Arwibon MT30

Arwibon MT30 Heavy Duty Electric Scooter User Manual

Model: MT30

1. Introduction

This user manual provides essential information for the safe operation, maintenance, and troubleshooting of your Arwibon MT30 Heavy Duty Electric Scooter. Please read this manual thoroughly before operating the scooter to ensure proper use and to prevent damage or injury.

The Arwibon MT30 is designed for robust performance, featuring dual 3000W brushless motors (total 6000W), a 60V 27Ah lithium-ion battery, and 13-inch off-road tires. It is built to handle various terrains and offers a comfortable riding experience with its advanced suspension system.



Figure 1.1: Arwibon MT30 Heavy Duty Electric Scooter. This image shows the scooter from a front-left perspective, highlighting its robust frame, large off-road tires, and the integrated lighting system on the stem.

2. Safety Information

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

- **Wear Protective Gear:** Always wear a helmet, knee pads, elbow pads, and appropriate footwear when riding.
- **Local Regulations:** Familiarize yourself with and obey all local laws and regulations regarding electric scooter use.
- **Pre-Ride Check:** Before each ride, inspect the brakes, tires (for pressure and wear), lights, and ensure all fasteners are secure.
- **Riding Conditions:** Avoid riding in heavy rain, snow, or on icy surfaces. The scooter is designed for off-road use but extreme conditions can compromise safety.
- **Weight Limit:** Do not exceed the maximum load capacity of 440 LBS (200 kg).
- **Age Restriction:** This scooter is intended for adult use.
- **Braking:** Utilize the three-brake system (oil brakes on each tire) smoothly. Avoid sudden braking, especially at high speeds.
- **Visibility:** Use the headlights, tail lights, and ambient lights for enhanced visibility, especially during nighttime or low-light conditions.
- **Charging Safety:** Use only the provided charger. Do not charge unattended. Disconnect the charger once charging is complete.

3. Package Contents

Upon opening the package, verify that all the following items are included:

- 1 x Assembled Electric Scooter (Arwibon MT30)
- 1 x 5A Charger
- 1 x User Manual (this document)
- 1 x Toolkit
- 1 x Moisture-proof bag
- 2 x Brake pads for standby
- 1 x Bag

If any items are missing or damaged, please contact Arwibon customer support immediately.

4. Setup and First Use

4.1 Unfolding the Scooter

The Arwibon MT30 scooter comes largely pre-assembled but will need to be unfolded for use. Carefully release the folding mechanism and raise the stem until it locks securely into place. Ensure all locking pins and levers are fully engaged before riding.



Figure 4.1: The Arwibon MT30 Electric Scooter in its folded configuration. This image illustrates how the scooter compacts for storage or transport, showing the main stem folded down towards the deck.

4.2 Initial Charging

Before your first ride, fully charge the scooter's battery. Locate the charging port, typically on the side of the deck. Connect the 5A charger to the scooter and then to a standard power outlet.

- **Charging Time:** A full charge typically takes 6-8 hours with the single included 5A charger. If using dual chargers (one included, second optional), charging time can be reduced to 2-3 hours.
- **Charging Indicator:** The charger will have an indicator light (e.g., red for charging, green for fully charged).
- **Battery Level:** The display on the handlebars will show the current battery level.

Note: It is recommended to fully charge the battery after each use to prolong its lifespan, especially if the scooter will be stored for an extended period.

5. Operating Instructions

5.1 Controls and Display

The Arwibon MT30 features intuitive controls located on the handlebars and a clear digital display to monitor your ride.



Figure 5.1: Detailed view of the Arwibon MT30's digital display and handlebar controls. This image shows the screen displaying speed, battery level, and mode indicators, along with the various buttons for operation.

- **Power Button:** Typically located near the display. Press and hold to turn the scooter on/off.
- **Throttle:** Located on the right handlebar. Gently press down to accelerate.
- **Brake Levers:** Located on both handlebars. Squeeze to engage the oil brakes.
- **Light Control:** One tap of a designated button (refer to display image) will turn on/off the front and rear lights.
- **Horn:** Press the horn button to alert others.
- **Mode Button:** Press to cycle through riding modes: G1 (power-saving), G2, and FAST-speed mode.
- **Display Information:** Shows current speed (MPH/Km/h), battery level, trip distance, total odometer, and voltage.

5.2 Riding Modes

The Arwibon MT30 offers three distinct riding modes to suit different preferences and terrains:

- **G1 Mode (Power-Saving):** Ideal for beginners or extending battery range. Provides a gentler acceleration and lower top speed.
- **G2 Mode:** A balanced mode offering good performance for general commuting.
- **FAST-Speed Mode:** Unleashes the full power of the dual 6000W motors, allowing for maximum acceleration and a top speed of 40 MPH. Use with caution and only in appropriate environments.

5.3 Braking System

The scooter is equipped with a triple oil brake system, providing rapid and effective stopping power. Each of the three wheels has its own oil brake, ensuring a response time of only 0.1 seconds.

- Apply both brake levers simultaneously for optimal stopping performance.
- Avoid sudden, harsh braking, especially at high speeds or on slippery surfaces, to prevent loss of control.
- The tail lights include braking prompts, illuminating when brakes are applied.

6. Maintenance

Regular maintenance ensures the longevity and safe operation of your Arwibon MT30 scooter.

- **Cleaning:** Wipe the scooter with a damp cloth. Do not use high-pressure water jets or immerse any part of the scooter in water.
- **Tire Pressure:** Regularly check the pressure of the 13-inch off-road tires. Maintain the recommended PSI (refer to tire sidewall for specific values) for optimal performance and safety.
- **Brake Inspection:** Periodically check brake pads for wear and ensure brake levers operate smoothly. Replace brake pads as needed (two standby pads are included).
- **Battery Care:**
  - Charge the battery fully after each use.
  - If storing for an extended period, charge the battery to approximately 50-70% and recharge every 1-2 months.
  - Avoid completely draining the battery.
- **Fasteners:** Check all screws and bolts regularly and tighten them if loose.
- **Suspension:** Inspect the hydraulic shock absorbers and dual high elasticity springs for any signs of damage or excessive wear.

7. Troubleshooting

This section addresses common issues you might encounter with your Arwibon MT30 scooter.

Problem	Possible Cause	Solution
Scooter does not turn on	Low battery; Power button not pressed correctly; Loose connections.	Charge the battery; Press and hold the power button; Check all visible cable connections.
Reduced range or power	Undercharged battery; Old battery; Riding uphill frequently; Low tire pressure.	Ensure full charge; Consider battery replacement if old; Check tire pressure; Ride in G1 mode for efficiency.
Brakes feel weak or noisy	Worn brake pads; Brake cable adjustment needed; Debris in brake system.	Inspect and replace brake pads; Adjust brake cable tension; Clean brake calipers.
Unusual noises during operation	Loose components; Debris in wheels/motors; Worn bearings.	Inspect and tighten all fasteners; Clean wheels and motor areas; Contact support if noise persists.

For issues not listed here or if solutions do not resolve the problem, please contact Arwibon customer support.

8. Technical Specifications

Feature	Specification
Model Name	MT30
Brand	Arwibon
Motor	Dual 3000W Brushless Motors (Total 6000W)
Battery	Lithium-Ion 60V, 27Ah
Max Speed	40 MPH (64 km/h)
Max Range	40 Miles (64 km)
Max Load Capacity	440 LBS (200 kg)
Climb Angle	Up to 60%
Tires	13-inch Off-Road Pneumatic Tires
Brake System	Three Oil Brake System (Front & Rear)
Suspension	Front Hydraulic Shock Absorbers, Rear Dual High Elasticity Springs
Charging Time	6-8 hours (single charger), 2-3 hours (dual chargers)
Vehicle Weight	138.9 LBS (63 kg)
Unfolding Size	53.2 x 50.4 x 28.7 inches (135.1 x 128 x 72.9 cm)
Chassis Height	7.5 inches (19 cm)
Grip Height	39.8 inches (101 cm)
Anti-slip Foot Pedal Size	24.1 x 11.8 inches (61.2 x 30 cm)
Frame Material	Alloy Steel
Special Features	Cruise Control, Dual Charging Port, Foldable, Seat (optional)

9. Warranty and Customer Support

Arwibon provides a limited warranty for the MT30 Electric Scooter.

- **Warranty Period:** The product comes with a 180-day (half a year) after-sales guarantee service from the date of purchase.
- **Coverage:** This warranty covers manufacturing defects and issues arising from normal use. It does not cover damage caused by misuse, accidents, unauthorized modifications, or normal wear and tear.
- **Contact Support:** For any questions, accessory replacements, or warranty claims, please contact Arwibon customer service. We are committed to responding within 24 hours to assist you.
- **Contact Information:** Please refer to the contact details provided on the product packaging or the official Arwibon website.

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