# **AUTDER**<sup>®</sup>

## CORDLESS SMART PORTABLE BRUSHLESS CHAINSAW RECHARGEABLE LITHIUM ION BATTERY



### 21 WAX Make Sawing Wood Easier Brushless Cordless Chainsaw

Instruction Manual/Bedienungsanleitung/Manuel d'instructions/ Manuale di istruzioni/Manual de instrucciones/取扱説明書/说明书

### DE

#### **Definition: Safety Alert Symbols and Words**

This instruction manual uses the following safety alert symbols and words to alert you to hazardous situations and your risk

Danger: Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

Warning: Indicates an imminently nazardous situation which, if not avoided, will result in death or serious injury.

Warning: Indicates a potentially dangerous situation that, if not avoided, could result in death or serious injury.

CALITION I. It is a potentially dangerous situation that, in not avoided, could result in death of serious injury.

CAUTION: Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

EN

DE

FR

JP

ZH

(Used without word) Indicates a safety related message.

NOTICE: Indicates a practice not related to personal injury which, if not avoided, may result in property damage.

#### CORDLESS SMART PORTABLE BRUSHLESS CHAINSAW

#### Introduction



Thank you for purchasing the wireless, intelligent and portable brushless electric chain saw of AUTDER, making the sawing easier and life more enjoyable.

#### **Application Scenarios**

The product is appliable to horticultural pruning, shrub pruning, twig pruning and small wood cutting. It is widely applied in the garden, park, farmland, expressway, pasture, orchard and greenhouse, etc.

Note: Do not apply the chain saw to the unintended purposes. For example: Do not cut the metal, masonry or non-wood building materials with the chain saw. It may cause danger when it is applied to the unintended operation.

Warning: Please read the Instructions carefully before using, and strictly observe all instructions and safety precautions. Non-conformity of warning and instructions may lead to electric shock, fire, and/or serious injuries.



Notes: In addition, please keep the manual properly for future reference.

Tips: When the chainsaw is cutting wood with high density or large volume, the instantaneous current of the chain saw is relatively large. Considering the safety of use, the protection program inside the battery pack may be activated to stop the chain saw from working. The battery pack needs to be reactivated at this point.

How to reactivate the battery pack:

\*The battery pack can be reactivated by connecting to the charger for charging.





Tips: If you have any questions or suggestions of AUTDER, contact us, please.

Let's Stay in Touch.

Support Émail: AUTDER2020@outlook.com

Safe warning and personal safety protection of brushless electric chain saw

Warning: Risks of unsafe operation

a) Do not modify or attempt to repair the brushless electric chain saw by yourself, be sure not to dissemble, weld, or modify

the electric chain saw or its accessories.
b) Use only the included accessories, using other accessories may be dangerous.

c) Be highly vigilant when operating power tools. Do not use them in humid conditions or in the presence of flammable liquids or gases. Pay attention to your actions. Do not use power tools under the influence of fatigue or drugs or alcohol. This chain saw is a professional electric tool. Keep children away from this tool. When inexperienced operators use this tool, they need to be supervised. EN

DE

FR

JP

ZH

DE

FR

ZH

#### Warning: Fire danger

- a) The chain saw gets hot during operation (it is normal) and it shall be stored after cooling.
- b) Note: When it is not used, place the tool side on the stable surface to prevent from tripping or falling. Store it in the box AFAP.



#### Note: Notes to personal safety protection

- a) Forbid to touch the chain and guide plate with hands or other parts. When operating the electric tools, temporary negligence may cause serious personal injuries.
- b) Use personal protective equipment. Be sure to wear protective equipment, such as goggles, dust masks, non-slip safety shoes, safety helmets, etc. If necessary, use hearing protection equipment under appropriate conditions. Reduce personal injury caused by flying debris or accidental contact with the saw chain.
- c) Dress appropriately. Do not wear loose clothing or jewelry. Keep hair, clothes, and gloves away from chains and guides. Loose clothes, jewelry, long hair, gloves, etc. may be caught by the chain to prevent accidents.
- d) To prevent the accidental startup, be sure that the forward and reverse switching button of the chain saw is in the middle locking state after connecting to the battery pack and before carrying the electric tools.



Warning: If you put your fingers on the switch or carry a power tool after turning on the switch, it will cause serious accidents.

- e) Before starting the power tool, make sure that each accessory you need is firmly locked in place, otherwise, it may cause personal injury.
- f) Do not extend the chain saw too far during operation, and always maintain the correct footing, control the chain saw on a fixed, firm, and horizontal surface. Slides or unstable surfaces (such as ladders) may cause the chain saw to lose balance or control, resulting in personal injury.
- g) When the chain saw is working, all parts of the body should be kept away from the saw chain. Before starting the chain saw, make sure that the saw chain is not touching anything. A little carelessness when operating the chain saw may cause your clothes or other objects to be entangled in the chain, resulting in personal injury.
- h) Always hold the handle of the chain saw with your right hand, look for a support point with your left hand, or hold the handle of the chain saw with both hands, other operations will increase the risk of personal injury.
- i) When cutting is under tension, pay attention to the kickback of the chain saw. When the tension of cutting wood is released, the chain loaded by the chain saw may hit the operator or cause the chain saw to lose control.
- j) Reasons for kickback and prevention: When the front end of the guide plate or the blade of the chain touches the object to be cut, if it is closed during cutting, or the saw chain is clamped by wood during cutting, kickback may occur. In some cases, the blade of the chain may cause a sudden reverse reaction when it touches the object to be cut, pushing the guide plate up and back towards the operator. Any of these reactions can cause you to lose control of the chain saw, resulting in serious personal injury. Don't rely solely on the safety devices built into the chain saw. As a chain saw user, you should take several steps to ensure that your cutting work does not cause accidents or injuries. This can be avoided by taking the following appropriate precautions:
  - Keep a firm grip, wrap your thumb and fingers around the chain saw handle, find a support point with your left hand, and
    position your body and arms to resist recoil. If proper precautions are taken, the recoil force can be controlled by the operator.
  - Don't overextend your arms, don't exceed the height of your shoulders. This helps prevent accidents and enables better control of the chain saw in the event of an accident.
  - Only use guides and chains specified by the manufacturer. Incorrect guide plates and chains may cause the chain to break or kickback.
  - 4. Never start cutting from the tip of the wood.
  - 5. Start cutting while the chain is running.
  - Always sharpen the blade of the chain correctly.
  - 7. An appropriate amount of chain lubricant can be applied to the place where the chain is in direct contact with the guide plate.
  - 8. When pruning branches, take care to prevent the chain saw from contacting other branches.
- k) Do not operate power tools in a flammable and explosive environment, such as an environment with flammable liquid, gas, or dust. Because the motor generates heat during high-speed operation, it may ignite dust or smoke and present an explosion hazard.
- I) When operating power tools, keep children and bystanders away.
- m) Do not expose power tools to rain or humid environment .
- If the switch cannot be opened and closed, do not use electric tools. Any power tool that cannot be controlled by a switch is dangerous and must be repaired.



EN DE

FR

ZH

o) Warning: Please disconnect the battery pack of the power tool before making any adjustments, changing accessories or storing the power tool. This preventive safety measure reduces the risk of accidentally starting the power tool.

p) Be especially careful when working on sloping ground; shaking tree trunks and branches constitutes a potential hazard.

 q) Clean the area to be cut, remove sand, stones, nails, wires, and other foreign objects. Foreign objects can damage the guide plate and the chain and may cause a risk of kickback. EN

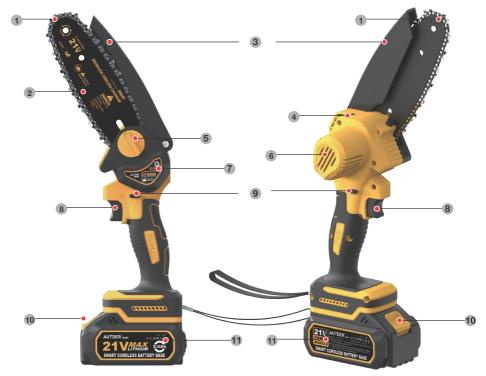
DE

FR

JP

ZH

- r) Cut wood blocks individually, not in bundles or piles.
- JP s) Chain saws cannot be used for commercial purposes.
  - t) Dot not overload the chain saw.
  - u) Keep the work area clean and well-lit. Cluttered or dark areas can cause accidents .



- 1 Chain
- 2 Guide plate
- 3 Protective flap of chain
- 4 LED
- 5 Fixed protective cover of nut
- Heat dissipation hole
- 7 Protective cover of main part
- 8 Starting switch

#### Product list:

- 1 x main part
- 1 x battery pack
- 1 x chargers
- 1 x chain
- 1 x guide plate
- 1 x protective flap of chain
- 1 x M6 socket wrench
- 1 x cross screwdriver
- 1 x instructions
- 1 x strap
- 1 x lubricating oil
- 9 Forward and reverse switch button (three gears: toggle left --- forward, toggle right --- reverse, middle gear --- lock)
- 10 Battery pack release button
- 11 Wireless battery base

FR

ZH

#### Operating manual of the wireless and brushless electric chain saw

I . Product specifications and parameters: Product size: 6.1\*4.5\*17.1Inches /155\*115\*435mm

Product weight: 2.76Pounds/1.25kg

Product material: Nylon, TPU, ABS (fireproof), silicone JP No-load current: <5A, working current of printed circuit board ≤70mA sleeping current ≤1mA.

Chain: 1/4.043"40E Chain speed: 6M/S Guide plate size: 6 inch Plus Battery pack: 2.0Ah LED floodlight: 10LM Input voltage: 21V 1A USB output voltage: 5V/2.1A

Rated voltage: 21V Rated power: 550W

Over-temperature protection: When the temperature exceeds 120°C, the brushless electric chain saw will automatically shut down and can continue to work after cooling down.

EN

DE

FR

JP

ZH

#### || . Operation of the wireless and brushless electric chain saw:

Note: The battery pack is not fully charged when taken out of the carton, please fully charge it before using it.

Warning: To reduce the risk of serious personal injury, please disconnect the power and turn off the device before making adjustments or disassembling/installing accessories.

Danger: Unexpected start may cause serious personal injury.

#### 1. Installation accessories

#### 1.1 Install the protective flap of the chain

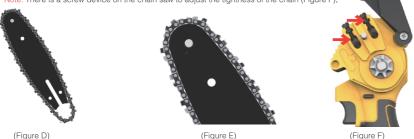
- a. Cylinder nuts and fastening screws are installed as shown in the figure (Figure A).
- b. The end of the spring is inserted into the small hole of the main body as shown in the figure and then rotated 90° to fix it. (Figure B).
- c. Tighten screws. (Figure C)



#### 1.2 How to install the chain

1.2.1 Install the chain into the guide plate first, and the middle guide teeth just fit into the guide groove of the guide plate (as shown in Figure D). When the chain saw is rotating forward, the chain rotates counterclockwise. Note: The blade of the chain should be forward (Figure E).

Note: There is a screw device on the chain saw to adjust the tightness of the chain (Figure F).





1.2.2 When installing the guide plate, please ensure that the screw for adjusting the tightness of the chain fits into the positioning adjustment hole at the end of the guide plate.

ΕN

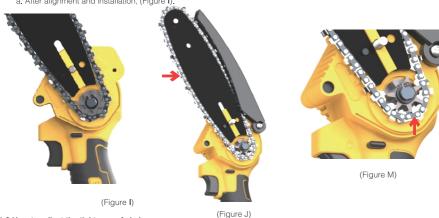
DE

FR

JΡ

ZH

a. After alignment and installation, (Figure I).

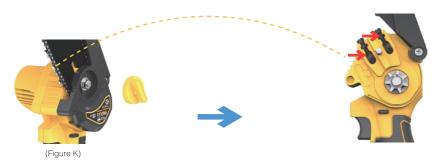


#### 1.3 How to adjust the tightness of chain

- 1.3.1 The adjustment standard is to lift up the chain in the middle of the guide plate by hand, without exposed guide teeth (Figure J).
- 1.3.2 When tightening is needed, please adjust the tightening screw (cross screwdriver) clockwise to tighten the chain. When you need to loosen it, adjust the tightening screw (cross screwdriver) counterclockwise to loosen the chain.



NOTE: Screw for tightness adjustment(Figure K).



- 1.3.3 Note: The new chain will be stretched early in use. Please check and adjust to the proper tension frequently, because the loose chain is easy to derail, causing the chain and guide plate to wear out quickly.
- 1.3.4 The rightmost chain must be attached to the sprocket (Figure M). After installation, please check again.

#### 1.4 Install the chain saw protective cover

- 1.4.1 Please install the accessories in order (Figure N).
- 1.4.2 Please tighten the M6 nut with a socket wrench, and then put on the nut to tighten the protective cover. Without a socket wrench, the nut tightening protective cover can also be used temporarily. (Figure O)



Warning: Insert the battery pack only after the product is fully installed, and make sure that every accessory you need is firmly locked in place. Otherwise, it may cause personal injury. (Figure P)

ΕN



#### 2. Installing and removing the battery pack.



Note: For best results, please make sure that the battery pack is fully charged, find the battery pack, press the battery pack power button, and see if it shows full power.

- a) Install the battery pack on the bottom of the electric chain saw, align the battery pack with the guide rails in the battery port of the electric chain saw, press the release button, and then slide it into the port (as shown in Figure R) until the battery pack is firmly locked It's tight, and you can hear a "click" to ensure that the wireless battery pack will not come off. (Figure S).
- b) To remove the wireless battery pack from the electric chain saw, press the release button, and then forcefully pull the battery pack out of the tool handle.

Note: The electric chain saw will not charge the battery while it is working .

#### 3. Power on and how to use

- 3.1) After the power is turned on, the LED light on the chain saw will temporarily light up. When the equipment is not running, the electric chain saw will enter sleep mode after 2 minutes.
- 3.2) If you need to use it, please make sure that all accessories are firmly locked in place and the battery pack is locked before starting the chain saw.
- 3.3) Before turning on the chain saw switch, the chain saw forward and reverse switch button has three gears: toggle left-forward (figure T), move right-reverse (figure U), middle gear-Locked (Figure V), the default is the middle gear-locked state (Figure V). The normal use state is: toggle to the left-forward (Figure T).



- 3.4) Note: When the chain is stuck in the middle of the wood during use, the reverse mode can be activated to make the chain saw separate from the stuck object.
- 3.5) Note: The chain saw start switch has its own speed regulation and automatic braking functions, which can better protect the personal safety of the operator.
  - ① Autobrake: Press the starting switch, the chain saw will work immediately. Release the switch completely, the chain saw will stop immediately.
  - 2) Speed adjustment: According to the strength of the operator pressing the start switch, the running speed of the chain saw is controlled. The lighter the pressing force, the slower the chain saw runs, and the heavier the pressure, the faster the chain saw running speed. (Figure W)



Note: One key to wake up the battery pack: Press the battery pack power button to display the power level of the wireless battery pack. (Figure Y)

- 1). Check the real-time power.
- 2). Activate the USB output to supply power to other electronic products. Output voltage: 5V 2.1A





EN

DE

FR

JP

ZH

(Figure W) (Figure Y)

3).Battery capacity display level of the wireless battery base:

Battery Capacity Display Level	Remaining Capacity	Current Voltage	Current State of Indicator Lamps	Remark
	<25%	<16.5V	One lamp flashes	Please Charge
	25%	165-17.5V	-	Please Charge
	50%	17.6-18.5V		Please Charge
	75%	18.6-19V		Can be charged
	100%	>19V		Fu <b>ll</b> energy

4) When the charger detects that the battery pack is too hot or too cold, it will automatically start the hot/cold group delay and suspend charging until the battery pack reaches an appropriate temperature, the charger will automatically switch to the charging mode. This function ensures the maximum service life of the battery pack.



- 5) Longest life and best performance can be obtained if the battery pack is charged when the air temperature is between 65 °F and 75 °F (18 ° – 24 °C). DO NOT charge when the battery pack is below +40 °F (+4.5 °C), or above +104 °F (+40 °C). This is important and will prevent serious damage to the battery pack.
- 6) The charger and battery pack may become warm to the touch while charging. This is a normal condition, and does not indicate a problem.
- 7) To facilitate the cooling of the wireless battery base, please avoid putting the charger or the wireless battery base in a warm or wet environment.

#### III. Storage recommendations of electric chainsaw



- 1.It is best to store the electric chain saw in a cool and dry place, away from direct sunlight and overheating or cold.
- 2. In order to ensure the service life of the equipment and prevent its degradation, please store it in a fully charged state
- 3. When not in use, charge and discharge the battery. Do not turn on the power switch when storing.
- 4. If the product is not used for a long term, please fully charge the battery pack every 3 months to ensure the maximum service life of the battery pack.
- 5. Store idle power tools out of the reach of children. Do not let people who are unfamiliar with power tools or those who are not familiar with these instructions operate power tools. Power tools are dangerous in the hands of untrained users.

#### IV. Cleaning and maintenance of brushless electric chain saw

- 1. The charger and wireless battery pack are not repairable
- 2. Keep knives sharp and clean correctly. Before any maintenance or cleaning of the power tool, please remove the battery from the power tool and store the battery in a safe place. Wear hand protection when touching the chain blades. Touching the blade with bare hands increases the risk of injury.
- 3. It must be cleaned and maintained regularly. Check whether the moving parts are misaligned or blocked, whether the parts are broken, and any other conditions that may affect the operation of the power tool. If damaged, repair the power tool before use. Many accidents are caused by poorly maintained power tools. This ensures the long-term reliable operation of the power tool.
- 4. Clean the chain carefully after each use. Wipe the chain with lubricating oil and spray it with a metal protective spray.
- 5. After continuous operation, please remove the dust and other debris on the electric chain saw.



MANUFACTURER: SHENZHEN CHENGUO TECHNOLOGY CO. LTD 6F, YIKANG BUSINESS BUILDING, 33 HUARONG ROAD, DALANG STREET, LONGHUA DISTRICT, SHENZHEN, GUANG DONG, CHINA.

MADE IN CHINA Model:AD-806 If you have any questions or comments of this or any AUTDER tool, please contact us.

Let's Stay in Touch. Support Email: AUTDER2020@outlook.com

