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## VERPAL 16.1 inches-Black

# VERPAL Electric Wheelchair User Manual

Model: 16.1 inches-Black

## 1. INTRODUCTION AND OVERVIEW

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Welcome to the user manual for your VERPAL Electric Wheelchair. This document provides essential information for the safe and effective operation, maintenance, and troubleshooting of your new mobility device. Please read this manual thoroughly before first use to ensure proper handling and to maximize the lifespan of your wheelchair.

The VERPAL Electric Wheelchair is designed for adults seeking a lightweight, foldable, and versatile mobility solution. Weighing just 33 lbs, it offers exceptional portability, making it suitable for both indoor and outdoor use, as well as travel. Its robust design and powerful motors ensure smooth navigation across various terrains.



Figure 1.1: The VERPAL Electric Wheelchair in its unfolded state, highlighting its lightweight and foldable nature.

## 2. SAFETY INFORMATION

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Your safety is paramount. Adhere to all safety guidelines to prevent injury or damage to the wheelchair.

- Always read and understand this manual before operating the wheelchair.
- Ensure the wheelchair is fully unfolded and locked into position before use.
- Always wear the seatbelt provided for your safety.
- Do not exceed the maximum weight capacity of the wheelchair.
- Avoid operating the wheelchair on excessively steep inclines or declines beyond the specified 12-degree climbing angle.
- Exercise caution on uneven surfaces, gravel, or wet conditions. While designed for all-terrain, extreme conditions may affect stability.
- Keep hands and clothing clear of moving parts, especially wheels and folding mechanisms.
- Do not expose the wheelchair to extreme temperatures or direct water spray.

- Always turn off the power and engage the electromagnetic brakes when getting in or out of the wheelchair, or when it is stationary.
- Regularly inspect the tires, brakes, and battery for any signs of wear or damage.

### 3. COMPONENTS AND FEATURES

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Familiarize yourself with the main components of your VERPAL Electric Wheelchair:

- **360° Joystick Controller:** Provides intuitive control for movement and speed.
- **Dual 180W Brushless Motors:** Deliver quiet and powerful propulsion.
- **High-Capacity Lithium Battery:** Powers the wheelchair for extended travel.
- **Shock-Absorbing Honeycomb Wheels:** Designed for smooth navigation over various surfaces.
- **Puncture-Resistant Rubber Tires:** Enhance durability and reduce maintenance.
- **Electromagnetic Brakes:** Provide precise control and instant stopping power.
- **Breathable Mesh Seating:** Ensures comfort during prolonged use.
- **Aircraft-Grade Aluminum Frame:** Guarantees stability and durability while maintaining a lightweight profile.



Figure 3.1: The 360° Control Joystick, showing its various functions for intuitive operation.



Figure 3.2: The wheelchair demonstrating its climbing capability on a 12-degree incline.

## 4. SETUP

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Follow these steps to set up your VERPAL Electric Wheelchair for first use:

### 1. **Unfolding the Wheelchair:**

Carefully remove the wheelchair from its packaging. Grasp the frame and gently pull outwards until the wheelchair fully unfolds and locks into place. Ensure all locking mechanisms are securely engaged.

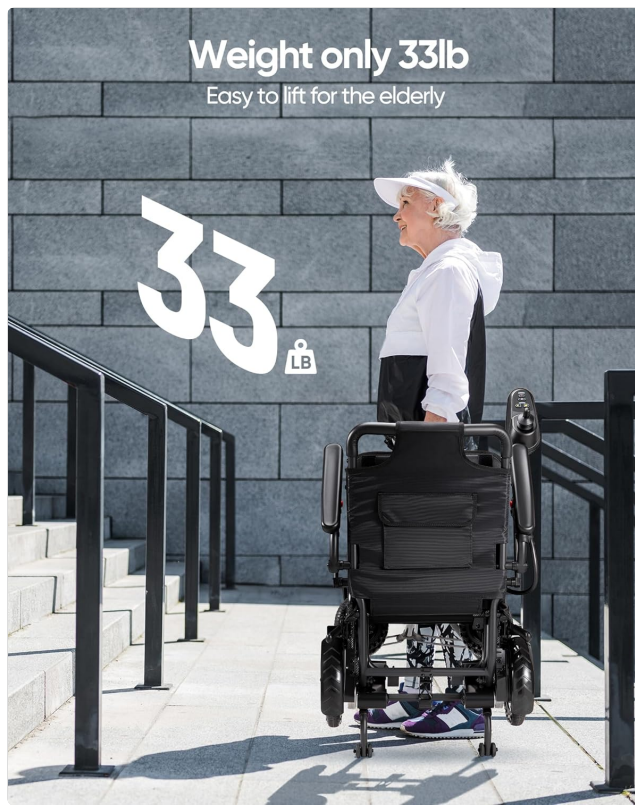


Figure 4.1: The wheelchair in its compact, folded state, ready for transport or storage.

## 2. Attaching the Joystick Controller:

Locate the joystick controller and its mounting bracket. Attach the controller to the desired armrest (typically the right side for most users) and secure it firmly. Connect the controller cable to the corresponding port on the wheelchair, ensuring a snug fit. You may need to connect red plugs together under the seat for power wires to the battery.

## 3. Initial Battery Charging:

Before first use, fully charge the lithium battery. Connect the charger cable to the charging port on the joystick controller or directly to the battery. Plug the charger into a standard electrical outlet. The indicator light on the charger will typically change from red to green when charging is complete. This initial charge may take several hours.

## 4. Seat Adjustment:

Ensure the seat cushion is properly positioned and secured. Lock the seat so the chair will not fold up on you while sitting in the chair.

# 5. OPERATING INSTRUCTIONS

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Operating your VERPAL Electric Wheelchair is intuitive with the 360° joystick controller.

## 1. Power On/Off:

Press the power button on the joystick controller to turn the wheelchair on or off. The battery indicator lights will illuminate upon power-on.

## 2. Movement Control:

Gently push the joystick in the desired direction: forward, backward, left, or right. The wheelchair will respond smoothly to your input. Release the joystick to return it to the center position; the electromagnetic brakes will automatically engage, bringing the wheelchair to a stop.

## 3. Speed Adjustment:

Use the speed acceleration (+) and deceleration (-) buttons on the joystick to adjust the wheelchair's speed. Start at a low speed setting until you are comfortable with the controls.

## 4. Horn:

Press the horn button to alert others of your presence.

#### 5. Battery Display:

Monitor the battery display lights on the joystick. Recharge the battery when the indicator shows low power to avoid unexpected power loss.

#### 6. Navigating Terrains:

The wheelchair is equipped with shock-absorbing wheels and powerful motors for various terrains. However, always exercise caution on uneven surfaces, gravel, or small obstacles like deceleration belts (speed bumps). Avoid sudden movements on challenging terrain.



Figure 5.1: Demonstrating the wheelchair's ability to handle minor obstacles like deceleration belts.

## 6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your wheelchair.

#### • Battery Care:

Charge the battery regularly, even if the wheelchair is not in frequent use, to maintain battery health. Avoid completely draining the battery. Store the battery in a cool, dry place.

#### • Cleaning:

Wipe down the wheelchair frame and components with a damp cloth. Do not use abrasive cleaners or spray water

directly onto electrical components.

- **Tire Inspection:**

Periodically check the puncture-resistant rubber tires for any signs of wear, cuts, or debris. While puncture-resistant, regular inspection is recommended.

- **General Inspection:**

Regularly check all nuts, bolts, and fasteners to ensure they are tight. Inspect the folding mechanism for smooth operation and ensure it locks securely.

## 7. TROUBLESHOOTING

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If you encounter issues with your VERPAL Electric Wheelchair, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
Wheelchair does not power on.	Battery is low or depleted; power button not pressed correctly; loose battery connection.	Charge the battery fully. Ensure the power button is pressed firmly. Check that all battery connections are secure.
Wheelchair does not move.	Power is off; joystick not engaged; electromagnetic brakes engaged; motor issue.	Ensure power is on. Push the joystick firmly in the desired direction. Check if the brakes are disengaged (if applicable, though electromagnetic brakes engage automatically when joystick is released). If problem persists, contact support.
Unusual noises during operation.	Loose components; debris in wheels; motor issue.	Inspect for loose parts and tighten if necessary. Clear any debris from wheels. If noise persists, contact support.
Battery indicator shows low power quickly.	Battery not fully charged; aging battery; excessive load.	Ensure battery is fully charged before use. If battery life significantly decreases, consider battery replacement. Avoid exceeding weight limits.

If you experience any issues not covered here or if troubleshooting steps do not resolve the problem, please contact VERPAL customer support.

## 8. SPECIFICATIONS

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Key technical specifications for the VERPAL Electric Wheelchair (Model: 16.1 inches-Black):

**Model:** 16.1 inches-Black

**Brand:** VERPAL

**Weight:** Approximately 33 lbs (15 kg)

**Motor Type:** Dual 180W Brushless Motors

**Max Climbing Angle:** Up to 12°

**Max Travel Range:** Up to 12 miles (19.3 km) per charge

**Material:** Aircraft-Grade Aluminum Alloy

**Seat Width:** 16.1 Inches (40.9 cm)

**Unfolded Dimensions (L x W x H):** Approximately 37" x 22" x 37" (94 cm x 56 cm x 94 cm)

**Folded Dimensions (L x W x H):** Approximately 35" x 22" x 15" (89 cm x 56 cm x 38 cm)

**Brake System:** Electromagnetic Brakes

**Tire Type:** Puncture-Resistant Rubber Tires



Figure 8.1: Product dimensions in both unfolded and folded configurations.

**Folds up easily  
without taking up space**



**Compatible with sedan; SUV; MPV two-seater**

Figure 8.2: The wheelchair folded for easy storage and transport in a vehicle.

## 9. WARRANTY AND SUPPORT

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For warranty information, technical support, or any inquiries regarding your VERPAL Electric Wheelchair, please contact VERPAL customer service. Keep your purchase receipt and product model information handy when contacting support.

**VERPAL Customer Service:** Please refer to the contact information provided at the point of purchase or on the official VERPAL website.

