

[Manuals.plus](#) /

› [Varstrom](#) /

› Varstrom VD03 E-Bike Display User Manual

Varstrom VD03-CAN Display

Varstrom VD03 E-Bike Display User Manual

Model: VD03-CAN Display

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, maintenance, and troubleshooting of your Varstrom VD03 E-Bike Display. The VD03 is a compact 1.5-inch LED screen designed for BAFANG CAN Bus mid-motors, offering essential cycling data and enhanced control for your e-bike conversion kit.

2. PACKAGE CONTENTS

Upon opening the package, please verify that all components are present and in good condition:

- 1 x Varstrom VD03 E-Bike Display
- 1 x User Manual

PACKING LIST



VD03 Display *1



Manual *1

Image: Contents of the Varstrom VD03 E-Bike Display package, showing the display unit and the included user manual.

3. COMPATIBILITY

The Varstrom VD03 display is specifically designed for Bafang motors utilizing the CAN protocol. It is compatible with the latest 2025 CAN protocol updated Bafang mid-motors, including:

- BBS01B
- BBS02B
- BBSHD

It also supports Bafang mid-motor systems such as:

- M200
- M400
- M420

- M500
- M510
- M600
- M620
- M625
- M325
- M225

Important: This display is NOT compatible with BAFANG UART protocol motors. If you are unsure about compatibility, please contact Varstrom support before purchase.

ATTENTION



Only compatible with
Bafang CAN protocol motor



BAFANG Mid Motor (CAN)



BAFANG Hub Motor (CAN)



Image: Visual representation of compatible Bafang CAN protocol mid and hub motors, highlighting the correct triangular 5-pin connector.

4. SETUP AND INSTALLATION

Follow these steps to properly install your VD03 E-Bike Display:

1. **Mounting the Display:** The VD03 display is designed for standard handlebars with a diameter of 22.2 mm. Position the display on your handlebar in a location that provides clear visibility and easy access to the buttons. Secure it firmly using the integrated clamp.
2. **Connecting to the Motor:** Locate the 5PIN male triangular connector on the VD03 display cable. Connect this to the corresponding female port on your Bafang CAN protocol motor system. Ensure the connection is secure and fully seated to prevent water ingress and ensure proper communication.



Image: The Varstrom VD03 E-Bike Display, showcasing its compact design and the distinctive 5-pin triangular connector for secure attachment to the e-bike system.



Image: A detailed view of the Varstrom VD03 E-Bike Display, highlighting its sleek form factor and the integrated handlebar clamp.

5. OPERATING INSTRUCTIONS

The VD03 display provides clear and easy-to-read data for an optimal riding experience. Here's how to operate it:

5.1 Display Functions

The 1.5-inch high-definition LED display shows key cycling information:

- **Real-time Speed:** Displays your current riding speed.
- **Battery Level Graphic:** Indicates the remaining battery charge.
- **Gear Display:** Shows the current Pedal Assist System (PAS) level.
- **Headlight Indicator:** Illuminates when the e-bike's headlights are active.

MULTIFUNCTION LCD DISPLAY



Image: An illustration of the VD03 display mounted on a handlebar, pointing out the real-time speed, battery level graphic, gear display, and headlight indicator.

5.2 PAS Levels

The display supports adjustable PAS levels of 0-3, 0-5, or 0-9, allowing you to select the desired level of motor assistance.

5.3 APP Support (BIKEGO+)

The VD03 display supports the “BIKEGO+” APP, which enables advanced functions:

- **Resetting Total Mileage:** Use the app to reset the accumulated distance.
- **Quick Unlock:** The app can facilitate quick unlocking of the display.
- **Basic Cycling Information:** View additional data and settings.

QUICK UNLOCK



Image: The VD03 display on a handlebar, illustrating its quick unlock capability via a smartphone application.

5.4 Additional Features

- **Auto Shutdown:** The display will automatically shut down after a period of inactivity to conserve battery.
- **Adjustable Wheel Size:** Allows for accurate speed and distance readings across different wheel sizes.
- **Advanced Password:** The default advanced password is 2020.



Image: A graphic detailing the high-tech features of the VD03 display, such as adjustable PAS levels, 22.2mm holder size, 1.5-inch LED screen, password protection, and English language support.

6. MAINTENANCE

To ensure the longevity and optimal performance of your VD03 display, follow these maintenance guidelines:

- **Cleaning:** Wipe the display screen and body with a soft, damp cloth. Avoid using abrasive cleaners or solvents that could damage the surface.
- **Water Resistance:** The display has an IPX7-rated waterproof structure, providing protection against water immersion up to 1 meter for 30 minutes. However, it is recommended to avoid using it in extreme weather conditions or prolonged submersion.
- **Storage:** When not in use for extended periods, store the display in a dry, cool place within the specified storage temperature range (-30°C to 80°C).

7. TROUBLESHOOTING

If you encounter issues with your VD03 display, please refer to the following common problems and solutions:

- **Display Does Not Power On:**

- Check all cable connections, especially the 5PIN triangular connector, to ensure they are securely seated.
- Verify that your e-bike battery is charged and properly connected to the motor system.

- **Incorrect Speed/Distance Readings:**

- Ensure the wheel size setting in the display or associated app is correctly configured for your e-bike.

- **Display Freezes or Malfunctions:**

- Try turning off your e-bike system and then restarting it.
- If the issue persists, contact Varstrom technical support.

For more complex issues or problems not listed here, please refer to the support section.

8. SPECIFICATIONS

Detailed technical specifications for the Varstrom VD03 E-Bike Display:

PRODUCT SPECIFICATION



• Connector:	5PIN Female	• Size:	L26mm * W45mm * H48mm
• Protocol:	CAN	• Holer:	φ22.2mm
• Screen:	1.5" LED Screen	• Cable Length:	200mm
• Voltage:	12V/24V/36V/48V/52V/60V	• Waterproof:	IP67
• PAS Level:	0-3,0-5,0-9 Optional	• Brightness:	NO
• Advanced password:	2020	• Operating Temperature:	-20°C ~ +70°C
• Speed Limited:	0km/h ~ 99km/h	• Storage Temperature:	-30°C ~ 80°C
• USB Port :	No	• Light-sensitive:	No

Image: A comprehensive diagram illustrating the dimensions and key technical specifications of the VD03 display.

Feature	Detail
Screen Size	1.5" LED (17mm x 34mm)
Holder Diameter	22.2 mm (0.87 inches)
Communication Protocol	CAN BUS
Connector Type	Triangular 5-PIN Male
Voltage Compatibility	12V/24V/36V/48V/52V/60V
PAS Levels	0-3 / 0-5 / 0-9 (Optional)
Speed Limit	0 km/h ~ 99 km/h
USB Port	No

Feature	Detail
Dimensions (L*W*H)	26mm * 45mm * 48mm (1.02" * 1.77" * 1.88")
Cable Length	200 mm (7.87 inches)
Waterproof Rating	IP67
Operating Temperature	-20°C ~ +70°C
Storage Temperature	-30°C ~ +80°C
Material	ABS and PC

9. WARRANTY INFORMATION

Varstrom provides the following warranty for the VD03 E-Bike Display:

- **Display Warranty:** A 6-month warranty is provided specifically for the display unit.
- **Return Policy:** 30 days return period from the date of purchase.
- **Repair/Replacement:** 365 days repair or replacement policy for manufacturing defects.

Please retain your proof of purchase for warranty claims.

10. CUSTOMER SUPPORT

For any technical assistance, questions, or concerns regarding your Varstrom VD03 E-Bike Display, please contact our dedicated support team:

- Our technical team in the US provides expert support and solutions.
- We offer ongoing technical support beyond the warranty period to ensure long-term reliability and performance.

For additional resources and detailed instructions, you may refer to the official PDF manual:

Download Official User Manual
(PDF)

© 2025 Varstrom. All rights reserved.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Answered questions about this manual

After turning on my Varstrom VD03-CAN display, it shows the battery charge and the number '36' but remains locked. What should I do?

If your Varstrom VD03-CAN display is showing a number like "36" and will not unlock, it is likely stuck on the Boot Password screen or a voltage setting menu. The number "36" often refers...

[Read full answer](#)

Why is my Varstrom VD03-CAN Display not working properly and only showing two dashes or a limited menu?

If your Varstrom VD03-CAN Display is not working correctly or only showing limited characters (like two dashes), it often indicates a communication issue between the display and the motor controller. Please follow these troubleshooting...

[Read full answer](#)