

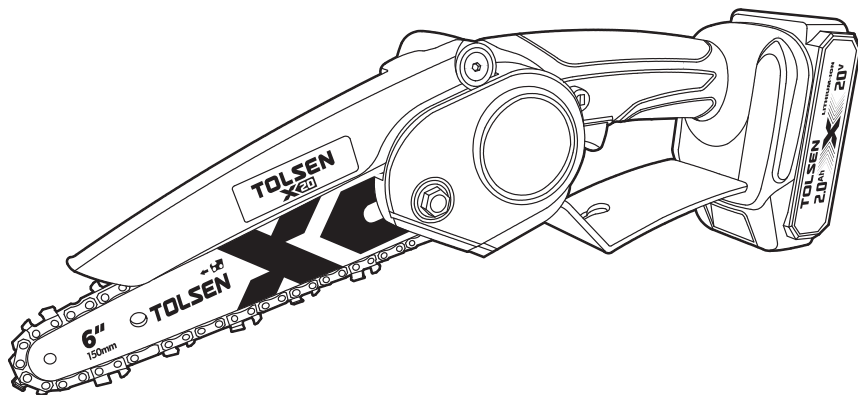
TOLSEN X20

97152

LI-ION CORDLESS MINI CHAIN SAW

INSTRUCTION MANUAL

20V LITHIUM-ION



SAVE THIS MANUAL !

You will need this manual for safety instructions, operating procedures and warranty.
Put it and the original sales receipt in a safe dry place for future reference.

IMPORTANT SAFETY INFORMATION

General Power Tool Safety Warnings

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

WARNING: This appliance is not intended for use by persons (including children) with reduced, physical or mental capabilities or lack of experience or knowledge unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

Children must be supervised to ensure that they do not play with the appliance.

Save all warnings and instructions for future reference

The term "power tool" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

Work Area Safety

1. Keep work area clean and well lit. Cluttered or dark areas invite accidents.
2. 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.
3. Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

Electrical Safety

1. 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.
2. 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.
3. Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
4. 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.
5. 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.
6. If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) or ground fault circuit interrupter (GFCI) protected supply. Use of an RCD or GFCI reduces the risk of electric shock.
7. Power tools can produce electromagnetic fields [EMF] that are not harmful to the user. However, users of pacemakers and other similar medical devices should contact the maker of their device and/or doctor for advice before operating this power tool.

Personal Safety

1. 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.
2. 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.
3. 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.
4. 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.
5. Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
6. 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.
7. If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of dust collection can reduce dust-related hazards.
8. Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles. A careless action can cause severe injury within a fraction of a second.

Power Tool Use And Care

1. Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.
2. Do not use the power tool if the switch could not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
3. 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.
4. 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.
5. Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
6. Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
7. Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from those intended could result in a hazardous situation.
8. Keep handles and grasping surfaces dry, clean and free from oil and grease. Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.

Battery Tool Use And Care

1. 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.
2. Use power tools only with specifically designated battery packs. Use of any other battery packs may create a risk of injury and fire.
3. 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.
4. Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact occurs, flush with water. If liquid contacts eyes, additionally seek medical help. Liquid ejected from the battery may cause irritation or burns.
5. Do not use a battery pack or tool that is damaged or modified. Damaged or modified batteries may exhibit unpredictable behaviour resulting in fire, explosion or risk of injury.
6. Do not expose a battery pack or tool to fire or excessive temperature. Exposure to fire or temperature above 130 °C may cause explosion.
7. Follow all charging instructions and do not charge the battery pack or tool outside the temperature range specified in the instructions. Charging improperly or at temperatures outside the specified range may damage the battery and increase the risk of fire.

Service

1. Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.
2. Never service damaged battery packs. Service of battery packs should only be performed by the manufacturer or authorized service providers.
3. Follow instruction for lubricating and changing accessories.

Chainsaw Safety Warnings

1. Keep all parts of the body away from the saw chain when the chainsaw is operating. Before you start the chainsaw, make sure the saw chain is not in contact with anything. A moment of inattention while operating chainsaws may cause entanglement of your clothing or body with the saw chain.
2. Always hold the chainsaw with your right hand at the rear handle and your left hand at the front handle. Holding the chainsaw with a reversed hand configuration increases the risk of personal injury and should never be done.
3. Hold the chain saw by insulated gripping surfaces only, because the saw chain may contact hidden wiring. Saw chains contacting a "live" wire may make exposed metal parts of the chain saw "live" and could give the operator an electric shock.
4. Wear eye protection. Further protective equipment for hearing, head, hands, legs and feet is recommended. Adequate protective equipment will reduce personal injury from flying debris or accidental contact with the saw chain.
5. Do not operate a chain saw in a tree, on a ladder, from a rooftop, or any unstable support.
6. When cutting a limb that is under tension, be alert for spring back. When the tension in the wood fibres is released, the spring loaded limb may strike the operator and/or throw the chain saw out of control.
7. Use extreme caution when cutting brush and saplings. The slender material may catch the saw chain and be whipped toward you or pull you off balance.
8. Carry the chainsaw by the front handle with the chainsaw switched off and away from your body. When transporting or storing the chainsaw, always fit the guide bar cover. Proper handling of the chainsaw will reduce the likelihood of accidental contact with the moving saw chain.
9. Follow instructions for lubricating, chain tensioning and changing the bar and chain. Improperly tensioned or lubricated chain may either break or increase the chance for kickback.
10. Cut wood only. Do not use chain saw for purposes not intended. For example: do not use chain saw for cutting metal, plastic, masonry or non-wood building materials. Use of the chain saw for operations different than intended could result in a hazardous situation.
11. Do not attempt to fell a tree until you have an understanding of the risks and how to avoid them. Serious injury could occur to the operator or bystanders while felling a tree. This chain saw is not intended for tree felling. Use of the chain saw for operations different than intended could result in serious injury to the operator or bystanders.
12. Follow all instructions when clearing jammed material, storing or servicing the chain saw. Make sure the switch is off and the battery pack is removed. Unexpected actuation of the chain saw while clearing jammed material or servicing may result in serious personal injury.

Prevent Operator Kickback

Kickback may occur when the nose or tip of the guide bar touches an object, or when the wood closes in and pinches the saw chain in the cut. Tip contact in some cases may cause a sudden reverse reaction, kicking the guide bar up and back towards the operator.

Pinching the saw chain along the top of the guide bar may push the guide bar rapidly back towards the operator. Either of these reactions may cause you to lose control of the saw which could result in serious personal injury. Do not rely exclusively upon the safety devices built into your saw. As a chain saw user, you should take several steps to keep your cutting jobs free from accident or injury. Kickback is the result of chain saw misuse and/or incorrect operating procedures or conditions and can be avoided by taking proper precautions as given below:

1. Maintain a firm grip, with thumbs and fingers encircling the chain saw handles, with both hands on the saw and position your body and arm to allow you to resist kickback forces. Kickback forces can be controlled by the operator, if proper precautions are taken. Do not let go of the chain saw.
2. Do not overreach and do not cut above shoulder height. This helps prevent unintended tip contact and enables better control of the chain saw in unexpected situations.
3. Only use replacement guide bars and saw chains specified by the manufacturer. Incorrect replacement guide bars and saw chains may cause chain breakage and/or kickback.
4. Follow the manufacturer's sharpening and maintenance instructions for the saw chain. Decreasing the depth gauge height can lead to increased kickback.

Additional Safety Instructions For One Hand Power Saw

1. The one hand power saw is designed for cutting branches. Only use the one hand power saw as indicated in this manual for cutting wood. The machine has not been designed for continuous, professional use.
2. Keep the one hand power saw out of reach of children. It is not a toy.
3. Persons with limited physical, sensorial or mental abilities are not allowed to use the One hand power saw, unless they are supervised for their safety by a qualified person or are briefed by the responsible person how to use the machine.
4. Children and adolescents are not allowed to use the one hand power saw. Excluded from this prohibition are young people over 16 years of age under the supervision of an expert for the purpose of training.
5. Please note the warning symbols. They mark all those instructions which are important for safety reasons. Observe these instructions as failure to do so could result in serious injury!
6. The one hand power saw must be used only by one person at a time. Make sure bystanders do not stay in the vicinity of the one hand power saw's work area.
7. Check the safe operating condition of the One hand power saw, in particular the guide bar and the saw chain, before each operation.
8. Always have a safe stand when working with the saw.
9. Hold the machine firmly and securely when switching on.
10. Make sure the guide bar and the saw chain must be free when switched on and must not come into contact with the workpiece to be cut.
11. Keep your hands away from the sawing area. Do not reach under the workpiece. Contact with the saw chain may result in injury.
12. Guide the One hand power saw onto the workpiece only when switched on. Otherwise there is a risk of kick-back if the saw chain gets caught in the work piece.
13. When sawing, the base plate must always face against the workpiece. The saw chain can become jammed and lead to loss of control over the machine.
14. When the cut is completed, switch off the machine and then pull the saw chain out of the cut only after it has come to a standstill. This way you can avoid kick-back.
15. Clamp the material to be processed well. Do not support the workpiece with your hand or foot. Do not touch objects or the floor with the saw running. Danger of kick-back.
16. When sawing converted timber and thin branches always use a strong support, such as a sawing trestle. Do not stack timber pieces.
17. Before cutting logs, secure the logs in position.
18. When working on sloping ground, make sure to work facing upwards.
19. Be particularly careful when cutting splintered wood. Splinters of wood can be torn along by the saw chain and increase the risk of injury!
20. Foreign objects such as nails, screws, metal parts, sand, etc. lead to increased wear on the guide bar and saw chain.
21. A blunt saw chain can cause overheating and damage to the motor.
22. Always pull out the battery when checking the chain tension, to re-tighten it, to mount the saw chain and to eliminate faults! Also remove the battery if you do not use the machine temporarily

Battery Safety



WARNING

This battery can only be used in the machines included in the TOLSEN X20V lithium-ion power platform system. This battery can only be used cooperatively with the designated battery charger.

Li-Ion batteries, if incorrectly used, stored or charged will cause a fire, burn and explosion hazard.

Failure to follow these instructions may cause overheating or fire.

1. Keep the battery out of reach of children.
2. The battery should be charged at ambient temperatures between 5 and 40°C (ideally around 20°C) . After charging, allow 15 minutes for the battery to cool before use.
3. The Battery Charger monitors battery temperature and voltage while charging. DO NOT leave batteries on charge for extended periods and NEVER store batteries on charge. Ensure that the charger is disconnected from the mains supply after use.
4. When not in use batteries should be stored at room temperature. Do not store the tool and battery cartridge in locations where the temperature may reach or exceed 40°C (ideally around 20°C) .
5. Ensure that battery contacts cannot accidentally short in storage. Keep batteries clean; foreign objects or dirt may cause a short. Keep away from other metal objects, for example, paperclips, coins, keys, nails and screws.
6. **DO NOT** store lithium-ion battery packs in a discharged state over a long period as this can damage the lithium-ion cells. For long-term storage, store batteries in a high charge state disconnected from the power tool.
7. Batteries can become faulty over time, individual cells in the battery can fail and the battery could short. The charger will not charge faulty batteries. Use another battery, if possible, to check correct functionality of the charger and purchase a replacement battery if a faulty battery is indicated.
8. **DO NOT** open, disassemble, crush, heat or incinerate. Do not dispose of in fire or similar.

Battery Charger Safety



WARNING

This charger can only be used to charge the batteries which has TOLSEN X20V symbol. If it is used to charge other kinds of batteries, there is a risk of explosion. **DO NOT** attempt to recharge non-rechargeable batteries.

1. If the shape of the plug does not fit the power outlet, use an attachment plug adaptor of the proper configuration for the power outlet.
2. This is class 2 power supply. It is suitable for indoor use only.
3. Before use, the input and output technical data must be checked to secure correct use.
4. Do not use the Battery Charger in the circumstances that the output polarity does not match the load polarity.
5. Do not attempt to use the charger with any batteries other than those supplied. Keep your battery charger clean; foreign objects or dirt may cause a short or block air vents. Failure to follow these instructions may cause overheating or fire
6. 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.

Save These Instructions



WARNING

DO NOT let comfort or familiarity with product (gained from repeated use) replace strict adherence to safety rules for the subject product. MISUSE or failure to follow the safety rules stated in this instruction manual may cause serious personal injury.

Before Use

Removing a battery

Remove the Battery from the tool by pressing the lock button, then slide the Battery out of the Battery Slot.

WARNING:

DO NOT try to remove the Battery without pressing the lock button. The tool or Battery could be damaged.

Fitting a battery

1. Fit a battery by sliding it on to the Battery Slot of the tool until it clicks and locks into position

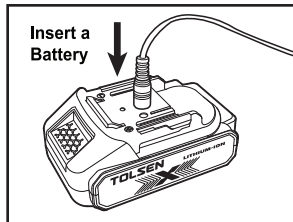
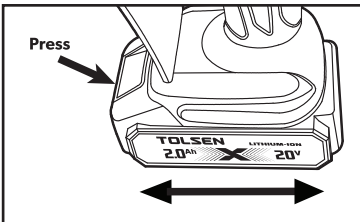
Note: Make sure the Battery and tool are lined up correctly. If the Battery does not slide into the tool easily, do not force it. Instead, slide the Battery out of the tool again, check the top of Battery and the tool battery slot are clean and undamaged and that the contacts are not bent

Setting up the battery charger

1. If there is battery fitted, remove any battery from battery charger first

2. Insert the Battery Charger mains plug into a suitable mains socket

Note: The Green LED on the Charger will always bright to indicate that the charger is ready to charge the battery.



WARNING: Use this charger ONLY to charge the supplied battery or additional purchased batteries that are specifically designed for this tool.

Charging the battery

WARNING: Failure to follow the correct procedure when charging batteries will result in permanent damage.

Note: Normal charging time is approximately 85minutes for a recently discharged 2.0Ah capacity battery.

However, if the Battery has been left in a discharged state for some time, it may take additional time to charge.

1. Slide a fully or partially discharged Battery on to the Battery Charger .

2. Once charging commences, the Red LED will on.

3. When the Battery is fully charged, the Red LED will off and Green LED will on.

IMPORTANT: When a low charge level is indicated, the tool may stop operating while in use, which is dangerous when operating it. Always ensure the battery pack has a good charge level.

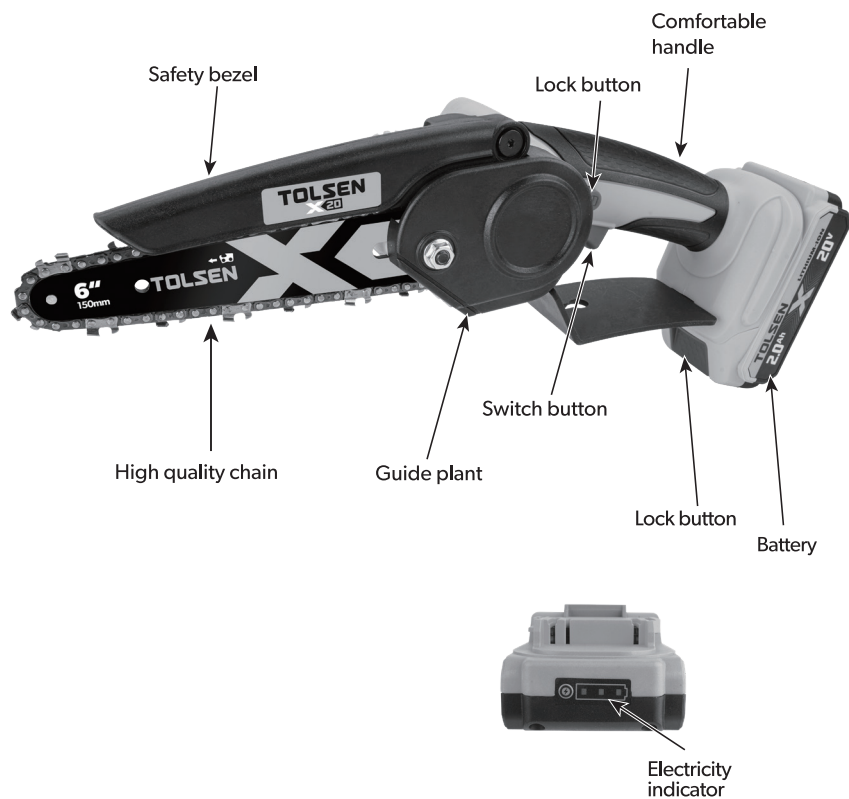
Note: Symbology

	Class II Double insulated for additional protection
	CE conformity
	Read the instruction manual before using
	Wear hearing protection while operating the tool
	Wear hand protection
	Always use breathing apparatus when machining materials which generate dust.
	Wear ear protection.
	Operating environmental temperature
	Do not incinerate battery pack
	Do not expose to water
	Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice.
	Batteries and rechargeable batteries are not household waste! As a consumer, you are required by law to dispose of all batteries and accumulators, whether or not they contain harmful substances *, at a collection point in your municipality / neighborhood or in commerce so that they can be disposed of in an environmentally sound manner.
	Battery pack is recyclable and should not be disposed of with household waste. Please recycle where facilities exist. Check with your local authority or retailer for recycling advice
	Safety alert
	For indoor use only
	Internal time lag fuse with a maximum current of 2A.

SPECIFICATIONS

Rated voltage	20VDC
Output power	500W
Guide bar length	6"(150mm)
Chain speed	6m/s
Chain pitch	1/4"
Net weight	2.4kg(5.2lbs)
Battery	
Battery Voltage	20VDC
Battery capacity	2.0Ah
Charger	
Input Voltage	110-120VAC 60Hz
Output Voltage	21.5VDC
Rated output current	1.5A
Charging Time	85minutes fast charging(2.0Ah battery)
Protection class	□

FUNCTIONS



OPERATING INSTRUCTION

Replace The Guide Bar And The Chain

1. How to remove chain:

Loosen compression button , remove the side cover After remove the side cover as picture, remove the guide directly

2. How to install the chain guide plate:

First load the chain into the guide plate, and the middle guide tooth just sticks into the guide plate guide slot.

Note: the chain blade should be forward.

Note: The charging chainsaw has a device to adjust the tensioning of the chain.

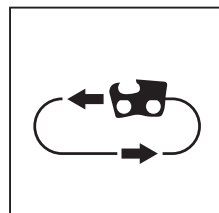
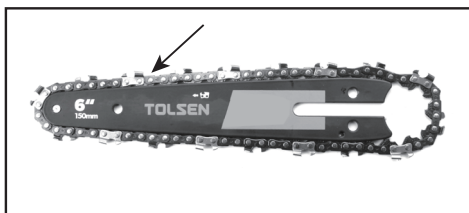
When installing the guide plate, make sure that the adjusting block gets stuck into the positioning adjusting hole at the end of the guide plate!

Loosen the nut counterclockwise and remove the side cover



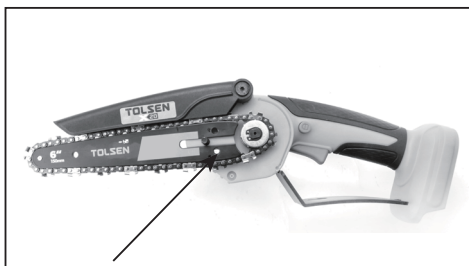
1) Put the chain into the guide

2) Note the direction of the cutting teeth



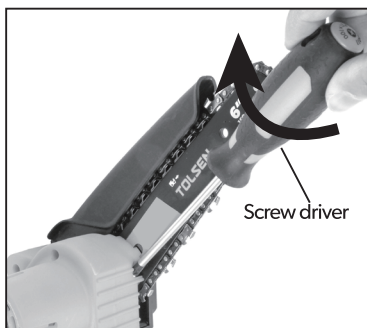
3) Align the pin hole and install the reverse hole and chain

4) Install the side cover and tighten the screw nut



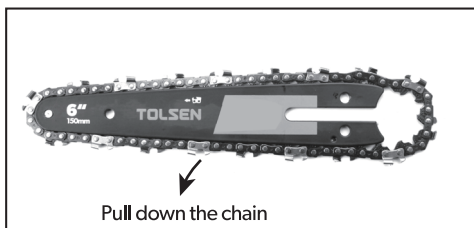
3. How to adjust the tightness of the chain?

As shown in the picture, twisted the adjusting screw clockwise totension the chain, counterclockwise is for loosening

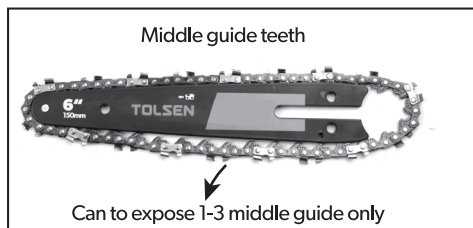


4. The adjustment standard is to lift the chain in the middle of the guide plate by hand and expose 1-3 middle guide teeth

1) Pull down the chain



2) Can to expose the three middle guide teeth only



5. NOTE:

- 1) The new chain will be stretched in the early stage of use. Please check and adjust to the appropriate tension frequently, because the loose chain is easy to derail, which may lead to rapid wear of the chain and guide plate.
- 2) The chain must be stuck to the sprocket. After installation, please check it again.

Operating Instructions

1. Please wear suitable clothing and work gloves when using this parent. Before each use, make sure the belt is running normally. start/off switch and safety switch must be available for normal use. When loosening the start switch, the power must be turned off. If the switch is damaged, stop using the device. Make sure the voltage of the power supply is consistent with the voltage on the nameplate. The risk of injury can be reduced by wearing protective devices and ensuring that the devices are functioning properly.
2. Confirm the frequency of the operation to ensure that the operation is in the best condition.
3. In order to save the use of electric batteries and ensure the best service life of pruning and shearing, do not allow this load of overloaded lice to cut wet and dry branches over 60mm diameter and 20mm.
4. When cutting the knife edge mode to stop the operation, turn off the power switch and splash down the battery box.

Houston Skills

1. When the device is running, say your other hand is at least 15cm away from the cutting area of the blade, and the hand must not be put into the knife edge.
2. Do not use this equipment to force the bigger branches, otherwise it may make the blade deform and make the pruning stick.
3. In cold or humid weather, to protect the battery pack, put it under waterproof clothing, do not use this equipment in rainy days.
4. We recommend that after daily use, the connection between the pruning number and the battery pack must be cut, and the power switch (8) is closed and put together into the matching tool box.
5. If the user feels the electricity is not enough or the cutting is not smooth enough, check if the electricity is exhausted or the blade is dull.

Cleaning And Maintenance

1. Repair work functions not mentioned in this specification are performed by the service center. To ensure safe use, only original parts can be used.
2. Please close the equipment before starting the chair repair. Clear the connection between the battery and the plant and store the battery in a safe package.
3. Wear hand care when touching safety blades. This can avoid sharp blade scratching the user. Follow-up cleaning and maintenance must be carried out regularly. This ensures long-term and reliable operation of the equipment.
4. Do not spray the equipment with water or break it into the water, otherwise, it may cause electric shock. Keep the ventilator, motor room and equipment handle clean. Use a damp cloth or brush cleaner.
5. Do not use a bay cleaner. Otherwise, it may cause permanent saka failure of the equipment. Please clean the blade carefully after each use.
6. Use oily cloth to wipe the blade and absorb the metal to protect the fog.
7. After 8 hours of continuous operation, please remove the debris such as dust from the front turbulent cover plate of the equipment.

TRANSPORTATION AND STORAGE

Before you move the machine, always

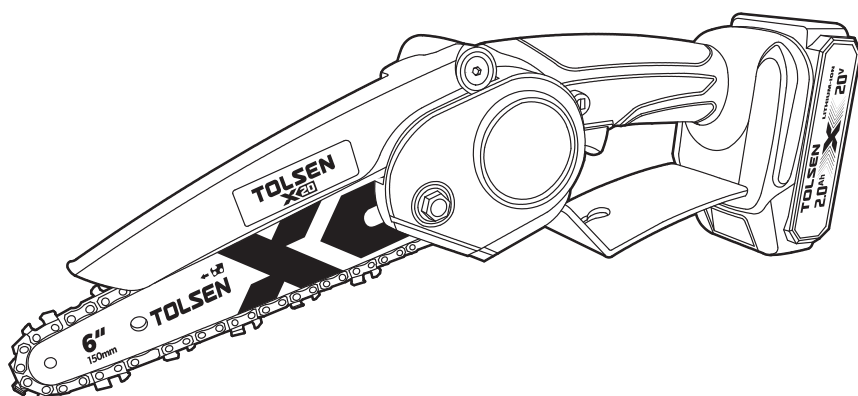
- Remove the battery pack from the machine.
- Keep hands clear of the lock-out button.
- Put the scabbard on the guide bar and the chain.
- Before you put the machine into storage, always Remove all residual oil from the machine.
- Remove the battery pack from the machine.
- Clean all unwanted material from the machine.
- Make sure that the storage area is Not available to children.
- Away from agents which can cause corrosion, such as garden chemicals and de-icing salts.

TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
The guide bar and the chain become hot and release smoke.	The chain is too tight.	Adjust the chain tension.
	The oil tank is empty.	Add lubricants.
	Contamination causes a blockage of the discharge port.	Remove the guide bar and clean the discharge port.
	Contamination causes a blockage of the oil tank.	Clean the oil tank. Add new lubricant.
	Contamination causes a blockage of the guide bar and the oil tank cap.	Clean the guide bar and the oil tank cap.
	Contamination causes a blockage of the sprocket or guide wheels.	Clean the sprocket and the guide wheels.
The motor runs but the chain does not rotate.	The chain is too tight.	Adjust the chain tension.
	The guide bar and the chain are damaged.	Replace the guide bar and the chain if it is necessary.
	The motor is damaged.	1. Remove the battery pack from the machine. 2. Remove the guide bar cover. 3. Remove the bar and saw chain. 4. Clean the machine. 5. Install battery pack and operate the machine. If the sprocket rotates, it means the motor works properly. If not, call service center.
The motor runs and the chain rotates, but the chain does not cut.	The chain is blunt.	Sharpen or replace the saw chain.
	The chain is in the incorrect direction.	Turn the chain loop to the other direction.
	The chain is tight or loose.	Adjust the chain tension.

TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
Adjust the chain tension.	Adjust the chain tension.	Pull the chain brake in the direction of the user to disengage it.
	The machine and battery are not connected correctly.	Make sure that the battery release button clicks when you install the battery pack.
	The battery level is low.	Charge the battery pack.
	The lock out button and the trigger is not pushed at the same time.	1.Push the lockout button and hold it. 2.Push the trigger to start the machine.
	The battery is too hot or too cold.	Refer to battery and charger manual.
	Operation temperature of the machine is too high.	Cool the machine.
The machine does not start when the battery pack only has one or two lights flash.	The battery pack is in a low capacity.	1.Cool the battery pack or machine to ambient temperature. 2. Charge the battery pack again. 3. Start the machine again.
	The battery pack or control board at high temperature protective state.	
The motor runs, but the chain does not cut correctly, or the motor stops after around 3 seconds.	The machine is in the protection mode to protect the PCB.	Release the trigger and start the machine again. Do not force the machine to cut.
	The battery is not charged.	Charge the battery. Refer to the battery and charger manual for correct charging procedures.
	The chain is not lubricated.	Lubricate the chain to decrease the friction. Do not let the guide bar and the chain operate without sufficient lubricant.
	Incorrect battery storage temperature	Cool the battery pack until it decreases to the ambient temperature.



SUZHOU TOLSEN
TOOLS CO.,LTD.

www.tolsentools.com

TOLSEN is a trademark or
registered trademark of TOLSEN
TOOLS. All rights reserved.
MADE IN CHINA



SCAN TO VISIT
PRODUCT LINK