

SAFETY FIRST

BUG-X LABS

SAFETY MANUAL

At Bug-X Labs, your safety is our top priority. Our e-bikes are designed with advanced safety features, but proper usage and precautions are essential for a secure riding experience. This manual covers the guidelines you need to ride confidently and safely.

PROTECTIVE GEAR

Gear Up For A Safe Ride

The right protective gear significantly reduces the risk of injury during rides. Always wear appropriate safety equipment, regardless of the distance or duration of your journey. Quality gear enhances both safety and comfort.

Essential Safety Gear

- **Helmet** — always wear a properly fitted helmet that meets safety standards. Replace after any impact or every 3-5 years.
- **Eye Protection** — sunglasses or clear goggles protect from debris, insects, wind, and harmful UV rays.
- **Gloves** — cycling gloves improve grip, reduce vibration fatigue, and protect hands in case of falls.
- **Reflective Clothing** — high-visibility clothing with reflective elements enhances your visibility to others.
- **Appropriate Footwear** — closed-toe shoes with good grip prevent foot injuries and provide better control.

TRAFFIC RULES

Navigate With Confidence

As an e-bike rider, you share the road with various vehicles and pedestrians. Understanding and following traffic rules is crucial for your safety and the safety of others. Always ride defensively and predictably.

Road Rules to Remember

- Obey all traffic signs, signals, and road markings
- Use bike lanes where available and ride in the direction of traffic
- Signal your intentions clearly before turning or changing lanes
- Yield to pedestrians and give audible signals when passing
- Maintain a safe distance from parked cars to avoid "dooring"
- Never ride against traffic flow — it's dangerous and illegal
- Make eye contact with drivers at intersections to ensure they've seen you
- Avoid riding on sidewalks except where permitted by local regulations

Know Your Local Laws

E-bike regulations vary by location. Familiarize yourself with local laws regarding speed limits, age restrictions, licensing, and permitted routes.

BATTERY SAFETY

Power Up Safely

The lithium-ion battery in your Bug-X e-bike is designed with multiple safety features. However, proper handling, charging, and storage are essential to maintain its safety, performance, and longevity.

Charging Guidelines

- Only use the original charger provided with your Bug-X e-bike
- Charge in a dry, well-ventilated area away from flammable materials
- Avoid extreme temperatures while charging (optimal: 10-30°C)
- Don't leave the battery charging unattended for extended periods
- Disconnect the charger once the battery is fully charged
- Allow the battery to cool down before charging after riding

Storage & Maintenance

- Proper Storage — store at 40-60% charge in a cool, dry place. Avoid extreme temperatures. Recharge to 60% every 3 months if storing long-term.
- Physical Protection — protect from impacts and punctures. Never use a damaged battery. Inspect regularly for signs of damage or wear.
- Water Exposure — while your Bug-X is water-resistant, avoid submerging the battery. Dry thoroughly if exposed to heavy rain.
- End-of-Life — never dispose of in regular trash. Return to Bug-X Labs or a local e-waste facility for proper recycling.

MAINTENANCE

Keep Your Ride In Prime Condition

Regular maintenance is crucial for both safety and performance. A well-maintained e-bike not only lasts longer but also provides a more enjoyable and secure riding experience.

Pre-Ride Safety Check

- Tire Pressure — check tire pressure is within recommended range (printed on tire sidewall)
- Brake Function — test both brakes to ensure they engage properly and stop effectively
- Battery Level — confirm adequate charge for your planned ride with some reserve
- Lights & Signals — verify all lights and signals are functioning correctly
- Quick Releases — ensure all quick releases and bolts are properly secured
- Unusual Sounds — listen for any unusual sounds that might indicate issues

Maintenance Schedule

- Weekly Check — clean frame, check tire pressure, inspect brakes

- Monthly Maintenance — check chain tension, clean drivetrain, inspect electrical connections
- Quarterly Service — professional check of motor, battery, and electronics
- Annual Overhaul — complete professional service of all components

WEATHER RIDING

Master Every Climate

Different weather conditions require specific riding techniques and precautions. While your Bug-X e-bike is designed to perform in various conditions, understanding how to adapt to weather challenges will ensure a safer riding experience.

Rainy Conditions

- Reduce speed and increase stopping distance
- Avoid puddles that may hide potholes or debris
- Use fenders to reduce spray and improve visibility
- Wear waterproof clothing with reflective elements
- Apply brakes earlier and with less force
- Dry and lubricate the drivetrain after wet rides

Hot Weather

- Stay hydrated and take breaks in shaded areas
- Protect the battery from extreme heat (above 40°C)
- Ride during cooler hours of the day when possible
- Use sunscreen and wear breathable, light-colored clothing
- Be aware that range may decrease in extreme heat

Wind Conditions

- Maintain a lower center of gravity in strong winds
- Be aware of crosswinds, especially when passing open areas
- Grip the handlebars firmly but not tensely
- Allow for decreased range when riding against strong headwinds
- Be prepared for sudden gusts around buildings or large vehicles

NIGHT RIDING

Illuminate Your Journey

Night riding presents unique challenges and requires extra precautions. The Bug-X e-bike is equipped with advanced lighting, but additional measures will further enhance your visibility and safety during low-light conditions.

Night Riding Essentials

- Lighting — confirm your front and rear lights are working properly; consider additional lighting; use flashing mode to attract attention
- Reflective Gear — wear reflective clothing or add reflective elements; use reflective stickers on helmet and bike
- Route Planning — choose well-lit routes whenever possible; plan your journey in advance; share your route with someone if riding alone
- Riding Technique — reduce speed and increase following distance; be extra cautious at intersections; watch carefully for hazards that are harder to see

Safety Reminder: If you're unsure about riding at night, or if weather conditions are poor, consider alternative transportation. Your safety is always the top priority.

EMERGENCY

Be Prepared For The Unexpected

Knowing how to handle emergency situations can make a critical difference. While we hope you never need this information, being prepared for unexpected scenarios is an essential part of responsible e-bike ownership.

In Case of Accident

1. Ensure Safety

Move yourself and your e-bike to a safe location away from traffic if possible

2. Assess Injuries

Check yourself and others for injuries. When in doubt, seek medical attention

3. Call for Help

Contact emergency services if needed

4. Document the Scene

Take photos and collect contact information from witnesses

5. Notify Bug-X Support

Contact our support team for assistance with your e-bike

Emergency Kit Essentials

- Charged mobile phone
- Basic repair tools
- Location sharing app
- First aid supplies
- Spare inner tube
- Power bank

Emergency Contacts

Emergency Services:

112

Bug-X Customer Support:

+234 (0) 703 720 1484

Support Email:

info@bugxlabs.com

AT A GLANCE

Essential Safety Quick Tips

Keep these crucial safety tips in mind every time you ride your Bug-X e-bike. Small precautions lead to significant safety improvements and a more enjoyable riding experience.

Protective Gear

- Always wear an approved helmet
- Use appropriate eye protection
- Consider gloves for better grip and protection
- Wear closed-toe shoes with good grip
- Use high-visibility and/or reflective clothing

Riding Behavior

- Follow all traffic rules and signals
- Ride predictably and signal your intentions
- Maintain safe speeds appropriate for conditions
- Stay alert and avoid distractions (no headphones)
- Yield to pedestrians and be respectful of others

Bike Maintenance

- Regularly check brakes and tire pressure
- Keep the battery properly charged
- Ensure all lights and reflectors are functional
- Keep the chain clean and properly lubricated
- Schedule professional service at recommended intervals