

VOLT CRAFT VC-55 LCD

VOLT CRAFT VC-55 LCD 2-Pole Voltage Tester Instruction Manual

Brand: VOLT CRAFT | Model: VC-55 LCD

1. INTRODUCTION

This manual provides essential information for the safe and effective use of your VOLT CRAFT VC-55 LCD 2-Pole Voltage Tester. This device is designed for reliable voltage testing, continuity checks, unipolar phase testing, and rotating field testing. It features both an LCD and LED display for clear readings and is built to meet EN 61243-3 and VDE0682 standards, ensuring high safety and performance.

2. SAFETY INFORMATION

WARNING: Electrical testing can be hazardous. Always follow safety precautions to prevent injury or damage.

- Always inspect the tester for damage before use. Do not use if the housing, test leads, or probes are damaged.
- Ensure the device is rated for the voltage and current levels you intend to measure. This tester is rated CAT III 1000 V and CAT IV 600 V.
- Never touch live conductors with bare hands. Use appropriate personal protective equipment (PPE).
- Do not use the tester in wet conditions or in explosive atmospheres.
- Verify the tester's functionality on a known live source before and after each use.
- If you are unsure about any procedure, consult a qualified electrician.

3. PRODUCT OVERVIEW

Key Features

- CAT III 1000 V, CAT IV 600 V safety rating
- LCD and LED voltage display (12 V to 690 V)
- Continuity test with acoustic and visual indication
- Unipolar phase test

- Rotating field test
- Integrated measurement point illumination (flashlight)



Figure 1: The VOLTcraft VC-55 LCD 2-Pole Voltage Tester, showing its main body, test leads, and display.

4. SETUP

4.1 Battery Installation

The VC-55 LCD requires 2 AAA batteries (included) for operation. To install or replace batteries:

1. Locate the battery compartment cover on the back of the device.
2. Use a suitable tool (e.g., a small screwdriver) to open the cover.
3. Insert the 2 AAA batteries, ensuring correct polarity (+/-).
4. Securely close the battery compartment cover.

4.2 Probe Preparation

The test probes come with protective caps and interchangeable tips. For most applications, the standard tips are suitable. For testing in sockets with child protection, screw-on round tips are provided.



Figure 2: Close-up view of the test probes and the included interchangeable tips for various testing scenarios.

5. OPERATING INSTRUCTIONS

5.1 Voltage Measurement (AC/DC)

To measure voltage:

1. Connect both test probes to the circuit or component you wish to measure.
2. The voltage value will be displayed on the LCD screen.
3. Corresponding LEDs will illuminate to indicate the voltage range (12V, 24V, 50V, 120V, 230V, 400V, 690V).
4. The device automatically detects AC or DC voltage.



Figure 3: The VC-55 LCD tester actively measuring voltage within an electrical control panel, displaying readings on its screen.

5.2 Continuity Test

To perform a continuity test:

1. Ensure the circuit is de-energized before testing for continuity.
2. Touch the two test probes to the ends of the circuit or component you want to test.
3. If continuity exists (low resistance), an acoustic signal will sound, and a dedicated LED will illuminate.

5.3 Unipolar Phase Test

To test for phase (live wire) in AC circuits:

1. Hold the main body of the tester firmly.
2. Touch only one test probe to the conductor you suspect is live.
3. If the conductor is live, the phase indicator (usually an 'R' or similar symbol) on the display will light up.

5.4 Rotating Field Test

To determine the phase sequence in three-phase systems:

1. Connect the test probes to two phases of the three-phase system.
2. The tester will indicate the direction of the rotating field (e.g., 'L' for left, 'R' for right, or arrows).



Figure 4: The VC-55 LCD tester being used to safely check the voltage and presence of live wires in a standard wall socket.

6. MAINTENANCE

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

7. TROUBLESHOOTING

- **No Display/No Power:** Check battery installation and ensure batteries are not depleted. Replace if necessary.
- **Inaccurate Readings:** Ensure probes are making good contact with the test points. Verify the tester

on a known voltage source.





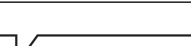

- **No Continuity Indication:** Ensure the circuit is de-energized. Check for open circuits or high resistance.
- **Tester Not Responding:** Remove batteries, wait a few seconds, and reinsert them. If the issue persists, contact customer support.

8. SPECIFICATIONS

| Feature | Specification |
|--------------------------|------------------------------------|
| Brand | VOLTCRAFT |
| Model Number | VC-55 LCD |
| Measurement Type | 2-Pole Voltage Tester |
| Safety Rating | CAT III 1000 V, CAT IV 600 V |
| Voltage Display | LCD and LED (12 V to 690 V) |
| Compliant Specifications | EN 61243-3/VDE0682 |
| Power Source | Battery Powered (2 AAA - included) |
| Min. Operating Voltage | 12 Volts |
| Max. Rated Temperature | 71 Degrees Celsius |
| Color | Black and White |
| Item Dimensions | 30.7 x 19 x 4.2 cm |
| Item Weight | 9.07 grams |
| Spare Parts Availability | 1 Year |

9. WARRANTY AND SUPPORT

This VOLTCRAFT product is designed for durability and reliability. For information regarding warranty coverage, spare parts availability, or technical support, please refer to the documentation included with your purchase or visit the official VOLTCRAFT website. For specific inquiries, you may also contact the seller directly.

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|  <p> ① Bedienungsanleitung VC292 Digital Multimeter Best. Nr. 257003 Seite 2 - 55 ② Operating Instructions VC292 Digital Multimeter Item No. 257003 Page 57 - 110 ③ Mode d'emploi VC292 Multimètre Numérique N° de commande 257003 Page 111 - 152 ④ Gebrauchsanleitung VC292 Digitale Multimeter Bestell-Nr. 257003 Pagina 153 - 210 CE </p> | <p>VOLT CRAFT VC292 Digitalmultimeter Bedienungsanleitung und Technische Daten</p> <p>Umfassende Bedienungsanleitung für das VOLT CRAFT VC292 Digitalmultimeter und den Stromzangenwandler CLA60, inklusive Sicherheitshinweisen, Messanleitungen und technischen Spezifikationen.</p> |
|  <p> Digital Multimeters User Manual ■ VC-7060BT ■ VC-7200BT </p> | <p>VOLT CRAFT Digital Multimeters VC-7060BT & VC-7200BT User Manual</p> <p>Comprehensive user manual for VOLT CRAFT VC-7060BT and VC-7200BT digital multimeters, covering safety, operation, functions, measurement tutorials, troubleshooting, and technical specifications.</p> |
|  <p> Digital Multimeters Quick Guide ■ VC-7060BT ■ VC-7200BT </p> | <p>VOLT CRAFT VC-7060BT & VC-7200BT Digital Multimeter Quick Guide</p> <p>Comprehensive quick guide for VOLT CRAFT VC-7060BT and VC-7200BT digital multimeters. Learn about safety, operation, measurements, and troubleshooting.</p> |
|  <p> ① Istruzioni per l'uso Multimetro digitale VC891 N. d'ordine 257006 CE </p> | <p>VOLT CRAFT VC891 Multimetro Digitale: Istruzioni per l'uso e Specifiche Tecniche</p> <p>Manuale d'uso completo per il multimetro digitale VOLT CRAFT VC891. Include istruzioni dettagliate su utilizzo, misurazioni, funzioni aggiuntive, manutenzione e specifiche tecniche. Ideale per professionisti e hobbisti.</p> |
|  <p> ① Bedienungsanleitung VC-BT300PRO VOLT CRAFT OBDII + Batterietester Best. Nr. 3348024 Seite 2 - 38 ② Operating Instructions VC-BT300PRO VOLT CRAFT OBDII + Battery Tester Item No. 3348024 Page 39 - 72 ③ Mode d'emploi VC-BT300PRO VOLT CRAFT OBDII + Testeur de Batterie N° de commande 3348024 Page 73 - 158 ④ Gebrauchsanleitung VC-BT300PRO VOLT CRAFT OBDII + Batterietester Bestell-Nr. 3348024 Pagina 159 - 144 CE </p> | <p>VOLT CRAFT VC-BT300PRO OBDII + Batterietester Bedienungsanleitung</p> <p>Umfassende Bedienungsanleitung für den VOLT CRAFT VC-BT300PRO, ein Diagnosewerkzeug für OBD-II und Batterietests. Enthält Funktionen, Sicherheitshinweise und technische Daten.</p> |
|  <p> ① Bedienungsanleitung 5 IN 1 MULTI-DMM 100-Jahr Mod. Nr. 30203 Seite 2 - 38 ② Operating Instructions Multi-DMM MT-52 Item No. 30203 Page 39 - 58 ③ Mode d'emploi Multi-DMM MT-52 N° de commande 30203 Page 59 - 85 ④ Gebrauchsanleitung Multi-DMM MT-52 Bestell-Nr. 30203 Pagina 87 - 14 CE </p> | <p>VOLT CRAFT MT-52 5-in-1 Digital Multimeter User Manual</p> <p>This document provides comprehensive operating instructions, safety guidelines, and technical specifications for the VOLT CRAFT MT-52 5-in-1 Digital Multimeter. Learn how to measure voltage, current, resistance, temperature, humidity, light, and sound levels.</p> |