

# Litheli

OPERATOR'S  
MANUAL

## 2x20V CORDLESS SNOW BLOWER

SKU No.: E1SB47100

Model No.: D10000850

WELCOME TO A BATTERY POWERED LIFE



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service@litheli.com

**⚠ WARNING:** To reduce the risk of injury, the user must read and understand the operator's manual before using this product. Save this manual for future reference.

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## READ ALL INSTRUCTIONS!

 **READ AND UNDERSTAND THE OPERATOR'S MANUAL**

**⚠ WARNING:** Some dust created by power sanding, sawing, grinding, drilling and other construction activities contains chemicals known to the state of California to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:




- Lead from lead-based paints.
- Crystalline silica from bricks and cement and other masonry products, and
- Arsenic and chromium from chemically-treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well-ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

# SAFETY SYMBOLS








The purpose of safety symbols is to attract your attention to possible dangers. The safety symbols and the explanations with them deserve your careful attention and understanding. The symbol warnings do not, by themselves, eliminate any danger. The instructions and warnings they give are no substitutes for proper accident prevention measures.

The following signal words and meanings are intended to explain the levels of risk associated with this product.

SYMBOL	SIGNAL	MEANING
	<b>DANGER</b>	Indicates a hazardous situation, which, if not avoided, will result in death or serious injury.
	<b>WARNING</b>	Indicates a hazardous situation, which, if not avoided, could result in death or serious injury.
	<b>CAUTION</b>	Indicates a hazardous situation, which, if not avoided, may result in minor or moderate injury.
	<b>NOTICE</b>	(Without Safety Alert Symbol) Indicates information considered important, but not related to a potential injury (e.g. messages relating to property damage).

Some of the following symbols may be used on this product. Please study them and learn their meaning. Proper interpretation of these symbols will allow you to operate the product better and safer.

	Read the operator's manual.		<b>WARNING!</b> Do not expose the unit to rain or wet conditions. Keep dry.
	<b>SAFETY ALERT.</b> Indicates a precaution, a warning or a danger.		Wear hearing protection.
	Wear respiratory protection.		Wear eye protection.
	Wear safety footwear.		Wear protective gloves.
	<b>DANGER!</b> Cutting/dismemberment hazard - Keep feet away from the rotating part.		The rotating part will continuously run for several seconds after you turn off the machine.
	Indoor use only. Only use battery charger indoors.		Remove battery from the snow thrower before carrying out any adjustment, servicing or maintenance.

	<p><b>DANGER!</b> Cutting hazard. Keep feet away from the rotating auger.</p>		<p><b>CAUTION!</b> Beware of stone or other foreign objects that could be thrown from the appliance.</p>
	<p>Do not use hands to unclog chute.</p>		<p><b>DANGER!</b> Cutting/dismemberment hazard. Keep hands away from the rotating auger. Stop motor before removing debris.</p>
	<p>Batteries may enter water cycle if disposed of improperly, which can be hazardous to the ecosystem. Do not dispose of old batteries as unsorted municipal waste.</p>		
	<p>Li-Ion battery. This product has been marked with a symbol relating to 'separate collection' for all battery packs. It will then be recycled or dismantled in order to reduce the impact on the environment. Battery packs can be hazardous for the environment and for human health since they contain hazardous substances.</p>		
	<p>This product uses lithium-ion (Li-ion) batteries. Local, state, or federal laws may prohibit disposal of batteries in ordinary trash. Consult your local waste authority for information regarding available recycling and/or disposal options.</p>		

# IMPORTANT SAFETY INSTRUCTIONS

**⚠WARNING:** Only use the accessories that are provided with this product or the accessories approved by manufacture. Use other accessories might increase the risk of injury. Follow the instructions in this manual to properly use the accessories.

**⚠WARNING:** This product can expose you to chemicals including lead and Di(2-ethylhexyl) phthalate (DEHP) which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**⚠WARNING:** When using electric gardening appliances, basic safety precautions should always be followed to reduce the risk of fire, electric shock, or injury to persons, including the following:

**NOTICE:** The "snow mover" in this chapter includes the snow blower as this product is so named.

## READ ALL INSTRUCTIONS

1. Do not use on graveled surface unless the snow mover is adjusted for such a surface in accordance with the operator's manual.
2. Keep Children Away - All visitors should be kept a safe distance from work area.
3. Dress Properly - Do not wear loose clothing or jewelry. They can be caught in moving parts.
4. Wear rubber boots when operating the snow mover.
5. Operation of the snow mover in the hand-held position is unsafe, except in accordance with the special instructions for such use provided in the operator's manual.
6. Avoid Accidental Starting - Don't carry plugged-in snow mover with finger on switch. Be sure switch is off when plugging in.
7. Keep hands away from moving parts.
8. Keep guards in place and in working order.
9. Don't Force Snow Mover - It will perform better and safer at the rate for which it was designed.
10. Don't Overreach - Keep proper footing and balance at all times.
11. If the snow mover strikes a foreign object follow these steps:
  - i. Stop snow mover. Release the switch.
  - ii. Remove the battery pack.
  - iii. Inspect for damage.
  - iv. Repair any damage before restarting and

- operating the snow mover.
12. Disconnect Snow Mover - Remove the battery pack from the snow mover when not in use, before servicing, when changing accessories, and the like.
13. Store Idle Snow Movers Indoors - When not in use, snow movers should be stored indoors in dry, locked-up place - out of reach of children.
14. Maintain Snow Movers With Care - Follow instructions for lubricating and changing accessories.

## SAVE THESE INSTRUCTIONS

### Safe Operation Practices for Walk-Behind Snow Blowers

This snow blower is capable of amputating hands and feet and throwing objects. Failure to observe the following safety instructions could result in serious injury.

### Training

1. Read, understand and follow all instructions on the machine and in the manual(s) before operating this unit. Be thoroughly familiar with the controls and the proper use of the equipment. Know how to stop the unit and disengage the controls quickly.
2. Never allow children to operate the equipment. Never allow adults to operate the equipment without proper instruction.
3. Keep the area of operation clear of all persons, particularly small children.
4. Exercise caution to avoid slipping or falling, especially when operating the snow blower in reverse.

### Preparation

1. Thoroughly inspect the area where the equipment is to be used and remove all doormats, sleds, boards, wires, and other foreign objects.
2. Do not operate the equipment without wearing adequate winter garments. Avoid loose fitting clothing that can get caught in moving parts. Wear footwear that will improve footing on slippery surfaces.
3. Adjust the collector housing height to clear gravel or crushed rock surface.
4. Never attempt to make any adjustments while the motor is running (except when specifically recommended by manufacturer).
5. Always wear safety glasses or eye shields



during operation or while performing an adjustment or repair to protect eyes from foreign objects that may be thrown from the machine.

## Operation

1. Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times.
2. Exercise extreme caution when operating on or crossing gravel drives, walks, or roads. Stay alert for hidden hazards or traffic.
3. After striking a foreign object, stop the motor, remove the battery pack from the machine, thoroughly inspect the snow blower for any damage, and repair the damage before restarting and operating the snow blower.
4. If the unit should start to vibrate abnormally, stop the motor and check immediately for the cause. Vibration is generally a warning of trouble.
5. Stop the motor whenever you leave the operating position, before unclogging the collector/impeller housing or discharge guide, and when making any repairs, adjustments or inspections.
6. When cleaning, repairing or inspecting the snow blower, stop the motor and make certain the collector/impeller and all moving parts have stopped. Remove the battery pack from the machine to prevent accidental starting of the motor.
7. Do not clear snow across the face of slopes, or in an up-and-down fashion. Exercise extreme caution when changing directions on slopes. Do not attempt to clear steep slopes.
8. Never operate the snow blower without proper guards, and other safety protective devices in place.
9. Never direct the discharge toward people or areas where property damage can occur. Keep children and others away.
10. Do not overload the machine capacity by attempting to clear snow at too fast a rate.
11. Never operate the machine at high transport speeds on slippery surfaces. Look behind and use care when operating in reverse.
12. Never direct discharge at bystanders or allow anyone in front of the unit.
13. Disengage power to the collector/impeller when snow blower is transported or not in use.
14. Use only attachments and accessories approved by the manufacturer of the snow blower (such as wheel weights, counterweights, or cabs).
15. Never operate the snow blower without good visibility or light. Always be sure of your footing,

and keep a firm hold on the handles. Walk; never run.

## Clearing a Clogged Discharge Chute

Hand contact with the rotating impeller inside the discharge chute is the most common cause of injury associated with snow blowers. Never use your hand to clean out the discharge chute.

To clear the chute:

1. SHUT THE MOTOR OFF! Remove the battery.
2. Wait 10 seconds to be sure the impeller blades have stopped rotating.
3. Always use a clean-out tool, not your hands.

## Maintenance and Storage

1. Check all the bolts at frequent intervals for proper tightness to be sure the equipment is in safe working condition.
2. Always refer to operator's manual for important details if the snow blower is to be stored for an extended period.
3. Maintain or replace safety and instruction labels, as necessary.
4. Run the machine a few minutes after throwing snow to prevent freeze-up of the collector/impeller.

## ADDITIONAL SAFE OPERATION PRACTICES FOR SNOW THROWER

### A.1 . SAFETY INSTRUCTIONS

#### A.1.1 Training

The following should be carried out for training:

- a. Read the operating and service instruction manual carefully. Be thoroughly familiar with the controls and the proper use of the equipment.
- b. Never allow children to operate a power snow blower.
- c. Keep the area of operation clear of all persons, particularly small children, and pets.
- d. Do not use a snow thrower for any job except that for which it is intended.

#### A.1.2 Preparation

The following preparations should be carried out:

- a. Thoroughly inspect the area where the equipment is to be used and remove all stones,

sticks, wires, bones, and other foreign objects.

- b. Do not operate the equipment when barefoot or wearing open sandals. Always wear substantial footwear.
- c. Work only in daylight or in good artificial light.
- d. Always be sure of your footing; keep a firm hold on the handle and walk, never run.

### A.1.3 Operation

During operation, the following should be observed:

- a. Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times. Stop the auger when crossing gravel drives, walks, or roads.
- b. After striking a foreign object, stop the motor, remove the battery pack, thoroughly inspect the machine for any damage, and repair the damage before restarting and operating.
- c. If the equipment should start to vibrate abnormally, stop the motor and check immediately for the cause. Vibration is generally a warning of trouble.
- d. Stop the motor and remove the battery pack whenever leaving the equipment, before cleaning the rotor housing, and before making any repairs or inspections.
- e. Do not clear snow across the face of slopes, or in an up-and-down fashion. Exercise extreme caution when changing directions on slopes. Do not attempt to clear steep slopes.
- f. Never operate the snow blower without proper guards, plates, or other safety protective devices in place.
- g. Do not wash with a hose; avoid getting water in motor and electrical connections.

### A.1.4 Maintenance

The following maintenance measures should be carried out:

- a. Check the scraper/auger and the mounting bolts at frequent intervals for proper tightness.
- b. Keep all nuts, bolts, and screws tight to be sure the equipment is in safe working condition.
- c. Replace the auger if it is bent or cracked. An unbalanced auger causes vibration that could damage the motor drive unit or cause personal injury.
- d. Clean the auger thoroughly and check its balance by supporting it horizontally on a thin nail through its centre hole. The nail should also be in a horizontal position. If either end of the auger rotates downward, remove some plastic from the heavy or lower end until the auger is balanced. It is

balanced when neither end drops.

## SAFETY WARNINGS FOR BATTERY PACK

1. Do not modify or attempt to repair the battery pack. Do not dismantle, open or shred battery pack.
2. Do not expose a battery pack or appliance to fire or excessive temperature. Exposure to fire or temperature above 265°F (130°C) may cause explosion.
3. Do not short-circuit a battery pack. Do not store battery packs haphazardly in a box or drawer where they may short-circuit each other or be short-circuited by other metal objects. 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 fire.
4. Do not subject battery pack to mechanical shock.
5. Observe the plus (+) and minus (-) marks on the battery back and equipment and ensure correct use.
6. Keep battery pack out of the reach of children.
7. Always purchase the battery pack recommended by the device manufacturer for the equipment.
8. Keep battery pack clean and dry.
9. Wipe the battery pack terminals with a clean dry cloth if they become dirty.
10. Battery pack need to be charged before use. Always use the correct charger and refer to the manufacturer's instructions or equipment manual for proper charging instructions.
11. Do not leave battery pack on prolonged charge when not in use.
12. After extended periods of storage, it may be necessary to charge and discharge the battery pack several times to obtain maximum performance.
13. Battery pack gives its best performance when it is operated at normal room temperature (20°C ± 5°C).
14. Use only the battery pack in the application for which it was intended. Do not use a battery pack or appliance that is damaged or modified. Damaged or modified batteries may exhibit unpredictable behavior resulting in fire, explosion or risk of injury.
15. Remove the battery pack from the equipment when not in use.
16. Dispose of properly.
17. Do not handle the charger, including charger plug, or charger terminals with wet hands.

18. Do not charge the battery pack outdoors, in rain, or in wet locations.
19. 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.
20. Use power tools only with specifically designated battery packs. Use of any other battery packs may create a risk of injury and fire.
21. Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help. Liquid ejected from the battery may cause irritation or burns.

Save these instructions. Refer to them frequently and use them to instruct others who may use this tool. If you lend this tool to someone else, also lend these instructions to them to prevent misuse of the product and possible injury.

## SAFETY WARNINGS FOR BATTERY CHARGER

Information for radiated emission  
This device complies with Canadian ICES-001.  
This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**WARNING:** Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**NOTICE:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

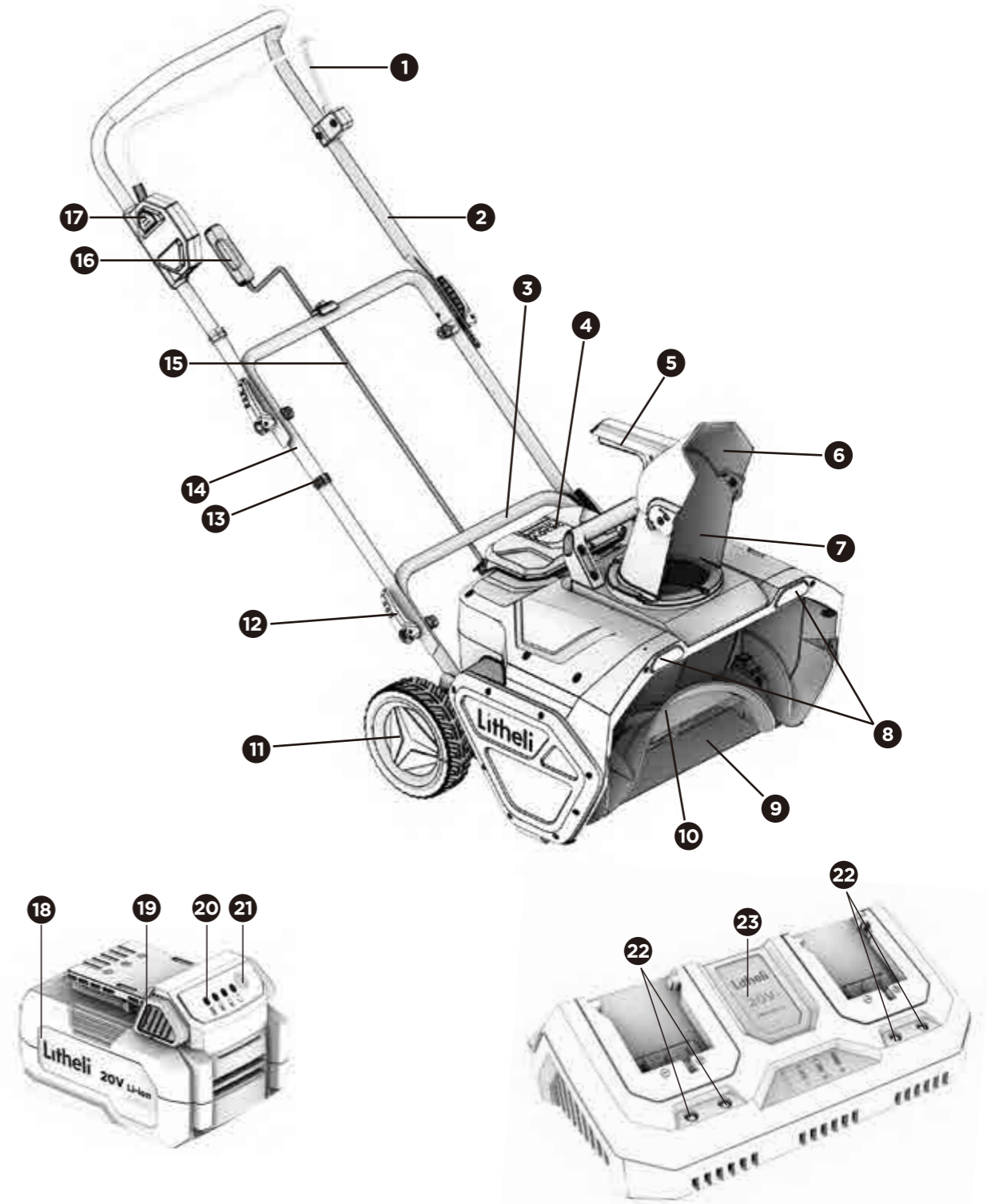
However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful

interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## KNOW YOUR TOOL



1. Operating Bail
2. Upper Handle
3. Lower Handle
4. Battery Pack Cover
5. Discharge Chute Deflector Handle
6. Discharge chute deflector
7. Discharge chute
8. LED lights

9. Scraper Blade
10. Auger
11. Wheel
12. Handle Locking Lever (with Connector And Washer)
13. Cable Clip
14. Middle Handle
15. Chute rotation lever

16. Chute rotation lever handle
17. Lock-off button
18. Battery pack
19. Battery pack release button
20. Battery power indicator light
21. Battery power button
22. Charging indicator light
23. Charger



## TECHNICAL DATA

SKU No.	E1SB47100
Model No.	D10000850
Voltage	2x20V D.C.
No-load speed	2300RPM
Clearing width	20" (51cm)
Snow intake height / depth	12" (30cm)
Operation type	Single-Stage
Throw distance	20' (6m)
Wheel size	7" (18cm)
Machine weight (Without battery)	37 Lbs (17kg)
Battery pack	4.0Ah Li-ion (D01202900)
Charger	2.4A Charger (D02203100)
Charger Rating	Input: 120V-60Hz, 70W Output: Max. 21.2V D.C., 2.4A
Charging Time (Approx.)	120min

## ACCESSORIES

Model No.	D10000850
Battery pack (D01202900)	2pcs
Charger (D02203100)	1pc
Cable clip	2pcs
Hex key	1pc
Handle locking knob (with bolts and washers)	4 sets

## CHARGING YOUR BATTERY

### BATTERY INDICATOR

The battery pack is equipped with a push button for checking the charge level. Simply press the push button to read off the battery charge level from the LEDs of the battery indicator:

LED Indicator	Battery Charge Level/Working Conditions
4 lights on	75% < Charge Level ≤ 100%
3 lights on	50% < Charge Level ≤ 75%
2 lights on	25% < Charge Level ≤ 50%
1 light on	10% < Charge Level ≤ 25%
1 light flashes	Charge Level ≤ 10%

**⚠ WARNING:** Do not use the charger outdoors or expose it to wet or damp conditions. Water entering the charger will increase the risk of electric shock.

**NOTICE:** Lithium-ion battery packs are shipped partially charged. Before using it the first time, fully charge the battery pack.

**NOTICE:** You can charge two batteries at the same time by charger E1-24CR2.

- Connect the charger to the power supply (120V-60Hz). The red LED indicator will shine, indicating that the charger is working correctly.
- Align the raised ribs of the battery pack with the mounting slots in the charger; slide the battery pack onto the charger.
- When the battery is inserted properly, the green LED indicator will slowly flash to indicate that the battery is charging. The red light will turn off.
- When the green light stays on, the battery is fully charged.



### NOTICE:

- The battery pack will fully charge if left on the charger, but it will not overcharge. If the battery pack remains on the charger for one month or more, it will perform self-maintenance and drop to less charge capacity. If this occurs, reinstall the battery pack on the charger to recharge it fully.
- A significantly reduced run time after fully charging the battery pack indicates that the batteries are near the end of their usable life and must be replaced.
- The charger may warm during charging. This is part of the normal operation of the charger. Charge in a well-ventilated area.

### CHARGER LED INDICATOR TABLE

Use the table below to determine charger light patterns and possible causes. For all other issues, contact Litheli Customer Service.

Indication	Possible Reason
Red Light - On Green Light - Off	No load - There's no battery inserted in the charger.
Red Light - Off Green Light - Rapidly flashes	Low voltage charging - The battery is heavily discharged. It may take some time to recover to normal charging.
Red Light - Off Green Light - Slowly flashes	Normal charging - The battery is being charged.
Red Light - Off Green Light - On	Fully charged - The battery is fully charged and the charging process is finished.
Red Light - Slowly flashes Green Light - Off	Temperature abnormal - Charging process stopped and will restart when battery returns to normal temperature.
Red Light - Rapidly flashes Green Light - Off	Over current charging - The current coming through the charger is greater than what the charger can support. Stop charging as soon as possible. Abnormal performance - Something is wrong with the battery or the charger. Contact Litheli Customer Service.

## ASSEMBLY

**⚠WARNING:** To prevent accidental starting that could cause serious personal injury, always remove the battery pack from the tool when assembling parts.

**⚠WARNING:** Do not attempt to modify this tool or create accessories not recommended for use with this tool. Any such alteration or modification is misuse and could result in a hazardous condition leading to serious injury.

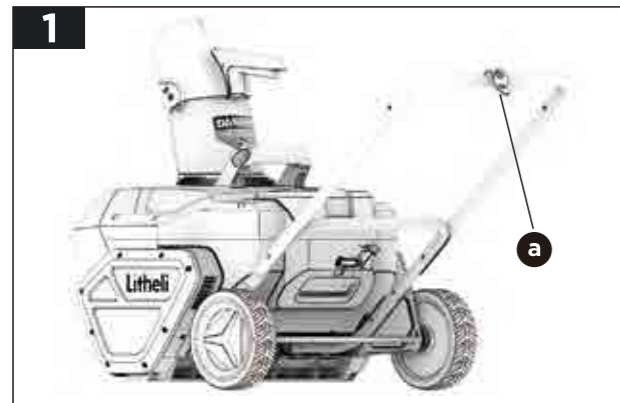
**⚠WARNING:** Do not attempt to start the tool before it has been completely assembled.

### UNPACKING

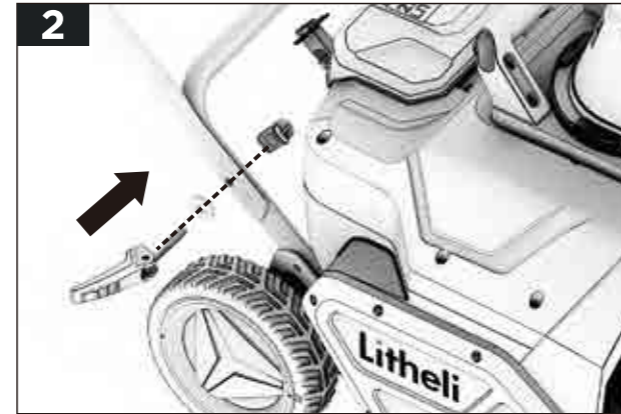
- This product requires assembly.
- Remove all the items from the carton. Make sure that all items listed in the parts list are included.
- Inspect the product carefully to make sure that no breakage or damage occurred during shipping.
- Do not discard the packing material until you have carefully inspected and satisfactorily operated the tool.
- If any parts are damaged or missing, please return the tool to the place of purchase.

### ASSEMBLING THE MIDDLE HANDLE AND THE UPPER HANDLE

- Attach the middle handle onto the lower handle. Align the hole on middle handle with the hole on lower handle at either side. Make sure the bracket (a) on the middle handle is facing downwards as shown in Fig. 1.



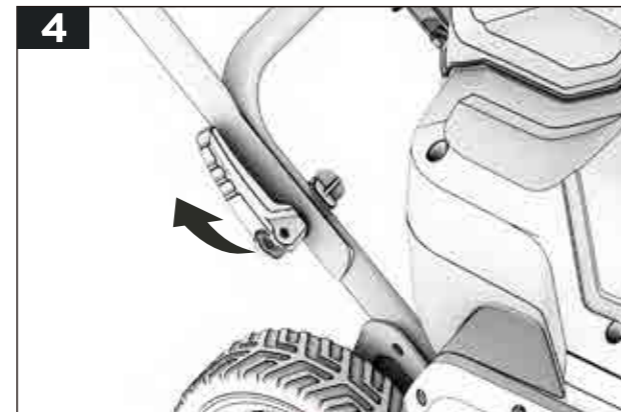
- Insert the handle locking lever with washer through the aligned holes from the outside of the middle handle. Attach the connector to the end of the locking lever from the inner side of the lower handle. (Fig. 2)



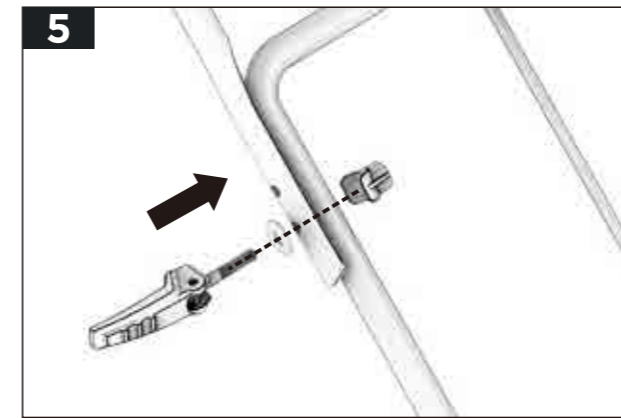
- Rotate the locking lever clockwise. Do not over tighten. (Fig. 3)



- Close the locking lever to the middle handle to lock the middle handle in place. (Fig. 4)



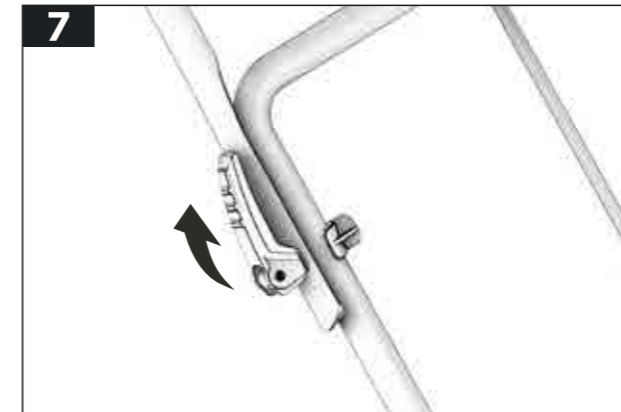
- Attach the upper handle onto the middle handle. Choose an appropriate hole on the upper handle as required. Insert the handle locking lever with washer through the aligned holes from the outside of the upper handle. Attach the connector onto the end of the locking lever from the inner side of the middle handle. (Fig. 5)



- Rotate the locking lever clockwise. Do not over tighten. (Fig. 6)



- Close the locking lever to the upper handle to lock the upper handle in place. (Fig. 7)

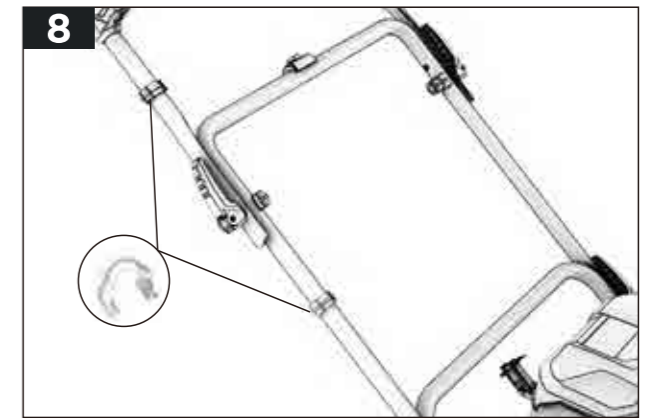


#### NOTICE:

If the locking lever does not fully clamp, open the locking lever and rotate clockwise, tighten it to the limit stop.  
If the locking lever cannot be tightened to the limit stop, open the locking lever and rotate counter-clockwise, and then tighten it to the limit stop.

### USING THE CABLE CLIPS

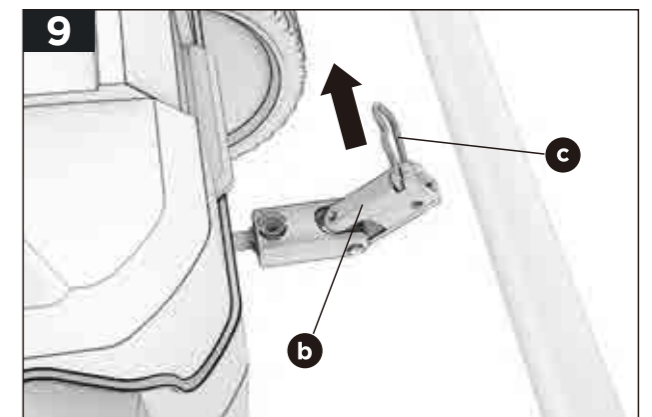
Fix the power cable onto the upper handle and middle handle with the cable clips. (Fig. 8)



### ASSEMBLING THE CHUTE ROTATION LEVER

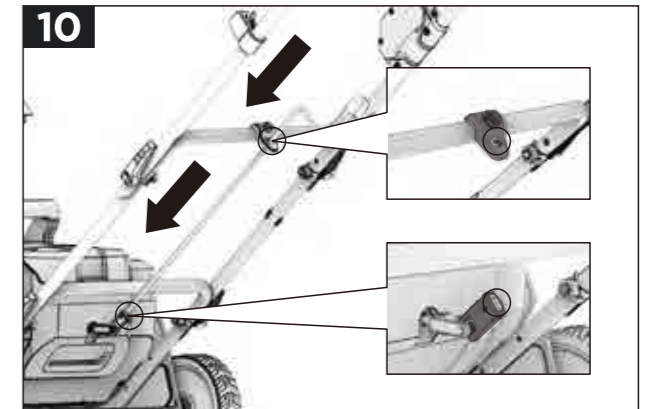
**NOTICE:** Make sure the chute rotation lever rests below the middle handle.

- Remove the cotter pin (c) from the opening (b) at the back of the housing. (Fig. 9)

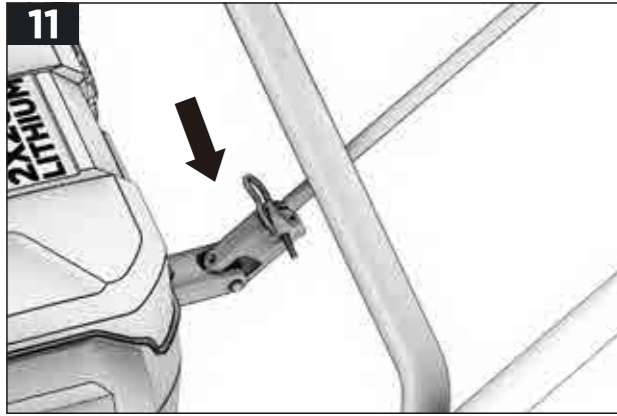


- Slide the chute rotation lever through the bracket on the middle handle. Make sure the crank of the chute rotation lever faces downwards. And then insert the chute rotation lever into the hole of the opening at the back of the housing. (Fig. 10)

- Using the cotter pin to secure the chute rotation lever in place. (Fig. 11)

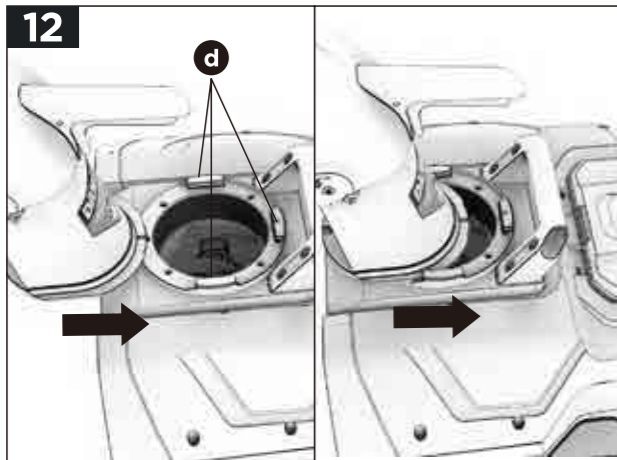




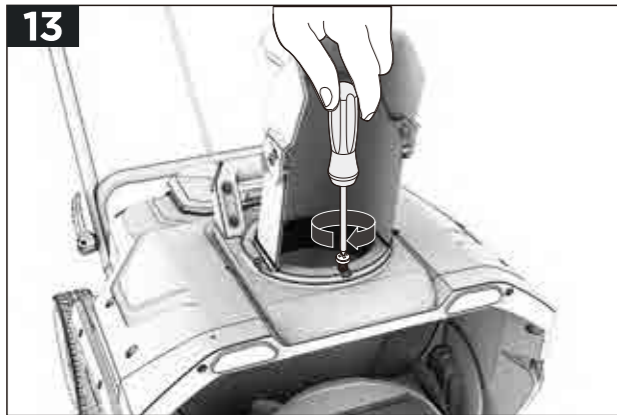


**ASSEMBLING THE DISCHARGE CHUTE**

- a. Align the bottom edge of the discharge chute with the 3 tabs (d) on the upper side of the machine body. Slide the discharge chute into the tabs. (Fig. 12)



- b. Using a screwdriver (not supplied) to fix the discharge chute in place with the screw provided. (Fig. 13)



**NOTICE:** When attaching, make sure the discharge chute fully seated into position. After assembly, gently pull it outwards to make sure it is locked into position securely.

**ADJUSTING THE SNOW DISCHARGE DIRECTION**

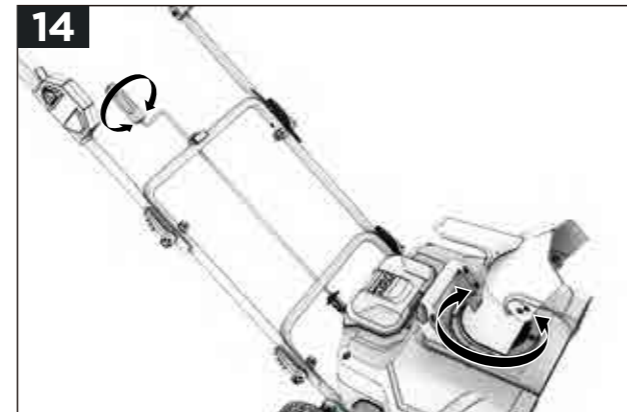
**⚠WARNING:** ALWAYS stop the machine before making any adjustment.  
**⚠WARNING:** Never direct the snow discharge chute at the operator, at bystanders, at vehicles or at nearby windows. The discharged snow and foreign objects accidentally picked up by the snow thrower can cause serious damage and personal injury. Always orient the discharge chute in the opposite direction from where you, bystanders, surrounding vehicles, or windows are located.

**⚠WARNING:** Make sure that the chute deflector snaps and locks completely onto the discharge chute. An opening between the discharge chute and the chute deflector may allow foreign objects to be picked up by the snow blower and thrown in the direction of the operator causing serious bodily injury. Do not advance the chute deflector too far forward causing an opening to appear between the chute deflector and discharge chute.

The discharge chute can be adjusted to change the snow discharge direction. You can either use the chute rotation lever or the discharge chute deflector handle to turn the discharge chute around up to 180°.

**Using the chute rotation lever (Fig. 14)**

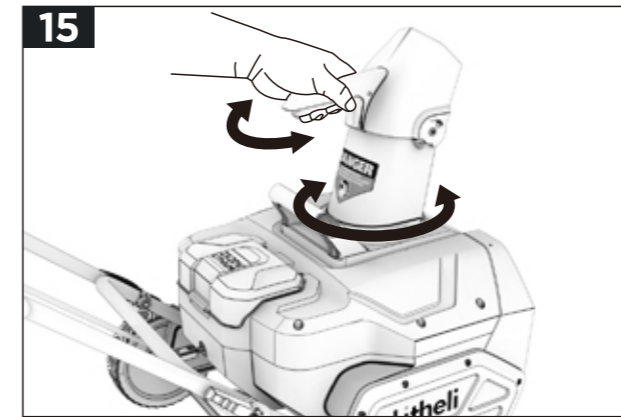
Grip the chute rotation lever handle to turn the chute rotation lever to the left or right.



**Using the chute deflector handle (Fig. 15)**

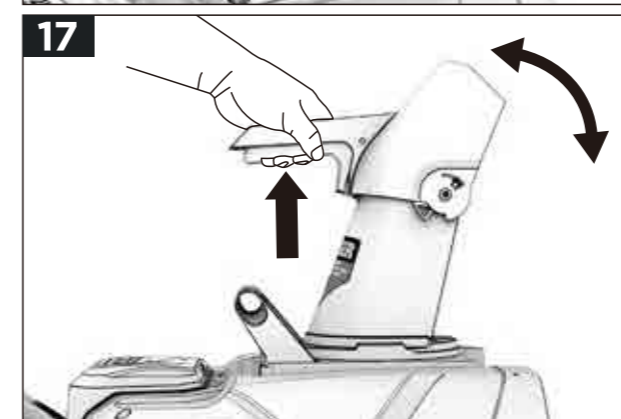
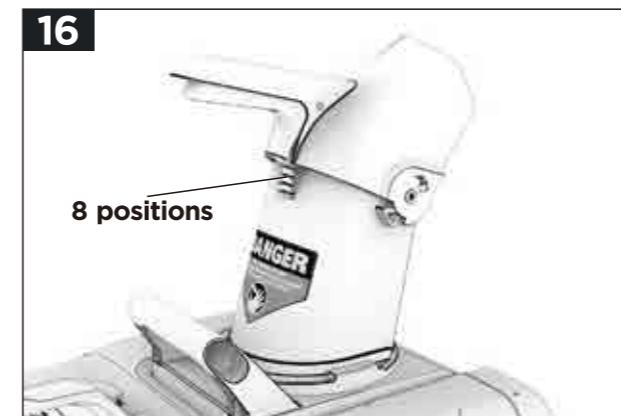
Grip the discharge chute deflector handle and hold it, rotate the discharge chute to the left or

right.



**ADJUSTING THE SNOW DISCHARGE HEIGHT**

You can change the snow discharge height by moving the discharge chute deflector upwards or downwards. The chute deflector can be adjusted in 8 positions. (Fig. 16)  
 To adjust the height of snow discharge, hold and squeeze the discharge chute deflector handle, and then move the handle upwards or downwards. The discharge chute deflector will be raised or lowered afterwards. Choose one from the 8 positions as required, release the chute deflector handle to engage into the required position and lock the chute deflector in place. (Fig. 17)



**INSTALLING OR REMOVING THE BATTERY PACK**

**NOTICE:** This snow blower will only run with 2 batteries installed. It is recommended to use 2 same batteries and charge the 2 batteries at the same time.

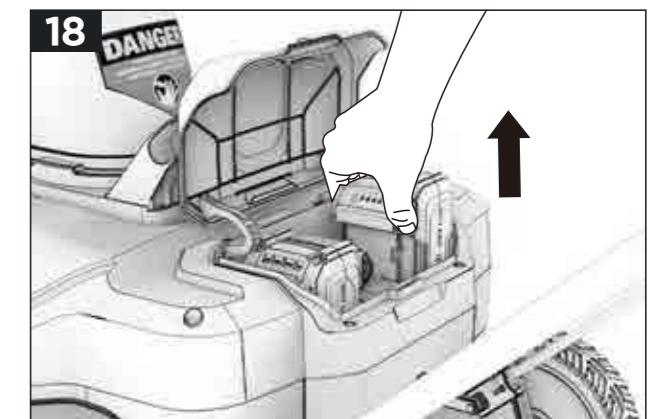
**To install:**

- a. Open the compartment cover, slide the 2 battery packs into the port inside the compartment. Push to the end with a sufficient force until the battery packs click to lock in place. (Fig. 18)
  - b. Close the compartment cover.
- NOTICE:** The battery can only be installed in one way.



**To remove:**

- a. Open the compartment cover.
- b. Depress the battery pack release button at both sides and hold them, then pull the 2 battery packs one by one out from the battery compartment. (Fig. 19)





# OPERATION

## INTENDED USE

This snow blower is intended for snow blowing and is only for outdoor use.

**⚠WARNING:** Do not allow familiarity with this product to make you careless. Remember that a careless fraction of a second is sufficient to inflict serious injury.

**⚠WARNING:** Do not use any attachments or accessories not recommended by the manufacturer of this product. The use of attachments or accessories not recommended can result in serious personal injury.

**⚠WARNING:** Keep the area to be cleared free of stones, toys or other foreign objects that the auger might pick up and throw. Such items could be covered by snow and are easy to overlook, so be sure to conduct a thorough inspection of the area before beginning work.

## STARTING/STOPPING THE SNOW BLOWER

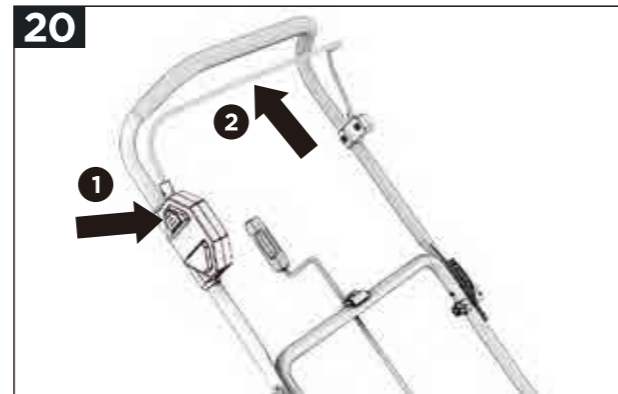
**NOTICE:** Before each use, check and make sure all fasteners on the snow blower (screws, bolts, etc.) are fully tightened. Check the scraper blade and the auger for wear and tear at regular intervals.

### To start the snow blower:

**⚠WARNING:** When starting, make sure the operator and the snow blower must be in a stable position.

Depress and hold the lock-off button with one hand, and then pull the operating bail towards you with another hand. Once the machine is switched on, you can release the lock-off button. **(Fig. 20)**

**NOTICE:** The snow blower can only be started by depressing the lock-off button first, followed by squeezing the operating bail; reverse operation will not start the machine.



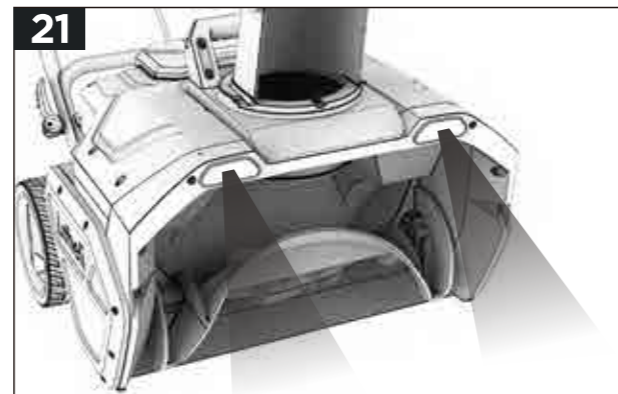
### To stop the snow blower:

Just release your grip on the operating bail to stop the machine.

## LED LIGHTS

The snow blower is equipped with 2 LED lights that is used to illuminate the dark area. The LED lights will automatically turn on when the snow blower is switched on, and will automatically turn off when the snow blower is turned off.

**(Fig. 21)**



## OPERATING TIPS

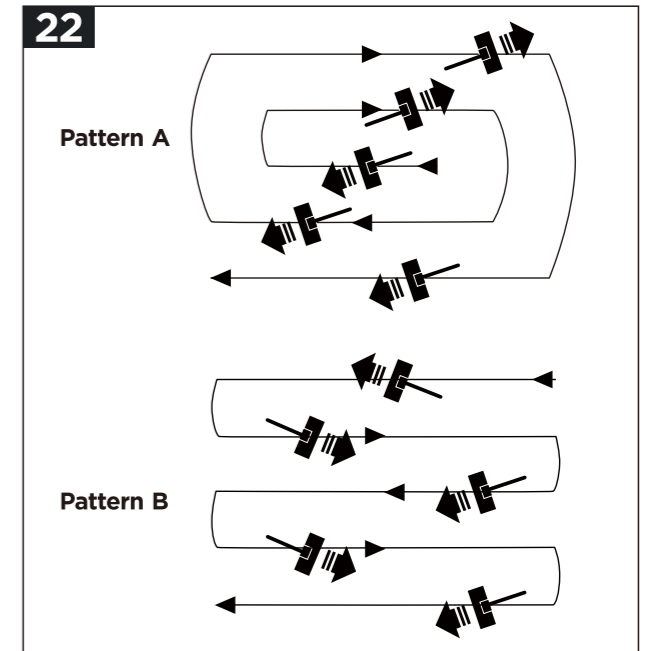
- Keep the area of operation free of foreign objects that can be thrown by the snow thrower. Perform a thorough inspection of the area, as some objects may be hidden from view or buried in the snow.
- Keep children, pets, and bystanders away from the area of operation. Be aware that the normal noise of the unit when turned on may make it difficult for you to hear approaching people.
- When turning the snow blower, use the wheel on one side as the pivot point. Slightly tilt the machine on this pivot point to move it to the left or right.
- Start your clearing path outward, throwing snow in a back and forth motion. To clear in

the opposite direction, pivot the snow blower on its wheel. Make sure to overlap clearing paths.

- Note the direction of the wind before beginning. If possible, move in the same direction as the wind so that the snow is not thrown against the wind (and thus back into your face and on the cleared path).
- Do not push the snow blower with excessive force. You should push the unit gently and evenly in accordance with the unit's throw rate.
- Some parts of the snow blower may freeze under extreme temperature conditions. Do not attempt to operate the snow blower with frozen parts. If the parts freeze while the snow blower is in use, stop the snow blower, remove the battery packs, and inspect for frozen parts. Free all parts before restarting or operating the snow blower. Never force controls that are frozen.
- Operate the snow blower on level surfaces. Stay off slippery surfaces.
- Cold Weather Operation: Lithium-ion batteries can be safely used within temperatures ranging from 1.4°F (-17°C) to 113°F (45°C). Note: Do not store or charge battery pack outside. Battery pack must be charged and stored indoors prior to use of the snow blower.
- If the snow blower does not start, remove the battery packs from snow blower. Place the battery pack on its charger and allow to charge for 10 minutes. Remove from charger and install in snow blower for use. The start-up issue may be caused from the battery packs being too cold. To avoid this issue, ensure that the battery is stored in a dry, cool place for storage and charging and remains indoors until ready to use.
- For larger areas, a definite pattern of operation is required to thoroughly clean an area of snow. These patterns will not only avoid throwing snow in unwanted places but will also eliminate the need for a second removal of snow. **(Fig. 22)**

Pattern A: Throw the snow from right to left where possible. For areas such as a long driveway, it is advantageous to start in the middle. Blow from one end to the other, throwing snow to both sides.

Pattern B: If the snow can only be thrown to one side of the area to be cleared, start on the opposite side.



## FOR BEST PERFORMANCE

- For complete snow removal, walk slowly and slightly overlap each path previously taken.
- Position discharge chute downwind when possible.
- Do not allow unit to ingest gravel and rocks. Push the upper handle down slightly over loose surfaces to avoid ingesting debris.
- Inspect auger before each use and remove any accumulation/debris. DO NOT use hands to clear.
- Clean the unit after each use.

## MAINTENANCE

**⚠WARNING:** When servicing, use only identical replacement parts. Use of any other parts may create a hazard or cause product damage. To ensure safety and reliability, all repairs should be performed by a qualified service technician.

**⚠WARNING:** To prevent serious personal injury, remove the battery pack from the tool before servicing, cleaning, changing add-on attachments or removing material from the unit.

**⚠WARNING:** For the user's safety, worn or damaged parts must be replaced. Replace with original replacement parts only.

### GENERAL MAINTENANCE TIPS

- Do not attempt to repair the machine unless you have the proper tools and instructions for disassembly and repair of the machine.
- Check bolts, screws and fasteners at frequent intervals for proper tightness to ensure that the machine is in safe working condition.
- After each snow removal session, run the snow blower for a few minutes to prevent the auger from freezing. Shut off the motor, wait for all revolving parts to stop completely, and wipe residual ice and snow off of the machine. Rotate the chute rotation lever several times to remove any excess snow.

### CLEANING

Regular cleaning and maintenance of your snow blower will ensure efficiency and prolong the life of the product.

- After each use, use a soft bristled brush to take apart and clean out the ice and debris from the auger, the discharge chute and the scraper blade. DO NOT use your hand to clean.
- Remove deposits on the wheels.
- Wipe clean with a soft cloth soaked with water and a soft brush. Never wet or spray water on the machine.
- Do not use harsh abrasives, detergents or solvents as these could cause irreparable damage to the snow blower. Chemicals can destroy the plastic parts.

### REPLACING THE AUGER

It is recommended to contact Litheli Customer Service or an authorized agency approved by Litheli for replacing the auger.

### REPLACING THE DRIVE BELT

It is recommended to contact Litheli Customer Service or an authorized agency approved by Litheli for replacing the belt.

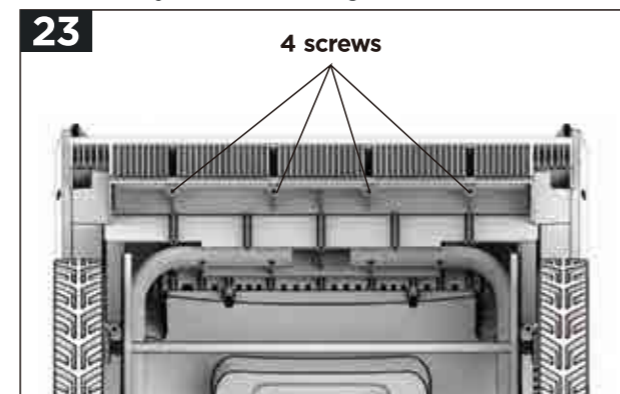
### REPLACING THE SCRAPER BLADE

**⚠WARNING:** Make sure to turn off the machine and remove the battery before performing any maintenance task on your cordless snow thrower.

The scraper blade is a wear item and should be replaced when necessary. A worn scraper blade can cause extreme vibration and damage the auger.

**NOTICE:** To replace the scraper blade, you need to prepare a Torx key set.

- Place the snow blower on the ground or on a work bench. Turn the snow blower over.
- Using a suitable torx key (not supplied) to remove the 4 screws that secure the scraper blade to the base of the unit. (Fig. 23)
- Remove the old scraper blade. Install the new scraper blade and fasten it securely to the housing with the 4 screws.



## STORAGE

- Examine the cordless snow blower thoroughly for worn, loose or damaged parts. Should you need to repair or replace a part, contact Litheli Customer Service for assistance.
- Remove the battery. Allow the motor to cool and clean the snow blower before storing.
- Allow to dry thoroughly.
- To protect the snow blower from corrosion when storing for long periods, lightly oil the metal parts.
- Store the cordless snow blower indoors in a locked, dry, well-ventilated place out of the reach of children to prevent unauthorized use or damage.
- To aid storage, fold the upper handle following the steps below.

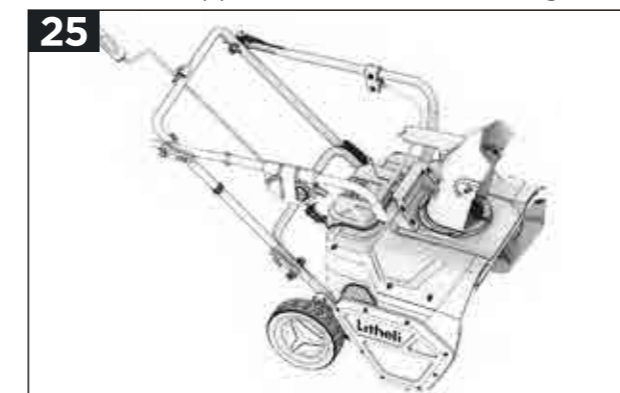
### FOLDING THE UPPER HANDLE

- Hold the upper handle with one hand. Open the handle locking lever and rotate it counter-clockwise to loosen the upper handle. Loosen the other side until the upper handle can be folded. (Fig. 24)



**⚠WARNING:** Hold the upper handle when releasing the handle locking lever to avoid finger injury.

- Fold the upper handle as shown in Fig. 25.



### BATTERY AND CHARGER:

- Do not expose your battery pack or charger to water, rain or allow them to get wet. This could permanently damage the charger and the battery pack. Do not use oil or solvents to clean or lubricate your battery pack as the plastic casing can become brittle and crack, causing a serious risk of injury.
- Store the battery pack and charger at room temperature away from moisture. Do not store in damp locations where corrosion of terminals may occur. As with other battery pack types, permanent capacity loss can result if the pack is stored for long periods of time at high temperatures (over 120°F/49°C).



# TROUBLESHOOTING

**⚠WARNING:** Switch off the machine and remove the battery packs prior to any troubleshooting.

Problem	Possible Cause	Solution
The handle is not in position.	Handle locking knobs not secured.	Make sure that the knobs are fully tightened and closed.
Motor does not start	Battery not installed well.	Make sure the battery is fully inserted.
	Battery depleted.	Charge the battery.
	Lock-off button not depressed.	Depress the lock-off button fully and then squeeze the operating bail.
	Battery too cold.	Remove battery from snow blower. Place battery on charger and allow to charge for 10 minutes. Remove from charger and install in snow blower for use.
	Operating bail defective.	Contact the service center for replacing.
Poor performance	Drive belt worn or damaged.	Contact the service center for replacing.
	Auger worn or damaged.	Contact the service center for replacing.
	Discharge chute blocked.	Switch off the snow blower, remove the battery pack, and clean the discharge chute and the auger housing. DO NOT use hand to clean.
Abnormal vibrations	Drive belt worn or damaged.	Contact the service center for replacing.
	Auger worn or damaged.	Contact the service center for replacing.
	Scraper blade worn.	Replace the scraper blade.
The motor is on but the auger does not turn.	Driver belt damaged.	Contact the service center for replacing.
The snow blower leaves a thin layer.	Scraper blade worn.	Replace the scraper blade.

# WARRANTY

## Litheli WARRANTY POLICY FOR 20V SERIES PRODUCT

- For Litheli 20V SERIES products (bare tool only) used for personal and household purposes, 3-year limited standard warranty + 2-year limited extended warranty available upon product registration;
- For Litheli 20V SERIES battery packs and chargers used for personal and household purposes, 1-year limited standard warranty + 2-year limited extended warranty available upon product registration;

**NOTICE:** Litheli offers a Warranty Extension Service for 20V SERIES products. Litheli 20V SERIES product Warranty Extension is available only upon product registration. Register your 20V SERIES product on Litheli OFFICIAL website to activate a 2-year limited extended warranty.

Please contact Litheli customer service at [service@litheli.com](mailto:service@litheli.com) any time you have questions or warranty claims.

## LIMITED WARRANTY SERVICE

FOR FIVE (2-year extended warranty included) YEARS from the date of original retail purchase, this Litheli product (battery not included) is warranted against defects in material or workmanship. FOR THREE (2-year extended warranty included) YEARS from the date of original retail purchase, the Litheli battery pack and charger are warranted against defects in material or workmanship. Defective product will receive free repair or be exchanged.

- This warranty applies only to the original purchaser from an authorized Litheli shop and may not be transferred.
- This warranty only covers Litheli products, battery packs and chargers used for residential purposes.
- This warranty does not cover the consumables, such as, but not limited to, wheels, blades, trimmer heads, spools, guide bars, saw chains, nozzles, filters, mop pads, augers and straps.
- This warranty does not cover the damage resulting from modification, alteration or unauthorized repair.
- This warranty only covers defects arising under normal usage and does not cover any malfunction, failure or defect resulting from misuse, abuse (including overloading of the product beyond capacity, and immersion in water or other liquid), accidents, neglect, lack of proper installation, improper maintenance or storage.
- This warranty does not cover normal deterioration of the exterior finish, including but not limited to scratches, dents, paint chips, and any corrosion or discoloring by heat, abrasive and chemical cleaners.
- This warranty does not require Litheli to repair or replace a Litheli lithium-ion battery/ies if the battery/ies present/s shortened runtime/working hour, reduced capacity, and/or weakened performance due to normal chemical age.

## PRODUCT REGISTRATION

Please register your Litheli product at [Litheli OFFICIAL website](https://www.litheli.com).

For better warranty services, we recommend that you register the product within 30 days from the date of the original retail purchase.

## WARRANTY CLAIM

For warranty claims, please contact Litheli customer service. You will need to submit a registration document or proof of purchase in the form of a valid receipt that displays date and place of purchase. Replacement tools do not come with a new warranty. The warranty of the products will continue from the date of the original purchase.