

## LITHELi U20SS00-1A220-QL-01

# Litheli U20 40V Brushless Cordless Snow Shovel 14-Inch Instruction Manual

Model: U20SS00-1A220-QL-01

## 1. INTRODUCTION

---

Thank you for choosing the Litheli U20 40V Brushless Cordless Snow Shovel. This manual provides essential information for the safe assembly, operation, and maintenance of your snow shovel. Please read this manual thoroughly before first use and retain it for future reference.

This cordless snow shovel is designed for clearing snow from driveways, sidewalks, decks, and patios. It is powered by two 20V lithium-ion batteries, providing 40V of power for efficient snow removal.

## 2. IMPORTANT SAFETY INFORMATION

---

**WARNING: Read all safety warnings and instructions. Failure to follow the warnings and instructions may result in electric shock, fire, and/or serious injury.**

### General Safety Rules

- **Personal Protective Equipment:** Always wear appropriate eye protection (safety glasses), hearing protection, and sturdy, non-slip footwear. Avoid loose clothing that could get caught in moving parts.
- **Work Area:** Keep the work area clear of debris, rocks, and other objects that could be thrown by the snow shovel. Ensure adequate lighting.
- **Bystanders:** Keep children, pets, and bystanders at a safe distance (at least 50 feet/15 meters) from the operating area.
- **Inspect Before Use:** Before each use, inspect the snow shovel for any damaged parts, loose fasteners, or worn components. Do not operate if damaged.
- **Battery Safety:** Use only Litheli 20V batteries and chargers. Do not charge batteries in damp or wet conditions. Do not expose batteries to fire or extreme temperatures.
- **Proper Footing:** Maintain firm footing and balance at all times. Do not overreach.

- **Avoid Overloading:** Do not attempt to clear snow beyond the machine's capacity. If the unit bogs down, reduce the pace.
- **Clear Obstructions:** If the discharge chute becomes clogged, turn off the snow shovel, remove the batteries, and use a clearing tool (not hands) to remove the obstruction.
- **Storage:** Store the snow shovel indoors in a dry, secure location, out of reach of children. Remove batteries before storage.

### 3. PRODUCT COMPONENTS

Familiarize yourself with the parts of your Litheli Cordless Snow Shovel:



**Image Description:** A detailed diagram of the Litheli 14-inch snow shovel, highlighting its key components. Labels include: Battery Release Button, Battery Compartment, Lock-off Button, On/Off Switch, Auxiliary Handle, Adjustable Chute, Auger, and Scraper Blade. The image also indicates a 3-year warranty for the tool and a 1-year warranty for the battery.

- **Battery Compartment:** Holds the two 20V batteries.
- **Battery Release Button:** Used to remove batteries.
- **On/Off Switch:** Activates the snow shovel.

- **Lock-off Button:** Safety feature to prevent accidental starting.
- **Auxiliary Handle:** Provides additional grip and control.
- **Adjustable Chute:** Directs the snow discharge.
- **Auger:** The rotating component that collects and throws snow.
- **Scraper Blade:** Located at the bottom front, helps clear snow down to the surface.

## 4. ASSEMBLY AND SETUP

---

Your Litheli snow shovel requires minimal assembly. Follow these steps:

1. **Attach Auxiliary Handle:** Slide the auxiliary handle onto the main shaft. Adjust its position for comfortable operation and secure it using the provided fasteners.
2. **Adjust Main Handle Length:** Loosen the quick-release clamp on the main handle. Extend or retract the handle to your preferred operating height, then securely tighten the clamp.
3. **Install Batteries:** Ensure the snow shovel is turned off. Open the battery compartment cover. Insert two fully charged Litheli 20V batteries into their respective slots until they click into place. Close the battery compartment cover.
4. **Chute Adjustment:** The snow shovel features an adjustable chute. Locate the quick-turn mechanism for the chute. Rotate it to direct snow left or right as needed.



## ADJUSTABLE CHUTE WITH A QUICK-TURN

**Image Description:** A close-up view of the snow shovel's front, demonstrating the adjustable chute mechanism. An inset image shows an arrow indicating the rotation of the chute for directional snow discharge.

### 5. OPERATING INSTRUCTIONS

---

#### Before Starting

- Ensure batteries are fully charged.
- Clear the area of any objects that could be thrown by the shovel.
- Dress appropriately for cold weather, including eye and hearing protection.

#### Starting the Snow Shovel

1. Press and hold the Lock-off Button.
2. While holding the Lock-off Button, squeeze the On/Off Switch. The auger will begin to rotate.
3. Release the Lock-off Button once the motor starts.

## Clearing Snow

- Push the snow shovel forward at a steady pace. Do not force the unit.
- For optimal performance, clear snow in overlapping passes.
- Adjust the chute direction as needed to throw snow away from cleared areas and bystanders.
- The shovel can clear snow up to 14 inches wide and 7 inches deep. For deeper snow, clear in layers.
- While the shovel can handle wet snow, extremely heavy or deep wet snow may require slower passes or multiple passes. For very heavy snow conditions, a dedicated snow blower is generally more suitable.



**Image Description:** A visual representation of the snow shovel clearing snow, with dashed lines and text indicating a 7-inch clearing depth and a 14-inch clearing width.



**Image Description:** A person operating the snow shovel, with a visual arc illustrating snow being thrown a maximum distance of 20 feet.



**Image Description:** A person using the Litheli snow shovel to clear a residential driveway. An overlay indicates the shovel can clear up to a 6-car driveway on a single charge.

## Stopping the Snow Shovel

Release the On/Off Switch to stop the auger. The auger will coast to a stop.

## 6. MAINTENANCE AND STORAGE

---

### Cleaning

- After each use, remove the batteries.
- Use a dry cloth to wipe down the exterior of the snow shovel.
- Remove any snow or ice buildup from the auger and chute area. Do not use water to clean the motor housing.

### Storage

- Remove batteries from the snow shovel before storing.
- Store the snow shovel in a dry, well-ventilated area, away from direct sunlight and extreme temperatures.
- The shovel features a foldable design for compact storage. Loosen the main handle adjustment clamp and fold the handle down.



**Image Description:** The Litheli snow shovel is shown in a garage setting, folded down for compact storage next to a car, demonstrating its space-saving design.

## Battery Care

- Store batteries in a cool, dry place, away from direct sunlight.
- Do not store batteries in a discharged state for extended periods. Charge them periodically if not in use.
- The 40V (2x20V) lithium-ion battery also functions as a 20000 mAh portable power bank and is compatible with all Litheli U20 series products.

## 7. TROUBLESHOOTING

---

Problem	Possible Cause	Solution
Snow shovel does not start.	<ol style="list-style-type: none"> <li>1. Batteries not inserted correctly.</li> <li>2. Batteries are discharged.</li> <li>3. Lock-off button not pressed before switch.</li> </ol>	<ol style="list-style-type: none"> <li>1. Ensure batteries are fully seated and click into place.</li> <li>2. Charge batteries fully.</li> <li>3. Press and hold the lock-off button, then squeeze the On/Off switch.</li> </ol>
Snow shovel stops during operation.	<ol style="list-style-type: none"> <li>1. Overload protection activated.</li> <li>2. Batteries are discharged.</li> </ol>	<ol style="list-style-type: none"> <li>1. Reduce the load by clearing less snow per pass. Allow motor to cool.</li> <li>2. Replace with fully charged batteries.</li> </ol>
Snow not clearing effectively.	<ol style="list-style-type: none"> <li>1. Auger clogged.</li> <li>2. Clearing too much snow at once.</li> <li>3. Worn auger or scraper blade.</li> </ol>	<ol style="list-style-type: none"> <li>1. Turn off, remove batteries, clear obstruction with a tool.</li> <li>2. Reduce forward speed and clear in thinner layers.</li> <li>3. Inspect and replace worn parts if necessary.</li> </ol>
Short operating time.	<ol style="list-style-type: none"> <li>1. Batteries not fully charged.</li> <li>2. Batteries are old or damaged.</li> <li>3. Operating in very heavy/wet snow.</li> </ol>	<ol style="list-style-type: none"> <li>1. Ensure batteries are fully charged before use.</li> <li>2. Consider replacing batteries.</li> <li>3. This is normal for demanding conditions; clear in shorter bursts.</li> </ol>

## 8. SPECIFICATIONS

---

- **Brand:** LiTHELi
- **Model Number:** U20SS00-1A220-QL-01
- **Power Source:** Battery Powered (2x20V Lithium-Ion)
- **Voltage:** 40 Volts
- **Clearing Width:** 14 Inches
- **Ideal Snow Depth:** 7 Inches
- **Max Snow Throwing Distance:** Up to 20 feet
- **Item Weight:** 16.1 Pounds
- **Product Dimensions:** 11.4"D x 14.7"W x 64.2"H
- **Battery Runtime:** Up to 30 minutes (depending on snow conditions)
- **UPC:** 810200212376

## 9. WARRANTY AND SUPPORT

---

The Litheli U20 40V Brushless Cordless Snow Shovel is backed by a **3-year warranty** on the tool and a **1-year warranty** on the battery packs. This warranty covers defects in materials and workmanship under normal use. For warranty claims, technical support, or replacement parts, please contact Litheli customer service. Refer to your purchase documentation for specific contact details or visit the official Litheli website.