

TB190 (Rev1) - How To Keep Intel Heatsink Brackets From Breaking

Purpose:

This document was created due to the failures in the Intel heatsink brackets on the MSI motherboards. The levers that lock down the heatsink onto the Intel processor put a lot of pressure on the heatsink bracket. Add the vibration of being in a CNC control and the stress becomes too much, causing the heatsink bracket to break. Anyone with a system after May 2006 doesn't have to worry because Centroid switched to the AMD processor which has a much sturdier heatsink mount. If you have an Intel processor with a broken heatsink bracket, here is how to fix it.

Intel heatsink mounting Bracket



Instructions:

1. Obtain a new heatsink bracket, either by ordering one from Centroid or get one online.
2. Remove the motherboard from the console/servo PC, then push out the compression pins and remove the broken heatsink bracket. Then install the new bracket onto the motherboard.
3. Modify the levers on the heatsink. To do this remove them from the heatsink and grind/sand them down (refer to picture).



Notice the levers on the left are stock and the levers on the right have been ground down so they won't put as much pressure on the heatsink bracket.

4. Once the levers have been modified reinstall them onto the heatsink and secure to the motherboard.
5. Reinstall motherboard into console/servo PC.

Document History

Rev1 Created on **2006-08-15**