MCX4000™ Heatsink Installation Guide
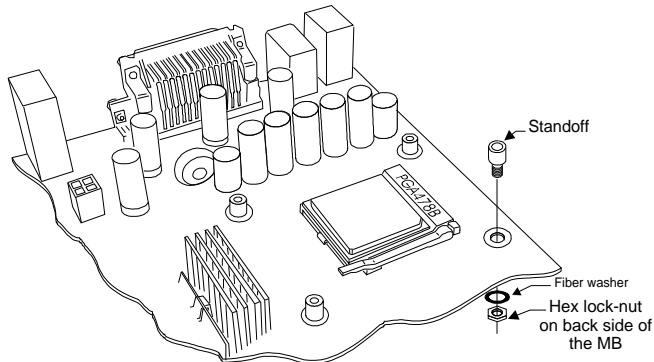## For Intel® Pentium® 4 Processors
Packing list

Parts	Qty	Parts	Qty
Heatsink MCX4000 rev 1	1	Steel Standoffs	4
Spring assy. (pre-installed)	4	Hex 6-32 lock-nuts	4
6-32 x 2 1/4" screws for 70x15mm fans	4	Fiber washers	8
6-32 x 2 ½" screws for 80x25mm fans	4	Thermal grease	1
6-32 x 1 ½" screws for other 80mm fans	4	Fan brackets	4
6-32x1/4" Philips screws	4	Snap rivets	4

I. Preparing the motherboard
1. **You must uninstall your MB** prior to installing the MCX4000 heatsink.
2. **Install standoffs in MB**.

Standoff

Fiber washer

Hex lock-nut on back side of the MB

❑ Remove Intel® stock retention frame.
❑ Install standoff in each one of the four holes surrounding the socket. Keep the standoff centered over the MB holes, and secure with fiber washer and lock-nuts on backside of the MB.
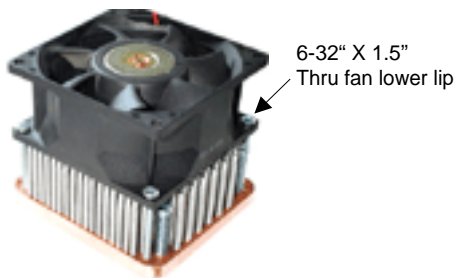
II. **Heatsink Installation**

Insert the processor into the socket, and lightly coat the core with the provided 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. Thermal performance will dramatically decrease if any portion of the core is not covered by thermal compound.

❑ **Place the MCX4000™ heatsink over the CPU** as shown in the picture to the right. Keep the heatsink mounting holes lined up with the standoffs. Tighten the screws gradually in a crisscross pattern until you feel that they reach the bottom of the standoff. A "finger-tight" lock is sufficient.
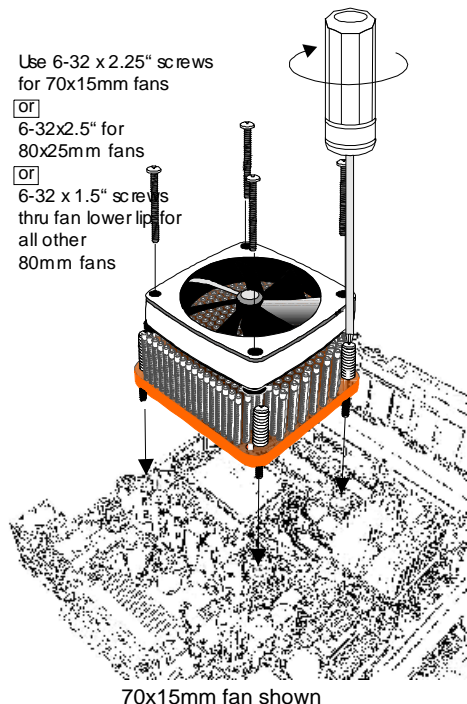
❑ **Fan Installation**:
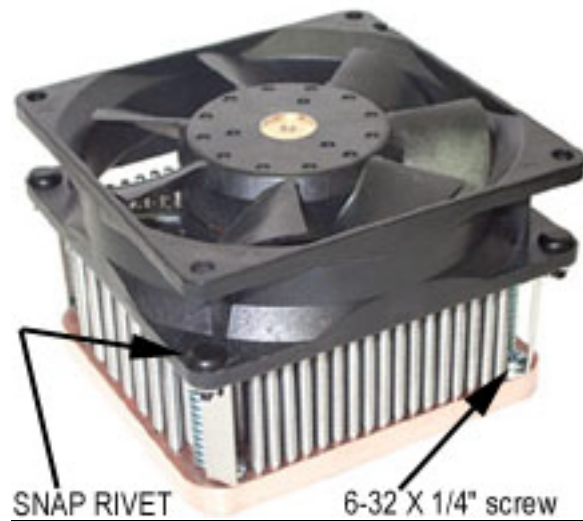Use the following provided hardware depending on the fan:

6-32 x 2.25" screws for 70x15mm fans
6-32x2.5" for 80x25mm fans
6-32 x 1.5" **_thru the fan lower lip_** for all other 80mm fans.

6-32" X 1.5"
Thru fan lower lip

Tighten heatsink to MB in criss-cross pattern

Use 6-32 x 2.25" screws for 70x15mm fans
or
6-32x2.5" for 80x25mm fans
or
6-32 x 1.5" screws thru fan lower lip for all other 80mm fans

70x15mm fan shown

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❑ **90MM fan brackets**: install the 4 brackets provided with your hardware package into the 80mm fan mounting holes. Use the provided 6-32 x 1/4" philips screws to fasten the brackets to the heatsink, and the black plastic snap rivets to fasten the fan to the brackets.

SNAP RIVET   6-32 X 1/4" screw

III. Final inspection

Now that the heatsink 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 60° C (140 ° 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, or by calling customer support at 562-595-8009.

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