

MOONCOOL ZT-E20

MOONCOOL ZT-E20 1000W Electric Fat Tire Tricycle User Manual

Model: ZT-E20

1. SAFETY INFORMATION

Before operating your MOONCOOL ZT-E20 Electric Tricycle, please read this manual thoroughly. Failure to follow safety instructions may result in serious injury or property damage.

- Always wear a helmet and appropriate safety gear when riding.
- Familiarize yourself with local laws and regulations regarding electric bicycles and tricycles.
- Perform a pre-ride inspection before each use, checking brakes, tires, and battery.
- Do not exceed the maximum payload capacity of 400 lbs (181 kg).
- Avoid riding in adverse weather conditions or on excessively rough terrain.
- Ensure the battery is securely locked in place before riding.

2. PRODUCT OVERVIEW

The MOONCOOL ZT-E20 is a robust electric fat tire tricycle designed for adults, offering stability and power across various terrains. It features a 1000W peak power motor, a long-range battery, and a comfortable ride experience.

COMFORTABLE RIDE ON ANY TERRAIN

With Fat Tires, Suspension Fork & Backrest Seat



1000W PEAK POWER

500W MOTOR

43NM TORQUE

16MPH SPEED

40° SLOPE



Image: A rider enjoying the MOONCOOL ZT-E20 Electric Tricycle on a grassy path, highlighting its all-terrain capabilities with fat tires and front suspension. Key features like 1000W peak power, 500W motor, 43Nm torque, 16MPH speed, and 40-degree slope capability are displayed.



Image: Close-up views of the MOONCOOL ZT-E20 Electric Tricycle's components, including the 48V 14.5Ah battery with 7-9 hour charging time and 3-year protection, 7-speed derailleur, aluminum frame, 500W strong motor, 20x4 inch fat tires, front suspension, safe disc brakes, and LED lights.

3. WHAT'S IN THE BOX

Your MOONCOOL ZT-E20 Electric Tricycle package includes the following components:

- MOONCOOL ZT-E20 Tricycle (65% pre-assembled)
- 48V 14.5Ah Lithium-ion Battery
- 110-240V Charger
- Front Basket
- Rear Basket
- Headlight
- Taillight
- Horn
- Fenders (Front and Rear)
- Pedals
- Assembly Tools (Allen wrenches, wrench)

Accessory Gift Pack

 Availability may vary. While supplies last.



Rearview Mirrors



Phone Holder



Front Storage Bag



Water Bottle

Image: An accessory gift pack showing rearview mirrors, a phone holder, a front storage bag, and a water bottle, which may be included with the tricycle.

4. SETUP GUIDE

The MOONCOOL ZT-E20 arrives 65% pre-assembled. Follow these steps to complete the assembly:

4.1. Unboxing & Initial Inspection

- Carefully remove all components from the packaging.
- Check for any shipping damage or missing parts. Contact customer support if issues are found.

4.2. Rear Axle and Wheels Assembly

- Attach the rear derailleur to the rear axle frame using the provided tools.
- Mount the rear wheels onto the axle, securing them with nuts and nut caps. Ensure they are tightened properly.

4.3. Handlebar and Stem Adjustment

- Insert the handlebar stem into the front fork tube.
- Adjust the handlebar height to a comfortable position and secure it using the quick-release lever.

4.4. Chain Installation

- Route the chain through the front chainring, rear cassette, and derailleur.
- Connect the chain ends using the chain magic buckle.

4.5. Fenders and Reflectors

- Attach the rear fenders to the tricycle frame above the rear wheels.
- Install the rear reflectors onto the fenders.

4.6. Pedals Installation

- Identify the left (L) and right (R) pedals.
- Thread the pedals into the crank arms. The left pedal is reverse-threaded. Tighten securely with a wrench.

4.7. Brake Adjustment

- Ensure brake cables are properly routed and connected to the calipers.
- Adjust cable tension for optimal braking performance.

4.8. Front Basket and Headlight

- Mount the front basket to the designated points on the front frame.
- Attach the headlight to the front basket and connect its wiring.

4.9. Rear Basket Assembly

- Assemble the wire mesh panels of the rear basket.
- Secure the assembled basket to the rear rack using the provided gaskets and screws.

4.10. Seat Installation

- Attach the seat to the seat post.
- Insert the seat post into the frame and adjust the height using the quick-release clamp.

4.11. Wheel Reflectors

- Install the white reflectors onto the spokes of the front and rear wheels.

4.12. Battery Installation

- Slide the battery into its compartment on the frame.
- Lock the battery in place using the provided key.

4.13. Tire Inflation

- Inflate tires to the recommended pressure indicated on the tire sidewall.

Video: A detailed quick start guide for unboxing and assembling the MOONCOOL Fat20 E-Trike, demonstrating step-by-step installation of components like the rear axle, wheels, handlebars, chain, fenders, pedals, baskets, and seat.

5. OPERATING INSTRUCTIONS

5.1. Powering On/Off

- To power on the tricycle, press and hold the power button on the LED display.
- To power off, press and hold the power button again.

5.2. Pedal Assist (PAS) Modes

- The tricycle offers 3 levels of pedal assist. Use the '+' and '-' buttons on the display to cycle through PAS levels.
- Higher PAS levels provide more motor assistance while pedaling.

5.3. Throttle Operation

- The twist throttle on the right handlebar provides power on demand without pedaling.
- Twist the throttle towards you to accelerate. Release to decelerate.

5.4. Headlight and Taillight Operation

- To turn on the headlight, long press the '+' button on the LED display.
- The taillight activates automatically with the headlight and brightens when brakes are applied.

5.5. Horn and Turn Signals

- The horn button is located on the left handlebar. Press to sound the horn.
- Turn signal buttons are also on the left handlebar. Press the left or right arrow to activate the corresponding signal.

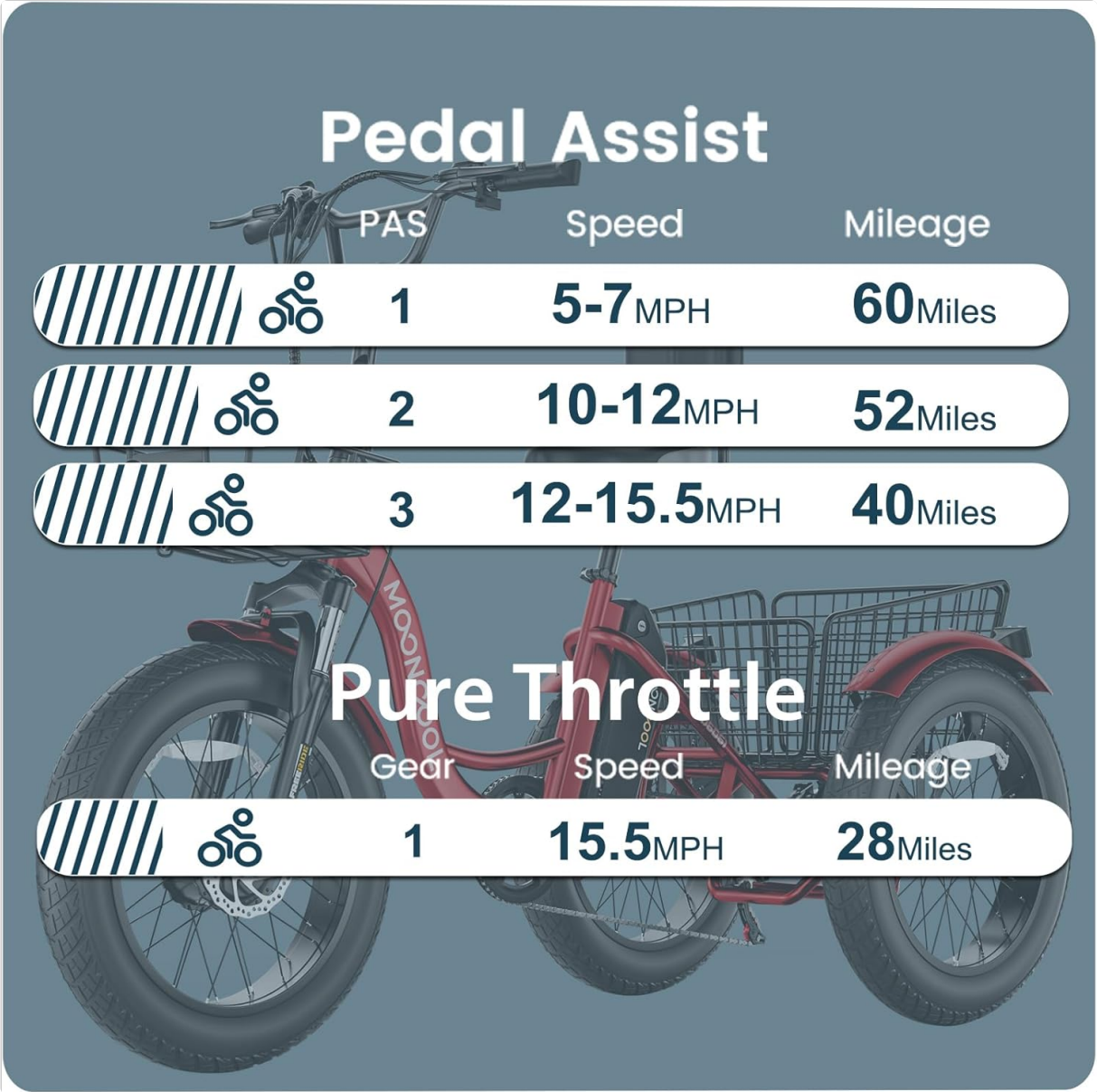
5.6. Braking and Parking Brake




- Apply both brake levers for effective stopping. The tricycle is equipped with dual disc brakes.
- To engage the parking brake, squeeze the brake lever fully and push the small lever on the brake handle inwards. Release by squeezing the brake lever again.

5.7. Folding Mechanism

- To fold the handlebar stem, release the quick-release lever on the stem and fold it down.
- To fold the main frame, locate the folding latch on the frame, release it, and fold the tricycle in half.
- The front wheel can be removed via a quick-release mechanism for more compact storage.

Pedal Assist



	PAS	Speed	Mileage
	1	5-7 MPH	60 Miles
	2	10-12 MPH	52 Miles
	3	12-15.5 MPH	40 Miles

Pure Throttle

	Gear	Speed	Mileage
	1	15.5 MPH	28 Miles

Image: A table illustrating the performance of the MOONCOOL ZT-E20 Electric Tricycle in Pedal Assist (PAS) and Pure Throttle modes. PAS levels 1-3 show speeds from 5-15.5 MPH and ranges from 40-60 miles. Pure Throttle mode shows a speed of 15.5 MPH and a range of 28 miles.

6. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your tricycle.

6.1. Battery Care

- Charge the battery fully (7-9 hours) after each ride or when the battery indicator is low.
- Store the battery in a cool, dry place. If storing for extended periods, charge it to 50-70% every 2-3 months.
- Use only the provided charger.

6.2. Tire Pressure

- Check tire pressure before each ride. Maintain pressure within the range specified on the tire sidewall.

6.3. Brake Inspection

- Regularly inspect brake pads for wear and replace them when necessary.
- Ensure brake levers operate smoothly and provide adequate stopping power.

6.4. Chain Lubrication

- Keep the chain clean and lubricated to ensure smooth gear changes and prevent rust.

6.5. General Cleaning

- Clean the tricycle with a damp cloth. Avoid using high-pressure water jets directly on electrical components.

7. TROUBLESHOOTING

If you encounter any issues, refer to this section before contacting customer support.


Problem	Possible Cause	Solution
Tricycle does not power on	Battery not charged or not installed correctly; Power button not pressed long enough.	Charge battery; Ensure battery is fully inserted and locked; Press and hold power button for 3-5 seconds.
Motor not assisting/working	Low battery; PAS level set to 0; Brake levers engaged.	Charge battery; Increase PAS level; Release brake levers.
Brakes feel weak	Worn brake pads; Loose brake cable.	Inspect and replace brake pads; Adjust brake cable tension.
Unusual noises from drivetrain	Dry chain; Misaligned derailleur.	Lubricate chain; Adjust derailleur (consult a professional if unsure).

8. SPECIFICATIONS


Feature	Detail
Model Number	ZT-E20
Bike Type	Electric Tricycle
Motor	500W (Peak 1000W) Front Hub Brushless Motor
Battery	48V 14.5Ah Lithium-ion (696 Wh)
Max Speed	15.5 MPH
Range per Charge	35-60 miles
Charging Time	7-9 hours
Tires	20" x 4.0" Fat Tires
Frame Material	Aluminum Alloy
Suspension	Front Suspension
Gears	7-Speed Transmission

Feature	Detail
Brakes	Dual Disc Brakes
Max Payload	400 lbs
Recommended Rider Height	5'0" - 6'3"
Display	Clear LED Display

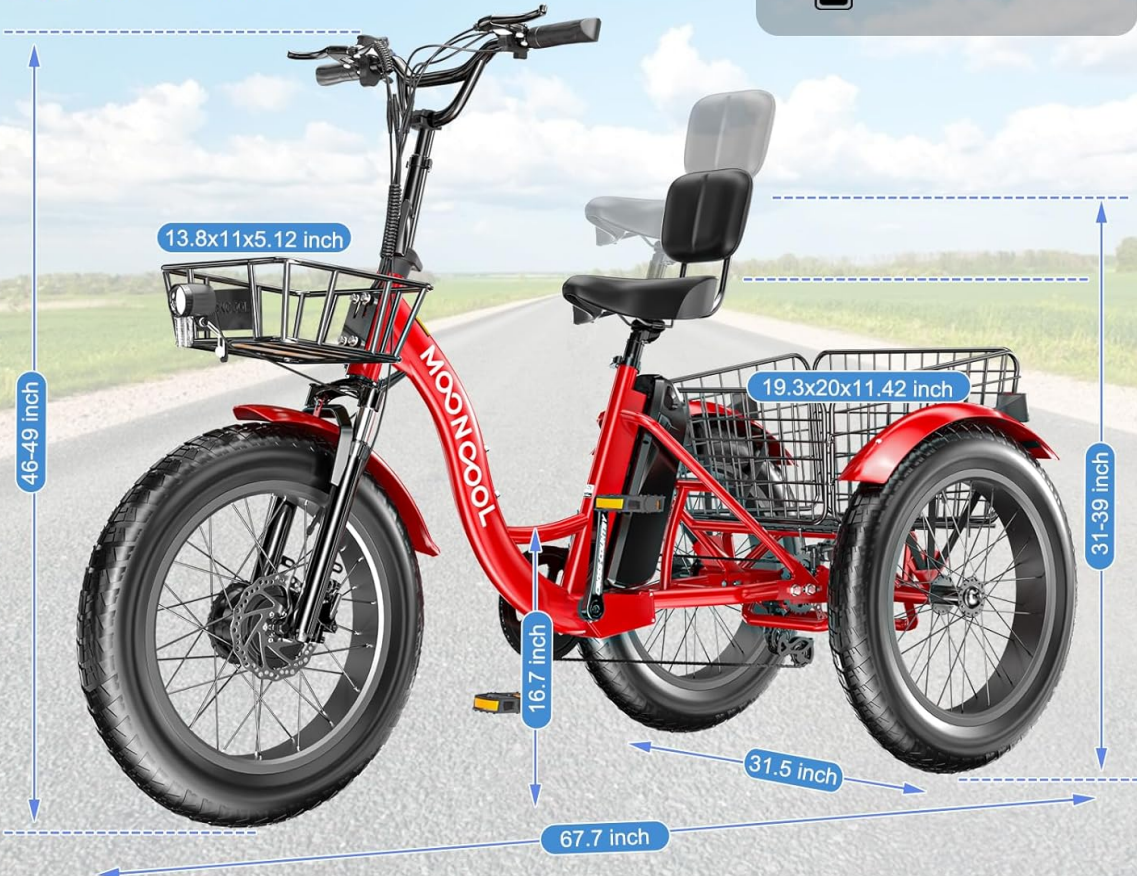
65% PRE-ASSEMBLED & FULL SUPPORT



RECOMMENDED HEIGHT
5'0"-6'3"



LOAD CAPACITY
400LBS



- Lifetime Aluminum Frame
- 1-YEAR FOR DEFECTIVE PARTS
- 3-YEAR PROTECTION FOR BATTERY

Image: Detailed dimensions of the MOONCOOL ZT-E20 Electric Tricycle, including height, length, and basket sizes. Also highlights 65% pre-assembly, lifetime aluminum frame warranty, 1-year defective parts warranty, and 3-year battery protection.

9. WARRANTY

The MOONCOOL ZT-E20 Electric Fat Tire Tricycle comes with the following warranty:

- **Frame:** Lifetime warranty on the aluminum frame.
- **Defective Parts:** 1-year warranty for defective parts.

- **Battery:** 3-year protection for the battery.

10. SUPPORT

For further assistance, technical support, or warranty claims, please contact MOONCOOL customer service through the retailer where you purchased the product or visit the official MOONCOOL website.

Video: A brief overview of the Mooncool 4" Fat Tire Electric Tricycle, showcasing its design and features in motion.

Video: A 3D display of the 20-inch fat tire electric tricycle, providing a comprehensive visual tour of the product from various angles.