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GOSEN Q3-PLUS

GOSEN Folding Electric Bike Q3-PLUS User Manual

Model: Q3-PLUS

1. Introduction

This user manual provides essential information for the safe operation, maintenance, and troubleshooting of your GOSEN Folding Electric Bike Q3-PLUS. Please read this manual thoroughly before your first ride to ensure proper usage and to maximize the lifespan of your e-bike.

The GOSEN Q3-PLUS is a versatile folding electric bicycle designed for adults, featuring a powerful 750W motor, a long-range 48V 15Ah LG battery, 20" x 4.0 fat tires, and a Shimano 7-speed transmission system. It is equipped with both fork and seat suspension for enhanced comfort, and hydraulic disc brakes for reliable stopping power.



Figure 1: GOSEN Folding Electric Bike Q3-PLUS. This image shows the complete electric bike in its unfolded state, highlighting its robust frame, fat tires, and integrated rear rack.

2. Safety Information

WARNING: Always wear a helmet when riding your electric bike. Obey all local traffic laws and regulations.

- Perform a pre-ride inspection before each use, checking tire pressure, brake function, and battery level.
- Do not ride under the influence of alcohol or drugs.
- Be aware of your surroundings and other road users.
- Avoid riding in extreme weather conditions.
- Ensure all quick releases and folding mechanisms are securely locked before riding.
- Do not exceed the maximum load capacity of 300 lbs (136 kg).

3. Setup and Assembly

Your GOSEN Q3-PLUS electric bike comes partially assembled. Follow these steps for final assembly and initial setup.

3.1 Unfolding the Bike

1. Carefully remove the bike from its packaging.
2. Unfold the frame by releasing the main frame hinge latch. Ensure it clicks securely into place.
3. Raise the handlebar stem and lock it into position using the stem quick release.
4. Adjust the seat post height and secure it with the seat post quick release.
5. Unfold the pedals if they are folded.

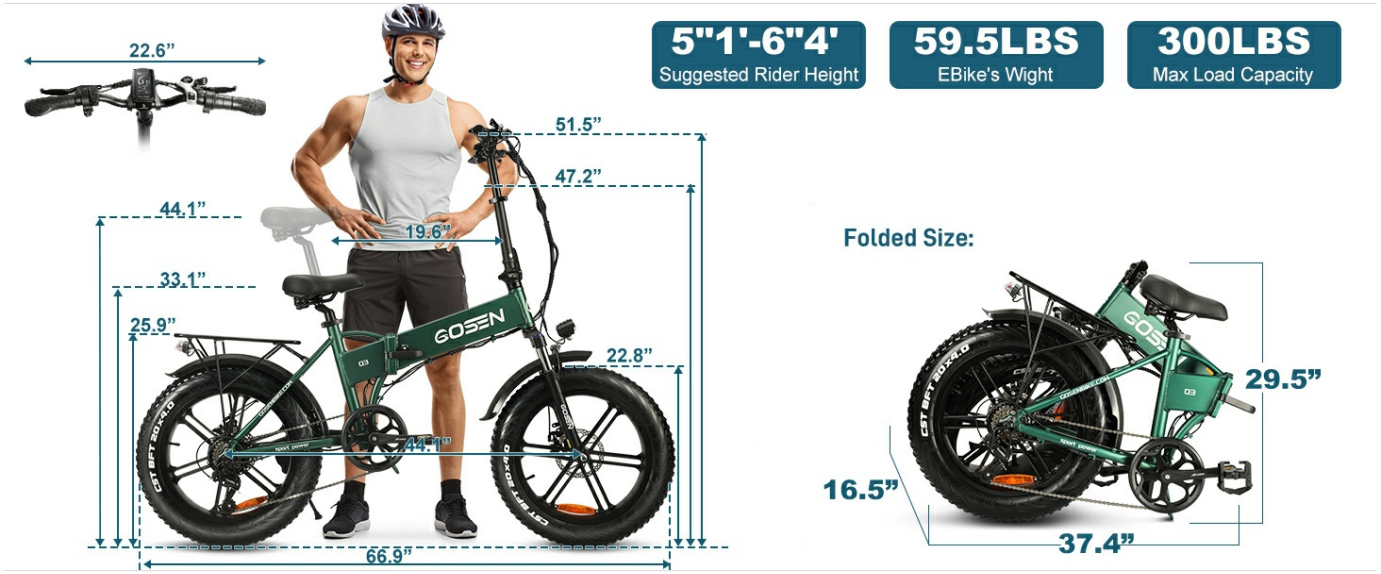


Figure 2: Bike Dimensions and Folded Size. This diagram illustrates the full dimensions of the GOSEN Q3-PLUS when unfolded and its compact size when folded, demonstrating the folding mechanism.

3.2 Battery Installation and Initial Charge

The 48V 15Ah LG battery is integrated into the frame. Ensure it is securely seated and locked before riding. For optimal performance, fully charge the battery before its first use.

- Locate the charging port on the battery or frame.
- Connect the charger to the charging port, then plug the charger into a standard wall outlet.
- The charger indicator light will show charging status (typically red for charging, green for fully charged).
- A full charge takes approximately 7 hours.



Figure 3: Long-Range Battery. This image highlights the integrated 48V 15Ah LG battery, emphasizing its capacity and long-range capabilities.



Figure 4: Detachable and Waterproof Battery. This image shows the battery being removed from the bike frame, illustrating its detachable and waterproof design for convenient charging and security.

4. Operating Instructions

4.1 Powering On/Off and Display

The GOSEN Q3-PLUS features a color LCD display for monitoring your ride.

- To power on the bike, press and hold the power button on the display unit.
- The display shows battery level, current speed, mileage, and pedal assist level.
- To power off, press and hold the power button again.



Figure 5: Color LCD Display and Controls. This image details the handlebar setup, showing the smart color LCD display and various control components like brake levers, gear shifter, and power buttons.

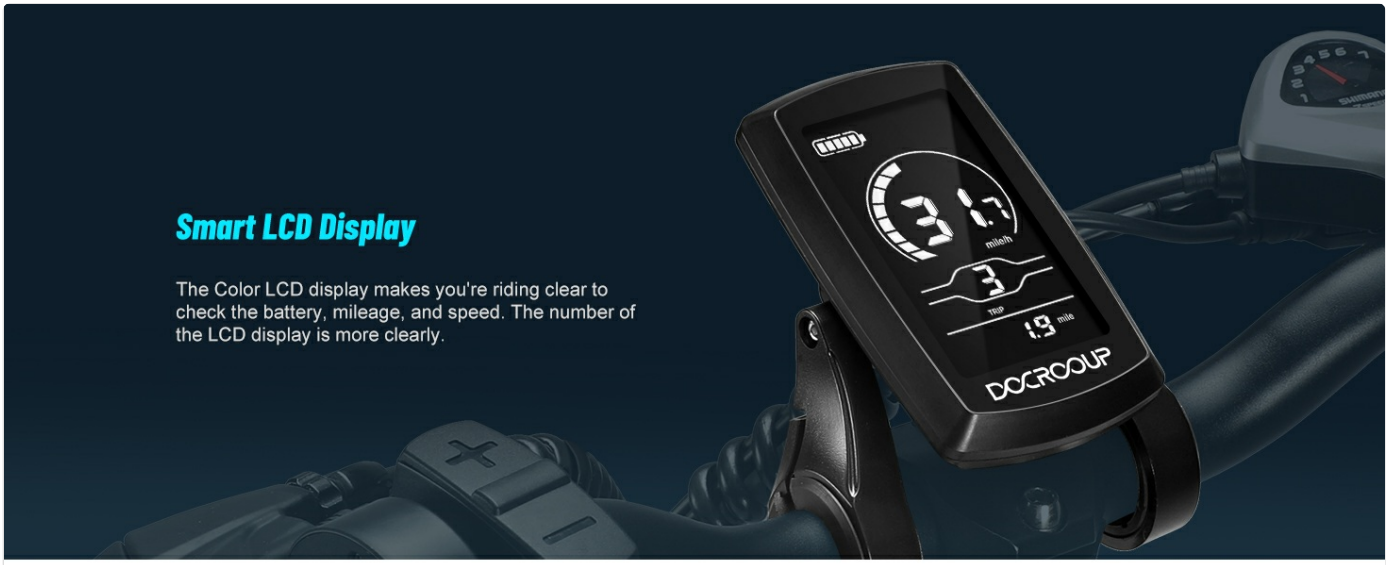


Figure 6: Smart LCD Display. A close-up view of the LCD display, showing its clear interface for checking battery, mileage, and speed.

4.2 Riding Modes

The GOSEN Q3-PLUS offers three riding modes:

- **Pure Electric Mode:** Use the throttle for propulsion without pedaling. Range up to 55 km.
- **Pedal Assist System (PAS) Mode:** The motor provides assistance as you pedal. Adjust assist levels using the display controls. Range up to 90 km.
- **Normal Bike Mode:** Ride like a traditional bicycle with no motor assistance.

4.3 Gear Shifting (Shimano 7-Speed)

The Shimano 7-speed transmission allows you to adjust to various terrains and riding conditions.

- Use the shifter on the handlebar to change gears.
- Shift to lower gears for climbing hills and higher gears for flat terrain or downhill riding.
- Always pedal lightly when shifting gears to ensure smooth transitions and prevent damage to the drivetrain.



Figure 7: SHIMANO 7-Speed System. This image shows a close-up of the Shimano 7-speed derailleur and cassette, highlighting the gear shifting mechanism.

4.4 Braking (Hydraulic Disc Brakes)

The hydraulic disc brakes provide sensitive and reliable stopping power.

- Apply both front and rear brake levers simultaneously for balanced and effective braking.
- Avoid sudden, hard braking, especially at high speeds or on slippery surfaces.
- The rear brake light illuminates when brakes are applied, enhancing safety.



Figure 8: Dual Mechanical Brakes. This image provides a detailed view of the brake lever and the disc brake caliper, illustrating the hydraulic disc brake system.



Figure 9: Friendly Rear Brakes Light. A close-up of the rear brake light, showing how it illuminates when the brakes are applied for increased visibility and safety.

4.5 Suspension System

The GOSEN Q3-PLUS features both front fork suspension and an upgraded seat suspension for a comfortable ride over varied terrain.

- The front fork suspension absorbs shocks from the front wheel, improving handling and comfort. Some models may have a lockout feature.
- The seat suspension further dampens vibrations and impacts, reducing rider fatigue.



Figure 10: Fork Suspension. This image illustrates the front fork suspension system, showing its internal components and the lockable feature for different riding conditions.

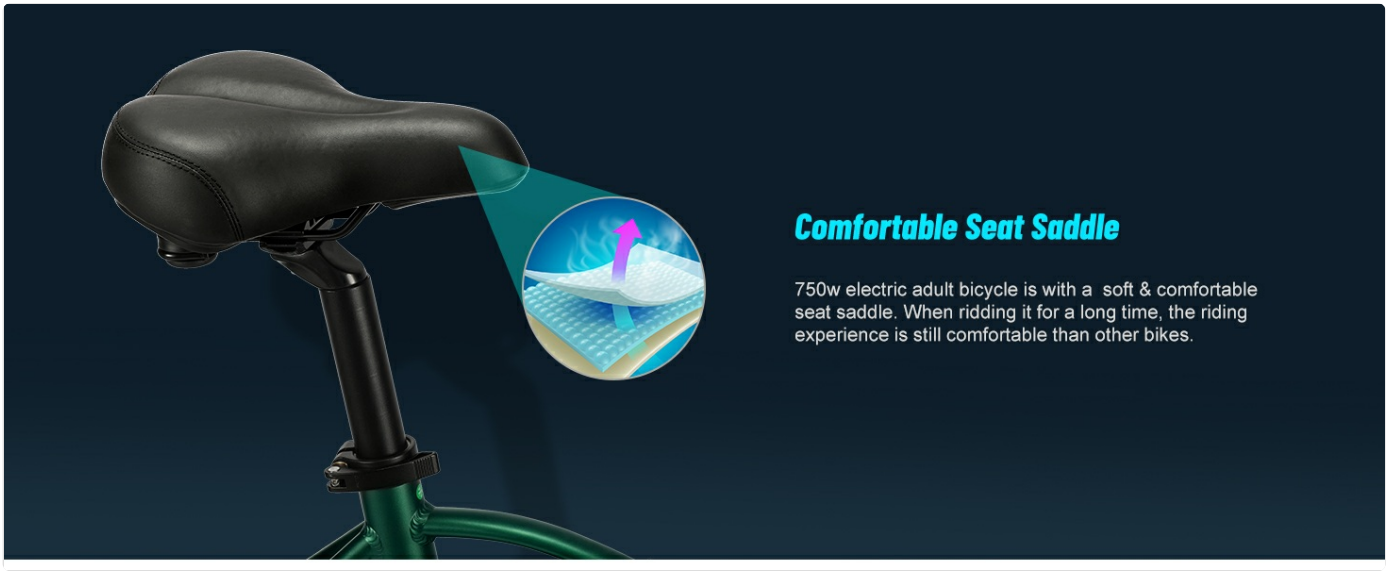


Figure 11: Comfortable Seat Saddle. This image focuses on the comfortable seat saddle, highlighting its design and the underlying suspension mechanism for improved riding comfort.

4.6 Fat Tires

The 20" x 4.0" fat tires provide excellent traction and stability across various terrains, including snow, sand, mud, and flat roads.

- Maintain proper tire pressure as indicated on the tire sidewall (typically around 30 psi).
- Lower pressure can provide more grip on soft surfaces, while higher pressure is better for efficiency on hard surfaces.



Figure 12: 20-inch Fat Tire. This image showcases the robust 20" x 4.0" fat tire, emphasizing its anti-puncture features and suitability for various terrains like muddy, snowy, beach, and flat roads.

4.7 Headlight and Rear Rack

- The integrated LED headlight provides illumination for night riding. Activate it via the display controls.
- The rear luggage carrier rack can support up to 70 pounds (approx. 31.7 kg) for carrying bags or other items.

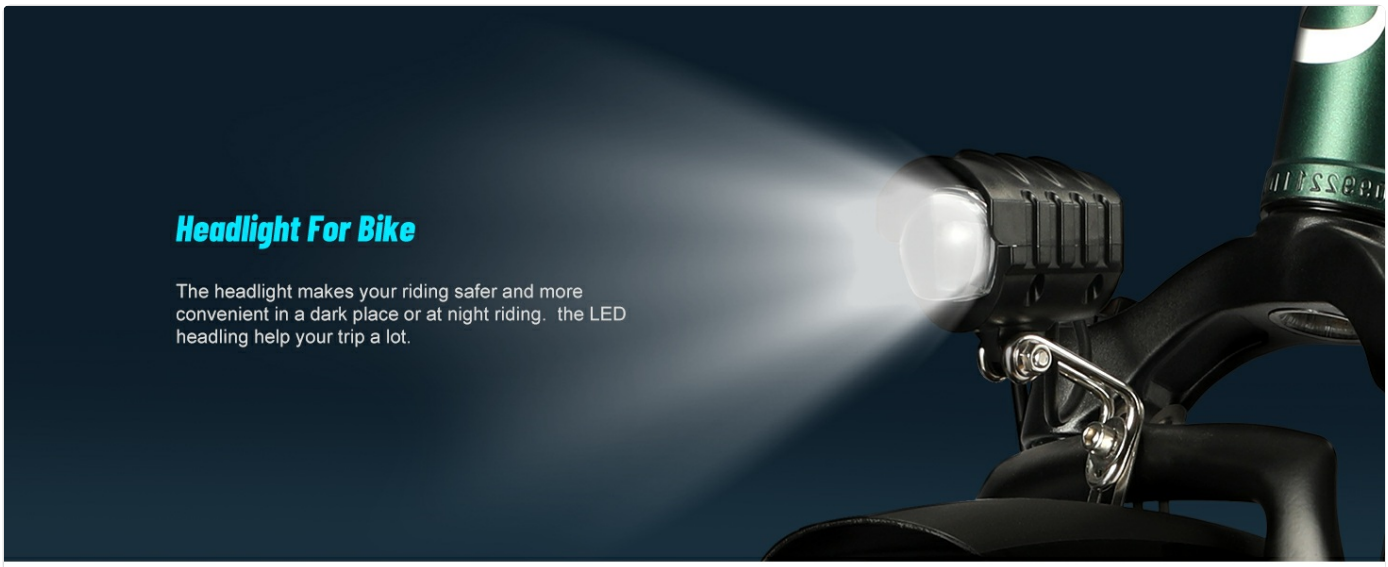


Figure 13: Headlight for Bike. A close-up view of the integrated LED headlight, designed to improve visibility and safety during dark conditions.



Figure 14: Luggage Carrier Rack. This image shows the sturdy rear luggage carrier rack, indicating its capacity for carrying packages and its ease of installation.

5. Maintenance

Regular maintenance ensures the longevity and safe operation of your GOSEN Q3-PLUS.

5.1 Battery Care

- Charge the battery regularly, even if not in use, to maintain its health.
- Avoid completely draining the battery before recharging.
- Store the battery in a cool, dry place, away from direct sunlight and extreme temperatures.
- If storing for extended periods, charge the battery to 50-70% and recharge every 1-2 months.

5.2 Tires

- Check tire pressure before each ride and inflate to the recommended PSI (around 30 psi) as indicated on the tire sidewall.
- Inspect tires for wear, cuts, or embedded objects.

5.3 Brakes

- Regularly check brake pads for wear and replace them when necessary.
- Ensure brake levers provide firm and responsive braking. If they feel spongy, the hydraulic system may need bleeding or adjustment by a qualified technician.
- Keep brake rotors clean and free of oil or grease.

5.4 Drivetrain (Chain, Gears)

- Keep the chain clean and lubricated to ensure smooth shifting and prevent rust.
- Periodically check the gears and derailleur for proper alignment and adjustment.

5.5 General Cleaning

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

6. Troubleshooting

This section addresses common issues you might encounter with your GOSEN Q3-PLUS electric bike.

Problem	Possible Cause	Solution
Bike does not power on.	Battery is not charged or not properly installed.	Ensure battery is fully charged and securely seated in the frame. Check connections.
Motor not assisting.	Battery low, pedal assist level too low, or brake levers engaged.	Charge battery. Increase pedal assist level on display. Ensure brake levers are fully released.
Brakes squeak or feel weak.	Contaminated brake pads/rotors, worn pads, or air in hydraulic line.	Clean rotors and pads. Replace worn pads. If hydraulic, consult a bike technician for bleeding.
Gears are not shifting smoothly.	Derailleur misalignment, dirty chain, or worn cable.	Clean and lubricate chain. Adjust derailleur. If issue persists, a bike shop can inspect cables.
Tire loses air quickly.	Puncture or valve issue.	Inspect tire for punctures. Check valve stem for leaks. Repair or replace inner tube.

7. Specifications

Feature	Detail
Model Number	Q3-PLUS
Motor	750W Brushless (Peak 1000W)
Battery	48V 15Ah LG Cells
Max Speed	Up to 40 km/h (25 mph)
Range (Pure Electric)	Up to 55 km (34 miles)
Range (PAS Mode)	Up to 90 km (56 miles)

Feature	Detail
Charging Time	Approx. 7 hours
Tires	20" x 4.0" Fat Tires
Gears	Shimano 7-Speed Transmission System
Brakes	Hydraulic Disc Brakes (160mm rotors)
Suspension	Front Fork Suspension, Seat Suspension
Frame Material	Aluminum Alloy
Max Load Capacity	300 lbs (136 kg)
Bike Weight	59.5 lbs (27 kg)
Suggested Rider Height	5'1" - 6'4"



Figure 15: 750W Power Motor. This diagram illustrates the internal structure of the 750W brushless motor, highlighting its power output and torque capabilities.



Figure 16: 750W Watt Hub Motor. A detailed view of the 750W hub motor integrated into the rear wheel, emphasizing its power for climbing and speed.

8. Warranty and Support

GOSEN provides a limited warranty for its products. Please refer to the warranty card included with your purchase or visit the official GOSEN website for detailed warranty terms and conditions.
For technical support, parts replacement, or any inquiries not covered in this manual, please contact GOSEN customer service through the retailer where you purchased the bike or via the official GOSEN support channels.
Keep your purchase receipt as proof of purchase for warranty claims.

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