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› [NJTY Non-Contact Voltage Tester \(Model T-03A\) User Manual](#)

## NJTY T-03A

# NJTY Non-Contact Voltage Tester (Model T-03A) User Manual

Model: T-03A | Brand: NJTY

## 1. INTRODUCTION

This manual provides detailed instructions for the safe and effective use of your NJTY Non-Contact Voltage Tester, Model T-03A. This device is designed for non-contact detection of AC voltage, offering a safe method for identifying live wires, checking for circuit breaks, and performing general electrical troubleshooting.



Image 1: NJTY Non-Contact Voltage Tester, Model T-03A. This image shows the overall design of the voltage tester, highlighting its compact and pen-like form factor with a red and black casing, green and red buttons, and an integrated LED flashlight at the tip.

## 2. SAFETY INFORMATION

Always adhere to local safety regulations and practices when working with electricity. This device is designed to enhance safety, but it does not replace proper electrical safety procedures. Failure to follow these instructions may result in electric shock, injury, or death.

- Do not use the tester if it appears damaged or is not operating correctly.
- Verify the tester's functionality on a known live circuit before and after each use.
- Always wear appropriate personal protective equipment (PPE), such as insulated gloves and safety glasses.
- Do not exceed the specified voltage range (12V-1000V AC or 48V-1000V AC).
- Keep fingers behind the finger guard during operation.
- Avoid direct contact with live conductors. This is a non-contact device.
- Do not use the device in wet conditions or in explosive atmospheres.
- The integrated laser pointer should not be aimed directly at eyes or reflective surfaces.

### 3. PRODUCT OVERVIEW

Familiarize yourself with the components of your voltage tester:



Image 2: Diagram illustrating the key components of the NJTY Voltage Tester. Labels include the NCV sensor head (probe), laser pointer, flashlight, signal/indicator lights, high/low signal indicator, power button, sensitivity switch (H/L), lighting/laser switch, and battery cover.

- 1. Probe (NCV Sensor Head):** Detects AC voltage without contact.
- 2. Laser Pointer:** Emits a red laser for targeting test points.
- 3. Flashlight:** Provides illumination in low-light conditions.
- 4. Signal / Indicator:** Visual indication of voltage detection.
- 5. High/Low Signal Indicator:** Displays the detected voltage level.
- 6. Power Button:** Turns the device on and off.
- 7. Sensitivity Switch (H/L):** Toggles between high and low sensitivity modes.
- 8. Lighting / Laser Switch:** Activates the flashlight or laser pointer.
- 9. Battery Cover:** Access point for battery replacement.

### 4. SETUP

#### 4.1 Battery Installation

The NJTY Voltage Tester requires two AAA batteries (included). To install or replace batteries:

1. Unscrew the battery cover at the bottom of the tester (refer to Image 2, item 9).
2. Insert two 1.5V AAA batteries, ensuring correct polarity (+/-).
3. Replace the battery cover and screw it securely.

# SENSITIVITY RANGE 12-1000V



Image 3: Close-up view of the battery cover at the base of the NJTY Voltage Tester, showing how it can be unscrewed for battery access.

## 5. OPERATING INSTRUCTIONS

### 5.1 Power On/Off

- To power on, press and hold the **Power Button** (refer to Image 2, item 6) until the indicator lights illuminate.
- To power off, press and hold the **Power Button** again. The device will also automatically shut down after five minutes of inactivity to conserve battery life.

### 5.2 Sensitivity Modes

The tester features two sensitivity modes for different applications:

- **High Sensitivity Mode (12V-1000V AC):** Suitable for detecting lower voltages or for general detection. Press the **Sensitivity Switch (H/L)** (refer to Image 2, item 7) to select this mode.
- **Low Sensitivity Mode (48V-1000V AC):** Ideal for detecting higher voltages or when precise localization is needed to avoid false positives from adjacent wires. Press the **Sensitivity Switch (H/L)** to select this mode.

## High sensitivity mode (12~1000V)



## Low sensitivity mode (48~1000V)



Image 4: Comparison of high and low sensitivity modes. The top row shows high sensitivity (12-1000V) detecting live wire and null wire. The bottom row shows low sensitivity (48-1000V) detecting live wire and null wire, demonstrating how the tester indicates voltage presence with visual and audible alerts.

### 5.3 Non-Contact Voltage (NCV) Detection

To detect AC voltage:

1. Turn on the tester and select the desired sensitivity mode.
2. Place the **Probe (NCV Sensor Head)** near the conductor, outlet, or device you wish to test.
3. If AC voltage is detected, the tester will emit an audible alarm and the **Signal / Indicator** lights will illuminate, with the **High/Low Signal Indicator** showing the relative strength of the detected field.

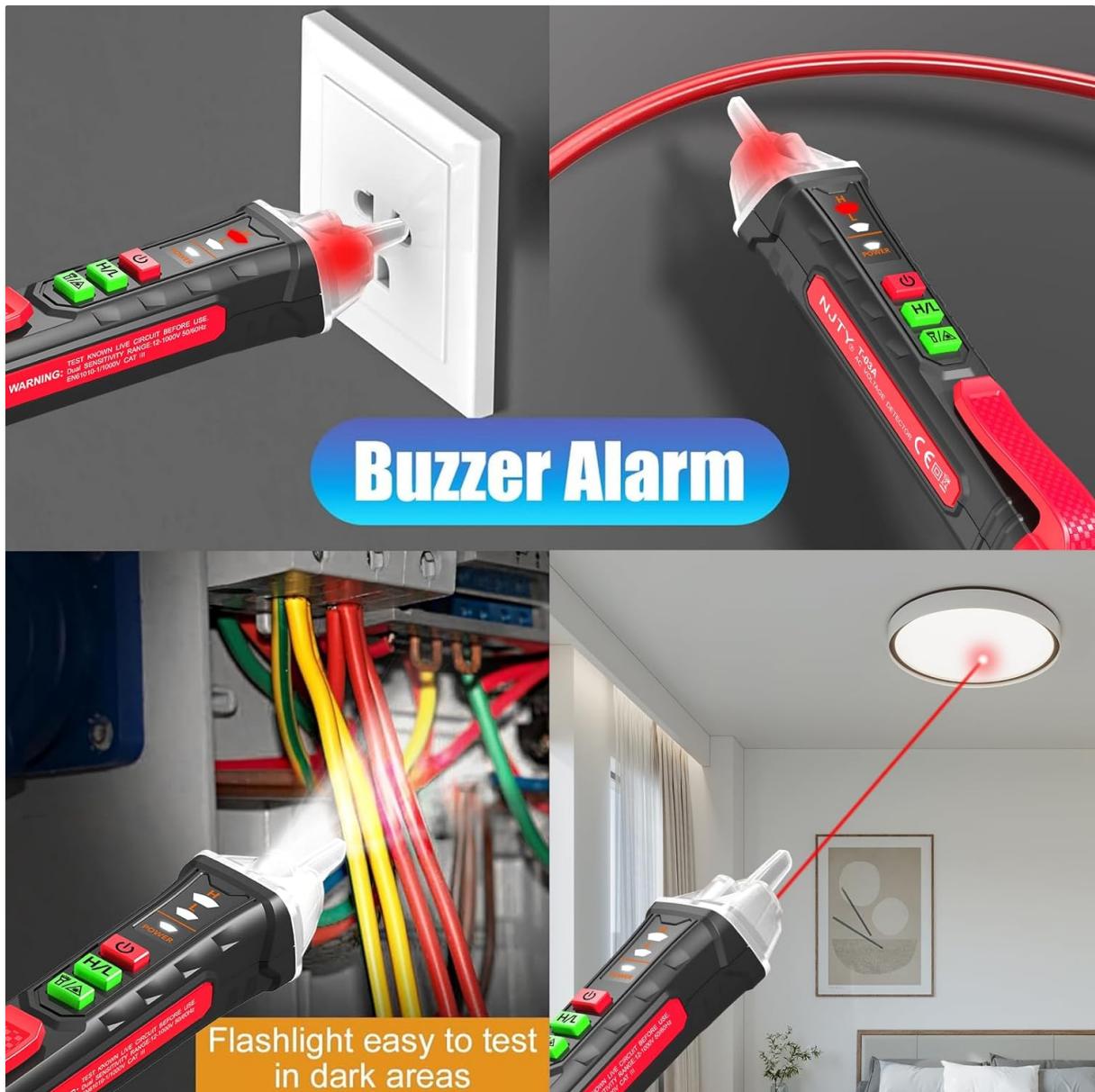


Image 5: The voltage tester in use, demonstrating NCV detection on an electrical outlet and a wire. It also shows the buzzer alarm, flashlight illuminating a circuit box, and the laser pointer targeting a ceiling light.

#### 5.4 Breakpoint Testing

This feature helps locate breaks in live wires:

1. Ensure the wire is live and the tester is in an appropriate sensitivity mode.
2. Move the **Probe (NCV Sensor Head)** along the length of the wire.
3. The tester will indicate voltage up to the point of the break. The absence of a signal beyond a certain point indicates a break in the circuit.



## BREAKPOINT TESTING

Image 6: Illustration of breakpoint testing. The tester indicates voltage on one side of a broken wire, and no voltage on the other side, pinpointing the location of the break.

### 5.5 Flashlight

To activate the integrated LED flashlight for illuminating dark work areas:

- Press the **Lighting / Laser Switch** (refer to Image 2, item 8) once.
- Press it again to turn off the flashlight.

**"Integrated LED flashlight ensures safe electrical work in low-light environments."**



Image 7: The integrated LED flashlight of the voltage tester illuminating a dark electrical panel, demonstrating its utility in low-light environments.

## 5.6 Laser Pointer

To activate the laser pointer for precise targeting:

- Press and hold the **Lighting / Laser Switch** (refer to Image 2, item 8) for a few seconds.
- Release the button to turn off the laser pointer.
- **Caution:** Do not stare into the laser beam or point it at people or animals.

**"Ensures safe and accurate indication with integrated red laser technology."**



Image 8: A hand holding the voltage tester, using its red laser pointer to indicate a specific button on an electrical control panel, highlighting its precision targeting capability.

## 6. MAINTENANCE

- **Cleaning:** Wipe the device with a dry, soft cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the tester in a cool, dry place, away from direct sunlight and extreme temperatures. If storing for extended periods, remove the batteries to prevent leakage.
- **Battery Replacement:** Replace batteries promptly when the low battery indicator appears to ensure accurate readings.

## 7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Tester does not power on.	Dead or incorrectly installed batteries.	Check battery polarity; replace batteries.

Problem	Possible Cause	Solution
No detection on a known live circuit.	Low battery, incorrect sensitivity mode, or device malfunction.	Replace batteries, switch to high sensitivity mode (12V-1000V), or contact customer support.
False positives (detects voltage where none exists).	High sensitivity mode in a noisy electrical environment.	Switch to low sensitivity mode (48V-1000V).

## 8. SPECIFICATIONS

Feature	Detail
Model	T-03A
Brand	NJTY
AC Voltage Range	12V-1000V (High Sensitivity), 48V-1000V (Low Sensitivity)
Frequency	50/60Hz
Power Source	2 x 1.5V AAA Batteries
Auto Power-Off	After 5 minutes of inactivity
Indicators	Audible alarm, LED indicator lights
Additional Features	Integrated LED flashlight, Laser pointer, Breakpoint testing
Product Dimensions	0.1 x 0.1 x 0.1 inches
Item Weight	1.8 Ounces

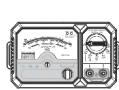
## 9. WHAT'S IN THE Box

- 1 x NJTY Voltage Tester Pen
- 2 x 1.5V AAA Batteries
- 1 x English Manual (This document)

## 10. WARRANTY AND SUPPORT

NJTY provides comprehensive after-sales support for sixty months from the date of purchase. If you encounter any issues with your NJTY Non-Contact Voltage Tester, Model T-03A, please contact our customer service team for assistance. Please refer to your purchase documentation for specific contact details.

## Related Documents - T-03A

 Insulation Resistance Tester Instruction Manual	<p><a href="#">NJTY T60 Series Insulation Resistance Tester Instruction Manual</a></p> <p>Detailed instruction manual for NJTY T6005, T6010, and T6015 analog insulation resistance testers, covering features, operation, safety, technical specifications, and package contents.</p>
 Pointer Multimeter User's Guide <small>Please read carefully before use</small>	<p><a href="#">NJTY Pointer Multimeter User's Guide: Features, Specifications, and Instructions</a></p> <p>Comprehensive user guide for the NJTY Pointer Multimeter, detailing its appearance, specifications, measurement functions (DC/AC voltage, current, resistance, capacitance, etc.), and important safety reminders.</p>
 LCR Meter Auto-ranging Digital Multimeter with TRUE RMS	<p><a href="#">NJTY T21L LCR Meter: Auto-ranging Digital Multimeter with TRUE RMS - User Manual</a></p> <p>Comprehensive user manual for the NJTY T21L LCR Meter, an auto-ranging digital multimeter with TRUE RMS. Covers specifications, safety, operation, and measurement functions for voltage, current, resistance, capacitance, inductance, frequency, and temperature.</p>
 INFRARED THERMOMETER INFRARED THERMOMETER	<p><a href="#">NJTY T-600A Infrared Thermometer Instruction Manual</a></p> <p>Instruction manual for the NJTY T-600A Infrared Thermometer. Learn about its features, safe operation, distance-to-spot ratio, emissivity settings, maintenance, and technical specifications for accurate non-contact temperature measurement.</p>
 Analog Multimeter User's Manual	<p><a href="#">NJTY 88 Series Analog Multimeter: User Manual &amp; Technical Guide</a></p> <p>Comprehensive user manual for the NJTY 88 series analog multimeters, covering features, specifications, safety precautions, and measurement instructions for DC/AC voltage and current, resistance, capacitance, frequency, and more.</p>
 UNI-T UT61+ Series 1000V True RMS Digital Multimeter	<p><a href="#">UNI-T UT61+ Series 1000V True RMS Digital Multimeter User Manual</a></p> <p>Comprehensive user manual for the UNI-T UT61+ Series 1000V True RMS Digital Multimeter, covering features, operating instructions, safety precautions, and specifications for models UT61B+, UT61D+, and UT61E+. Learn how to use your multimeter for various electrical measurements.</p>