

Electric Trimmer TOP100

User's Guide and Safety Notes



Featuring

Cutting Capability	Net Weight		Charging Time	Long Lasting Operations
0~30mm	CE-100	Battery	4.5~5hr	8 hours operation
	0.9KG	1.6KG		

Standard Accessories

- Electric Trimmer
- Electric Charger
- Power Cord of Charger
- Work Bag
- Li-Ion Battery
- Power Cable
- Back pack of battery
- Hand Carried Tool Box

For safety and proper usage, please read the user's guide carefully before using Electric Trimmer and put the user's guide at handy place for references.

CONTENTS

Electric Trimmer Specifications	1
Important Safety Notes	3
User's Guide for the Electric Trimmer	5
Battery Charging Operation Instructions	8
Maintenance procedures for Electric Trimmer	10
Warranty & Maintenance	16
Trouble - shooting	18



Electric Trimmer Top 100 Specifications

Characteristics

Electric Trimmer	Capability	Dry, hard wood of 0~30mm diameters
	Rated Operating Voltage	DC36V
	Rated Current	10A
	Max. Current Protection	40A
	Weight	0.9KG
Li-Ion Battery	Rated Voltage	DC36V
	Rated Capacity	4AH
	Long Lasting Operation	8 hours operation
	Weight	1.6KG
Charger	Input Voltage	AC100-240V/50-60Hz
	Output Voltage	DC41.5V
	Charging Current	1A
	Charging Time	4.5~5hrs

Names of Parts and Components



- | | | |
|------------------------------|------------------------|--|
| 1. Moving blade | 2. Fixed blade | 3. Adjust set screw |
| 4. Protection housing | 5. Finger guard | 6. Trigger |
| 7. Cable plug | 8. Handle | 9. Blades opening adjustment button |



Li-Ion Battery



Power Cable



Electric charger



Power Cord of Charger



Back pack of battery



Tool box

LED Indication of Charge

Item	Indication	Status
Li-Battery	3 Green Lights	80% - 100%
	2 Green Lights	50% - 80%
	1 Green Light	30% - 50%
	1 Red Light	Below 30%
Charger	Red	Charging
	Green	Charging finish

Main Safety Notes

※※ Please keep the Electric Trimmer away from reachable area of children. ※※

Caution: To prevent accidents like fire, electric shock or injury, please follow the basic safety guidelines when operate the Electric Trimmer as mentioned below. Do read carefully about the operation instructions before usage.

I. Safety For Operator

- (1) Never put finger or any part of the body in between the Electric Trimmer blades. During maintenance, make sure the power cable is unplugged and the Battery switch is off, or the Electric Trimmer connector is disconnected.
- (2) Be alert when using the Electric Trimmer. Do not operate the Electric Trimmer when feeling tired or under the influences of medications, alcohol, sleeping pills or drugs which can prevent from getting hurt seriously in operating the Electric Trimmer.
- (3) Depends on the surrounding of the workplace, equip with appropriate protective devices such as helmet, goggles, dust mask, mask, earplugs, gloves, safety shoes and so on, whichever adequate, to reduce the possible injury of operator.
- (4) To prevent accidents, please be sure to turn the power off when not using and keep the power off at all time while in storage.
- (5) Before turning on the Electric Trimmer, please check any tool or object in the vicinity of the blades or attached onto it. The handle must be kept clean, dry, and free from oil or grease.
- (6) When operating the Electric Trimmer, the operator must be alert to step and stand on firm and steady ground. Do not reach out across the tool to get other objects while Electric Trimmer is in operation.
- (7) The operator must wear comfortable working clothes. Do not wear unfit clothes, or with unnecessary accessories and hanging strips, or anything that might hinder normal movements of the body. The operator needs to contain their hair/beard, tie, necklets, bracelets, belts, etc., that might accidentally be caught in high-speed motion.
- (8) Do not operate the Electric Trimmer if you are not the well-informed, designated operator.

II. Important Cautions

- (1) Do not use the Electric Trimmer in any other purpose than cutting tree branches. (Strictly forbidden to use the Electric Trimmer to cut metal or other hard or tough material.).
- (2) If the switch is off while the Electric Trimmer is still working, please do not operate it and contact original manufacturer to repair.
- (3) Do not modify the Electric Trimmer with other none compatible components than provided.
- (4) In the process of adjusting, maintaining or changing components of the Electric Trimmer, please make sure to unplug the power cable from the Electric Trimmer. Please confirm it is power off before any disassembling procedures ◦

- (5) When the Electric Trimmer and accessories are not in use, it must be kept in dry area, away from reachable places of children. It is recommended to keep it locked in safety place.
- (6) The blades must be kept sharp that will result in the best cutting ability. Keep the good habit of cleaning and lubricating it right after use, or, once a month when it is in storage. Replace the accessories when it is necessary. Checking the power cable regularly, if there is any damage, please contact the factory or dealer to purchase the replacements immediately before using it again.
- (7) Before plugging in the Electric Trimmer, it must be verified that the switch is at off position. The toggle switch or the trigger switch must not be turned on and off frequently for no purpose at all. They must be turned on and off when the Electric Trimmer is used in operation.
- (8) Please follow the safety notes herein. Any improper usage, maintenance, or modifications will not be covered by the warranty, and any injuries and/or damages caused are the full responsibility of the user. Damages to the Electric Trimmer due to improper usage, maintenance, modifications, or not following the direction of this User's Guide and Safety Notes will be the sole responsibility of the user. Parts, components or the entire system will be repaired and/or replaced at operator's own expense.
- (9) Do not allow untrained person to operate the Electric Trimmer.

III. Safety For Appliance

- (1) The Electric Trimmer plug must be compatible with socket and cannot be modified/replaced.
- (2) Do not step on power cable and/or pull power cable when moving the Electric Trimmer. Never pull the power cable itself to unplug or disconnect connector. Holding the plug/connector on hand to unplug or disconnect. Avoid to get close to fire, petrochemicals, sharp/pointing objects, moving objects (running lathe, turn tables, etc.) and wet places to store or to operate the Electric Trimmer.
- (3) To avoid causing fire, electric shock or injury, the charger provided by the original manufacturer must be used; any another brand of charger employed with this Electric Trimmer battery, it may explode and lead to injure and damage.

IV. Safety At Workplace

- (1) Keep clean and bright at workplace, it can enhance your safety and keep good eyesight when working.
- (2) Do not operate the Electric Trimmer in flammable and explosive environment such as flammable liquid, gas, and dust, it may cause fire.
- (3) Do not use the Electric Trimmer in water, on rainy days and/or wet environment that can avoid electric shock
- (4) Do not allow children to get close at workplace and keep none work-related personnel away from the workplace.

Operation Instructions



1. Take out the Electric Trimmer, battery, power cable and battery bag from tool box.



2. According to the habit of the operator (right-handed or left-handed), orient the battery's power cable connector (exit from right or left) and put battery into the back pack of battery.



3. Plug in power cable and lock screw tightly (Plug has key way to guide it in, please do not force the plug in.).



4. The operator wear battery sling.



5. Power cable connect to Electric Trimmer socket and tighten the screw.



6. Turn on the power switch, the Green LED light will be on, also, there will be an audible beep to indicate the power supplier is normal, red light represents that the battery must be charged.

If the connection is abnormal between the battery and the electric trimmer, there will be continuous short pulses of beeps alarm, please turn off the power switch, and re-connect all plugs to battery and electric trimmer.



7. Pull the trigger 3 times, the Electric Trimmer blade will open automatically. The blade movement can be controlled by the motion of the trigger. Now the electric Trimmer is ready to cut when the trigger is pulled and release the trigger to return to opening position.



8. When pull the trigger, the blade starts to close; at any point of time, when the finger releases from the trigger, the blade will return to opening position.



9. To adjust the blade opening width: when the Electric Trimmer is connected to the battery, and power switch is ON, give a long press to the red button on the left hand side of the protection housing as shown in the picture, there will be an alert audible beep, then, pull the trigger one time, the blade opening can be changed from wide to narrow. Follow the same procedure again to change it back to wide opening.



10. To turn off the Electric Trimmer: pull the trigger all the way and hold for at least three (3) seconds with an audible beep, then, the blade will be closed, release the trigger and turn the power switch OFF.

Notes to Operation of Electric Trimmer

1. This product can only be used for trimming fruit trees and garden vegetation branches. Any other usage is forbidden and not under the warrantee coverage.
2. This product is designed to trim wooden branch of no bigger than 30 mm in diameter.
3. In the process of cutting, the Electric Trimmer will automatically open when it meets harder material than its ability to cut. When the blade is completely open, it can be used as normal trimming again. Caution must be taken: In the process of retrieving the blade from the jamming point, NEVER shake/twist/wiggle around the blades out of the jamming point to avoid any damage to the body of the blade. Trying to remove out of jamming with gentle pulling and push, following the contour of the blade, back and forth, until the blade is loosen.
4. Never operate the Electric Trimmer when the outer protecting enclosure is taken apart or not in their proper positions.
5. While the Electric Trimmer power is switched on, NEVER touch the blades with fingers or human body or living animals. This is to prevent the Electric Trimmer to hurt/damage anything unintentionally.
6. This product is only for grown-ups to use it on vegetation. Any other usage or improper operations not covered in this menu, is user's responsibility for any accident or damage to lives and properties caused.

7. This product will generate electromagnetic disturbances, which could have had some influences or possibly even irreversible damages on implanted mechanisms in human bodies. Consult physicians and the implanted mechanism producers before usage.
8. Every usage of the Electric Trimmer must be followed by proper cleaning and maintenances: Thoroughly clean the blades, then grease with oil to lubricate the blades and prevent rusting. Refer to the Maintenances and Adjustments Section.
9. When the cutting is not smooth, please switch off the power and disconnect the power cable, then, examine the blades to see if they are getting dull. Slightly polishing of the blades may help to sharpen the blades. Caution must be taken to thoroughly clean the blades and remove all particles away from the blades after polishing. Then, re-connect the power cable and turn the switch on to continue the operations. Refer to the Maintenances and Adjustments Section.
10. When finished the utilization and maintenances of the Electric Trimmer, please put the Electric Trimmer and all components back to their proper positions in the container.

Battery Charging Operation Instructions



1. When the LED on the battery is 1 Green Light, indicating that the battery need recharge. Please take the charger and the battery out of the box.



2. First connect the charging cord from the charger to the battery, then, make sure the battery switch is at OFF position, and power cable is disconnected. Plug the charger to the wall electric outlet (AC 100V~240V). (There is a fool-proof device in the plug to prevent plug-in the wrong direction. Please follow the key direction to plug it in.).



3. The LED on the charger is RED indicating that the charger is charging the battery.

Complete charging may require four and half (4.5) to five (5) hours.



4. When the LED on the charger is GREEN indicating the battery is completely charged.



5. After charging, please remove the charger plug from the wall electric outlet first, then, take the plug off the battery. Put the charger back to its container.



6. After charging the battery, follow the Electric Trimmer “Operational Instructions” to connect the battery and the Electric Trimmer and get into cutting and trimming operations.

Notes on the Usage of Battery

1. Please use the electric charger comes with this Electric Trimmer to charge the battery. Any other electric battery charger WILL cause damages or destructions (explosions) of the battery and possibly fire.
2. Battery switch MUST be at off position before the starting and the entire duration of charging of the battery.
3. Unplug the Electric Trimmer from the battery pack before the charging process.
4. Never use other brand's battery to operate the Electric Trimmer. The incompatibility of the battery and the Electric Trimmer will cause damages or destructions to both, and possibly fire as well.
5. Under abnormal conditions, if the battery fluid spilt, please avoid direct contact with human skin or eyes. If it does happen, please flush thoroughly with huge amount of water and consult with physicians immediately. The fluid from the battery is very corrosive, can cause severe burning and injury.
6. It is recommended to seal the battery plug with a tape before charging. To avoid small metallic particles, metal chips or objects, e.g., coins, screws, paper clips, paper staples, metallic pins, needles and nails to get near the battery plug. These small particles may cause short circuit of the battery to create electric shock, explosion, and fire.
7. If the battery is stored away for long period of time, please remember to recharge the battery at least once a month.
8. When the battery is stored away, please make sure the switch of the battery is at OFF position.
9. Please avoid shock, strong impact or drop on the floor of the battery. If the out appearances of the battery is deformed or damaged, please contact your local dealer or the factory immediately.
10. Battery must be stored in cool and dry place, avoid the exposure of the battery to flammable material, humid environments, or direct sun shine.
11. When the battery reaches its life expectancy, please DONOT disassemble the battery. Use local recommended method to recycle the battery (put plastic tape over the battery plug to prevent short circuit explosion), or give it to recycle personnel to handle. Never treat it as normal garbage to be thrown away in normal garbage can.

Maintenances and Adjustments procedures for Electric Trimmer

1. Inner cleaning Procedure 1-1 至 1-10



Required tool



1-1

Connect to the power cable



1-2

Turn the power on and open the Electric Trimmer blades.



1-3

Turn the power off and separate the power cable



1-4

Disassemble the right side screw with the hex key provided



1-5

Disassemble the left side screw with the hex key provided



1-6

Knock on the trigger guard slightly, gently



1-7

Knock protection housing loose, gently



1-8

Take out the protection housing



1-9

Cleaning with brush



1-10

Wipe with dry towel

1-11 Following steps 6-1 ~ 6-6(P.16) to put the Electric Trimmer together

2. Grease the Lead screw Procedure 2-1~2-22

Before taking the steps, please follow the procedures 1-1~1-2(P.10) as mentioned above.



2-1

Position the blade opening to small opening



2-2

Turn the power off and separate the power cable



2-3

Disassemble the right side screw with the hex key provided



2-4

Disassemble the left side screw with the hex key provided



2-5

Knock on the trigger guard slightly, gently



2-6

Knock protection housing loose, gently.



2-7

Take out the protection housing



2-8

Take off the front c-clip from the acting arm.



2-9

Take off the locking pin from the acting arm.



2-10

Pull the acting arms out.



2-11

Take off the left side c-clip from the acting arm.



2-12

Take off the right side c-clip from the acting arm.



2-13

Remove the right side acting arm.



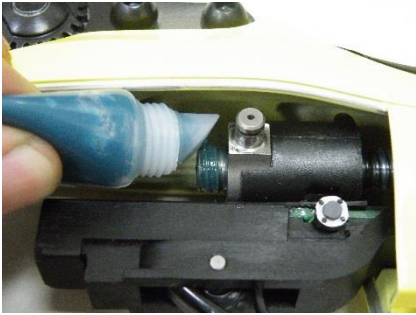
2-14

Remove the left side acting arm.



2-15

Remove the lead screw cover



2-16

Properly grease the lead screw



2-17

Insert the lead screw cover



2-18

Insert the acting arms



2-19

Insert c-clips to the two acting arms



2-20

Insert the front locking pin to the acting arms



2-21

Insert the front c-clip to the acting arms

2-22 following steps 6-1 ~ 6-4(P.16) to put the Electric Trimmer together

3. Polish the blades Procedure 3-1~3-3

Before taking the steps, please follow the procedures 1-1 ~ 1-3(P.10 &P.11) as mentioned above.



3-1

Polish the front side



3-2

Polish the back side



3-3

Wipe the blade clean

4. Adjust the gap of blades. Procedure 4-1~4-8

Before taking the steps, please follow the procedures 1-1 ~ 1-8(P.10 &P.11) as mentioned above.



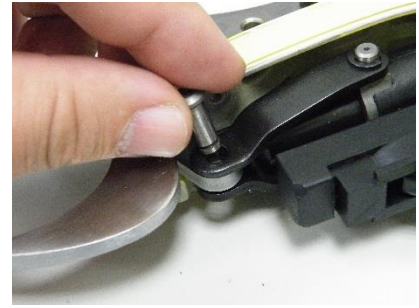
4-1

Loose the fixed screw and spur gear locker



4-2

Flat screw drive to remove the c-clip



4-3

Remove locking pin



4-4

Adjust the tightness of the set screw with the wrench provided and check the gap of blade



4-5

Insert the locking pin



4-6

Put c-clip back in place



4-7

Reset the spur gear locker and tighten the screw

4-8 Following steps 6-1 ~ 6-6(P.16) to put the Electric Trimmer together

5. Replace the blades. Procedure 5-1~5-9 ,

Before taking the steps, please follow the procedures 1-1 ~ 1-8(P.10 &P.11), followed by procedure 4-1 ~ 4-3(P.14) as mentioned above.



5-1

Disassemble the fixed screw with the hex key provided



5-2

Take out the blade assembly



5-3

Disassemble the adjustment screw and spur gear nut with the wrench provided



5-4

Replace the new blade



5-5

Lubricate the adjustment screw



5-6

Lubricate the groove of the blade



5-7

Assemble the blades with the wrench provided



5-8

Tighten the blade assembly to housing with set screw. Using hex key provided

5-9 Following steps 4-4 ~ 4-7(P.14) and steps 6-1~6-4(P.16) to put the Electric Trimmer together.

6. Assemble and test Procedure 6-1~6-6



6-1

Assemble the protection housing



6-2

Tighten the screws on both sides.
Use the hex key provided



6-3

Connect to the power cable to
battery



6-4

Turn the power on to test that it is
operating normally



6-5

Turn off the power



6-6

Separate the power cable

Warranty

1. The warranty of the Electric Trimmer is one year from the date of purchase, under normal operation conditions except the follows:
 - (1) Improper usage (e.g. to use Electric Trimmer to cut metallic material.)
 - (2) Improper transportation method induced damages. All components must be inside the container provided, at their each individual locations for transportations.
 - (3) Any alterations or modifications induced damages. Damages by disassembled unit other than normal maintenances and adjustments covered in this menu
 - (4) Natural and unnatural disasters (fire, lightening, electric shocks, flood or water damages, etc.) of irresistible causes induced damages.
 - (5) Utilizing non-original factory components, battery, and/or accessories with the Electric Trimmer induced damages..
 - (6) Do not operate the Electric Trimmer out doors in rainy days.
 - (7) Except wearable components (e.g. blades), any defects components or unit from the factory, other than those mentioned above, will be replaced without charge. Factory reserve the right to determine and judge the origin of the defects.
2. To avoid unnecessary confusions, please note that:

When the product exceeds its warranty period, any maintenance or change of parts/components, the factory will charge the expenses of the work done on the maintenance and the parts/components changed.

Maintenances And Adjustments

1. **Protective housing cleaning** (following the disassemble procedures on Page 9)

DONOT immerse the Electric Trimmer into water. DONOT use any cleaning agent. Just wipe with wrung-dry wet towel on the housing surface. After every usage, the blades must be clean thoroughly. Use clean dry towel to put on a thin layer of rust-preventing oil to cover the blade, to isolate vapor and air from corroding the blades. After severe usages of the Electric Trimmer, please open the protecting housing, and use a brush to clean remaining wood chips, dirt, leaves, etc.

2. **Polishing the blades** (following the polishing procedures on Page 11)

The procedures determines the trimming quality and life expectancy of blade. If the Electric Trimmer becomes sluggish in cutting or hard to cut, please check the blades if they have been corroded or with dull edges, polish the blades with grindstone properly with oil lubricant. The grinding frequency is depended on the hardness of the wood trimmed. Therefore, the blades must be inspected constantly, in the basis of every 15 minutes a time, then decide the grinding frequency by yourself.

3. **Adjust the blade opening**(following the adjustment of the blade gap procedures on page 12)

Using the tool in the box to open the spur gear locker, then use a wrench to relax or tighten the spur gear to adjust the gap between blades.

4. **Change the blade** (following the replacement of the blade procedures on page 13)

After polishing many times of the blade, the Electric Trimmer cannot cut the branch effectively any more. The blades must be changed. After the replacement of the blades, it has to be tested to confirm the opening and closing are normal, and the cutting operation is okay.

5. **Storage**

After operating or maintaining the Electric Trimmer blades, please remove the power cable from the Electric Trimmer and battery, turn the power off and put all accessories back in the container in their proper locations. The device has to avoid exposure to extreme environmental conditions, such as high temperature, cold, wet, dirt, high voltages, and direct sunshine.

Suggestion for storage in dry environment as below :

Short-term storage of temperature for 1 month	-20°C ~+60°C
Storage of temperature for 1~6 months	-10°C ~+40°C
Storage of temperature for more than 6 months	0°C ~+30°C

※To prevent battery from degrading for long term storage, please recharge the battery before storing, inspect and recharge once a month regularly.

Trouble-shooting

Condition	Possible causes	Suggesting procedures
Cannot operate	Not turn on the switch	Turn on the switch
	Not pull the trigger 3 times consecutively.	Pull the trigger 3 times consecutively.
	Run out of the battery	Recharge the battery
	Power cable improper connection	Reconnect the power cable and tighten it
	The switch does not work	Return ET to the original factory to repair
Blade opening cannot be adjusted	Protective housing jammed with the button	Take the protective housing apart and re-assemble the protective housing again to avoid jamming.
	The adjustment button does not work	Return ET to the original factory to repair
Odd sound when trimming	Long term storage without lubrication of blades	Return ET to the original factory to repair
	Component loosen	
The blade becomes hot easily	Blade gap adjustment screw too tight	Loosen the adjustment set screw
	Not lubricated blades	grease with oil to lubricate the blades
	Dull blades	Polish or replace the blades
	Notched blade edge	Polish or replace the blades
Cutting effect is not good	Blade gap adjustment screw too loose	Tighten the adjustment set screw
	The blades become dull	Polish or replace the blades
Not cutting through	Battery voltage is low	Recharge the battery

Trouble-shooting

Condition	Possible causes	Suggesting procedures
Intermittent on and off, cannot be controlled	Power cable not plug in properly	Reconnect the power cable and tighten the screw
	Improper connection	Return ET to the original factory to repair
Charger red light is on, cannot recharge the battery	Power switch is ON	Turn off the switch
	Long time without charging battery	Replace the battery
	Charge more than normal time	Replace the battery
	Charger is not working	Replace the charger

※Notes

1. For any maintenance operation, the power cable must be separated from the Electric Trimmer.
2. Please prepare a flat screw driver (for c-clip) and a rubber hammer handy while doing maintenance.
3. Remember to clean the Electric Trimmer with dry cloth and brush.
4. Caution must be taken while remove the rear c-clip on the active arms, DO NOT touch and damage the black button of Blade Opening Adjustment Button under any circumstances.
5. Keep the c-clips in a safe place after their removal from the Electric Trimmer, and put them back to the groove on the locking pin while re-assemble the Electric Trimmer together. (If you accidentally lose the c-clip(s), you can buy it from hardware store: metric c-clips dimensions: outer diameter 9mm, inner diameter of 4mm and thickness 0.8mm, i.e., OD 9mm x ID 4mm x t 0.8mm.).
6. Please put on gloves when touching the blades to avoid any possible injury.

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