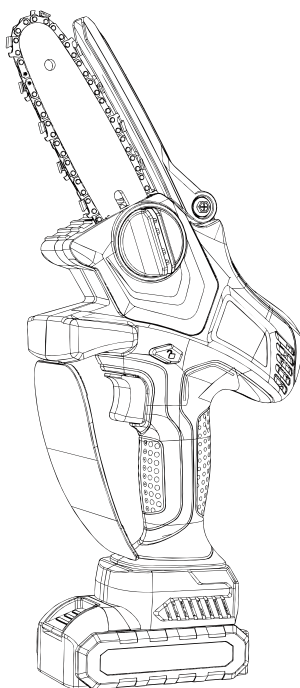




20V Brushless 6" Pruning Saw



OWNER'S MANUAL

RLC20HS

IMPORTANT: Please make sure that the person who is to use this equipment carefully reads and understands these instructions before operating.

Save this manual for future use



Thank you for choosing our equipment. It was carefully engineered to provide excellent performance when properly operated and maintained.

Please read this entire manual before operating the equipment. It instructs you on how to set up, operate, and maintain your equipment safely and easily. Ensure that you and any other persons operating the equipment carefully follow the recommended safety practices at all times, as failure to do so could result in personal injury or property damage.

All information in this manual is relevant to the most recent product information available at the time of printing. Review this manual frequently to familiarise yourself with the equipment, its features, and operation. Please note that this Owner's Manual may cover a range of product specifications for various models. Characteristics and features discussed and/or illustrated in this manual may not be applicable to all models. We reserve the right to change product specifications, designs, and equipment without notice and without incurring obligation.

Customer Support

Before initiating a product return, kindly reach out to our dedicated Customer Support Department at Bigger Boyz Toyz. We are here to assist you.

Phone: 02 4257 4787

Email: bbt@bbta.com.au

Warehouse: Unit 2/3 Delta Place, Albion Park Rail NSW 2527

If you have difficulty assembling the product or have any questions about the controls, operations, or maintenance of the equipment, please don't hesitate to get in touch with our Customer Support Department.

DIRECTORY

Warning	1
Specifications	1
Description of Important symbol	2
Accessory parts	3
Safety specification	4
• Precautions before operation	4
• Operation requirements	4
• Dress and protection requirements	4
Working environment requirements	5
• Surrounding environment requirements	5
• Machine condition requirements	5
• Safety instructions for guide plate	6
• Safety instructions for chain	7
Operation precautions	7
• Precautions for cutting	7
• Precautions for pruning	8
• Precautions for logging	8
• Rebound warning	9
• Pull warning	10
• Thrust warning	10
Cleaning, maintenance and repair	11
Inspection items before operation	11
Assembly and removal of Chain saw	12
• Assembly of guide plate and saw chain	12
• Removal of guide plate and saw chain	13
• Tension of saw chain	13
• Add lubricating oil	13
Inspection of chain saw	14
• Inspection of sprocket	14
• Inspection of guide plate	14
• Detection of lubricating oil output	15
• Detection of startup	15
Operation of chain saw	16
• Operation of timber making	16
• Pruning of branches	16
• lumbering	17
Cleaning of chain saw	18
Maintenance	18
General safety warning for electric tools	19
Safety warning of rechargeable chain saw	21
Operation warning to prevent rebound	21
After-sale service	22
Statement	22



Dear users, first of all, thank you for choosing our high quality products! In order to use this product better, please read the instructions carefully before use, and keep this manual for future reference. If you have any questions in the process of using, please contact us in time. We have professional staff to answer your questions. I wish you a happy use!

WARNING



Please read all safety warnings and instructions carefully. Failure to comply with the relevant warnings and instructions may lead to electric shock, fire or other serious injury. Please keep all warnings and instructions for future reference. When using the pruning saw, please ensure that the fingers and other parts of the human body are not within the working range of the chain saw. The operator shall bear the damage consequences caused by the operator's violation of the precautions.

SPECIFICATION

Model	RLC20HS
Rated voltage (V)	21
Maximum power (W)	600
N.W. (kg)	1.3
Maximum sawing diameter (mm)	130 (6") / 110 (5")
Linear speed of saw chain (m/s)	8.8
Chain pitch (mm)	1/4
Number of teeth of drive sprocket (T)	6
Specification of lithium battery (V/Ah)	21/2.0

- The manufacturer reserves the right to change the specifications without prior notice
- Specifications and batteries may vary from country to country

SYMBOL

The symbols used in this tool are shown below. Please understand their meanings before using them



Read the manual



Do not let the tool get wet



Warning / danger



Prevent rebound



Keep away from fire



Don't discard it casually. It needs to comply with the garbage disposal regulations



Wear safety eyewear



Wear ear cover



Wear protective clothing



Wear antiskid boots



Oil can sign



Running direction of saw chain

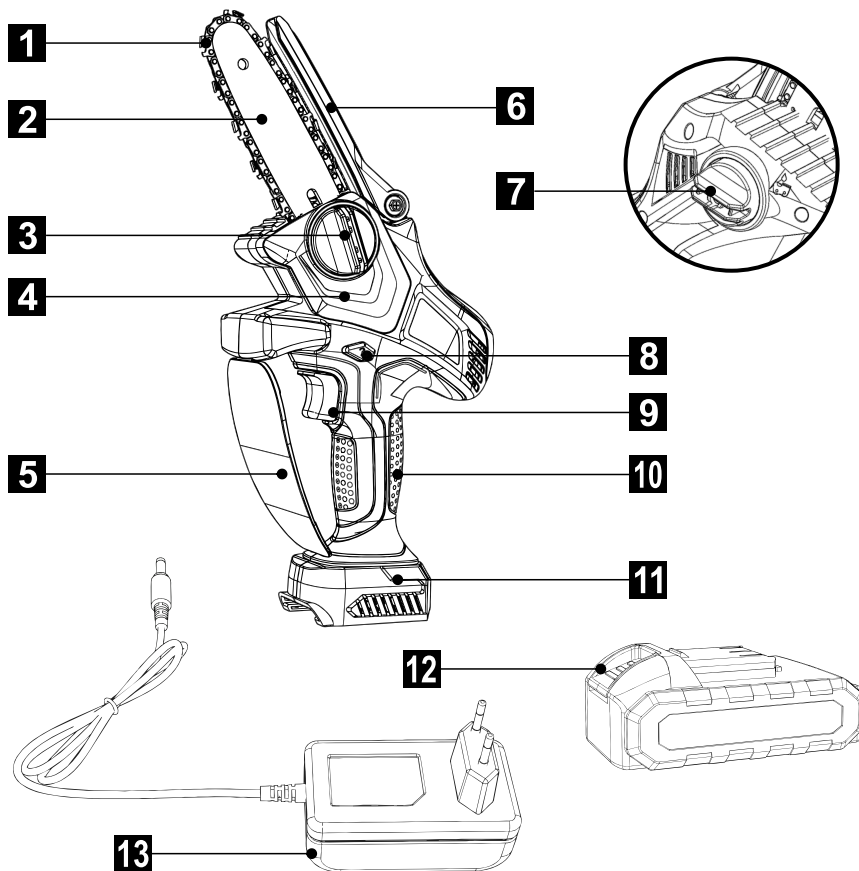


When the power cord is damaged or cut, please pull off the plug in time



Keep away from humid environment

ACCESSORY PARTS



- 1 Chain
- 2 Guide plate
- 3 Lock knob
- 4 Sprocket cover plate
- 5 Protective plate

- 6 Chain guard
- 7 Oil tank cover
- 8 Self locking switch
- 9 Speed control switch
- 10 Main handle

- 11 power input interface
- 12 battery pack
- 13 charger

SAFETY SPECIFICATION

Application scope of the tool: sawing, pruning branches and cutting some small diameter trees. It is suitable for gardens and orchards.

• Precautions before operation

1. The use of battery packs and chargers that are not marked or approved by the manufacturer may cause fire or explosion accidents, which may cause serious or fatal injuries and property losses.
2. The use of chain saw, battery pack and charger beyond their design specifications will cause serious or fatal injury and property damage.

Battery pack instructions:

Please refer to the battery pack and charger instructions in the battery pack

Charger instructions:

Please refer to the battery pack and charger instructions in the battery pack

• Operator requirements



WARNING!

If the user does not read and understand the manual, it is forbidden to use and contact the chain saw, battery pack and charger. Otherwise, it will cause serious injury or death to users or other people. Read the manual to make sure you understand it and save it for future reference.

Read the manual to make sure you fully understand it and save it for future reference.

Ensure that users fully fulfill the following requirements:

1. When the user operates the chain saw, uses the battery pack and the charger, he must ensure that his physical condition, mental state and psychological state are in normal condition, which is suitable for the operation of the device. If the user has the above restrictions, please use it under the guidance of the guardian or the person in charge.
2. The user must be an adult.
3. When using the device for the first time, the user should make sure that after receiving the product dealer's instructions or professional operation instructions, he can operate the device only after carefully reading and understanding the contents.
4. The user shall not use the device under the influence of alcohol or drugs.

Users who use the chain saw for the first time must first carry out necessary sawing exercises on the sawing frame or bracket.

• Dress and protection requirements

WARNING!

1. Dress appropriately, do not wear loose clothes or accessories, keep gloves and hair away from moving parts, loose clothes, accessories or long hair may be involved in moving parts.
2. There may be debris or other sawdust thrown out when the chain saw is working, which may cause physical injury.

- 
- 
- a. Please wear goggles when operating
 - b. It is recommended to wear a protective mask
 - c. Long protective clothing is recommended
 3. Falling objects can cause head injuries.
 4. Dust and sawdust will be raised during operation. Dust and sawdust may cause air blockage or allergic reaction.
 5. Improper clothing may hang on branches and branches of trees, which may hinder and affect the use of chain saws. Improper dressing of users can cause serious injury.
 - a. Please wear tight fitting clothes
 - b. Please take off the scarf and jewelry
 6. Users may get close to the running saw chain when using the chain saw, which will cause serious injury to users. Please wear pants with cutting protection level, which is defined by the speed of chain saw.
 7. Users may hurt themselves when sawing wood. Especially when cleaning the machine and chain, the hand will touch the chain and other sharp edges. Please wear protective gloves when working.
 8. Improper shoes may cause slipping or falling. If the saw chain is touched after falling, it may cause injury to the user. Please wear chain saw protective boots. The protection level of protective boots is defined according to the speed of chain saw.

WORKING ENVIRONMENT REQUIREMENTS

- Surrounding environment requirements

1. Bystanders, children and other animals do not realize that sawdust or other debris flying up while the chain saw is working poses a threat to them. Bystanders, children and animals may be seriously injured. Please keep bystanders, children and animals away from the work area.
2. The chain saw is not waterproof and may cause electric shock if used in rain or humid environment. The user will be injured and the chain saw will be damaged. Do not use the chain saw in the rain or wet environment.
3. The motor of the chain saw may produce sparks. In the environment with combustibles or explosives, sparks may cause fire or explosion. These situations can lead to serious injury or death and property damage. Do not work in the environment with combustibles and explosives.

- Machine condition requirements

A chain saw is safe if:

1. The chain is not damaged
2. The chain saw is clean and dry
3. The handle of the chain saw is intact
4. The chain saw trigger switch operates normally
5. The control program works normally and has not been modified
6. The chain of chain saw is filled with lubricating oil

7. The depth of sprocket tooth groove matched with chain should not exceed 0,5mm
8. The assembly of guide plate and chain fully meets the guidance requirements of this manual
9. The guide plate and chain are well assembled
10. Normal chain tension
11. All use original accessories
12. Normal assembly of accessories



WARNING!

If the product no longer meets the safety requirements, the parts can not play their due functions or the safety mechanism can not work normally, these conditions will lead to serious or fatal injury.

1. Only a good chain saw can be used. If the chain saw is dirty or wet, clean and dry it
2. Do not modify chain saw, such as guide plate and chain
3. If the control system does not work properly, do not use the chain saw
4. Only use accessories and accessories provided by the original factory
5. Please install the guide plate and chain in strict accordance with the instructions
6. Please refer to the manual for the installation of accessories
7. Don't put anything in the chain saw

- **Safety instructions for guide plate**

The guide plate can be used safely if it meets the following conditions:

1. All functions of the guide plate are in good condition
2. The guide plate is not deformed or incomplete
3. There is no obvious change in the groove depth of the guide plate
4. The guide rail is smooth without burr
5. There is no shrinkage or cracking in the groove of guide plate



WARNING!

If the guide plate is not in a safe state, the guide plate can not be well matched with the chain. There is a risk of the chain jumping out of the guide plate, which can cause serious or fatal injury.

1. Only use undamaged guides
2. If the guide groove is less than the minimum depth, replace it with a new one
3. After operating the chain saw, please remove the garbage and debris from the guide plate
4. If you have any questions, please contact the dealer

- Safety instructions for chain

The chain can be used safely if it meets the following conditions:

1. The chain is not broken
2. The edge of chain blade is sharp
3. The cutting depth of the cutting edge of the chain cutter head conforms to the description of the service mark
4. The cutting edge length of the cutter head meets the grinding standard



WARNING!

Parts and accessories can not play their due functions if they fail to meet the safety standards, and the safety devices will fail, which will lead to serious personal injury and even death.

1. Do not use damaged chains
2. Please grind the chain cutter head according to the standard indicated in the manual
3. If you have any questions, please contact the dealer

OPERATION PRECAUTIONS

- Precautions for cutting



WARNING!

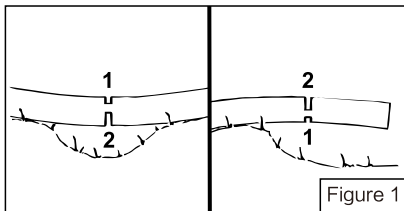
1. In some specific cases, the operator may not focus on the work, the operator may trip, fall and cause serious injury.
 - a. Keep calm and work in a planned way
 - b. Do not use chain saw in dim and low visibility environment
 - c. Please operate your own chain saw
 - d. Do not operate the chain saw higher than your shoulder
 - e. Watch out for obstacles
 - f. When operating the chain saw, please stand in a safe position and keep balance. If you need to work at height, use a lift or a safe scaffold
2. The running saw chain may hurt the user. Please do not touch the moving saw chain. Otherwise, the user may be seriously injured.
3. If the saw chain can not effectively cool down and re tension, the saw chain may jump out of the guide plate and lead to breakage. These can lead to serious injury and property damage.
 - a. Ensure that the saw chain is lubricated properly

- b. Please check whether the tension of the saw chain is proper during operation. If the saw chain is loose, please adjust it in time
4. If the chain saw starts abnormally or runs abnormally in the work, the chain may be in an unsafe state, which may lead to serious personal injury or property loss. Stop working immediately and contact the dealer.
5. The chain saw will vibrate when it is running.
 - a. Please wear gloves
 - b. Stop and rest in time
 - c. Consult your doctor if you are in poor health
6. If the running saw chain touches a hard object, it will produce sparks. Sparks can cause fire in combustible environment, which can cause serious injury and property loss. Do not use chain saw in combustible environment.
6. When the trigger is released, the chain saw will run for a period of time. It is necessary to wait for the chain saw to stop completely, otherwise it may cause serious injury.



WARNING!

If the chain saw is used with the tree tensioned, the guide plate may get stuck. Users will lose control of the chain saw, resulting in serious injury. (Figure 1)



First cut a force relief groove from the tight side (1), and then cut it into the loose side (2).

● Precautions for pruning

1. If the branches under the fallen tree are pruned first, the trunk will not be supported by the branches. Trees can roll, causing serious or fatal injuries.
 - a. Turn the main pole over and trim the branches on it
 - b. Do not stand on the log for pruning

● Precautions for logging

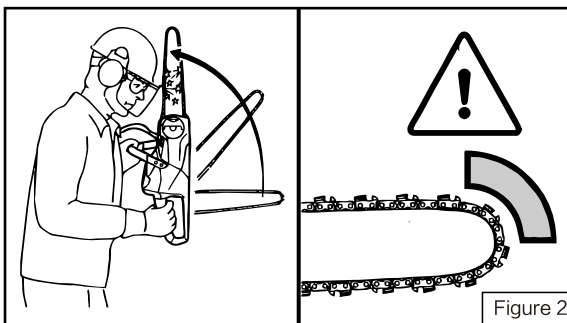
1. Inexperienced personnel are not allowed to approach dangerous logging sites, otherwise serious or fatal personal injury and property damage may result. Please don't cut wood alone.
2. Branches or other objects from a fallen tree may fall on an onlooker. May cause serious or fatal personal injury and property damage.
 - a. Judge the direction of the tree so that it can fall smoothly.
 - b. Bystanders, children and animals are not allowed to stay within 2.5 Tree lengths

- c. Observe the crown of the tree and the crown of the adjacent tree to ensure that there is no interference from the branches when the crown falls
3. When the tree falls, the trunk may break or spring towards the operator. May cause serious or fatal personal injury.
 - a. Plan your escape route around you
 - b. Observe the direction of the fallen tree and escape to the planned escape route
 - c. Don't go uphill
4. Obstacles in the workplace or escape route will hinder the escape. People fleeing may fall, causing serious or fatal injury.
 - a. Clear the work area and escape route.
5. If there is a fixed hinge or stable rope on the trunk, the tree may fall uncontrollably and prematurely, which will cause serious or fatal injury and property loss to the operator.
 - a. Do not use hinges
 - b. Finally, use the stabilizing rope
 - c. If the tree falls ahead of time, please give up logging and follow the escape route
6. When cutting, if the head of the guide plate touches an object or the wood clamps and extrudes the chain, it may cause rebound. Sometimes, when the head of the guide plate touches an object, it will form a sudden reaction force, which will spring up the guide plate and rush to the operator, causing injury to the operator.
7. If the direction of the tree falling is uncontrollable or falls on top of other trees, and the operator can not complete the logging operation in a controllable way, the logging operation should be stopped and a suitable vehicle should be selected to pull down the tree with a rope.

- Rebound warning

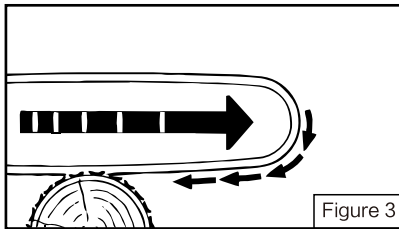
The following conditions may cause the chain saw to rebound:

1. The guide plate head of the running chain saw contacts a hard object or emergency brake.
2. The head of the running chain saw guide is touched.



- Pull warning

When the guide plate is used to cut from top to bottom, the direction of the chain saw pulling force is opposite to that of the operator.

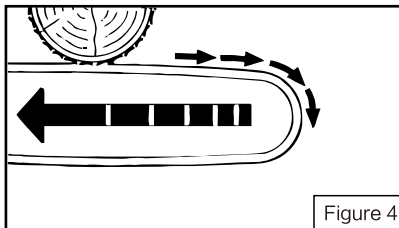


If the running chain saw contacts with a hard object and is clamped, the lithium chain saw will suddenly break away from the operator, and the operator will lose control of the chain saw, causing serious or fatal injury.

- Grasp the handle of the chain saw
- Operate the chain saw as described in the manual
- Keep the guide straight down
- Please cut at full speed

- Thrust warning

When the guide plate is used to cut from bottom to top, the thrust direction of the chain saw is towards the operator.



If the running chain saw contacts with a hard object and is clamped, the lithium chain saw will suddenly break away from the operator, and the operator will lose control of the chain saw, causing serious or fatal injury.

- Grasp the handle of chain saw with both hands
- Operate the chain saw as described in the manual
- Keep the guide straight down
- Please cut at full speed

CLEANING, MAINTENANCE AND REPAIR

1. In the state of cleaning, maintenance or repair, if the battery pack is not disconnected from the tool, the chain saw may start suddenly, resulting in serious personal injury and property loss.
 - a. Cut off the power
 - b. Remove the working head of the chain saw
 - c. Remove guide plate and chain
2. Corrosive cleaning agents, high-pressure cleaning equipment or sharp cleaning tools may damage chain saws, guides, chains, battery packs and chargers. If the chain saw, guide plate, chain, battery pack and charger cannot be cleaned in the correct way, the relevant parts may no longer function as they should, or the safety device may no longer function, which can cause serious injury.
 - a. Clean the chain saw, guide plate, chain, battery pack and charger according to the instructions.
3. If the chain saw, guide plate, chain, battery pack and charger can not be cleaned and maintained in the correct way, the relevant parts may no longer function as they should, or the safety device may no longer function, which will lead to serious injury.
 - a. Don't try to repair chain saws, battery packs, chargers
 - b. If the chain saw, battery pack and charger need maintenance, please contact the dealer in time
 - c. Maintain the guide plate and chain as described in the manual
4. When cleaning and maintaining the chain saw, the user may be injured by the sharp blade, which may cause personal injury.
 - a. Please wear scratch resistant gloves

INSPECTION ITEMS BEFORE OPERATION

Please check whether the following items are normal before operation:

1. Ensure that the following parts are in a safe condition:
 - a. Chain saw
 - b. Guide plate
 - c. Chain
 - d. Battery pack
 - e. Charger
2. Check the battery pack
3. The battery pack should be fully charged
4. Cleaning chain saw
5. Install the guide plate and chain correctly and tension the chain
6. Add lubricating oil
7. Check the control system
8. If you do not understand the above operation, please do not use the chain saw and contact the dealer as soon as possible

ASSEMBLY AND REMOVAL OF CHAIN SAW

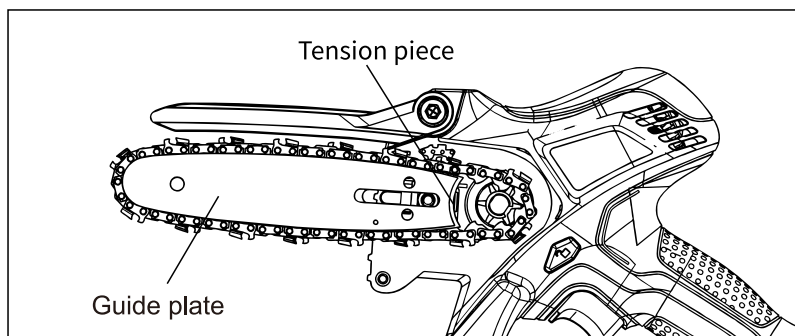
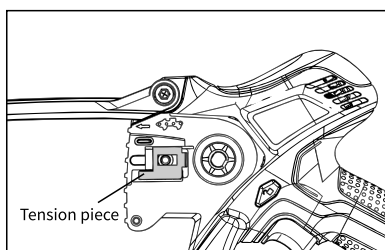
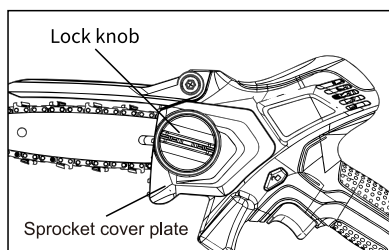
Be sure to cut off the power when doing the following operations!

- Assembly of guide plate and saw chain

The specifications of guide plate, chain and sprocket have been listed in the parameter table (see page 1)

1. Turn off the chain saw and pull out the battery pack.
2. Turn the locking knob counterclockwise until the sprocket cover can be removed.
3. Remove the sprocket cover.
4. Put the chain into the groove of the guide plate.
5. The direction of the cutting edge refers to the arrow mark on the main body of the chain saw. Place the guide plate on the main body of the chain saw and push the guide plate back against the tension piece until the chain can be stuck on the sprocket.
6. Cover the sprocket cover and tighten the locking knob.

Note: both sides of the guide plate can be used. The marked one may be on the front or on the back.



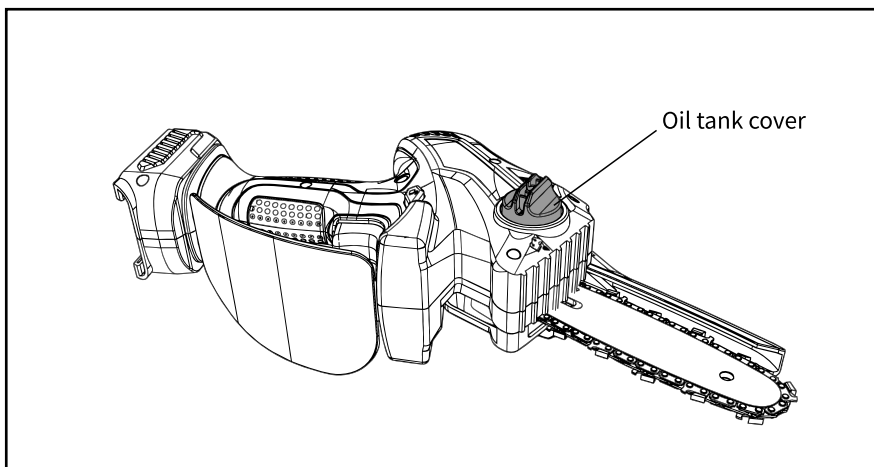
- Removal of guide plate and saw chain

1. Turn the locking knob counterclockwise until the sprocket cover can be removed.
2. Remove the sprocket cover.
3. Make the guide plate push the tension piece slightly to loosen the chain.
4. Remove the chain and guide plate.

- Add lubricating oil

Chain oil can lubricate and cool the chain:

1. Turn off the chain saw and remove the battery pack.
2. Place the chain saw flat on a flat surface with the oil tank cover facing up.
3. Inject proper amount of lubricating oil into the oil tank.
4. Install the battery.
5. Start the chain saw, the multi-functional lubricating oil will be evenly distributed to all parts of the chain saw.
6. The chain is lubricated.



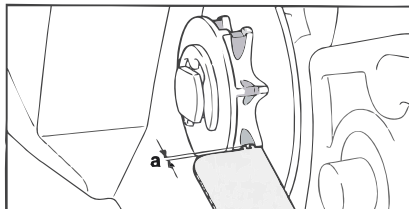
INSPECTION OF CHAIN SAW



Be sure to cut off the power when doing the following operations!

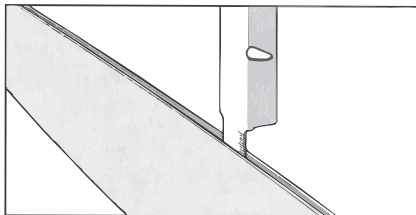
- **Inspection of sprocket**

1. Turn off the chain saw and pull out the battery pack.
2. Remove the sprocket protection cover.
3. Remove the guide plate and chain.
4. Use a depth gauge to measure the depth of the sprocket groove. (see Figure)
5. If the groove depth exceeds 0.5mm, please do not use the sprocket again, contact the dealer and replace the sprocket as soon as possible.



- **Inspection of guide plate**

1. Turn off the chain saw and pull out the battery pack.
2. Remove the sprocket protection cover.
3. Remove the guide plate and chain.
4. Measure the groove depth of the guide plate, and the groove depth shall refer to the guide plate traffic standard.
5. If the following conditions are met, please replace the guide plate in time:
 - a. The guide plate is damaged
 - b. The measured depth is less than the minimum allowable depth
 - c. The groove of chain saw is deformed and damaged
6. If you have any questions: please contact the dealer in time.

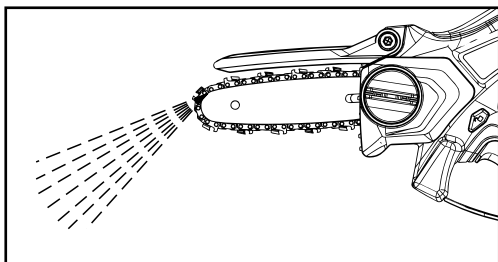


● Detection of lubricating oil output

1. Put the chain saw guide directly above the clean ground.
2. Start the chain saw. The chain oil is thrown out, and the oil can be clearly seen on the ground directly below the guide plate. It means that the chain saw oil is normal.

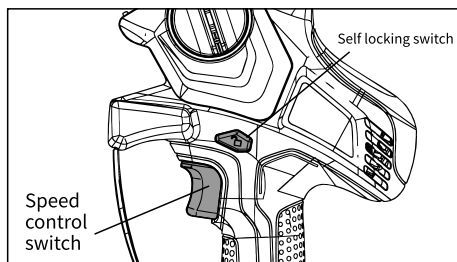
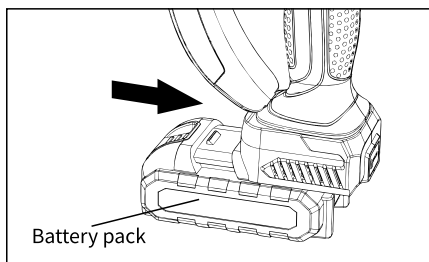
If no oil is seen:

3. Add chain oil.
4. Check the oil out of the chain again.
5. If the chain saw still doesn't spray oil. Do not use the chain saw that does not spray oil, please contact the supplier in time, chain oil is indispensable.



● Detection of startup

1. Please make sure that there are no children or other people within 50 feet (15 meters) of the workplace, while paying attention to whether there are animals around.
2. Insert battery pack: push the battery pack into the machine card slot until the battery pack is locked and clicks. Press the power switch for three seconds and hear a "drop".
3. Hold the handle by hand, press the self-locking switch with your thumb, and turn on the speed control switch, and the machine starts normally. (Note: the chain and guide plate cannot contact any object when starting the machine)



OPERATION OF CHAIN SAW

This machine is a single hand saw, suitable for single hand operation. There is only one handle. Do not approach any part of the body during operation

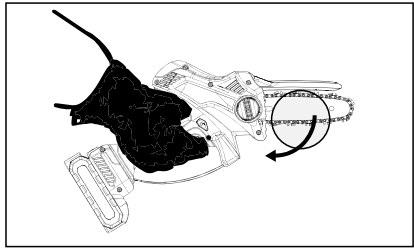
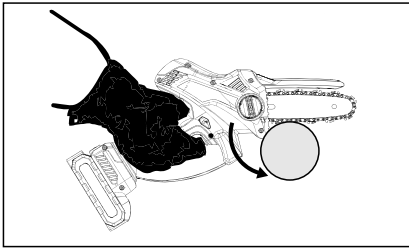
- Operation of timber making



WARNING!

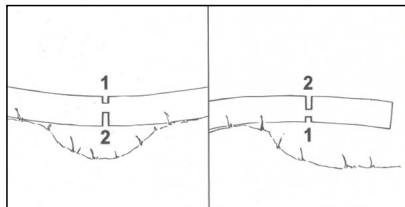
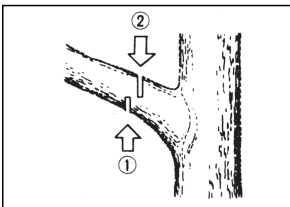
If the chain saw rebounds, the chain saw will spring to the operator. Can cause serious or fatal injury.

- When cutting, it is necessary to cut at full speed.
- Do not cut with the guide head.
- When cutting, keep the chain saw at full speed and the guide plate vertical.
- According to the width of the guide plate, the head of the guide plate shall expose the cut trees.
- Add the weight of the chain saw to the guide plate.



- Pruning of branches

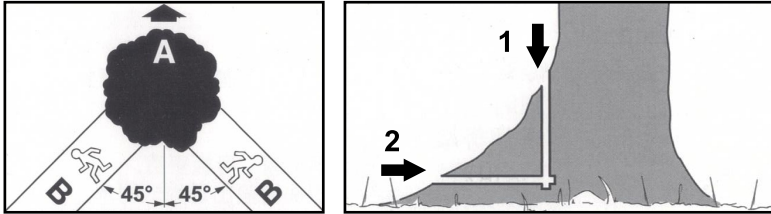
- Put the chain saw guide on the branch to be pruned.
- Chain cutting at full speed.
- Cut the branch with the upper part of the guide plate.
- Cut the branch with tension: first cut a small opening (1) on the loose side, and cut continuously under the tension.



- **lumbering**

1. Confirm escape route

- Escape route (b) is 45 "angle in the reverse direction of tree inversion (a).
- Make sure route (b) is free of obstacles.
- The top of the tree can be observed.



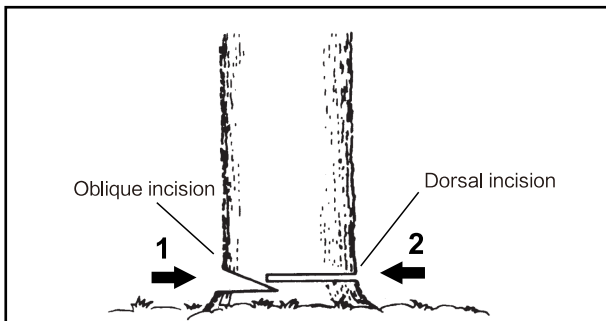
2. Root treatment of cut trees

- Clear obstacles under trees and work areas.
- Clean up the excess parts of the root of the tree.
- If the tree is too large, the root has a thick stump: cut vertically before cutting horizontally, and remove the excess part of the root (as shown in the figure above).

3. Cut out the oblique opening

The oblique cut determines the direction of the tree. Cut an oblique cut on the toppling side of the tree as close to the ground as possible. Cut the cut from 1 / 5 to 1 / 3 of the diameter of the trunk horizontally (do not cut the oblique cut too deep), and then cut the diagonal (as shown in the figure below).

- Cut off the whole width of the oblique incision
- The dorsal incision should be made at a height slightly higher than the baseline of the oblique incision. The dorsal incision must be absolutely horizontal, leaving about 1 / 10 of the stem diameter between the dorsal incision and the oblique incision.
- The fiber of the uncut part of the trunk acts as a hinge. Under any circumstances, do not directly cut the whole trunk, otherwise the direction of the tree dumping cannot be confirmed. Please insert a wedge on the back side incision in time.
- Only plastic or aluminum wedges can be used to keep the dorsal incision. Iron wedges are not allowed when the trunk is disconnected.



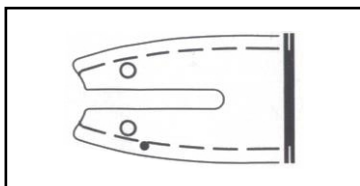
CLEANING OF CHAIN SAW

1. Cleaning of chain saw

- Turn off the chain saw. Cut off the power.
- Wipe the body of the chain saw with a wet cloth.
- Remove the sprocket guard.
- Clean the rim of the sprocket and the body with a wet cloth.
- Use a soft brush when cleaning the battery pack charger.
- Install the sprocket cover.

2. Clean the guides and chains

- Turn off the chain saw. Cut off the power.
- Remove the guide plate and chain.
- Use a soft brush to clean the rear slot of the guide plate.
- Use a soft brush to clean the chain.
- Install the guide and chain.



MAINTENANCE

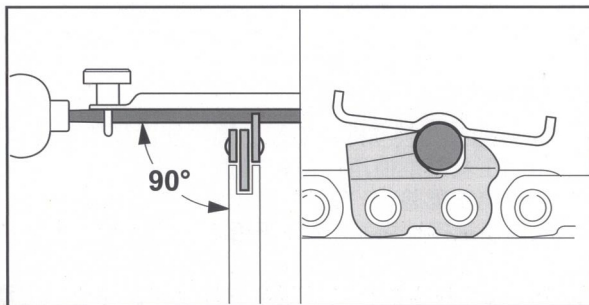
1. Maintenance of chain wheel

- The user is not allowed to remove the sprocket by himself.
- If the sprocket is damaged or defective: please do not use the device, contact the dealer in time to replace it.

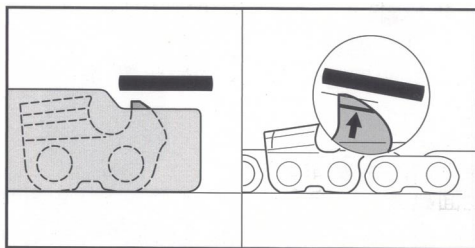
2. Maintenance guide plate: if there is burr on the edge of guide plate groove, please polish it in time.

3. Grinding chain

The chain should be polished with special round file instead of ordinary round file.



4. The file should only grind the saw blade forward in one direction, and do not make the file contact the saw blade when pulling back. First, grind the shortest saw blade, and the length of the saw blade is the reference dimension of other saw blades on the chain
 - a. The round file must match the pitch of the chain
 - b. Round file head from inside out
 - c. File in one direction according to the angle of the cutter head
 - d. Please keep the blade angle
 - e. Grind the small teeth of the file head according to the depth of the guide plate groove. (see Figure)
 - f. If you have any questions, please contact the dealer.



GENERAL SAFETY WARNING FOR ELECTRIC TOOLS



WARNING!

Read all warnings and instructions. Failure to follow these warnings and instructions can result in electric shock, fire or serious injury. Keep all warnings and instructions for reference. In all of the following warning terms, power tools refer to mains operated wired power tools or battery operated wireless power tools.

1. Workplace safety

- a. Keeping the workplace clean and bright, chaotic and dark can cause accidents.
- b. Do not operate electric tools in explosive environment, such as flammable liquid, gas or dust. Sparks generated by electric tools can ignite dust or gas.
- c. Do not operate power tools until children and bystanders have left. Inattention can cause the operator to lose control of the tool.

2. Electrical safety

- a. The plug of electric tool must match the socket, and the plug must not be modified in any way. For electric tools that need to be grounded, no change-over plug can be used. Unmodified plugs and matching sockets will reduce the risk of electric shock.
- b. Avoid human contact with grounded surfaces, such as pipes, fins and refrigerators. If your body is grounded, it will increase the risk of electric shock.
- c. Do not expose power tools to rain or humidity. Water entering power tools will increase the risk of electric shock.

- d. Do not abuse wires. Never use wires to handle or pull electric tools or pull out their plugs. Keep wires away from hot oil, sharp edges or moving parts. Damaged or twisted cords increase the risk of electric shock.
- e. When using electric tools outdoors, use external flexible cord suitable for outdoor use, which will reduce the risk of electric shock.
- f. If it is unavoidable to operate electric tools in humid environment, residual current operated protector (RCD) should be used, which can reduce the risk of electric shock.

3. Personal safety

- a. Keep alert, pay attention to the operation and keep awake when operating the power tools. Do not operate power tools when you are tired or have a drug, alcohol or treatment reaction. When operating electric tools, instantaneous negligence will lead to serious personal injury.
- b. The use of personal protective devices, always wear goggles, safety devices, such as dust masks, anti-skid safety shoes, safety helmets, hearing protection and other devices under appropriate conditions, can reduce personal injury.
- c. To prevent accidental starting, make sure that the switch is in the off position when connecting the power supply or battery box, picking up or carrying tools, and putting your finger on the switch with power on or inserting the plug when the switch is on may cause danger.
- d. Remove all adjustment keys or spanners before turning on the power tool. Spanners or keys left on the rotating parts of the power tool may cause personal injury.
- e. Don't stretch your hands too long. Always pay attention to your foothold and balance. In this way, the electric tools can be well controlled in case of accidents.
- f. Dress appropriately. Do not wear loose clothes or accessories. Keep clothes, gloves and hair away from moving parts. Loose fitting accessories or long hair may get involved in moving parts.
- g. If any devices are provided to connect with the dust removal equipment, make sure that they are well connected and properly used. The use of these devices can reduce the risk of dust.

4. Use of electric tools and precautions

- a. Don't abuse power tools. Use appropriate power tools according to the purpose. Choosing properly designed power tools will make your work more effective and safer.
- b. If the switch cannot turn on or off the power supply of the tool, the power tool cannot be used. Electric tools that cannot be controlled by switches are dangerous and must be repaired.
- c. Before any adjustment, replacement of accessories or storage of power tools. The plug must be removed from the power supply or the battery pack must be disconnected from the tool. This protective measure will reduce the risk of accidental starting of tools.
- d. Store unused power tools out of the reach of children, and do not let people unfamiliar with power tools or those who do not understand these instructions operate power tools. Power tools are dangerous in the hands of untrained users.

SAFETY WARNING OF RECHARGEABLE CHAIN SAW

1. When the chain saw is in the working state, all parts of the operator's body should keep a certain distance from the chain saw. Before starting the chain saw, make sure that the chain does not touch any objects. During the operation of the chain saw, even a moment of distraction can cause clothing or body to be involved in the chain.
2. Be sure to hold the back handle of the chain saw with your right hand and the front handle of the chain saw with your left hand. If you grasp the chain saw with both hands wrongly, it will increase the risk of personal injury. Therefore, do not grasp the rear handle with your left hand and the front handle with your right hand.
3. Because the chain may come into contact with hidden wires. When operating the tool, only the insulated handle can be grasped. When the chain contacts the live wire, the exposed metal part of the tool may also be charged. And make the operator get electric shock.
4. Please wear safety glasses and ear protection. It is recommended to further wear protective devices to protect the head, hands, legs and feet. Full wearing of protective clothing will reduce personal injury caused by splashing debris or accidental contact with the chain.
5. Do not operate the chain saw on the tree. Operating a chain saw on a tree may cause personal injury.
6. Be sure to stand firmly on a fixed, safe and level surface before operating the chain saw. Slipping or unstable surfaces, such as ladders, may cause loss of balance or loss of control of the chain saw.
7. When cutting the branch under tension, please be alert to rebound. When releasing the tension on the wood fiber, the elastic force on the branch may impact the operator or chain saw and cause it to lose control.
8. When cutting shrubs and saplings, be careful that slender materials may get stuck in the chain and strike themselves or cause imbalance.
9. Before carrying the chain saw, close the chain saw and hold the front handle tightly to keep a certain distance from the body. When transporting or storing the chain saw, be sure to cover the guide plate cover. Proper operation of the chain saw will reduce the possibility of accidental contact with the running chain.
10. Lubricate, tension chain and replace accessories according to instructions. Improper tensioning or lubrication of the chain may cause the chain to break or increase the possibility of rebound.
11. Keep the handle dry, clean and free of oil and grease. Greasy handle is easy to slip and lead to tool out of control.
12. For cutting wood only. Do not use the chain saw for any purpose other than its design purpose. For example, do not use chain saws to cut plastic, stone or non wood building materials. The use of chain saws for operations other than their intended use can lead to dangerous situations.

OPERATION WARNING TO PREVENT REBOUND

1. When cutting, if the head of the guide plate touches an object, the wood clamps or squeezes the chain, rebound may occur.
2. Sometimes, when the head of the guide plate touches the object, it will form a sudden reaction force, which will spring up the guide plate and rush to the operator.

- 
3. Squeezing the chain along the upper part of the guide may quickly push the guide back to the operator. Any of these reactions may cause the chain saw out of control and cause serious personal injury.
 4. Do not rely solely on the safety equipment fitted to the chain saw.
 5. As a chain saw user, you should take a variety of measures to prevent accidents or personal injury during cutting operation.
 6. Tool misoperation, incorrect operation steps or operation conditions will lead to rebound. It can be avoided by following the following precautions:
 - a. Keep a firm grip and hold the saw handle with both thumbs and the rest of the fingers. Adjust body and arm position to prevent rebound. If you follow the correct precautions, the operator can control the rebound force, please be careful.
 - b. Do not extend the tool too far and do not cut it higher than the shoulder. This will help prevent the head of the guide plate from touching the object and better control the tool in case of accident.
 - c. Please replace the guide plate and chain only with the replacement specified by the manufacturer. The use of unsuitable replacement guides and chains may cause the chain to break and / or rebound.
 - d. Maintain the chain in accordance with the manufacturer's grinding and maintenance instructions. Lowering depth and height can lead to frequent rebounds.

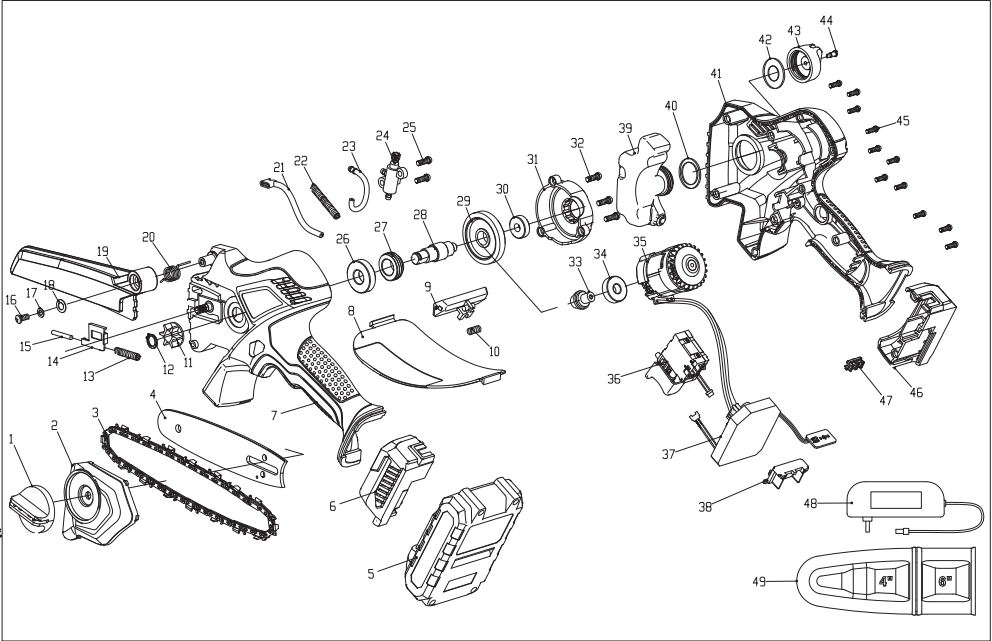
AFTER-SALE SERVICE

If you have any questions in the process of using, please contact us in time (see the next page for contact information). We have professional personnel to answer your questions and problems, and let professional maintenance personnel repair the electric tools with exactly the same replacement parts, so as to maintain the safety performance of the electric tools.

STATEMENT

**The company reserves the right to improve the technology of the products described in this manual. Please understand if there is any change!
If there is any discrepancy between the graphic image and the text description in this manual, please take the physical object as the standard!**

RCL20HS EXPLODED VIEW



No.	Description	Qty
1	Bar Cover Rotary knob	1
2	Bar cover	1
3	chain	1
4	bar	1
5	battery	1
6	left battery cover adaptor	1
7	left engine cover	1
8	Finger guard	1
9	Switch lever	1
10	Anti-self-locking spring	1
11	sprocket	1
12	circlip for shaft 10MM	1
13	Tension sheet spring	1
14	Tension sheet	1
15	3 x40 cylindrical pin	1
16	Slotted pan head tapping screws S	1
17	Plain washers 4 x12x1.5	1
18	Plain washers 8 x13x0.3	1
19	Chain plate	1
20	button spring	1
21	fuel outlet tube	1
22	Tubing spring	1
23	fuel inlet tube	1
24	oil pump	1
25	Slotted pan head tapping screws S	2
26	16001 bearing	1

No.	Description	Qty
27	gear worm	1
28	output shaft	4
29	Big teeth	1
30	607 bearing	1
31	gear case	1
32	Slotted pan head tapping screws S	3
33	small teeth	1
34	608 bearing	1
35	brushless motor	1
36	Switch	1
37	Control unit	1
38	Battery pins	1
39	oil tank	1
40	O-shape Washer	1
41	right engine cover	1
42	Oil cap cover washer	1
43	Oil cap	1
44	vent	1
45	Slotted pan head tapping screwsS1	11
46	Right battery pack adapter	1
47	Signal contact locator	1
48	Charger	1
49	Guide Bar Sleeve	1



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