

1. Charge the battery and leave it off if the unit. DO NOT leave the battery on the charger. Store the battery in temperature between 40°F-120°F.
2. Remove the auger from the powerhead and apply a thin layer of grease to the driveshaft.
3. Remove all debris from auger and powerhead.
4. Attach the blade protector to bottom of auger.
5. Keep in a dry, moisture-free area.

! IMPORTANT

CONNECT THE BATTERY TO THE CHARGER EVERY THREE MONTHS TO ENSURE THAT MAINTAINS A FULL CHARGE DURING EXTENDED STORAGE.

SERVICE AND REPAIR

Service Information

We build quality and durability into the design of our products; but no amount of careful design by us, and careful maintenance by you, can guarantee a repair-free life for your auger. Most repairs will be minor, and easily fixed by following the suggestions in the troubleshooting guide in this section.

The guide will help you pinpoint the causes of common problems and identify remedies.

For more complicated repairs, contact customer service.

We will always be glad to answer any questions you have, or help you find suitable assistance. To order parts or inquire about warranty, call or write us at the address found below.

TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	REMEDY/ACTION
Powerhead starts, then stops	<ol style="list-style-type: none"> 1. Battery low on power 2. Battery may be slightly under temperature 	<ol style="list-style-type: none"> 1. Charge battery 2. Start Heating mode and waiting.
Auger jumps on ice	<ol style="list-style-type: none"> 1. Blades damaged or sharpened incorrectly 2. Ice point damaged or sharpened incorrectly 	<ol style="list-style-type: none"> 1. Replace with new blades 2. Replace with new ice point
Auger cuts slowly	<ol style="list-style-type: none"> 1. Dull blades 2. Dull ice point 	<ol style="list-style-type: none"> 1. Replace with new blades 2. Replace with new ice point

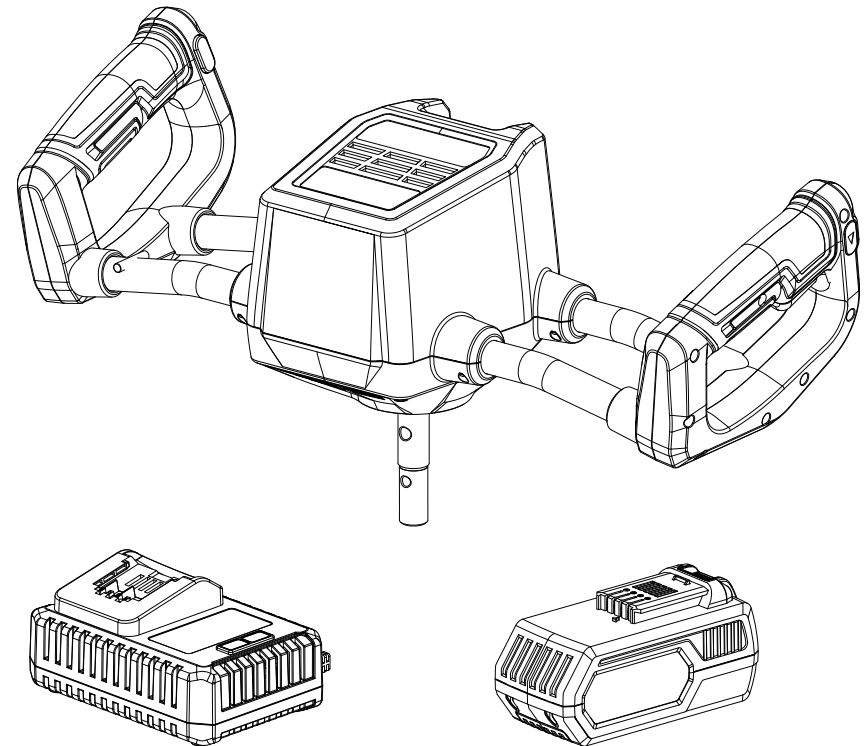
Email customer service at canty@cantypowertool.com if above remedies fail. Please visit our website: www.cantypowertools.com for additional parts or accessories.

MINOVA

Power Head for

Ice Auger SP-02

Earth Auger SP-02E



Operator's Manual & Original Operating Instructions

Please read the enclosed safety and operating instructions before you use the power head the first time in order to ensure safe and proper handling. Please take the time to read this manual carefully to learn how to correctly operate and maintain your power head.

Save these instructions for future reference.

WARNINGS AND SAFETY PRECAUTIONS

Operator's Responsibility

NOTE: If you are planning to use the battery multiple times in a single outing, it is ideal to remove the battery and place in a warm location. This is CRITICALLY important in extremely cold weather conditions.

If your battery pack has the function of Battery thermal management, please check the instructions on Page 7 before operating the machine.

Accurate, safe and effective use of this product is the operator's responsibility.

- Read and follow all safety instructions.
- Maintain this machine according to directions and schedule included in this operator's manual.
- Ensure that anyone who uses the machine is familiar with and understand all controls and safety precautions.
- Do not discard battery into trash can. Discard the battery according to your local, state or federal or country's regulations.

Safety Messages

Your manual contains special messages to bring attention to potential safety concerns, as well as helpful operating and servicing information. Please read all the information carefully to avoid injury and machine damage.

NOTE: General information is given throughout the manual that may help the operator in the operation or service of the product.



THIS SYMBOL POINTS OUT IMPORTANT SAFETY INSTRUCTIONS WHICH IF NOT FOLLOWED COULD ENDANGER YOUR PERSONAL SAFETY.

Before Operating Unit:

Please read this section carefully. Read entire operating and maintenance instructions. Failure to follow instructions could result in injury or death. Operate the machine according to the safety instructions outlined here an inserted throughout the text. Anyone who uses this machine must read the instructions and be familiar with the controls.



WARNING

WARNING INDICATES A HAZARD WHICH, IF NOT AVOIDED, COULD RESULT IN DEATH OR SERIOUS INJURY AND/ OR PROPERTY DAMAGE.

Battery Thermal Management Mode

Power Indication:

Double click to to start battery heating mode

1. Preheating State:Temperature is below 5°F/-15°C.Not recommended for work.
2. Preheating State:Temperature is below 23°F / -5°C.Not recommended for work.
3. Preheating State:Temperature is about 37.4°F /3°C.Meet working condition.
4. Perfect:Temperature monitoring in real time

Note:Heating mode will turn off automatically after 2 hours.Double click to close the heating mode immediately.

One of the LED lights flashes three times quickly after startup indicates the heating mode faulty.Please stop using the heating mode.The battery can be operated at 23°F/-5°C but low performance.It will have high performance above the temperature.If you operate the machine in low temperature environment for long time,please contact us.

Data from factory laboratory : The battery will start the heating mode when the temperature is 5°F / -15°C and can satisfy the working condition after 15 minutes.

NOTE: Recharging the battery after each use is best for the life of the battery.

1. Place the battery back onto the powerhead when ready to use.

NOTE: Battery should be off of the powerhead when not in use.

MAINTENANCE AND STORAGE

Read the maintenance schedule and observe these recommendations to extend the life of your electric auger.

Good maintenance is essential for safe, economical, and trouble-free operation. To help you properly care for your powerhead, the following pages include a maintenance schedule, routine inspection procedures, and simple maintenance procedures using basic hand tools. Other service tasks that are more difficult, or require special tools, are beat handled by professionals and are normally wet conditions, consult customer service for recommendations applicable to your individual needs and use.

Maintenance and Schedule

MAINTENANCE ITEM		Before each day's use	Every 500 complete charges	Yearly
Check bolts and nuts		X		
Battery	Charge	X		
	Replace		X	
Sharpen/Replace Blades				X

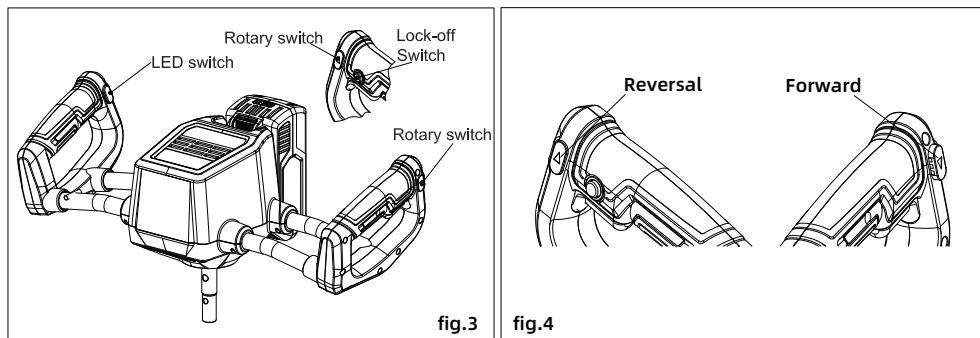
Transporting Your Ice Auger

- Remove the battery if transporting the auger.

Long-Term Storage

If your ice auger will not be run for more than one month, prepare it for long-term storage.

Note: If you are planning to use the battery multiple times in a single outing, it is ideal to remove the battery and place in a warm location. This is especially important in cold weather conditions.



Reverse Switch Operation

To use reverse operation function to flush hole of unwanted debris do as follows: (Fig.4)

1. To activate reverse function, depress the reverse switch and then operate the Lock-off Switch.
2. To activate forward function, depress the Forward button and then operate the Lock-off Switch.

To Flush an ice hole, do as follows:

1. Place the auger half way down the hole with the auger starting in the hole. The top of the auger flight must be above the water and slush.
2. Activate reverse function and continue to lower the auger into the hole. The lower ring of the auger must exit the bottom of the hole.
3. After a few seconds of reverse operation, release the operating trigger.

NOTE: KEEP POWERHEAD CLEAR OF WATER. Water will come back up the hole and overflow.

4. Repeat the above steps three times to clear the hole.
5. If the auger is stuck by rock in soil during drilling with earth auger, please stop and start the reverse function to get the auger out of rock in soil. Restart the forward rotation function and turn on after slightly lifting. Do not apply pressure downwards.

Battery Charging and Monitoring

1. Remove the battery by sliding it off of the powerhead.
2. Plug the battery into a 100-240AC outlet.
3. Slide the battery into the charger.
4. The charger red indicator light should be lighted.
5. When indicator light is lit solid green, the battery is fully charged.
6. Once the battery has been fully charged, unplug the charger from the wall.
7. Remove the battery from the charger.

⚠ CAUTION

CAUTION INDICATED YOU CAN BE HURT OR YOUR EQUIPMENT DAMAGE IF THE SAFETY INSTRUCTIONS THAT FOLLOW THIS SIGNAL WORD ARE NOT OBEYED.

⚠ IMPORTANT

INDICATES HELPFUL INFORMATION FOR PROPER ASSEMBLY, OPERATION, OR MAINTENANCE OF YOUR EQUIPMENT. PLEASE CONSIDER ORIGINAL MINOVA AUGER AS YOUR FIRST CHOICE TO MATCH THE POWERHEAD.

⚠ WARNING

READ AND COMPLY WITH ENTIRE OPERATING AND MAINTENANCE INSTRUCTIONS FOR THIS MACHINE, IN ADDITION TO ALL SAFETY INSTRUCTIONS. FAILURE TO FOLLOW AND/OR COMPLY WITH THESE INSTRUCTIONS COULD RESULT IN LOSS OF MACHINE CONTROL, SERIOUS PERSONAL INJURY OR DEATH TO YOU AND/OR BYSTANDERS, AND EQUIPMENT AND PROPERTY DAMAGE. OPERATE THE MACHINE ACCORDING TO THE SAFETY INSTRUCTIONS OUTLINED HERE AND INSERTED THROUGHOUT THE TEXT. ANYONE WHO USES THIS MACHINE MUST READ THE INSTRUCTIONS AND BE FAMILIAR WITH THE CONTROLS.

10" Ice Auger

8" Ice Auger



8" Earth Auger

6" Earth Auger



Important Safety Precautions

- The ice blades are very sharp. Use extreme caution when drilling a hole or replacing the blades. Put the blade guard on after each use.
- Always keep hand, feet, hair, drawstrings, scarves, hats and loose clothing away from any moving parts on the unit.
- Do not allow children to operate this unit. Do not allow adults to operate the unit without proper instructions.
- Do not operate any power equipment under the influence of alcohol or drugs.
- Keep all screws, nuts and bolts tight.
- The battery must be removed before any repairs are attempted.
- If the unit becomes stuck in a hole, remove the battery before attempting to remove the unit manually.
- Please consider original MINOVA Auger as your first choice.
- DO NOT use this product for other than its intended purpose.
- DO NOT alter this product in any manner; doing so is dangerous and will void the warranty.
- DO NOT continue to use this product in the event of mechanical failure.
- This product produce considerable torque that is felt by the operator. Make sure your feet are firmly planted and that the handle are held firmly while operating the auger.
- During operation, the unit could stop. If this happens, release the operating trigger. Reposition your feet and grip the handles tightly. Then squeeze operating trigger and life the unit gently.
- When drilling holes, do not push down on the unit. If auger begins to drill slowly, blades may need to be sharpened or replaced.
- DO NOT discard the battery into trash can. Discard the battery according to your local, federal or country's regulations.

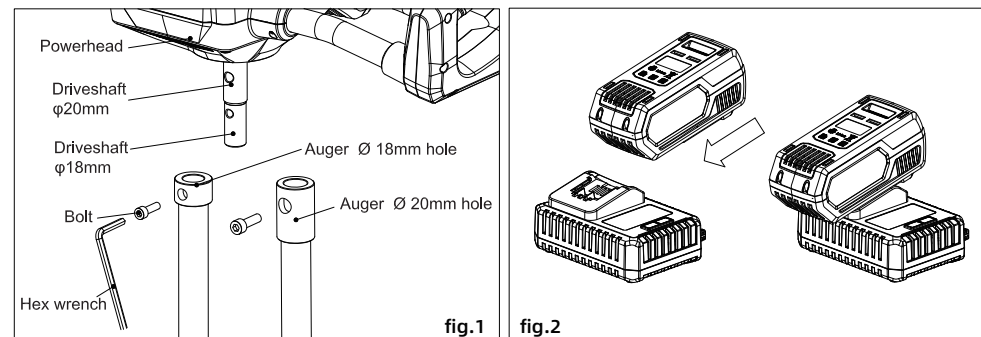
IMPORTANT

CHARGERS COME PACKAGED IN THE AUGER CARTON . BATTERY MUST FULLY CHARGED BEFORE FIRST USE.

UNPACKING AND ASSEMBLY

To Assemble the Auger to the Powerhead

1. Remove the hex wrench that is included in the carton.
2. Insert the hex wrench into the bolt at the top of the auger. Remove the bolt by turning counter-clockwise.
3. Insert the driveshaft of the powerhead into the collar of the auger assembly. (Fig.1)
4. Align the hole in the auger shaft with the hole in the powerhead shaft. Tighten firmly, turning clockwise. There may be some wiggle in the connection; this is normal. If the connection is too tight, disassembly may be difficult.
5. Powerhead has the driveshaft of 18mm&20mm,and the installation hole of MINOVA original auger is 20mm.If you have the auger with 18mm or 20mm specification,it can be equipped with the powerhead.(Fig.1)



To Charge the Battery for First Use

1. Connect the charger to standard 100-240 volt outlet; a red light should appear on the charger. Always connect charger to standard 100-240 volt wall outlet before inserting battery.(Fig.2)
2. Charge the battery until the light on the charger turns solid green.
3. To disconnect the battery, remove the plug from the wall outlet then disconnect the battery from charger.

NOTE: Do not leave the battery on the charger after the charge is complete. Unplug the charger from the wall and remove the battery.

IMPORTANT

DO NOT LEAVE BATTERY ON POWERHEAD WHEN AUGER IS NOT IN USE. ALWAYS DETATCH BATTERY WHEN NOT USING THE ICE AUGER.

To Install the Battery

Slide the battery onto the powerhead until it is fully seated.

IMPORTANT

BATTERY MUST BE FULLY CHARGED BEFORE FIRST USE.

OPERATION

Powerhead is equipped with Battery pack 40V/8.0Ah & 40V/4.0Ah.Only battery pack 40V/4.0Ah has the function of Battery thermal management.

1. Make sure your footing is secure and that you have the unit in the vertical position firmly in your hands.
2. Depress the operating lock lever on your right, then squeeze the operating trigger. (Fig.3)
3. To stop the auger, release the operating trigger.
4. Depress the LED Switch on your left, the LED light on the bottom is on. Depress the LED Switch again, then the LED light is off. (Fig.3)
5. When the auger is not in use, remove the battery.