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› TESMEN Electrical Tool Bundle Instruction Manual

TESMEN TN-213, TWS-322, TSM-599

TESMEN Electrical Tool Bundle Instruction Manual

Models: TN-213, TWS-322, TSM-599

1. INTRODUCTION

Thank you for choosing the TESMEN Electrical Tool Bundle. This comprehensive kit includes the TESMEN TN-213 Non-Contact Voltage Tester, the TESMEN TWS-322 Self-Adjusting Wire Stripper, and the TESMEN TSM-599 Smart Digital Multimeter. Designed for both professionals and DIY enthusiasts, this bundle provides accurate, efficient, and safe solutions for a wide range of electrical testing and wire handling tasks. Please read this manual thoroughly before use to ensure proper operation and safety.

2. SAFETY GUIDELINES

Always prioritize safety when working with electricity. Failure to follow these guidelines may result in electric shock, fire, or personal injury.

- Always assume circuits are live until proven otherwise with a reliable voltage tester.
- Wear appropriate personal protective equipment (PPE), such as insulated gloves and safety glasses.
- Do not use tools if they appear damaged or are wet.
- Ensure the correct function and range are selected on the multimeter before making measurements.
- Never exceed the maximum input limits of any device.
- Keep tools clean and dry.
- Store tools out of reach of children.

3. PRODUCT COMPONENTS OVERVIEW

TESMEN TN-213 Non-Contact Voltage Tester

Dual-Range

~ AC Voltage

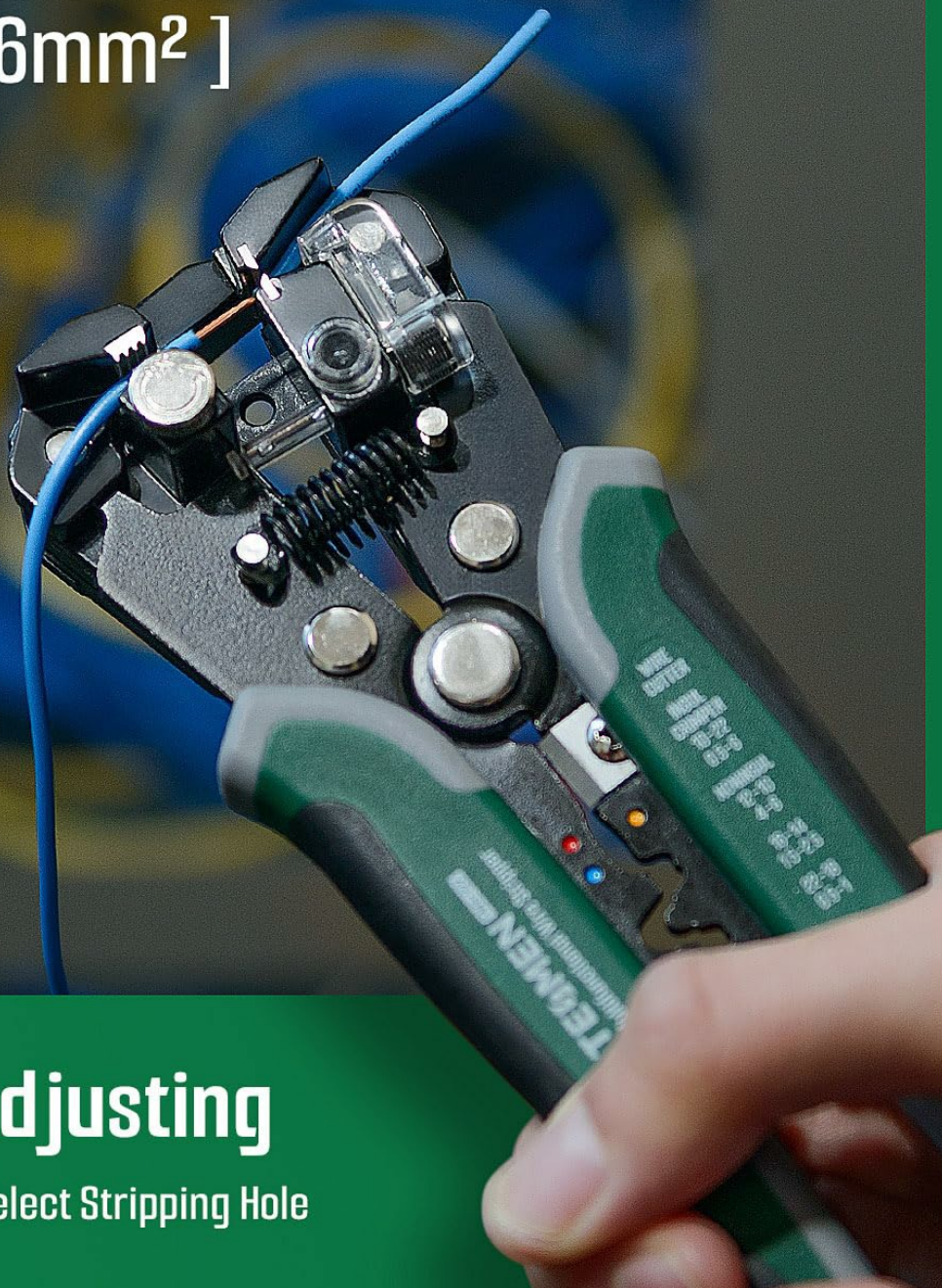


The TN-213 is designed for quick and safe detection of AC voltage without direct contact. It features dual-range sensitivity (12V-1000V and 70V-1000V) and provides visual and audible alerts for voltage presence. Ideal for identifying live wires, checking outlets, and troubleshooting electrical connections.

TESMEN TWS-322 Self-Adjusting Wire Stripper

10-24

[0.2-6mm²]



Self-Adjusting

No Need to Select Stripping Hole

The TWS-322 is a versatile tool for stripping, cutting, and crimping wires. Its self-adjusting mechanism automatically adapts to wire sizes from 10 to 24 AWG (0.2-6mm²), eliminating the need for manual adjustments. It also includes built-in wire cutting and crimping functions for insulated and non-insulated terminals.

TESMEN TSM-599 Smart Digital Multimeter

TRUE RMS 6000 Counts



AC/DC Voltage



Resistance



Continuity



Diode



Capacitance



Frequency/Duty



Temperature



AC/DC Current



Non-Contact



Live Wire

***Supports Input Jack Indicator Light**

The TSM-599 is a high-accuracy digital multimeter with 6000 counts and True RMS measurement. It offers automatic and manual modes for measuring AC/DC voltage, AC/DC current, resistance, continuity, capacitance, frequency, temperature, and diode. Features include NCV detection, data hold, backlight display, and auto shut-off for user convenience and safety.

4. SETUP AND INITIAL USE

4.1. Battery Installation (TSM-599 Multimeter & TN-213 Voltage Tester)

Both the TSM-599 Multimeter and TN-213 Voltage Tester require batteries for operation. Refer to the battery compartment on the back of each device. Ensure correct polarity when inserting batteries. Typically, the TSM-599 uses AA batteries and the TN-213 uses AAA batteries (check device markings for specific requirements).

4.2. Initial Checks

- Before first use, inspect all tools for any signs of damage.
- For the TSM-599, ensure test leads are securely connected to the correct input jacks for the desired measurement.
- For the TN-213, perform a quick test on a known live circuit to confirm functionality.

5. OPERATING INSTRUCTIONS

5.1. Using the TESMEN TN-213 Voltage Tester



Description: This image shows the TN-213 voltage tester being used to detect voltage in a standard electrical outlet, with its tip glowing red to indicate the presence of AC voltage. This demonstrates the non-contact voltage detection feature for safety.

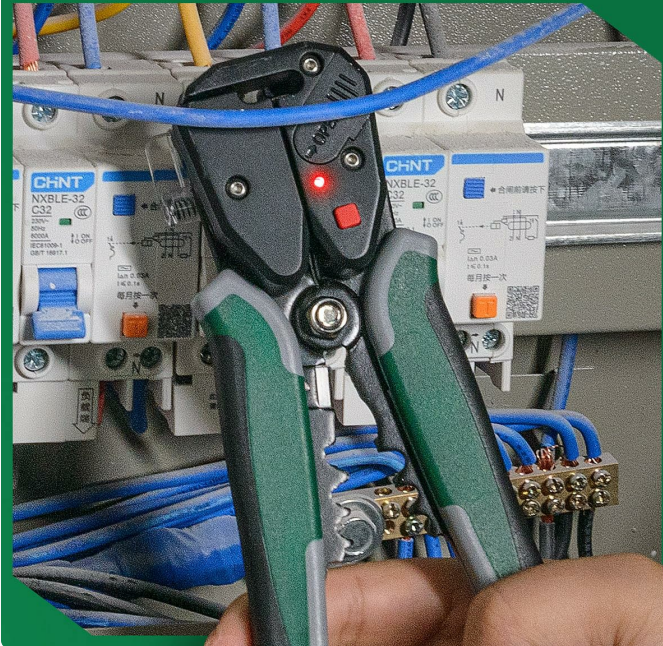
- **Power On:** Press the power button to turn on the device.
- **Sensitivity Selection:** Short press the sensitivity button to switch between high sensitivity (12V-1000V) and low sensitivity (70V-1000V).
- **Voltage Detection:** Place the tip of the tester near the wire, outlet, or circuit you wish to test. If AC voltage is detected, the LED indicator will light up and a buzzer will sound. The intensity of the light and frequency of the sound may vary with voltage strength.
- **Power Off:** The device will automatically shut off after a period of inactivity, or you can manually press the power button to turn it off.

5.2. Using the TESMEN TWS-322 Wire Stripper

Safety First



Always Test for Electricity Before Stripping.



Description: This image illustrates the TWS-322 wire stripper in action, stripping the insulation from a wire within an electrical panel. A prominent safety reminder emphasizes the importance of testing for electricity before proceeding with stripping.



Wire Cutting



Crimping

Description: This image provides a close-up view of the TWS-322 wire stripper, highlighting its integrated wire cutting and crimping capabilities. It shows a wire being cut and another being crimped, demonstrating the tool's multi-functionality.

- **Wire Stripping:** Insert the wire into the stripping jaws. The self-adjusting mechanism will automatically grip the wire. Squeeze the handles firmly to strip the insulation. Release the handles to remove the stripped wire.

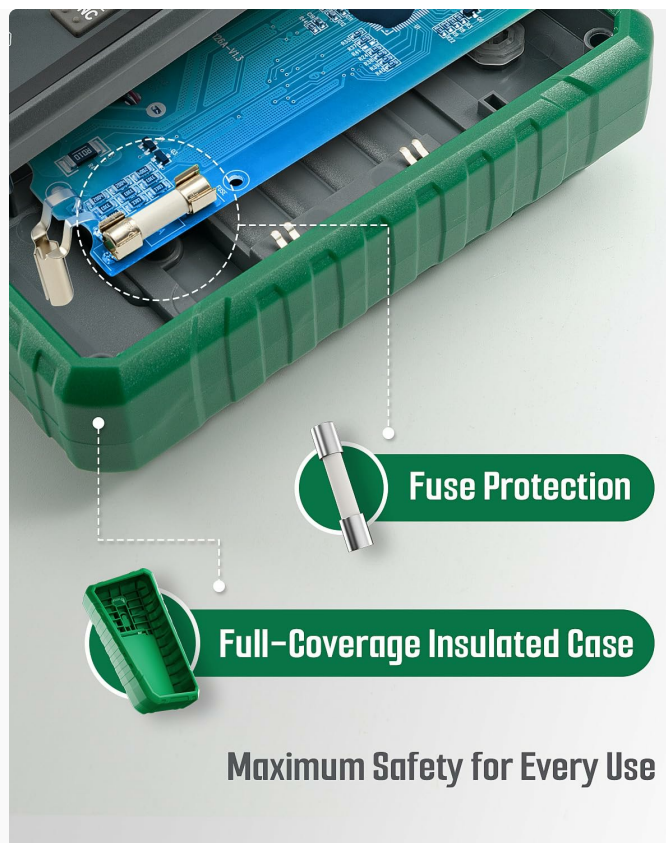
- **Wire Cutting:** Use the integrated wire cutter located near the pivot point of the handles. Place the wire in the cutting slot and squeeze the handles to cut.
- **Crimping:** The TWS-322 includes crimping dies for insulated and non-insulated terminals. Insert the terminal into the appropriate crimping slot and squeeze the handles to crimp.

5.3. Using the TESMEN TSM-599 Smart Digital Multimeter

- **Power On:** Press the power button to turn on the multimeter.
- **Function Selection:** The TSM-599 features a smart automatic mode that detects the measurement type (voltage, resistance, continuity) automatically. For specific measurements (e.g., current, capacitance, temperature), use the 'FUNC' button to cycle through modes or the rotary dial if available.
- **Connecting Test Leads:** Always connect the black test lead to the 'COM' jack. Connect the red test lead to the appropriate input jack for your measurement (e.g., 'VΩmA' for voltage/resistance/current, '10A' for high current).
- **Making Measurements:** Apply the test leads to the circuit or component being measured. The reading will appear on the display.
- **Data Hold:** Press the 'HOLD' button to freeze the current reading on the display. Press again to release.
- **Backlight:** Press the backlight button (often combined with 'HOLD' or a separate button) to illuminate the display in low-light conditions.
- **Auto Shut-off:** The multimeter will automatically power off after a period of inactivity to conserve battery life.

6. MAINTENANCE AND CARE

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the tools. Do not use abrasive cleaners or solvents.
- **Storage:** Store all tools in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Battery Replacement:** When the low battery indicator appears on the TSM-599 or TN-213, replace the batteries promptly to ensure accurate readings and proper operation. Refer to the battery compartment for type and quantity.
- **Fuse Replacement (TSM-599):** The TSM-599 is equipped with fuse protection. If the current measurement function fails, the fuse may need replacement. Refer to the device's internal diagram for fuse specifications and replacement instructions. Always use a fuse with the correct rating.



Description: This image highlights the safety features of the TSM-599 multimeter, specifically showcasing its internal fuse protection and the robust full-coverage insulated case, designed for maximum user safety.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on	Dead or incorrectly installed batteries	Replace batteries, ensure correct polarity.
TN-213 does not detect voltage	Low sensitivity selected; no voltage present; faulty unit	Switch to high sensitivity; test on a known live circuit; contact support if still unresponsive.
TSM-599 shows 'OL' or incorrect reading	Incorrect range/function; open circuit; blown fuse (for current)	Select correct function/range; check circuit continuity; replace fuse if necessary.
TWS-322 not stripping cleanly	Wire size outside range; dull blades; improper technique	Ensure wire is within 10-24 AWG; inspect blades for damage; ensure firm, consistent squeeze.

8. TECHNICAL SPECIFICATIONS

TESMEN TN-213 Voltage Tester

- **AC Voltage Range:** 12V-1000V (High Sensitivity), 70V-1000V (Low Sensitivity)
- **Frequency:** 50/60Hz
- **Alarm Mode:** Sound and Light
- **Safety Rating:** CAT.III 1000V, CAT.IV 600V

TESMEN TWS-322 Wire Stripper

- **Stripping Range:** 10-24 AWG (0.2-6mm²)
- **Cutting Function:** Yes
- **Crimping Function:** Insulated (10-22 AWG), Non-insulated (10-22 AWG)
- **Material:** High Carbon Steel

TESMEN TSM-599 Smart Digital Multimeter

- **Display:** 6000 Counts, True RMS
- **DC Voltage:** Up to 1000V
- **AC Voltage:** Up to 750V
- **DC/AC Current:** Up to 10A
- **Resistance:** Up to 60MΩ
- **Capacitance:** Up to 60mF
- **Frequency/Duty Cycle:** Yes
- **Temperature:** Yes
- **Continuity/Diode:** Yes
- **NCV Detection:** Yes
- **Safety Rating:** CAT.III 1000V, CAT.IV 600V

9. WARRANTY AND SUPPORT

TESMEN products are manufactured to high-quality standards and are warranted against defects in materials and workmanship. For specific warranty terms and conditions, please refer to the product packaging or contact TESMEN customer support. If you encounter any issues or have questions regarding your product, please visit the official TESMEN website or contact their customer service department for assistance.

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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

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