

MCX159-CU™ Heatsink fan Installation Guide

Packing list

Parts	Qty	Parts specific to AMD installations	Qty	Parts specific to AMD installations	Qty
Heat Sink	1	AMD Brackets	2	Black fiber washers	6
40mm fan & screws	1	4-40 x 3/16" socket screws	2	Nylon spacers	2
Wire-Springs	2	4-40 x 1 1/4" Philips screws and mini-nuts	2	Knurled knobs	2
Thermal grease – Arctic Céramique	1	Nylon tensions limiters	2	Springs	2
Neoprene pads (strip of 4)	1	Hex wrench	1	4-40 x 3/8" socket screws	2

Pre-installation Notes

a. The MCX159-CU ships with 4 small neoprene pads. These are used for two purposes: stabilize the heatsink, and minimize the risk of damaging the processor core upon installation. These pads must be removed when installed on chipsets protected by a heat spreader. Below are examples of when to use the pads, and when NOT to use the pads:

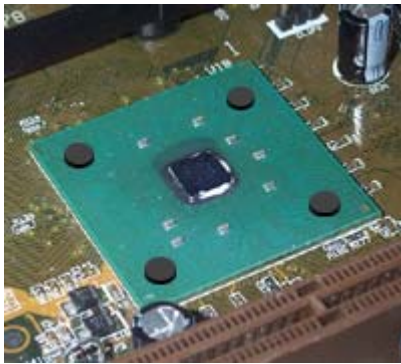


Figure 1 - Pads needed



Figure 2 - Pads not needed

b. The bracket installation and fan mounting holes are spaced differently. Be careful to use the right holes for the correct purpose as shown below:

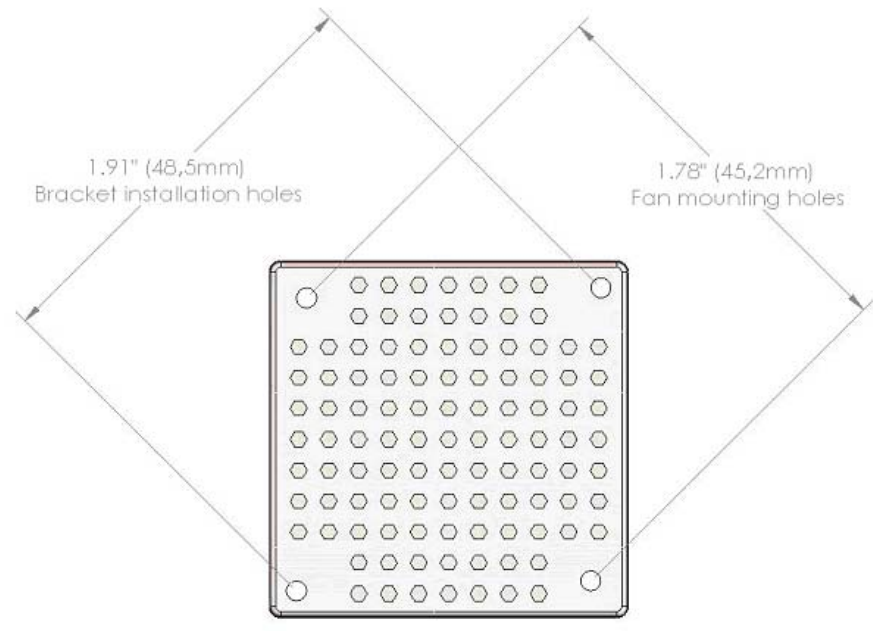


Figure 3

1. Heatsink fan Installation for Motherboards equipped with wire loops (Intel® Platforms)

- ❑ Installation does **not** necessitate removal of the motherboard from the chassis.
- ❑ Remove the existing heatsink and carefully clean the microprocessor with alcohol
- ❑ Lightly coat the CPU with the provided Céramique™ thermal compound. Follow this link http://www.arcticsilver.com/ceramique_instructions.htm for detailed instructions.
- ❑ Remove the fan from the heatsink, and engage both wire-clips in the centermost row of pins as shown below:

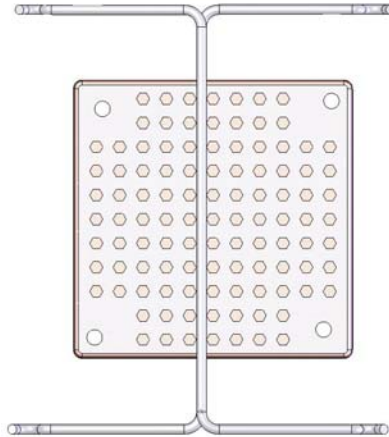


Figure 4

- ❑ Re-install the fan onto the heatsink.
- ❑ Apply the provided neoprene pads onto the chipset if applicable (see figures 1 and 2 page 1)
- ❑ Fasten the heatsink onto the chipset as shown below by simply engaging one end of the hook into a motherboard retention loop then engaging the opposite hook, and repeating the process for the second clip. Then, make sure to center the heatsink between the arms of the wire-clips.

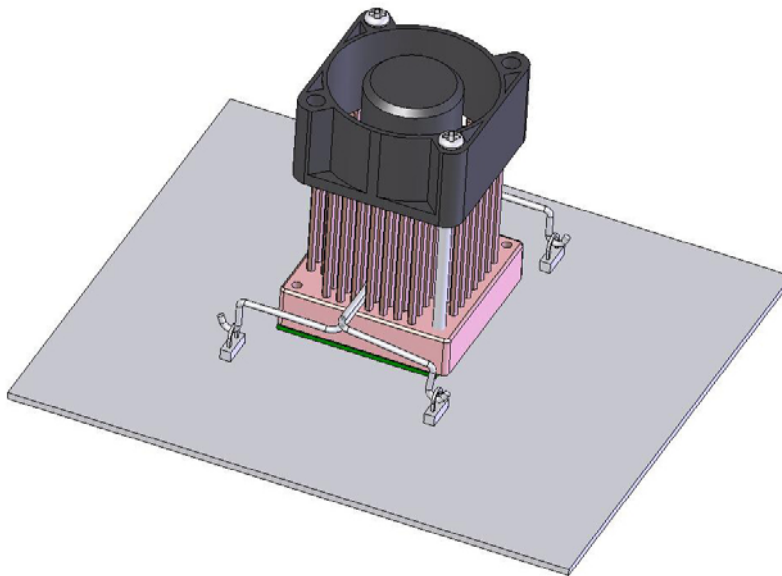


Figure 5

- ❑ Finally, connect the fan to an available 3-pin power connector on the motherboard. Note that this fan does not feature an RPM sensor. If applicable, you should therefore turn-off the Bios monitoring functions for the header in use with this fan.

Installation is complete!

2. Heatsink fan installation thru motherboard holes (mostly AMD®, some Intel platforms)

2.1 Pre-installation steps

- ❑ Installation of the heatsink always necessitates removal of the motherboard from the chassis.
- ❑ Remove the existing heatsink and carefully clean the microprocessor with alcohol
- ❑ Apply the provided neoprene pads onto the chipset if applicable (see figures 1 and 2 page 1)

2.2 Installation of the mounting posts

- ❑ Follow Figure 6 below to install the retention posts: install two 4-40 x 1.25" Philips screws with fiber washers on both sides of the motherboard, and secure them with the provided 4-40 mini-nuts.

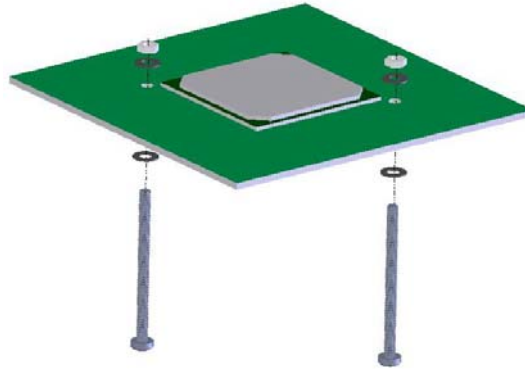


Figure 6

2.3 Heatsink assembly

- ❑ Please refer to figure 3 page 1 to identify the adequate mounting holes for the brackets.
- ❑ The heatsink brackets can be installed in two different fashions to allow more or less clearance with neighboring components:
 - a. Bracket will be attached directly onto the heatsink as shown in figure 7.
 - b. A spacer will be placed between the bracket and the heatsink to position the bracket higher, and allow clearance for capacitors in some motherboards (Asus A8N-SLI for example), as shown in figure 8.
 - c. To determine which of the above will be used, simply place the heatsink on the chipset, and visually identify possible clearance issues.

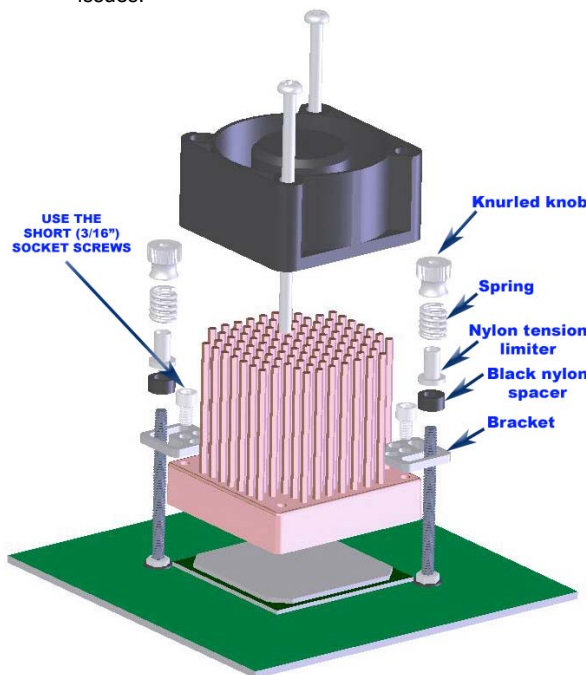


Figure 7

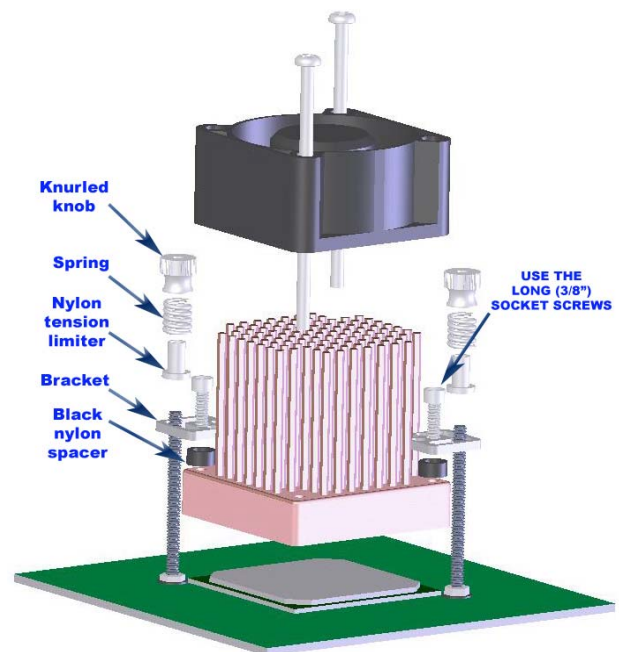


Figure 8

2.4 Fasten the heatsink to the motherboard

- ❑ Lightly coat the CPU with the provided Céramique™ thermal compound. Follow this link http://www.arcticsilver.com/ceramique_instructions.htm for detailed instructions.
- ❑ Fasten the heatsink to the motherboard as shown in figure 7 or figure 8 as appropriate. Gently tighten the knurled knobs incrementally until resistance from the tension limiter is felt.
- ❑ Finally, connect the fan to an available 3-pin power connector on the motherboard. Note that this fan does not feature an RPM sensor. If applicable, you should therefore turn-off the Bios monitoring functions for the header in use with this fan.
- ❑ Re-install the motherboard into chassis.

Installation is complete!

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