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› [ENGWE](#) /

› [ENGWE L20 BOOST Electric Bike Instruction Manual](#)

## 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

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



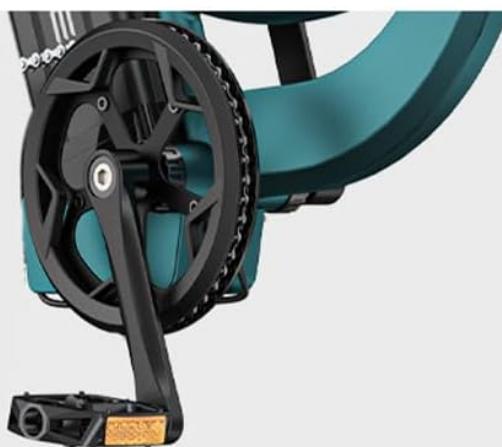
**75Nm**  
Power-Boost Button



### SHIMANO 7-Speed



**20x4.0**  
Inch Fat Tires



### Torque Sensor



**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.

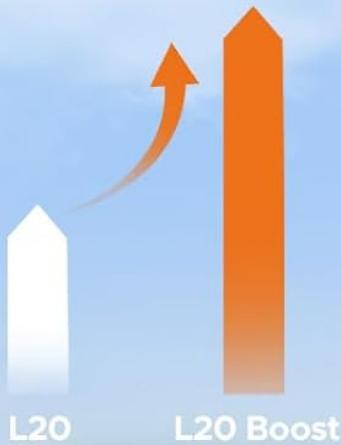
#### 4.3. Riding Modes and Boost Function

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.



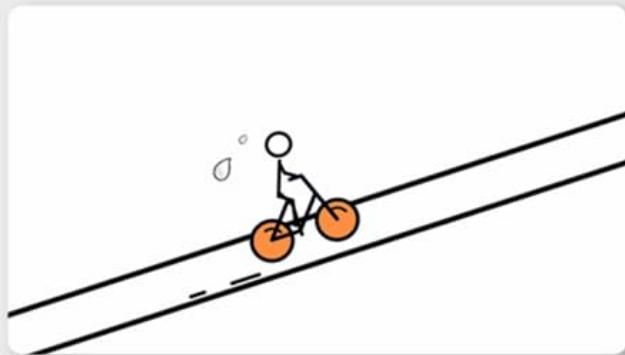
## 75Nm Boost Button

(Max Power Improved by 50%)

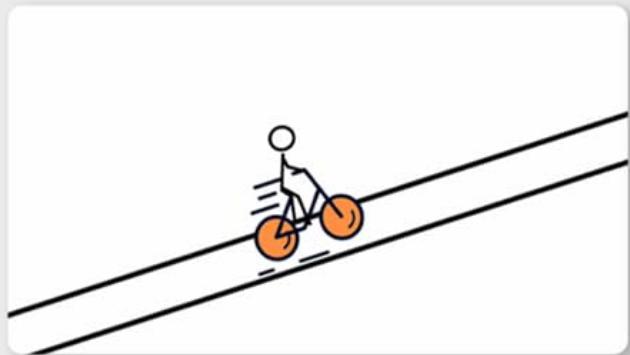


Image: Demonstrates the bike's ability to handle inclines with the boost function.

# Feel the Boost By Touching the Button



Biking uphill can make you sweat



Press and Hold for a Boost

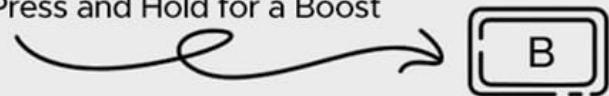


Image: Visual explanation of the boost button's effect on uphill riding.

## 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.

|                  |  |  |  |
|------------------|---|---|---|
|                  | <b>ENGWE L20 Boost</b>  | <b>ENGWE L20</b>  | <b>Gazelle Medeo T9 City</b>  |
| 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 |
|---------|----------------|----------|
|         |                |          |

| 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

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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.



Front light



rear and  
brake lights



160mm mechanical  
disc brakes

Image: Comparative specifications table for the ENGWE L20 BOOST.

## 8. WARRANTY AND SUPPORT

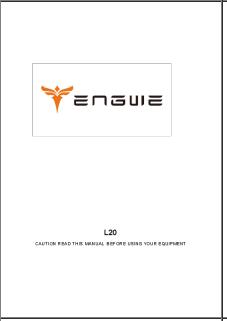
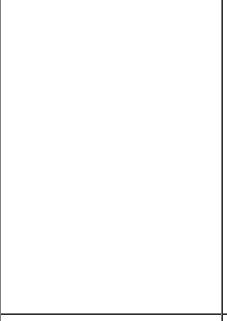
ENGWE provides comprehensive support for your electric bike:

- 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

|  |   |
|--|---|
| <br> | <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>   |
| <br> | <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="#"><b>Engwe X20 Electric Bike User Manual and Assembly Guide</b></a><br/> 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="#"><b>ENGWE L20 Electric Bike User Manual &amp; Guide</b></a><br/> 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="#"><b>ENGWE X26 Electric Bicycle User Manual - Assembly, Operation, and Maintenance Guide</b></a><br/> 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="#"><b>ENGWE EP-2 Boost Electric Bike Owner's Manual and Guide</b></a><br/> Comprehensive guide for the ENGWE EP-2 Boost electric bike, covering safety, installation, operation, maintenance, troubleshooting, and warranty information.</p>  |