

TRONWIRE TW-43

TRONWIRE TW-43 RGB LED CPU Cooler Instruction Manual

Model: TW-43

INTRODUCTION

Thank you for choosing the TRONWIRE TW-43 RGB LED CPU Cooler. This manual provides detailed instructions for the proper installation, operation, and maintenance of your new CPU cooler. Please read this manual thoroughly before installation to ensure optimal performance and longevity of your product.

PRODUCT OVERVIEW

The TRONWIRE TW-43 is an air-cooling solution designed for Intel Core i3, i5, i7, and i9 processors on motherboards with sockets 1200, 1151, 1150, 1155, and 1156. It features an aluminum heatsink with a copper core base for efficient heat dissipation, a 92mm RGB LED fan for cooling and aesthetic appeal, and a 4-pin PWM connector for intelligent fan speed control.



Image: The TRONWIRE TW-43 RGB LED CPU Cooler, showcasing its illuminated fan and heatsink design.

Key Features:

- **Compatibility:** Supports Intel Core i3/i5/i7/i9 processors on sockets 1200, 1151, 1150, 1155, 1156.
- **Cooling Design:** Aluminum heatsink with a copper core base for enhanced thermal conductivity.
- **Fan:** 92mm RGB LED fan for effective airflow and customizable lighting.
- **Control:** 4-pin PWM power connector for automatic fan speed adjustment based on CPU temperature.
- **Included:** Pre-applied thermal paste and mounting bracket.

SPECIFICATIONS

Feature	Specification
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Product Dimensions	3.62"L x 3.62"W x 2.75"H (92mm x 92mm x 70mm)
Weight	12 ounces (approx. 340g)
Compatible Sockets	Intel LGA 1200, 1151, 1150, 1155, 1156
Compatible Processors	Intel Core i3, i5, i7, i9
Cooling Method	Air Cooling
Heatsink Material	Aluminum fins with Copper Core Base
Fan Size	92mm
Fan Type	RGB LED Fan
Power Connector	4-Pin PWM
Voltage	12V DC
Wattage	95 watts (TDP)
Maximum Rotational Speed	2500 RPM
Air Flow Capacity	0.07 Cubic Meters Per Second (approx. 148 CFM)

INSTALLATION GUIDE

Before beginning installation, ensure your computer is powered off and unplugged from the wall outlet. It is recommended to work on a clean, static-free surface. Refer to your motherboard manual for specific instructions on CPU and cooler installation if needed.

Step 1: Prepare the Motherboard and CPU

- If an old cooler was installed, carefully remove it and clean any residual thermal paste from the CPU surface using isopropyl alcohol and a lint-free cloth.
- Ensure your CPU is correctly seated in the motherboard socket.

Step 2: Install the Backplate

Position the included mounting bracket (backplate) on the rear side of your motherboard, aligning the holes with the CPU cooler mounting holes around the CPU socket. The backplate provides structural support for the cooler.

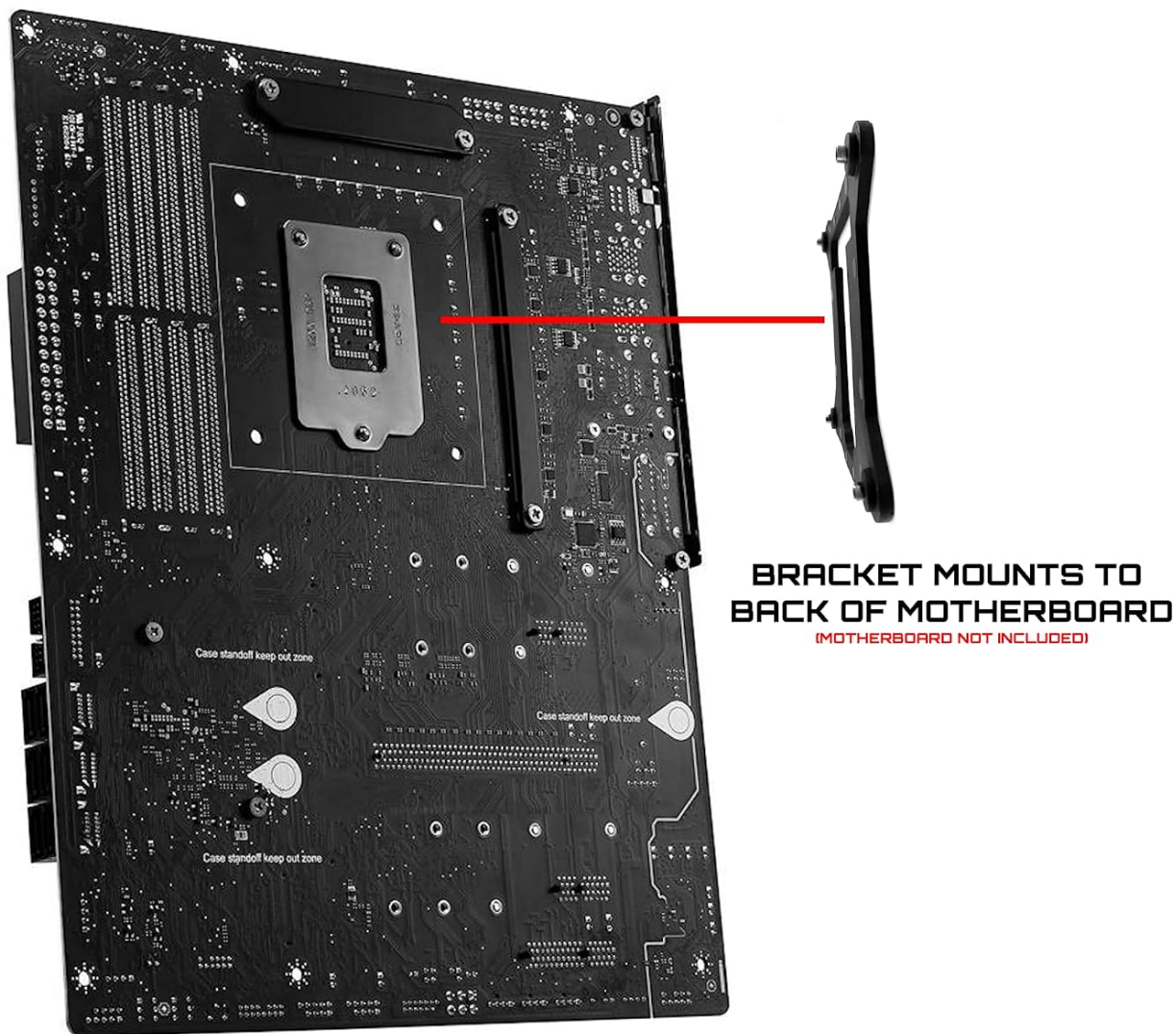


Image: Illustration of the mounting bracket being placed on the back of a motherboard, aligning with the CPU socket area.

Step 3: Apply Thermal Paste (if not pre-applied)

The TRONWIRE TW-43 cooler comes with thermal paste pre-applied to its copper base. If for any reason you need to reapply thermal paste (e.g., after cleaning or re-installation), apply a small, pea-sized amount to the center of the CPU's integrated heat spreader (IHS). Do not spread it manually; the pressure from the cooler will distribute it evenly.

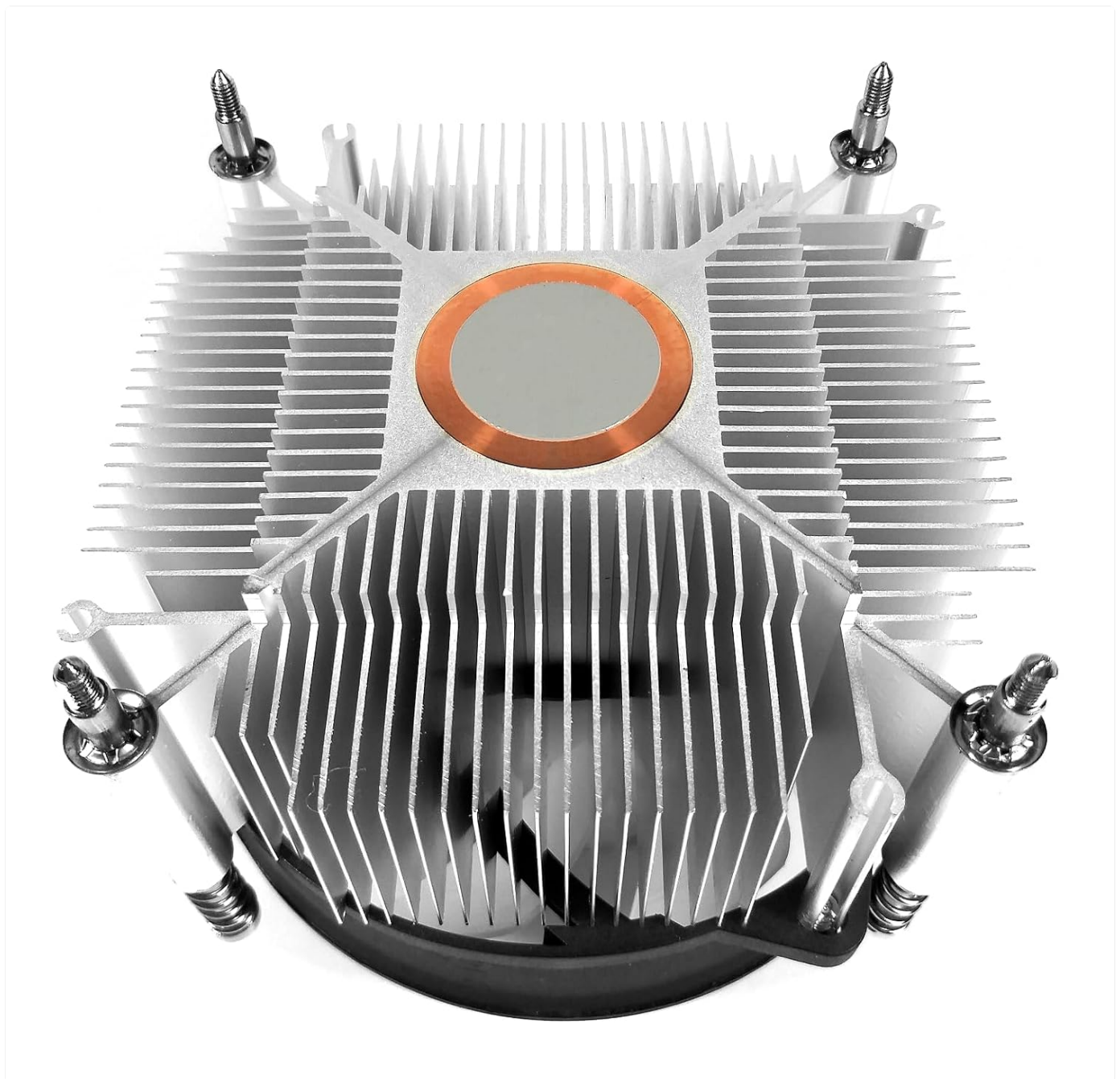


Image: The underside of the TRONWIRE TW-43 cooler, highlighting the copper core base with pre-applied thermal paste.

Step 4: Mount the CPU Cooler

1. Carefully align the cooler's mounting screws with the holes on the motherboard (which should now have the backplate supporting them).
2. Gently place the cooler onto the CPU, ensuring the base makes full contact with the CPU's IHS.
3. Tighten the four spring-loaded screws in a diagonal pattern (e.g., top-left, bottom-right, top-right, bottom-left) until they are finger-tight. Avoid overtightening, as this can damage the motherboard or CPU. The springs are designed to provide the correct mounting pressure.

Step 5: Connect the Fan Power Cable

1. Locate the 4-pin PWM fan connector on your motherboard, typically labeled "CPU_FAN" or similar.
2. Connect the 4-pin cable from the TRONWIRE TW-43 fan to this header. Ensure the connector is fully seated.

Installation is now complete. You may proceed to reassemble your computer case and power it on.

OPERATING INSTRUCTIONS

Once installed and powered on, the TRONWIRE TW-43 CPU cooler will operate automatically. The 4-pin PWM connection allows your motherboard to control the fan speed based on the CPU's temperature, ensuring efficient cooling while minimizing noise when the system is under light load.

RGB LED Functionality:

The RGB LED lighting on the fan operates automatically upon power-up, cycling through various colors. This cooler does not require additional software or a dedicated RGB controller for its lighting effects; it is a fixed, automatic RGB display.

MAINTENANCE

Regular maintenance helps ensure optimal cooling performance and extends the lifespan of your CPU cooler.

- **Dust Removal:** Periodically (every 3-6 months, or more frequently in dusty environments), power off your computer and unplug it. Use compressed air to gently blow dust out of the heatsink fins and fan blades. Hold the fan blades to prevent them from spinning rapidly during cleaning, which can damage the fan motor.
- **Thermal Paste:** The pre-applied thermal paste is designed for long-term use. Reapplication is generally only necessary if the cooler is removed and reinstalled.

TROUBLESHOOTING

Issue	Possible Cause	Solution
Fan not spinning or RGB not lighting up	Loose or incorrect power connection.	Ensure the 4-pin fan connector is securely plugged into the "CPU_FAN" header on the motherboard. Check motherboard BIOS settings for fan control.
High CPU temperatures	◦ Improper cooler mounting pressure. ◦ Insufficient thermal paste contact. ◦ Accumulated dust on heatsink/fan. ◦ Inadequate case airflow.	◦ Verify the cooler is securely mounted and screws are tightened diagonally. ◦ Re-seat the cooler, ensuring proper thermal paste application (if reapplying). ◦ Clean dust from the heatsink and fan. ◦ Ensure proper case fan configuration for optimal airflow.
Excessive fan noise	◦ Dust accumulation. ◦ Fan hitting cables. ◦ Fan operating at maximum speed unnecessarily.	◦ Clean the fan blades and heatsink. ◦ Ensure no cables are obstructing the fan. ◦ Check motherboard BIOS settings for fan speed control (PWM settings).

WARRANTY AND SUPPORT

For warranty information or technical support regarding your TRONWIRE TW-43 RGB LED CPU Cooler, please refer to the product's purchase documentation or contact TRONWIRE customer service through their official website or the retailer where the product was purchased. Please have your product model number (TW-43) and proof of purchase ready when contacting support.

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