

Prophete Graveler 22.ETM.30

Prophete Graveler 22.ETM.30 E-MTB Electric Mountain Bike User Manual

1. INTRODUCTION

Welcome to the Prophete Graveler 22.ETM.30 E-MTB. This manual provides essential information for the safe and efficient use of your electric mountain bike. Please read it thoroughly before your first ride and keep it for future reference. Proper understanding of this manual will ensure optimal performance and longevity of your E-MTB.

2. SAFETY INFORMATION

Your safety is paramount. Always adhere to the following guidelines:

- Always wear a certified helmet when riding.
- Perform a pre-ride check: inspect brakes, tire pressure, battery charge, and ensure all quick releases are secure.
- Familiarize yourself with local traffic laws and regulations for electric bicycles.
- Do not modify the electrical system or any components of the E-MTB. Unauthorized modifications can lead to serious injury and void your warranty.
- Keep hands and feet clear of moving parts, especially the chain and gears.
- Ensure the battery is securely locked in place before riding.
- Avoid riding in extreme weather conditions or on terrain beyond your skill level.
- Children should not operate or play with the E-MTB or its charging components.

3. PRODUCT OVERVIEW

The Prophete Graveler 22.ETM.30 is a robust hardtail electric mountain bike designed for off-road excursions. It features a powerful AEG SportDrive system and advanced components for a responsive and controlled riding experience.

Key Features:

- **AEG SportDrive Motor:** A 48V central motor delivering 250W power and a maximum torque of 100 Nm for strong pedal assistance.
- **AEG DownTube Battery:** Semi-integrated 48V, 14.5Ah battery providing 696 Wh, offering a range of up to 210 km

depending on riding conditions.

- **CAN-Bus Protocol:** Enables seamless communication between all electronic components (display, battery, motor, controller) for precise data and performance.
- **Hydraulic Disc Brakes:** Powerful and consistent braking performance in various conditions.
- **Suntour XCR Suspension Fork:** Features 100mm travel with a handlebar-mounted lockout function for adaptable riding on different terrains.
- **10-Speed Derailleur with Shift Sensor:** Ensures smooth gear changes by briefly interrupting motor power during shifting, reducing wear.
- **AEG TFT Display:** Provides real-time information such as speed, battery level, support level, and allows smartphone charging via USB.
- **ProKey Technology:** Allows starting the E-MTB with a ProKey chip for enhanced security.
- **Hardtail Design:** Offers a lighter weight, higher rigidity, and lower maintenance compared to full-suspension models, optimizing direct power transmission.



Figure 1: Overview of the Prophete Graveler 22.ETM.30 E-MTB.



Figure 2: Close-up of the semi-integrated AEG DownTube battery.



Figure 3: The AEG SportDrive central motor, providing powerful pedal assistance.



Figure 4: The AEG TFT display and handlebar controls, including the suspension lockout lever.



Figure 5: Detail of the hydraulic disc brake system for reliable stopping power.

4. SETUP

Before your first ride, ensure the following setup steps are completed:

4.1. Initial Battery Charge

1. Locate the charging port on the battery.
2. Connect the charger to the battery and then to a power outlet.
3. Allow the battery to fully charge before first use. The charging indicator on the battery or charger will show completion.
4. Always use the original Prophete charger provided with your E-MTB.

4.2. Seat Height Adjustment

1. Loosen the quick-release lever on the seat post clamp.
2. Adjust the seat height so that your leg is slightly bent at the knee when the pedal is at its lowest point.
3. Ensure the seat post is inserted beyond the minimum insertion mark.
4. Securely close the quick-release lever.

4.3. Handlebar and Stem Adjustment

Ensure the handlebars are aligned with the front wheel and tightened securely. Adjust the angle of the brake levers and shifters for comfortable reach.

4.4. Tire Pressure

Check the recommended tire pressure on the sidewall of your tires. Inflate tires to the appropriate pressure using a bicycle pump. Correct tire pressure improves ride quality and reduces the risk of punctures.

5. OPERATING INSTRUCTIONS

Operating your Prophete Graveler E-MTB involves understanding its electronic system and mechanical components.

5.1. Powering On/Off (ProKey)

1. Insert the ProKey chip into the designated slot on the E-MTB.
2. Press the power button on the AEG TFT display to turn on the system.
3. To power off, press and hold the power button until the display shuts down. Remove the ProKey for security.

5.2. Using the AEG TFT Display

The display shows vital information:

- **Speed:** Current riding speed.
- **Battery Level:** Remaining battery charge.
- **Support Level:** Indicates the current level of motor assistance (e.g., Eco, Tour, Sport, Turbo). Use the '+' and '-' buttons on the handlebar control unit to adjust.
- **Trip Distance/Total Distance:** Toggle between trip and total mileage.
- **USB Charging:** A USB port on the display allows charging of external devices like smartphones from the E-MTB battery.

5.3. Gear Shifting

Your E-MTB is equipped with a 10-speed derailleur system. Shift gears smoothly by using the shifters on the handlebars. The integrated shift sensor briefly cuts motor power during shifts, ensuring a smoother transition and reducing wear on the drivetrain components.

5.4. Suspension Fork Lockout

The Suntour XCR suspension fork features a lockout function. Use the lever on the handlebar to lock the fork for efficient pedaling on smooth surfaces or climbs, and unlock it for comfort and traction on rough terrain.

6. MAINTENANCE

Regular maintenance ensures the safety, performance, and longevity of your Prophete Graveler E-MTB.

6.1. Cleaning

- Clean your E-MTB regularly with a damp cloth and mild soap. Avoid high-pressure washers, especially near electrical components and bearings.
- Dry the bike thoroughly after cleaning.

6.2. Drivetrain Care

- Keep the chain clean and lubricated. Apply bicycle-specific chain lubricant regularly, especially after riding in wet or dusty conditions.
- Check chain tension and wear. A worn chain can damage other drivetrain components.

6.3. Brake System

- Regularly inspect brake pads for wear and replace them when necessary.
- Check brake fluid levels and bleed hydraulic brakes if they feel spongy. This should ideally be done by a qualified bicycle mechanic.
- Ensure brake rotors are clean and free of oil or grease.

6.4. Battery Care and Storage

- Charge the battery regularly, even if not in use, to maintain its health. Avoid fully discharging the battery.
- Store the battery in a cool, dry place, away from direct sunlight and extreme temperatures.
- If storing for an extended period, charge the battery to 50-70% and check its charge every few months.

6.5. General Inspection

- Periodically check all bolts and fasteners for tightness.
- Inspect tires for cuts, wear, and proper inflation.
- Ensure wheels are true and spokes are tensioned correctly.

For complex maintenance or repairs, it is recommended to consult a professional bicycle mechanic.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your E-MTB.

7.1. E-MTB Not Powering On

- **Check Battery:** Ensure the battery is fully charged and securely inserted into the frame.
- **Check ProKey:** Verify the ProKey chip is correctly inserted.
- **Power Button:** Ensure the power button on the display is pressed firmly.

7.2. Motor Not Providing Assistance

- **Battery Charge:** Confirm the battery has sufficient charge.
- **Support Level:** Check that a support level (e.g., Eco, Tour) is selected on the display and not set to '0' or 'Off'.
- **Error Codes:** Look for any error codes displayed on the AEG TFT screen and refer to the full manufacturer's manual for specific code meanings.
- **Pedaling:** The motor only assists when you are pedaling. Ensure you are pedaling consistently.

7.3. Brakes Feel Weak or Spongy

- **Brake Pads:** Inspect brake pads for wear. Replace if worn down.
- **Contamination:** Ensure brake rotors and pads are free from oil, grease, or dirt.
- **Hydraulic System:** If brakes feel spongy, the hydraulic system may need bleeding. This is a task for a qualified mechanic.

7.4. Gear Shifting Issues

- **Cable Tension:** Check if gear cables are properly tensioned.
- **Derailleur Alignment:** Ensure the derailleur is correctly aligned and not bent.
- **Chain Condition:** A dirty or worn chain can cause shifting problems. Clean and lubricate the chain.

If you encounter persistent issues not covered here, please contact your retailer or a certified Prophete service center.

8. SPECIFICATIONS

Model Number	51652-0121
Motor	AEG SportDrive, Central Motor, 48V, 250W, 100 Nm Torque

Battery	AEG DownTube, 48V, 14.5Ah, 696 Wh
Wheel Size	27.5 Inches
Frame Material	Aluminum
Suspension	Suntour XCR Suspension Fork (100mm travel)
Brakes	Hydraulic Disc Brakes
Gears	10-Speed Derailleur
Weight	23 Kilograms
Package Dimensions	199 x 114.5 x 23.5 cm
Special Features	Rechargeable, CAN-Bus Protocol, ProKey, Shift Sensor

9. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation provided at the time of purchase or contact your Prophete retailer. For technical support or service inquiries, please reach out to your authorized Prophete dealer or visit the official Prophete website for contact details.