

# MCX462+™ Heatsink AMD® Installation Guide

## Packing list

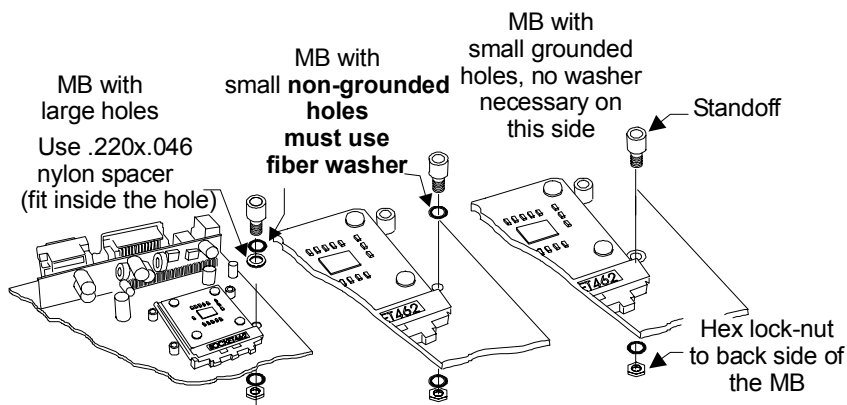
Parts	Qty	Parts	Qty
Heat Sink	1	Standoffs	4
6-32 x 2" screws (for 70mm fan)	4	.220x.046 Nylon spacers (for motherboard)	4
Snap-rivets (for 80mm fan and fan-guard)	4	6-32 Hex Lock-Nuts (for motherboard)	4
Spring assembly – pre-installed	4	Black fiber washers (for motherboard)	10
.230x.096 Nylon spacers – pre-installed	4	Thermal grease – Arctic Alumina	1

### I. Preparing the motherboard

1. **You must uninstall** your MB prior to installing the MCX462+™ heat sink.
2. **Install standoffs in MB**

Determine which standoff washers to use, depending on the mounting holes sizes of your particular MB model:

- Large holes .230"(5.8mm) diameter, use in the following order: standoff, black fiber washer, .220x.046 Nylon spacers (fits inside the MB hole), then on the other side of the MB, black fiber washer, and lock-nut.
- Small **grounded** holes .150"(3.8mm) diameter (you can recognize grounding by a silver ring around the holes), use in the following order: standoff directly to the MB (black fiber washer is NOT necessary), then on the other side of the MB, black fiber washer, and lock-nut.
- Small holes, **NOT grounded** (bare circuit board): you **must** use black fiber washers, or damage to the MB may occur: use in the following order: standoff, black fiber washer, then on the other side of the MB, black fiber washer, and lock-nut.



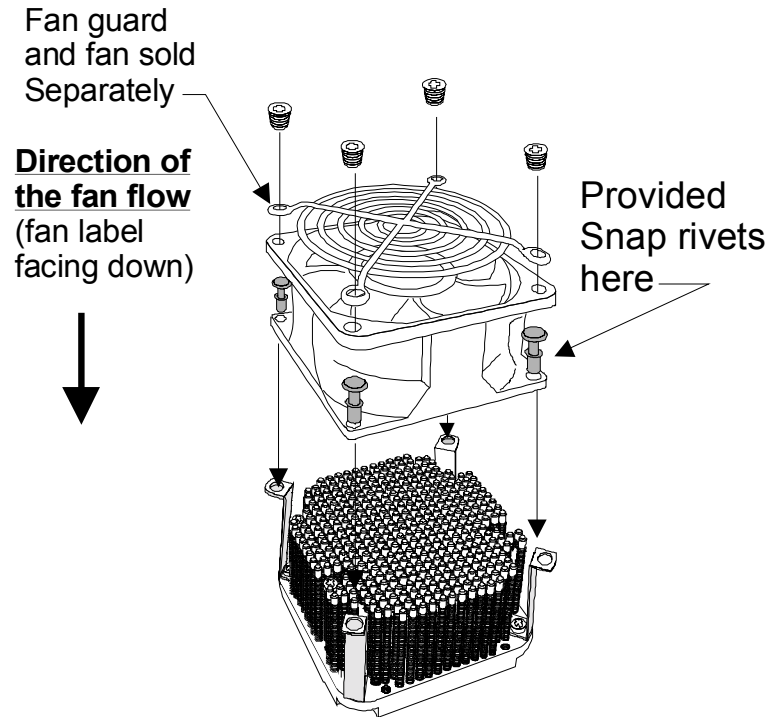
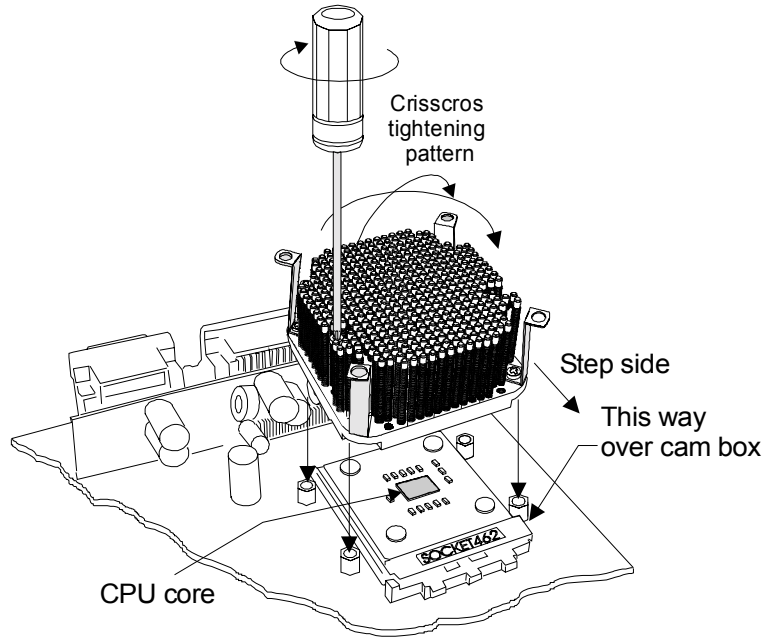
Install standoff in each one of the four holes surrounding the socket. Keep the standoff & washer centered over the MB holes, and secure with hex lock nuts on backside of the MB.

3. **Re-install the MB** inside the case.

### II. Heat sink Installation

1. **The case should** be laying flat on a table.
2. **Insert the processor** into the socket, and lightly coat the processor core with the provided Arctic Alumina® thermal compound. **Only a paper thin coat is necessary.** It should be applied using preferably a razor blade, or a credit card, held between thumb and index at a 45° angle. It is critical to ascertain that the entire core is covered with a uniform coat of thermal compound. Thermal performance will dramatically decrease if any portion of the core is not covered by thermal compound.

- Place the MCX462™ heatsink over the CPU as shown in the schematic to the right. The step side should be located over the socket's cam box. **Keep the heat sink mounting screws lined up with the standoffs.** Tighten the mounting screws in a crisscross pattern until the screws bottom out into the standoff.



4. **70mm and 80mm Fan installation::**

- ❑ 80mm fan: use the provided snap-rivets as shown in schematic to the right.
- ❑ 70mm fan: remove the 4 fan brackets held by Philips screws, and use the set of four 6-32 x 2.00" screws provided with your spare parts.

5. **Recommended fans**

The MCX462+ accommodates 70 and 80mm fans in order to provide users with the widest range of possibilities depending on their application.

Suggested fan airflow rating for normal use (non-overclocked processor), and operating conditions: 30 to 45CFM

Suggested fan airflow rating for extreme operating conditions, such as overclocked processors or unusually high ambient temperatures: 45CFM and above

**III. Final inspection**

Now that the heat sink is installed, startup your computer, go into the BIOS and observe the CPU temperature. Under normal ambient temperature conditions, the processor temperature should never exceed 55° C (130 ° F). If it does, shut down the computer immediately, and review your entire installation. Troubleshooting help is available on our web site at [www.swiftnets.com](http://www.swiftnets.com), or by calling customer support at 562-595-8009.

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