

CPU_Cooler

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Chapter 1

CPU_Cooler

1.1 Fitting a Replacement CPU Cooler To Apollo 1240/25 Card

Fitting a Replacement CPU Cooler To Your Apollo 1240/25Mhz Card

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Important!

Due to the size of a 486 CPU cooler, you should only attempt to fit it to your Apollo 1240 card if you have your Amiga installed in a tower case. If your Amiga is still in it's original case, then don't bother - otherwise you'll find you won't be able to fit it back in your machine!

Warning!

This article I have written details how to fit a replacement CPU cooler to an Amiga 1200 trapdoor fitting Apollo 1240/25 card. You should not carry out this modification if your accelerator is still under guarantee. It is important to take any ESD precautions - wear a wrist band earthing strip, or touch a metallic object to help disperse any static electricity: static electricity can kill microchips! This modification is easy enough to do, but if you are unsure, find a colleague with the necessary experience who is willing to undertake the job for you.

About:

I had a problem with my Apollo 1240 card: the guarantee had expired, and one of the heatsinks had come loose, hence, when the fan was in operation, it was causing one of the heatsink to vibrate on the 68040 on the card. As a result, I decided to fit a 486 CPU cooler to the 68040 on my Apollo 1240/25. However, you might like to consider this modification, since the original fan and small heatsinks on the card are hardly adequate, and without a descent fan, you run the risk prohibiting the life of the processor.

I going to tell you:

How to fit a replacment CPU cooler to your Apollo 1240/25Mhz accelerator card.

You will need:

- 1) a 486 CPU cooler (as used in crappy IBM PCs). (Avalible from Maplin electronics)
 - 2) Some heat transfer/heatsink compound (availble from Maplin Electronics).
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- 3) Some superglue.
- 4) Phillips screwdriver (posi-driver)
- 5) Flatbladed screwdriver.

Now to fit the 486 CPU cooler to your Apollo 1240/25 accelerator:

- 1) *Carefully* remove your Apollo card from the trapdoor slot.
- 2) Using a phillips screwdriver, remove the screws attaching the original fan to the two heatsinks on your Apollo 1240/25 card.
- 3) Once the fan's removed, carefully tap the two heatsinks with a flatbladed screwdriver until both are removed (be very careful when doing this!), they should come off relatively easy, due to the fact that the manufacter could'nt be bothered using the proper adhesive.
- 4) Cut off the power leads connecting the Original fan on your Apollo card.
- 5) Remove the retaining clips from the 486 CPU cooler you just bought from Maplins. Since there's no way of clipping it onto the 68040 processor on your Apollo card, due to the fact that the 68040 is slighter larger, we will be supergluing it to the 68040 instead, which I'll tell you how to do in a moment...
- 6) Apply some heat transfer compound onto the bottom of the heatsink of the 486 CPU cooler (in the middle of it). Don't apply to much. It's vital either heat transfer or heatsink compound is used, since this helps to conduct the heat given off by the 68040 and helps to pass it onto the heat sink on the 486 CPU cooler effectively.
- 7) Using some superglue, glue the 486 CPU cooler directly onto the 68040 on your Apollo card.
- 8) And that's magic! You now finally have a descent CPU cooler to keep the 68040 nice and cool. Refit your Apollo card into the trapdoor and connect up one of the flying leads used to power the fan on the 486 CPU cooler to a power connector in your tower.
- 9) Switch on your A1200 Tower. Check to see if the CPU cooler is working. It is? Well done!

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