

GYROCOPTERS Zapphire

Gyrocopters Zapphire Electric Bike User Manual

Model: Zapphire

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1. SETUP AND ASSEMBLY

This section guides you through the initial setup and assembly of your Gyrocopters Zapphire Electric Bike. Please follow the steps carefully to ensure safe and correct operation.

1.1 Unpacking the Bike

Carefully remove the electric bike and all components from the packaging. Inspect for any damage during transit. Keep all packaging materials until assembly is complete and you have confirmed all parts are present.



ZAPPHIRE MOUNTAIN E-BIKE
**EXPLORE MORE,
GO FARTHER**

91km (57mi)
Max PAS Range

32km/h (20mi/h)
Max Speed

10 AH
Battery Capacity

UL2849
Approved

Smart GPS World Tracker

- Anti-theft Protection
- Easy Location Tracking
- Left-Behind Reminder

AI
INTELLIGENT ASSISTANCE

PROUDLY CANADIAN COMPANY
15 YEARS STRONG

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Image: Gyrocopters Zapphire Electric Bike in its original packaging.

1.2 Component Identification

Before assembly, identify all included components. Refer to the assembly video for a visual guide to each part.

Your browser does not support the video tag.

Video: Detailed assembly instructions for the Gyrocopters Zapphire Electric Bike, showing each component and step-by-step installation.

1.3 Kickstand Installation

Attach the kickstand to the designated mounting points on the bike frame using the provided wrench and screws. Ensure it is securely fastened and allows the bike to stand stably.

1.4 Handlebar Installation

Insert the handlebar stem into the fork tube and tighten the bolts to secure it. Adjust the handlebar to a comfortable riding position, ensuring the brake levers and shifter are easily accessible.

1.5 Front Wheel Installation

Carefully align the front wheel with the fork dropouts, ensuring the brake rotor slides correctly into the caliper. Insert the quick-release skewer or axle and tighten it firmly. Double-check that the wheel spins freely without rubbing against the brake pads.

1.6 Pedal Installation

Identify the left (L) and right (R) pedals. Apply a small amount of grease to the pedal threads. Screw the pedals into the crank arms by hand, then use a wrench to tighten them securely. Remember that the left pedal tightens counter-clockwise.

1.7 Seat and Tail Light Installation

Insert the seat post into the frame's seat tube. Adjust the seat height to a comfortable level, ensuring your feet can touch the ground when stopped. Secure the seat post with the quick-release lever or bolt. Attach the tail light to the seat post, ensuring it is visible from the rear.

1.8 Battery Installation

Insert the removable 42V 10Ah lithium-ion battery into its compartment on the bike frame. Use the provided key to lock the battery securely in place. Ensure the battery is fully charged before your first ride.



REMOVABLE BATTERY
CHARGE ANYTIME & ANYWHERE

-  **42V** Charging Voltage
-  **10AH** Battery Capacity
-  **Lock/Unlock with Key** Charge with Safety

USB Output
Use as Power Bank



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Image: Removable battery being inserted into the Gyrocopters Zapphire Electric Bike frame.

2. OPERATING INSTRUCTIONS

Understand how to operate your Gyrocopters Zapphire Electric Bike safely and efficiently.

2.1 Power On/Off and LED Display

To power on the bike, press and hold the power button on the LED display for 3 seconds. The LED display will illuminate, showing speed, battery level, and current ride mode. To power off, press and hold the power button again for 3 seconds. The display also controls the headlight (press once to switch mode, press and hold for 3 seconds to turn on/off headlight).

SAFETY & RELIABLE TRUSTED E-BIKE FOR YOU

- +** Press 1 time: Switch the Mode
Press & Hold 3 seconds: Headlight On/Off
- M** Press & Hold 3 seconds: Power On/Off
- Press 1 time: Switch the Mode

Brake, LCD Display, Bell, 7-Speed Thumb Shifter, Calibration Mark, Accelerate the Speed

UL 2849 Approved
Safety approved for Canada and the US laws, ensuring a secure e-bike that meets safety standards. UL2849 test:
• Brakes
• Battery Systems
• Electrical Components
• Mechanical Components
• Structural Integrity

Battery Management System (BMS)
Protect Battery from:
• Overload • Undervoltage
• Short Circuit • Over Heat
• Overcurrent • Catching Fire
• Overvoltage
UL Approved Battery

Smart GPS World Tracker
Worth \$39 Save your Money
Compatible with Apple 'Find My'
Built-in Privacy
Replaceable Battery
Left-Behind Reminder

Image: Close-up of the LED display and handlebar controls.

2.2 Riding Modes

The Gyrocopters Zapphire offers three versatile riding modes:

- **Pedal Assist Mode:** Provides motor assistance as you pedal, extending your range up to 91 km and reducing fatigue.

- **Throttle Mode:** Allows for effortless cruising without pedaling, reaching speeds up to 32 Km/h.
- **Manual Mode:** For a traditional biking experience without any motor assistance.



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3 RIDING MODES

TRANSFORM THE WAY YOU RIDE



Pure Electric Mode

50km (31miles)



Pedal Assist Mode

91km (57miles)



Normal Riding Mode

Conquer the Miles



* Ebike speed and range may vary due to terrain, battery condition, and legal restrictions; estimates provided but not guaranteed by Gyrocopters

Image: Illustration of the three riding modes available on the electric bike.

2.3 Gear Shifting

The bike is equipped with a reliable SHIMANO 7-speed gear set. Use the thumb shifter on the handlebar to change gears, adapting your riding style to different terrains and inclines.

2.4 Braking System

The Gyrocopters Zapphire features front and rear mechanical disc brakes. Squeeze the brake levers on the handlebar to engage the brakes. Always apply both brakes simultaneously for balanced and effective stopping power.



Image: Close-up view of the mechanical dual disc brakes.

2.5 Integrated GPS Tracker

The integrated GPS tracker allows you to monitor your e-bike's location remotely via a compatible app, providing an additional layer of security against theft.

An advertisement for Gyrocopters e-bikes. The background shows a man and a woman riding e-bikes on a dirt path through a mountainous landscape. The text on the left lists three riding modes: Pure Electric Mode (50km/31miles), Pedal Assist Mode (91km/57miles), and Normal Riding Mode (Conquer the Miles). The Gyrocopters logo is in the top right corner. A small disclaimer at the bottom left states: '* Ebike speed and range may vary due to terrain, battery condition, and legal restrictions; estimates provided but not guaranteed by Gyrocopters'.

3 RIDING MODES
TRANSFORM THE WAY YOU RIDE

- Pure Electric Mode**
50km (31miles)
- Pedal Assist Mode**
91km (57miles)
- Normal Riding Mode**
Conquer the Miles

* Ebike speed and range may vary due to terrain, battery condition, and legal restrictions; estimates provided but not guaranteed by Gyrocopters

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Image: Smartphone screen showing the real-time location tracking feature of the integrated GPS tracker.

3. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your electric bike.

3.1 Battery Care and Charging

The 42V 10Ah lithium-ion battery is removable for convenient charging. Connect the charger to the battery's charging port and then to a power outlet. The integrated Battery Management System (BMS) protects against overcharging, overheating, and short circuits. The battery also features a built-in USB port for charging external devices.



Image: Diagram illustrating the protective features of the Battery Management System (BMS).

3.2 Tire Pressure

Maintain proper tire pressure for the 20x3 inch fat tires. Refer to the tire sidewall for recommended pressure ranges. Correct tire pressure improves ride comfort, efficiency, and tire lifespan.

3.3 General Cleaning and Storage

The bike has an IP54 weather-resistant design, protecting it from dust and splashes. Clean the bike regularly with a damp cloth and mild detergent. Avoid high-pressure washing directly on electrical components. Store the bike in a dry, cool place when not in use.

3.4 Brake Inspection

Regularly inspect the mechanical disc brakes for wear on the pads and rotors. Ensure the brake levers have proper tension and the cables are not frayed. Adjust or replace components as needed by a qualified technician.

4. TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your electric bike.

4.1 Bike Not Powering On

- **Check Battery:** Ensure the battery is fully charged and properly seated in its compartment. Verify the battery is locked with the key.
- **Power Button:** Confirm you are pressing and holding the power button on the LED display for the required 3 seconds.
- **Connections:** Inspect all visible electrical connections for looseness or damage.

4.2 Motor Not Providing Assistance

- **Battery Level:** Ensure the battery has sufficient charge.
- **Riding Mode:** Verify that the bike is in Pedal Assist or Throttle Mode, not Manual Mode.
- **Sensor Check:** Ensure the pedal-assist sensor (if applicable) is clean and unobstructed.

4.3 Brakes Not Responding Effectively

- **Brake Pads:** Check for worn brake pads and replace if necessary.
- **Brake Levers:** Ensure brake levers are not loose and have proper tension. Adjust cable tension if needed.
- **Rotor Condition:** Inspect brake rotors for damage or excessive wear.

4.4 Unusual Noises During Operation

- **Loose Components:** Check for any loose bolts, nuts, or components on the frame, wheels, or handlebars.
- **Chain:** Inspect the chain for proper lubrication and tension.
- **Brakes:** Ensure brake pads are not rubbing against the rotors when not engaged.

5. SPECIFICATIONS

Detailed technical specifications for the Gyrocopters Zapphire Electric Bike.

Feature	Specification
Model Name	Zapphire
Motor Power	500W
Battery	42V 10Ah Lithium-ion (Removable)
Max Pedal-Assist Range	Up to 91 km (57 miles)
Max Speed	Up to 32 Km/h (20 mi/h)
Tires	20x3 Inch Fat Tires
Brakes	Front and Rear Mechanical Dual Disc Brakes
Frame Material	Lightweight Magnesium Alloy
Suspension Type	Dual
Max Load Capacity	120.2 kg (265 lbs)
UL Certification	UL 2849 Certified
GPS	Integrated Anti-Theft GPS Tracker
Display	LED Display with Smart Controls
Weather Resistance	IP54 Rated

6. WARRANTY AND SUPPORT

Information regarding product warranty and how to contact customer support.

6.1 Product Warranty

The Gyrocopters Zapphire Electric Bike comes with a **90-day limited warranty**. This warranty covers manufacturing defects under normal use conditions. Please retain your proof of purchase for warranty claims. The warranty does not cover damage resulting from misuse, accidents, unauthorized modifications, or normal wear and tear.

6.2 Customer Support

For any questions, technical assistance, or warranty claims, please contact Gyrocopters customer support:

- **Phone:** +1 647-797-3804
- **Email:** customercare@imgadgets.com

Our support team is available to assist you with any issues you may encounter.