Box Redesign and Removal Considerations for the Intel® Desktop Processor in the LGA775 Package

August, 2005

New Box to Old Box Measurement Comparison

34% weight reduction and 44% size reduction!

(Photos are for illustration purposes only)

NEW:
- Size: 6.625"L x 3.875"W x 5.875"D
- Box Weight:
  - 1.44 lbs / .66 kg

OLD:
- Size: 7.375"L x 3.875"W x 9.375"D
- Box Weight:
  - 2.19 lbs / .99 kg

Package Redesign Product Scope

Note: CPU window box is now on top of box!

➤ **Includes both Celeron® D processors and Pentium® 4 processors in the LGA775 package**

New Box Window Locations

➢ **Old Box:**
- – **CPU and fan windows on back of box**

➢ **New Box:**
- – **CPU window is now on the top of box**
- – **Fan window remains on back**

(Photos are for illustration purposes only)

Package Opening Instructions

- ➢ **OPEN WITH CARE TO ASSURE PRODUCT IS NOT DAMAGED**
  - ➢ **When handling a Intel Pentium® 4/Celeron® D processor in the LGA775 package, it is important that you take the proper precautions to prevent electrostatic discharge that might damage the processor**
  - ➢ **Following are some recommended steps that will help insure a successful product installation:**
    - ➢ Consider using ground straps, gloves, ESD mats, or other protective measure to avoid damaging the processor
    - ➢ Leave the black Land Slide Cover (LSC) on the processor until you are ready to install the processor in the socket
      - ➢ The LGA775 contacts are subject to contamination and other damage if care is not taken to protect the contacts
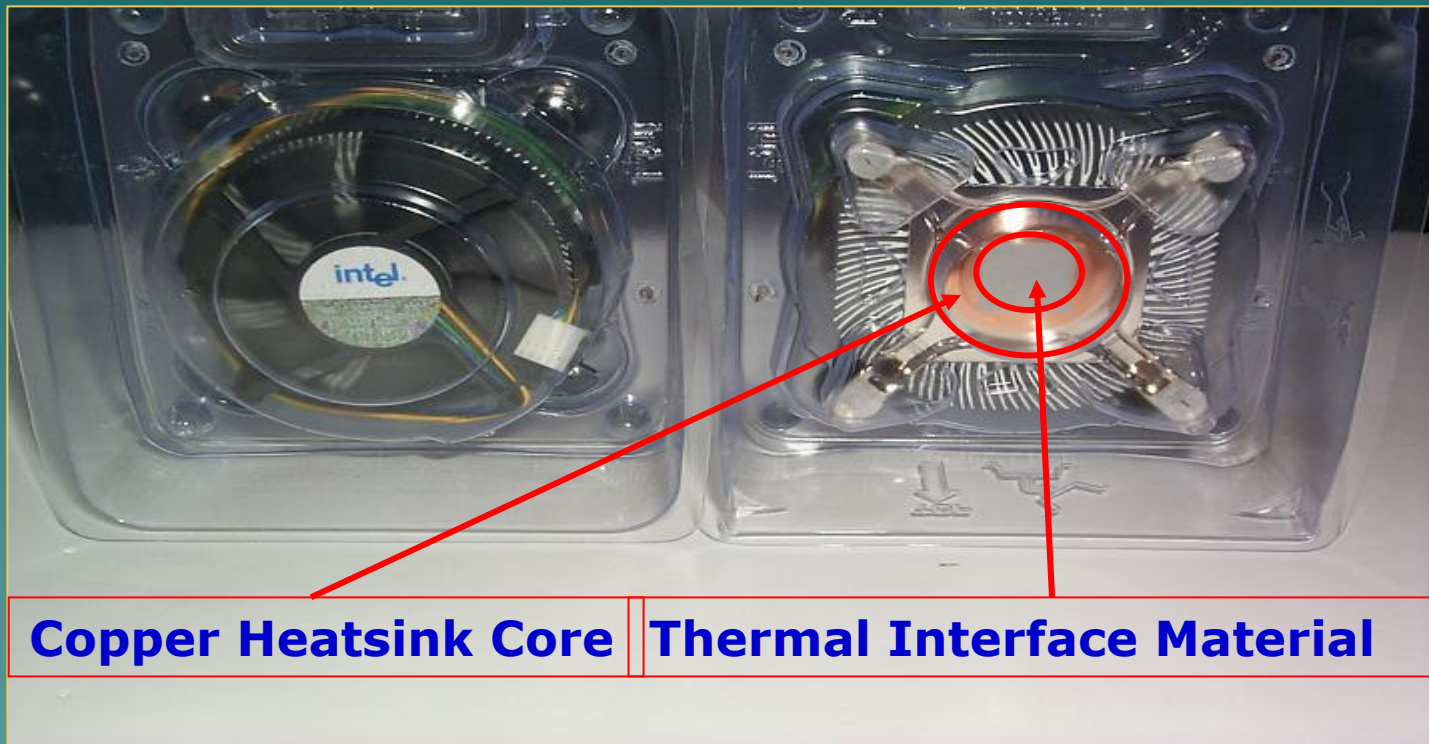
Opening the Box

➢ Step 1: Break the seal on the left hand side
➢ Step 2: Pull the perforated tab on the right hand side
➢ Step 3: Slide clamshell from the box

Clamshell after Removal from Box

Fan View | **Heatsink View**

Copper Heatsink Core | **Thermal Interface Material**

- ➤ **Thermal Interface Material (TIM) should be attached to core**
  - ➤ **TIM is a square pad placed on heatsink core (see page 10)**
- ➤ **Heatsink core may be either aluminum or copper**
  - ➤ **Depending on processor thermal requirements**

Clamshell Comparison

New Clamshell	Old Clamshell

➤ **Note the difference in processor placement:**
  ➤ **Processor is now placed vertically in package**
  ➤ **This change enables a more compact design**
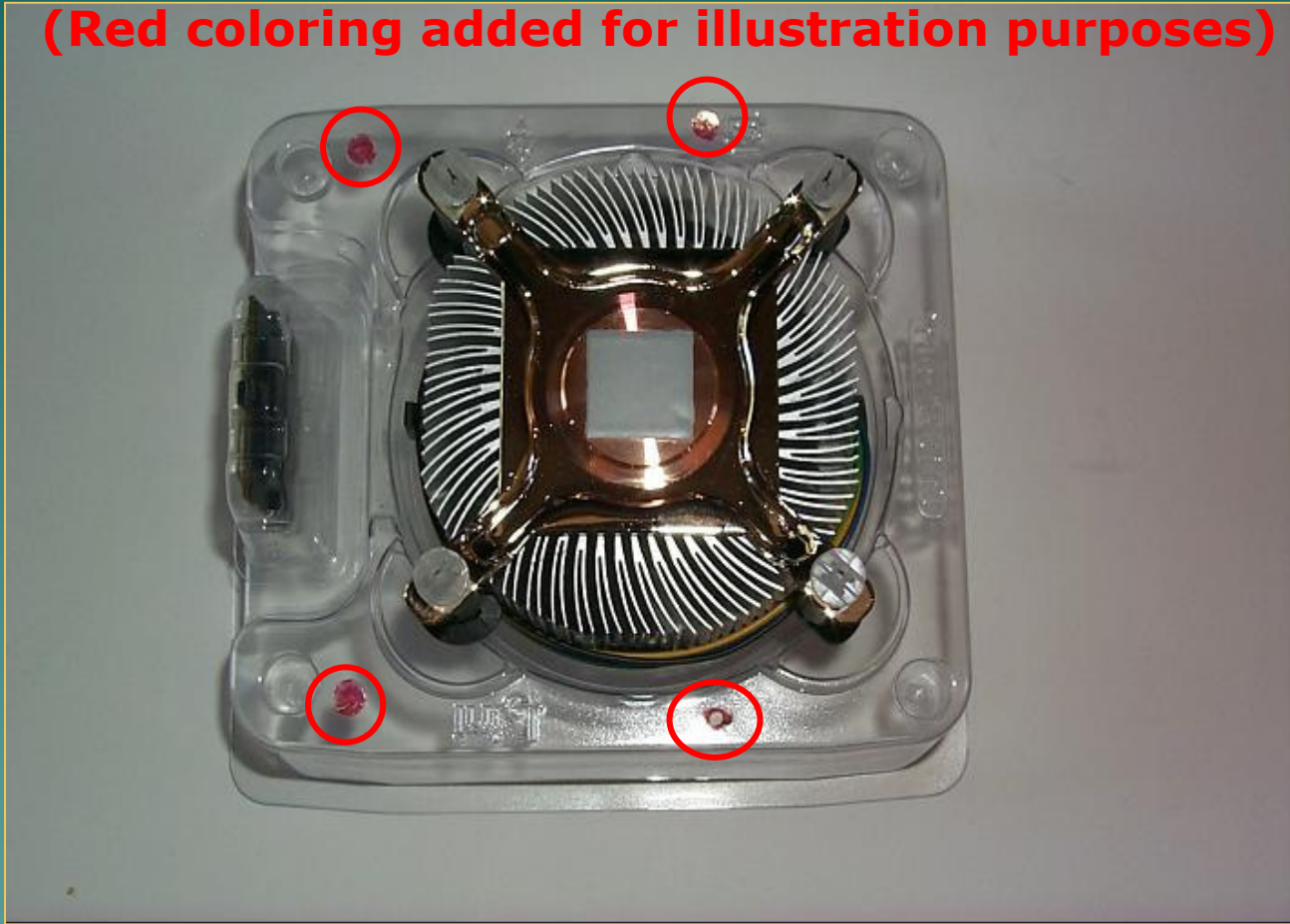   ➤ **Easier storage and less packaging waste**

Clamshell Opening Instructions

(Blue coloring added for illustration purposes)

TOP

➢ **On three sides of the clamshell there will be the following illustration indicating correct clamshell opening orientation**

Clamshell Weld Points
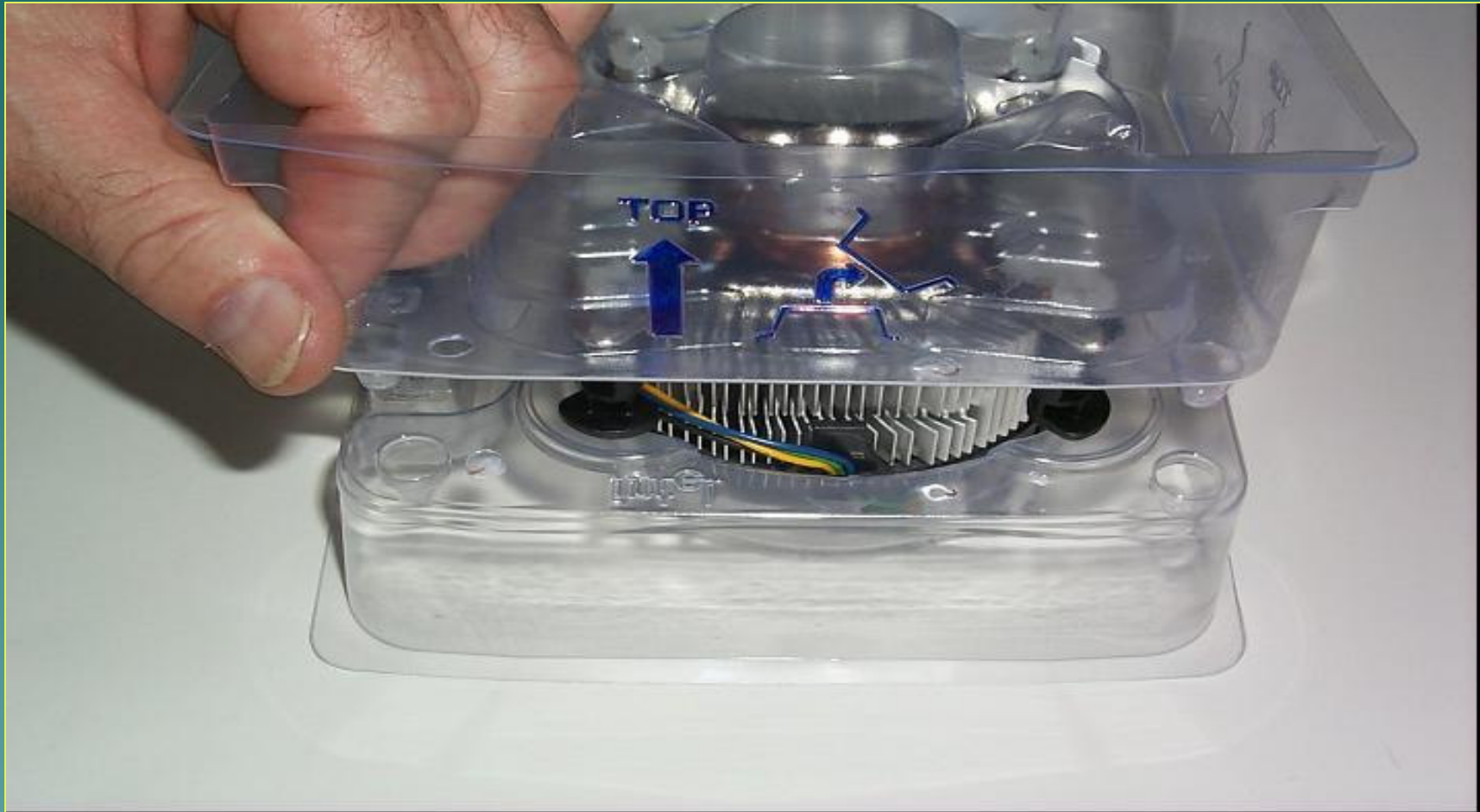

(Red coloring added for illustration purposes)

➢ **The four clamshell weld points are circled in the above photo**

Clamshell Removal

- ➢ **Place clamshell on a flat surface and grasp top and bottom corner securely**
- ➢ **Separate corner of clamshell by pulling up on top corner until the corner weld breaks**

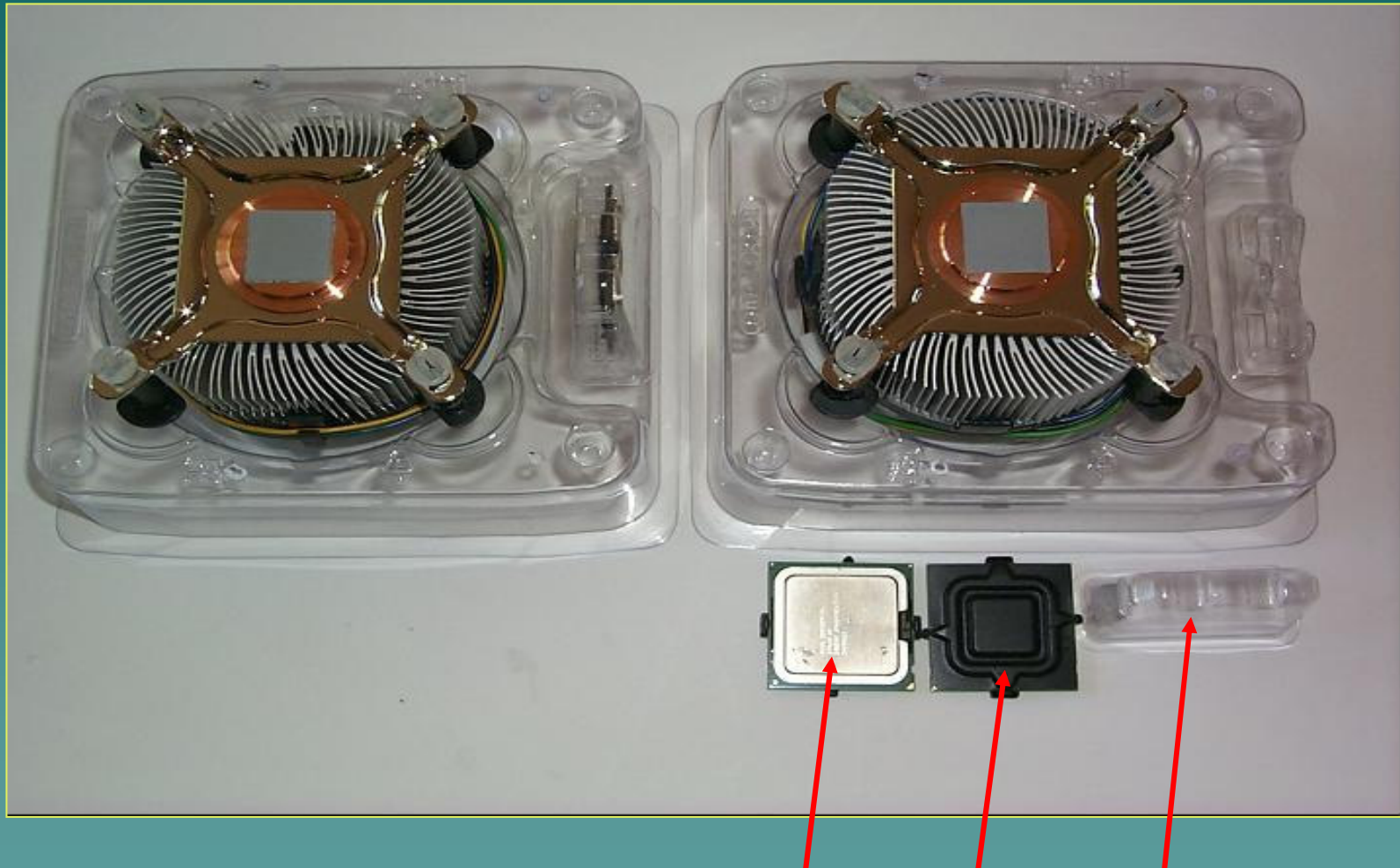# Clamshell Removal Continued

➢ **Repeat procedure at each corner until all 4 welds are broken**
➢ **Then remove top half of the clamshell**

Processor Removal

> **Lift up the plastic sleeve and remove the processor**

Final Disassembly Before & After

> Objects listed on the right are processor, LSC, and plastic sleeve
> It is useful to record processor markings prior to installation in the event that you ever need to call Intel Customer Support

Packaging Retention/Spares Ordering

- Intel recommends that at a minimum you retain the Land Slide Cover in the unlikely event that you ever need to return your processor to your place of purchase or Intel for warranty purposes

- Spares Parts Ordering is available at Shop Intel
  - http://www.shop-intel.com/shop/default.asp
    - Click on Choose Desktop Processor Parts link in the left hand column to get complete spare parts listing