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Eldryvon EV02

Eldryvon EV02 Electric Mobility Scooter User Manual

Model: EV02

1. Introduction

Thank you for choosing the Eldryvon EV02 Electric Mobility Scooter. This manual provides essential information for the safe operation, assembly, maintenance, and troubleshooting of your new mobility device. Please read this manual thoroughly before using the scooter to ensure proper function and to prevent injury or damage.

The Eldryvon EV02 is a lightweight, foldable 4-wheel electric powered scooter designed for adults and seniors, offering enhanced mobility with its robust 350W motor and 15Ah detachable battery. It supports up to 300 lbs and is suitable for various terrains.



Figure 1.1: Eldryvon EV02 Electric Mobility Scooter. This image shows the complete scooter in red, highlighting its compact design and the front basket. A smartphone is depicted charging from the scooter's USB port.

2. Safety Information

Your safety is paramount. Always adhere to the following safety guidelines:

- Always ensure the scooter is fully charged before long trips.
- Do not operate the scooter under the influence of alcohol or medication.
- Observe all local traffic laws and regulations.
- Avoid sudden stops or turns, especially at high speeds.
- Ensure the anti-tip wheels are properly installed and functional.
- Use the front light and horn as necessary for visibility and warning.

- Do not exceed the maximum weight capacity of 300 lbs.
- Avoid operating the scooter on excessively steep slopes (maximum 15°).
- Keep hands and feet clear of moving parts.
- Store the scooter in a dry, safe place away from extreme temperatures.

The scooter is equipped with a front anti-collision bar, rear anti-tip wheel, front light, and a backup horn for enhanced safety.

3. Components and Parts Identification

Familiarize yourself with the main components of your Eldryvon EV02 scooter:



Figure 3.1: Control Panel Overview. This image highlights the various controls on the scooter's handlebar, including the Power Indicator, Speed Adjustment knob, Key Switch, Horn Button, Front Light Button, Left Control Lever, Right Control Lever, and USB charging port.

Tiller/Handlebar: Contains controls for speed, direction, horn, and lights.

Seat: Height-adjustable, 360-degree rotating, with adjustable and liftable armrests.

Front Basket: For carrying personal items.

Rear Basket: Additional storage capacity.

Wheels: Four wheels for stability, suitable for various terrains.

Motor: 350W powerful motor located in the rear.

Battery: 15Ah detachable battery, typically located under the seat or floorboard.

Front Light: For illumination and visibility.

Horn: For alerting others.

Anti-tip Wheels: Located at the rear for stability on inclines.

4. Setup and Assembly

The Eldryvon EV02 is designed for easy assembly and disassembly. Follow these steps to set up your scooter:

1. **Unpacking:** Carefully remove all components from the packaging. Verify all parts are present as listed in the "What you receive" section (Main Body, Seat, 15Ah Battery, Front Basket, Rear Basket, Power Adapter, User Manual and Toolkit, Headlight, 2x Armrests).
2. **Attaching the Seat:** Insert the seat post into the receptacle on the main body. Ensure it clicks securely into place. Adjust seat height as desired.
3. **Installing Armrests:** Attach the armrests to the sides of the seat. They should pivot for easy entry/exit.
4. **Connecting the Battery:** Ensure the 15Ah detachable battery is fully charged (refer to Section 5.1). Insert the battery into its compartment, ensuring a secure connection.
5. **Attaching Baskets:** Secure the front basket to the front tiller and the rear basket to the designated attachment point at the back of the seat.
6. **Handlebar Adjustment:** Adjust the tiller angle for comfortable operation.



Figure 4.1: Easy Disassembly for Transport. This image demonstrates how the scooter can be quickly disassembled into four main parts (tiller, seat, front and rear baskets, and main body) for compact storage and transport, such as in a car trunk.

5. Operating Instructions

5.1. Charging the Battery

The 15Ah battery is detachable for convenient charging. It features power-off protection for safety.

1. Turn off the scooter and remove the battery if charging off-board.
2. Connect the power adapter to the charging port on the battery or scooter.
3. Plug the power adapter into a standard wall outlet.
4. The indicator light on the charger will change (e.g., from red to green) when charging is complete.
5. Disconnect the charger once fully charged.

5.2. Starting and Driving

1. **Power On:** Insert the key into the key switch and turn it to the "ON" position. The power indicator will light up.
2. **Speed Adjustment:** Use the speed control knob on the tiller to set your desired maximum speed (0-7 MPH). Start with a lower speed until you are comfortable.
3. **Forward/Reverse:** Use the left control lever for forward motion and the right control lever for reverse. Gently press the lever to accelerate. Release the lever to brake.
4. **Steering:** Use the handlebars to steer the scooter.
5. **Horn:** Press the horn button to alert pedestrians or other vehicles.
6. **Front Light:** Press the front light button to turn the headlight on or off.
7. **USB Charging:** A USB port is available on the tiller for charging small electronic devices.



Figure 5.1: Scooter in Use. This image shows a senior woman comfortably riding the Eldryvon EV02 scooter outdoors, accompanied by a dog. Icons below illustrate the 24V 15Ah removable battery, 15 miles max range, and 0-7 MPH speed control.

5.3. Adjusting Comfort Features



Figure 5.2: Customizable Comfort. This diagram illustrates the adjustable features of the scooter's seat: three height adjustments, 360-degree rotation, adjustable armrest width, and liftable armrests for easy entry and exit.

- **Seat Height:** Adjust the seat height to ensure your feet can comfortably reach the ground and you have proper posture.
- **Seat Rotation:** The seat rotates 360 degrees to facilitate easy entry and exit. Lift the lever under the seat and rotate to the desired position.
- **Armrests:** The armrests can be adjusted for width and can be lifted up to allow for easier access to the seat.

6. Maintenance

Regular maintenance ensures the longevity and safe operation of your Eldryvon EV02 scooter.

- **Cleaning:** Wipe down the scooter with a damp cloth. Do not use abrasive cleaners or spray water directly onto electrical components.
- **Battery Care:** Charge the battery regularly, even if the scooter is not in frequent use, to maintain battery health. Avoid fully discharging the battery.

- **Tire Inspection:** Periodically check the tires for wear and tear. Ensure they are free of punctures and debris.
- **Fasteners:** Check all nuts, bolts, and fasteners regularly to ensure they are tight.
- **Electrical Connections:** Ensure all electrical connections are secure and free from corrosion.
- **Storage:** When storing for extended periods, ensure the battery is fully charged and store the scooter in a cool, dry place.

7. Troubleshooting

This section addresses common issues you might encounter with your scooter.

Problem	Possible Cause	Solution
Scooter does not power on.	Battery not charged, battery not connected, key not in "ON" position.	Charge the battery. Ensure battery is securely connected. Turn key to "ON".
Scooter moves slowly or lacks power.	Low battery charge, speed setting too low, overloaded.	Recharge battery. Adjust speed knob. Reduce load (ensure within 300 lbs limit).
Brakes are not engaging properly.	Brake mechanism issue, loose connection.	Contact customer support for inspection and repair.
Unusual noises during operation.	Loose parts, motor issue.	Check for loose components. If noise persists, contact customer support.

If you encounter issues not listed here or if solutions do not resolve the problem, please contact Eldryvon customer support.

8. Specifications

Key technical specifications for the Eldryvon EV02 Electric Mobility Scooter:

- **Model:** EV02
- **Motor:** 350W
- **Battery:** 15Ah Detachable
- **Max Speed:** Up to 7 MPH
- **Max Range:** Up to 15 Miles
- **Max Uphill Climb:** 15°
- **Load Capacity:** 300 lbs
- **Product Dimensions:** 43"D x 18.5"W x 38.6"H
- **Item Weight:** 88 Pounds (Scooter only, 97 lbs total with battery and accessories)
- **Manufacturer:** Shenzhen Fumanqian Intelligent Technology Co., Ltd



Figure 8.1: Product Size and Key Performance Metrics. This image provides a visual representation of the scooter's dimensions (38.6in height, 18.1in width, 42.5in length) and states its mobility scooter weight as 97 lbs. It also highlights key performance metrics: Maximum Speed of 7 Mph, Weight Limit of 300 Pounds, and Range of Up to 15 Miles.



Figure 8.2: All-Terrain Capability. This image shows the Eldryvon EV02 scooter being ridden by a senior man on a paved path, with an inset highlighting the wheel and a 15° uphill climb capability. Below are icons representing suitability for Slopes, Speed Bumps, Lawns, and Gravel Roads.



Figure 8.3: 350W Powerful Motor. This image provides a transparent view of the rear section of the scooter, highlighting the internal 350W motor and its placement, emphasizing its power.

9. Warranty and Support

Eldryvon provides comprehensive after-sales support for your EV02 Electric Mobility Scooter:

- **Free Return:** 1-month free return for quality issues.
- **Warranty:** 1-year warranty from the date of purchase.
- **Technical Support:** Lifetime technical support.
- **Customer Service:** 24/7 customer service available.

For any inquiries, technical assistance, or warranty claims, please contact Eldryvon customer support directly. Ensure you have your purchase details and model number (EV02) ready when contacting support.

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Can I buy a new set of wires for my Eldryvon EV02 mobility scooter? I have broken wires that were caught between the handlebar holders, and now the scooter has no power.

Based on the Eldryvon EV02 manual, the wiring for the control panel is integrated into the tiller/handlebar assembly. If these wires have snapped or were damaged by the handlebar adjustment mechanism, a simple tape...

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