

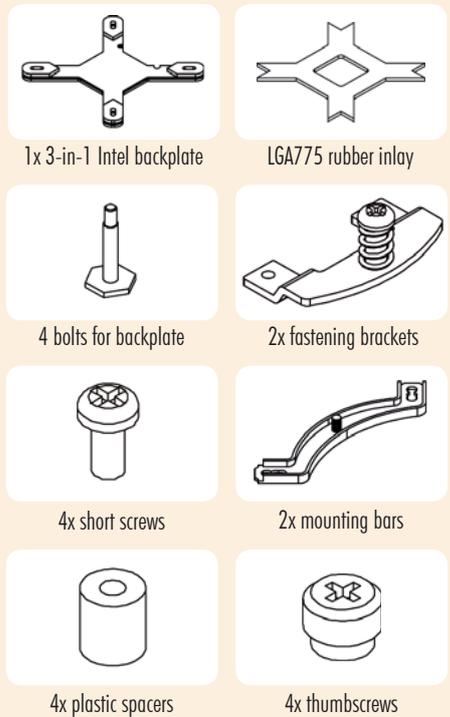
## Noctua NH-U12P SE2 Installation Manual

Thank you very much for choosing a Noctua cooler. This manual will guide you through the installation process of the SecuFirm™ 2 mounting system step by step.

Prior to installing the cooler, please consult the compatibility list on our website and verify that the cooler is fully compatible with your motherboard. Should you encounter any difficulties, please check the FAQs on our website and don't hesitate to contact our support team at [support@noctua.at](mailto:support@noctua.at). Noctua cannot be held responsible for any damage or losses caused by compatibility issues.

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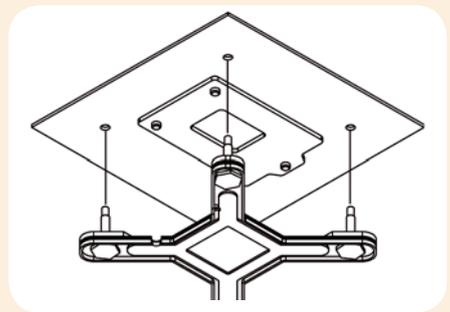
### Required mounting parts:



### Step 1: Removing the mainboard

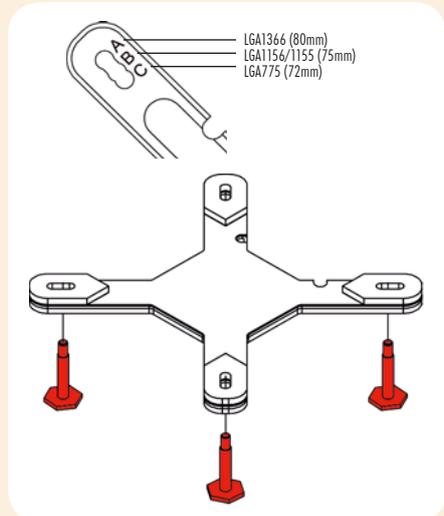
In case you want to use the cooler on an assembled system, you first have to remove the mainboard from the case in order to be able to install the supplied backplate.

**Caution:** On LGA1366 and LGA1156/1155, the supplied backplate will install over the mainboard's stock backplate, so the mainboard's stock backplate must not be taken off.

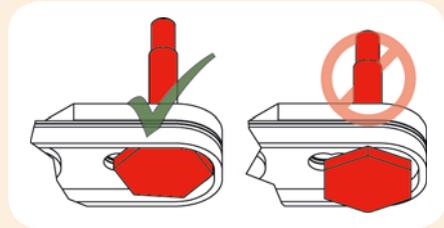


### Step 2: Setting up the backplate

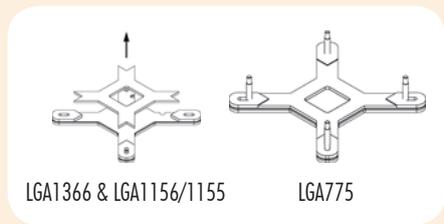
First put the four bolts into the holes appropriate for your motherboard's CPU socket.



**Caution:** Please verify that all four bolts are put into the appropriate holes fully pushed in.

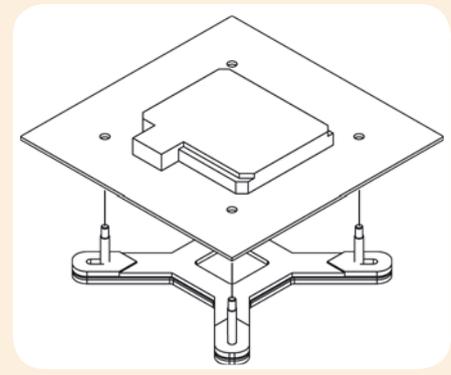


For use on LGA1366 and LGA1156/1155 mainboards, please remove the rubber inlay. Make sure that the rubber inlay is in place for LGA775.

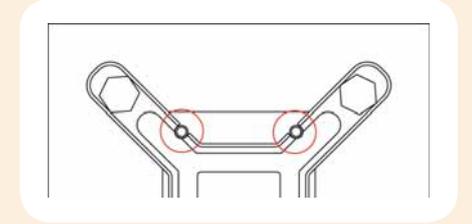


### Step 3: Attaching the backplate

Place the backplate on the rear side of the mainboard so that the bolts stick through the mounting holes.

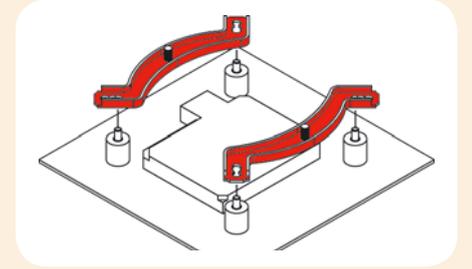
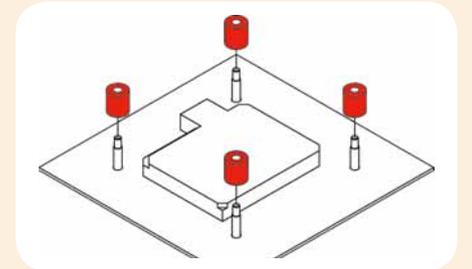


**Caution:** On LGA1156/1155, please make sure that the two cuts in the supplied backplate align with the screws of the motherboard's stock backplate.

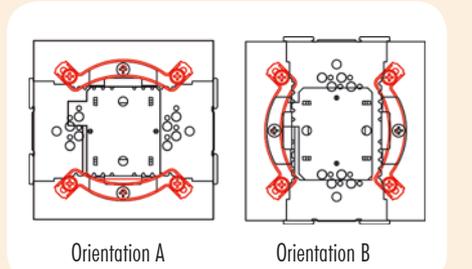


### Step 4: Installing the mounting bars

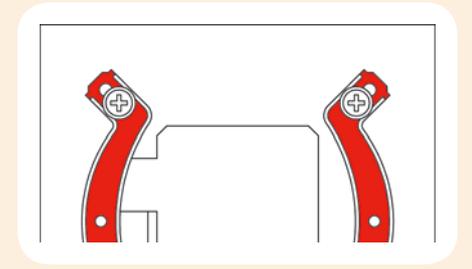
First put the plastic spacers onto the bolts, then add the mounting bars.



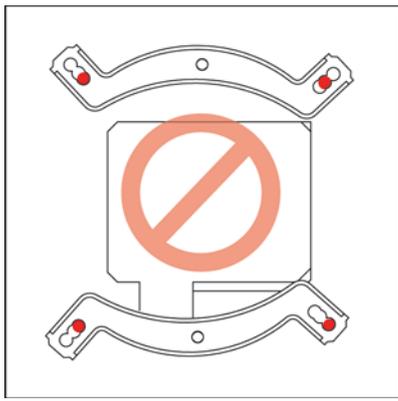
**Caution:** Choose the alignment of the mounting bars according to the desired final orientation of the cooler.



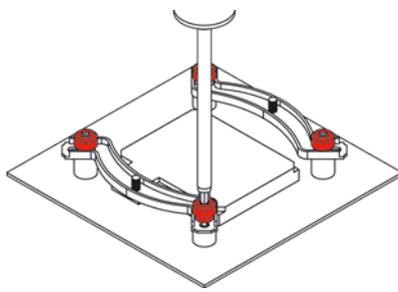
**Caution:** Make sure that the curved sides of the mounting bars are pointing outwards.



Caution: Make sure to use the correct holes on the mounting bars.



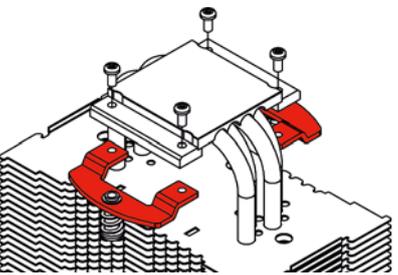
Fix the mounting bars using the 4 thumb screws.



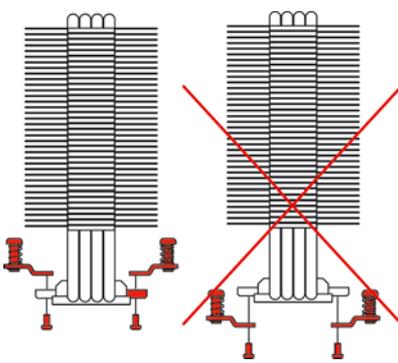
Caution: Tighten the screws until they stop.

Step 5:  
**Attaching the fastening brackets to the heatsink**

Tightly screw the fastening brackets to the base of the heatsink using the 4 short screws.

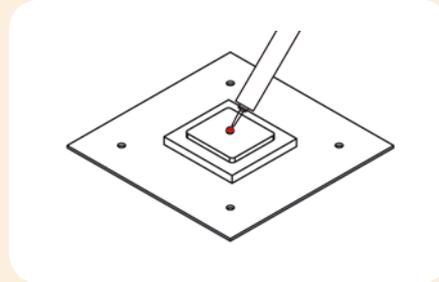


Caution: Make sure to install the fastening brackets in the correct position:



Step 6:  
**Applying thermal paste**

If there are residual traces of thermal paste or thermal pads on your CPU, please clean them off first. Then press a small drop (4-5mm diameter) of NT-H1 onto the centre of the heat-spreader.

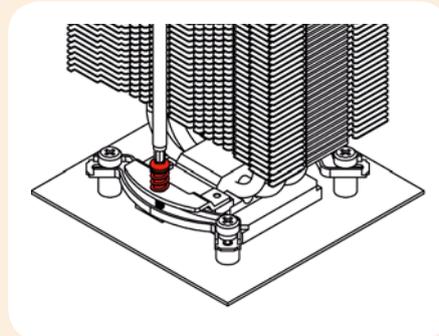


Caution: Applying too much thermal paste will lower the heat conductivity and cooling performance!

Step 7:  
**Fastening the heatsink to the CPU**

Caution: Please take off the protection cover at the bottom side of the heatsink first!

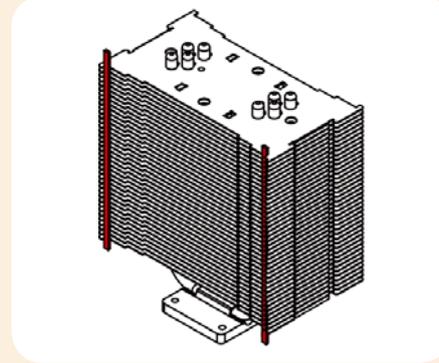
Put the heatsink onto the CPU and screw it to the screw threads of the mounting bars.



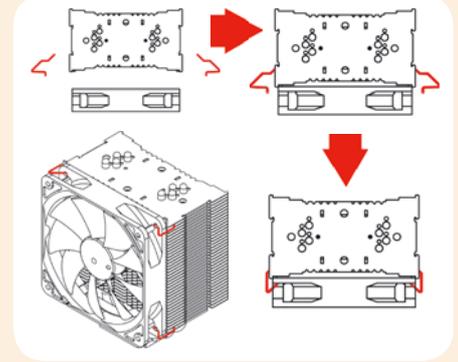
Caution: Tighten the screws until they stop.

Step 8:  
**Attaching the fan**

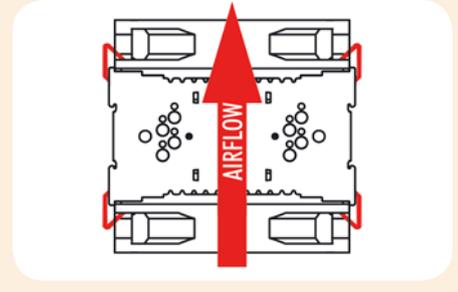
First stick the 2 anti-vibration strips onto the cooling fins in order to dampen minor vibrations emitted by the fan.



Then attach the fan to the heatsink using the 2 steel clips, placing it so that it blows onto the heatsink.

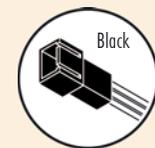


Add the second NF-P12 fan sucking air off the rear side of the heatsink for extra performance (average gains 1-3°C). Please make sure that both fans are aligned in the same direction.

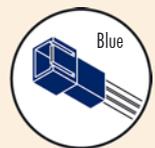


Connect the fan(s) to the mainboard, power supply or fan controller. Use the supplied y-split cable to connect both fans to one fan header. Depending on your CPU and the temperature inside the case, you may interconnect the supplied Low-Noise Adapter (L.N.A.) or Ultra-Low-Noise Adapter (U.L.N.A.) in order to further reduce the fan's operating noise.

Caution: Please use one adaptor per fan when running two fans with adaptors. Never use one adaptor for two fans by putting it before the y-split cable.



Low-Noise Adapter (L.N.A.)  
1100 RPM, 16.9 dB(A)



Ultra-Low-Noise Adapter (U.L.N.A.)  
900 RPM, 12.6 dB(A)

Caution: When using the (U.)L.N.A., check the temperature of your CPU using appropriate software (e.g. the respective applications of your mainboard manufacturer), in order to evade automatic throttling of the CPU due to the increased temperature. If the cooling performance is insufficient, please increase case ventilation or remove the (U.)L.N.A.

## Support & FAQs

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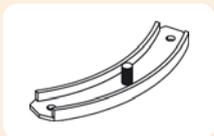
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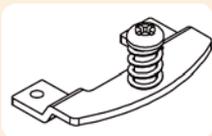
### Required mounting parts:



4x long screws



2x mounting bars



2x fastening brackets



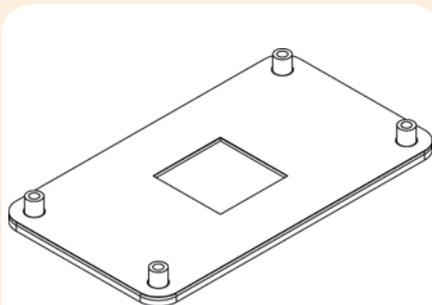
4x short screws



4x plastic spacers

**Caution:** The SecuFirm™ 2 mounting system requires a backplate, which is preinstalled on most AM2/AM2+/AM3 mainboards.

If your mainboard doesn't have a backplate, please contact our support team at [support@noctua.at](mailto:support@noctua.at).

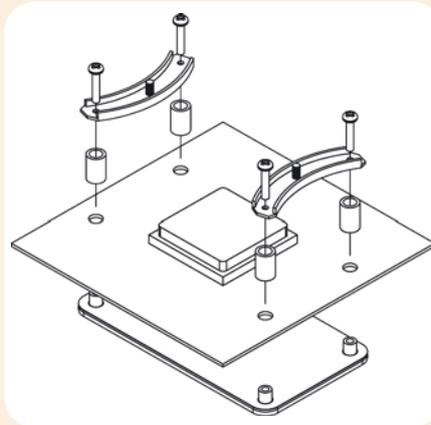


### Step 1: Removing the retention module

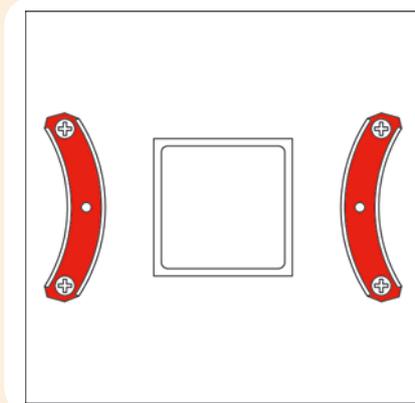
If your mainboard uses a retention module for CPU cooler installation, please remove it first. The SecuFirm™ 2 mounting system will install directly to your mainboard's stock backplate on the rear side of the socket.

### Step 2: Attaching the mounting bars

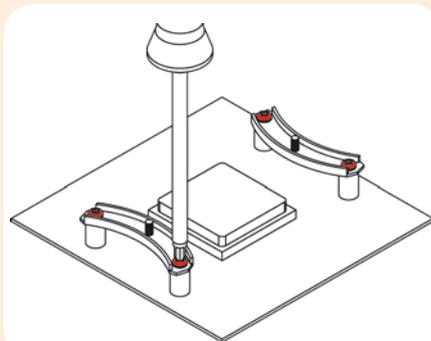
First put the plastic spacers onto the screw threads, then fix the mounting bars using the 4 long screws.



**Caution:** Make sure that the curved sides of the mounting bars are pointing inwards.

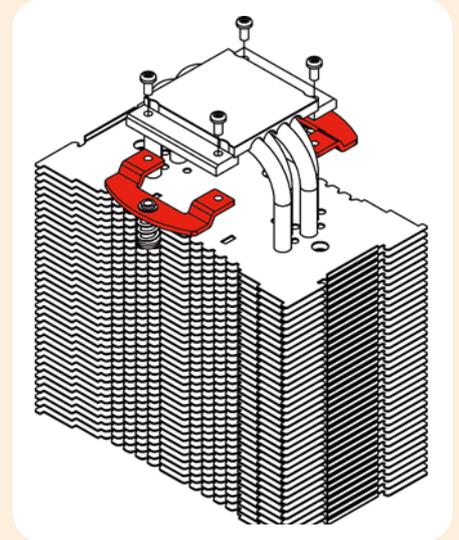


**Caution:** Tighten the screws until they stop.

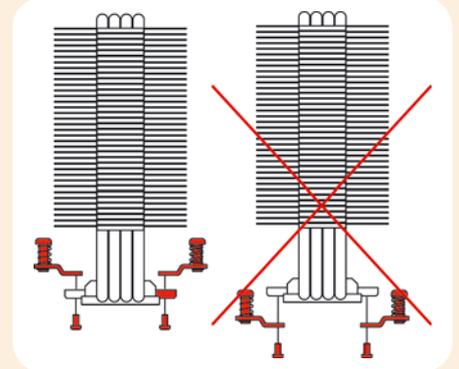


### Step 3: Attaching the fastening brackets to the heatsink

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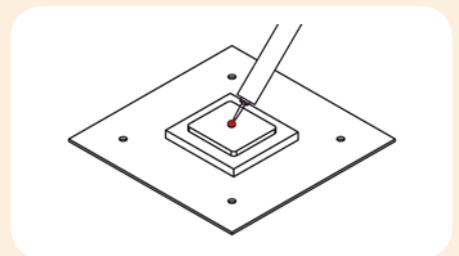
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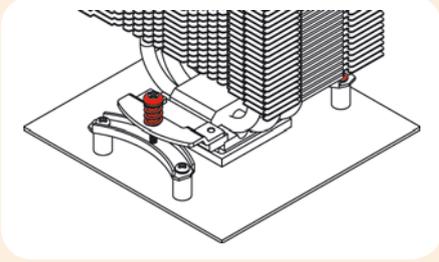


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**Step 5:  
Fastening the heatsink to the CPU**

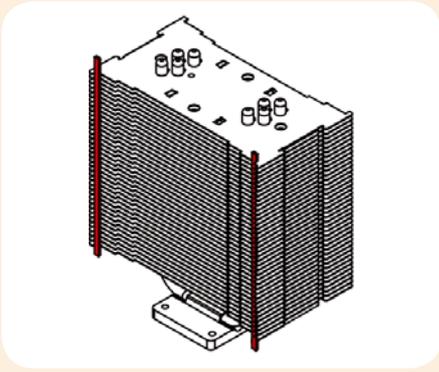
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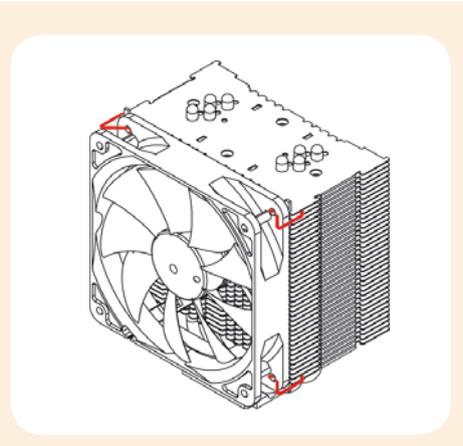
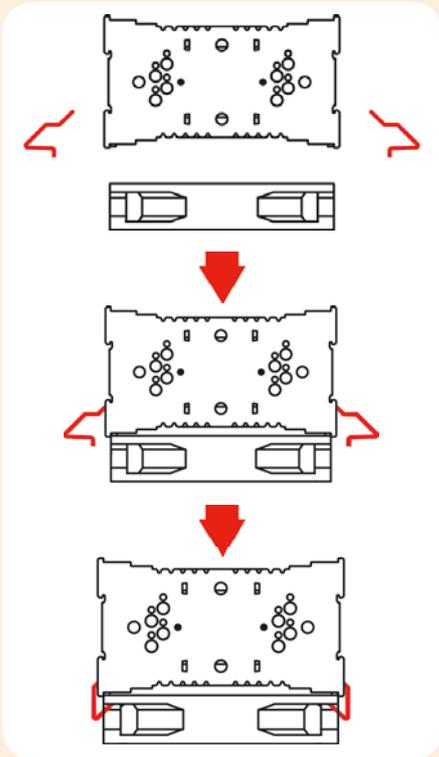
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Attaching the fan**

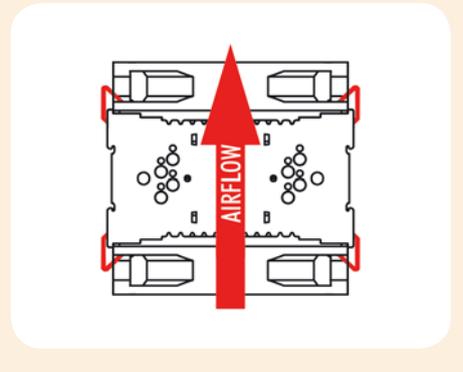
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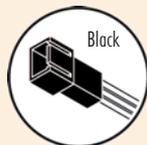


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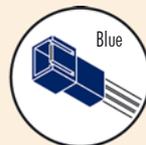


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**Warranty**

Even with high-grade products and strict quality control, the possibility of defects cannot be eliminated entirely. Therefore, we aim at providing the highest possible level of dependability and convenience by offering a warranty period of 72 months and direct, fast and straightforward RMA service.

In case of warranty, you can either request RMA at your retailer or use our Direct RMA Service. For further information, please consult [www.noctua.at](http://www.noctua.at). In order to process your RMA enquiry, we need a proof of purchase, so please don't forget to keep your invoice!

Please also note that any modifications to the cooler, fan or mounting parts will void your warranty.

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