



Manuals.plus /

› Tamobyke /

› Tamobyke V20 Electric Bike User Manual

## Tamobyke V20-BK

# Tamobyke V20 Electric Bike User Manual

Model: V20-BK

[Overview](#)

[Safety](#)

[Features](#)

[Setup](#)

[Operation](#)

[Maintenance](#)

[Troubleshooting](#)

[Warranty &](#)

[Support](#)

[Specifications](#)

## 1. OVERVIEW

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Welcome to the user manual for your Tamobyke V20 Electric Bike. The V20 is a robust and versatile moped-style e-bike designed for adults, featuring a powerful 1500W brushless motor and 20"x4.0 fat tires. It is engineered to provide an exhilarating and comfortable riding experience across various terrains, including snow, beach, mountain trails, and city roads. This manual provides essential information for the safe operation, assembly, maintenance, and troubleshooting of your electric bicycle.



Figure 1.1: The Tamobyke V20 Electric Bike, showcasing its robust design and included accessories.

## 2. SAFETY INFORMATION

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Your safety is paramount. Please read and understand all safety instructions before operating the Tamobyke V20.

- Always wear a certified helmet and appropriate safety gear when riding.
- Familiarize yourself with local traffic laws and regulations regarding electric bicycles.
- Perform a pre-ride inspection before each use, checking brakes, tires, battery, and lights.
- The V20 is equipped with **dual disc brakes** for superior stopping power. Ensure they are functioning correctly.
- The bike features **front LED lights and IP54 waterproof protection**, allowing for safe riding in various conditions. However, avoid submerging the bike in water.
- Be aware of your surroundings and ride defensively.
- Do not exceed the maximum load capacity of 350 pounds (150 kg).
- Ensure the battery is securely locked in place before riding.

# HEADLIGHT AND TAILLIGHT

Ensure safe riding in various road conditions



Figure 2.1: The V20's integrated headlight and taillight ensure visibility and safety in various lighting conditions.

## 3. PRODUCT FEATURES

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The Tamobyke V20 Electric Bike is packed with features designed for performance, comfort, and durability:

- **Powerful 1500W Brushless Motor:** Experience a maximum peak power of 2000W, enabling top speeds of 30-32 MPH and conquering various terrains and hills with ease.



Figure 3.1: The powerful 1500W brushless motor provides robust acceleration and climbing capabilities.

- **Long-Range 48V15AH Removable Battery:** The stylish and artistic lithium-ion battery offers a riding range of 30 to 60 miles on a single charge. It features a dual anti-theft design (key and push button locking) and is removable for convenient charging at home or office. Full charge takes approximately 6-8 hours.



Figure 3.2: The large capacity, removable 48V 15.6Ah lithium-ion battery ensures extended rides.

- **20"x4.0 Fat Tires:** These wear-resistant fat tires provide excellent traction and protection against punctures, making the V20 suitable for diverse terrains like sand, snow, and complex trails.
- **Dual Disc Brakes:** A superb braking system ensures short braking distances, enhancing safety and reliability even in challenging conditions.
- **Dual Shock Absorber System:** Featuring a refined front fork and seat post, this comprehensive shock absorption system effectively cushions road imperfections for a smooth and pleasurable ride.



Figure 3.3: The dual shock absorber system provides a comfortable ride by minimizing bumps.

- **Upgrade HD Display (H6C):** The newly upgraded H6C display provides comprehensive riding data, including battery level, speed, modes, and mileage. It has an improved waterproof rating.
- **Versatile 5 Riding Modes:**
  1. **Pure Electric Mode:** Max speed 30-32 MPH, no pedaling required.
  2. **Pedal Assist Mode:** Max speed 30 MPH, motor assists pedaling.
  3. **Cruise Control Mode:** Maintain a set speed in pure electric mode.
  4. **Walk Assist Mode:** Assists at 2.8 MPH for easy maneuvering when walking alongside the bike.
  5. **Classic Bicycle Mode:** Power off, normal bike pedaling.

# 4 RIDING MODE



## BIKE MODE

Power off,  
normal bike, just pedaling



## PEDAL-ASSIST MODE

Power on,  
without the throttle just pedaling



## CRUISE CONTROL MODE

In the pure electric mode,  
press the power switch on the dashboard



## THROTTLE MODE

Power on,  
no need to pedal, just throttle



Figure 3.4: The display illustrates the various riding modes available on the V20.

- **7-Speed Shifter Gear:** Ensures seamless and precise gear transitions for an optimized cycling experience.
- **Sturdy Carbon Steel Frame:** Built with a robust frame that can support up to 350 pounds.

# EASILY TACKLE EXTREME TERRAIN

Add further safety, control, and confidence for riders of all experience levels on/off-road in variable traction conditions.



Figure 3.5: The V20 is designed to easily tackle extreme terrains, providing safety and control.

## 4. SETUP AND ASSEMBLY

Your Tamobyke V20 Electric Bike is delivered 90% pre-assembled. The remaining assembly steps are straightforward and can be completed with basic tools.

### Required Tools:

- Included toolkit (if provided)
- Adjustable wrench
- Hex key set

### Assembly Steps:

1. **Install the Front Wheel:** Carefully align the front wheel with the fork dropouts. Ensure the brake rotor is

correctly seated within the brake caliper. Secure the wheel using the quick-release skewer or axle nuts.

2. **Attach the Handlebars:** Insert the handlebar stem into the fork steerer tube. Adjust the height and angle for comfortable riding, then tighten the stem bolts securely. Ensure the display and control panel cables are not pinched.
3. **Install Pedals/Footrests:** Identify the left (L) and right (R) pedals. The left pedal threads counter-clockwise, and the right pedal threads clockwise. Apply a small amount of grease to the threads and tighten them firmly.
4. **Install the Seat Post:** Insert the seat post into the frame's seat tube. Adjust the seat height to ensure your feet can comfortably touch the ground when stopped, then secure the quick-release clamp.
5. **Check All Connections:** Before your first ride, double-check all bolts, nuts, and quick releases to ensure they are properly tightened. Verify that the brake levers are firm and the tires are inflated to the recommended pressure.

For detailed visual instructions, refer to the assembly video (if available) or the included pictorial guide.

## 5. OPERATING INSTRUCTIONS

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### 5.1. Battery Charging

- Ensure the bike is turned off before charging.
- The battery can be charged while installed on the bike or removed.
- Connect the charger to the battery charging port, then plug the charger into a standard wall outlet.
- The charging indicator light on the charger will typically turn red during charging and green when fully charged.
- A full charge takes approximately 6-8 hours. Do not overcharge the battery.

### 5.2. Powering On/Off

- To power on the bike, press and hold the power button on the H6C display until the display illuminates.
- To power off, press and hold the power button again until the display turns off.

### 5.3. Using the H6C HD Display

The H6C display provides real-time information about your ride. It shows:

- Battery Level Indicator
- Current Speed
- Selected Riding Mode (PAS level)
- Mileage (Odometer/Trip)
- Error Codes (if any)

Use the control panel buttons next to the display to navigate through modes and settings.

### 5.4. Riding Modes

The Tamobyke V20 offers five versatile riding modes:

1. **Pure Electric Mode (Throttle Mode):** Engage the throttle on the handlebar to propel the bike without pedaling. Ideal for quick acceleration or cruising. Max speed 30-32 MPH.
2. **Pedal Assist Mode (PAS):** The motor provides assistance as you pedal. There are typically 1-5 levels of pedal assist, allowing you to control the amount of motor power. Max speed 30 MPH.

3. **Cruise Control Mode:** While in pure electric mode, activate cruise control to maintain a consistent speed without holding the throttle. Refer to the display manual for activation steps.
4. **Walk Assist Mode:** When walking alongside the bike, activate this mode to provide a low-speed assist (approx. 2.8 MPH), making it easier to push the bike up inclines or through crowded areas.
5. **Classic Bicycle Mode:** With the power off, the V20 functions as a traditional bicycle, relying solely on your pedaling power.

## 5.5. Using the 7-Speed Shifter

The 7-speed shifter allows you to adjust your pedaling effort to match terrain and speed.

- Use higher gears (larger numbers) for faster speeds or downhill riding.
- Use lower gears (smaller numbers) for easier pedaling on inclines or when starting from a stop.
- Shift gears smoothly and avoid shifting under heavy load.

## 6. MAINTENANCE

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Regular maintenance ensures the longevity and optimal performance of your Tamobyke V20.

### 6.1. Battery Care

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

### 6.2. Tire Maintenance

- Check tire pressure before each ride. Refer to the tire sidewall for recommended PSI. Fat tires typically require lower pressure than standard bike tires.
- Inspect tires for wear, cuts, or embedded objects.

### 6.3. Brake System

- Regularly check brake pads for wear and replace them when necessary.
- Ensure brake levers feel firm and responsive. Adjust cable tension if needed.
- Keep brake rotors clean and free of oil or grease.

### 6.4. General Cleaning and Lubrication

- Clean the bike regularly with a damp cloth. Avoid high-pressure washing directly on electrical components.
- Lubricate the chain periodically with bicycle-specific chain lubricant to ensure smooth shifting and prevent rust.
- Check and tighten all bolts and fasteners periodically.

## 7. TROUBLESHOOTING

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This section addresses common issues you might encounter with your Tamobyke V20.

Problem	Possible Cause	Solution
Bike does not power on.	Battery is low or not connected; power button not pressed correctly; loose electrical connection.	Charge the battery; ensure battery is fully seated and locked; press and hold power button firmly; check main power cable connections.
Motor not assisting/engaging.	Battery low; PAS level set to 0; brake levers engaged; motor cable loose; error code on display.	Charge battery; increase PAS level; ensure brake levers are fully released; check motor cable connection; consult display manual for error codes.
Brakes feel spongy or ineffective.	Worn brake pads; loose brake cable; air in hydraulic system (if applicable); contaminated rotors.	Inspect and replace brake pads; adjust brake cable tension; if hydraulic, seek professional service; clean rotors with disc brake cleaner.
Unusual noises from the bike.	Loose components; dry chain; misaligned gears; worn bearings.	Check and tighten all bolts; lubricate chain; adjust derailleur; if noise persists, seek professional inspection.
Display not working correctly.	Loose display cable; water damage; internal fault.	Check display cable connection; ensure display is dry; if issues persist, contact customer support.

If you encounter an issue not listed here or if the suggested solutions do not resolve the problem, please contact Tamobyke customer support.

## 8. SPECIFICATIONS

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Key technical specifications for the Tamobyke V20 Electric Bike:

Feature	Detail
Model Name	V20-BK
Bike Type	Electric Bike
Age Range (Description)	Adult
Brand	Tamobyke
Motor	1500W Brushless (2000W Peak)
Battery	48V 15.6Ah Lithium-ion (Removable)
Charging Time	Approx. 6-8 hours
Max Speed	30-32 MPH (Pure Electric Mode)
Riding Range	30-60 miles (depending on mode and terrain)
Wheel Size	20 Inches (20"x4.0 Fat Tires)
Frame Material	Carbon Steel
Suspension Type	Dual Suspension (Front Fork & Seat Post)
Brake Style	Dual Disc Brakes (Mechanical/Hydraulic)
Number of Speeds	7 (Shifter Gear)
Max Load Capacity	350 pounds (150 kg)
Waterproof Rating	IP54
Included Components	Lock, Toolkit (as per image)
Color	Black
Manufacturer	Tamobyke

# V20 4.0 SIZE GUIDE



Figure 8.1: Tamobyke V20 Size Guide, showing total height, total length, seat height, bike weight, max load, and recommended height.

## 9. WARRANTY AND CUSTOMER SUPPORT

Tamobyke is committed to providing excellent customer service and support for your V20 Electric Bike.

### 9.1. Warranty Information

Your Tamobyke V20 Electric Bike comes with a **1-Year Warranty** against manufacturer defects for the e-bike components. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

### 9.2. Customer Support

Our dedicated and responsive customer service team is available to assist you with any questions, concerns, or issues you may have.

- **Email Support:** For convenience, you can send images or videos to our support team at [Tamobykesporttech@163.com](mailto:Tamobykesporttech@163.com). We guarantee a response within 24 hours.
- **General Inquiries:** Please do not hesitate to reach out with any questions regarding operation, maintenance, or troubleshooting.
- **Returns:** We kindly ask that you retain the original packaging for one month in case a return is necessary.

Your satisfaction is our priority.