

## Rubicon DX04 (Model2)

# Rubicon DX04 Foldable Electric Wheelchair User Manual

Model: DX04 (Model2)

World's Lightest Travel Size Electric Wheelchair

## 1. INTRODUCTION AND OVERVIEW

The Rubicon DX04 is a super lightweight, foldable electric wheelchair designed for convenient mobility indoors, outdoors, and while traveling. Engineered for user-friendliness and portability, it offers a blend of performance and safety features.

### Key Features:

- **Lightweight Design:** Weighs only 30 pounds, making it one of the world's lightest foldable power wheelchairs.
- **Quick-Fold Convenience:** Folds in just 3 seconds for easy transport and storage.
- **Extended Range:** Offers a cruise range of up to 10 miles on a single charge.
- **Efficient Speed:** Reaches speeds up to 4 mph.
- **Enhanced Safety:** Equipped with dual brushless motors, an electromagnetic brake system, and anti-tip wheels.
- **Comfort:** Features an 18-inch seat width and a breathable air-breeze seat cushion and backrest cover.
- **Travel-Ready:** Airline-approved 10AH high-performance battery for global travel.



Figure 1.1: The Rubicon DX04 Electric Wheelchair in its fully assembled, open position.

## 2. SETUP AND ASSEMBLY

The Rubicon DX04 is designed for minimal assembly. Follow these steps to prepare your wheelchair for first use:

1. **Unfolding the Wheelchair:** Gently pull the wheelchair frame apart until it locks into its open position. Ensure all locking mechanisms are securely engaged.
2. **Attaching Anti-Tip Wheels:** Locate the two anti-tip wheels. Insert them into the designated slots at the rear base of the wheelchair until they click into place. These provide additional stability, especially on inclines.
3. **Installing the Joystick Controller:** Slide the joystick controller onto the arm bracket on either the left or right side, according to user preference. Secure it firmly.
4. **Battery Installation (if detached):** If the battery is not pre-installed, slide the 10AH high-performance battery into its compartment located under the seat. Ensure it clicks securely into place and the connection is firm.
5. **Initial Charging:** Before first use, fully charge the battery. Connect the charger to the charging port on the wheelchair and then plug it into a standard electrical outlet. The charging time is approximately 6 hours.

 **Detachable  
Battery**

**DX04**



Figure 2.1: The DX04 features a quick-fold design for easy storage and transport.



Figure 2.2: The detachable battery allows for convenient charging and replacement.

## Setup and Operation Video:

Video 2.1: This video demonstrates the folding mechanism, anti-tip wheel feature, speed, range, and detachable battery of the Rubicon DX04 Electric Wheelchair.

### 3. OPERATING INSTRUCTIONS

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Operating the Rubicon DX04 is intuitive. Familiarize yourself with the controls before use.

#### Joystick Control:

- The 360-degree joystick provides precise control over movement.
- Push the joystick forward to move forward, pull back to move backward, and move left or right to steer.
- Release the joystick to engage the electromagnetic brake system, which will bring the wheelchair to a stop.

#### Speed and Range:

- The DX04 can reach speeds of up to 4 mph.
- A fully charged battery provides a cruise range of up to 10 miles, depending on terrain, user weight, and driving style.

#### Safety Features in Operation:

- **Anti-Tip Support:** The hydraulic anti-tilt support and anti-tip wheels ensure stability, especially when navigating inclines or uneven surfaces.
- **Electromagnetic Brakes:** This system provides reliable and immediate stopping power when the joystick is released.
- **Solid Tires:** The puncture-proof rubber tires offer durability and consistent performance without the need for inflation.



Figure 3.1: The DX04 is designed for smooth operation in various outdoor environments.

## 4. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your Rubicon DX04 wheelchair.

### Battery Care:

- Charge the battery fully after each use, even if only used for a short period.
- Avoid completely draining the battery, as this can reduce its lifespan.
- If storing the wheelchair for an extended period, ensure the battery is fully charged and recharge it every 1-2 months.
- Use only the charger provided by Rubicon.

### Cleaning:

- The breathable air-breeze seat cushion and backrest cover can be easily removed for cleaning. Follow fabric care instructions.
- Wipe down the frame and other surfaces with a damp cloth. Avoid using abrasive cleaners or excessive water.
- Keep the joystick and electrical components dry.

### Tire and Wheel Inspection:

- Periodically inspect the solid puncture-proof rubber tires for any signs of wear or damage.

- Ensure all wheels spin freely and are not obstructed.

## 5. TROUBLESHOOTING

If you encounter issues with your Rubicon DX04, refer to the following common problems and solutions:

| Problem                                    | Possible Cause   | Solution  |
|--|--|---|
| Wheelchair does not power on.              | Battery not charged or not properly connected.         | Ensure battery is fully charged and securely inserted. Check all electrical connections, especially the main connection at the back of the chair to the joystick. |
| Wheelchair moves slowly or inconsistently. | Low battery charge; motor obstruction; joystick issue. | Recharge battery. Check for debris around motors or wheels. If issues persist, contact customer support.  |
| Brakes do not engage properly.             | Joystick not fully released; electrical fault.         | Ensure joystick is in the neutral position. If the problem continues, do not use the wheelchair and contact support.  |
| Wheelchair feels unstable.                 | Anti-tip wheels not installed or damaged.              | Verify anti-tip wheels are correctly installed and not damaged. Always use them for added stability.  |

If you experience any issues not listed here or if the suggested solutions do not resolve the problem, please contact Rubicon customer support for assistance.

## 6. SPECIFICATIONS

| Feature                      | Detail   |
|------------------------------|--|
| Model                        | DX04 (Model2)  |
| Brand                        | Rubicon  |
| Weight (without attachments) | Approximately 30 lbs                                 |
| Max Speed                    | Up to 4 mph  |
| Cruise Range                 | Up to 10 miles                                       |
| Battery Type                 | 10AH High-Performance Lithium-Ion (Airline Approved) |
| Charging Time                | Approximately 6 hours                                |



| Feature           | Detail                     |
|-------------------|----------------------------|
| Motors            | Dual Brushless Motors      |
| Seat Width        | 18 inches                  |
| Front Wheels      | 9 inches (solid rubber)    |
| Rear Wheels       | 12.5 inches (solid rubber) |
| Brake System      | Electromagnetic            |
| Manufacturer      | INNUOVO                    |
| Country of Origin | China                      |

**Dimensions:**



Figure 6.1: Unfolded dimensions of the DX04.



Figure 6.2: Folded dimensions of the DX04 for compact storage.

## 7. SAFETY INFORMATION

Always prioritize safety when operating your electric wheelchair. Adhere to the following guidelines:

- Always ensure the anti-tip wheels are properly installed and engaged, especially when navigating inclines or uneven surfaces.
- Familiarize yourself with the electromagnetic brake system and ensure it functions correctly before each use.
- Avoid operating the wheelchair on excessively steep slopes or unstable terrain.
- Do not exceed the maximum weight capacity of the wheelchair.
- Keep hands and clothing clear of moving parts, especially wheels and motors.
- Always turn off the power when getting in or out of the wheelchair.
- Statements regarding dietary supplements have not been evaluated by the FDA and are not intended to diagnose, treat, cure, or prevent any disease or health condition. (*Note: This disclaimer is from the product's legal information and is included as per instructions, though its relevance to a wheelchair manual is limited.*)



## 8. WARRANTY AND SUPPORT

Rubicon is committed to providing high-quality products and excellent customer service.

### Warranty:

The Rubicon DX04 Electric Wheelchair comes with a 5-year warranty, ensuring peace of mind regarding manufacturing defects and major components. Please refer to your purchase documentation for specific terms and conditions.


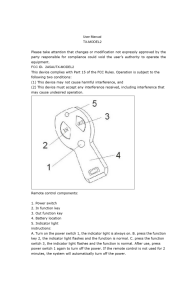

### Customer Support:








Our products are serviced in the USA. For any questions, technical assistance, or warranty claims, please contact Rubicon customer support. Contact information can typically be found on our official website or your purchase receipt.

When contacting support, please have your model number (DX04) and purchase date ready to expedite assistance.

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### Related Documents - DX04 (Model2)

|   |   |
|---|---|
|  | <p><a href="#">Rubicon Industrial Automation Product Catalogue: Control, Automation, and Electrical Solutions</a></p> <p>Explore the comprehensive Rubicon Industrial Automation Product Catalogue, featuring a wide range of solutions including control panels, enclosures, sensors, PLCs, power supplies, surge protection, and more from leading brands like Rittal, Siemens, and Schneider Electric.</p> |
|  | <p><a href="#">TX-MODEL2 Wireless Remote Control User Manual</a></p> <p>User manual for the TX-MODEL2 wireless remote control, detailing components, operation instructions, and technical specifications for use with high-power driving equipment like winches and rolling shutters.</p>  |
|  | <p><a href="#">Canopia Rubicon 6x5 / 2x1.5 Garden Shed Assembly Instructions</a></p> <p>Detailed assembly instructions for the Canopia Rubicon 6x5 / 2x1.5 garden shed, including site preparation, foundation types, anchoring, safety advice, and maintenance.</p>  |

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|---|--|--------------------|----|------------------|--------|----|------------------|---------|----|------------------|-------------|----|------------------|-----------|----|------------------|-------------|----|------------------|--------------------------|----|------------------|-------|----|--|
| <div><div><div>RUBICON</div><div>302<br/>502<br/>1002</div><div>Power Amplifiers</div><div>Owner's Manual<br/>and<br/>Installation Guide</div></div><div></div></div>  | <div><div><a href="#">Soundstream RUBICON Series Power Amplifiers Owner's Manual and Installation Guide</a></div><div>This manual provides detailed information for the Soundstream RUBICON 302, 502, and 1002 power amplifiers, covering design features, installation procedures, wiring diagrams, troubleshooting, and technical specifications.</div></div>  |                    |    |                  |        |    |                  |         |    |                  |             |    |                  |           |    |                  |             |    |                  |                          |    |                  |       |    |  |
| <div><div><div><br/><br/>RUBICON<br/>805/405<br/>5/3 Channel<br/>Power Amplifiers<br/>Owner's Manual<br/>and<br/>Installation Guide</div><div></div></div></div>   | <div><div><div><a href="#">Soundstream RUBICON 805/405 5/3 Channel Power Amplifier Owner's Manual and Installation Guide</a></div><div>This document is the owner's manual and installation guide for the Soundstream RUBICON 805 and 405 5/3 Channel Power Amplifiers. It details design features, installation steps, wiring diagrams, crossover adjustments, troubleshooting, and specifications.</div></div></div> |                    |    |                  |        |    |                  |         |    |                  |             |    |                  |           |    |                  |             |    |                  |                          |    |                  |       |    |  |
| <div><div><div><table><tr><td>1-800-4-A-MAKITA</td><td>INSTRUCTION MANUAL</td><td>10</td></tr><tr><td>1-800-4-A-MAKITA</td><td>SAFETY</td><td>11</td></tr><tr><td>1-800-4-A-MAKITA</td><td>WARNING</td><td>12</td></tr><tr><td>1-800-4-A-MAKITA</td><td>PRECAUTIONS</td><td>13</td></tr><tr><td>1-800-4-A-MAKITA</td><td>OPERATION</td><td>14</td></tr><tr><td>1-800-4-A-MAKITA</td><td>MAINTENANCE</td><td>15</td></tr><tr><td>1-800-4-A-MAKITA</td><td>TECHNICAL SPECIFICATIONS</td><td>16</td></tr><tr><td>1-800-4-A-MAKITA</td><td>INDEX</td><td>17</td></tr></table></div><div></div></div></div> | 1-800-4-A-MAKITA   | INSTRUCTION MANUAL | 10 | 1-800-4-A-MAKITA | SAFETY | 11 | 1-800-4-A-MAKITA | WARNING | 12 | 1-800-4-A-MAKITA | PRECAUTIONS | 13 | 1-800-4-A-MAKITA | OPERATION | 14 | 1-800-4-A-MAKITA | MAINTENANCE | 15 | 1-800-4-A-MAKITA | TECHNICAL SPECIFICATIONS | 16 | 1-800-4-A-MAKITA | INDEX | 17 | <div><div><div><a href="#">Makita DHR280/DHR281/DHR282/DHR283 Cordless Rotary Hammer Instruction Manual</a></div><div>Comprehensive instruction manual for Makita DHR280, DHR281, DHR282, and DHR283 cordless rotary hammers, covering specifications, safety, operation, and maintenance.</div></div></div> |
| 1-800-4-A-MAKITA  | INSTRUCTION MANUAL   | 10                 |    |                  |        |    |                  |         |    |                  |             |    |                  |           |    |                  |             |    |                  |                          |    |                  |       |    |  |
| 1-800-4-A-MAKITA  | SAFETY   | 11                 |    |                  |        |    |                  |         |    |                  |             |    |                  |           |    |                  |             |    |                  |                          |    |                  |       |    |  |
| 1-800-4-A-MAKITA  | WARNING  | 12                 |    |                  |        |    |                  |         |    |                  |             |    |                  |           |    |                  |             |    |                  |                          |    |                  |       |    |  |
| 1-800-4-A-MAKITA  | PRECAUTIONS  | 13                 |    |                  |        |    |                  |         |    |                  |             |    |                  |           |    |                  |             |    |                  |                          |    |                  |       |    |  |
| 1-800-4-A-MAKITA  | OPERATION  | 14                 |    |                  |        |    |                  |         |    |                  |             |    |                  |           |    |                  |             |    |                  |                          |    |                  |       |    |  |
| 1-800-4-A-MAKITA  | MAINTENANCE  | 15                 |    |                  |        |    |                  |         |    |                  |             |    |                  |           |    |                  |             |    |                  |                          |    |                  |       |    |  |
| 1-800-4-A-MAKITA  | TECHNICAL SPECIFICATIONS   | 16                 |    |                  |        |    |                  |         |    |                  |             |    |                  |           |    |                  |             |    |                  |                          |    |                  |       |    |  |
| 1-800-4-A-MAKITA  | INDEX  | 17                 |    |                  |        |    |                  |         |    |                  |             |    |                  |           |    |                  |             |    |                  |                          |    |                  |       |    |  |