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› SPORTARC DZ41 E-Bike Display User Manual for Bafang M500 M600 BBS0102 Motors

## SPORTARC DZ41

# SPORTARC DZ41 E-Bike Display User Manual

Model: DZ41 | Brand: SPORTARC

## 1. INTRODUCTION

Thank you for choosing the SPORTARC DZ41 E-Bike Display. This manual provides essential information for the proper installation, operation, and maintenance of your new display. Please read this manual thoroughly before use to ensure optimal performance and safety.

The DZ41 display is designed for electric bicycles equipped with Bafang mid-drive motors, supporting both UART and CAN communication protocols. It provides crucial riding data at a glance, enhancing your e-bike experience.

## 2. SAFETY INFORMATION

- Always ensure your e-bike is turned off before installing or removing the display.
- Do not attempt to open or modify the display unit. This may void the warranty and cause damage.
- Keep the display away from extreme temperatures, direct sunlight for prolonged periods, and corrosive substances.
- Protect the display from heavy impacts and water immersion. While designed for outdoor use, excessive water exposure should be avoided.
- Ensure all connections are secure and properly sealed to prevent water ingress.
- Regularly check the display's mounting for stability.

## 3. PACKAGE CONTENTS

Verify that all items are present in your package:

- 1 x SPORTARC DZ41 E-Bike Display

If any items are missing or damaged, please contact your retailer.

## 4. PRODUCT OVERVIEW

The SPORTARC DZ41 display is a compact and durable unit designed to provide essential information for your e-bike. It features a clear LED screen and intuitive controls.

### Key Features:

- **Durable Construction:** Made from robust metal and plastic for long-lasting use.
- **Wide Compatibility:** Specifically designed for Bafang mid-drive motors including M500, M600, BBS0102, and other HD instruments.
- **Dual Protocol Support:** Compatible with both UART (e.g., BBS0102, BBSHDS, M400, G330, M620, G510, M615, G320, G340) and CAN protocols (e.g., M400, G330, M620, G510, M615, M200, M300, M500, M510, M560, M600, M410, M800, M820).
- **Sleek Design:** Features an elegant black finish.
- **Clear Display:** 5.1 cm LED screen with a semi-transparent dark PC window material.
- **Intuitive Controls:** Equipped with 4 durable plastic buttons for easy navigation.



Image: The DZ41 display highlighting its 5.1 cm LED screen, semi-transparent PC window, and 4 hard plastic buttons.

## 5. SETUP AND INSTALLATION

Follow these steps to correctly install your DZ41 display:

1. **Mounting the Display:** Securely attach the DZ41 display to your e-bike's handlebars using the integrated clamp. Ensure it is positioned for easy viewing and access to buttons without obstructing your riding.
2. **Connecting the Cable:** Locate the display cable from your Bafang motor system. Carefully align and connect the DZ41 display's cable to the motor's corresponding port. Ensure the connection is firm and fully seated.
3. **Securing the Connection:** If applicable, use any provided locking rings or covers to secure the cable connection and protect it from moisture and dirt.
4. **Cable Management:** Route the display cable along your handlebars and frame, securing it with cable ties to prevent it from snagging or interfering with steering.



Image: The DZ41 display shown mounted on an e-bike handlebar, with the Bafang motor visible in the background, illustrating typical installation.



Image: A close-up view of the display's green connector, indicating the type of connection to the e-bike system.

## 6. OPERATING INSTRUCTIONS

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Familiarize yourself with the display's buttons and screen layout for effective use.

### Button Functions:

- **Power Button (M):** Press and hold to turn the display ON/OFF. Short press to cycle through display modes (e.g., Trip, ODO, Max Speed).
- **Up Button (+):** Increases the pedal assist level (PAS) or navigates up in menus.
- **Down Button (-):** Decreases the pedal assist level (PAS) or navigates down in menus.
- **Light Button (Headlight icon):** Short press to turn the e-bike's lights ON/OFF (if connected and supported by the motor system).

## Display Information:

The screen typically shows the following information:

- **Speed:** Current riding speed (KM/H or MPH).
- **PAS Level:** Current pedal assist level (e.g., 0-5).
- **Battery Indicator:** Graphical representation of remaining battery charge.
- **Trip Distance:** Distance covered during the current ride.
- **Total Odometer (ODO):** Total distance covered by the e-bike.
- **Headlight Indicator:** Icon illuminates when lights are on.



Image: A detailed view of the DZ41 display screen, illustrating the various data points such as speed, trip distance, battery level, and pedal assist level.

## 7. MAINTENANCE

Proper maintenance ensures the longevity and reliability of your DZ41 display:

- **Cleaning:** Wipe the display screen and body with a soft, damp cloth. Do not use abrasive cleaners, solvents, or spray water directly onto the unit.
- **Connection Check:** Periodically inspect the cable connections for any signs of wear, corrosion, or looseness. Ensure they remain securely fastened.
- **Storage:** When not in use for extended periods, store the e-bike and display in a dry, temperate environment, away from direct sunlight.
- **Avoid Impact:** Protect the display from physical shocks or drops, which can damage internal

components or the screen.

## 8. TROUBLESHOOTING

If you encounter issues with your DZ41 display, refer to the following common problems and solutions:

- **Display Does Not Turn On:**
  - Check if the e-bike battery is charged and turned on.
  - Ensure all cable connections between the display and the motor are secure.
  - Try pressing and holding the power button (M) for a few seconds.
- **No Speed Reading:**
  - Verify that the speed sensor on your e-bike is correctly installed and functioning.
  - Check the connection between the display and the motor for any loose wires.
- **Incorrect Data Displayed:**
  - Ensure the display is set to the correct wheel size and units (KM/H or MPH) in the motor controller settings (if accessible).
  - Restart the e-bike system by turning it off and on again.
- **Buttons Not Responding:**
  - Check for any physical obstructions or debris around the buttons.
  - If the issue persists, a system reset (if available for your motor controller) might be necessary, or contact support.

For persistent issues not covered here, please contact SPORTARC customer support or your e-bike dealer.

## 9. SPECIFICATIONS

|                        |                                                                                    |
|------------------------|------------------------------------------------------------------------------------|
| Brand                  | SPORTARC                                                                           |
| Model Number           | 1401913116                                                                         |
| Material               | Metal and Plastic                                                                  |
| Color                  | Black                                                                              |
| Dimensions (L x W x H) | 20 x 15 x 10 cm (approximate package dimensions)                                   |
| Weight                 | 80 grams (approximate product weight)                                              |
| Display Type           | 5.1 cm LED                                                                         |
| Compatibility (UART)   | BBS0102, BBSHDS, M400, G330, M620, G510, M615, G320, G340                          |
| Compatibility (CAN)    | M400, G330, M620, G510, M615, M200, M300, M500, M510, M560, M600, M410, M800, M820 |

## 10. WARRANTY AND SUPPORT

SPORTARC products are manufactured to high-quality standards. For warranty information, please refer to the terms and conditions provided at the time of purchase or contact your retailer.

For technical support, troubleshooting assistance, or inquiries regarding your SPORTARC DZ41 display, please contact SPORTARC customer service through their official website or your point of purchase. Please have your product model number (1401913116) and purchase details ready when contacting support.