

## ENGWE

# ENGWE M20 2.0 Moped Style Electric Bike User Manual

Model: M20 2.0 | Brand: ENGWE

## 1. IMPORTANT SAFETY INFORMATION

Before operating your ENGWE M20 2.0 electric bike, please read this manual thoroughly. Adhering to safety guidelines is crucial for your well-being and the longevity of the product. Always wear a helmet and appropriate safety gear. Be aware of local traffic laws and regulations regarding electric bicycles.

- Always perform a pre-ride inspection, checking brakes, tires, and all fasteners.
- Do not operate the bike under the influence of alcohol or drugs.
- Avoid riding in extreme weather conditions or on excessively slippery surfaces.
- Ensure the battery is properly secured before each ride.
- Familiarize yourself with the controls and braking system before riding at higher speeds.

## 2. PACKAGE CONTENTS

Upon unboxing your ENGWE M20 2.0, verify that all components are present and undamaged. The package should include:

- ENGWE M20 2.0 Electric Bike Frame (partially assembled)
- Front Wheel
- Dual Headlight Assembly
- Pedals (Left and Right)
- Front Fender
- Battery Charger (58.8V 3A)
- User Manual
- Tool Kit (including wrenches, Allen keys, zip ties, extra brake pads, and fuse)
- Removable Lithium-ion Battery (52V 15.6AH or 2x 52V 15.6AH for dual battery version)

## 3. SETUP AND ASSEMBLY

The ENGWE M20 2.0 comes partially assembled. Follow these steps to complete the assembly:

### 3.1. Unboxing and Initial Inspection

Carefully open the packaging and remove all components. Inspect for any visible damage during transit. Keep all packaging materials until assembly is complete and the bike is confirmed to be in working order.

### 3.2. Handlebar Attachment

Locate the handlebar and the bracket on the front fork. Remove the four bolts from the bracket. Position the handlebar with the gear shifter on your right-hand side. Reattach the handlebar using the same bracket and bolts, tightening them securely with the provided Allen key.

### 3.3. Front Wheel Installation

Before installing the front wheel, remove one nut, one washer, and one locking washer from one side of the axle. Also, remove the black plastic fork protector from the bottom of the fork. Carefully align the disc brake rotor with the caliper slot on the fork. Insert the axle through the wheel hub and the fork dropouts. Ensure the small piece of the locking washer aligns with the hole on the fork dropout. Reattach the washer and nut, tightening them evenly on both sides using the 15mm wrench provided.



Image: ENGWE M20 2.0 Electric Bike with front wheel installed, showcasing the fat tires and dual headlights.

### 3.4. Front Fender Installation

Attach the front fender to the front fork. Remove the bolts from the designated mounting points on the fork. Position the fender and reattach the bolts, securing it firmly.

### 3.5. Headlight Attachment

The dual headlight assembly needs to be attached to the front fork. Remove the screws/bolts from the headlight bracket. Position the headlight assembly onto the fork, aligning the mounting holes. Reattach the screws/bolts from both sides. Connect the headlight wires to the corresponding connectors on the bike's wiring harness. You can adjust the angle of the headlights for optimal illumination.

### 3.6. Pedal Installation

Identify the left (L) and right (R) pedals. The pedals are marked with 'L' or 'R' on their side. Screw the pedals into the crank arms. Remember that the left pedal is reverse-threaded. Use the provided wrench to tighten them securely.

### 3.7. Battery Installation and Initial Charge

Insert the battery into its designated slot on the bike frame. Ensure it clicks securely into place. Use the provided key to lock the battery. Before your first ride, fully charge the battery until the green light on the charger block indicates a full charge. It is recommended to fully charge the battery for the first five charging cycles to optimize battery life.

Your browser does not support the video tag.

*Video: Official ENGWE video demonstrating the features of the Upgraded M20 2.0 Moped Style Electric Bike for Adults.*

## 4. OPERATING INSTRUCTIONS

### 4.1. Powering On/Off

To power on the bike, ensure the battery switch is in the 'ON' position. Then, press and hold the power button on the handlebar display until the screen illuminates. To power off, press and hold the same button until the display turns off.

### 4.2. Display Functions

The colorful intelligent LCD display provides real-time riding data, including current speed (MPH), battery level, distance traveled (odometer/trip), and pedal assist (PAS) level. Use the '+' and '-' buttons to adjust the PAS level.

### 4.3. Riding Modes

The ENGWE M20 2.0 offers multiple riding modes:

- **Pedal Assist (PAS) Mode:** Provides electric assistance as you pedal. The level of assistance can be adjusted via the display. The bike can last up to 162 miles in PAS mode with dual batteries.
- **Throttle Mode:** Allows you to ride without pedaling by twisting the throttle. The maximum speed in throttle mode is 20 MPH. With dual batteries, the bike can last up to 63 miles in throttle mode.

### 4.4. Gear Shifting

The bike is equipped with a 7-speed Shimano Tourney derailleur. Use the shifter on the right handlebar to change gears according to terrain and desired speed. Shift smoothly to avoid damaging the chain or derailleur.

### 4.5. Headlight and Taillight Operation

The dual headlights and bright taillights enhance visibility. Use the dedicated button on the handlebar to turn the lights on or off. The taillight also functions as a brake light, illuminating brighter when brakes are applied.

### 4.6. Braking System

The ENGWE M20 2.0 features 203MM hydraulic disc brakes for strong and reliable stopping power. Apply both front and rear brakes simultaneously for optimal braking performance. Hydraulic disc brakes offer sensitive and stable braking even in extreme weather conditions.



Image: Close-up of the 203MM hydraulic disc brakes on the ENGWE M20 2.0 Electric Bike.

## 5. MAINTENANCE

Regular maintenance ensures the safety and longevity of your electric bike.

- **Cleaning:** Regularly clean your bike with a damp cloth. Avoid high-pressure washing directly on electrical components.
- **Tire Pressure:** Check tire pressure before each ride. The 20\*4.0" fat tires require specific pressure for optimal performance across various terrains (city, snow, beaches, mountains).
- **Brakes:** Periodically inspect brake pads for wear and ensure proper brake lever tension. Adjust as needed or consult a professional bike mechanic.
- **Chain:** Keep the chain clean and lubricated to ensure smooth gear changes and prevent rust.

- **Fasteners:** Regularly check all bolts and nuts for tightness. Use a torque wrench to ensure they are tightened to the manufacturer's specifications. Over-tightening or under-tightening can lead to damage or safety hazards.
- **Battery Care:** Always charge the battery fully after each ride. Never leave the battery completely empty for extended periods, as this can damage the battery cells. Store the battery in a cool, dry place.

## 6. TROUBLESHOOTING

If you encounter issues with your ENGWE M20 2.0, refer to the following common troubleshooting tips:

- **Bike Not Powering On:** Check if the battery is fully charged and properly seated. Ensure the battery's power switch is in the 'ON' position.
- **Motor Not Assisting:** Verify the PAS level on the display is not set to '0'. Check all electrical connections for looseness.
- **Brakes Squealing/Ineffective:** Inspect brake pads for wear or contamination. Ensure the brake calipers are properly aligned with the rotors.
- **Gears Not Shifting Smoothly:** Check for proper chain lubrication. Inspect the derailleur for alignment or damage.

For persistent issues, consult the detailed user manual or contact ENGWE customer support.

## 7. SPECIFICATIONS



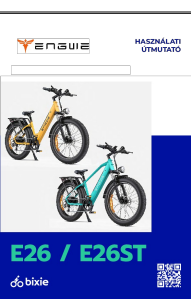

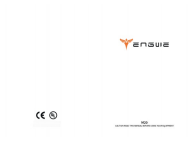
Key specifications for the ENGWE M20 2.0 Moped Style Electric Bike:

Feature	Specification
Bike Type	Electric Bike, Mountain Bike
Motor	750W Brushless Rear Hub Motor (1200W Peak), 75Nm Torque
Battery	2*52V 15.6AH (832Wh*2) Lithium-ion (Dual Battery Version)
Max Speed	28 MPH (Pedal Assist), 20 MPH (Throttle)
Max Range	Up to 162 Miles (PAS Mode), Up to 63 Miles (Throttle Mode)
Wheel Size	20 Inches
Tires	20*4.0" Fat Tires (Chao Yang Hippo Skin+)
Brakes	203MM Hydraulic Disc Brakes
Suspension	Dual Suspension (Front 50mm, Hydraulic 40mm Rear Shock)
Number of Speeds	7 (Shimano Tourney Derailleur)
Frame Material	Iron
Max Weight Recommendation	264 Pounds
Special Features	Digital Display, Multi-Speed, Dual Suspension, Dual Headlights, Taillight

## 8. WARRANTY AND SUPPORT

The ENGWE M20 2.0 Electric Bike comes with a 1-Year Manufacturer Warranty. For any questions or support needs, please feel free to contact ENGWE customer service. They aim to reply within 24 hours and resolve issues as soon as possible.

Related Documents -

	<p><a href="#">Engwe M20 2.0 Electric Mountain Bike User Manual</a></p> <p>Comprehensive user manual for the Engwe M20 2.0 electric mountain bike, detailing its 750W motor, dual battery capability, 20-inch fat tires, operation, maintenance, and safety features. Includes specifications and troubleshooting.</p>
	<p><a href="#">Engwe M20 Secondary Battery Installation Guide</a></p> <p>Step-by-step instructions for installing a secondary battery on the Engwe M20 electric bike, including required parts, tools, and detailed procedures.</p>
	<p><a href="#">Engwe E26 / E26ST Electric Bike User Manual   Assembly, Operation, Maintenance</a></p> <p>Your comprehensive guide to the Engwe E26 and E26ST electric bicycles. Learn about assembly, display functions, safety, battery care, maintenance schedules, troubleshooting, and warranty.</p>
	<p><a href="#">Engwe Engine Pro 2.0 Folding Fat Tire E-bike User Manual</a></p> <p>Comprehensive user manual for the Engwe Engine Pro 2.0 folding fat tire electric bike, detailing specifications, safety, operation, and maintenance for this 52V, 16Ah, 75Nm torque e-bike.</p>
	<p><a href="#">ENGWE X26 Electric Bicycle User Manual - Assembly, Operation, and Maintenance Guide</a></p> <p>Detailed user manual for the ENGWE X26 electric bicycle. Covers essential safety guidelines, step-by-step assembly instructions, operating modes, battery care, maintenance tips, specifications, and troubleshooting for your e-bike.</p>
	<p><a href="#">Engwe M20 Electric Bike User Manual</a></p> <p>User manual for the Engwe M20 electric bike, providing essential safety precautions and operating guidelines.</p>

