

## Rubicon DX06

# Rubicon DX06 Super Lightweight Electric Wheelchair User Manual

Model: DX06

## INTRODUCTION

Thank you for choosing the Rubicon DX06 Super Lightweight Electric Wheelchair. This manual provides essential information for the safe and effective use, maintenance, and troubleshooting of your new electric wheelchair. Please read this manual thoroughly before operating the device and retain it for future reference. The Rubicon DX06 is designed for individuals requiring mobility assistance, offering a lightweight, foldable, and easy-to-operate solution for both indoor and outdoor use.

## IMPORTANT SAFETY INFORMATION

Always prioritize safety when operating the Rubicon DX06 electric wheelchair. Failure to follow safety guidelines may result in injury or damage to the device.

- **Read All Instructions:** Familiarize yourself with all controls and features before first use.
- **Weight Capacity:** Do not exceed the maximum weight capacity of 220 lbs (100 kg).
- **Slope Limits:** Do not attempt to climb slopes exceeding 8 degrees.
- **Braking:** Always engage the electromagnetic brake when stopped, especially on inclines.
- **Environmental Conditions:** Avoid operating the wheelchair in extreme weather conditions, such as heavy rain or snow, to prevent damage to electronic components.
- **Maintenance:** Regularly inspect the wheelchair for any signs of wear or damage. Do not operate if any components are compromised.
- **Children and Pets:** Keep children and pets away from the wheelchair during operation and charging.
- **Airline Travel:** The 10AH battery is airline compliant. Always confirm current regulations with your airline before travel.

## SETUP AND INITIAL ASSEMBLY

Follow these steps to prepare your Rubicon DX06 electric wheelchair for first use:

1. **Unpack:** Carefully remove the wheelchair from its packaging.
2. **Unfold:** The Rubicon DX06 features a 1-second folding mechanism. To unfold, release the locking mechanism and gently pull the frame apart until it clicks into place. Ensure all parts are securely locked.
3. **Battery Installation/Charging:** The detachable 10AH lithium-ion battery may require initial charging. Connect the charger to the battery and a standard power outlet. The charging time is approximately 6-8 hours. Ensure the battery is fully charged before first use.
4. **Joystick Attachment:** Attach the 360-degree universal joystick to the desired armrest. Ensure it is securely fastened and the cable is properly connected.
5. **Footrest Adjustment:** Adjust the footrest to a comfortable position. The footrest can collapse inward for easier standing or transfers.
6. **Armrest Adjustment:** The double-joint armrests can be lifted up for easier access to tables or for transfers.
7. **Seat Cushion and Backrest:** Ensure the seat cushion and backrest cover are properly installed and comfortable. These are made of air-breeze material and can be detached for washing.



Image: The Rubicon DX06 electric wheelchair shown in both its unfolded and folded states, highlighting its compact design for

storage and transport.



Image: Detailed view of the Rubicon DX06 electric wheelchair with key dimensions labeled, including seat width, height, and overall length and width.

## OPERATING INSTRUCTIONS

Operating your Rubicon DX06 electric wheelchair is straightforward. Follow these guidelines for safe and effective use:

### Powering On/Off

- To power on, press the power button on the joystick controller. The indicator lights will illuminate.
- To power off, press and hold the power button until the lights turn off.

### Driving

- **Joystick Control:** Use the 360-degree universal joystick to control direction and speed. Push the

joystick forward to move forward, backward to reverse, and left or right to turn.

- **Speed Adjustment:** The joystick controller allows for adjustable speeds from 1-4 mph. Use the speed control buttons (usually '+' and '-') on the joystick to select your desired speed. Start with a low speed until you are comfortable with the controls.
- **Braking:** The intelligent electromagnetic brake system automatically engages when the joystick is released, ensuring smooth and safe stops. For emergency stops, simply release the joystick.
- **Maneuvering:** The wheelchair is equipped with brushless motors and high-quality rubber tires for better traction, making it easier to navigate various terrains and slopes up to 8 degrees.

## Folding and Transport

The Rubicon DX06 is designed for easy folding and transport:

- **Folding:** To fold, ensure the power is off. Locate the folding mechanism (typically a lever or button) and activate it. Gently push the wheelchair frame together until it locks into its folded position. This process takes approximately 1 second.
- **Portability:** Once folded, the wheelchair can be easily placed in the trunk of most vehicles or dragged like a suitcase. Its lightweight design (approximately 40 lbs) enhances portability.
- **Airline Compliance:** The 10AH battery is airline compliant, making the DX06 suitable for worldwide travel. Always verify current airline regulations before your trip.



Image: A person easily carrying the folded Rubicon DX06 electric wheelchair, demonstrating its lightweight and portable design.



Image: The Rubicon DX06 electric wheelchair demonstrating its liftable armrests for easy front or side entry and closer access to surfaces.

Your browser does not support the video tag.

Video: An official product video showcasing the Rubicon DX06 Super Lightweight Electric Wheelchair in various operational scenarios, demonstrating its features and ease of use.

## MAINTENANCE AND CARE

Regular maintenance ensures the longevity and optimal performance of your Rubicon DX06 electric wheelchair.

- **Cleaning:** Wipe down the frame and other surfaces with a damp cloth. Avoid using abrasive cleaners. The seat cushion and backrest cover can be detached and washed.
- **Battery Care:** Always charge the battery fully after each use. Do not allow the battery to completely discharge. If storing the wheelchair for an extended period, charge the battery at least once a month.
- **Tire Inspection:** The wheelchair features puncture-free rubber tires. Regularly check tires for debris or damage.
- **Component Check:** Periodically inspect all bolts, screws, and connections to ensure they are tight and secure. Check the joystick and brake system for proper function.
- **Storage:** Store the wheelchair in a dry, cool place, away from direct sunlight and extreme temperatures.

## TROUBLESHOOTING GUIDE

If you encounter issues with your Rubicon DX06, refer to this guide before contacting support.

| Problem                                   | Possible Cause  | Solution  |
|---|---|---|
| Wheelchair does not power on              | Battery is low or not connected; Power button not pressed correctly | Charge the battery; Ensure battery is securely connected; Press power button firmly.                                      |
| Wheelchair moves slowly or inconsistently | Low battery; Speed setting too low; Obstruction in wheels           | Charge the battery; Increase speed setting on joystick; Check wheels for obstructions.                                    |
| Brakes not engaging/disengaging properly  | Joystick malfunction; Brake system issue                            | Ensure joystick is fully released; If problem persists, contact customer support.   |
| Unusual noises during operation           | Loose components; Motor issue; Obstruction                          | Inspect for loose parts and tighten; Check for obstructions in wheels/motors; Contact customer support if noise persists. |

## SPECIFICATIONS

Key technical specifications for the Rubicon DX06 Electric Wheelchair:

| Feature                         | Specification                                   |
|---------------------------------|---|
| Model                           | DX06  |
| Net Weight                      | Approximately 40 lbs (18 kg)                    |
| Weight Capacity                 | 220 lbs (100 kg)                                |
| Travel Distance                 | Up to 10 miles (16 km)                          |
| Climbing Slope                  | 8 degrees Max                                   |
| Battery Type                    | 24V 10AH Super Lithium-Ion LiFePO4 (Detachable) |
| Battery Charging Time           | 6-8 Hours                                       |
| Brake System                    | Intelligent Electromagnetic Brake               |
| Unfolded Dimensions (L x W x H) | 30" x 37" x 23" (76.2 cm x 94 cm x 58.4 cm)     |
| Folded Dimensions (L x W x H)   | 16" x 23" x 31" (40.6 cm x 58.4 cm x 78.7 cm)   |
| Seat Width                      | 18" (45.7 cm)                                   |
| Seat Height                     | 18" (45.7 cm)                                   |
| Frame Material                  | Aluminum Alloy                                  |
| Wheel Material                  | Polyurethane (PU)                               |
| Front Wheel Size (D x W)        | 6" x 1.8" (15.2 cm x 4.6 cm)                    |

| Feature                 | Specification  |
|-------------------------|--|
| Rear Wheel Size (D x W) | 10" x 1.8" (25.4 cm x 4.6 cm)                          |
| Motor Type              | Brushless DC Electric                                  |
| Controller Type         | Detachable All-Direction 360 Degree Universal Joystick |
| Safety Features         | Safety Anti-Tip wheels, Front and Rear Suspension      |

# RUBICON



Image: The Rubicon DX06 electric wheelchair in its folded state, displaying its compact dimensions for storage and transport.

## WARRANTY AND SUPPORT

Rubicon Mobility is committed to providing excellent service. For any inquiries or support needs, please contact us.

- **Customer Service:** Expect a response to your inquiries within 24 hours.
- **Warranty Information:** For detailed warranty terms and conditions, please refer to the documentation provided with your purchase or contact Rubicon Mobility directly.

- **Contact:** For special needs or further assistance, please send us a system mail.