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Thermalright LGA1700-BCF V2

Thermalright LGA1700-BCF Black V2 CPU Retainer Instruction Manual

Model: LGA1700-BCF V2 | Brand: Thermalright

1. PRODUCT OVERVIEW

The Thermalright LGA1700-BCF Black V2 CPU Retainer is an advanced accessory designed to address the issue of CPU bending on Intel LGA1700 sockets. This retainer replaces the motherboard's Integrated Loading Mechanism (ILM) to provide more even pressure distribution across the CPU's Integrated Heat Spreader (IHS), preventing potential bending and ensuring optimal contact with cooling solutions. It is constructed from high-quality aluminum alloy for durability and precision.



LGA1700-BCF BLACK V2



2. KEY FEATURES

- **CPU Bending Correction:** Specifically designed for Intel LGA1700 sockets to prevent CPU bending caused by uneven pressure from the standard ILM.
- **High-Quality Material:** Manufactured from durable aluminum alloy with an anodized sandblasting process for corrosion resistance and enhanced aesthetics.
- **Precision Engineering:** Features a unique design that ensures precise positioning and avoids contact with CPU capacitors, facilitating a smooth installation.
- **Broad Compatibility:** Supports Intel 12th, 13th, and 14th generation CPUs on motherboards with LGA1700 chipsets (H610, B660, B760, Z690, Z790 series).
- **Full-fit Installation:** Utilizes insulation protection foot pads for even pressure distribution, preventing wear on the CPU cover even after multiple installations.

Premium CNC anodized aluminum

Each Thermalright BCF is made with quality Aluminum then fine machined with CNC. The surface of BCF is finished with anodizing,



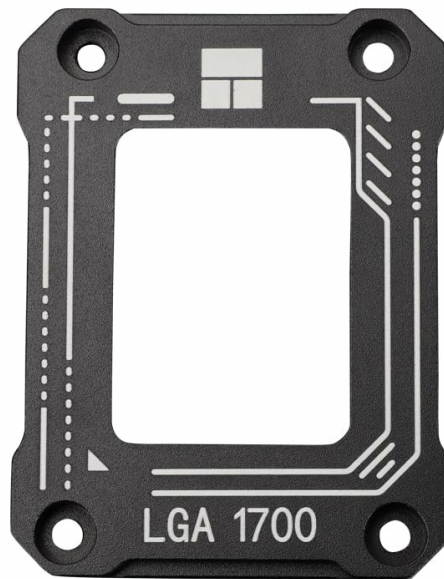
Image 2.1: Visual representation of CPU bending correction and design for compatibility.

3. WHAT'S IN THE BOX

The package for your Thermalright LGA1700-BCF Black V2 CPU Retainer includes the following components:

- 1x Thermalright LGA1700-BCF Black V2 CPU Retainer
- 1x L-shaped screwdriver (T20 screw driver)

Packing List



LGA1700-BCF BLACK V2



L-shaped screwdriver

Image 3.1: Contents of the Thermalright LGA1700-BCF Black V2 package.

4. INSTALLATION GUIDE

Follow these steps to install your Thermalright LGA1700-BCF Black V2 CPU Retainer. It is recommended to watch the installation video for a visual guide.

4.1. Installation Video

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Video 4.1: Official installation guide for LGA1700-BCF V2. This video demonstrates the step-by-step process of replacing the standard ILM with the Thermalright BCF.

4.2. Step-by-Step Instructions

1. **Prepare Motherboard:** Place your motherboard on a flat, level, and anti-static surface. Ensure the CPU is already seated in the LGA1700 socket.
2. **Open ILM:** Carefully open the motherboard's Integrated Loading Mechanism (ILM) lever.
3. **Unscrew ILM:** While the CPU remains in the socket, use the provided L-shaped screwdriver to unscrew

the four screws holding the original ILM in place. Keep these screws and the socket backplate as they will be reused.

4. **Remove ILM:** Once all four screws are removed, carefully lift and remove the original ILM.
5. **Install BCF:** Position the Thermalright LGA1700-BCF Black V2 over the CPU, aligning its mounting holes with the screw holes on the socket backplate. Ensure the BCF sits flush around the CPU.
6. **Secure BCF:** Use the original screws to secure the BCF. Tighten the screws in a diagonal pattern (e.g., top-left, bottom-right, top-right, bottom-left) to apply optimal and even mounting pressure. Do not overtighten.

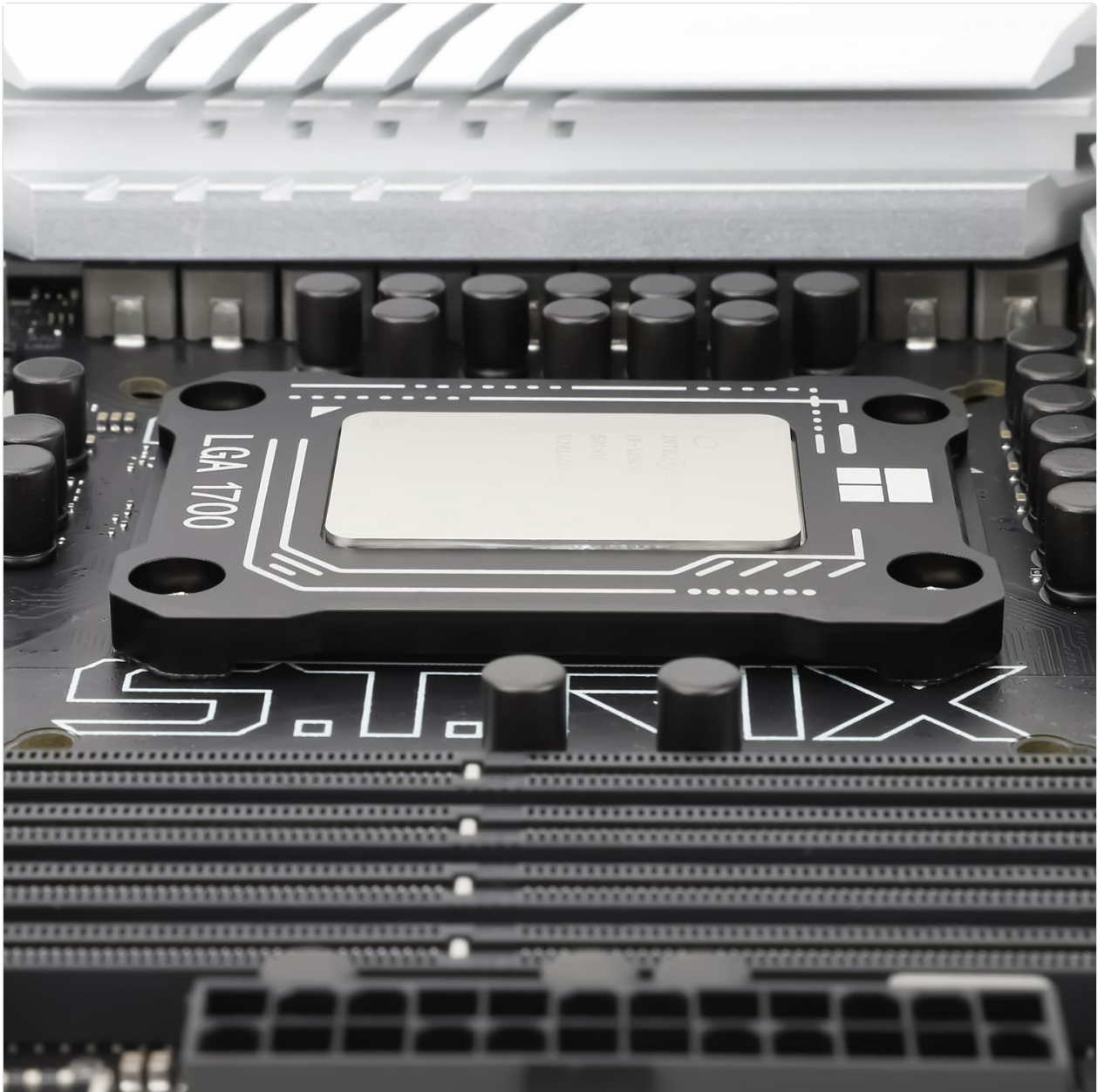


Image 4.2: Thermalright LGA1700-BCF Black V2 installed on a motherboard.



Image 4.3: Top-down view of the retainer installed, showing even pressure distribution.

5. OPERATING INSTRUCTIONS

The Thermalright LGA1700-BCF Black V2 CPU Retainer is a passive component. Once correctly installed, it functions continuously to maintain even pressure on your CPU, preventing bending and optimizing thermal contact. No further operational steps are required after installation.

6. MAINTENANCE

The CPU retainer requires minimal maintenance. Periodically, during routine PC cleaning or component upgrades, you may inspect the retainer for any dust accumulation. If necessary, gently clean the surface with a soft, dry cloth. Avoid using liquid cleaners directly on the retainer or surrounding motherboard components.

7. TROUBLESHOOTING

If you encounter issues during or after installation, consider the following:

- **Retainer Not Sitting Flush:** Ensure the CPU is correctly seated in the socket and that no debris is obstructing the retainer's placement. Verify that the mounting holes are perfectly aligned.
- **Screws Not Tightening:** Confirm you are using the original ILM screws. Ensure the screws are properly threaded into the socket backplate. Do not force screws; if resistance is met, re-align the retainer.
- **Increased CPU Temperatures:** Double-check that the retainer is installed correctly and that even pressure is applied. Ensure your CPU cooler is properly mounted with adequate thermal paste application.

For further assistance, please refer to the official Thermalright support channels.

8. SPECIFICATIONS

Specification	Detail
Product Name	LGA1700-BCF Black V2 CPU Retainer
Brand	Thermalright
Compatible CPU Sockets	Intel LGA1700
Compatible CPU Generations	Intel 12th, 13th, 14th Gen
Compatible Motherboard Chipsets	H610, B660, B760, Z690, Z790 series
Material	Aluminum Alloy
Product Dimensions (L x W x H)	2.13" x 0.24" x 2.76" (54mm x 6mm x 70mm)
Included Components	LGA1700 BCF Black V2, L-shaped screwdriver

LGA1700-BCF Dimensions



Image 8.1: Detailed dimensions of the LGA1700-BCF Black V2.

9. SUPPORT

For any questions, technical support, or assistance with your Thermalright LGA1700-BCF Black V2 CPU Retainer, please contact Thermalright customer service. Refer to the official Thermalright website or your product packaging for contact information.