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ANCHEER StreetRider (Model AMA005931)

ANCHEER 14-inch Folding Electric Bicycle User Manual

Model: StreetRider (AMA005931)

1. Introduction

Thank you for choosing the ANCHEER 14-inch Folding Electric Bicycle. This manual provides essential information for the safe operation, assembly, maintenance, and troubleshooting of your e-bike. Please read this manual thoroughly before your first ride to ensure proper use and to maximize your riding experience.



Figure 1.1: The ANCHEER 14-inch Folding Electric Bicycle, showcasing its compact design and integrated components.

2. Safety Information

Your safety is paramount. This electric bicycle is designed with safety features and complies with relevant standards. Always wear a helmet and appropriate safety gear when riding. Adhere to local traffic laws and regulations.

2.1 Certifications

The ANCHEER electric bicycle is UL2849 Compliant, and its battery is UL2271 Compliant, ensuring high safety standards for the electrical system and battery components.



CERTIFICATE OF COMPLIANCE

Certificate Number: SGSNA/24/SZ/06147

Contract Number: 802126
Certificate Project Number: SZ-CER1240401266

Certified Product: Electric bikes
Trademarks: -
Model(s): AMAK00013, AMA005695_UL, AMA005705_UL, AMA005703_UL
Technical Data: 48 VDC, 10.4 Ah;
Charge Temperature Range (ambient): 0 °C – 40 °C;
Discharge Temperature Range (ambient): -10 °C – 40 °C;
Max. speed: 35 km/h; Max. load: 120 kg

Certificate Holder: Shenzhen Vanpowers Intelligent Technology Co., Ltd.
901A0, No. 6, Kangli City, No. 66, Pingji Avenue, Liang Community, Nanwan Street, Longgang District, Shenzhen, Guangdong, China

ANSI/CAN/UL 2849:2022, 1st Edition, dated January 2, 2020, revised June 17, 2022

Authorized by: Effective date: 09 April 2024

Jason Wei
Certifier

Certification Body

Figure 2.1: Display of various safety certifications, including UL2849 for the e-bike, UL2271 for the battery, and UL 62368-1 for the charger, demonstrating adherence to international safety standards.

2.2 General Safety Guidelines

- Perform a pre-ride inspection before each use, checking brakes, tires, and battery level.
- Do not exceed the maximum load capacity of 265 lbs (120 kg).
- Ensure the seat post is adjusted correctly and does not exceed the safety line.
- Avoid riding in adverse weather conditions or on excessively rough terrain.
- Keep hands and feet clear of moving parts.

3. Product Overview

The ANCHEER 14-inch Folding Electric Bicycle is designed for urban commuting and recreational use, offering a blend of power, portability, and comfort.

3.1 Key Features

- **Motor:** 350W rated, 500W peak brushless motor, providing a top speed of 22 MPH.
- **Battery:** 48V 7.8Ah (374.4Wh) Lithium-ion battery, offering 15-30 miles range in pedal-assist mode. Full charge in 5-6 hours.
- **Shock Absorption:** Dual shock absorbers (suspension front fork + rear shock absorption) and a spring shock saddle for enhanced comfort.
- **Braking System:** Front and rear dual disc brakes for reliable stopping power.
- **Lighting:** Bright headlight and integrated taillight with brake-light indicator.
- **Portability:** 14-inch folding design, compact size (50x21x42 inches folded) and 48.5 lbs net weight for easy transport and storage.
- **Display:** Intuitive LCD display showing speed, battery life, pedal-assist levels, and mileage.

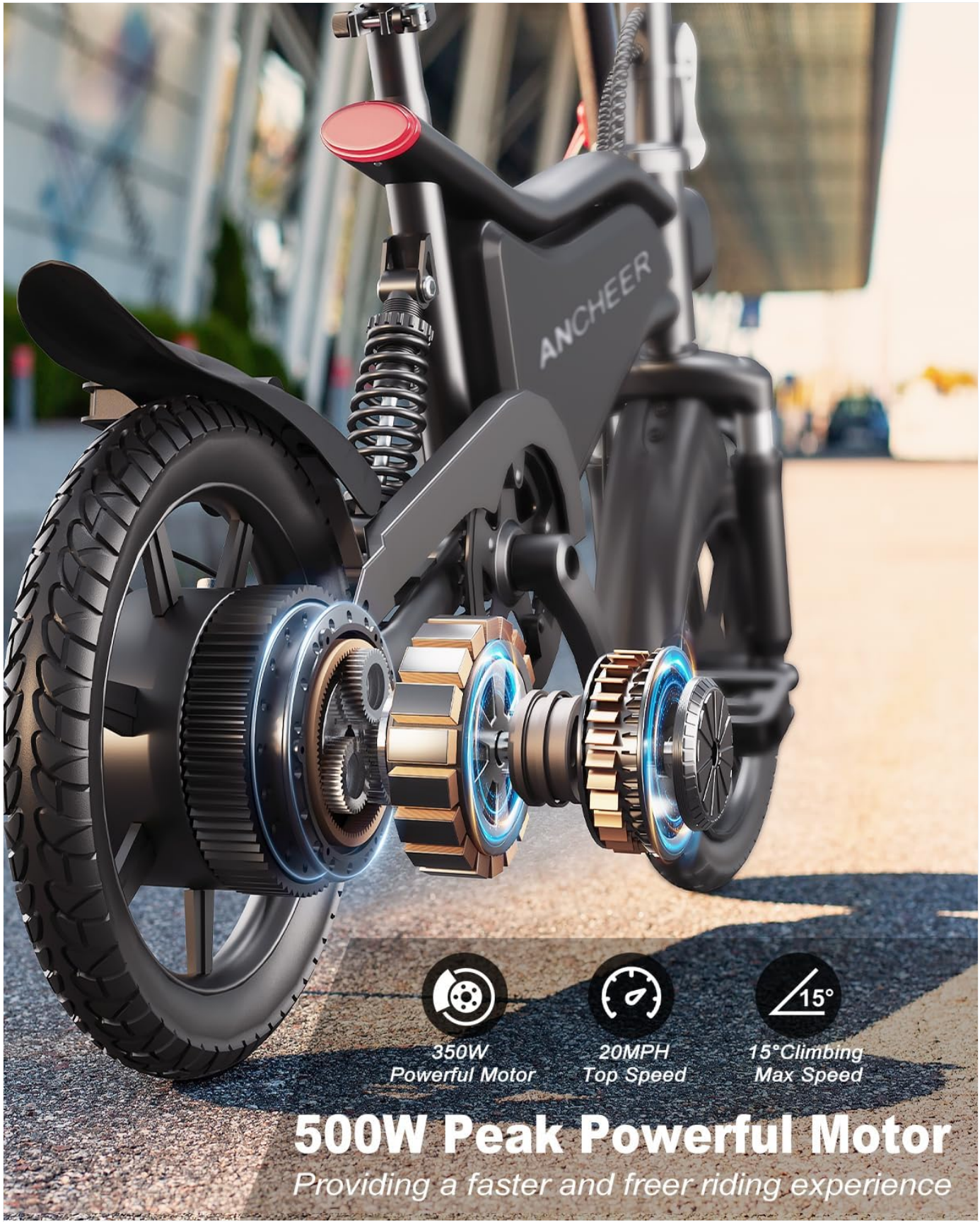


Figure 3.1: Close-up view of the e-bike's rear wheel and motor assembly, highlighting the 500W peak powerful motor designed for efficient propulsion.



Figure 3.2: Illustration of the 48V 7.8Ah Lithium-ion battery integrated into the frame, indicating its power-saving features, range, and charging time, along with the charge port location.



Figure 3.3: A rider demonstrating the comfort provided by the dual shock absorbers, including the suspension front fork, rear shock absorption, and saddle damping.



Figure 3.4: The folding mechanism in action, showing the e-bike compactly stored in a car trunk, emphasizing its portability.



Figure 3.5: Detailed view of the front and rear dual disc brakes, illustrating the braking system for enhanced safety and control.

4. Setup

Your ANCHEER electric bicycle arrives 95% pre-assembled. Follow these steps for final setup and initial preparation.

4.1 Unpacking and Initial Assembly

1. Carefully remove the bicycle from its packaging.
2. Unfold the bicycle frame and secure the folding mechanism.
3. Attach the handlebars and pedals using the provided tool kit.
4. Adjust the seat height to a comfortable and safe position, ensuring the seat post remains below the maximum extension safety line.

4.2 Initial Battery Charging

Before your first ride, fully charge the battery. Connect the charger to the e-bike's charging port and then to a power outlet. The indicator light on the charger will change when charging is complete (typically 5-6 hours for a full charge).

5. Operating Instructions

Understand the different riding modes and controls to operate your ANCHEER e-bike effectively.

5.1 Riding Modes

Your e-bike offers three primary riding modes:

- **Throttle (E-bike) Mode:** Engage the throttle for electric power without pedaling.
- **Pedal-Assist Mode (PAS):** The motor provides assistance as you pedal. There are multiple levels of assistance.
- **Normal Bike Mode:** Ride the bicycle like a traditional bike with no electric assistance.

Additionally, a Cruise Control mode is available. Refer to the specific instructions in your user manual for how to activate and set this feature, as it is not enabled by default.



Figure 5.1: Visual representation of the four available riding modes: Cycling Mode (no assist), Pedal Assist Mode, Cruise Mode, and Electric Mode (throttle only).

5.2 LCD Display

The intuitive LCD display provides real-time information:

- Pedal-assist levels (ECO, TOUR, SPORT)
- Current speed (MPH/KMH)
- Total mileage
- Battery voltage and remaining battery life

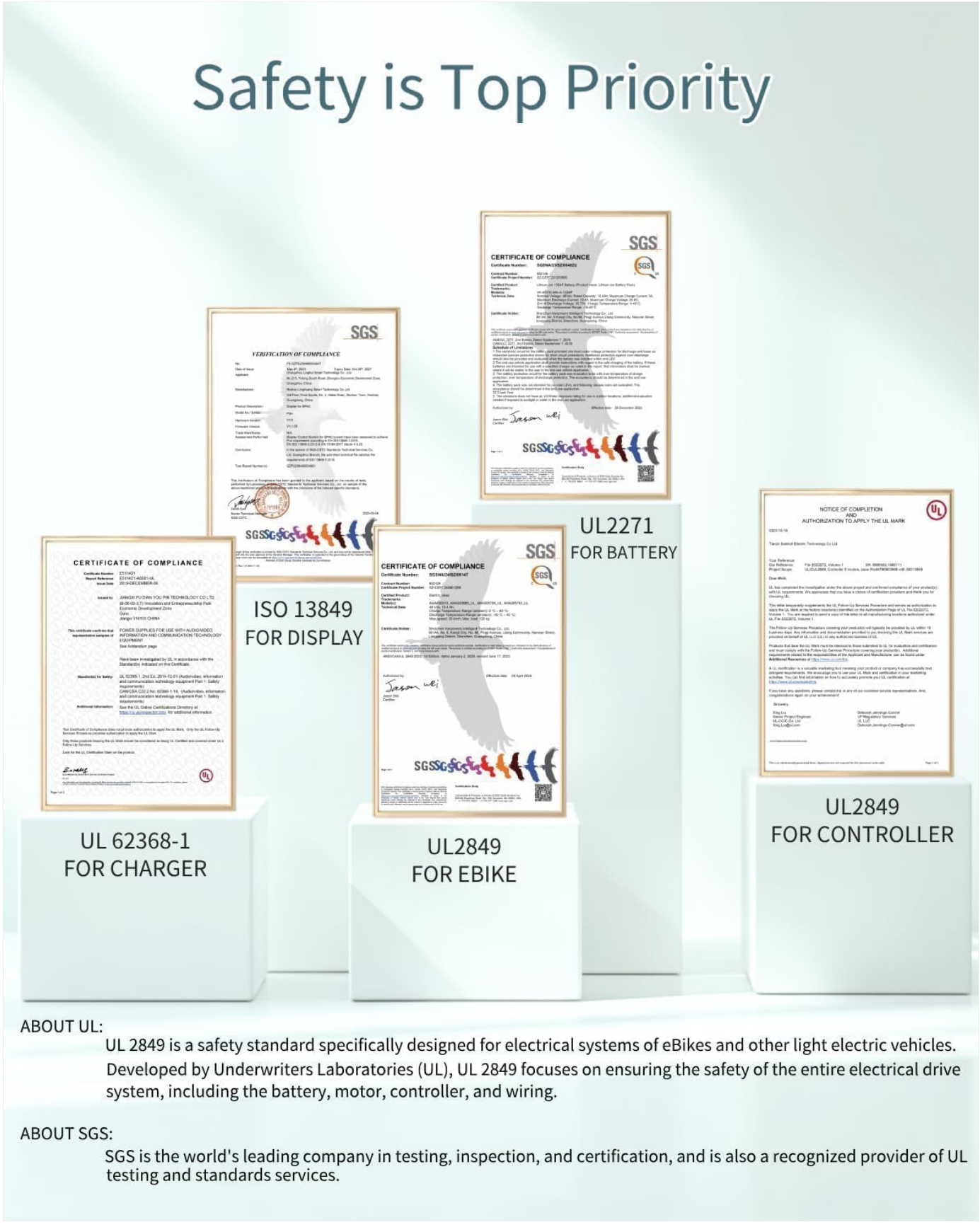


Figure 5.2: The clear LCD display mounted on the handlebars, showing real-time data such as speed, battery level, and riding mode.

5.3 Speed Limits

The e-bike features 3 levels of speed limits for both throttle and pedal-assist modes:

- **ECO:** Up to 6 mph
- **TOUR:** Up to 14 mph
- **SPORT:** Up to 22 mph

5.4 Seat Adjustment

Adjust the seat height for optimal comfort and pedaling efficiency. Ensure the seat post is inserted beyond the minimum insertion mark and does not exceed the maximum safety line indicated on the post.



Figure 5.3: Instructions for seat adjustment, emphasizing the importance of not exceeding the safety line marked on the seat post for secure riding.

6. Maintenance

Regular maintenance ensures the longevity and safe operation of your electric bicycle.

6.1 Battery Care

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

6.2 General Maintenance

- **Cleaning:** Wipe the bike with a damp cloth. Avoid high-pressure washing directly on electrical components.
- **Tires:** Check tire pressure before each ride. Ensure tires are free from punctures or damage.
- **Brakes:** Regularly inspect brake pads and discs for wear. Ensure brake levers operate smoothly and provide adequate stopping power.
- **Fasteners:** Periodically check all bolts and nuts for tightness.

7. Troubleshooting

This section addresses common issues you might encounter with your electric bicycle.

Problem	Possible Cause	Solution
Bike does not power on	Battery not charged; Loose battery connection; Power button not pressed correctly.	Charge battery fully; Ensure battery is securely seated; Press power button firmly.

Problem	Possible Cause	Solution
Reduced range/power	Low battery charge; Incorrect riding mode; Tire pressure too low; Overload.	Recharge battery; Select higher assist level; Inflate tires to recommended pressure; Reduce load.
Brakes feel weak	Worn brake pads; Loose brake cable; Air in hydraulic system (if applicable).	Inspect and replace brake pads; Adjust brake cable tension; Consult a professional for hydraulic brake service.
Motor not assisting	PAS level set to zero; Sensor issue; Loose motor connection.	Increase PAS level on display; Check for visible damage to sensors/cables; Contact customer support.

If you encounter issues not listed here or if solutions do not resolve the problem, please contact ANCHEER customer service for assistance.

8. Specifications

Detailed technical specifications for the ANCHEER 14-inch Folding Electric Bicycle.



Figure 8.1: A comprehensive diagram illustrating the key dimensions of the e-bike, including height, length, and wheel size, along with recommended user height and maximum load capacity.

Feature	Specification
Bike Type	Electric Bike
Model Name	StreetRider

Feature	Specification
Motor	350W (500W Peak) Brushless Motor
Top Speed	22 MPH
Battery	48V 7.8Ah (374.4Wh) Lithium-ion
Max Range (PAS)	15-30 Miles
Charging Time	5-6 Hours
Wheel Size	14 Inches
Frame Material	Iron
Suspension Type	Dual (Front Fork + Rear Shock Absorption)
Brake Style	Disc (Front & Rear)
Net Weight	48.5 lbs (22 kg)
Maximum Weight Recommendation	265 lbs (120 kg)
Recommended Height Range	4'6" - 5'6" (54 - 66 inches)
Included Components	Bell, Charger, Kickstand, Tool Kit
Certifications	UL2849 Compliant, UL2271 Compliant

9. Warranty and Support

ANCHEER is committed to providing quality products and customer satisfaction.

9.1 Warranty Information

Your ANCHEER electric bicycle comes with a **1-year guarantee** on the electric motor, battery, and charger from the date of purchase. This warranty covers manufacturing defects under normal use. Please retain your proof of purchase for warranty claims.

9.2 Customer Support

ANCHEER provides lifelong technical support and update services for its products. If you have any questions, require technical assistance, or need to make a warranty claim, please contact ANCHEER customer service. Our team is available to assist you.



NOTICE OF COMPLETION
AND
AUTHORIZATION TO APPLY THE UL MARK

2023-10-18

Tianjin Santroll Electric Technology Co Ltd

Your Reference:
Our Reference: File E522072, Volume 1 SR: 5865502.1480111
Project Scope: UL/CUL2849, Controller 8 models, base Pn#4780903946 with ISO13849

Dear #N/A:

UL has completed the investigation under the above project and confirmed compliance of your product(s) with UL requirements. We appreciate that you have a choice of certification providers and thank you for choosing UL.

This letter temporarily supplements the UL Follow-Up Services Procedure and serves as authorization to apply the UL Mark at the factory location(s) identified on the Authorization Page of UL File E522072, Volume 1. You are required to send a copy of this letter to all manufacturing locations authorized under UL File E522872, Volume 1.

The Follow-Up Services Procedure covering your product(s) will typically be provided by UL within 10 business days. Any information and documentation provided to you involving the UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL.

Products that bear the UL Mark must be identical to those submitted to UL for evaluation and certification and must comply with the Follow-Up Services Procedure covering your product(s). Additional requirements related to the responsibilities of the Applicant and Manufacturer can be found under **Additional Resources** at https://www.ul.com/fus.

A UL certification is a valuable marketing tool meaning your product or company has successfully met stringent requirements. We encourage you to use your UL Mark and certification in your marketing activities. You can find information on how to accurately promote your UL certification at https://www.ul.com/marketing.

If you have any questions, please contact me or any of our customer service representatives. And, congratulations again on your achievement!

Sincerely,

Xing Liu
Senior Project Engineer
UL-CCIC Co. Ltd
Xing.Liu@ul.com

Deborah Jennings-Conner
VP Regulatory Services
UL LLC
Deborah.Jennings-Conner@ul.com

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Figure 9.1: Visual representation of ANCHEER's customer support, highlighting 24-hour rapid response, free parts replacement, and a 1-year warranty.

Ask a question about this manual

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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