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ENGWE E26

ENGWE E26 Electric Bike User Manual

Comprehensive Guide for Operation, Maintenance, and Troubleshooting

1. INTRODUCTION AND PRODUCT OVERVIEW

The ENGWE E26 Electric Bike is designed for adults seeking a powerful and versatile e-bike experience. Featuring a 1000W peak motor, 26" x 4.0" fat tires, and a 48V 16Ah removable lithium-ion battery, it offers an impressive range and speed suitable for commuting, mountain trails, and various terrains. This manual provides essential information for safe assembly, operation, maintenance, and troubleshooting to ensure optimal performance and longevity of your ENGWE E26.



Figure 1.1: ENGWE E26 Electric Bike (Bumblebee Yellow Step-thru model)

2. SAFETY INFORMATION

Always prioritize safety when operating your electric bike. Read and understand all warnings and instructions before your first ride.

- Always wear a helmet and appropriate safety gear.
- Familiarize yourself with local e-bike regulations and laws.
- Perform a pre-ride inspection before each use, checking brakes, tires, battery, and all connections.
- Do not operate the bike under the influence of alcohol or drugs.
- Be aware of your surroundings and ride defensively.
- Avoid riding in extreme weather conditions or on excessively slippery surfaces.
- Ensure the battery is securely locked in place before riding.

3. PACKAGE CONTENTS

Upon unboxing, verify that all components are present and undamaged:

- ENGWE E26 Electric Bike (partially assembled)
- 48V 16Ah Lithium-Ion Battery
- Battery Charger
- Pedals (left and right)
- Front Headlight and Rear Taillight
- Front and Rear Fenders
- Rear Rack
- Tool Kit
- User Manual (this document)

4. SETUP AND ASSEMBLY

The ENGWE E26 electric bike is delivered approximately 85% pre-assembled. Follow these steps for final assembly. For a visual guide, refer to the official installation video below.

1. **Handlebar Installation:** Secure the handlebar stem to the fork. Ensure it is aligned straight with the front wheel.
2. **Headlights and Fenders Installation:** Attach the front headlight to the fork and secure the front and rear fenders.
3. **Front Wheel Installation:** Carefully install the front wheel, ensuring the brake rotor aligns correctly with the caliper.
4. **Pedals Installation:** Identify the left (L) and right (R) pedals. Thread them into the crank arms. Note that the left pedal threads counter-clockwise.
5. **Rear Saddle and Rear Taillight Installation:** Adjust the saddle height for comfortable riding. Attach the rear taillight to the rear rack.
6. **Battery Installation:** Insert the 48V 16Ah battery into the frame's compartment and secure it.

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Video 4.1: ENGWE E26 Electric Bike Installation Process. This video demonstrates the step-by-step assembly of the ENGWE E26 electric bike, including handlebar, headlight, fender, front wheel, pedal, saddle, and taillight installation.

5. COMPONENTS OVERVIEW

The ENGWE E26 is equipped with high-quality components for a robust and enjoyable ride.

- **Motor:** 750W (peak 1000W) brushless motor, providing strong acceleration and hill-climbing capability.
- **Battery:** 48V 16Ah removable Lithium-Ion battery, offering extended range.
- **Tires:** 26" x 4.0" fat tires for excellent traction and stability across various terrains.
- **Brakes:** Mechanical disc brakes for reliable stopping power.
- **Gears:** 7-speed SHIMANO gears for versatile riding conditions.
- **Suspension:** Dual suspension system (front and seat) to absorb shocks and provide a smoother ride.
- **Display:** Intelligent LCD display showing real-time information.
- **Lights:** Integrated LED headlight and taillight for visibility and safety.
- **Rear Rack:** Robust rear rack capable of holding up to 55 lbs (25kg).

Powerful Hub-Motor with High Torque

70Nm torque, all you need to climb a variety of hills



Figure 5.1: Illustration of the powerful 750W (peak 1000W) hub motor with 70Nm torque.

A GROWING COMMUNITY



Figure 5.2: The intelligent LCD display provides essential riding data and mode selection.



Figure 5.3: Integrated LED headlight and taillight for enhanced visibility.



Figure 5.4: SHIMANO 7-speed derailleuer for reliable gear shifting.



Figure 5.5: The extensive soft seat provides enhanced comfort during rides.

6. OPERATING INSTRUCTIONS

The ENGWE E26 offers multiple riding modes for varied experiences:

- **Electric Mode:** Utilizes only the motor for propulsion. Provides a range of up to 38.5 miles.
- **Assist Mode (Pedal-Assist):** Combines your pedaling effort with motor assistance. Offers an extended range of up to 87 miles. There are 5 different levels of assist.
- **Manual Mode:** Ride the bike like a traditional bicycle without any motor assistance.

The bike can reach a speed of 20 MPH using the throttle, and a boost speed of up to 28 MPH when the speed limit is lifted.



140KM
Per charge



**Dual
Suspensions**



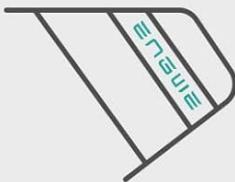
**Hydraulic
Brakes**



**MAX SPEED
25KM/H**



**7-Speed
SHIMANO Gears**



**Robust
Rear Rack**



70Nm Torque
250W Motor



Colorful LCD Display

Figure 6.1: Overview of key features including range, suspension, brakes, speed, and gears.

Ride Beyond the Horizon

The ENGWE E26 portable 16Ah Lithium battery offers you 140KM of assisted range per charge

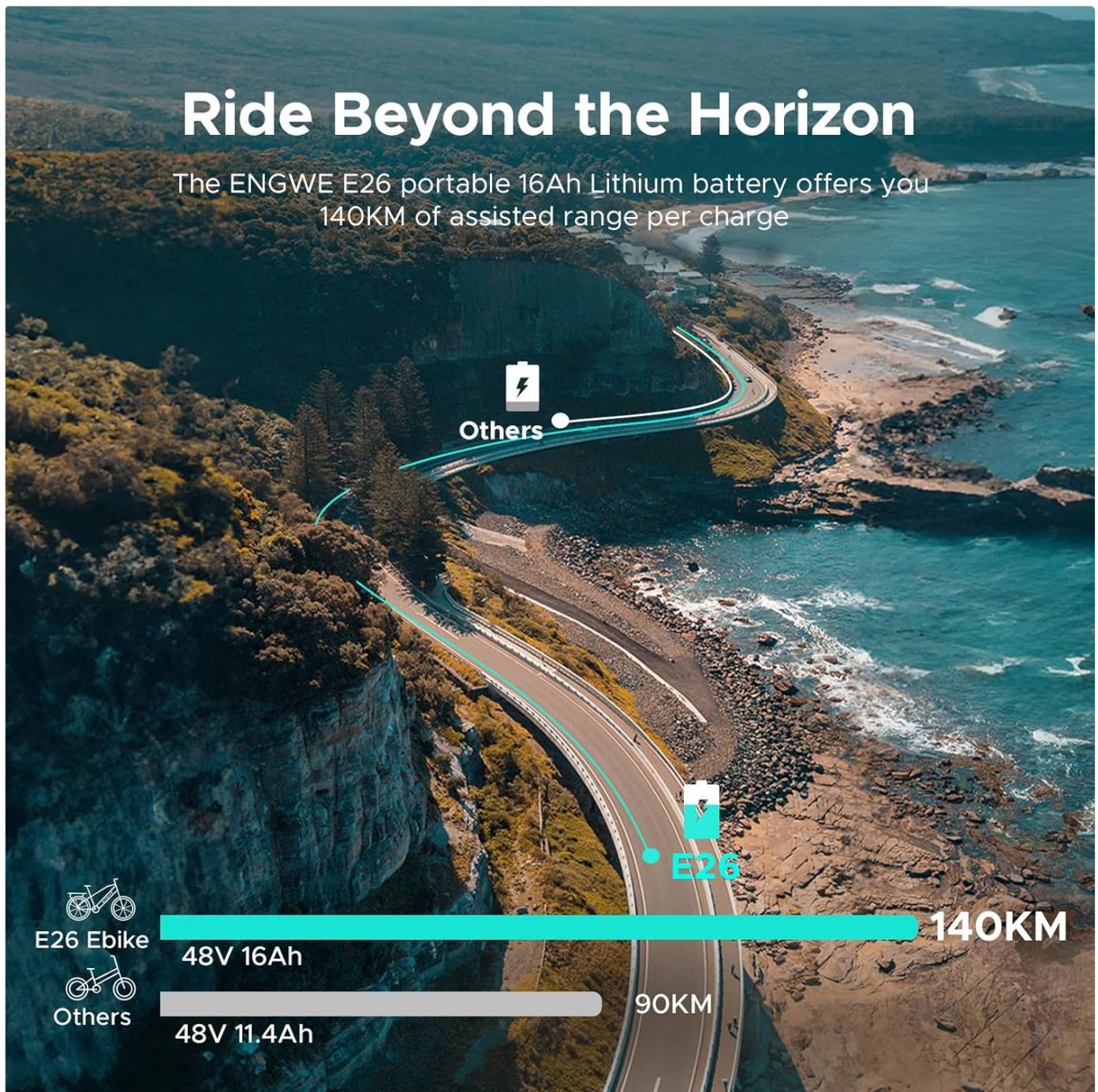


Figure 6.2: Visual representation of the extended range offered by the ENGWE E26 battery.

7. BATTERY INFORMATION

The ENGWE E26 is powered by a 48V 16Ah removable lithium-ion battery. Proper care ensures optimal performance and lifespan.

- Charging:** Use only the provided charger. Charge the battery in a well-ventilated area, away from flammable materials. Do not overcharge.
- Removal:** The battery can be removed for charging or storage. Ensure the bike is powered off before removal.
- Storage:** If storing the bike for an extended period, charge the battery to 50-70% and store it in a cool, dry place. Recharge every 2-3 months.
- Safety:** Do not expose the battery to extreme temperatures, direct sunlight, or water. Do not attempt to disassemble or modify the battery.

8. MAINTENANCE

Regular maintenance is crucial for the safety and longevity of your ENGWE E26.

- **Tires:** Check tire pressure regularly. The 26" x 4.0" fat tires provide excellent traction; maintain recommended pressure for optimal performance and safety.
- **Brakes:** Inspect brake pads and rotors for wear. Ensure brake levers are responsive and provide adequate stopping power. Adjust as needed.
- **Chain:** Keep the chain clean and lubricated to ensure smooth gear changes and prevent rust.
- **Fasteners:** Periodically check all bolts and nuts for tightness, especially on the handlebars, wheels, and seat post.
- **Cleaning:** Clean the bike with a damp cloth. Avoid high-pressure washing directly on electrical components.

9. TROUBLESHOOTING

This section addresses common issues you might encounter with your ENGWE E26. For specific error codes, refer to the display's error messages.

E25 Brake Fault Code Troubleshooting

The E25 error code on the display indicates a brake fault. Follow these steps to diagnose and resolve the issue:

1. **Check Brake Levers:** Ensure both left and right brake levers are in a reset state (not engaged).
2. **Access Controller Box:** Remove the battery and loosen the screws of the controller box located within the frame.
3. **Inspect Right Brake Lever Plug:** Follow the cable from the right brake lever to the controller. Disconnect the plug and check if any pins are broken. Turn on the display; if E25 disappears, the right brake lever needs replacement. If E25 still appears, reconnect the plug.
4. **Inspect Left Brake Lever Plug:** Follow the cable from the left brake lever to the controller. Disconnect the plug and check if any pins are broken. Turn on the display; if E25 disappears, the left brake lever needs replacement. If E25 still appears, reconnect the plug.
5. **Inspect Taillight Plug:** Disconnect the taillight plug and check if any pins are broken. Turn on the display; if E25 disappears, the taillight needs replacement. If E25 still appears, reconnect the plug.
6. **Controller Issue:** If the E25 error persists after checking all brake lever and taillight connections, the controller may need to be replaced.

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Video 9.1: ENGWE E26-E25 Brake Fault Code Troubleshooting. This video provides a detailed guide on how to troubleshoot the E25 brake fault code on your ENGWE E26 electric bike, including checking brake levers and electrical connections.

10. SPECIFICATIONS

Feature	Specification
Bike Type	Electric Bike
Model Name	E26 (Bumblebee Yellow Step-thru)
Motor	750W (Peak 1000W) Brushless Motor
Battery	48V 16Ah Removable Lithium-Ion Battery
Max Speed	Up to 28 MPH (with speed limit lifted)
Electric Mode Range	Up to 38.5 Miles
Assist Mode Range	Up to 87 Miles
Wheel Size	26 Inches (4.0" Fat Tire)

Feature	Specification
Gears	7-Speed SHIMANO Gears
Frame Material	Aluminum
Suspension Type	Dual (Front and Seat)
Brake Style	Disc
Maximum Weight Recommendation	150 kg (330 lbs)
Minimum User Height	62 Inches
Assembly Required	Yes (85% pre-assembled)
Certifications	UL 2849 Certified/GCC



Figure 10.1: Detailed dimensions of the ENGWE E26 electric bike.

11. WARRANTY AND SUPPORT

ENGWE offers reliable customer service and warranty coverage for your electric bike.

- **Warranty:** A one-year warranty is provided for motors, batteries, and controllers.
- **Customer Service:** The ENGWE customer support team is available 24/7 to assist with any questions or concerns.
- **Contact:** For support, please refer to the contact information provided on the official ENGWE website or your purchase documentation.

