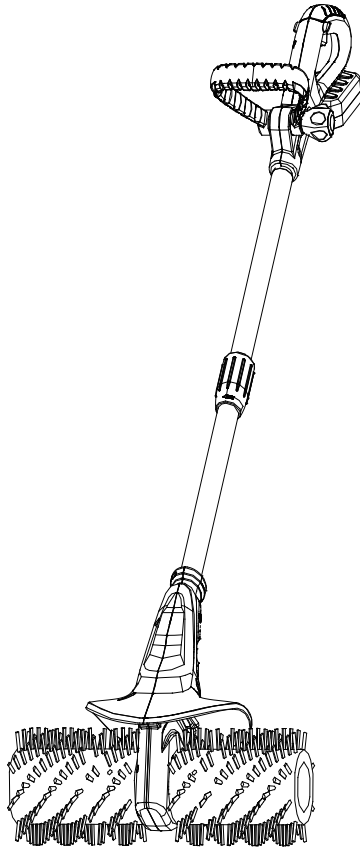




CORDLESS ROTARY BRUSHER



GT57002

User Manual



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**READ THE INSTRUCTIONS THOROUGHLY BEFORE OPERATING THE TOOL
AND KEEP THIS MANUAL FOR FUTURE REFERENCE!**

TECHNICAL DATA

Model	GT57002
Voltage	18VDC
No load speed	280 /min
Max. Working width(mm):	400mm
Battery type	Lithium-ion
Battery capacity	1.3Ah
Working Time	20~25min
Battery charging time	Approx. 4 hours

INTENDED USE

Your rotary brusher has been designed for garden. Do not use for any other purpose. This tool is intended for domestic use only.

Your charger has been designed for charging batteries of the type supplied with this tool. Do not use to charge other batteries.

EXPLANATION OF SAFETY SYMBOLS



- Warning!



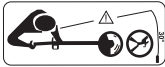
- Always wear eye protection.



- Do not use in rain or wet conditions.



- Read the instruction manual before use



-Keep bystanders away

SAFETY INSTRUCTIONS

WARNING! When using the machine the safety rules must be followed. For your own safety and that of bystanders please read these instructions before operating the machine. Please keep the instructions safe for later use. Safety instructions for cordless rotary brusher

Warnings - Do's

Read and understand the owner's manual. Pay particular attention to all sections regarding safety.

1. Always keep a firm grip on both handles while the tines are moving. BE AWARE!! The tines may coast after the triggers are released. Make sure tines have come to a complete stop before letting go of the brusher.
2. Always maintain a firm footing and good balance. Do not overreach while operating the brusher. Before you start to use the brusher, check the work area for obstacles that might cause you to lose your footing, balance or control of the machine.
3. Thoroughly inspect the area where equipment is to be used and remove all objects, which can be thrown by the machine.
4. Always keep area clear of children, pets, and bystanders.
5. Always stay alert. Watch what you are doing and use common sense. Do not operate unit when fatigued.
6. Always dress properly. Do not wear loose clothing or jewelry, they might get caught in moving parts. Use sturdy gloves. Gloves reduce the transmission of vibration to your hands. Prolonged exposure to vibration can cause numbness and other ailments.
7. While working, always wear substantial footwear and long trousers. Do not operate the equipment when barefoot or wearing open sandals.



8. Always wear eye protection.
9. Keep all nuts, bolts and screws tight to be sure the equipment is in safe working condition.
10. Use extreme caution when reversing or pulling the machine towards you.
11. Work only in daylight or good artificial light.
12. Always be sure of your footing on slopes.
13. Exercise extreme caution when changing direction on slopes.
14. Always keep a safe distance between two or more people when working together.
15. Always inspect your unit before each use and ensure that all handles, guards and fasteners are secure, operating, and in place. Be sure that all electrical cords are not damaged or broken.
16. Always maintain and examine your brusher with care. Follow maintenance instructions given in manual.
17. Always store brusher in a sheltered area (a dry place), not accessible to children.

Warnings - Don'ts

1. Don't use brusher with one hand. Keep both hands on handles with fingers and thumbs encircling the grips when the tines are moving.
2. Don't overreach. Keep a good footing at all times.
3. Don't run with the machine, walk.
4. Don't work on excessively steep slopes.
5. Don't attempt to clear tines while they are moving. Never try to remove jammed material before unplugging the cord and making sure the tines have stopped completely.
6. Don't allow children or incapable people to operate this brusher.
7. Don't operate while under the influence of alcohol or drugs.
8. Don't attempt to repair this brusher. Have repairs made by a qualified dealer or repairman. See that only original MANTIS parts are used.
9. Don't run the brusher in rain or wet conditions

Additional safety instructions for battery

- Never attempt to open for any reason
- Do not expose to water
- Do not incinerate the battery pack even if it is severely damaged or is completely worn out. The battery pack can explode in a fire.
- Do not store in locations where the temperature may exceed 40 °C
- Do not leave the battery pack in the charger when the charging is finished, otherwise battery leakage may occur.
- Charge only at room temperature.
- Charge only at using the charger provided with the tool (see technical data)



- Before charging , make sure that the battery is dry and clean.
- Use only the correct type of battery for the tool(see technical data).
- When dispose of batteries follow the instructions given in the section "protecting the environment".
- Under extreme conditions ,battery leakage may occur .When you notice liquid on the battery, proceed as follows:
- Carefully wipe the liquid off using a cloth. Avoid skin contact.
- In case of skin or eye contact, follow the instructions below.
The battery fluid, a 25-30% solution of potassium hydroxide, can be harmful. In case of skin contact, immediately rinse with water. Neutralize with a mild acid such as lemon juice or vinegar. In case of eye contact, rinse abundantly with clean water for at least 10 minutes. Consult a physician.

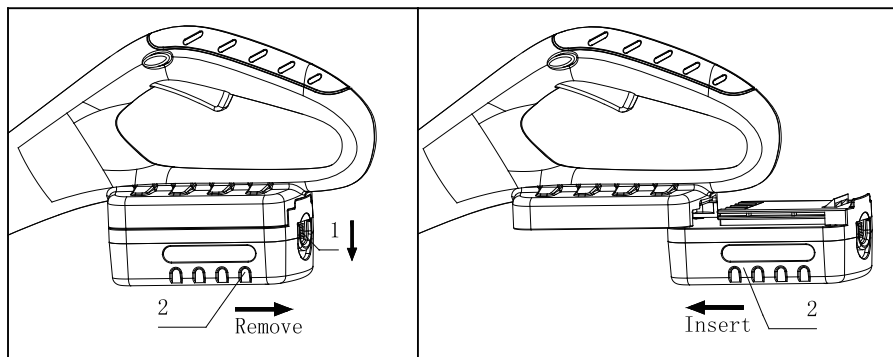
NOTE: The batteries in your battery pack are the Lithium-Ion type. Do not dispose of battery packs/batteries into household waste, fire or water. Battery packs/batteries should be collected, recycled or disposed of in an environmental-friendly manner.

ASSEMBLY INSTRUCTIONS

For Your Safety



Warning! Remove the battery pack before cleaning the tool.



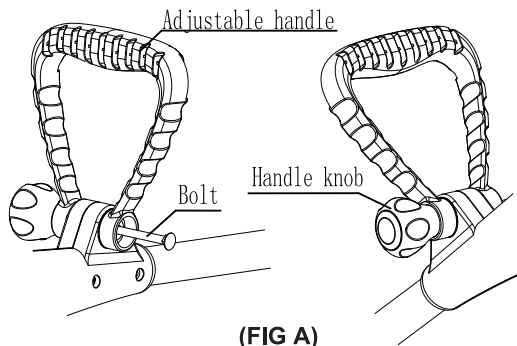
Insert/remove the battery pack

- Always release the On/Off switch before insertion or removal of the battery pack.
- To remove the battery pack, depress the button 1 on end of the battery pack, and then remove the pack 2 from the tool.
- To insert the battery pack, align the latches on both side of the battery cartridge with the groove in the housing and slip it into place. Always insert it all the way until it locks in place with a little click. If not, it may accidentally fall out of the tool, causing injury to you or someone around you.

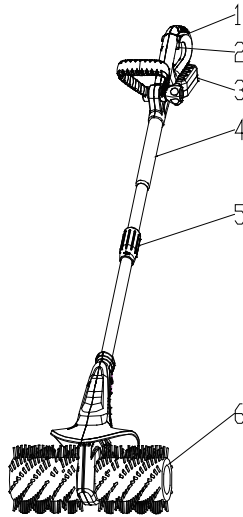
Do not use force when inserting the battery pack. If the cartridge does not slide in easily, it is not being inserted correctly.

Attach adjustable handle (FIG A)

- a. Turn the handle knob and Draw out the bolt from the adjustable handle.
- b. Insert the adjustable handle in the machine handle.
- c. Insert the bolt and handle knob, then turn the handle knob lightly tighten.
- d. Before tightening completely, turn the adjustable handle in desired angle. When adjustable handle is in desired angle, tighten the handle knob securely.



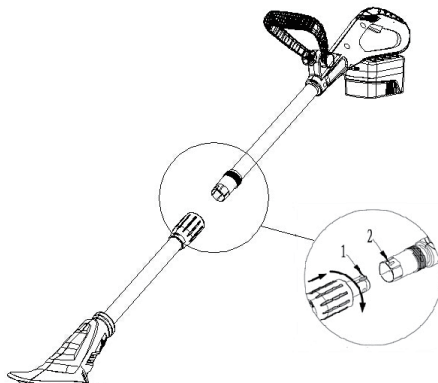
OVERVIEW (FIG B)



(FIG B)

1. Lock-off button 2. On/off switch 3. Battery pack 4. Grip Area 5. lock Nut 6. Brush

OPERATION



(FIG C)

1. Handle assembly 2. Working part

The Head assembly: (FIG C)

1. When inserted, the arrow 1 would have to target the arrow 2, and must be inserted fully. as shown in Fig

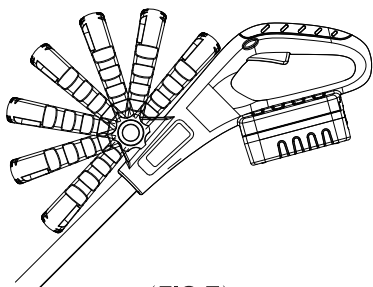


(FIG D)

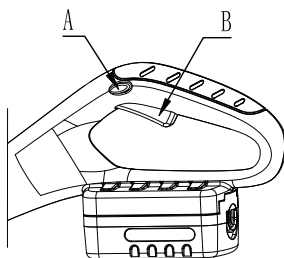
2. Turn the locking knob in the “LOCK” direction. (IMPORTANT: Must turn the locking knob tightly.). See Fig D.

Setting the adjustable handle angle: (FIG E)

Loosen the locking button and turn adjustable handle to required angle. There are 7 working positions. Then turn the locking button tightly.



(FIG E)



(FIG E)

Starting the Rotary brusher: (FIG F)

Switching the Rotary brusher on:

1. Press and hold the safety lock-off button (A) and then press the start button (B) on the handle.

2. Release the safety lock-off button (A) again.

Switching the Rotary brusher off:

1. Release the start button (B) on the handle.



RISK OF INJURY! Cutting elements continue to rotate after the motor is switched off. Do not try to stop the cutting device with your hands. Always let it come to a stop by itself.

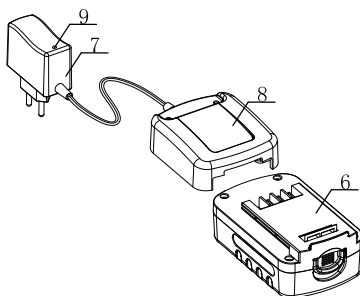
CHARGING THE BATTERY (FIG G)

The battery needs to be charged before first use and whenever it fails to produce sufficient power on jobs that were easily done before.

The battery may become warm while charging; this is normal and does not indicate a problem.

NOTE: After several charge and discharge cycles, the battery will attain full capacity.

DO NOT CHARGE THE BATTERY AT AMBIENT TEMPERATURES BELOW 4°C OR ABOVE 40°C. RECOMMEND CHARGING TEMPERATURE: APPROX. 24°C.



- (1). Connect the charger 7 to the charger station 8.
- (2). Plug the charger into an appropriate AC power outlet. The LED 9 lights green to tell you that the charger is ready for use.
- (3). Insert the charger station 8 into the battery pack 6, as shown in Fig 13, making sure the charger station is fully seated in the battery pack. The LED 9 lights red to tell you that the battery pack is on charge.

Attention! It can not be charged if charging the battery immediately after using the machine. The battery pack should be cooling for a period of time. The LED 9 lights from green to red means it can be charged.



- (4). The battery pack will be fully charged in about 4 hours. And the LED 9 lights green again to tell you that the battery pack is fully charged.

IMPORTANT CHARGING NOTES

Longest life and best performance can be obtained if the battery pack is charged when the air temperature is between 18-24 °C. Do not charge the battery pack in a very low or very high air temperature. This is important and will prevent serious damage to the battery pack.

1. When using your tool continuously, the batteries in your battery pack will become hot. You should let a hot battery pack cool down for approximately 30 minutes before attempting to recharge.
2. The charger and battery pack may become warm to touch while charging. This is a normal condition, and does not indicate a problem.
3. Use the charger in normal room temperatures whenever possible. To prevent overheating, do not cover the charger and do not charge battery packs in direct sunlight or near heat sources.
4. If the battery pack does not charge properly –
 - (1).check current at receptacle by plugging in a lamp or other appliance.
 - (2) move charger and battery pack to a location where the surrounding air temperature is approximately 18-24 °C.
 - (3).if charging problems persist, take or send the tool, battery pack and charger to your local service center.
5. The battery pack should be recharged when it fails to produce sufficient power on jobs which were easily done previously. DO NOT CONTINUE to use under these conditions. Follow the charging procedure. You may also charge a partially used pack whenever you desire with no adverse affect on the battery pack.
6. Under certain conditions, with the charger plugged in to the power supply, the exposed charging contacts inside the charger can be shorted by foreign material. Foreign materials of a conductive nature such as, but no limited to, steel wool, aluminum foil, or any buildup of metallic particles should be kept away from charger cavities. Always unplug the charger from the power supply when there is no battery pack in the cavity. Unplug charger before attempting to clean.
7. Do not immerse charger in water or any other liquid.
8. **WARNING!** Don't allow any liquid to get inside charger. Electric shock may result. To facilitate the cooling of the battery pack after use, avoid placing the charger or battery pack in a warm environment such as in a metal shed, or an uninsulated



trailer.

9. CAUTION! Never attempt to open the battery pack for any reason. If the plastic housing of the battery pack breaks or cracks, return to a service center for recycling; do not put it into further use

MAINTENANCE

1. After use, remove the battery pack from the rotary brusher;
2. When not in use store the machine out of the reach of children;
3. Use only manufacturer recommended replacement parts and accessories;
4. To clean the tool, remove battery pack and use only mild soap and a damp cloth to clean the tool. Do not immerse tool in water or squirt it with a hose. Do not allow any liquid to get inside it. Do not clean with a pressure washer.