

## ENGWE L20 BOOST

# ENGWE L20 BOOST Electric Bike Instruction Manual

Model: L20 BOOST

## 1. IMPORTANT SAFETY INFORMATION

Read this manual thoroughly before operating the ENGWE L20 BOOST Electric Bike. Failure to follow instructions can result in serious injury or property damage.

- Always wear a helmet and appropriate safety gear when riding.
- Obey all local traffic laws and regulations.
- Do not ride under the influence of alcohol or drugs.
- Ensure the battery is fully charged and securely installed before each ride.
- Regularly check tire pressure, brakes, and all fasteners.
- Avoid riding in adverse weather conditions (heavy rain, snow, ice).
- Do not exceed the maximum weight capacity of the bike.

## 2. PACKAGE CONTENTS

Verify all items are present upon unboxing:

- ENGWE L20 BOOST Electric Bike (partially assembled)
- Battery (48V 13Ah)
- Battery Charger
- User Manual (this document)
- Assembly Tools
- Kickstand
- Additional spare bolts and brake pads



Image: The ENGWE L20 BOOST Electric Bike, showcasing its overall design and components.

### 3. SETUP AND ASSEMBLY

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The ENGWE L20 BOOST Electric Bike comes 85% pre-assembled. Follow these steps for final assembly:

1. **Unboxing:** Carefully remove the bike and all components from the packaging.
2. **Handlebar Installation:** Attach the handlebars to the stem, ensuring they are centered and tightened securely.
3. **Pedal Installation:** Identify left (L) and right (R) pedals. Thread them into the crank arms. Note that the left pedal is reverse-threaded. Tighten firmly with a wrench.
4. **Front Wheel Installation (if not pre-installed):** Secure the front wheel into the fork dropouts. Ensure the disc brake rotor is correctly aligned with the caliper.
5. **Seat Post and Saddle Adjustment:** Insert the seat post into the frame and adjust the saddle height for comfortable riding. Ensure the quick-release lever is securely closed.
6. **Battery Installation:** Insert the battery into its compartment and ensure it clicks securely into place.

7. **Pre-Ride Checks:** Before your first ride, perform a thorough check of all bolts, nuts, and quick releases to ensure they are tight. Check tire pressure and brake function.



**Colorful Display**



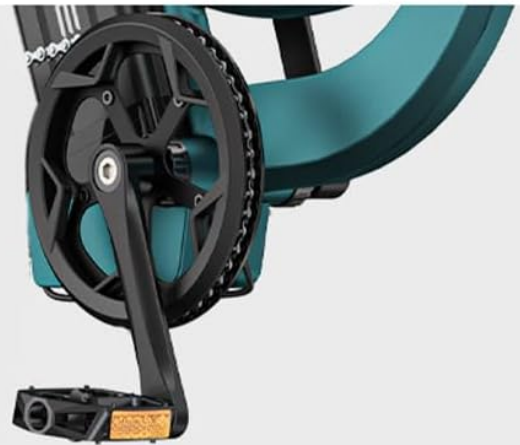
Range Up to  
**126 KM**  
in PAS Mode



**75Nm**  
**Power-Boost Button**



**20×4.0**  
Inch Fat Tires



**Torque Sensor**



**SHIMANO 7-Speed**



**250W**  
EU Standard Output

Image: Overview of key components and features, useful for identifying parts during assembly.

## 4. OPERATING INSTRUCTIONS

### 4.1. Charging the Battery

To charge the 48V 13Ah removable battery:

- Connect the charger to the charging port on the battery or directly to the bike if the battery is installed.
- Plug the charger into a standard wall outlet.
- The indicator light on the charger will show charging status (e.g., red for charging, green for fully charged).

- A full charge takes approximately 6.5 hours.
- Do not overcharge the battery. Disconnect the charger once charging is complete.

## 4.2. Powering On/Off and Display

The bike features a clear LCD display:

- **Power On:** Press and hold the power button on the display unit.
- **Power Off:** Press and hold the power button again.
- The display shows speed, battery level, pedal assist level, and other ride data. Refer to the display's specific manual for detailed functions.

**75Nm Power-Boost Button**

**250W**



Image: Detailed view of the motor and power-boost button mechanism.

#### **4.3. Riding Modes and Boost Function**

The ENGWE L20 BOOST offers various riding modes:

- **Pedal Assist System (PAS):** The intelligent torque sensor automatically adjusts motor assistance based on your pedaling force. Use the controls on the handlebar to select different PAS levels (e.g., 1-5).
- **Throttle Mode (if applicable):** Some models may include a twist grip throttle for pure electric power without pedaling. Use responsibly.
- **BOOST Function:** Press the dedicated BOOST button for a spontaneous power boost, ideal for inclines or quick acceleration. This provides 75Nm of torque.



# Effortless Power for Every Ride

Conquer hills and start smoothly  
with the power-boost button.



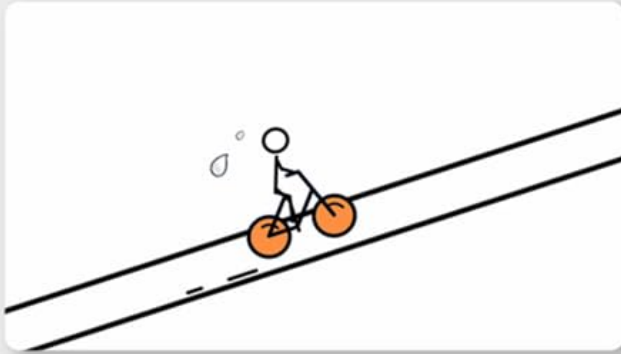
## 75Nm Boost Button

(Max Power Improved by 50%)

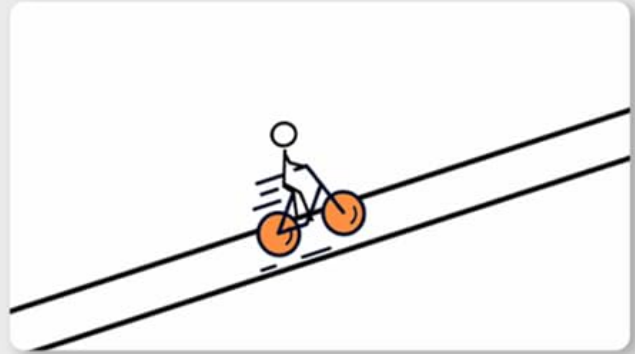


Image: Demonstrates the bike's ability to handle inclines with the boost function.

# Feel the Boost By Touching the Button



Biking uphill can make you sweat



Press and Hold for a Boost



Image: Visual explanation of the boost button's effect on uphill riding.

## 4.4. Gear Shifting

The bike is equipped with a 7-speed Shimano gear system:

- Use the gear shifter on the handlebar to change gears.
- Shift to a lower gear for easier pedaling on inclines.
- Shift to a higher gear for faster speeds on flat terrain.
- Always pedal lightly when shifting gears to ensure smooth transitions and prevent damage to the drivetrain.





Image: Detail of the gear shifter for speed control.

## 4.5. Braking

The ENGWE L20 BOOST features mechanical disc brakes:

- The left lever controls the front brake, and the right lever controls the rear brake (standard UK configuration).
- Apply both brakes simultaneously for effective and safe stopping.
- Avoid sudden, hard braking, especially with the front brake, as this can lead to loss of control.
- Brake performance may be reduced in wet conditions.



ENGWE L20 Boost

ENGWE L20

Gazelle Medeo  
T9 City

Price	€1099-€1299	€999	€2499
sensor	Torque sensor	Speed sensor	Torque sensor
Boost button	✓	X	X
Battery capacity	624Wh	624Wh	400Wh
Range (PAS)	126 km	140 km	120 km
Motor	48V 250W	48V 250W	36V 250W

Image: Illustrates the safety features including lights and disc brakes.

## 5. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your e-bike:

- **Cleaning:** Clean the bike regularly with a damp cloth. Avoid high-pressure washing directly on electrical components.
- **Tires:** Check tire pressure before each ride. Recommended pressure is usually indicated on the tire sidewall. Inspect tires for wear and damage.
- **Brakes:** Regularly check brake pads for wear and replace them when necessary. Ensure brake levers are firm and responsive. Adjust brake cables if needed.
- **Chain:** Keep the chain clean and lubricated to ensure smooth shifting and prevent rust.
- **Fasteners:** Periodically check all bolts, nuts, and quick releases for tightness. Loose components can lead to accidents.
- **Battery Care:** Store the battery in a cool, dry place. If storing for extended periods, charge it to about 50-70% and recharge every 2-3 months.
- **Professional Service:** It is recommended to have your e-bike professionally inspected and serviced at least once a year.

## 6. TROUBLESHOOTING

Common issues and their solutions:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Bike not powering on	Battery not charged, battery not properly seated, loose electrical connection.	Charge battery, ensure battery is securely installed, check all visible connections.
Motor not assisting	PAS level too low, battery low, motor connection issue, sensor malfunction.	Increase PAS level, charge battery, check motor cable, consult professional.
Brakes feel weak	Worn brake pads, loose brake cable, air in hydraulic system (if applicable).	Inspect/replace pads, adjust cable tension, seek professional brake service.
Gears not shifting smoothly	Dirty/dry chain, misaligned derailleur, bent hanger.	Clean and lubricate chain, adjust derailleur, consult bike shop for bent hanger.

## 7. SPECIFICATIONS

Key technical specifications for the ENGWE L20 BOOST Electric Bike:

- **Model:** ENGWE L20 BOOST
- **Motor:** 48V/250W Brushless Motor with BOOST function (75Nm torque)
- **Battery:** 48V 13Ah Removable Lithium-ion Battery
- **Range:** Up to 126 km (in PAS mode 1, tested under specific conditions)
- **Charging Time:** Approximately 6.5 hours
- **Tires:** 20" x 4.0" Fat Tires
- **Gears:** Shimano 7-Speed
- **Brakes:** Mechanical Disc Brakes (160mm)
- **Frame Material:** Aluminium Alloy
- **Suspension:** Front Suspension
- **Display:** LCD Display (shows speed, battery, PAS level)
- **Recommended Rider Height:** 55-185 cm (adjustable saddle/handlebars)
- **Included Components:** Kickstand

# Ride with Confidence and Safety

Stay visible and secure with bright lights and reliable disc brakes.



Image: Comparative specifications table for the ENGWE L20 BOOST.

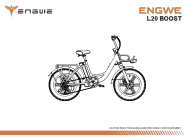
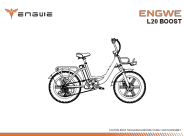
## 8. WARRANTY AND SUPPORT




ENGWE provides comprehensive support for your electric bike:

- **Warranty:** A one-year warranty is provided on the motor, battery, and controller.
- **Customer Service:** Our customer service team is available 24/7 to assist with any questions or concerns.
- For support, please refer to the contact information provided on the official ENGWE website or your purchase documentation.

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### Related Documents - L20 BOOST

	<p><a href="#">ENGWE L20 Boost Electric Bike User Manual and Safety Guide</a></p> <p>This manual provides essential safety guidelines, product details, installation instructions, and operational information for the ENGWE L20 Boost electric bicycle, including display functions, battery care, and warranty.</p>
	<p><a href="#">ENGWE L20 Boost E-Bike User Manual: Safety, Installation, and Operation Guide</a></p> <p>Comprehensive user manual for the ENGWE L20 Boost electric fat tire bike. Covers safety guidelines, product components, technical specifications, step-by-step installation, display functions, battery care, charging, and warranty information.</p>

	<p><a href="#">Engwe X20 Electric Bike User Manual and Assembly Guide</a></p> <p>Comprehensive guide for the Engwe X20 electric bike, covering assembly, display functions, riding tips, safety precautions, maintenance, troubleshooting, and warranty information.</p>
	<p><a href="#">ENGWE L20 Electric Bike User Manual &amp; Guide</a></p> <p>Comprehensive user manual for the ENGWE L20 electric bike, covering safety warnings, components, technical specifications, installation, display functions, battery care, charging, and warranty information.</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 EP-2 Boost Electric Bike Owner's Manual and Guide</a></p> <p>Comprehensive guide for the ENGWE EP-2 Boost electric bike, covering safety, installation, operation, maintenance, troubleshooting, and warranty information.</p>