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VITILAN H5 Dual Motor Ebike Instruction Manual

Model: H5 | Brand: VITILAN

Keywords: VITILAN, H5, Dual Motor Ebike, 2000W, 40 MPH, 52V, 25AH, Electric Bike, Fat Tire, Commute

1. INTRODUCTION

The VITILAN H5 E-bike is a high-performance electric bicycle designed for adults, featuring a robust dual-motor system and a long-lasting battery. It is engineered for versatility, offering power and reliability across various terrains, from urban commutes to off-road trails. This manual provides essential information for the assembly, operation, maintenance, and troubleshooting of your VITILAN H5 E-bike.



Figure 1: VITILAN H5 Dual Motor Ebike

2. SAFETY INFORMATION

Always prioritize safety when operating your e-bike. Failure to follow safety guidelines can result in serious injury or damage to the bicycle.

- Always wear a helmet and appropriate safety gear.
- Familiarize yourself with local traffic laws and regulations regarding electric bicycles.
- Perform a pre-ride inspection before each use, checking brakes, tires, battery, and all connections.
- Do not operate the e-bike under the influence of alcohol or drugs.
- Avoid riding in adverse weather conditions, such as heavy rain, snow, or ice.
- Ensure the battery is securely locked in place before riding.
- Do not modify the e-bike's electrical system or components.

3. SETUP AND ASSEMBLY

The VITILAN H5 E-bike requires some assembly. Please follow the steps below carefully. For a visual guide, refer to the assembly video provided.

Your browser does not support the video tag.

Video 1: VITILAN H5 E-bike Assembly Guide (Duration: 6:01)

This video provides a comprehensive step-by-step guide for assembling your new VITILAN H5 E-bike, covering everything from unboxing to final checks.

Assembly Steps:

1. **Unboxing and Inspection:** Carefully remove all components from the packaging. Inspect for any damage during transit. Ensure all parts listed in the packing list are present.
2. **Handlebar Stem Installation:** Install the handlebar stem onto the fork steerer tube. Secure the top cap and then tighten the side screws to fix the stem in place.
3. **Handlebar Attachment:** Remove the faceplate from the stem. Position the handlebar, ensuring it is centered, and then reattach the faceplate, tightening the bolts evenly.
4. **Rear Fender and Rack Installation:** Secure the rear fender to the designated mounting points on the frame. Install the rear cargo rack, ensuring it is stable, and connect the taillight cable. Use zip ties to manage excess cables neatly.
5. **Front Wheel Installation:** Turn the bicycle upside down or use a stand. Carefully align the front wheel with the fork dropouts, ensuring the brake rotor slides correctly into the caliper. Secure the axle nuts. Remember to remove any protective spacers from the brake caliper before installation.
6. **Front Fender and Headlight Installation:** Attach the front fender to the fork. Mount the headlight to the front of the fork and connect its power cable.
7. **Pedal Installation:** Identify the left (L) and right (R) pedals. The left pedal tightens counter-clockwise, and the right pedal tightens clockwise. Apply a small amount of grease to the pedal threads before installation.
8. **Battery Installation:** Insert the battery securely into its frame mount. Ensure it clicks into place and is locked with the key provided.
9. **Phone Holder Installation:** Install the custom phone holder on the handlebar and connect its charging cable.
10. **Final Checks:** Double-check all bolts and connections for tightness. Ensure brakes are functioning correctly and tires are inflated to the recommended pressure.

4. OPERATING INSTRUCTIONS

Your VITILAN H5 E-bike offers multiple riding modes and intuitive controls for a customized experience.

4.1 Powering On/Off

- **To Power On:** Turn the key to unlock the battery (if applicable), then press and hold the power button on the battery or the display control panel.

- **To Power Off:** Press and hold the power button on the display control panel until the display turns off.

4.2 Display and Controls

The smart LCD display provides real-time information about your ride.



Figure 2: E-bike handlebar controls and color LCD display.

- **Power Button:** Turns the system on/off.
- **+/- Buttons:** Adjust pedal assist levels (PAS) from 1 to 5.
- **Light Button:** Toggles the headlight and taillight on/off.
- **Information Button (i):** Cycles through trip odometer, total mileage, and average speed.
- **Horn Button:** Activates the horn.
- **Single/Dual Motor Switch:** Allows switching between single motor (rear wheel) and dual motor (all-wheel drive) operation.

4.3 Riding Modes

The VITILAN H5 offers 6 different riding modes:

- **Dual Motor Electric:** Full electric power from both motors.
- **Single Motor Electric:** Full electric power from one motor (typically rear).
- **Pedal Assist (PAS):** Motor provides assistance as you pedal (levels 1-5).
- **Cruise Mode:** Maintains a set speed without pedaling or throttle input.
- **Pedal Mode:** Ride like a traditional bicycle with no motor assistance.
- **Walking Mode:** Provides low-speed assistance for walking the bike.



Figure 3: Visual representation of the 6 riding modes.

4.4 Shifting Gears

The e-bike is equipped with a Shi-mano 7-speed gearing system for optimal pedaling efficiency.

- Use the thumb shifter on the right handlebar to change gears.
- Shift to lower gears (1-3) for climbing hills or starting from a stop.
- Shift to higher gears (5-7) for faster speeds on flat terrain.

4.5 Braking System

The VITILAN H5 features hydraulic disc brakes for reliable stopping power.

- Apply both brake levers simultaneously for balanced and effective braking.
- Avoid sudden, hard braking, especially at high speeds or on loose surfaces.



Figure 4: Safety features including hydraulic disc brakes and lighting.

5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your VITILAN H5 E-bike.

5.1 Battery Care

- Charge the battery fully before the first ride and after each use.

- Use only the original charger provided with the e-bike.
- Do not expose the battery to extreme temperatures (hot or cold).
- Store the battery in a cool, dry place if not used for extended periods, and charge it every 1-2 months.

5.2 Tire Maintenance

- Check tire pressure before each ride. The recommended pressure for 24" x 4.0" fat tires is typically between 5-30 PSI, depending on terrain and rider weight. Refer to the tire sidewall for exact specifications.
- Inspect tires for wear, cuts, or punctures regularly.

5.3 Brake System

- Regularly check brake pads for wear and replace them when necessary.
- Ensure brake levers are firm and responsive. If they feel spongy, the hydraulic system may need bleeding by a qualified technician.

5.4 General Upkeep

- Keep the e-bike clean, especially after riding in wet or muddy conditions. Use a damp cloth and mild soap. Avoid high-pressure washing directly on electrical components.
- Lubricate the chain regularly to ensure smooth operation and prevent rust.
- Periodically check all nuts and bolts for tightness.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your VITILAN H5 E-bike.

Problem	Possible Cause	Solution
E-bike does not power on.	Battery not charged, battery not properly seated, power button not pressed correctly, battery lock engaged.	Charge battery, ensure battery is fully inserted and locked, press power button firmly, check battery key position.
Motor not assisting.	Low battery, PAS level set to 0, brake levers engaged, motor connection loose.	Check battery level, increase PAS level, release brake levers, check motor cable connections.
Brakes feel weak or spongy.	Worn brake pads, air in hydraulic lines, low brake fluid.	Inspect and replace brake pads, have hydraulic system bled by a professional.
Unusual noises from drivetrain.	Dry chain, misaligned derailleur, loose components.	Lubricate chain, adjust derailleur (refer to Shimano guide), check for loose bolts.

7. SPECIFICATIONS

Detailed technical specifications for the VITILAN H5 Dual Motor Ebike.

Feature	Specification
Bike Type	Electric Bike
Brand	VITILAN
Model Name	H5
Motor Type	Dual Geared Hub Motors (2 x 1000W, Peak 3000W)
Battery	52V 25AH (1300 Watt Hours)
Top Speed	Up to 40 MPH
Range	Approx. 40-50 miles per charge
Frame Material	Waterproof 6061 Aluminum Alloy
Tires	24" x 4.0" Fat Tires
Brakes	Hydraulic Disc Brakes
Gearing	Shi-mano 7-speed
Suspension	Mechanical Spring Fork (Front Fork)
Item Weight	80 Pounds (including battery)
Maximum Weight Recommendation	330 Pounds
Minimum User Height	5.3 Feet
Special Features	Digital Display, Adjustable Seat, Headlight, Taillight, Phone Holder

8. WARRANTY AND SUPPORT

Your VITILAN H5 E-bike is backed by a 1-year comprehensive warranty, ensuring your satisfaction and peace of mind.

- **Warranty Coverage:** 1-year comprehensive warranty from the date of purchase. This covers manufacturing defects and significant component failures under normal use.
- **Quality Assurance:** Every VITILAN H5 e-bike undergoes strict quality testing for pedal assist sensitivity, throttle responsiveness, and charging reliability.
- **Customer Support:** For any questions, technical assistance, or warranty claims, please contact VITILAN customer support. Professional consultation and after-sales service are available to address your concerns quickly.
- **Contact Information:** Please refer to the contact details provided on the VITILAN official website or your

purchase documentation.

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