WINGONEER SOIC8 SOP8 Test Clip

WINGONEER SOIC8 SOP8 Test Clip for In-Circuit EEPROM Programming

Instruction Manual

1. Product Overview

The WINGONEER SOIC8 SOP8 Test Clip is a specialized tool designed for efficient in-circuit programming of various EEPROM chips. It eliminates the need to desolder the chip from the circuit board, streamlining the programming process for chips like the 25CXX, 24CXX, and 93CXX series. This manual provides instructions for proper setup, operation, and maintenance of the device.



Figure 1: Complete WINGONEER SOIC8 SOP8 Test Clip kit, including the clip, ribbon cable, and two adapter boards.

2. Package Contents

Verify that all components are present in the package:

- 1x SOIC8/SOP8 Test Clip with Ribbon Cable
- 2x Adapter Boards (SOP8 to DIP8)



Figure 2: The WINGONEER SOIC8 SOP8 Test Clip and adapter boards as received in their packaging.

3. Setup Instructions

Before using the test clip, ensure your programming device (e.g., EEPROM programmer) is ready and compatible with SOP8 chips via a DIP8 interface.

1. **Identify Components:** Familiarize yourself with the test clip, ribbon cable, and the two adapter boards. The ribbon cable connects the test clip to one of the adapter boards.
2. **Connect Adapter:** Insert the ribbon cable's connector from the test clip into one of the provided SOP8-DIP8 adapter boards. Ensure the red stripe on the ribbon cable aligns with Pin 1 on the adapter board.
3. **Prepare Programmer:** Insert the DIP8 pins of the adapter board into your EEPROM programmer's ZIF socket or appropriate DIP socket. Pay close attention to the orientation, ensuring Pin 1 of the adapter aligns with Pin 1 of the programmer's socket.

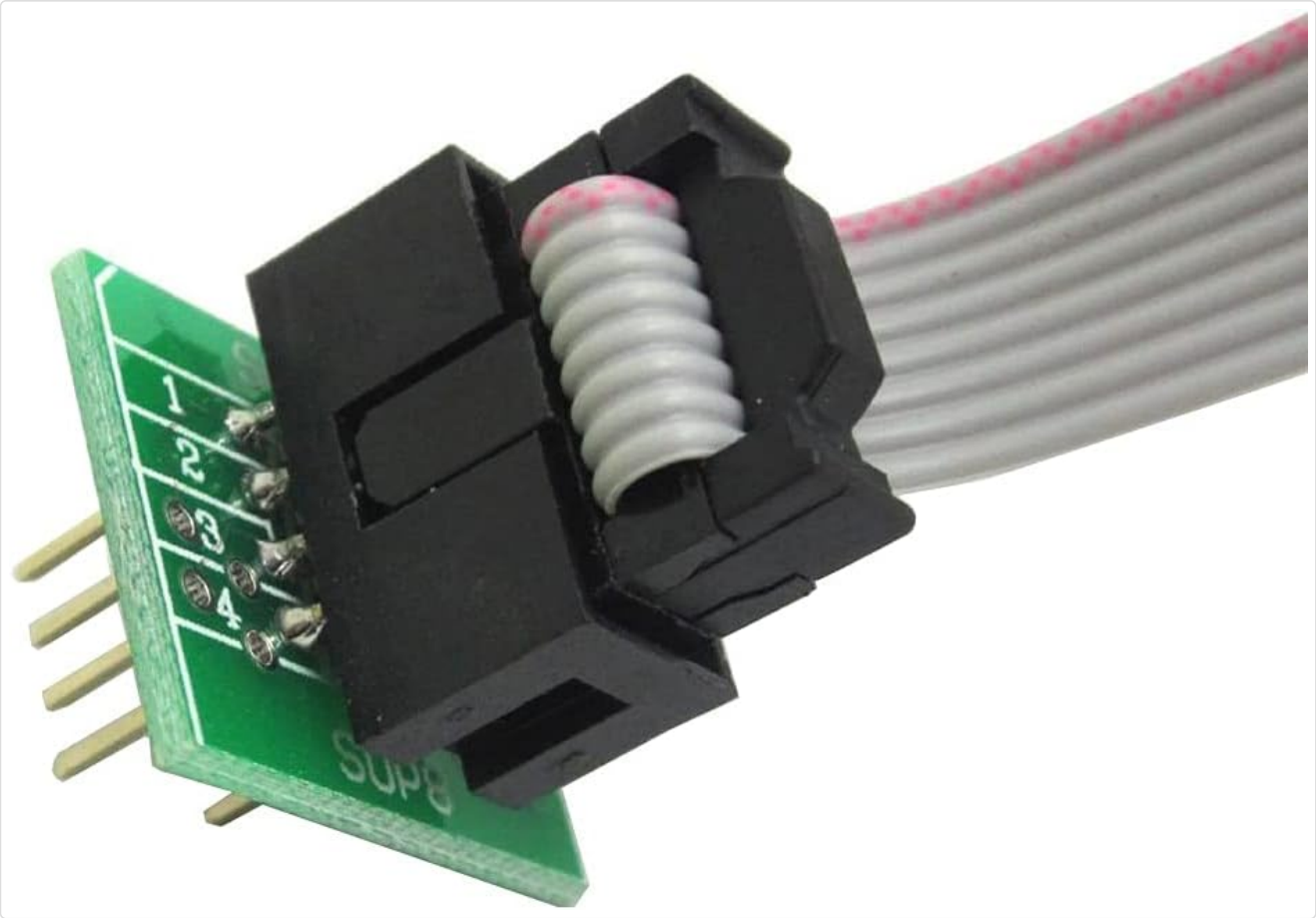


Figure 3: Detailed view of the adapter board connection, highlighting the pin orientation for correct setup.

4. Operating Instructions

Follow these steps for in-circuit programming of SOP8 EEPROM chips:

1. **Power Off Device:** Ensure the target circuit board containing the SOP8 chip is completely powered off and disconnected from any power source. This is crucial to prevent damage to the chip, the programmer, or the test clip.
2. **Locate Pin 1:** Identify Pin 1 on the SOP8 chip you intend to program. SOP8 chips typically have a small dot or a notch near Pin 1.
3. **Attach Test Clip:** Carefully align the test clip with the SOP8 chip. The red stripe on the ribbon cable connected to the test clip indicates Pin 1. Ensure Pin 1 of the clip aligns with Pin 1 of the chip. Gently press the clip onto the chip, ensuring all 8 pins make firm contact.
4. **Verify Connection:** Double-check that the clip is securely attached and correctly oriented. Loose connections can lead to programming errors or chip damage.
5. **Initiate Programming:** With the test clip securely attached to the chip and the adapter connected to your programmer, proceed with the programming operation using your EEPROM programmer software. Follow the specific instructions for your programmer.
6. **Detach Clip:** After successful programming, power off your EEPROM programmer. Carefully remove the test clip from the SOP8 chip by gently squeezing the clip and lifting it straight up.

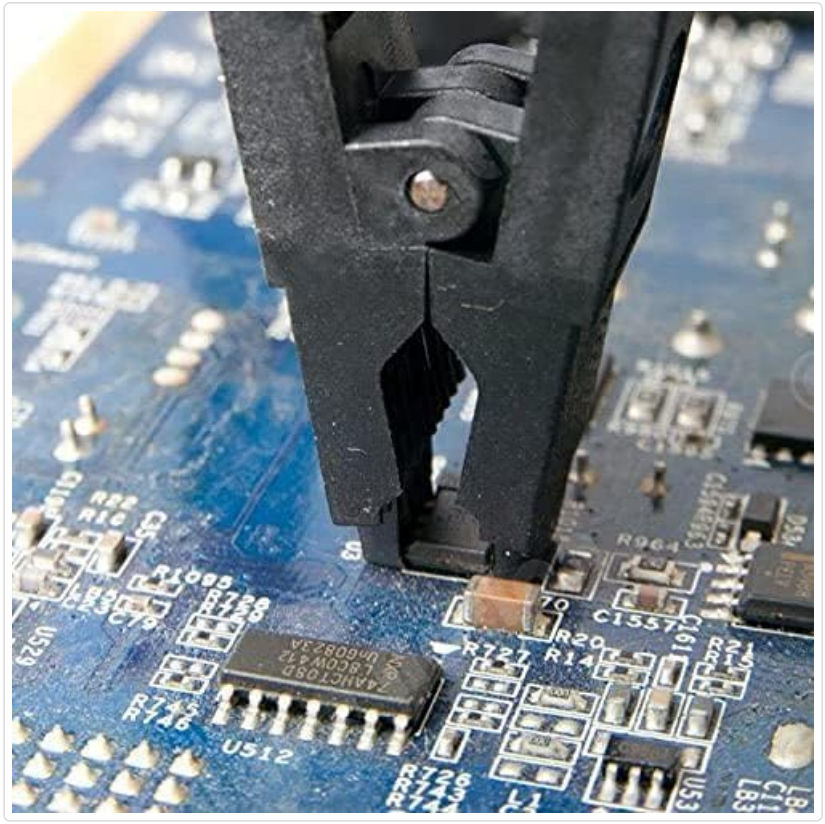


Figure 4: The test clip securely connected to an EEPROM chip on a PCB, ready for programming.

5. Maintenance

- **Cleaning:** Keep the test clip and adapter pins clean. Use a soft, dry brush or compressed air to remove dust and debris. Avoid using liquid cleaners that could leave residue or damage components.
- **Storage:** Store the test clip and adapters in a dry, dust-free environment, preferably in their original packaging or a protective case, to prevent damage to the delicate pins.
- **Handling:** Handle the test clip with care. Avoid excessive force when attaching or detaching it from chips, as this can bend or break the pins.

6. Troubleshooting

- **Programming Errors / Failed Detection:**
  - Ensure the target circuit board is completely powered off. Residual power can interfere with programming.
  - Verify the test clip is correctly aligned with Pin 1 of the SOP8 chip.
  - Check for firm contact between all 8 pins of the clip and the chip. Gently adjust the clip if necessary.
  - Inspect the pins of the test clip and adapter for any bends or damage.
  - Confirm the adapter board is correctly inserted into the programmer's socket with proper Pin 1 alignment.
  - Ensure your EEPROM programmer software is configured for the correct chip type (e.g., 25CXX, 24CXX, 93CXX).
- **Clip Not Staying Attached:**
  - The clip is designed for SOP8 packages. Ensure the chip you are attempting to program is indeed an SOP8 package.
  - Apply gentle, even pressure when attaching the clip.

7. Specifications

Feature	Detail
Brand	WINGONEER
Model Number	095225140204
Clip Type	SOIC8 / SOP8 Test Clip
Pin Format	SOIC / SOP
Compatibility	EEPROM chips (e.g., 25CXX, 24CXX, 93CXX series)
Function	In-circuit programming
Color	Black

8. Support and Warranty

For technical assistance or inquiries regarding the WINGONEER SOIC8 SOP8 Test Clip, please refer to the retailer or manufacturer's support channels. Information regarding specific warranty terms may be available through your point of purchase.

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.

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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