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› NB POWER SW900 E-Bike LCD Display Instruction Manual

NB POWER SW900

NB POWER SW900 E-Bike LCD Display Instruction Manual

Model: SW900 | Brand: NB POWER

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your NB POWER SW900 LCD Display for electric bicycles. The SW900 display is designed to enhance your e-bike experience by providing essential ride data and control over your e-bike system. Please read this manual thoroughly before use to ensure proper function and safety.

2. SAFETY INFORMATION

- Always ensure all connections are secure before riding.
- The display is **not waterproof**. Avoid exposure to heavy rain or immersion in water.
- Do not attempt to open or modify the display unit, as this may void the warranty and cause damage.
- Ensure the display is mounted securely and does not obstruct your view or control of the bicycle.
- Operate your e-bike responsibly and adhere to all local traffic laws.

3. PRODUCT OVERVIEW

The NB POWER SW900 LCD Display serves as a comprehensive trip computer and control interface for your electric bicycle. It provides real-time information and allows you to manage various aspects of your e-bike's performance.

Key Features:

- Displays remaining battery charge, current speed, average speed, and maximum speed.
- Tracks total distance (odometer) and single trip distances.
- Allows selection of assist levels (if Pedal Assist System - PAS - is installed).
- Adjustable wheel size setting for accurate speed and distance readings.

- Compatible with 24V, 36V, 48V, 60V, and 72V e-bike systems.

Compatibility Note:

This display is designed to match only with controllers marked with the "YF" style. Please verify your controller's marking before installation to ensure compatibility.



This image illustrates the specific 'YF' marking on a compatible controller, which is essential for the SW900 LCD display to function correctly. The display unit is also visible, highlighting its connection point.

4. SETUP

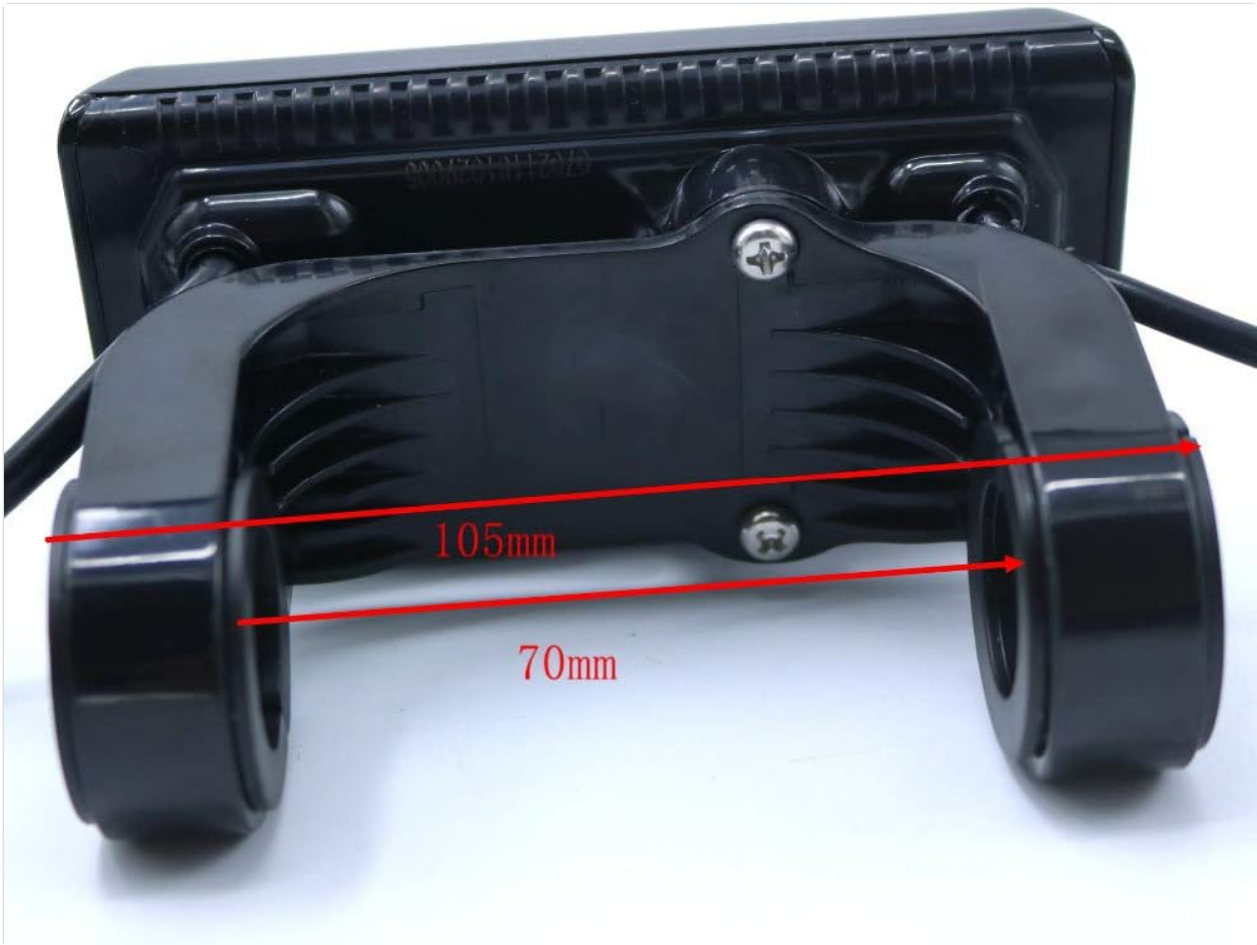
4.1 Unpacking

Carefully remove the SW900 LCD display from its packaging. Inspect the unit for any signs of damage. Ensure all components, including the display unit and connecting cables, are present.

4.2 Mounting the Display

1. Choose a suitable location on your e-bike's handlebar, typically near the center, that allows for clear visibility and easy access to buttons without obstructing your riding.

2. The display is designed for handlebars with a **22mm diameter**.
3. Loosen the screws on the display's mounting bracket.
4. Position the display on the handlebar and tighten the screws securely, ensuring the display is stable and facing the rider. Do not overtighten.



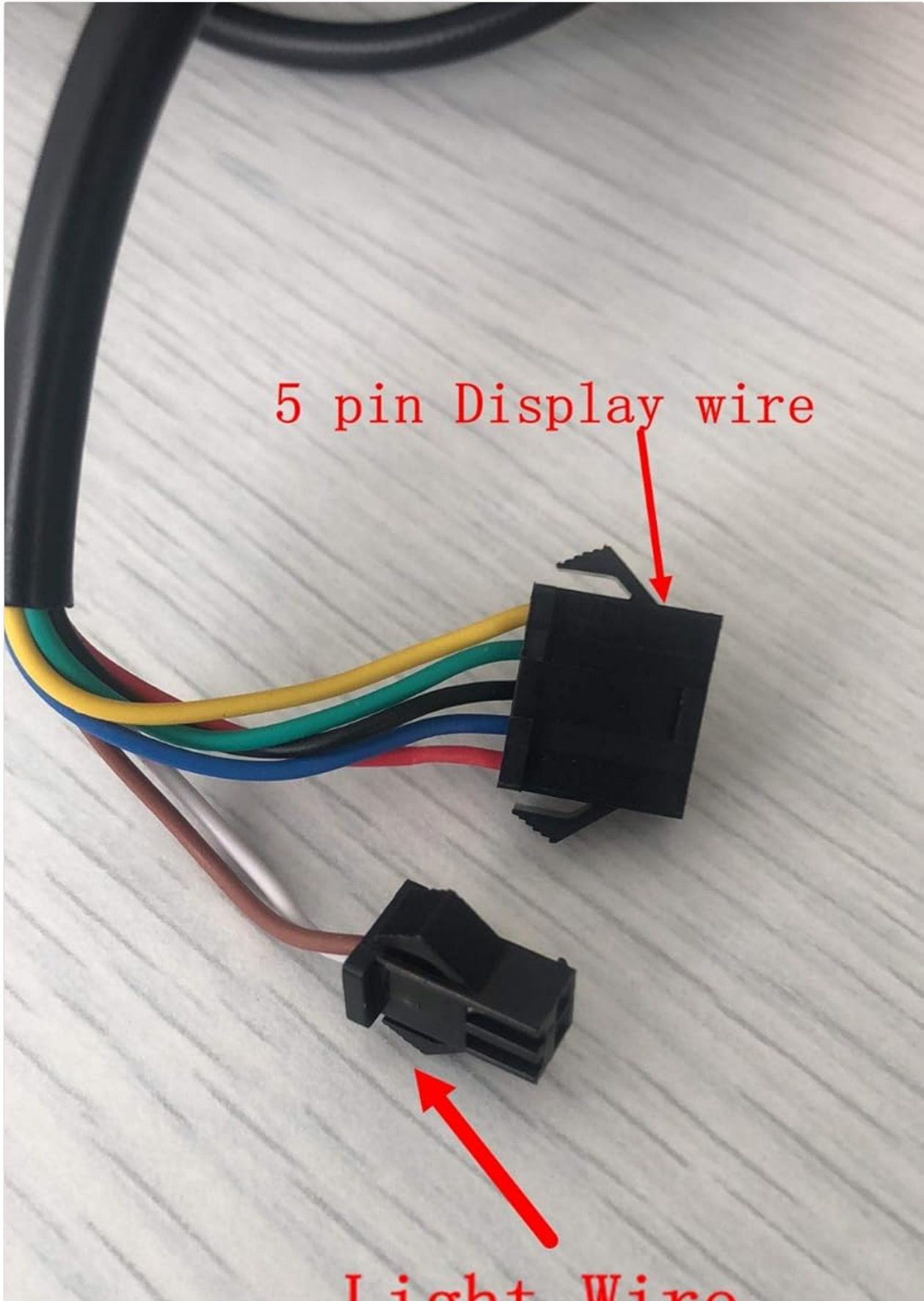
The rear view of the SW900 display illustrates its physical dimensions, including the overall width of 105mm and the 70mm spacing between the mounting points. The handlebar clamp diameter is 22mm.



The SW900 LCD display is shown installed on an electric bicycle handlebar, demonstrating its typical placement for optimal visibility and access during riding. It is positioned centrally between the brake levers and gear shifters.

4.3 Connecting the Display

1. Locate the **5-pin SM common connector** on your e-bike controller.
2. Connect the corresponding 5-pin connector from the SW900 display cable to the controller's port. Ensure the connection is firm and fully seated.
3. If your e-bike system includes a light, connect the separate light wire from the display to the appropriate light connector on your e-bike wiring harness (if applicable).





This image details the 5-pin SM common connector, which is used to connect the SW900 display to the e-bike controller. A separate connector for an optional light wire is also shown.

4.4 Initial Settings

After connecting, power on your e-bike. The display should illuminate. You may need to enter the settings menu to configure parameters such as wheel size and voltage to match your e-bike's specifications for accurate readings. Refer to Section 5.2 for details on navigating the settings.

5. OPERATING INSTRUCTIONS

5.1 Power On/Off

- To power on the display, press and hold the power button (usually labeled 'M' or a power symbol) for a few seconds.
- To power off, press and hold the same button until the display turns off.

5.2 Display Functions and Settings

The SW900 display provides various data and allows for system adjustments. The exact button layout and menu navigation may vary slightly, but generally involve 'Up', 'Down', and 'Mode' (M) buttons.



This image displays the SW900 LCD screen in operation, showing key information such as current speed, total distance (ODO), battery charge level, and the current assist mode (ECO). An example 'Error 23' is also visible, indicating a potential system issue.

- **Current Speed:** Displays your real-time riding speed.
- **Battery Level:** Indicates the remaining charge of your e-bike battery.
- **PAS Level:** Shows the current level of pedal assist. Use the 'Up' and 'Down' buttons to adjust the assist level (e.g., ECO, Standard, Power).
- **Odometer (ODO):** Records the total distance traveled by the e-bike.
- **Trip Distance:** Records the distance for the current ride. This can usually be reset.
- **Average/Max Speed:** Some models may display average and maximum speeds for the current trip.
- **Clock:** Displays the current time.

5.3 Accessing Settings Menu

To access advanced settings (e.g., wheel size, voltage, speed limit), typically press and hold the 'M' button and the 'Up' button simultaneously, or follow specific instructions provided with your e-bike kit. Within the settings menu, use 'Up' and 'Down' to navigate and 'M' to select or confirm.

6. MAINTENANCE

- **Cleaning:** Wipe the display screen and body with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Connections:** Periodically check all cable connections to ensure they are secure and free from corrosion.

- **Storage:** When not in use for extended periods, store the e-bike and display in a dry, temperate environment.
- **Water Exposure:** As the display is not waterproof, protect it from rain and moisture. Consider a protective cover if riding in wet conditions.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Display does not power on.	Loose connection, low battery, incompatible controller.	Check all cable connections. Ensure e-bike battery is charged. Verify controller is 'YF' marked.
Incorrect speed/distance readings.	Incorrect wheel size setting.	Access settings menu and adjust wheel size to match your e-bike's wheel diameter.
Display shows an error code (e.g., "Error 23").	System malfunction, sensor issue, communication error.	Consult your e-bike controller's manual for specific error code meanings. Often, restarting the system or checking sensor connections can resolve minor errors.
Buttons are unresponsive.	Moisture ingress, internal fault.	Ensure the display is dry. If the issue persists, contact support.

8. SPECIFICATIONS

- **Brand:** NB POWER
- **Model:** SW900 (NBP-KT-SW900)
- **Voltage Compatibility:** 24V, 36V, 48V, 60V, 72V
- **Connector Type:** 5-pin SM common connector (not waterproof)
- **Material:** Plastic
- **Handlebar Clamp Diameter:** 22mm
- **Overall Width:** Approximately 105mm
- **Mounting Hole Spacing:** Approximately 70mm
- **Special Features:** Trip computer, PAS control, battery indicator, speed display, distance tracking.

9. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the documentation provided with your complete e-bike kit or contact your original point of purchase. Ensure you have your product model number (SW900) and any relevant purchase details available when seeking support.

For general inquiries, you may visit the NB POWER official website or contact their customer service department.

