

eSynic CNBJ-823

eSynic 6-36V DC Power Probe Circuit Tester User Manual

Model: CNBJ-823 | Brand: eSynic

1. INTRODUCTION

The eSynic 6-36V DC Power Probe Circuit Tester is a versatile diagnostic tool designed for automotive electrical systems. It allows for comprehensive testing of continuity, short-circuit detection, polarity identification, voltage measurement, and component activation. This manual provides detailed instructions for safe and effective use of the device.

2. SAFETY INFORMATION

Always observe the following safety precautions when using the circuit tester:

- Wear appropriate eye protection.
- Do not use the tester on AC voltage. It is designed for DC systems only (6-36V).
- Avoid contact with moving engine parts or hot surfaces.
- Ensure proper insulation of all connections to prevent short circuits.
- Do not use the device if it appears damaged.
- Keep hands and clothing clear of fans, belts, and other moving parts.
- The device is not waterproof. Avoid use in wet conditions.

3. PRODUCT FEATURES

- **Comprehensive Electrical Testing:** Performs continuity tests, short-circuit detection, polarity identification, ground testing, component verification, and voltage measurement.
- **Dual LED Lights & LCD Display:** Features two integrated LED lights for illumination in dark environments and an LCD screen for clear voltage readings.
- **Extended Cable & Overload Protection:** Equipped with a 4.5-meter (14.76 ft) cable for extended reach and built-in overload protection with an audible buzzer to prevent damage.
- **Wide Voltage Compatibility:** Supports DC systems from 6V to 36V, suitable for cars, SUVs, pickups, motorcycles, utility vehicles, and boats.
- **Durable Construction:** Made from high-quality ABS material, designed for operation in temperatures from -10°C to 60°C and humidity up to 80%.



Image 1: Overview of the eSynic DC Power Probe Circuit Tester with its main components labeled, including the stainless steel probe, LED lights, polarity detection LEDs, LCD screen, control switch, audible alerts, and the 4.5-meter cable with alligator clips.

4. PACKAGE CONTENTS

Verify that all items are present in the package:

- 1 x eSynic DC Power Probe Circuit Tester

- 1 x User Manual
- 1 x Storage Bag

Contenu de l'Emballage

esynic



Image 2: The eSynic DC Power Probe Circuit Tester, its 4.5-meter cable with alligator clips, a ground clip, and a soft storage bag, along with a small instruction manual. Dimensions of the probe and cable are also indicated.

5. SETUP

1. **Connect to Power Source:**

Attach the red alligator clip to the positive (+) terminal of the vehicle's battery and the black alligator clip to the negative (-) terminal or a good chassis ground. Ensure connections are secure.

2. **Power On:**

Once connected, the device will power on, and the LCD display will show the battery voltage.

6. OPERATING INSTRUCTIONS

The eSynic DC Power Probe Circuit Tester offers multiple testing functions:

6.1. Voltage Testing

Simply touch the probe tip to the circuit or component you wish to test. The LCD display will show the voltage reading. The red LED indicates positive voltage, and the green LED indicates negative voltage or ground.

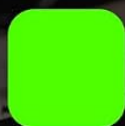
esynic

2 Lampes LED et Câbles de 4,5 Mètres

Vérification facile des composants et de la polarité



Le voyant rouge indique une polarité positive



Le voyant vert indique une polarité positive



Image 3: A hand holding the eSynic DC Power Probe Circuit Tester, with its tip touching a component in an engine bay. The LCD screen clearly displays a voltage reading of 12.5V, indicating a positive polarity.

6.2. Continuity Testing

To test for continuity, connect the ground clip to a known good ground. Touch the probe tip to the component or wire. If there is continuity to ground, the green LED will illuminate, and an audible tone may sound.

6.3. Polarity Testing

Touch the probe tip to the circuit. The red LED indicates a positive voltage, and the green LED indicates a negative voltage or ground. The LCD will display the voltage value.

6.4. Component Activation

The tester can supply battery voltage or ground to activate components. Use the control switch on the handle:

- Press the switch forward (towards the probe tip) to supply positive (+) battery voltage to the probe tip.
- Press the switch backward (towards the cable) to supply ground (-) to the probe tip.

Caution: Do not apply power or ground to sensitive electronic components (e.g., ECUs) without consulting the vehicle's service manual. Overload protection will activate if the current draw exceeds 8A, indicated by an audible buzzer.

6.5. Short-Circuit Detection

To locate a short circuit, connect the tester to the vehicle's battery. Trace the circuit with the probe tip. When the probe encounters a short to ground, the green LED will light up, and the buzzer will sound. For shorts to positive, the red LED will light up.

Fiable & Sécurisé, les Données sont Précises

esynic

Fournir une alimentation 12 V ou 24 V CC via la batterie du véhicule avec une protection contre les surcharges de 8 A



**Note : Non étanche.
À utiliser dans des
environnements secs**

Image 4: The eSynic DC Power Probe Circuit Tester being used to test a fuse box in an engine compartment. A "Not waterproof" icon is visible, reminding users to operate in dry conditions.

7. SPECIFICATIONS

Parameter	Value
Operating Voltage Range	6-36V DC

Overload Protection Current	1-8A
Voltage Accuracy	±2%
Cable Length	4.5 meters (14.76 ft)
Operating Temperature	-10°C to 60°C
Operating Humidity	≤ 80%
Material	ABS
Dimensions (Package)	26.5 x 13.3 x 4.9 cm
Weight (Package)	440 grams
Model Number	CNBJ-823

esynic

Large Compatibilité

Prend en charge le test de tous les systèmes électriques 6-36 V, camionnettes, SUV, bateaux

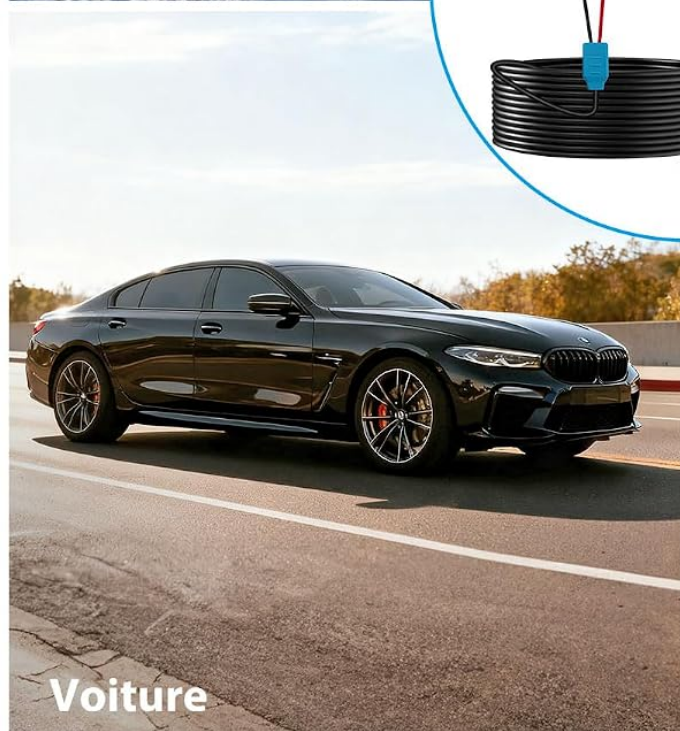


Image 5: The eSynic DC Power Probe Circuit Tester shown with various compatible vehicles including a boat, excavator, car, and motorcycle, illustrating its wide application range for 6-36V electrical systems.

8. MAINTENANCE

- Keep the probe tip clean and free from debris.
- Store the device in its provided storage bag when not in use to protect it from dust and damage.
- Avoid exposing the device to extreme temperatures or direct sunlight for prolonged periods.

- Do not attempt to disassemble or modify the tester, as this will void any potential warranty and could lead to malfunction or injury.

9. TROUBLESHOOTING

Problem	Possible Cause	Solution
No power to the device.	Incorrect battery connection; battery voltage outside 6-36V range; faulty cable.	Ensure red clip is on positive (+) and black clip on negative (-). Verify battery voltage. Check cable for damage.
LCD display is blank or unreadable.	Poor connection; extreme temperature.	Check connections. Allow device to return to normal operating temperature.
Overload buzzer sounds frequently.	Excessive current draw; short circuit in the tested component.	Reduce current draw. Inspect the component for short circuits before applying power.
Inaccurate voltage readings.	Poor contact with the test point; dirty probe tip.	Ensure firm contact with the test point. Clean the probe tip.

10. WARRANTY AND SUPPORT

eSynic products are designed for reliability and performance. For warranty information or technical support, please refer to the contact details provided with your purchase or visit the official eSynic website. Keep your proof of purchase for any warranty claims.

© 2026 eSynic. All rights reserved.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question