

TOLSEN MP20^V

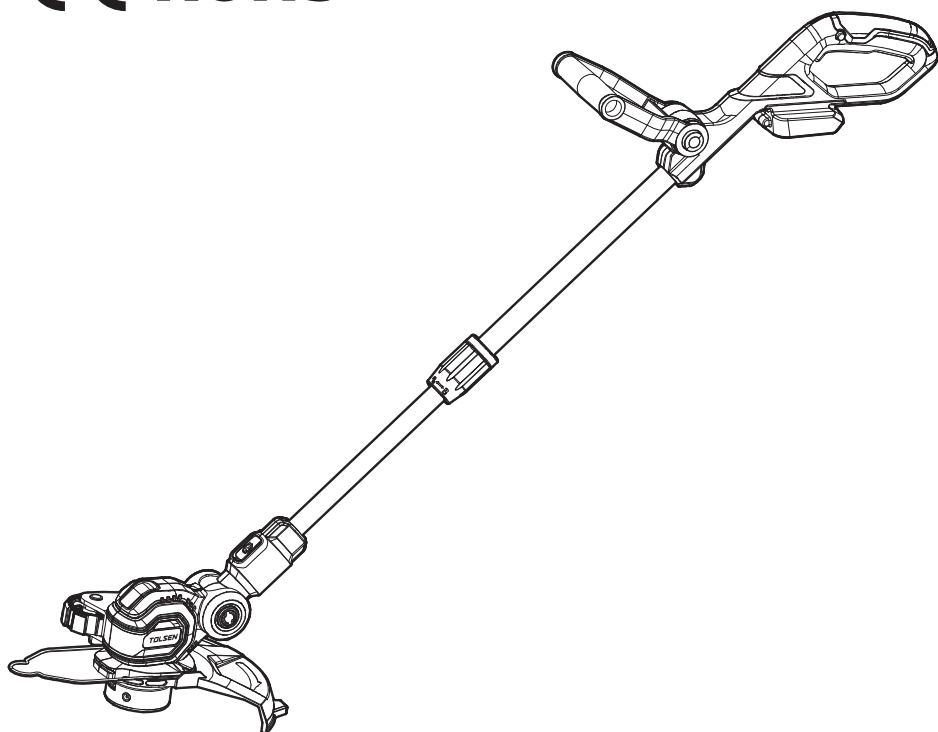
87372

LI-ION CORDLESS STRING TRIMMER

INSTRUCTION MANUAL

20V LITHIUM-ION

CE RoHS



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 does 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.

Coldless glass trimmer safety warnings

1. Keep guards in place and in good working order.
2. Keep hands and feet away from cutting area.
3. Do not use heavier lines than recommended in this manual.
4. Do not use line materials of other types – for example, metal wire, rope, and the like.

Battery Safety

WARNING

This battery can only be used in the machines included in the TOLSEN MP20V 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 MP20V 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. This is class 2 power supply. It is suitable for indoor use only.
2. Before use, the input and output technical data must be checked to secure correct use.
3. Do not use the Battery Charger in the circumstances that the output polarity does not match the load polarity.
4. 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
5. 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.

Note: Symbology

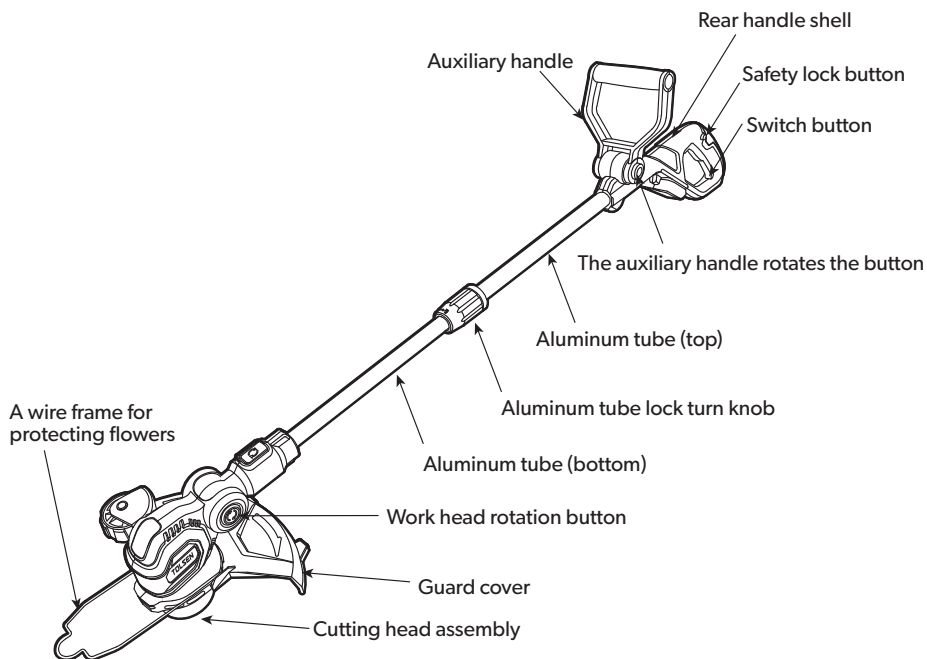
	CE conformity
	Read the instruction manual before using
	Wear hearing protection while operating the tool Wear hand protection
	Always use breathing apparatus when machining materials which generate dust. Wear ear protection.
	Operating environmental temperature Max 45°C
	Do not incinerate battery pack
	Do not expose to water
	Keep all bystanders at least 50 feet away.
	Thrown objects can ricochet and result in personal injury or property damage. Wear protective clothing and boots.
	Do not expose the product to rain or moist conditions.
	Beware of blade thrust.
	Thrown objects can ricochet and result in personal injury or property damage. Wear protective clothing and boots.
	Do not use saw blades.
	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
	If the current of the charger is higher than "x" A, the time-lag fuse will interrupt the power supply

SPECIFICATIONS

Rated voltage	20VDC
Output power	200W
No-load speed	7500 min ⁻¹
Cutting capacity (diameter)	300mm(12")
Head adjustment cutting angle	0° / 22.5° / 45° / 67.5° / 90°
Max. cutting trimmer line	Ø1.6mm
Net weight	1.8kg(4lbs)



FUNCTIONS



INSTALLATION

WARNING

Remove the battery pack from the machine before installation.

WARNING

Do not use accessories that are not recommended for this machine.

Unpack the machine

WARNING

Make sure that you correctly assemble the machine before use.

WARNING

- If the parts are damaged, do not use the machine.
 - If you do not have all the parts, do not operate the machine.
 - If the parts are damaged or missing, speak to the service center.
- a. Open the package.
 - b. Read the documentation in the box.
 - c. Remove all the unassembled parts from the box.
 - d. Remove the machine from the box.
 - e. Discard the box and package in compliance with local regulations.

Attach the guard

WARNING

Do not touch the cut-off blade.

- a. As shown in Figure 1, first install the steel wire frame for protecting flowers and guard cover on the working head shell
- b. Tighten the screws as shown in Figure 2.

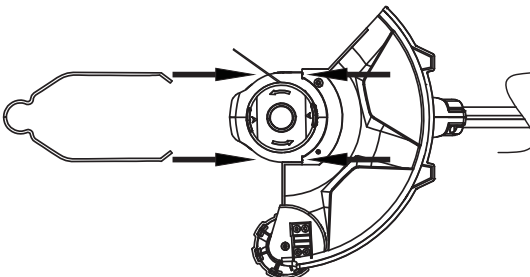


Figure 1

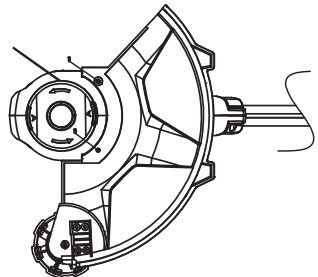


Figure 2

Attach the auxiliary handle

Install the auxiliary handle onto the machine as shown in Figure 3.

Install the battery pack

As shown in Figure 4, assemble the battery pack onto the machine.

- b. Push the battery pack into the battery compartment until the battery pack locks into place.
- c. When you hear a click, the battery pack is installed.

WARNING

- If the battery pack or charger is damaged, replace the battery pack or the charger.
- Stop the machine and wait until the motor stops before you install or remove the battery pack.
- Read, know, and do the instructions in the battery and charger manual.

REMOVE THE BATTERY PACK

- a. Push and hold the lock button.
- b. Remove the battery pack from the machine.

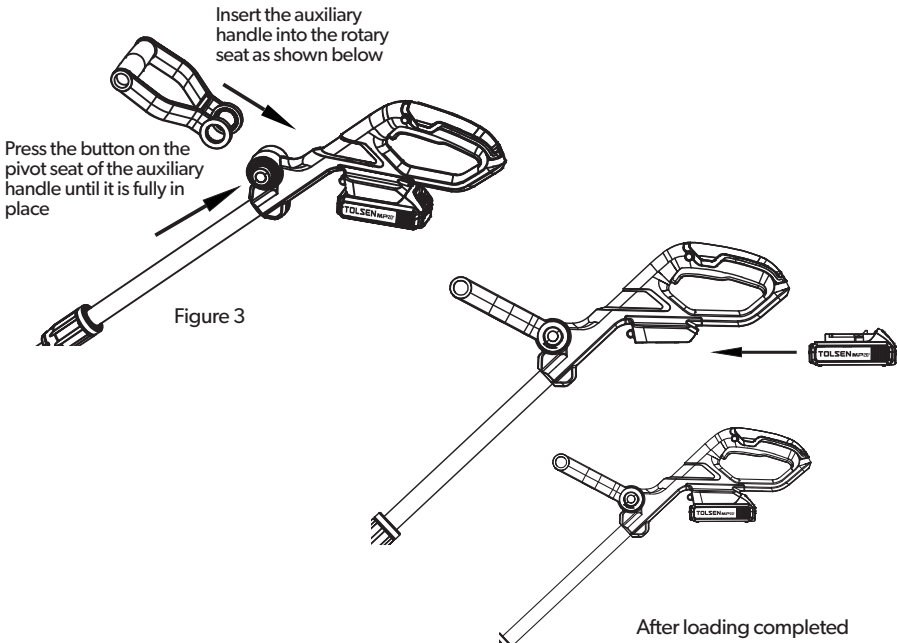


Figure 4

OPERATION

IMPORTANT

Before you operate the machine, read and understand the safety regulations and the operation instructions.



WARNING

Be careful when you operate the machine.

Controls

As shown in Figure 5, the left hand operates the auxiliary handle "1" and the right hand controls the rear handle "2"

NOTE: Power off time within 60 seconds to restart, will maintain the last operating speed; When the power off time is over 60 seconds and the machine is restarted, the machine will automatically return to the original state.

IMPORTANT:

Do not keep your finger on the button when you move the machine to prevent accidental start.

START THE MACHINE

- Pull the safety button "3" in Figure 6.
- Pull the switch button "4" in Figure 6.

STOP THE MACHINE

- Release the switch button "4" in Figure 6.

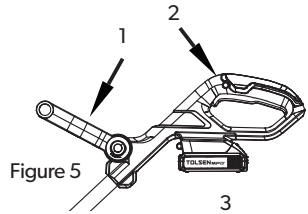


Figure 5

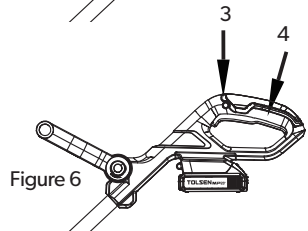


Figure 6

Operation tips



WARNING

Keep clearance between the body and the machine.



WARNING

Do not operate the machine without guard in place.

Do these tips when you use the machine:

- Keep the machine connected to the correctly worn harness.
- Keep a firm hold with the two hands on the machine while you operate the machine.
- Cut tall grass from the top down.

If grass winds around the trimmer head:

- Remove the battery pack.
- Remove the grass.

Line cut-off blade

This trimmer is equipped with a line cut-off blade (Figure 7) on the guard. The line cut off blade continuously trims the line to ensure a consistent and efficient cut diameter. Advance line whenever you hear the engine running faster than normal, or when trimming efficiency diminishes. This will maintain best performance and keep line long enough to advance properly.

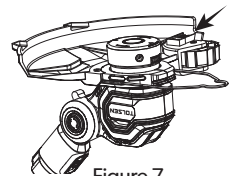


Figure 7

Cutting tips

- Tilt the machine toward the area to be cut. Use the tip of the cutting line to cut grass, as shown in figure 9.
- Move the machine from right to left to prevent thrown debris toward the operator.
- Do not cut in the dangerous area.
- Do not force the trimmer head into uncut grass.
- Wire and picket fences cause cutting line wear and breakage. Stone and brick walls, curbs, and wood can wear the cutting line quickly.
- The cutting Angle of the cutting head can be adjusted according to the actual cutting requirements. The cutting Angle can be adjusted from 0°-22.5°-45°-67.5°-90°, as shown in figure 8.

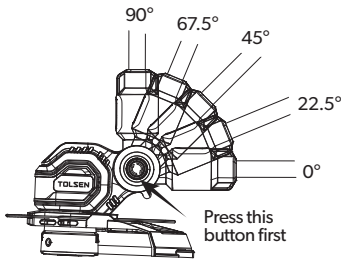


Figure 8

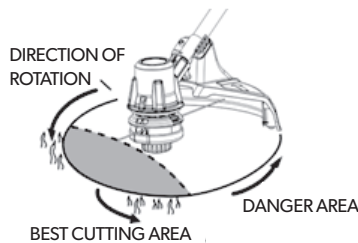


Figure 9

Adjust the length of the cutting line

- Turn on and operate the machine at a stable speed, then shut down until the machine stops completely, the straw rope will be out of line once.
- Repeat operation "a" until you hear the sound of the blade cutting the straw rope

Trimmer edges

WARNING

Risk of injury! When using the cutting head upright, particular care should be taken. Always maintain sufficient distance to the cutting head.

NOTE: Risk of damage to the unit! Avoid contact with solid surfaces to prevent rapid wear of the thread.

NOTE: The Wheel assembly only serves for easier guidance when trimming edges. It should not be used for brush cutting and no influence on the cutting height.

- Remove the battery pack from the lawn trimmer.
- Press the work head rotation button in the figure 10, Rotate to 0°
- Press the work head rotation button in the Figure 10, Rotate the Aluminum tube 90°.
- Once the adjustment is complete, as shown in Figure 10, you can edge trimming

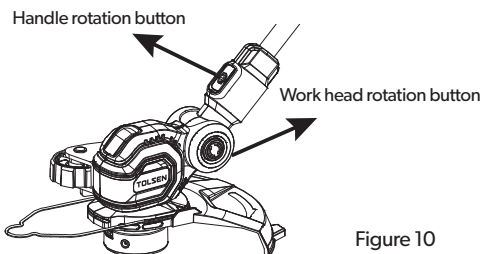


Figure 10

Replacing the spool

WARNING

Make sure the machine is off before replacing the spool and that the battery pack is removed from the machine

- Press the locking clips (A) in.
- Remove the cover (B).
- Pull out the cord spool.
- Feed the thread in the opening (C) of the spool housing.
- Press the thread spool into the spool housing.
Pull the thread out through the opening (C).
- Mount the cover (B) and allow to engage.

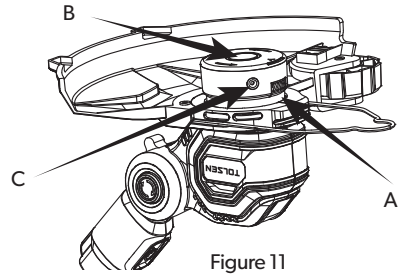


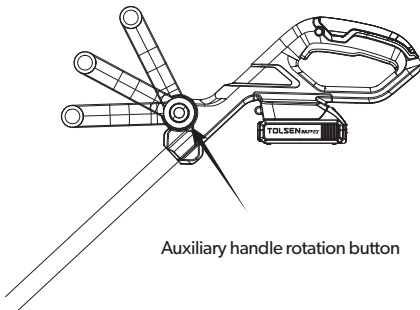
Figure 11

Auxiliary handle angle adjustment

Press the auxiliary handle rotation button in Figure 12 below. Turn the auxiliary handle to the Angle you want.

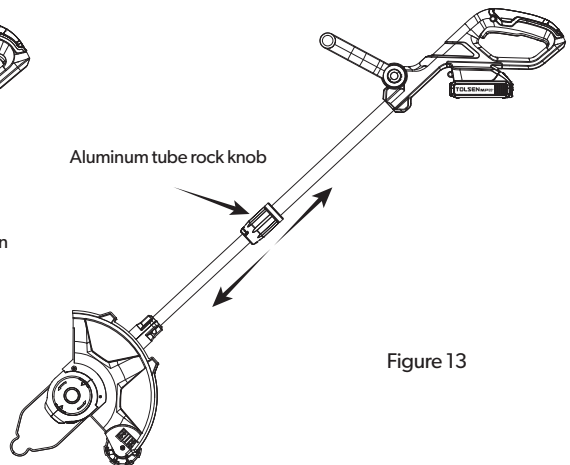
Telescopic aluminium tube

- Turn the aluminum tube lock knob shown in Figure 13 counterclockwise, then lengthen or shorten the aluminum tube to the desired length
- After the length is adjusted, turn the aluminum tube lock knob clockwise until the aluminum tube is completely locked.



Auxiliary handle rotation button

Figure 12



Aluminum tube lock knob

Figure 13

MAINTENANCE**IMPORTANT:**

Read and understand the safety regulations and the maintenance instructions before you clean, repair or do the maintenance work on the machine.

IMPORTANT:

Make sure that all nuts, bolts and screws are tight. Examine regularly that you install the handles tightly.

IMPORTANT:

Use only the replacement parts and accessories of the initial manufacturer.

GENERAL INFORMATION**IMPORTANT:**

Only your dealer or approved service center can do the maintenance that is not given in this manual.

Before the maintenance operations:

- Stop the machine.
- Remove the battery pack.
- Cool the motor.
- Store the machine in cool and dry place.
- Use correct clothing, protective gloves and safety glasses.

CLEAN THE MACHINE

- Clean the machine after use with a moist cloth dipped in neutral detergent.
- Do not use aggressive detergents or solvents to clean the plastic parts or handles.
- Keep the trimmer head free of grass, leaves, or excessive grease.
- Keep the air vents clean and free of debris to avoid overheating and damage to the motor or the battery.
- Do not spray water onto the motor and electrical components.

TRANSPORTATION AND STORAGE

MOVE THE MACHINE

When you move the machine, you must:

- Wear gloves.
- Stop the machine.
- Remove the battery pack and charge it.
- Assemble the blade guard.

STORE THE MACHINE

- Remove the battery pack from the machine.
- Make sure that children cannot come near the machine.
- Keep the machine away from corrosive agents such as garden chemicals and de-icing salts.
- Secure the machine during transportation to prevent damage or injury. Clean and examine the machine for any damage.

TROUBLESHOOTING

problem	possible causes	Likely Solutions
Tool will not start.	<ol style="list-style-type: none"> 1. Battery Pack not properly connected. 2. Battery Pack not properly charged. 3. Battery Pack worn out. 4. Internal damage or wear. (Carbon brushes or Trigger, for example.) 5. Contact chips of switch or battery pack deformed. 6. Battery is not suitable for TOLSEN MP20V lithium-ion power platform system 7. Overload operation 	<ol style="list-style-type: none"> 1. Remove Battery Pack, make sure there are no obstructions, clean battery contacts on tool, reinsert the Battery Pack according to its shape (it should only fit one way), and press firmly until the Battery Pack locks in place. 2. Make sure Charger is connected and operating properly. Give enough time for Battery Pack to recharge properly. 3. Dispose of old Battery Pack properly or recycle. Replace Battery Pack. 4. Have technician service tool. 5. Replace switch or Battery Pack 6. Replace the battery of TOLSEN MP20V 7. Stop to use and restart the machine after cooling.
Tool operates slowly.	<ol style="list-style-type: none"> 1. Material too thick. 2. Battery Pack worn out. 3. Low battery. 	<ol style="list-style-type: none"> 1. Thin out material. 2. Dispose of old Battery Pack properly or recycle. Replace Battery Pack. 3. Recharge or replace a fully charged battery.
Performance decreases over time	<ol style="list-style-type: none"> 1. Carbon brushes worn or damaged. 2. Trimmer line is broken 	<ol style="list-style-type: none"> 1. Have qualified technician replace brushes. 2. Use new line or relace trimmer line spare parts.
Excessive noise / shake or rattling.	Internal damage or wear.(Carbon brushes or bearings,for example.)	Have technician service tool.
Overheating.	<ol style="list-style-type: none"> 1. Material too thick. 2. Blocked motor housing vents. 	<ol style="list-style-type: none"> 1. Thin out material. 2. Clean the Blocked motor housing vents.

CE DECLARATION OF CONFORMITY

WE
SUZHOU TOLSEN TOOLS CO.,LTD.
198 HUASHAN ROAD, ZHANGJIAGANG,
JIANGSU, CHINA

Declare that the product
87372
LI-ION CORDLESS STRING TRIMMER

Complies with the essential health and safety requirements of the following Directices:
council directive 2006/42/EC

Standards and technical specifications referred to:

EN 50636-2-91:2014
EN 60335-1:2012+A11:2014
EN 55014-1:2017
EN 55014-1:2015

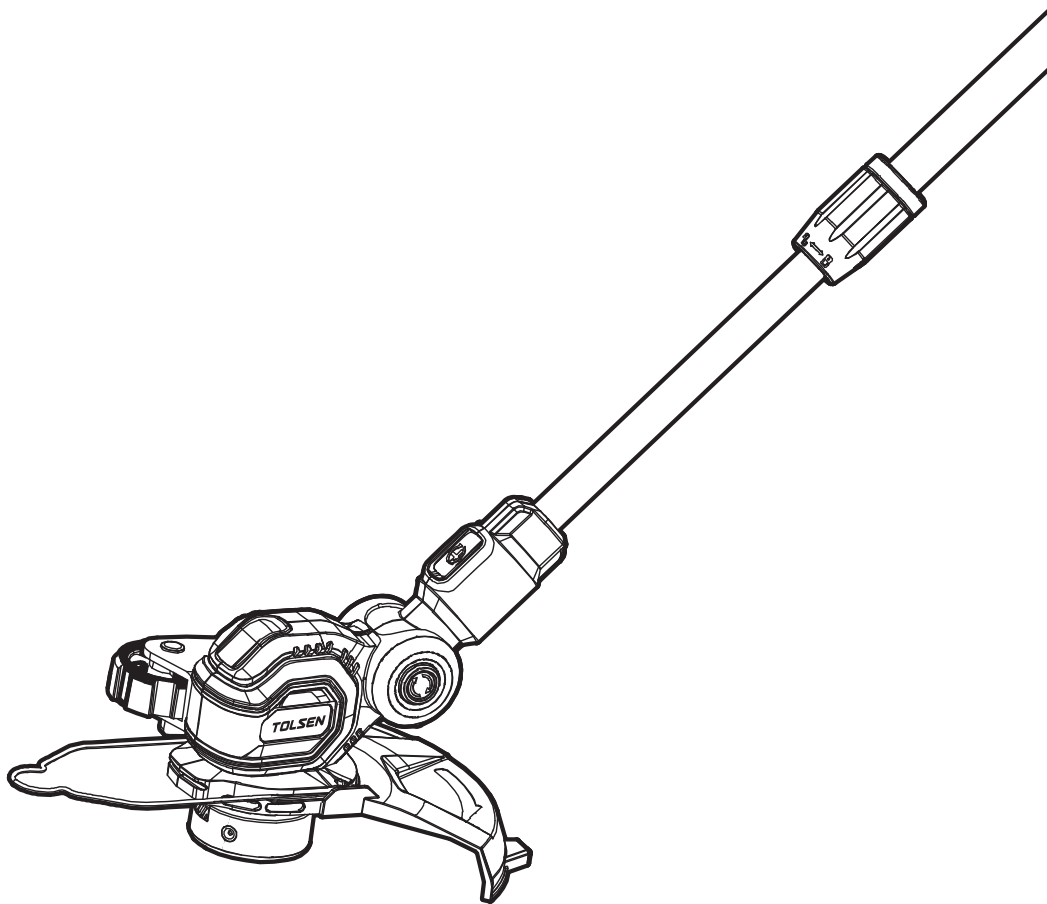
Authorised Signatory and technical file holder

Signed for and on behalf of:

SUZHOU TOLSEN TOOLS CO.,LTD.
198 HUASHAN ROAD, ZHANGJIAGANG,
JIANGSU, CHINA
WANG QING

Group Quality Director
on:07/02/2022





**SUZHOU TOLSEN
TOOLS CO.,LTD.**

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PRODUCT LINK