

NYGOXSXA B07

NYGOXSXA B07 Electrician Voltage Tester Screwdriver

Model: B07 | **Brand:** NYGOXSXA

1. INTRODUCTION

This manual provides essential instructions for the safe and effective use of your NYGOXSXA B07 Electrician Voltage Tester Screwdriver. Please read this manual thoroughly before operation and retain it for future reference.

The B07 is a compact tool designed for detecting AC voltage in the range of 100-500V. It features a neon bulb indicator and a screwdriver tip for convenience.

2. SAFETY INFORMATION

WARNING: Electrical shock hazard. Always exercise extreme caution when working with electricity.

- Do not use the tester if it appears damaged.
- Ensure the tester is clean and dry before use.
- Always assume a circuit is live until proven otherwise.
- Do not rely solely on this tester for safety. Always follow proper electrical safety procedures.
- This tester is designed for AC voltage detection within the specified range (100-500V). Do not use it for voltages outside this range or for DC voltage.
- Keep out of reach of children.

3. PRODUCT OVERVIEW

The NYGOXSXA B07 Electrician Voltage Tester Screwdriver combines a flat-head screwdriver with a non-contact voltage detector. The transparent handle houses a neon bulb that illuminates when AC voltage is detected.



Figure 1: Assortment of NYGOXSXA B07 Electrician Voltage Tester Screwdrivers. Each tool features a transparent handle with a neon indicator and a metal screwdriver tip.

INFORMATION



Model: B07

Name: Electrician Tester

Measuring range: 100-500V

Bit material: Chrome van steel

Shell material: Insulation PVC

Product Process: Neon bulb

Bit diameter: 2.5mm

Overall length: 140.7mm

Long bite: 19.9mm

Figure 2: Detailed view of the B07 tester, illustrating its overall length (140.7mm), bit diameter (2.5mm), and long bite (19.9mm). Key components include the insulated PVC shell, neon bulb, and chrome steel bit.

4. SPECIFICATIONS

Feature	Detail
Model	B07
Measuring Range	AC 100-500V
Bit Material	Steel Chrome
Bit Diameter	2.5mm
Overall Length	140.7mm (5.54 inches)
Long Bite (Blade Length)	19.9mm
Shell Material	Insulation PVC
Indicator Type	Neon Bulb

Item Weight	50 Grams (1.76 ounces)
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5. SETUP

The NYGOXSXA B07 Electrician Voltage Tester Screwdriver is ready for use out of the package. No assembly or battery installation is required as it operates on the principle of capacitive coupling with the user's body.

1. **Inspect the Tester:** Before each use, visually inspect the tester for any signs of damage, cracks, or exposed wiring. Do not use if damaged.
2. **Ensure Cleanliness:** Make sure the tester's handle and tip are clean and dry to ensure proper insulation and conductivity.

6. OPERATING INSTRUCTIONS

Follow these steps to safely use the B07 voltage tester:

1. **Hold Correctly:** Grip the insulated handle of the tester firmly. Ensure your thumb or finger is in contact with the metal cap at the top of the tester. This contact is crucial for the tester to function correctly by completing the circuit through your body (capacitive coupling).
2. **Test Known Live Source (Optional but Recommended):** If possible, first test the screwdriver on a known live AC outlet or wire within the 100-500V range to confirm it is working correctly. The neon bulb inside the handle should illuminate.
3. **Test the Circuit/Wire:** Carefully insert the metal tip of the screwdriver into the live terminal of an outlet, touch it to a bare wire, or place it against the insulation of a wire (for non-contact detection, though direct contact is more reliable).
4. **Observe Indicator:** If AC voltage is present within the specified range, the neon bulb inside the transparent handle will glow. If the bulb does not glow, it indicates the absence of voltage or voltage outside the tester's range.
5. **Confirm Absence of Voltage:** If the bulb does not glow, re-test on a known live source to ensure the tester is still functional before proceeding with work on the circuit.



Figure 3: Example of the B07 tester in use, showing the tip making contact with a surface. For voltage detection, ensure the metal cap is touched by a finger.

7. MAINTENANCE

Proper maintenance ensures the longevity and reliability of your B07 tester.

- **Cleaning:** Wipe the tester with a clean, dry cloth. Do not use abrasive cleaners or solvents. Ensure no moisture enters the internal components.
- **Storage:** Store the tester in a dry place, away from direct sunlight and extreme temperatures. Keep it protected from physical impact.
- **Inspection:** Regularly inspect the tester for any signs of wear or damage, especially the insulation and the metal tip.

8. TROUBLESHOOTING

If the neon bulb does not light up when testing a known live circuit:

- **Check Finger Contact:** Ensure your finger is firmly touching the metal cap at the top of the tester. Without this contact, the tester will not function.

- **Verify Voltage Range:** Confirm that the voltage you are testing is within the 100-500V AC range. The tester is not designed for lower voltages or DC.
- **Inspect for Damage:** Check for any visible damage to the tester. A damaged tester should not be used.
- **Environmental Factors:** Ensure the environment is not excessively humid or cold, which could affect performance.
- **Tester Malfunction:** If all other checks fail, the tester may be faulty and should be replaced.

9. WARRANTY AND SUPPORT

For warranty information or technical support regarding your NYGOXSXA B07 Electrician Voltage Tester Screwdriver, please refer to the retailer where the product was purchased or visit the official NYGOXSXA website for contact details.

Please have your product model (B07) and purchase information ready when contacting support.