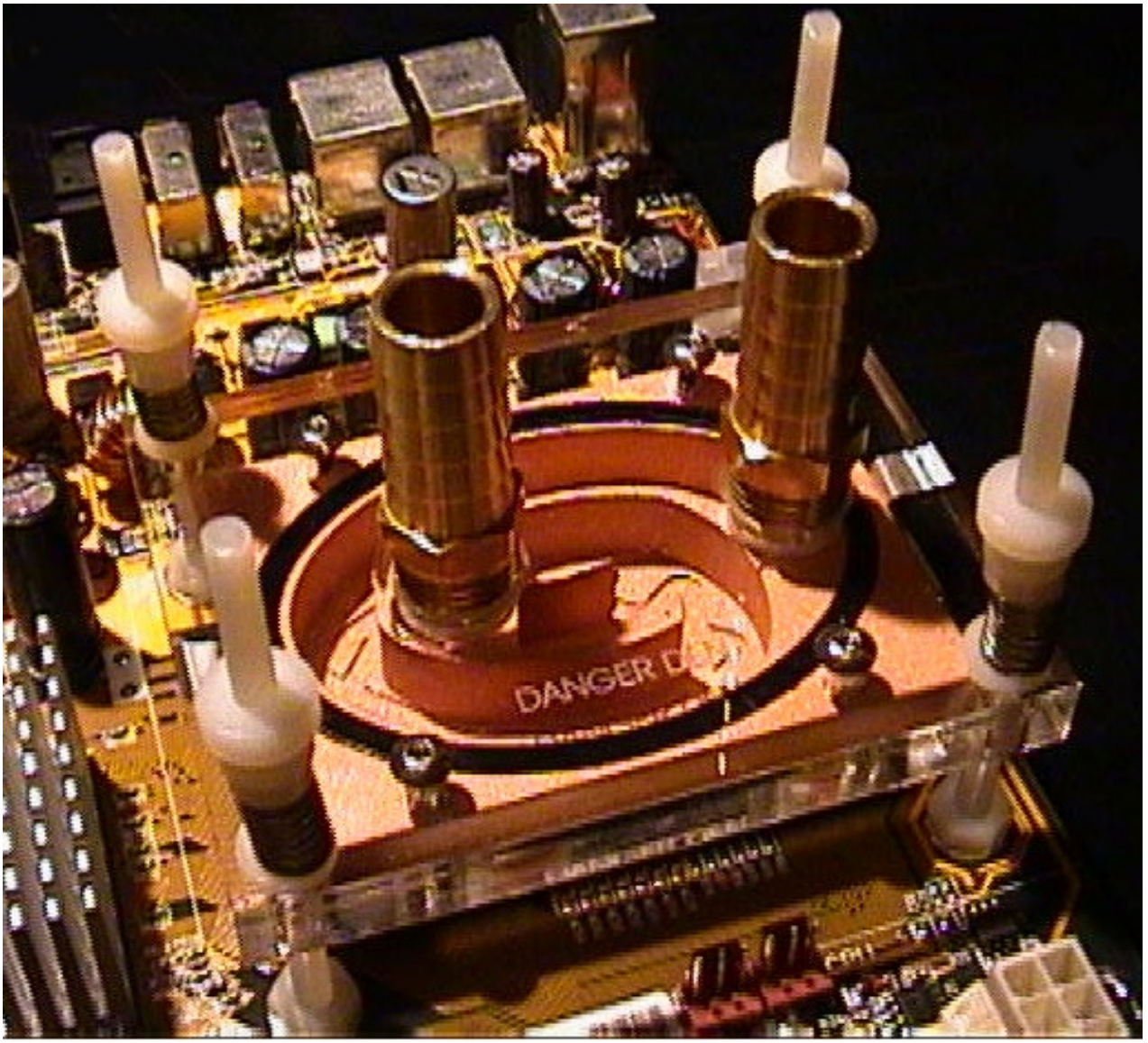
Installation Guide

Maze3 [INTEL]



Includes - Complete Block Assembled with Top and O-ring, 4 nylon bolts, 12 nylon nuts, 4 springs, 6 flat nylon washers, 2 thick nylon washers. Copper base machine cut, machine lapped, and hand lapped to 1200grit. Pressure tested before shipment to 85psi

Guide authored by Marci - www.over-clock.co.uk
Pictures by Marci & Deathwalker

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Astoria OR 97103
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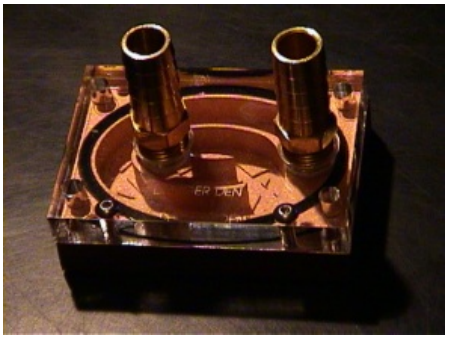
Support: Tech@dangerden.com

Congratulations on your purchase of the **DangerDen MAZE3 Waterblock** for **INTEL** processors! DangerDen waterblocks are designed to add a touch of class to your system as well as an increase in cooling performance. All blocks are machined from solid copper bars, and lapped to a 1200grit finish, then the interiors are blast-finished with a special media to give the perfect finish... Tops are cut from solid Lucite and laser-etched with the infamous DANGERDEN name. When you buy a DangerDen block, your investing not only in performance, but pure unadulterated quality! The pictures below show other blocks from the DangerDen product line.



1. Package Contents - Within this package you will find the following items, along with your preassembled CPU Block...

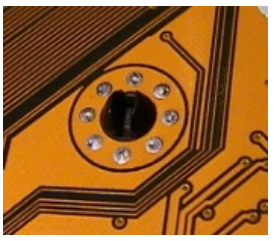
4x Nylon Thumbscrews
4x Thick Nylon Washers
4x Metal Springs
4x Thin Nylon Washers
4x Nylon Threaded Bolts
8x Nylon Antislip Nuts
(See photo - Left)

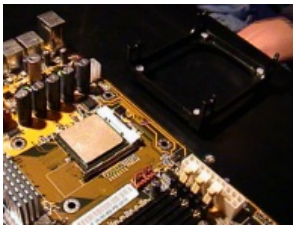
If you suspect any of these components are missing from your package, please contact the company from which it was purchased immediately. Should the company be unable to help, then feel free to e-mail us directly at our tech support address shown at the bottom of each page of this guide....

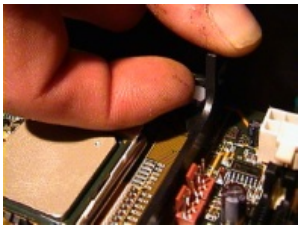
You may also require some thermal compound. We recommend **Arctic Silver 3** for use with our blocks. A guide for treating the base of your block as well as applying Arctic Silver to your core can be found at our website at **www.dangerden.com** - *if you think you may need this guide, get it NOW before you begin to strip down your rig!!*

The Maze3 Waterblock has a tool-less installation method if being installed on a bare motherboard. For ease of installation, before you proceed you should strip down your PC.
Leave your Pc's PSU connected to the wall. Turn off the wall switch and/or the PSU. Now, take hold of an unpainted part of your case with one hand and with the other disconnect all cables and remove your motherboard from your case. Keeping hold of an unpainted part of your case ensures that you are grounded and free from static electricty.

2. Board Preparation - Intel Pentium 4 motherboards use the Socket478 mounting system. This is a bracket which comes attached to your mainboard. To fit the Maze3 to your board this bracket needs to be removed. This generally doesn't affect your board's warranty and is a simple task... On the reverse side of your mainboard you will find 4 plastic clips. These have locking pegs ionserted down the center. Using a blunt instrument of an appropriate size, such as a small screwdriver, simply push the locking peg thru the board, then on the top side lift it up and out. You can then squeeze the two edges of the black clip together with your fingernails (I tend to use a plastic fork) and the cage simply pops off.







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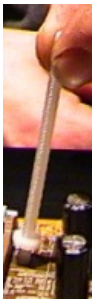
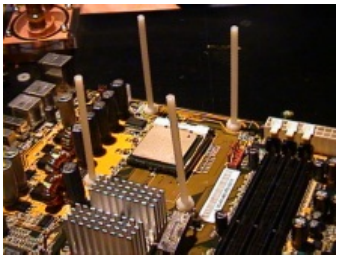
2. On With The Installation!!

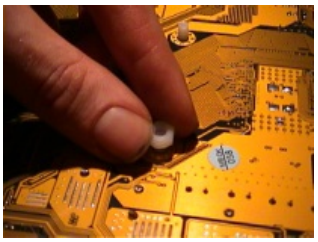
Nylon hardware is not electrically conductive. This makes for a much simpler installation without requiring additional washers etc.

First off, you need to take 4 of the nylon nuts and thread them onto the 4 nylon bolts... Ideally you want to get them down around 8mm (0.315 inches) but no need to get a ruler out! Guess work is accurate enough...

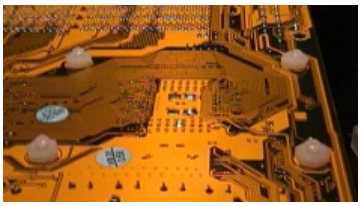


Insert the 8mm length into the cpu mounting holes surrounding your cpu socket (see image left). The nylon bolts are sized so that you can screw them thru the board rather than simply push (although some motherboards do feature larger holes). This gives added hold for your block, and also makes installation easier. Do this for all 4...



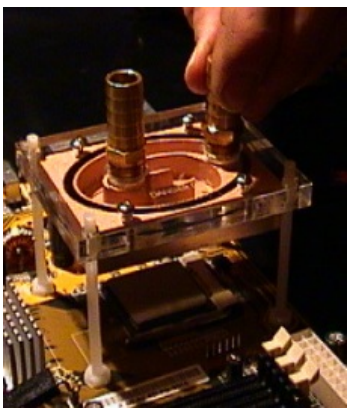


Now, flip over your board. As you can see, you now have a short length of thread protruding thru the rear side of the board... This should be the perfect amount to get a nut onto. These nuts need only be finger tight. If you want to be doubly sure then use a pair of pliers to gently tighten the nut on the base of the board, being careful not to scratch or knock off any surrounding resistors. If you're REALLY paranoid, OR if you find you frequently remove your block (eg: pro-benchmarker or hardcore overclocker) then just add a small drop of superglue onto the bolt and nut on the reverse of the mainboard. This holds everything neatly in place and makes removal much easier without having to remove your mainboard. Sit the board back on your desk with the CPU facing you.



Next, pick up your Maze3 block and orient it so that the barb nearest the **CENTER** of the block will be the **lowest** of the two once the mainboard is mounted in the case.

Gently lower the block down onto the 4 threads and ensure it is sat level on your CPU.
Now we need to add the rest of the mounting mechanism. First place on a thin nylon washer.... then a metal spring... then a thick nylon washer...



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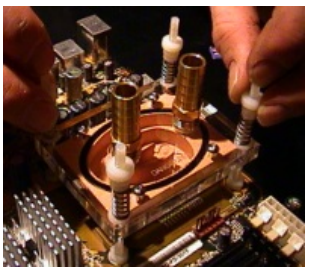
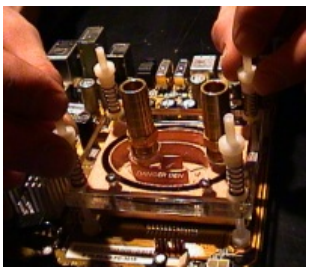
Next add the thumbscrews one at a time... **DO NOT** tighten them down yet....

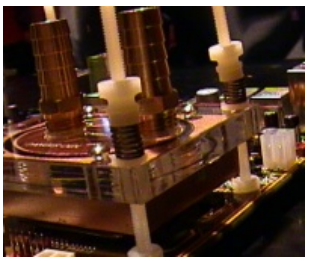
If you find that the thumbscrew is slightly tight, you can grab the cooking-oil from the kitchen, dip your finger in the top and rub this round the end of the thread. Tighten each thumbscrew down to the point of the thick washer...if you find the bolt rotates, place your first finger on the tip of the bolt and use your middle finger and thumb to tighten it down... Once you have all four on, you're ready to tighten the block down using the following procedure...

Pick two **diagonally opposite corners** and tighten these down **part way (approximately 1 rotation).**



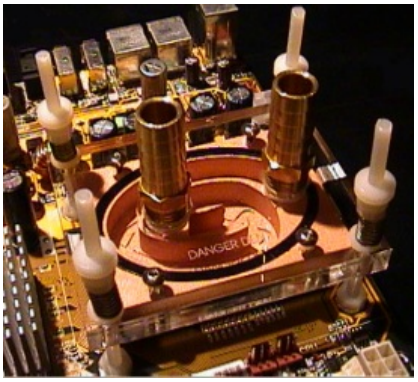
Now move to the **remaining two corners** and tighten these down **part way.** Go back to the first pair and tighten... Repeat until the springs are compressed... Not **ALL** the way to the bottom, but fairly close. This provides plenty of pressure to ensure a good solid clean contact with the core. **The better the contact, the better your CPU temps!**





That's it... Your block is fitted!! All you need do now is attach your hosing... Remember, the water inlet is nearest the **CENTER** of the block, and water should leave thru the outlet which is nearest the **EDGE**. It is also a must that you remember to fix hoses in place with a hose clamp of relevant size. If using DangerDen tubing than 18mm should be fine. If using wormdrive jubilee clips, then you need a 16-20mm clip!

Happy Watercooling!



DISCLAIMER: Remember this is merely a guide, but is also the DangerDen approved method of installation. If you follow these instructions you should have years of trouble-free performance cooling. DangerDen cannot be held responsible for any damage to hardware thru neglectful installation or user error.

Comments and suggestions for the improvement of this guide should be sent to **marci@over-clock.co.uk**
Technical Queries should be addressed to DangerDen at the address shown at the bottom of each page of this guide.
For UK Support, visit **www.over-clock.co.uk**, who provide a **free** WaterCooling Support forum for all of DangerDen's products.

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