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Viribus EBK-M025-L1

Viribus E-bike Mid-Drive Motor Conversion Kit User Manual

Model: EBK-M025-L1

1. INTRODUCTION

Thank you for choosing the Viribus E-bike Mid-Drive Motor Conversion Kit. This kit is designed to transform your standard bicycle into an electric bicycle, providing pedal assistance for a smoother and more enjoyable riding experience. This manual provides essential information for the safe installation, operation, and maintenance of your conversion kit. Please read it thoroughly before installation and keep it for future reference.



Image 1.1: Viribus Mid-Drive Motor Conversion Kit Overview

2. SAFETY INFORMATION

Your safety is paramount. Please observe the following safety guidelines:

- Always wear a helmet and appropriate safety gear when riding your e-bike.
- Ensure all connections are secure and waterproof before riding, especially after installation.
- Do not attempt to modify the motor or electrical components. Unauthorized modifications can lead to malfunction, injury, or void the warranty.

- Keep children and pets away from the e-bike during operation and charging.
- Regularly inspect your e-bike for any signs of damage, loose parts, or wear.
- The kit requires a 36V battery (not included). Use only compatible batteries and chargers.
- Adhere to local regulations regarding e-bike usage, speed limits, and safety.

3. PACKAGE CONTENTS

Carefully unpack the box and ensure all items are present and undamaged. If any items are missing or damaged, contact customer support immediately.



1 × Drosselklappe



1 × Scheinwerfer



1 × Motor



1 × Kettenblatt



1 × Bremskabel
und -sensor



1 × Geschwindigkeits-
magnet und -sensor



1 × 1T4-Kabel



1 × Bedienfeld



1 × Schrauben-
schlüssel



2 × Unterleg-
scheiben



2 × Kurbeln



2 × Bremsen-
sormagnet

Image 3.1: Packing List of Viribus Mid-Drive Motor Conversion Kit Components

- 1 x Mid-Drive Motor
- 1 x Chainring
- 2 x Cranks
- 1 x Control Panel (Display)
- 1 x Throttle
- 1 x Headlight
- 1 x Brake Cable and Sensor
- 1 x Speed Magnet and Sensor
- 1 x 1T4 Cable (Wiring Harness)
- 1 x Wrench
- 2 x Washers
- 2 x Brake Magnets

4. SETUP AND INSTALLATION

This section outlines the general steps for installing your Viribus Mid-Drive Motor Conversion Kit. Professional installation is recommended if you are unfamiliar with bicycle mechanics or electrical systems.

4.1 Compatibility Check

The conversion kit is compatible with most bicycles that have a bottom bracket shell length of 68-73 mm and a diameter of 34-36 mm. It is suitable for various bike types including mountain bikes, city bikes, road bikes, and folding bikes.

DIE RICHTIGE GRÖÖE WÄHLEN

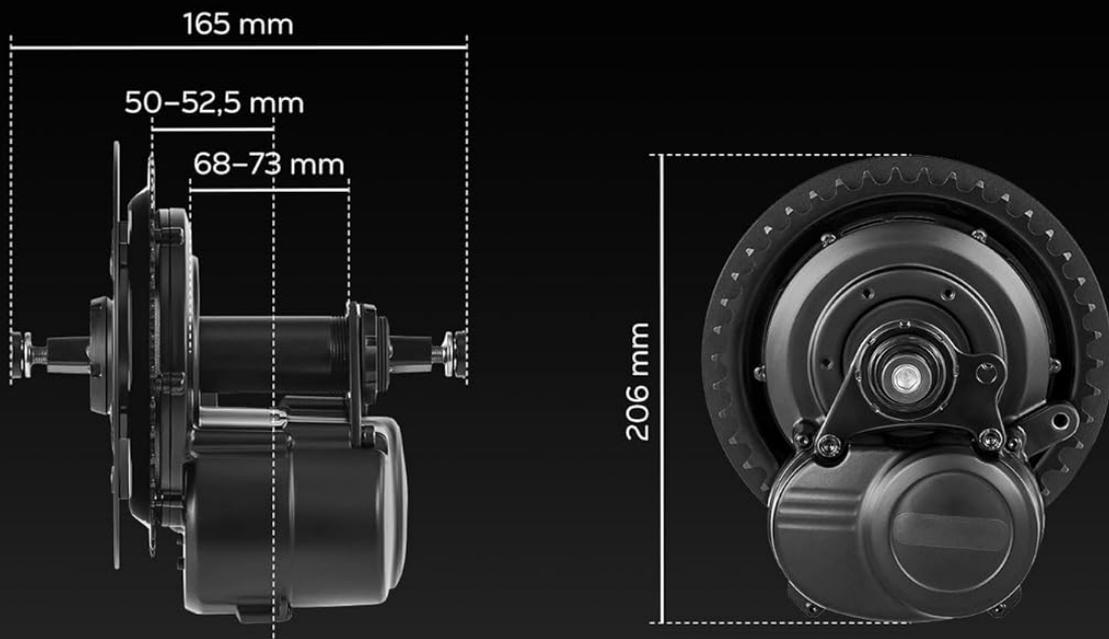
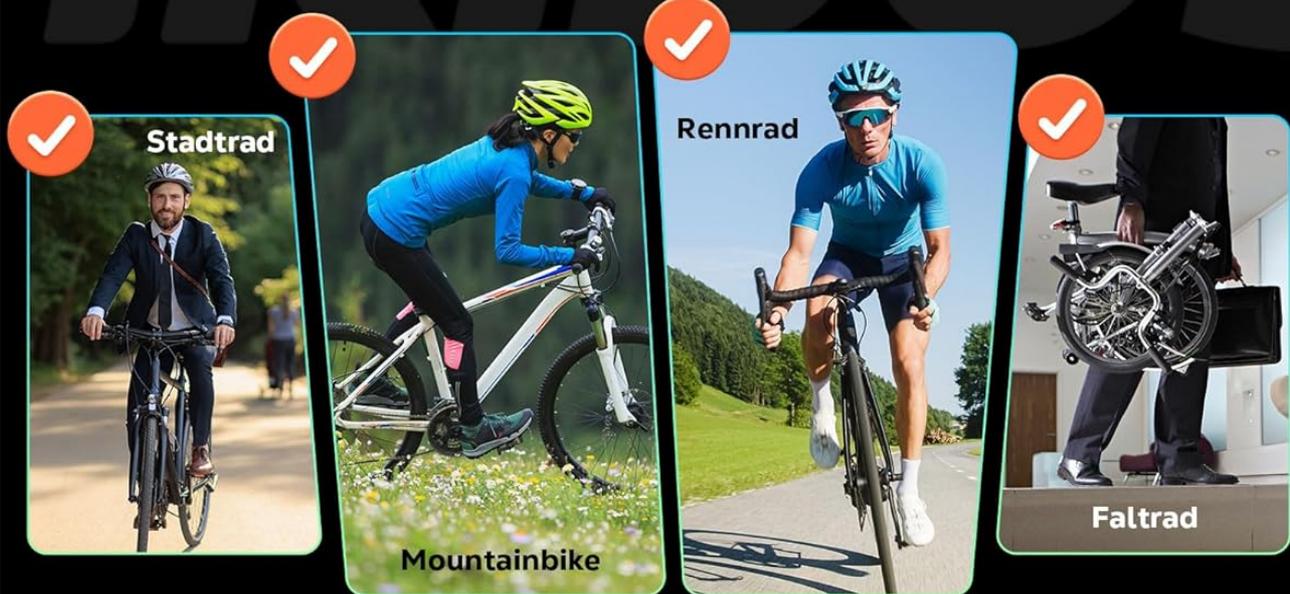


Image 4.1: Bicycle Compatibility and Motor Dimensions

4.2 Motor Installation

1. Remove your bicycle's existing crankset, bottom bracket, and front derailleur (if applicable).
2. Insert the mid-drive motor into the bottom bracket shell.
3. Secure the motor using the provided mounting hardware and washers. Ensure it is tightly fastened to prevent rotation.
4. Install the new chainring and cranks onto the motor spindle.

4.3 Wiring Connections

The kit features color-coded cables for easy connection. Refer to the diagram below for proper wiring.

SCHNELLE & EINFACHE EINRICHTUNG



Image 4.2: Quick and Easy Setup Wiring Diagram

- Connect the Speed Sensor to the rear wheel and route its cable to the motor.
- Connect the Headlight cable.
- Connect the Brake Sensor cables to your brake levers.
- Connect the Throttle Grip cable.
- Connect the Control Panel (Display) cable.
- Connect the 1T4 Cable harness to the motor and then connect the peripheral components (display, throttle, brake sensors, speed sensor) to the appropriate ports on the 1T4 cable.
- Connect your 36V battery (not included) to the motor's main power cable. Ensure the battery is securely mounted on your bicycle.

5. OPERATING INSTRUCTIONS

Once installed, operating your e-bike conversion kit is straightforward.

5.1 Powering On/Off

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

5.2 Intuitive Display Panel

The 2.4-inch color display provides real-time information and allows you to customize your riding experience. It is app-compatible and features an IP67 waterproof rating, operating between -20 to 70°C.



INTUITIVES ANZEIGEFELD



App
kompatibel



2,4"
Bildschirmgröße



IP 67
Wasserdicht



-20 bis 70°C
Betriebstemp.



Image 5.1: Intuitive Display Panel Features

Key display indicators include:

- **Speed:** Real-time, average, and maximum speed.
- **Distance:** Current trip distance and total odometer.
- **Battery Level:** Indicates remaining battery charge.
- **Assist Level/Gear:** Shows the current level of pedal assistance.
- **Voltage:** Current system voltage.
- **Bluetooth Status:** Indicates connectivity with the app.

- **Headlight Indicator:** Shows if the headlight is on.
- **Cruise Control:** Activates and indicates cruise control function.

5.3 Riding Modes

The kit offers versatile riding modes to suit your needs:



Image 5.2: Versatile Riding Modes

- **Pedal Assist Control:** The motor provides assistance based on your pedaling input, detected by integrated cadence and torque sensors. Adjust the assist level via the display.

- **Walk Assist Control:** Provides low-speed motor assistance to help you push the bicycle when walking alongside it.
- **Manual Control:** Ride the bicycle without any motor assistance, similar to a traditional bike, for exercise or when the motor is off.

The motor's advanced cadence and torque sensors adapt seamlessly to your pedaling, providing a smooth and natural boost when needed.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your Viribus E-bike Mid-Drive Motor Conversion Kit.

- **Cleaning:** Keep the motor and display clean. Use a damp cloth to wipe surfaces. Avoid high-pressure washing directly on electrical components.
- **Connections:** Periodically check all electrical connections for tightness and signs of corrosion. Ensure waterproof seals are intact.
- **Motor Housing:** Inspect the motor housing for any physical damage.
- **Chainring and Cranks:** Ensure the chainring and cranks are securely fastened and free from excessive wear. Lubricate the chain regularly.
- **Battery Care (if applicable):** Although the battery is not included, if you are using a separate 36V battery, follow its manufacturer's instructions for charging, storage, and maintenance to maximize its lifespan.
- **General Bike Maintenance:** Continue with regular bicycle maintenance, including tire pressure, brake checks, and gear adjustments.

7. TROUBLESHOOTING

If you encounter issues with your conversion kit, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Motor not providing assistance	Low battery, loose connection, incorrect assist level, brake sensor engaged	Check battery charge, ensure all cables are secure, increase assist level on display, check brake levers are fully released.
Display not turning on	Battery disconnected or dead, loose display cable, faulty display	Check battery connection and charge, ensure display cable is firmly connected, contact support if issue persists.
Inaccurate speed reading	Speed sensor misaligned or damaged, magnet missing	Check speed sensor and magnet alignment on the wheel spoke, ensure sensor is clean.
Unusual noises from motor	Loose motor mounting, foreign object, internal motor issue	Check motor mounting bolts, inspect for debris, contact support if noise persists.

For issues not listed here or if troubleshooting steps do not resolve the problem, please contact Viribus customer support.

8. SPECIFICATIONS

Detailed technical specifications for the Viribus Mid-Drive Motor Conversion Kit:

INTELLIGENTER FAHREN, WEITER GENHEN!



Image 8.1: Motor Performance and Protection Features

- **Model Number:** EBK-M025-L1
- **Rated Power:** 250W
- **Rated Voltage:** 36V
- **Max. Torque:** 80 Nm
- **Cruising Speed:** Up to 25 km/h
- **Bottom Bracket Compatibility:** 68-73 mm length, 34-36 mm diameter
- **Waterproof Rating (Motor):** IP65

- **Waterproof Rating (Display):** IP67
- **Display Size:** 2.4-inch color display
- **Operating Temperature:** -20 to 70°C
- **Special Features:** Advanced cadence and torque sensors, overcurrent protection, undervoltage protection, app connectivity.
- **Weight (Item):** 5.8 kg
- **Package Dimensions:** 27 x 26.5 x 24 cm

9. WARRANTY INFORMATION

The Viribus E-bike Mid-Drive Motor Conversion Kit comes with a limited warranty. Please refer to the specific terms and conditions provided at the time of purchase or contact Viribus customer support for details. The warranty description states 'NO', which typically means no additional specific warranty details are provided beyond the standard limited warranty.

10. SUPPORT

For technical assistance, warranty claims, or any questions regarding your Viribus E-bike Mid-Drive Motor Conversion Kit, please contact Viribus customer support through the retailer where the product was purchased or visit the official Viribus website for contact information.