

ANENG BT173

ANENG BT173 Universal Battery Tester User Manual

Model: BT173

1. INTRODUCTION

The ANENG BT173 Battery Tester is a versatile and compact device designed for evaluating the charge status and voltage of a wide range of household batteries. This manual provides detailed instructions for the safe and effective use of your BT173 battery tester, ensuring accurate measurements and prolonging the life of your batteries by identifying those that are still usable.



Figure 1: ANENG BT173 Battery Tester

This battery checker is an essential tool for any household, helping to reduce waste by determining whether a battery is still functional or needs replacement.

2. PRODUCT OVERVIEW

2.1 Key Features

- **Wide Compatibility:** Tests AA, AAA, C, D, 9V (6F22), 1.5V button cells, 12V (23A), and various 3.7V lithium batteries (18650, 26650, 21700, 14500, 10440, 16340).
- **Dual Range Display:** Features a clear digital display showing both voltage and a battery level bar for easy interpretation.

- **User-Friendly Operation:** Provides immediate status indication (poor, weak, good) upon battery insertion.
- **Battery-Free Design:** The tester operates without its own power source, drawing minimal power directly from the battery being tested.
- **Compact and Portable:** Lightweight (approximately 33 grams) and small, designed for easy carrying and storage.

2.2 Component Identification

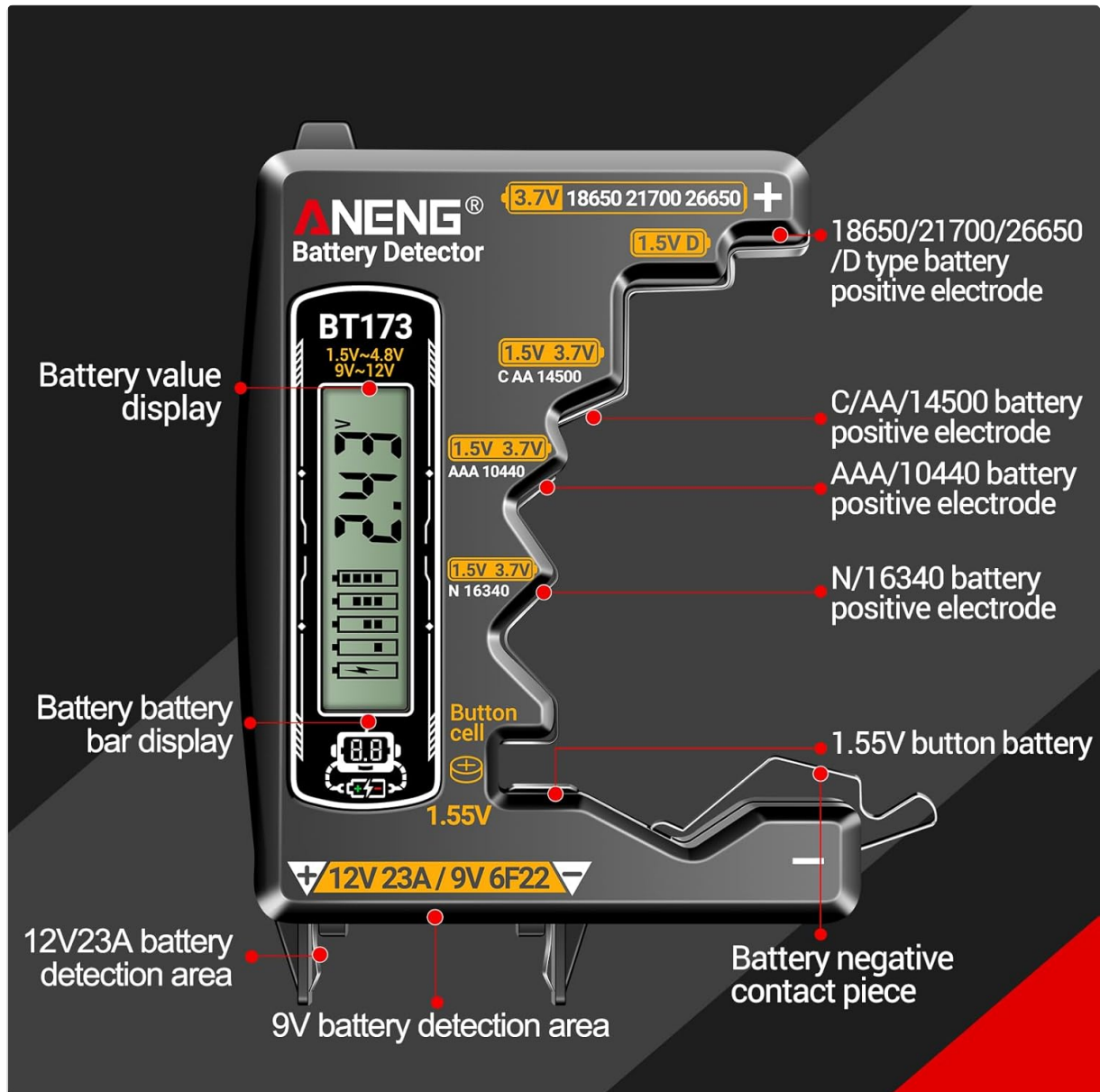


Figure 2: Labeled Components of the BT173 Battery Tester

The ANENG BT173 features clearly marked contact points and a digital display for intuitive use. Key components include:

- **Battery Value Display:** Shows the precise voltage reading.
- **Battery Bar Display:** Provides a visual indication of the battery's charge level.
- **18650/21700/26650 /D Type Battery Positive Electrode:** Top slot for larger cylindrical batteries.
- **C/AA/14500 Battery Positive Electrode:** Side slot for C, AA, and 14500 batteries.
- **AAA/10440 Battery Positive Electrode:** Side slot for AAA and 10440 batteries.

- **N/16340 Battery Positive Electrode:** Side slot for N and 16340 batteries.
- **1.55V Button Battery Contact:** Circular indentation for button cells.
- **12V 23A / 9V 6F22 Battery Detection Area:** Bottom port for 9V and 12V batteries.
- **Battery Negative Contact Piece:** Spring-loaded contact for the negative terminal of cylindrical batteries.

3. SETUP

The ANENG BT173 Battery Tester requires no external power source or complex setup. It is ready for use directly out of the packaging. Simply ensure the device is clean and free from debris before testing.

4. OPERATING INSTRUCTIONS

To test a battery, align its positive (+) and negative (-) terminals with the corresponding contact points on the tester. The tester will automatically power on and display the battery status.

4.1 General Testing Procedure

1. Identify the type of battery you wish to test.
2. Locate the appropriate testing slot or contact area on the BT173 tester for your battery type.
3. Carefully insert the battery, ensuring the positive (+) and negative (-) terminals make firm contact with the tester's electrodes. For cylindrical batteries, the spring-loaded negative contact will adjust.
4. Observe the digital display. It will show the battery's voltage and a graphical battery level indicator.
5. Interpret the results: The display will indicate if the battery is 'Poor', 'Weak', or 'Good'. If the battery is completely depleted, the screen will not display any voltage.

All kinds of battery testing



Figure 3: Testing various battery types

4.2 Testing Specific Battery Types

The BT173 is designed with multiple interfaces to accommodate different battery sizes and types:

- **1.5V Cylindrical Batteries (AA, AAA, C, D, N):** Place the positive end into the corresponding notched slot on the side or top, and the negative end against the spring-loaded contact at the bottom.
- **1.5V Button Cells:** Place the button cell into the circular indentation labeled 'Button cell' with the positive side facing up.
- **3.7V Lithium Batteries (18650, 26650, 21700, 14500, 10440, 16340):** Insert the battery into the appropriate notched slot (top for larger sizes, side for smaller) ensuring correct polarity.
- **9V (6F22) and 12V (23A) Batteries:** Use the dedicated port at the bottom of the tester. Align the positive and negative terminals of the battery with the contacts in this port.

Two detection interfaces



Figure 4: Using the dedicated 9V/12V battery detection area



Figure 5: Comprehensive guide to testing multiple battery types

5. MAINTENANCE

The ANENG BT173 Battery Tester requires minimal maintenance to ensure its longevity and accurate performance.

- **Cleaning:** Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the tester in a cool, dry place away from direct sunlight and extreme temperatures.
- **Handling:** Avoid dropping the device or subjecting it to strong impacts, as this may damage internal components.
- **No User-Serviceable Parts:** Do not attempt to open or repair the tester yourself. This could void any potential warranty and may cause damage to the device.

6. TROUBLESHOOTING

If you encounter issues with your ANENG BT173 Battery Tester, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
Display does not light up or shows no reading.	Battery is completely drained (0V). Poor contact between battery and tester terminals.	Replace the battery with a new one. Ensure the battery is inserted correctly and makes firm contact with both positive and negative terminals. Re-insert the battery.
Inaccurate or inconsistent readings.	Incorrect battery type for the slot used. Dirty contacts on the tester or battery.	Verify you are using the correct testing slot for the specific battery type. Clean the battery terminals and tester contacts with a dry cloth.
Tester appears damaged.	Physical damage from impact or misuse.	Discontinue use. Contact ANENG customer support for assistance.

7. SPECIFICATIONS

- **Model:** BT173
- **Brand:** ANENG
- **Supported Battery Types:**
 - 1.5V: AA, AAA, C, D, N, Button Cells
 - 9V: 6F22
 - 12V: 23A
 - 3.7V Lithium: 18650, 26650, 21700, 14500, 10440, 16340
- **Display:** Dual-screen digital display (Voltage and Battery Level Bar)
- **Power Source:** Battery-free (draws power from tested battery)
- **Weight:** Approximately 33 grams
- **Dimensions (Approximate):**
 - Length: 10.5 cm (4.13 inches)
 - Width: 8.2 cm (3.22 inches)
 - Thickness: 1.42 cm (0.55 inches)



Figure 6: Product Dimensions



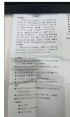
8. WARRANTY AND SUPPORT

Warranty information for the ANENG BT173 Battery Tester is not provided in this manual. For details regarding warranty coverage, returns, or technical support, please refer to the product packaging, the retailer's website where the product was purchased, or contact ANENG customer service directly.

Manufacturer: ANENG

Related Documents - BT173

	<p>ANENG BT169 Battery Tester: Comprehensive Guide and Specifications</p> <p>Learn how to use the ANENG BT169 battery tester to measure various battery types from 1.2V to 4.8V. This guide covers specifications, usage instructions, and accuracy for common batteries like AA, AAA, 9V, and lithium cells.</p>
	<p>ANENG BT189 Battery Tester: Specifications and Usage Guide</p> <p>Comprehensive guide to the ANENG BT189 battery tester, detailing its capabilities for measuring various battery types from 1.2V to 4.8V, including AA, AAA, 9V, and button cells. Learn how to use the tester and interpret results.</p>
	<p>ANENG Socket Tester Operator's Instruction Manual</p> <p>This manual provides instructions for the ANENG Socket Tester, detailing its functions for polarity detection, leakage switch testing, and voltage measurement. It includes technical specifications, safety warnings, operating procedures, and cleaning guidelines.</p>

	<p>ANENG BT-168 Battery Tester User Manual</p> <p>Comprehensive user manual for the ANENG BT-168 battery tester, detailing its features, how to use it, and how to interpret battery level readings for various battery types.</p>
	<p>ANENG VD802 Non-Contact Voltage Detector: User Manual & Specifications</p> <p>Comprehensive user manual for the ANENG VD802 non-contact voltage detector. Features include AC voltage testing (12-1000V), adjustable sensitivity, LED torch, and safety guidelines. Get detailed operation instructions and technical specifications.</p>
	<p>ANENG A3006A Digital Pen Multimeter User Manual - Features, Specifications, and Operation</p> <p>Comprehensive user manual for the ANENG A3006A Digital Pen Multimeter. Learn about its features, safety precautions, operation instructions for DCV, ACV, resistance, continuity, diode testing, NCV, and live wire identification, along with detailed technical specifications.</p>