cysum AG1 Pro

cysum AG1 Pro Electric Tricycle User Manual

Model: AG1 Pro

1. Introduction

Thank you for choosing the cysum AG1 Pro Electric Tricycle. This manual provides essential information for the safe assembly, operation, maintenance, and troubleshooting of your new electric tricycle. Please read this manual thoroughly before using the product to ensure optimal performance and safety.

2. Safety Guidelines

Your safety is paramount. Always wear a helmet and appropriate safety gear when riding. Observe all local traffic laws and regulations. Perform a pre-ride inspection before each use, checking brakes, tire pressure, and battery level. Avoid riding in adverse weather conditions or under the influence of alcohol or drugs.

- Always wear a certified helmet.
- Ensure all components are securely fastened before riding.
- Do not exceed the maximum load capacity of 180 kg.
- Be aware of your surroundings and other road users.
- Familiarize yourself with the controls before riding in traffic.

3. Product Features

3.1 Powerful Motor and High-Capacity Battery

The AG1 Pro is equipped with a 48V rear motor, delivering a maximum torque of 80 Nm for smooth and quiet operation. The removable 48V 20Ah lithium battery provides reliable performance and an extended range of up to 80 km on a single charge, making it ideal for daily commutes and longer rides.



This image illustrates the smart display, the 48V 20Ah long-range battery, the 750W high-speed motor, and the 50kg load capacity of the rear basket.

3.2 Rear Differential for Enhanced Stability

This electric tricycle features a rear differential, which significantly improves control and stability, especially when turning. This design ensures balanced power distribution to the rear wheels, providing a safer and more comfortable riding experience.



A detailed diagram showing the rear differential, engineered for balanced power distribution and enhanced stability.

3.3 Large Front and Rear Storage Baskets

The AG1 Pro offers generous storage capacity with both front and rear baskets. The front basket can carry up to 25 kg, and the rear basket up to 50 kg, providing practical solutions for groceries, personal items, or other cargo.



The cysum AG1 Pro Electric Tricycle with its front and rear storage baskets, demonstrating their utility for carrying items.

3.4 Hydraulic Disc Brakes

For powerful and responsive stopping, the AG1 Pro is equipped with Shimano MT200 hydraulic disc brakes. These brakes ensure reliable performance and enhanced safety in various riding conditions.



A close-up of the Shimano MT200 hydraulic disc brakes, highlighting their robust design.

3.5 Smart LCD Display with NFC

The intelligent LCD display provides clear information on your speed, battery level, and assistance mode. The integrated NFC function allows for convenient unlocking of the tricycle.



The smart LCD display and the NFC unlock feature for convenient access to your tricycle.

3.6 LED Headlights and Safety Turn Signals

For improved visibility and safety, the tricycle is equipped with bright LED headlights and integrated safety turn signals, ensuring you are seen by others, especially during low-light conditions.



Detailed view of the LED headlights and safety turn signals for enhanced visibility.

3.7 Reverse Function Module

The AG1 Pro includes a reverse function module, allowing for easier maneuvering in tight spaces or when backing up.



The reverse function module in action, showing the tricycle backing up.

3.8 Durable Tires

The tricycle features 20 x 2.1 inch front tires and 16 x 3 inch rear tires, providing excellent grip and stability for various terrains, including paved roads and urban environments.



The durable tires of the AG1 Pro, built for stability and performance on diverse roads.

4. Setup

4.1 Unpacking and Initial Inspection

Carefully remove all components from the packaging. Inspect for any signs of damage during transit. Report any damage to your retailer immediately.

4.2 Assembly (if required)

While the AG1 Pro is designed to be foldable, some initial assembly may be required. Refer to the included assembly guide for detailed instructions on attaching the handlebars, pedals, and baskets. Ensure all bolts and quick-release levers are securely tightened.

4.3 Battery Installation and Charging

1. Locate the battery compartment.
2. Insert the 48V 20Ah battery and ensure it is securely locked in place.
3. Before first use, fully charge the battery using the provided charger. Connect the charger to the battery port and then to a standard power outlet. The indicator light on the charger will show charging status.
4. Once fully charged, disconnect the charger.

5. Operating Instructions

5.1 Powering On/Off

To power on the tricycle, use the NFC key or the designated power button. The LCD display will illuminate. To power off, press and hold the power button or use the NFC key again.

5.2 Riding Modes

The AG1 Pro offers three riding modes:

- **Throttle Mode:** Provides power directly via a hand throttle, similar to a scooter.

- **Pedal Assist Mode:** The motor provides assistance as you pedal, making riding easier. You can typically adjust the level of assistance.
- **Tricycle Mode:** Standard pedaling without motor assistance.

Switch between modes using the controls on the handlebar, as indicated on the LCD display.

5.3 Using the Display

The LCD display shows:

- Current Speed (km/h)
- Battery Level
- Assistance Mode
- Trip Distance

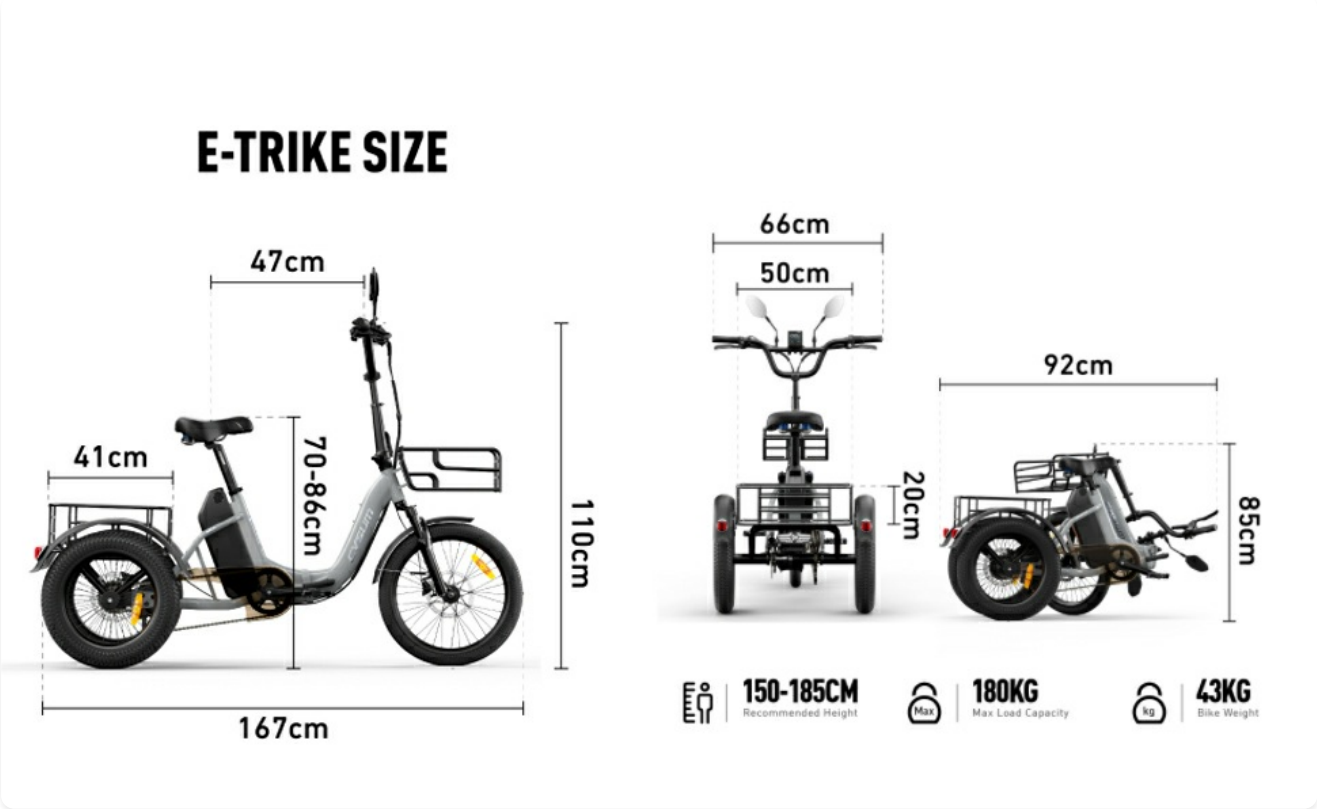
Consult the display for real-time information during your ride.

5.4 Braking

Apply both front and rear brakes simultaneously for effective stopping. The hydraulic disc brakes provide strong and consistent braking power. Practice braking in a safe, open area before riding in traffic.

5.5 Folding Mechanism

To fold the tricycle for storage or transport, locate the folding latches on the frame. Follow the instructions in the assembly guide to safely fold and unfold the tricycle. Ensure all latches are securely engaged before riding.



Dimensions of the AG1 Pro Electric Tricycle, including its folded configuration.

6. Maintenance

Regular maintenance ensures the longevity and safe operation of your cysum AG1 Pro Electric Tricycle.

- **Tires:** Check tire pressure regularly (recommended pressure is usually printed on the tire sidewall). Inspect for wear and tear or punctures.
- **Brakes:** Periodically check brake pads for wear and ensure brake levers operate smoothly. If braking performance decreases, have them inspected by a qualified technician.
- **Battery:** Store the battery in a cool, dry place. Avoid fully discharging the battery for extended periods. Charge it regularly, even if not in use, to maintain battery health.
- **Frame and Fasteners:** Regularly inspect the frame for cracks or damage. Ensure all bolts, nuts, and quick-release mechanisms are tight.
- **Cleaning:** Clean the tricycle with a damp cloth. Avoid using high-pressure washers directly on electrical components.

7. Troubleshooting

This section addresses common issues you might encounter with your AG1 Pro Electric Tricycle.

Problem	Possible Cause	Solution
Tricycle does not power on	Battery not charged; Battery not properly installed; Power button not pressed correctly.	Charge the battery; Ensure battery is fully inserted and locked; Press and hold the power button.
Motor not assisting	Battery low; Pedal assist level set to zero; Sensor issue.	Charge the battery; Increase pedal assist level on the display; Contact support if issue persists.
Brakes feel weak	Worn brake pads; Air in hydraulic line; Brake cable loose.	Inspect and replace brake pads; Have brakes bled by a technician; Adjust brake cable tension.
Unusual noises during operation	Loose components; Lack of lubrication; Component wear.	Check all fasteners; Lubricate moving parts (chain, pivots); Inspect for worn components and replace if necessary.

If you encounter problems not listed here or if solutions do not resolve the issue, please contact customer support.

8. Specifications

Feature	Detail
Model Name	AG1 Pro
Bike Type	Electric Tricycle
Age Range	Adult
Brand	cysum
Number of Speeds	1
Color	Black
Wheel Size	16 Inches (Front: 20 x 2.1 inches, Rear: 16 x 3 inches)

Feature	Detail
Suspension Type	Fork Suspension
Included Components	Mudguards
Brake Style	Hydraulic Disc
Power Source	Electric Motor
Intended Riding Terrain	Paved Roads, Urban Terrain
Battery	48V 20Ah Lithium
Max Speed	25 km/h
Range	Up to 80 km
Max Load Capacity	180 kg
Front Basket Capacity	25 kg
Rear Basket Capacity	50 kg
Country of Origin	China

9. Warranty and Support

9.1 Manufacturer's Warranty

The cysum AG1 Pro Electric Tricycle comes with a**1-year manufacturer's warranty**. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

9.2 Customer Support

For technical assistance, warranty claims, or any questions regarding your cysum AG1 Pro Electric Tricycle, please contact your retailer or the manufacturer's customer service. Refer to the product packaging or the retailer's website for contact information.