

## aostirmotor A20

# Aostirmotor A20 Folding Electric Bike User Manual

Model: A20 | Brand: Aostirmotor

## 1. INTRODUCTION

This manual provides essential information for the safe operation, assembly, maintenance, and troubleshooting of your Aostirmotor A20 Folding Electric Bike. Please read this manual thoroughly before your first ride and keep it for future reference.

The Aostirmotor A20 is a 500W folding electric bike designed for adults, featuring 20"x4" fat tires, a 36V 13AH removable lithium battery, and Shimano 7-speed gearing. It offers a top speed of up to 25 MPH and is suitable for various terrains.

## 2. SETUP AND ASSEMBLY

Your Aostirmotor A20 electric bike is 95% pre-assembled. The following steps will guide you through the final assembly process.

### 2.1 Unboxing and Initial Inspection

Carefully cut the straps and open the box. Gently remove the bike and all accessories, placing them on a soft surface to prevent damage. Verify all components listed in the packing list are present.

Your browser does not support the video tag.

Video: How to install the A20/G20 Electric Bike? This video demonstrates the unboxing process and initial assembly steps for the Aostirmotor A20 electric bike, including handlebar, display, saddle, front tire, and pedal installation.

### 2.2 Handlebar Installation

Fold the stem up and release the clamp. Remove the screw, washer, and nut. Place the handlebars onto the stem, ensuring they are aligned. Secure the handlebars with the clamp, screw, washer, and nut, then tighten.



Image: Close-up of the handlebar assembly area, showing the stem and clamp mechanism.

### 2.3 Display Installation

Remove the screw from the display clamp. Secure the display onto the handlebar, ensuring it is positioned for easy viewing. Reinsert and tighten the screw to secure the display.



Image: The 866-LCD display showing speed, battery power, mileage, gear, and wattage.

### 2.4 Saddle Installation

Insert the saddle post into the bike frame. Adjust the height to your preference and tighten the quick-release clamp to secure the saddle.

### 2.5 Front Tire Installation

Turn the bike upside down. Remove the protective plastic cover from the disc brake. Loosen the nuts on the front axle. Align the disc brake with the caliper and slide the tire through the forks. Re-tighten the nuts securely to ensure the tire is firmly in place.



Image: Front view of the Aostirmotor A20 electric bike, highlighting the fat tire and front fork.

## 2.6 Pedal Installation

Identify the left (L) and right (R) pedals. The left pedal threads counter-clockwise, and the right pedal threads clockwise. Insert each pedal into its corresponding crank arm and tighten using a size 15 wrench.

## 2.7 Front Fender and Headlight Installation

Remove the bolt and nut from the front fork. Slide the fender through the forks, ensuring the front part is correctly oriented. Feed the bolt through the headlight bracket and then through the fender, securing it with the nut on the opposite side. Tighten with an Allen key, ensuring the fender does not touch the wheel.

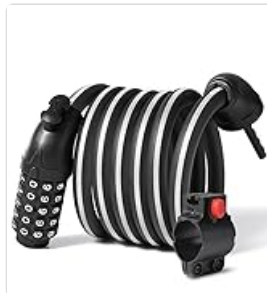


Image: Close-up of the integrated headlight on the front of the Aostirmotor A20 electric bike.

## 2.8 Rear Rack Installation (Optional)

If your model includes a rear rack, attach it to the designated mounting points on the rear frame of the bike. Secure it firmly with the provided screws and tools.

Your browser does not support the video tag.

Video: How to install the A20/G20 rear rack? This video provides a step-by-step guide for installing the rear rack on your Aostirmotor A20 electric bike.

## 2.9 Red Reflector Installation

Attach the red reflector to the back of the saddle post. Adjust the angle to ensure maximum visibility and tighten the clamp securely.

# 3. OPERATING YOUR ELECTRIC BIKE

### 3.1 Battery Charging

The 36V 13AH removable lithium battery can be charged on or off the bike. Connect the 110-220V charger to the battery charging port. A full charge takes approximately 4-6 hours. Recharge regularly to extend battery life.



Image: The 36V 13AH removable lithium battery, highlighting its waterproof design and convenient charging.

### 3.2 Riding Modes

Your Aostirmotor A20 offers three riding modes:

- **Pedal Assist:** The motor provides assistance as you pedal. Offers 28+ miles range.
- **Pure Electric (Throttle):** Use the throttle for fully electric propulsion. Offers 18+ miles range.
- **Normal Bike:** Ride without any electric assistance.

*Note: Range varies based on road conditions, weather, and rider weight.*

### 3.3 LCD Display Functions

The 866-LCD display provides real-time information. You can set the wheel diameter, speed, backlight, mileage unit, and PAS (Pedal Assist System) gear. The screen displays battery power, current speed, mileage, selected gear, and wattage.

### 3.4 Folding Mechanism

The bike features a foldable design, reducing its size by over half for easy storage and transport. The folded size is approximately 35.4 x 27.6 inches.



Image: The Aostirmotor A20 electric bike in its folded configuration, demonstrating its compact size for transport in a car trunk, elevator, or public transport.

## 4. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your electric bike.

### 4.1 General Care

- Keep the bike clean, especially after riding in wet or muddy conditions.
- Regularly check and tighten all bolts and fasteners.
- Inspect tires for wear and proper inflation. The recommended tire pressure is typically found on the tire sidewall (e.g., max 20psi for 20x4.0 fat tires).
- Lubricate the chain and other moving parts as needed.

### 4.2 Battery Care

- Recharge the battery regularly, even if not in frequent use, to extend its lifespan.
- Avoid fully discharging the battery.
- Store the battery in a cool, dry place away from direct sunlight and extreme temperatures.

## 5. TROUBLESHOOTING

If you encounter issues with your Aostirmotor A20, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Bike not powering on	Low battery, loose battery connection, power switch off	Charge battery, check battery connection, ensure power switch is on
Motor not assisting	PAS level too low, throttle issue, motor connection issue	Increase PAS level on display, check throttle cable, inspect motor connections
Display error codes (e.g., E-21)	Controller malfunction, sensor issue	Refer to the full user guide for specific error codes or contact customer support.
Tires not inflating	Valve issue, puncture, pump malfunction	Check valve stem, inspect for punctures, ensure pump is working correctly.

For more detailed troubleshooting or if the issue persists, please contact Aostirmotor customer support.

## 6. SPECIFICATIONS

Feature	Detail
---------	--------

Feature	Detail
Bike Type	Folding Electric Bike
Motor	500W brushless motor (Peak 550W)
Max Speed	Up to 25 mph
Battery	36V 13AH Removable Lithium Battery
Charging Time	4-6 Hours
Tires	20"x4.0" Fat Tire
Gears	Shimano 7 Speed
Frame Material	Aluminum
Display	866-LCD Digital Display
Folded Size	35.4 x 27.6 inches
Item Weight	64 Pounds
Max Weight Recommendation	260 Pounds
Recommended Height	5.2-6.3 FT

## 7. WARRANTY AND SUPPORT

All Aostirmotor E-bikes come with a 365-day warranty covering the battery, motor, controller, display, and other non-wearing parts. Lifetime technical support is also provided.

For any issues or inquiries, you can contact Aostirmotor directly through your order details or via email. Customer support typically responds within 24 hours.

For assembly assistance, refer to the installation videos available on the product page. For return policy details, please download the terms from the product pages.