FREESKY Cheetah MT-380

FREESKY Cheetah MT-380 Electric Bike User Manual

Model: MT-380 | Brand: FREESKY

1. Safety Information

Before operating your FREESKY Cheetah MT-380 electric bike, please read and understand all safety instructions. Failure to follow these instructions may result in serious injury or property damage.

- Always wear a helmet and appropriate safety gear when riding.
- Perform a pre-ride inspection before each use, checking brakes, tires, and battery level.
- Adhere to local traffic laws and regulations for electric bikes.
- Avoid riding in adverse weather conditions or on excessively rough terrain if you are not experienced.
- The FREESKY Cheetah MT-380 is UL 2849 Certified by TÜV standard, ensuring compliance with electrical safety standards.
- Be aware of your surroundings and other road users.

Braking System

The bike is equipped with advanced 4-piston hydraulic disc brakes for reliable stopping power. Ensure brakes are properly adjusted and functional before each ride.



Image: The FREESKY Cheetah MT-380 features 4-piston hydraulic disc brakes and a smart lighting system for enhanced safety and visibility.

2. Product Overview

The FREESKY Cheetah MT-380 is a high-performance electric bike designed for adults, featuring a dual motor system, long-range battery, and full suspension for versatile riding across various terrains.



Image: The FREESKY Cheetah MT-380 electric bike, showcasing its robust design and dual battery system.

Key Features:

- **Dual Motor System:** Equipped with dual 3000W peak-power motors (4000W total peak power) and 240NM torque for powerful off-road performance and climbing 45° slopes.
- **Long-Range Battery:** Features a 48V 41AH (2800WH) removable battery, offering an extended range of up to 160 miles (300+ KM) per charge.
- **Full Suspension:** Advanced all-terrain full suspension system, including front suspension fork and rear shock absorbers, designed to absorb 90% of road vibrations for a comfortable ride.
- **Fat Tires:** 26" x 4" fat tires provide excellent traction and stability on various surfaces.
- **Smart Command Center:** HD colorful display with integrated Type-C charging port.
- **Safety Lighting:** 1000-lumen headlight and integrated 3-in-1 taillight (turn and brake signals) for improved visibility.
- **Comfort Design:** Plush full-size tandem seat with integrated passenger footpegs.

3. Setup and Assembly

Your FREESKY Cheetah MT-380 electric bike arrives 85% pre-assembled. Follow these steps for final assembly and initial setup.

3.1 Unpacking and Initial Inspection

1. Carefully remove the bike from its packaging. Retain all packaging materials for potential future transport or warranty claims.
2. Inspect the bike for any signs of damage during shipping. Contact customer support immediately if any damage is found.
3. Verify all components listed in the packing list are present.

3.2 Handlebar and Front Wheel Installation

1. Install the handlebar onto the stem, ensuring it is centered and tightened securely.
2. Attach the front wheel, aligning the disc brake rotor with the caliper. Secure the wheel nuts firmly.

3.3 Seat and Pedal Installation

1. Insert the seat post into the frame and adjust the seat height to your preference. Secure the quick-release lever or bolt.
2. Attach the pedals, noting that the left pedal is reverse-threaded. Ensure they are tightened securely.

3.4 Battery Charging

1. Locate the charging port, typically under the 'gas tank' cover.
2. Connect the provided 48V 5A fast charger to the battery and a power outlet.
3. Allow the battery to fully charge before the first ride. The charging indicator on the charger will change when complete.

3.5 Pre-Ride Checks

- **Tires:** Check tire pressure. The recommended pressure for CST 20"x4" fat tires is typically between 5-30 PSI, depending on terrain and rider weight. Refer to the tire sidewall for exact specifications.
- **Brakes:** Test both front and rear brakes to ensure they engage smoothly and effectively.
- **Fasteners:** Verify all bolts and quick-release levers are securely tightened.

4. Operating Instructions

4.1 Powering On/Off and Unlocking

To power on the e-bike, insert the physical key and turn it clockwise. This activates the system. To unlock the display and enable riding functions, use the NFC key.

Video: Demonstrates how to power on and unlock the e-bike using the NFC card.

Alternatively, you can unlock the screen by entering a password using the control buttons on the handlebar. Refer to the 'How to Reset Your Password' video in the Troubleshooting section for password setting instructions.

4.2 Smart Control Display

The HD colorful display provides real-time information about your ride, including speed, battery level, riding mode, and total mileage.



Image: The Smart Command Center with HD Display on the FREESKY Cheetah MT-380 handlebar, showing various ride metrics and controls.

4.3 Riding Modes

The FREESKY Cheetah MT-380 offers 5 versatile riding modes:

- **Electric Mode:** Pure electric power, no pedaling required.
- **Pedal-Assist Mode:** Motor provides assistance as you pedal.
- **Dual Motor Mode:** Engages both motors for maximum power and torque.
- **Manual Mode:** Ride like a traditional bicycle without motor assistance.
- **Walk Mode:** Provides low-speed assistance for walking the bike.

Switch between modes using the control panel on the handlebar.

4.4 Cruise Control

To activate cruise control, accelerate to your desired speed using the throttle, then hold the throttle steady for 10 seconds. The e-bike will enter cruise control mode. To exit, engage the rear brake.

Video: Instructions on how to set and disengage cruise control mode.

4.5 Gear Shifting

The FREESKY Cheetah MT-380 features a Shimano 7-speed gear system. Use the shifter on the handlebar to change gears according to terrain and desired pedaling effort.

4.6 Lighting System

Activate the 1000-lumen headlight and integrated 3-in-1 taillight (which includes turn and brake signals) using the controls on the handlebar. Ensure lights are on when riding in low-light conditions or at night.

4.7 Bluetooth Speaker

The integrated Bluetooth speaker allows for music streaming. Pair your device with the e-bike's speaker. A dedicated remote may be included to control volume and track selection.

5. Maintenance

Regular maintenance ensures the longevity and safe operation of your FREESKY Cheetah MT-380 electric bike.

5.1 Battery Care

- Charge the battery regularly, even if not in use, to maintain its health.
- Avoid completely draining the battery.
- Store the battery in a cool, dry place away from direct sunlight and extreme temperatures.

5.2 Tire Maintenance

- Regularly check tire pressure and inflate to the recommended PSI.
- Inspect tires for wear, punctures, or damage. Replace worn tires promptly.

5.3 Brake System

- Periodically inspect brake pads for wear and replace as needed.
- Ensure brake calipers are centered with the rotors for optimal performance.
- Check hydraulic fluid levels if applicable (for hydraulic brakes).

5.4 General Inspection and Cleaning

- Regularly check and tighten all screws and fasteners on the bike.
- Keep the bike clean by wiping it down with a damp cloth. Avoid using high-pressure washers directly on electrical components.
- Lubricate the chain periodically to ensure smooth operation and prevent rust.

5.5 Suspension Adjustment

The dual suspension system may require adjustment based on rider weight and terrain. Consult a professional bike technician for optimal suspension tuning, especially for the rear air canister shocks.

6. Troubleshooting

This section addresses common issues you might encounter with your FREESKY Cheetah MT-380 electric bike.

6.1 Display Not Turning On

- Ensure the main power key is turned on.
- Check if the battery is properly seated and charged.

- Verify all electrical connections are secure.

6.2 Motor Not Engaging

- Confirm the display is unlocked (using NFC key or password).
- Check the selected riding mode. Ensure it's not in Manual mode.
- Verify brake levers are not partially engaged, as this can cut motor power.

6.3 Reduced Range

- Ensure the battery is fully charged before each ride.
- Riding in higher assist modes, against strong winds, or on steep inclines will reduce range.
- Check tire pressure; underinflated tires can decrease efficiency.

6.4 How to Reset Your Password

If you need to reset or set a password for your e-bike's display, follow the instructions in this video:

Video: Guide on how to reset or set the password for the e-bike display.

7. Specifications

Feature	Specification
Model Name	Cheetah
Model Number	MT-380
Brand	FREESKY
Motor Power	3000W (4000W Peak Dual Motor)
Battery	48V 41AH (2880 Watt Hours) Removable Lithium Battery
Max Range	Up to 160 Miles (300+ KM)
Top Speed	40 MPH+ (70 KM/H unlocked)
Wheel Size	20 Inches (CST 20"x4" Fat Tires)
Frame Material	6061 High-Strength Aluminum
Suspension Type	Dual (Full Suspension)
Brakes	4-Piston Hydraulic Disc Brakes
Number of Speeds	7 (Shimano Gear System)
Item Weight	77 Pounds (approx. 34.93 kg)
Maximum Weight Recommendation	400 Pounds
Certifications	UL 2849 Certified by TÜV standard

8. Warranty and Support

8.1 Warranty Information

FREESKY provides an 18-month warranty on key components of the Cheetah MT-380 electric bike. Please refer to your purchase documentation or contact FREESKY customer support for detailed warranty terms and conditions.

8.2 Customer Support

For any questions, technical assistance, or warranty claims, please contact FREESKY customer support. Contact information can typically be found on the manufacturer's website or your purchase invoice.
Manufacturer Contact Information: FREESKY