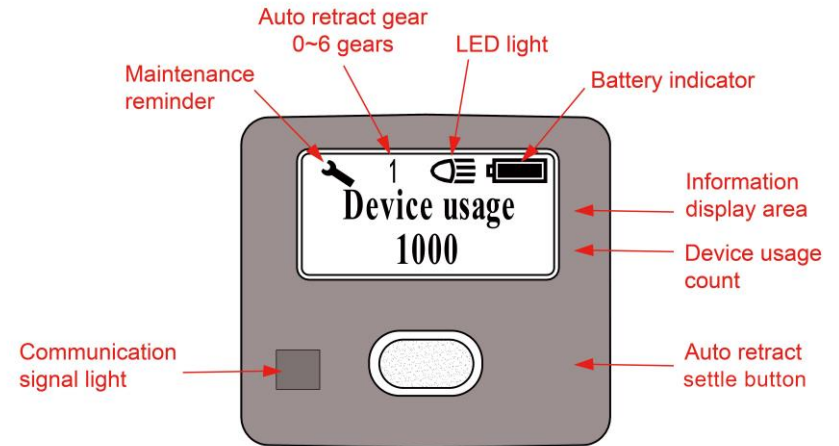
The detail of the charging information, please refer the manual (MANUAL FOR CHARGER)

⚠ CAUTION

- 1) The battery can be used for hundreds of times, when the life span reduced obviously, change to a new battery please.
- 2) Please charging the battery in time to avoid it to be used up absolutely; otherwise it will become useless forever. if the battery not be used for a long time, it will discharge automatically. Make sure to charge it one time per/each quarter.
- 3) Do not connect the two poles of the battery with a wire, which is likely to cause electric spark, combustion or even explosion.
- 4) Do not use the damaged battery or charge it, or it will increase the risk of electric shock.
- 5) Under no circumstances should batteries be burned, or they may explode.
- 6) When charging the battery, do not cover the charger with any object, so that the charger cannot dissipate heat, which is likely to cause fire.
- 7) Disconnect the charger when not in use. It will reduce the risk of injury to children and untrained personnel.
- 8) Do not use the charger in humid environment, and do not expose to rain and snow, or it will increase the risk of electric shock.
- 9) Do not disassemble the battery and charger without permission. If there is any fault in the process of use, please send it to the professional or the manufacturer for maintenance, until the problem is solved.

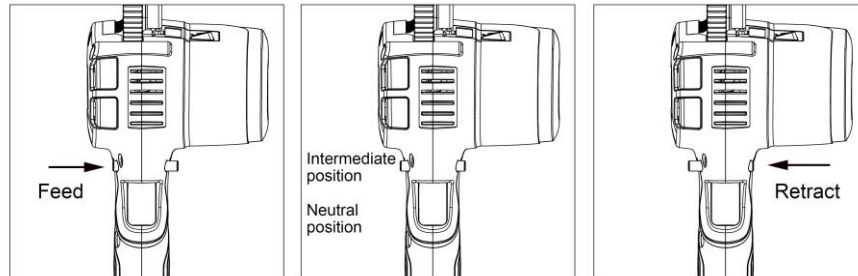
2. Usage of the tool

2.1 OLED display interface description:



Automatic retraction gear of the tool has 6 levels from 1 to 6. The higher the gear level, the longer the automatic retraction stroke of the blade. Select the appropriate retraction gear according to the outer diameter of the cable to be cut, so as to improve working efficiency. The blade retraction can be stopped at any time by briefly pressing the start button during the retracting process.

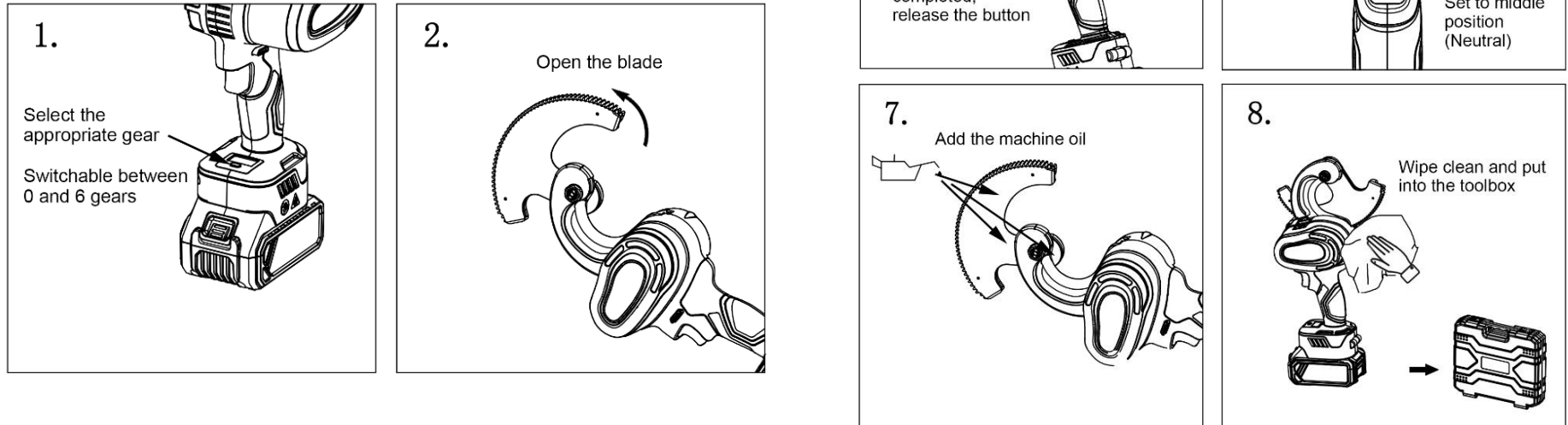
2.2 Feed/retract and lock button instruction:



When a fault occurs during tool operation, the button can be adjusted at any time to retract the blade from cutting.

After use or during storage, please switch the button to the neutral position to prevent accidental activation in next operation.

2.3 Operation





Warning:

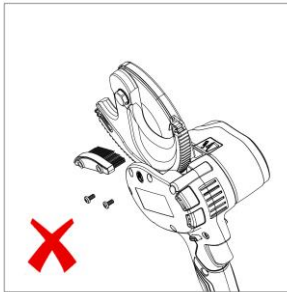
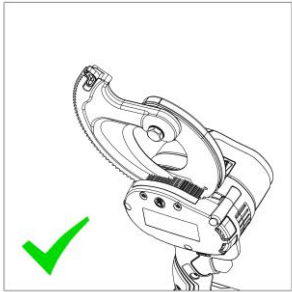
1. Do not strike or hit any part of the tool. Before operation, inspect the tool for damage, wear, missing parts, misalignment, jamming, or any other unsafe conditions that may affect safe and proper operation. Ensure the switches function properly and are not jammed. If any problem is found, stop using the tool immediately until the issue is resolved.

2. Remove all grease, dust, and dirt, especially from the handles and controls, to prevent slippage during use.

3. Overloading may cause overheating and damage to the tool. Avoid continuous high-frequency operation. The maximum cutting frequency is 4 times per minute. After approximately 30 minutes of operation, stop for 15 minutes to allow the tool to cool down.

4. During operation, never place fingers or any body parts inside the cutting blade area to avoid pinching or injury.

5. Do not remove the brush on the tool without authorization. If the brush is lost or damaged, stop cutting operations. Replace the brush with a new one before reuse.



6. After use, return the gear shift button to neutral to prevent hazards caused by accidental operation.

MAINTENANCE AND SERVICING

⚠ WARNING

Damaged equipment may cause serious personal injury. Do not use damaged equipment. If abnormal noise or vibration occurs, have the problem corrected before further use.

1. **Before each use**, inspect the general condition of the tool. Check for loose screws, misalignment or binding of moving parts, cracked or broken parts, or any other condition that may affect its safe operation.
2. **After using**, clean external surfaces of the tool with clean, moist, smear the rust preventing oil on the metal surface of the tool and the dies to avoid rusty. Store the tool in the dry environment.
3. Service to the tool should only be done by a qualified Service Technician.
4. Keep the tool and spare parts dry. If the tool is wet, take out the battery, and wait until the tool is completely dry before reloading the battery.
5. Do not put the tool in too hot or cold place. Otherwise the spare parts will be damaged.
6. Do not use aggressive chemical cleaners or strong detergents to clean tools.
7. The warranty of tool is 1 year or 10,000 cycles. In order to prolong the life of the tool please maintain every 10,000 cycles.
8. If the tool not used for a long time, please make sure the piston stays on its starting position, clear up the tool and paint the rustproof oil both to the tool and accessories. Take out the battery and put them into box and store the tool in a dry surrounding.

LIMITED 1 YEAR WARRANTY

We make every effort to assure that its products meet high quality and durability standards, and warrants to the original purchaser that this product is free from defects in materials and workmanship for the period of one year from the date of shipment (90 days if used by a professional contractor or if used as rental equipment). This warranty does not apply to damage due directly or indirectly, to misuse, abuse, negligence or accidents, repairs or alterations outside our facilities, normal wear and tear, or to lack of maintenance. We shall in no event be liable for death, injuries to persons or property, or for incidental, contingent, special or consequential damages arising from the use of our product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation of exclusion may not apply to you. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS.

To take advantage of this warranty, the product or part must be returned to us with transportation charges prepaid. Proof of purchase date and an explanation of the complaint must accompany the merchandise. If our inspection verifies the defect, we will either repair or replace the product at our election or we may elect to refund the purchase price if we cannot readily and quickly provide you with a replacement. We will return repaired products at our expense, but if we determine there is no defect, or that the defect resulted from causes not within the scope of our warranty, then you must bear the cost of returning the product.

The warranty gives you specific legal rights and you may also have other rights which vary from state to state.