

EVTSCAN EVTSCAN61kvt3sw2m

EVTSCAN Electric Bike Conversion Kit User Manual

Model: EVTSCAN61kvt3sw2m

1. INTRODUCTION

Thank you for choosing the EVTSCAN Electric Bike Conversion Kit. This manual provides essential information for the safe and efficient installation, operation, and maintenance of your new electric bike conversion system. Please read this manual thoroughly before attempting installation or use to ensure proper function and to prevent damage to the product or injury.

Safety Precautions: Always wear appropriate safety gear when working with electrical components and operating an electric bicycle. Ensure all connections are secure and waterproof where necessary. Disconnect power before performing any maintenance or installation steps.

2. PRODUCT OVERVIEW

The EVTSCAN Electric Bike Conversion Kit is designed to convert standard bicycles into electric bicycles, compatible with 500W to 750W motors. The kit includes the following main components:

- **26A 3-Mode Sine Controller:** Manages motor power and system functions.
- **GD01 Panel:** Display unit for monitoring riding data and system status.
- **130X Thumb Throttle Dial:** Provides acceleration control.
- **Power Off Sensor:** Detects braking to cut motor power.
- **Power Assist Sensor (PAS):** Provides motor assistance based on pedaling.
- **Controller Storage Bag:** For protecting and mounting the controller.



Figure 2.1: All components of the EVTSCAN Electric Bike Conversion Kit.



Figure 2.2: The GD01 display panel, showing its screen and control buttons.



Figure 2.3: The 130X thumb throttle for speed control.

3. SPECIFICATIONS

Controller Parameters:

Material	Aluminum alloy
Current	$26 \pm 1A$
Voltage	DC 24V / 36V / 48V
Speed Setting	1.1-4.2V
Brake Input	Low level
Applicable Motor	500W - 750W

GD01 Panel Parameters:

Material	ABS, Acrylic
Applicable Handlebar	22.2mm diameter
Voltage	24V / 36V / 48V

Display Functions	Speed, Power Assisted Gear, Power Indicator, Fault Prompt, Total Mileage, Single Mileage, Headlight Display
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4. SETUP AND INSTALLATION

Careful installation is crucial for the proper functioning of your electric bike. Follow these steps:

4.1 Controller Installation

1. Mount the controller securely on your bike frame, preferably within the provided storage bag. Ensure it is protected from water and physical impact.
2. Refer to the wiring diagram (Figure 4.1) for connecting the controller to the motor, battery, display panel, throttle, power assist sensor, and brake sensors. Match the connectors carefully.



Figure 4.1: Detailed wiring diagram for the 26A 3-mode controller. Ensure all connections are made correctly according to the labels.



Figure 4.2: Close-up view of the controller's various wiring connectors.

4.2 GD01 Panel and Thumb Throttle Installation

1. Install the GD01 panel and 130X thumb throttle on your bicycle's handlebar. Both are designed for 22.2mm diameter handlebars. Secure them firmly but do not overtighten.
2. Connect the GD01 panel and thumb throttle cables to the corresponding ports on the controller as shown in the wiring diagram.

4.3 Power Assist Sensor (PAS) Installation

1. Attach the power assist sensor boosting sheet to the pedal crank.
2. Mount the power assist sensor wiring unit near the boosting sheet, ensuring proper alignment for magnetic detection.
3. Connect the PAS sensor cable to the controller.

4.4 Power Off Sensor Installation

1. Install the power off sensors on your brake levers. These sensors detect when the brakes are applied and cut motor power for safety.
2. Connect the power off sensor cables to the controller.



Figure 4.3: Magnets and double-sided adhesive for power off sensors.

5. OPERATING INSTRUCTIONS

Once all components are installed and connected, you can begin operating your electric bike.

5.1 Powering On/Off

Press and hold the power button on the GD01 panel to turn the system on or off. The display will illuminate upon activation.

5.2 GD01 Panel Functions

The GD01 panel provides real-time information and control:

- **Speed Display:** Shows current riding speed.
- **Power Assisted Gear Display:** Indicates the current level of motor assistance (PAS level). Use the '+' and '-' buttons to adjust.
- **Power Indicator:** Displays remaining battery charge.
- **Fault Prompt:** Alerts to system errors with specific codes.
- **Mileage:** Shows total and single trip mileage.
- **Headlight Display:** Indicates if headlights are active (if connected through the system).

5.3 Throttle and Power Assist

The 130X thumb throttle provides direct motor power. The power assist sensor (PAS) provides assistance when you pedal, with the level of assistance adjustable via the GD01 panel.

6. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your electric bike conversion kit.

- **Inspect Connections:** Periodically check all electrical connections for tightness and corrosion. Ensure waterproof connections remain sealed.
- **Clean Components:** Keep the controller, display panel, and sensors clean from dirt and debris. Use a soft, damp cloth. Avoid harsh chemicals or direct water spray.
- **Cable Management:** Ensure all cables are neatly routed and secured to prevent snagging or damage during riding.
- **Battery Care:** Follow the manufacturer's instructions for your specific e-bike battery for charging and storage.

7. TROUBLESHOOTING

If you encounter issues, refer to the following common troubleshooting steps:

- **System Not Powering On:** Check battery connection and charge level. Ensure the GD01 panel cable is securely connected to the controller.
- **Motor Not Responding:** Verify all motor connections to the controller. Check for any fault codes on the GD01 panel. Ensure the throttle and PAS sensors are correctly installed and connected.
- **Inconsistent Power Assist:** Check the alignment and cleanliness of the power assist sensor and its magnets.
- **Brake Cut-off Not Working:** Inspect the power off sensors on the brake levers and their connections to the controller.
- **Fault Codes on GD01 Panel:** Consult the GD01 panel's specific instruction manual (if provided separately) for detailed explanations of fault codes and their remedies. Generally, fault codes indicate a specific component issue or connection problem.

If problems persist after troubleshooting, contact EVTSCAN customer support for assistance.

8. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation included with your purchase or visit the official EVTSCAN website. Keep your purchase receipt as proof of purchase for any warranty claims.

Manufacturer: EVTSCAN

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