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› ICTOLTOL TSOP48 to DIP48 Socket Adapter Instruction Manual

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1. INTRODUCTION

This manual provides instructions for the ICTOLTOL TSOP48 to DIP48 Socket Adapter. This adapter is designed to convert 48-pin Thin Small-Outline Packages (TSOP) to 48-pin Dual In-Line Packages (DIP), enabling the use of TSOP chips with programmers that utilize DIP48 sockets. It is suitable for various applications involving NAND, NOR Flash, EEPROM, and MCU devices.

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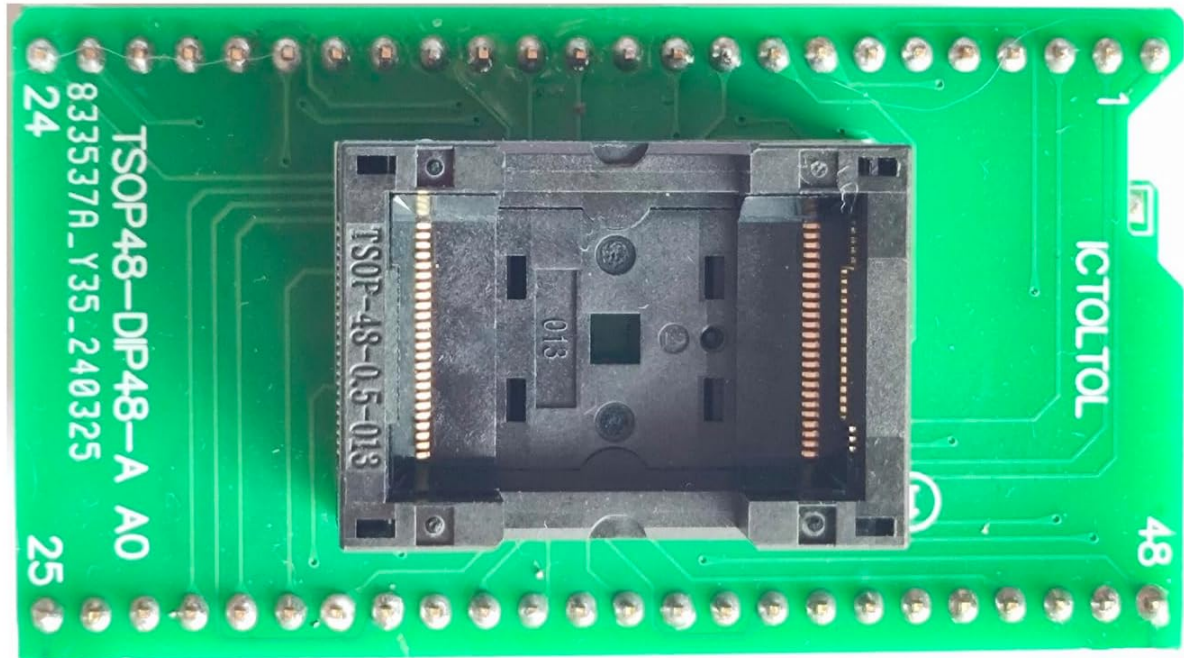


Image 1.1: Top view of the TSOP48 to DIP48 Socket Adapter, showing the open-top TSOP socket and the DIP pin arrangement.

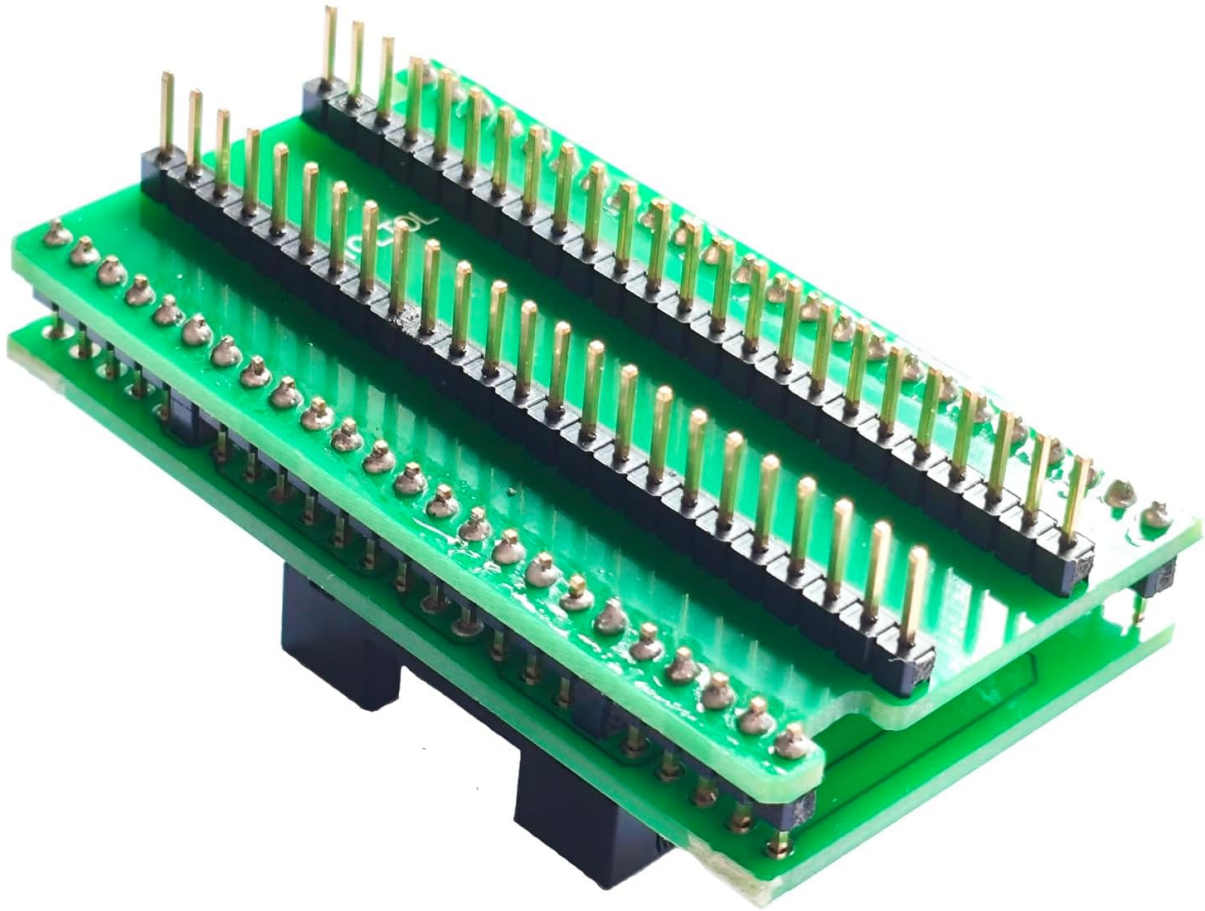
2. SETUP

The TSOP48 to DIP48 Socket Adapter is a passive component and does not require external power or software installation. Proper setup involves careful handling and correct orientation of the chip and adapter.

2.1 Preparation

- Ensure your programming device or circuit board is compatible with DIP48 packages.
- Verify the TSOP48 chip you intend to use is compatible with the adapter's specifications (e.g., pin count, package dimensions).
- Work in a clean, static-controlled environment to prevent damage to sensitive electronic components.

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All pins are golden plated ,good contact !!!

Image 2.1: Angled view of the adapter, highlighting the golden-plated DIP pins for connection to a programmer.

3. OPERATING INSTRUCTIONS

Follow these steps to correctly use the TSOP48 to DIP48 Socket Adapter:

1. **Identify Chip Orientation:** Locate the pin 1 indicator (usually a dot or notch) on your TSOP48 chip and on the adapter's TSOP socket. Ensure they align.
2. **Open TSOP Socket:** Carefully open the open-top style TSOP48 socket on the adapter.
3. **Insert TSOP Chip:** Gently place the TSOP48 chip into the adapter's socket, ensuring all pins align with the socket contacts. Do not force the chip.
4. **Close TSOP Socket:** Securely close the TSOP48 socket to firmly hold the chip in place and establish electrical contact.
5. **Identify Adapter Orientation:** Locate the pin 1 indicator on the adapter's DIP48 pins and on the DIP48 socket of your programmer.
6. **Insert Adapter into Programmer:** Carefully insert the adapter's DIP48 pins into the corresponding DIP48 socket on your programmer. Apply gentle, even pressure to avoid bending pins.
7. **Begin Operation:** Once the adapter and chip are securely connected to the programmer, you can proceed with your programming or reading operations as per your programmer's instructions.

4. MAINTENANCE

Proper maintenance ensures the longevity and reliable performance of your adapter.

- **Cleaning:** Keep the adapter clean and free from dust, debris, and solder flux. Use a soft, dry brush or compressed air for cleaning. For stubborn residue, use an electronics-safe cleaning solution and allow it to dry completely before use.
- **Storage:** Store the adapter in a dry, cool, and static-free environment. Use anti-static bags or containers when not in use.
- **Handling:** Always handle the adapter by its edges. Avoid touching the pins or socket contacts directly to prevent contamination or damage.
- **Inspection:** Periodically inspect the DIP pins and TSOP socket contacts for any signs of bending, corrosion, or damage. Bent pins can often be carefully straightened with fine-tipped tweezers, but excessive force may cause breakage.

5. TROUBLESHOOTING

If you encounter issues while using the adapter, consider the following troubleshooting steps:

- **Chip Not Detected by Programmer:**
 - Ensure the TSOP48 chip is correctly oriented and fully seated in the adapter's socket.
 - Verify the adapter is correctly oriented and fully inserted into the programmer's DIP48 socket.
 - Check for any bent or damaged pins on both the TSOP chip and the adapter.
 - Confirm that your programmer supports the specific TSOP48 chip model you are attempting to program.
- **Intermittent Connection:**
 - Carefully remove and re-insert the TSOP chip and the adapter, ensuring firm contact.
 - Inspect the contacts within the TSOP socket and the DIP pins for any foreign material or corrosion. Clean if necessary.
- **Physical Damage:**
 - If the adapter shows signs of physical damage (e.g., cracked PCB, broken socket), it may need replacement.

6. SPECIFICATIONS

Detailed technical specifications for the ICTOLTOL TSOP48 to DIP48 Socket Adapter:

Feature	Specification
Socket Type	TSOP48 Open-Top Style, Square Socket
Bottom Type	DIP48 (2 rows of 24 pins)
Adapter Dimensions (L x W x H)	62.75 x 33.23 x 32.64 mm
DIP Pin Length	6.04 mm
Compatible Chip Size (L x W)	20 mm x 12~14 mm

Feature	Specification
Item Weight	1.44 ounces (approx. 40.8 grams)
Package Dimensions	3.39 x 3.03 x 1.73 inches

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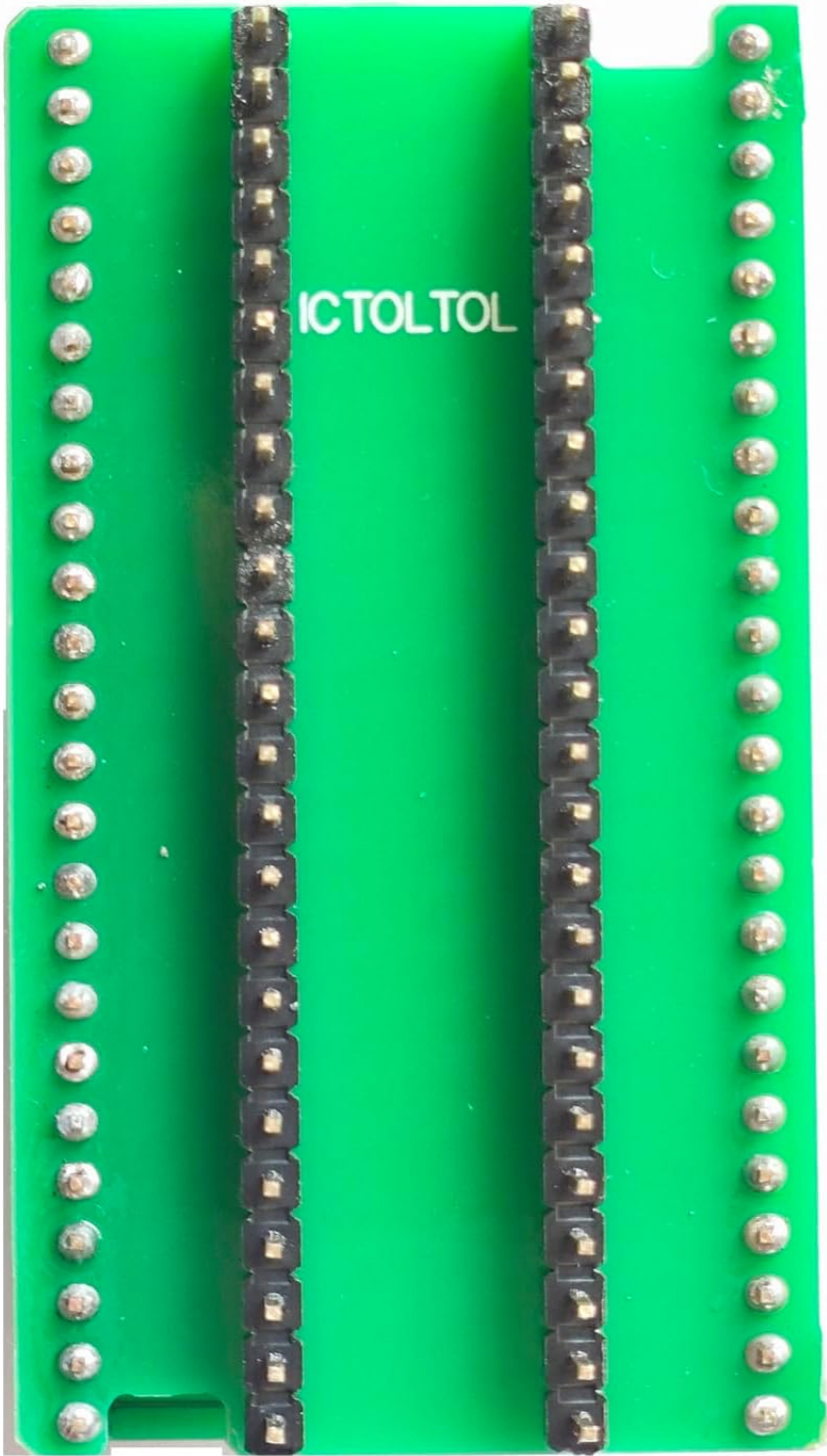


Image 6.1: Bottom view of the adapter, illustrating the DIP pin configuration.

7. WARRANTY AND SUPPORT

For information regarding product warranty, returns, or technical support, please refer to the documentation provided by your retailer or the manufacturer at the time of purchase. Keep your purchase receipt or order details handy for any warranty claims.

