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› [Rubicon](#) /

› [Rubicon DX01 All-Terrain Foldable Electric Wheelchair \(Model3\) User Manual](#)

Rubicon DX01

Rubicon DX01 All-Terrain Foldable Electric Wheelchair (Model3) User Manual

Model: DX01

1. INTRODUCTION

This manual provides essential instructions for the safe and effective operation, maintenance, and troubleshooting of your Rubicon DX01 All-Terrain Foldable Electric Wheelchair. Please read this manual thoroughly before initial use and retain it for future reference. Proper understanding and adherence to these instructions will ensure optimal performance and user safety.

Safety Information

- Always perform a pre-operation check before each use.
- Ensure all bolts and nuts are tight, especially before first use and periodically thereafter.
- Do not exceed the maximum weight capacity of 300 lbs.
- Avoid operating the wheelchair on inclines steeper than recommended in the specifications.
- Familiarize yourself with the electromagnetic brake system and its automatic engagement upon joystick release.



Image 1.1: The Rubicon DX01 All-Terrain Foldable Electric Wheelchair, showcasing its overall design and robust construction.

2. PRODUCT COMPONENTS OVERVIEW

The Rubicon DX01 electric wheelchair consists of several key components designed for functionality and user comfort. Understanding each part is crucial for proper operation and maintenance.

- **Joystick Controller:** For directional and speed control.
- **Armrests:** Double-jointed for support and accessibility.
- **Seat and Backrest:** Ergonomically designed for comfort.
- **Footrests:** Collapsible for easier transfers.
- **Drive Wheels:** Rear wheels with 250W*2 motors for propulsion.
- **Caster Wheels:** Front wheels for steering.

- **Batteries:** Power source for the motors and electronics.
- **Electromagnetic Brakes:** Automatic braking system.
- **Anti-Tip Supports:** Rear supports for enhanced stability.



Image 2.1: Exploded view of the Rubicon DX01, showing detachable footrests and other key components.

3. SETUP AND INITIAL ASSEMBLY

Your Rubicon DX01 wheelchair arrives largely pre-assembled. Follow these steps for initial setup.

1. **Unfolding the Wheelchair:** Gently pull the backrest upwards and outwards until the frame locks into place. Ensure all locking mechanisms are securely engaged.
2. **Attaching Footrests:** Insert the footrest assemblies into their designated slots on the front frame. Ensure they click into place securely.
3. **Joystick Installation:** The joystick controller can be mounted on either the left or right armrest. Secure it firmly using the provided fasteners.

4. **Battery Connection:** Verify that the battery is properly seated and connected.
5. **Initial Inspection:** Before first use, inspect all visible bolts, nuts, and connections to ensure they are tight. Pay particular attention to wheel attachments and frame joints.



Image 3.1: The Rubicon DX01 in its folded state, demonstrating its compact design for storage and transport.

4. BATTERY CHARGING

To ensure optimal battery life and performance, follow these charging instructions.

1. **Connect Charger:** Plug the charger into the battery charging port on the wheelchair.
2. **Connect to Power:** Plug the charger into a standard electrical outlet.
3. **Charging Indicator:** The charger will typically have an indicator light to show charging status (e.g., red for charging, green for fully charged).
4. **Charging Time:** Allow 6 to 8 hours for a full charge. Do not overcharge the battery.
5. **Disconnect:** Once fully charged, disconnect the charger from the outlet first, then from the wheelchair.

A fully charged battery provides a range of up to 12 miles, depending on terrain and user weight.

5. OPERATION

Operating the Rubicon DX01 is intuitive with its joystick control. Always operate in a safe environment and be aware of your surroundings.

Joystick Control

- **Power On/Off:** Press the power button on the joystick controller to turn the wheelchair on or off.
- **Direction:** Push the joystick forward to move forward, backward to reverse, and left or right to steer.
- **Speed Adjustment:** Use the speed control buttons (usually '+' and '-') on the joystick to adjust the maximum speed. The wheelchair can reach a maximum speed of 4 mph.
- **Braking:** The electromagnetic brake system automatically engages when the joystick is released, bringing the wheelchair to a smooth stop.

Terrain Navigation

The Rubicon DX01 is designed for versatile use across various terrains, including grass, gravel, mud, and slopes, thanks to its robust motors and high-quality rubber tires. Exercise caution on uneven or slippery surfaces.

Apply to different road!

LOW FAILURE RATE, START FAST, STRONG CLIMBING ABILITY
DETAILS ENSURE SAFETY

grass land



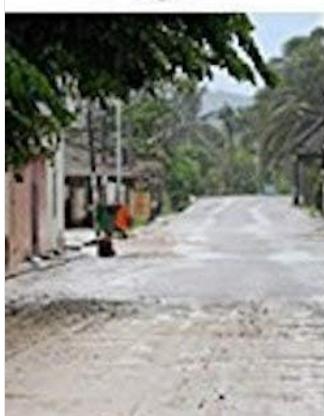
deceleration strip road



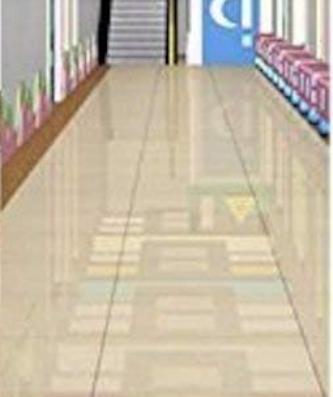
brick road



muddy road



bumpy road



snow road

floor tile

Image 5.1: Illustration of the Rubicon DX01's capability to navigate different surfaces such as grass, ramps, brick roads, and muddy paths.

6. FOLDING AND TRANSPORT

The Rubicon DX01 features a 3-second folding mechanism for convenient storage and transport.

1. **Power Off:** Ensure the wheelchair is powered off.
2. **Fold Footrests:** Collapse the footrests upwards.
3. **Initiate Fold:** Locate the folding release mechanism (refer to specific product diagrams if available) and activate it.
4. **Fold Down:** Gently push the backrest forward and down towards the seat until the wheelchair is fully folded.
5. **Secure:** Ensure any locking pins or straps are engaged to keep the wheelchair in its folded position.

The lightweight design allows for easy placement in vehicle trunks and is airline approved for travel.

Rugged Design WHEELCHAIR



300lb
Carrying
Capacity
300

Only
70 lbs



Swift Folding &
EASY
TRANSPORT

Image 6.1: The Rubicon DX01 in both its unfolded and folded states, highlighting its rugged design and ease of transport.

7. MAINTENANCE AND CARE

Regular maintenance ensures the longevity and safe operation of your Rubicon DX01 wheelchair.

- **Cleaning:** Wipe down the frame and components with a damp cloth. Avoid using abrasive cleaners or direct water spray on electrical parts.
- **Tire Pressure:** Periodically check tire pressure and inflate as needed (refer to tire sidewall for recommended pressure).
- **Fastener Checks:** Regularly inspect all bolts, nuts, and screws for tightness. Tighten any loose fasteners immediately.
- **Battery Care:** Store the battery in a cool, dry place. Charge regularly, even if not in frequent use, to maintain battery health.
- **Storage:** When not in use for extended periods, store the wheelchair in a dry, protected area.

8. TROUBLESHOOTING

This section addresses common issues you might encounter with your Rubicon DX01 wheelchair.

Problem	Possible Cause	Solution
Wheelchair does not power on.	Battery not charged or connected.	Ensure battery is fully charged and properly connected. Check power button.
Wheelchair does not move.	Joystick not engaged, power off, or brake engaged.	Ensure power is on, joystick is pushed, and no manual brake is engaged (if applicable).
Reduced range or power.	Low battery charge, worn battery, or heavy load.	Fully charge battery. If issue persists, battery may need replacement. Reduce load.
Unusual noises during operation.	Loose components or debris in wheels.	Inspect for loose bolts/nuts and tighten. Clear any debris from wheels and axles.

9. SPECIFICATIONS

Key technical specifications for the Rubicon DX01 Electric Wheelchair.

- **Model:** DX01
- **Motor Power:** 250W x 2 (Dual Motors)
- **Max Speed:** 4 mph
- **Range per Charge:** Up to 12 miles
- **Weight Capacity:** 300 lbs
- **Product Dimensions (Unfolded):** 38"D x 27"W x 38"H
- **Material:** Aluminum
- **Braking System:** Electromagnetic

FOLDABLE DESIGN

Fits in most trunks & through most doorways



Image 9.1: Detailed dimensions of the Rubicon DX01 Electric Wheelchair in its operational state.

10. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the documentation included with your purchase or contact Rubicon customer service. It is recommended to register your product to facilitate any future support needs.

Legal Disclaimer: 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. This product is a mobility aid and not a medical device intended for diagnosis or treatment.

	<p>Canopia Rubicon 6x5 / 2x1.5 Garden Shed Assembly Instructions</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>
	<p>Soundstream RUBICON 805/405 5/3 Channel Power Amplifier Owner's Manual and Installation Guide</p> <p>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.</p>
	<p>Carrera RC Model Car Assembly and Operating Instructions</p> <p>Comprehensive assembly and operating manual for Carrera RC model cars, including safety guidelines, warranty information, and troubleshooting tips for models like the Ford F-150 Raptor and Jeep Wrangler Rubicon.</p>
	<p>DALI RUBICON C Loudspeaker Manual</p> <p>Comprehensive manual for the DALI RUBICON C loudspeakers, covering setup, connection, usage, positioning, cleaning, maintenance, and disposal. Learn how to optimize your listening experience with these high-fidelity speakers.</p>
	<p>Netgate-4200 Security Gateway Manual</p> <p>A comprehensive guide to setting up, configuring, and managing the Netgate-4200 Security Gateway, powered by pfSense Plus software. Covers initial connection, network configuration, hardware details, and troubleshooting.</p>
	<p>2022 Jeep Wrangler Owner's Manual</p> <p>Comprehensive owner's manual for the 2022 Jeep Wrangler, covering features, operation, maintenance, and safety.</p>