



# MCX775-V™ Heatsink

Installation Guide For Intel® Pentium™ 4 processors

### Packing list

Parts	Qty	Parts	Qty
MCX775-V™ Heat Sink	1	Snap-rivets	4
Standoffs	4	7/64 hex key	1
6-32 lock-nuts	4	Céramique™ Thermal compound	1
Fiber washers	10		

### MCX7765-V exploded view

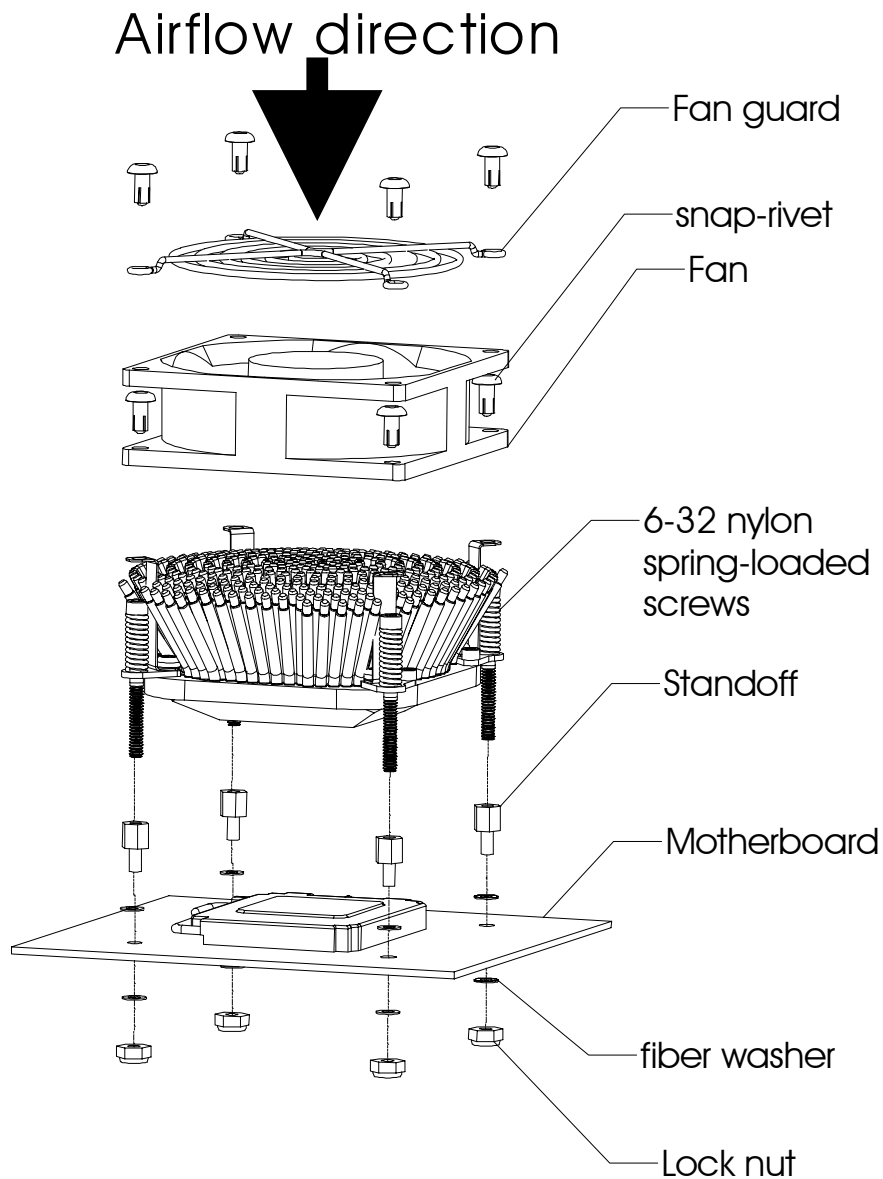


Figure 1

1. Motherboard preparation

- a. Remove the motherboard from the chassis
- b. Install the standoffs through the holes, using fiber washers and locknuts as shown in figure 1 and tighten as follows:



Figure 2

Using preferably a 1/4" socket tool to drive the standoff, hold the locknut with a small pair of pliers to prevent the locknut from spinning. Locknuts contain an embedded nylon insert designed to prevent the nut to loosen. For this reason, locknuts do not spin freely on the screw thread. This is normal. Simply tighten the nut by overcoming the slight resistance exerted by the nylon insert, until the standoff/nut assembly is secured on the motherboard, and apply a final lock without excessive force (otherwise the standoff stem may snap). Torque value should not to exceed 16 in. lbs.

- c. Lightly coat the processor core with the provided Céramique™ Thermal compound (comprehensive instructions and tips with respect to application of the thermal compound may be found here: <http://www.arcticsilver.com/instructions.htm>)

2. Heatsink installation

- Do not install the fan onto the heatsink yet.** Installation of the heatsink onto the processor requires that the fan be installed last.
- Position the heatsink onto the processor as shown in figure 1, aligning the retention screws with the standoffs.
- Engage the provided 7/64 hex-key through the fan retention bracket to reach the spring-loaded retention screws.
- Tighten the screws in a cross sequence: 1 – 3 – 2 – 4 as shown in figure 3, following the procedure described below:
- Hold the heatsink in the center to prevent it from tilting as shown figure 4. Start tightening screw #1 by two turns, then reach screw #3 and tighten it by two turns. You can release your hold on the heatsink once these first two screws have been engaged. Be careful not to cross thread! Screws should spin relatively freely into the standoffs except for the resistance created by the spring.
- Continue to gradually tighten all 4 screws until you feel that they have reached the bottom of the standoff. You can feel that they have reached the bottom once the nylon screws start twisting on their axis. Additional torque at this point is not necessary, and would only result in the Hex-key spinning inside the screw socket head (which will ultimately damage the screw).

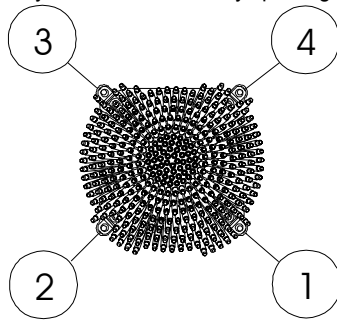


Figure 3

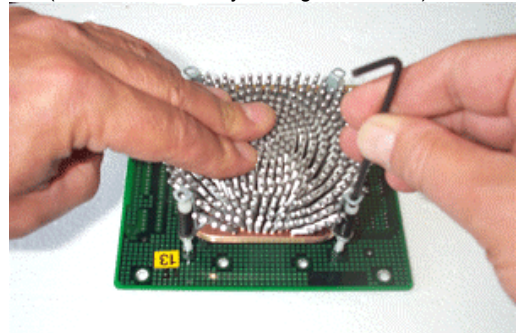


Figure 4

- The heatsink is now securely attached to the motherboard, and you can proceed with the fan installation, using the 4 snap-rivets included in your hardware package. Fan should always be positioned to blow downwards.

3. **Heatsink removal: Warning! Hydraulic suction causes the heatsink to strongly adhere to the processor. Do not attempt to lift the heatsink off without loosening its bond from the processor first!**

- Use the provided 7/64 hex key to very gradually unscrew the 4 socket screws in a cross pattern.
- Hold the heatsink between finger and index, and gently wriggle it to loosen it from the CPU (do not use excessive force when wriggling the heatsink)
- Once the CPU is loosened from the heatsink, slide it off in the horizontal plane as much as space permits, and then lift it up.
- Clean the surface of the CPU and the heatsink to get rid of old thermal compound. Reapply the proper amount of thermal compound on the CPU surface before you re-install the heatsink.

**IMPORTANT DISCLOSURES**

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