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loktch HE702-1

loktch Ultra-Light Foldable Electric Wheelchair Model HE702-1 User Manual

Comprehensive instructions for safe and effective use.

1. Introduction

Thank you for choosing the loktch Ultra-Light Foldable Electric Wheelchair Model HE702-1. This manual provides essential information for the safe operation, maintenance, and care of your new electric wheelchair. Please read this manual thoroughly before initial use and retain it for future reference.

2. Safety Information

Your safety is paramount. Adhere to all warnings and instructions to prevent injury or damage.

General Safety Guidelines:

- Always ensure the wheelchair is fully unfolded and locked before use.
- Do not exceed the maximum weight capacity of 330 lbs (150 kg).
- Operate the wheelchair on stable, level surfaces whenever possible. Avoid steep inclines exceeding 6 degrees.
- Always engage the electromagnetic braking system by releasing the joystick to stop. Use the manual handbrakes for additional security, especially on inclines or when stationary.
- Be aware of your surroundings and avoid obstacles.
- Ensure the anti-tip wheels are properly installed and functional to reduce the risk of tipping backward.
- Keep hands and clothing clear of moving parts.
- Do not operate the wheelchair under the influence of alcohol or medication that impairs judgment.
- Regularly inspect the wheelchair for any signs of wear, damage, or loose components.

3. Product Overview

The loktch HE702-1 is an ultra-light, foldable electric wheelchair designed for mobility and convenience. It features a durable aluminum alloy frame, powerful brushless motors, and an intelligent electromagnetic braking system.

Key Features:

- **Ultra-Lightweight Design:** Weighs approximately 32 lbs (14.5 kg) without battery for easy transport.
- **Foldable Frame:** Quick 3-second folding mechanism for compact storage and travel.
- **Dual Motor System:** Two 24V/180W DC motors provide reliable power.
- **Intelligent Joystick Control:** 360-degree responsive joystick for precise maneuvering and speed control.
- **Electromagnetic Braking:** Automatic braking upon joystick release for enhanced safety.
- **Manual Mode:** Can be switched to manual push mode by disengaging the motors.
- **Comfortable Seating:** Features soft, breathable, and removable cushions.
- **All-Terrain Wheels:** Honeycomb non-inflatable shock-absorbing wheels suitable for various surfaces.

Components Diagram:



Image 3.1: The loktch HE702-1 electric wheelchair shown in both its unfolded, ready-to-use state and its compact, folded state for transport. This image highlights the overall design and portability.



Image 3.2: Close-up view of the 360-degree joystick controller. Labels indicate the power display, power switch, horn button, speed display, acceleration button, and deceleration button, illustrating the user interface.

4. Setup and Initial Use

4.1 Unfolding the Wheelchair:

1. Place the folded wheelchair on a flat, stable surface.
2. Locate the latch mechanism (often red or yellow) on the frame. Release the latch.
3. Gently pull the backrest upwards and the seat downwards until the frame fully extends and locks into place. Ensure all locking mechanisms are engaged.
4. Lower the footrest into position.
5. Attach the joystick controller to the desired armrest (left or right) and secure it.



Image 4.1: Visual guide demonstrating the steps to unfold the wheelchair, including opening the latch, extending the frame, and achieving a fully open state. This image illustrates the ease of deployment.

4.2 Battery Installation and Charging:

The wheelchair is equipped with a removable lithium battery. For optimal performance, fully charge the battery before first use.

- Locate the battery compartment, typically under the seat.
- Insert the battery pack securely into its compartment. Ensure it clicks into place or is properly connected.
- Connect the charger to the charging port on the battery or joystick, then plug the charger into a standard electrical outlet.
- The charging indicator light on the charger will show the charging status (e.g., red for charging, green for fully charged).
- Charging time is approximately 5-7 hours for a full charge.
- Do not overcharge the battery. Disconnect the charger once charging is complete.



Image 4.2: Illustration of the removable lithium battery pack, emphasizing its design for easy removal and long-range capability. This image highlights the power source of the wheelchair.

5. Operating Instructions

5.1 Powering On/Off:

- To power on, press the power switch button on the joystick controller. The power display will illuminate.
- To power off, press the power switch button again.

5.2 Driving with the Joystick:

- Gently push the joystick forward to move forward. The further you push, the faster the wheelchair will go.
- Pull the joystick backward to move in reverse.
- Push the joystick left or right to turn in the corresponding direction.
- To stop, simply release the joystick. The electromagnetic brakes will engage automatically, bringing the wheelchair

to a smooth stop.

5.3 Speed Adjustment:

- Use the acceleration (+) and deceleration (-) buttons on the joystick to adjust the speed settings. The current speed level will be shown on the speed display.
- Start with a low speed setting until you are comfortable with the controls.

5.4 Manual Mode:

To operate the wheelchair manually (e.g., if the battery is depleted or for assistance), locate the red levers on the motors at the rear wheels. Flip these levers to disengage the motors, allowing the wheelchair to be pushed like a traditional manual wheelchair. Remember to re-engage the motors for electric operation.



Image 5.1: Close-up of the red lever on the motor, indicating how to switch between electric and manual modes. This lever allows the user or caregiver to push the wheelchair when electric power is not desired or available.

5.5 Braking System:

- **Electromagnetic Brake:** This is the primary braking system. It activates automatically when the joystick is released, providing a smooth and secure stop.
- **Manual Handbrakes:** For additional security, especially when parking on an incline or transferring, engage the manual handbrakes located on both sides of the rear wheels. Push the levers down to lock the wheels.



Image 5.2: Depiction of the intelligent electromagnetic braking system, showing the automatic stop function upon joystick release. It also highlights the manual handbrakes on both sides for double protection and safety.

6. Maintenance and Care

6.1 Cleaning:

- Wipe the frame with a damp cloth and mild detergent. Avoid harsh chemicals.
- The seat cushion and backrest are removable and can be cleaned according to their fabric care instructions.
- Keep the joystick controller dry and clean.

6.2 Battery Care:

- Charge the battery regularly, even if the wheelchair is not in frequent use, to maintain battery health.
- Store the battery in a cool, dry place.
- If storing for an extended period, charge the battery to about 50-70% capacity.
- Do not expose the battery to extreme temperatures.

6.3 General Inspection:

- Periodically check all nuts, bolts, and fasteners for tightness.
- Inspect the wheels for wear and tear.
- Ensure the anti-tip wheels are functioning correctly.
- Check the motor levers for proper engagement and disengagement.

7. Troubleshooting

Problem	Possible Cause	Solution
Wheelchair does not power on.	Battery not installed correctly or discharged. Power switch off.	Ensure battery is fully inserted and charged. Press the power switch.
Wheelchair does not move when joystick is pushed.	Motors disengaged (manual mode). Battery low. Joystick fault.	Engage motor levers. Charge battery. Contact support if joystick is unresponsive.
Wheelchair moves slowly or struggles on inclines.	Low battery. Speed setting too low. Overweight load.	Charge battery. Increase speed setting. Ensure weight capacity is not exceeded.
Unusual noises during operation.	Loose components. Obstruction in wheels/motors.	Inspect for loose parts and tighten. Check for obstructions. Contact support if noise persists.

8. Specifications

Feature	Detail
Model Number	HE702-1
Brand	loktch
Motor Type	24V/180W x 2 DC Brushless Motors
Lithium Battery Type	24V/6Ah
Battery Charging Time	5-7 hours
Travel Distance	Up to 5 miles (approx. 8 km)
Unfolded Dimensions (L x W x H)	33" x 22" x 36" (84 cm x 56 cm x 91 cm)
Seat Height	17" (43 cm)
Seat Width	16" (41 cm)
Seat Depth	15" (38 cm)

Feature	Detail
Wheelchair Weight (without battery)	32 lbs (14.5 kg)
Frame Material	Aluminum Alloy
Weight Capacity	330 lbs (150 kg)
Max Climbing Slope	6°
Special Features	Ultra-light, automatic foldable, powerful motor, high speed, 360 responsive joystick, intelligent braking



Image 8.1: Diagram illustrating the key dimensions (length, width, height, seat height, width, depth) and weight specifications of the wheelchair, including self-weight and maximum capacity.

9. Warranty and Support

For warranty information, technical support, or service inquiries, please contact your retailer or the manufacturer directly. Refer to your purchase documentation for specific warranty terms and contact details.
Manufacturer: loktch
Model: HE702-1

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