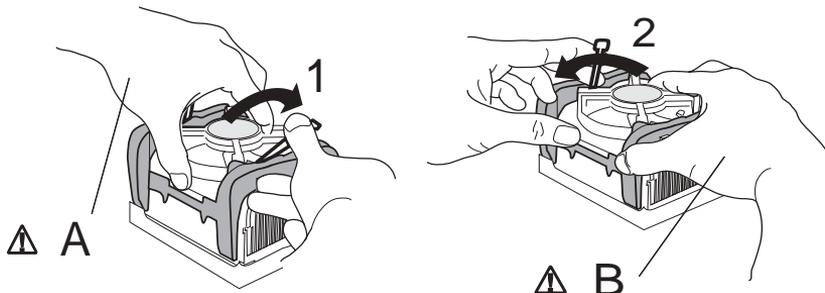


# Attention!

This flyer contains critical information on installing the fan heatsink and clip assembly for the boxed Intel® Pentium® 4 processor in the 478-pin FC-PGA2 package. It is very important that you comply with all instructions and warnings to ensure proper functionality of the fan heatsink.



When installing the fan heatsink and clip assembly, it is important to not allow the heatsink to rotate or twist on the processor. Securing the fan heatsink while closing the clip levers will ensure the thermal interface material is not damaged and the processor will operate correctly (the thermal interface material, between the processor and heatsink, is attached to the heatsink).

Make sure to close the clip levers one at a time. Close the clip lever (1), while holding the topside of the fan heatsink with your other hand (A). Then, close the clip lever (2), while holding the topside of the fan heatsink with your other hand (B).

Prior to installing this product, please check for the latest information on the Pentium 4 processor at the following website:

**URL:** <http://support.intel.com/support/processors/pentium4/>

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Part Number A69401-001  
First Edition August 2001

# Attention!

Intel designed this thermal solution to ensure adequate cooling of your boxed Intel® Pentium® 4 processor in the 478-pin package. The thermal solution also provides increased shock and vibration protection during normal shipping and handling of assembled systems. To accomplish this, the thermal solution provides controlled compression on the processor and socket. This compression results in curvature in the motherboard. Therefore, to ensure proper installation and maximum reliability:

- Intel recommends that system integrators select only chassis with a minimum clearance of 0.250" [6.35mm] between the underside of the motherboard and the bottom of the chassis in order to guard against contact between the motherboard and the chassis.
- Do not use additional board stiffening devices (typically installed underneath the motherboard) with this thermal solution. Stiffening devices may significantly increase the compression and cause permanent damage to the processor or the board.

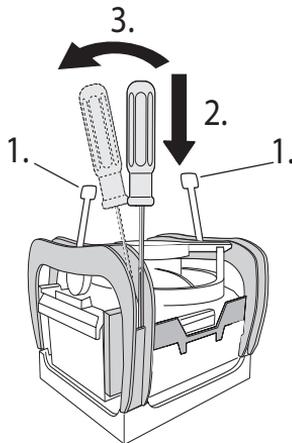
More information on integration considerations for the boxed Pentium 4 processor can be found at: <http://support.intel.com/support/processors/pentium4/tti016.htm>

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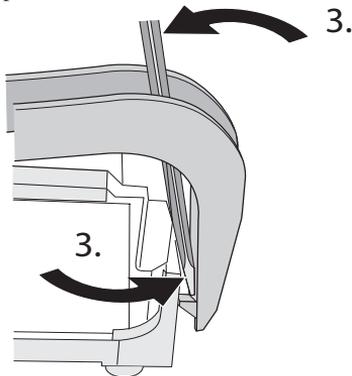
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First Edition October 2001

**⚠ Attention!**



1. Open both clip levers.
2. Insert flat head screwdriver between fan shroud and clip frame. Push screwdriver down until it hits the clip hook.



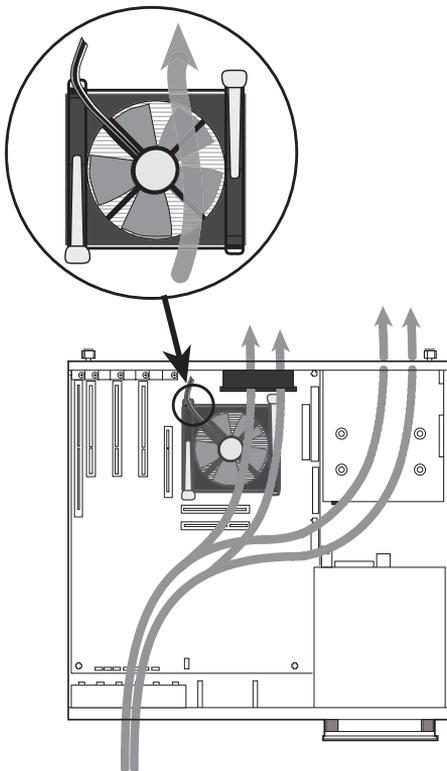
3. Push down on the clip hook and simultaneously rotate the screwdriver towards the fan heatsink to free the clip hook from the retention mechanism (RM). Repeat this process for the remaining clip hooks. Then, remove the fan heatsink.

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## **Attention!**

To take advantage of the acoustic benefits of this variable speed fan heatsink included with your Intel® Pentium® 4 processor, be sure to orient your processor fan heatsink with the fan cable positioned relative to the system airflow direction, as shown in example. (The internal system airflow direction may vary depending on your chassis configuration.)



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