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› [ENGWE](#) /

› [ENGWE M20 Electric Bike User Manual](#)

ENGWE M20

ENGWE M20 Electric Bike User Manual

Model: M20

INTRODUCTION

This user manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your ENGWE M20 Electric Bike. Please read this manual thoroughly before your first ride and keep it for future reference. Understanding the features and proper handling procedures will ensure a safe and enjoyable riding experience.



Figure 1: The ENGWE M20 Electric Bike, showcasing its robust frame and fat tires.

Safety Information

Your safety is paramount. Always wear a helmet and appropriate safety gear when riding. Adhere to all local traffic laws and regulations. Perform a pre-ride inspection before each use, checking brakes, tires, and battery level.

- **Helmet Use:** Always wear a certified helmet.
- **Pre-Ride Check:** Inspect tires, brakes, lights, and battery charge before every ride.
- **Weather Conditions:** Exercise caution when riding in wet or slippery conditions.
- **Weight Limit:** Do not exceed the maximum weight recommendation of 264 pounds (120 kg).
- **Age Recommendation:** This electric bike is designed for adults.

PRODUCT OVERVIEW AND FEATURES

The ENGWE M20 is a powerful electric bike designed for various terrains, offering a blend of performance and comfort. Key features include:

- **Powerful Motor:** Equipped with a 48V/750W brushless motor, peaking at 1000W with 55N.m torque, capable of reaching speeds up to 28 mph.
- **Extended Range:** Dual battery version offers a maximum range of up to 94 miles (47 miles per battery in assist mode).
- **All-Terrain Capability:** Features 20x4.0 inch fat tires and full suspension (front hydraulic and rear air shocks) for smooth rides on diverse surfaces.
- **Intelligent LCD Display:** Provides real-time data including power, speed, and mileage.
- **7-Speed Gears:** Shimano 7-speed derailleur for flexible riding conditions.
- **Enhanced Safety:** Dual LED headlights, rear brake lights, and front/rear disc mechanical brakes.
- **Lightweight Frame:** Constructed from lightweight aluminum alloy.

Powerful Hub-Motor

Sustained 750W

1000W

Accelerate swiftly and slope roads with a 750W motor (1000W peak power).

Figure 2: Illustration of the powerful 1000W peak hub motor, designed for swift acceleration and hill climbing.

Never Meet Range Anxiety

Faster charging, more battery capacity

The range is
200%
longer than others.

M20 Electric mode

47 Miles+47 Miles

Other Electric mode

31 Miles

Figure 3: Visual representation of the dual battery system, providing an extended range for longer rides.

A Comfortable Ride Enjoy Miles After Miles



Dual shock systems extending from its front hydraulic shock to the rear air shock. 2times more powerful shock absorbance than normal ebikes.

Figure 4: Diagram highlighting the dual shock systems, including front hydraulic and rear air shocks, for a comfortable riding experience.

Easily Tackle Extreme Terrain

Add further safety, control, and confidence for riders of all experience levels on/off-road in variable traction conditions.



Figure 5: The ENGWE M20 electric bike shown navigating different environments, demonstrating its versatility across various terrains.



Figure 6: A summary of the ENGWE M20's key features, including 1000W peak power, 28 MPH max speed, dual suspensions, 94 miles max range, 20x4.0 inch tires, and 48V 26Ah dual batteries.

SETUP

Assembly

The ENGWE M20 comes 90% pre-assembled. Follow these steps for final assembly:

1. Carefully remove the bike from its packaging.
2. Attach the front wheel, ensuring the quick-release skewer is properly secured.
3. Install the handlebars, adjusting them to a comfortable riding position.
4. Attach the pedals, noting that the left and right pedals are distinct (usually marked L and R).
5. Adjust the seat height for optimal comfort and pedaling efficiency.
6. Perform a thorough check of all bolts and connections to ensure they are tightened securely.

Initial Battery Charge

Before your first ride, fully charge the battery. Connect the charger to the bike's charging port and then to a power outlet. The indicator light on the charger will change when charging is complete.

OPERATING INSTRUCTIONS

Powering On/Off

Press and hold the power button on the intelligent LCD display to turn the bike on or off.

Riding Modes

The ENGWE M20 offers multiple riding modes:

- **Pedal Assist Mode (PAS):** The motor provides assistance as you pedal. Adjust the assist level using the controls on the handlebar.
- **Pure Electric Mode:** Use the throttle to propel the bike without pedaling.
- **Manual Mode:** Ride the bike like a traditional bicycle without motor assistance.

LCD Display Functions

The intelligent LCD display shows real-time information:

- Current Speed
- Battery Level
- Mileage (Odometer/Trip)
- Pedal Assist Level
- Headlight Status

7-Speed Gears

Gearing is provided by a SHIMANO 7-speed derailleurs which delivers reliable and accurate gear shifting, you bike has a drivetrain with quality components



Figure 7: Close-up of the intelligent LCD display, providing clear real-time riding data.

Gear Shifting

The bike is equipped with a Shimano 7-speed derailleurs. Use the twist grip shifter on the handlebar to change gears according to terrain and desired speed.

Dual Front Lights

Unique dual headlight design can light up the road for you at night, and alert passers-by and oncoming traffic,ensure the safety of cyclists riding at night



Figure 8: The Shimano 7-speed gear shifter, allowing for smooth and accurate gear changes.

MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your ENGWE M20 Electric Bike.

- **Battery Care:**
 - Charge the battery regularly, even if not in use, to maintain its health.
 - Avoid completely draining the battery.
 - Store the battery in a cool, dry place.
- **Tire Pressure:** Check tire pressure before each ride. Maintain recommended PSI for optimal performance and safety. The 20x4.0 inch fat tires require specific pressure.
- **Brakes:** Regularly inspect brake pads for wear and ensure proper brake lever tension. The dual disc mechanical brakes should provide smooth stopping power.
- **Cleaning:** Clean the bike with a damp cloth. Avoid high-pressure washing directly on electrical components.
- **Lubrication:** Lubricate the chain and other moving parts periodically.
- **Fasteners:** Periodically check and tighten all bolts and nuts, especially after the first few rides.

Taillight Replacement Guide

This video demonstrates the process of replacing the taillight on your ENGWE M20 Electric Bike.

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Video 1: Instructions on how to replace the taillight of the ENGWE M20 electric bike. This video guides you through loosening screws, disconnecting the old taillight cable, installing the new taillight, reconnecting the cable, and testing the new light.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Bike does not power on.	Battery not charged or not properly connected.	Ensure battery is fully charged and securely seated. Check all electrical connections.
Motor not assisting.	Pedal assist level too low, throttle not engaged, or sensor issue.	Increase pedal assist level. Ensure throttle is fully engaged. Check for any loose sensor cables.

Problem	Possible Cause	Solution
Brakes feel weak.	Worn brake pads or loose brake cable.	Inspect brake pads and replace if worn. Adjust brake cable tension. Consult a professional if unsure.
Unusual noises during riding.	Loose components, dry chain, or tire rubbing.	Check all fasteners. Lubricate the chain. Inspect tires for rubbing against the frame or fenders.

SPECIFICATIONS

Detailed technical specifications for the ENGWE M20 Electric Bike:

Specification	Detail
Bike Type	Electric Bike
Model Name	ENGWE M20
Motor	48V/750W Brushless (1000W Peak)
Max Speed	28 mph
Torque	55N.m
Battery	48V 26Ah (Dual Battery version)
Max Range	Up to 94 miles (assist mode)
Wheel Size	20 Inches (4.0" Fat Tires)
Frame Material	Aluminum Alloy
Suspension Type	Dual (Front Hydraulic, Rear Air Shocks)
Number of Speeds	7
Brake Style	Disc (Front & Rear Mechanical)
Item Weight	41.5 Kilograms (approx. 91.5 lbs)
Maximum Weight Recommendation	264 Pounds (120 kg)
Included Components	Kickstand, Mudguard, Tool Kit
Certifications	UL 2849 Certified/GCC/GCC-CPSC-16CFR1512

Dimension Reference

Easy to hop on & off accessible to all riders.



Load capacity
330lbs



Rider height
5.2(ft) - 6.8(ft)

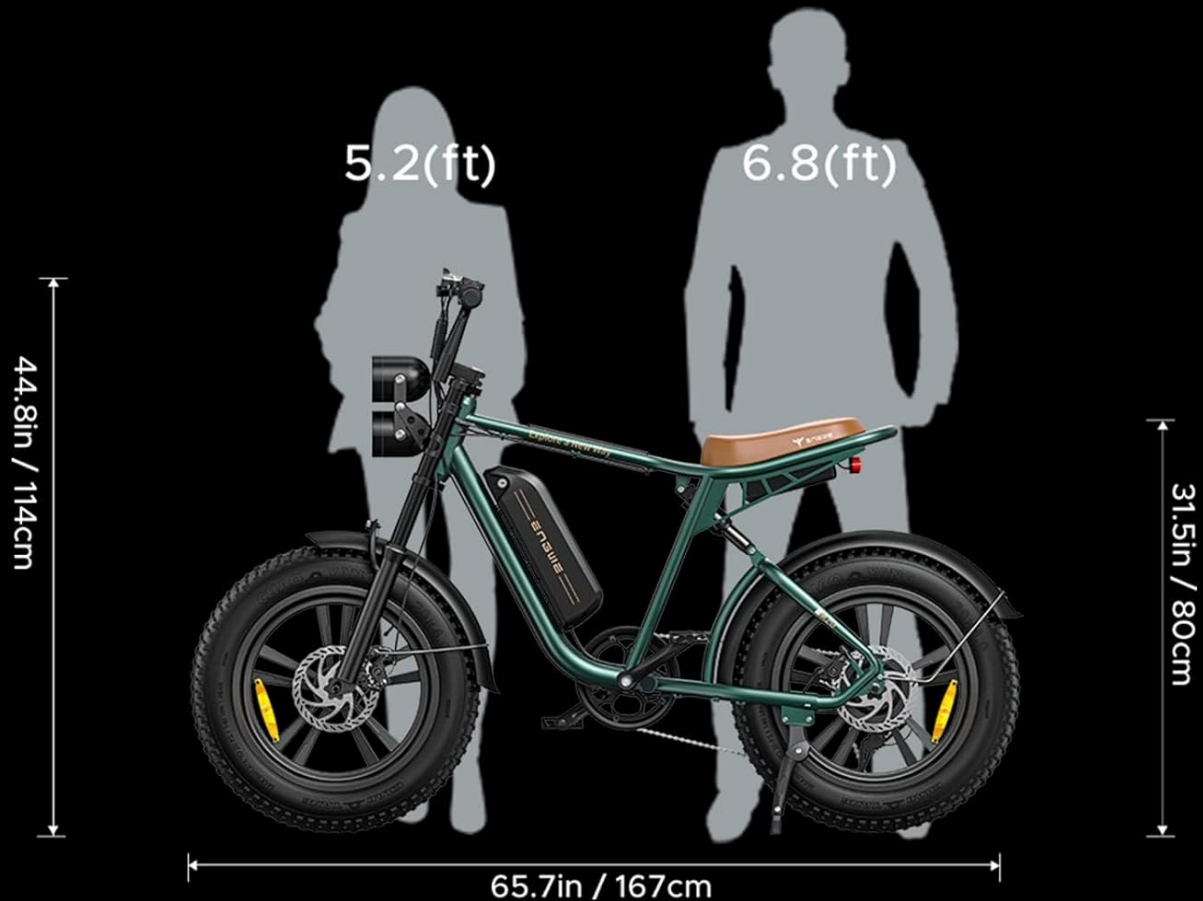





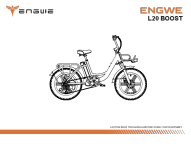

Figure 9: Dimension reference for the ENGWE M20 electric bike, including height, length, and recommended rider height range.

WARRANTY AND SUPPORT

The ENGWE M20 Electric Bike comes with a comprehensive warranty and dedicated customer support.

- **Warranty:** A one-year warranty is provided on motors, batteries, and controllers. The manufacturer warranty is 2 years.
- **Customer Support:** For any assistance, questions, or concerns, please contact the professional customer support team via email. Refer to your purchase documentation for specific contact details.
- **Online Resources:** Visit the official ENGWE store for additional information and resources: [ENGWE Store](#).

Related Documents - M20

	<p>Engwe M20 Secondary Battery Installation Guide</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>Engwe M20 2.0 Electric Mountain Bike User Manual</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>ENGWE X26 Electric Bicycle User Manual - Assembly, Operation, and Maintenance Guide</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>Engwe X24 Electric Bike User Manual: Assembly, Operation, Maintenance, and Warranty</p> <p>Comprehensive user manual for the Engwe X24 electric bike, covering assembly instructions, display guide, riding tips, safety warnings, maintenance schedule, troubleshooting, and limited warranty information.</p>
	<p>ENGWE L20 Boost E-Bike User Manual and Installation Guide</p> <p>Comprehensive user manual and installation guide for the ENGWE L20 Boost electric bicycle, covering safety guidelines, product components, technical specifications, assembly instructions, display functions, battery care, charging, and warranty policy.</p>
	<p>Engwe X20 Electric Bike User Manual and Assembly Guide</p> <p>Comprehensive guide for the Engwe X20 electric bike, covering assembly, display functions, riding tips, safety precautions, maintenance, troubleshooting, and warranty information.</p>