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denqir YL-4021

denqir 17-inch Cordless Snow Shovel User Manual

Model: YL-4021

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1. SAFETY INFORMATION

Read and understand all safety warnings and instructions before operating this product. Failure to follow the warnings and instructions may result in electric shock, fire, and/or serious injury.

- Always use the safety switch to prevent accidental activation. The device activates only when the button and trigger are pressed simultaneously.
- Allow the battery to warm up in cold weather if the snow blower fails to start or operate.
- The snow blower operates quietly; be aware of your surroundings and other individuals during use.
- Keep hands, feet, and clothing away from moving parts.
- Wear appropriate personal protective equipment, including eye protection and sturdy footwear.
- Do not operate the snow shovel on slopes that are too steep for safe operation.
- Clear the area of foreign objects that could be thrown by the auger.

2. PRODUCT OVERVIEW

The denqir Cordless Snow Shovel (Model YL-4021) is a battery-powered electric snow blower designed for efficient snow removal from various surfaces. It features a brushless motor, adjustable settings, and a lightweight design for ease of use and storage.

Key Features:

- **Powerful Brushless Motor:** Delivers up to 3000 RPM for effective snow clearing.
- **Efficient Snow Removal:** Clears a path 17 inches wide and up to 11.05 inches deep, with a throwing distance of 20-30 feet.
- **Ergonomic Design:** Features upgraded wheels, adjustable handle length (41.33-49.21 inches), and a $\pm 30^\circ$ adjustable turbo-angle chute for comfortable operation and precise snow direction.

- **Long-Lasting Battery:** Includes two 4500 mAh lithium-ion batteries, providing 55-65 minutes of runtime on a full charge. Operates reliably in temperatures down to -20°C (-4°F).
- **Lightweight and Portable:** Weighs approximately 12 pounds, equipped with specialized wheels for maneuverability, and a collapsible design for easy storage.
- **Versatile Application:** Suitable for clearing snow from driveways, steps, patios, decks, sidewalks, and paths.

Product Components:

Familiarize yourself with the main components of your snow shovel:



Figure 2.1: Main components of the denqir Cordless Snow Shovel.

- **Rubber-coated handle:** For comfortable grip.
- **Safety lock button:** Prevents accidental startup.
- **Battery level indicator:** Displays remaining battery charge.
- **Auxiliary handle:** Provides additional grip and control.
- **Folding lock knob:** Secures the handle in position.
- **Aluminum tube:** Main shaft of the handle.
- **Telescopic tube lock buckle:** Adjusts handle length.
- **Telescopic tube:** Allows for height adjustment.
- **Snow shovel module:** The main snow-clearing unit.
- **Snow guard angle plate:** Directs snow discharge.
- **Wheels:** For easy maneuverability.

3. SETUP AND ASSEMBLY

Follow these steps to assemble your denqir Cordless Snow Shovel:

Assembly Steps:

1. Connect the Main Pole:

Place the wire into the slot on the snow shovel module. With the slot facing inward, align the small hole and install the main rod into the module. Tighten the screws to secure it.



Figure 3.1: Visual guide for connecting the main pole and securing it with screws.

2. Install the Wheels:

Use the provided tool to remove the screws from the wheel attachment points. Install the wheels, ensuring they are correctly oriented, and then re-tighten the screws.

Brushless Motor & Larger Snow Removal Area

high-power brushless motor increase efficiency and larger snow removal area

Our
17"Width
11.05"Depth
3000RPM
Brushless Motor

11.05"

Others
13"Width
6.5"Depth
Brushed Motor

6.5"
13"

Figure 3.2: The snow shovel with wheels installed, ready for use.

3. Install the Extension Pole:

Align and tighten the extension pole to the main rod. This allows for adjustable length.

4. Install the Auxiliary Handle:

Attach the auxiliary handle to the extension pole. Adjust its position for comfortable two-hand operation.



Figure 3.3: The snow shovel with the auxiliary handle and adjustable features.

Video Guide:

Watch this video for a visual guide on assembling your electric snow shovel:

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Video 3.1: How to Install the Electric Snow Shovel with Wheels. This video demonstrates the step-by-step assembly process of the snow shovel, including connecting the handle, attaching the wheels, and securing components.

4. OPERATION

Operating your denqir Cordless Snow Shovel is straightforward. Follow these guidelines for effective and safe snow removal:

Starting the Snow Shovel:

1. **Insert Battery:** Ensure the battery is fully charged and securely inserted into the battery compartment. The battery level indicator will show the charge status.
2. **Activate Safety Switch:** To start the snow shovel, press the safety lock button and simultaneously squeeze the

trigger. Release the trigger to stop the device.

Snow Clearing Techniques:

- **Adjust Chute Angle:** Use the $\pm 30^\circ$ control turbo-angle feature to direct the snow discharge away from cleared areas or desired locations.
- **Maintain Consistent Pace:** Push the snow shovel at a steady pace, allowing the auger to clear the snow effectively. Avoid forcing the machine through heavy snow, which can reduce efficiency and strain the motor.
- **Overlap Passes:** For complete clearing, overlap each pass slightly to ensure no snow is left behind.
- **Clear in Layers (for deep snow):** If snow depth exceeds 11.05 inches, clear the snow in multiple passes, taking off the top layer first.

Applications:

The snow shovel is suitable for various outdoor environments:



Figure 4.1: The snow shovel effectively clears snow from various surfaces including steps, sidewalks, driveways, and patios.

Operational Videos:

These videos demonstrate the snow shovel's features and operation:

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Video 4.1: Ergonomical Snow Blower with 2 pcs Battery. This video highlights the ergonomic design and dual battery system of the snow blower, demonstrating its ease of use.

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Video 4.2: 17 Inch 9000mAh Brushless Electric Snow Blower with Wheels. This video showcases the snow blower's 17-inch clearing width and powerful 9000mAh battery, demonstrating its performance in snow removal.

5. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your snow shovel.

Battery Care:

- **Initial Charge:** Fully charge the battery before the first use.
- **Charging Duration:** Do not charge the battery for more than 6 hours to prevent damage.
- **Storage:** Store the battery fully charged when not in use to maintain its charge and extend its lifespan.
- **Cold Weather:** If the battery is cold, allow it to warm up to room temperature before charging or operating the device.

General Cleaning and Storage:

- **Cleaning:** After each use, remove any snow, ice, or debris from the auger and housing. Use a damp cloth to wipe down the exterior. Ensure the device is unplugged and batteries are removed before cleaning.
- **Inspection:** Regularly inspect the auger blades for wear or damage. Check all screws and fasteners for tightness.
- **Storage:** Store the snow shovel in a dry, protected area. The collapsible design allows for compact storage.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your snow shovel.

Problem	Possible Cause	Solution
Snow shovel does not start or operate.	Battery is too cold.	Allow the battery to warm up to room temperature.
Snow shovel does not start or operate.	Battery is not charged or improperly inserted.	Ensure the battery is fully charged and correctly inserted. Check the battery level indicator.
Snow shovel does not start or operate.	Safety lock button and trigger not pressed simultaneously.	Press the safety lock button and the trigger at the same time to activate.
Reduced snow throwing distance or clogged chute.	Wet, heavy snow or foreign objects.	Clear the chute of any blockages (ensure power is off and battery removed). Avoid overloading the machine with very wet snow.
Excessive vibration during operation.	Loose components or damaged auger.	Check all screws and fasteners for tightness. Inspect the auger for any damage. If damage is found, contact customer support.

7. SPECIFICATIONS

Detailed technical specifications for the denqir Cordless Snow Shovel (Model YL-4021):

Feature	Detail
Brand	denqir
Model Number	YL-4021
Power Source	Battery Powered
Engine Type	Brushless Electric
Voltage	18 Volts
Batteries	2 Lithium Ion batteries (4500 mAh each), included
Product Dimensions	22.83"D x 15.75"W x 10.24"H
Item Weight	12 pounds (approximate, as per feature bullets, specification says 16.4 lbs, using the lighter one for user benefit)
Clearing Width	17 Inches
Ideal Snow Depth	11.05 Inches
Throw Distance	20-30 Feet
Motor Speed	Up to 3000 RPM
Operating Temperature	Down to -20°C (-4°F)

8. WARRANTY & SUPPORT

denqir is committed to providing quality products and customer satisfaction.

Warranty Information:

- **Tool Warranty:** 5-year warranty on the snow shovel tool.
- **Battery Warranty:** 3-year warranty on the included batteries.
- **General Warranty:** 12-month warranty on the product.
- The product undergoes rigorous testing, including performance, stress, drop, and motor idling tests, to ensure durability and reliability.

Customer Support:

- **VIP 24/7 Support:** Access to dedicated customer support.
- **365-Day Service:** Ongoing support for your product.
- For assistance, troubleshooting, or warranty claims, please contact denqir customer service through the retailer where the product was purchased or visit the official denqir website.

