

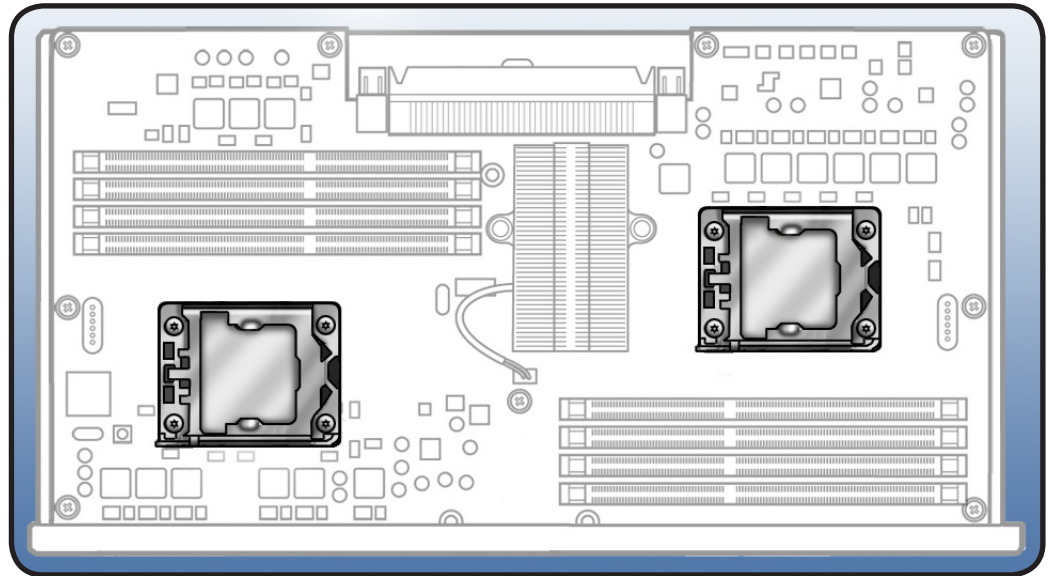


Processor, Dual

First Steps

Open computer, lay it down with access side facing up, and remove:

- Processor tray
- Processor heatsink, dual

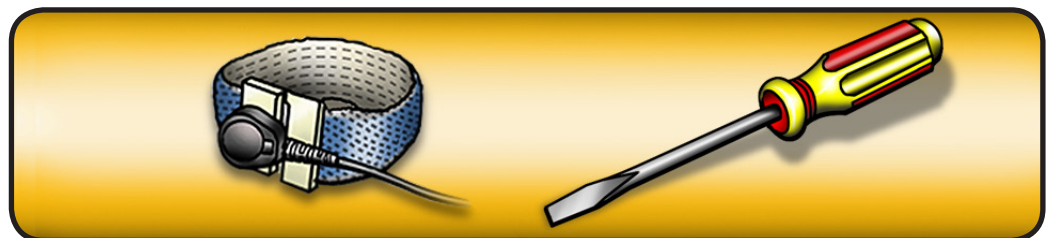


Note: This procedure applies to Mac Pro (Mid 2010) dual-processor configurations. For single-processor configuration, see [“Processor, Single.”](#)

Important: Mac Pro (Mid 2010) processors require thermal grease for proper operation. Every time you remove a processor heatsink, you must replace the thermal grease on the processor below it. New grease and alcohol wipes for cleaning off the previous grease are included with replacement heatsinks, processors, and processor boards.

Tools

- ESD wrist strap
- Flatblade screwdriver



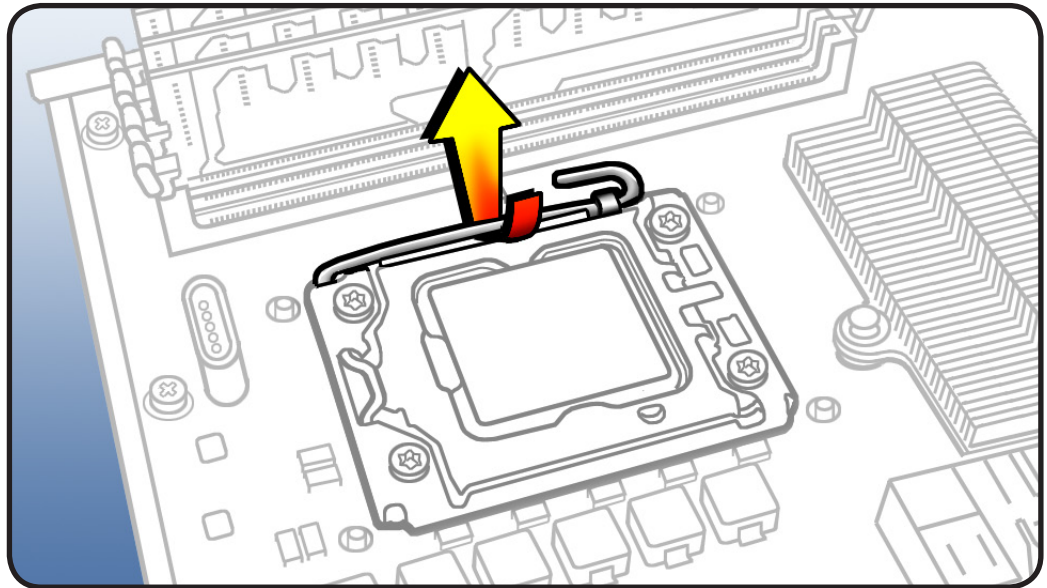


Removal

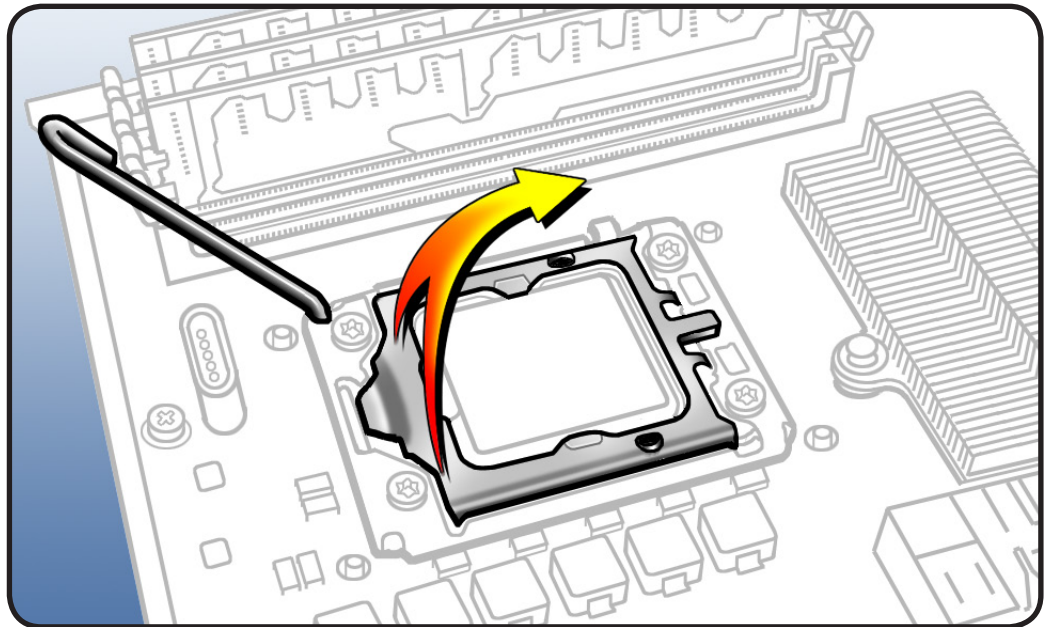
Note: You can identify the processor by the speed etched on the processor can. You must clean off the thermal grease from installed processors to see the speed.

- 1 Release latch on metal processor holder.

Note: You may use a flatblade screwdriver to help release latch.

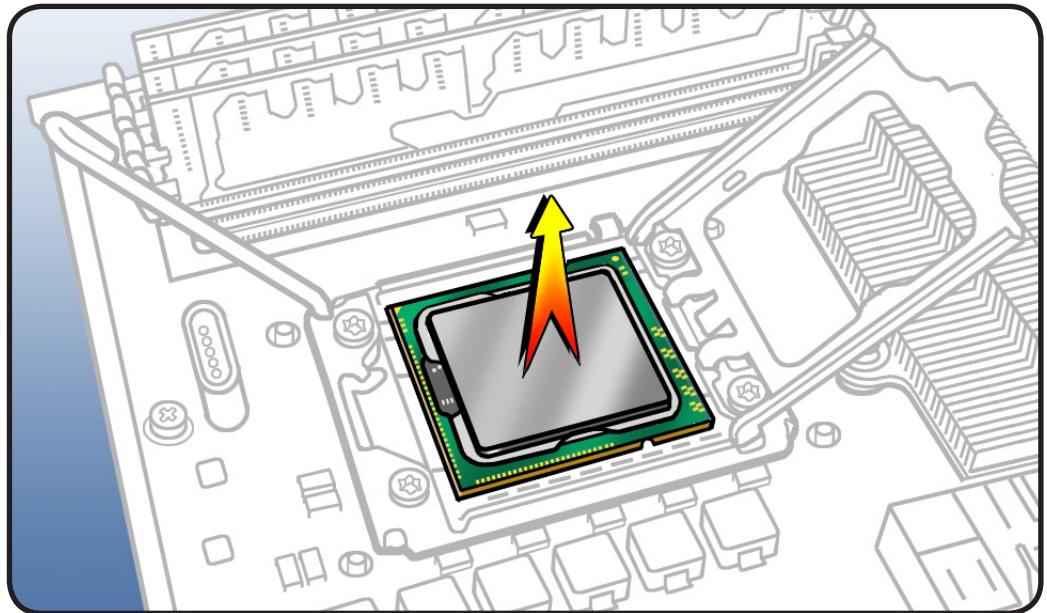


- 2 Rotate top of holder to open position.





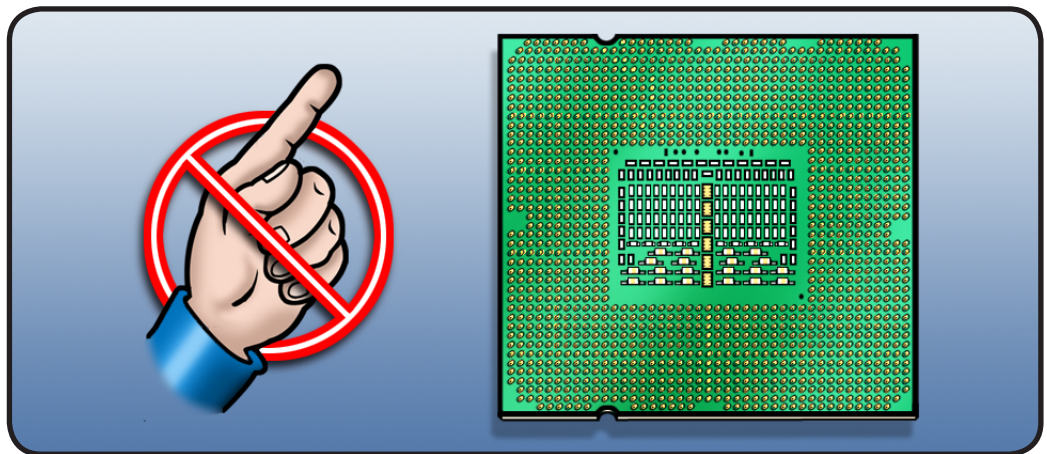
- 3 Lift processor straight up out of holder.



Important: Do not touch components on processor top or bottom. Hold processor only by the edges.



Also be careful not to touch gold pins in processor connector on processor board.



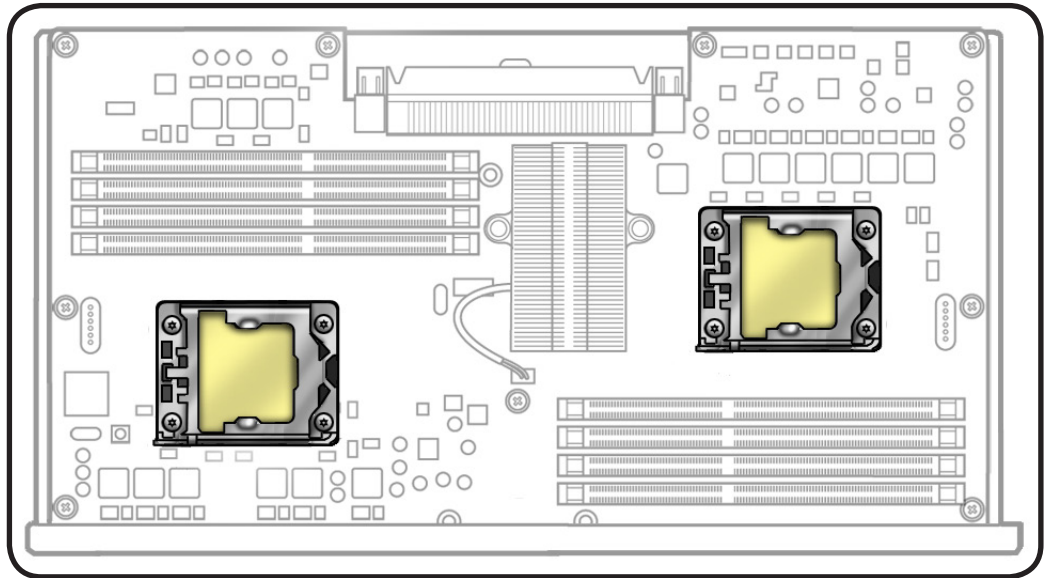


Reassembly

Important: Do steps 1–3 with processor REMOVED from processor board.

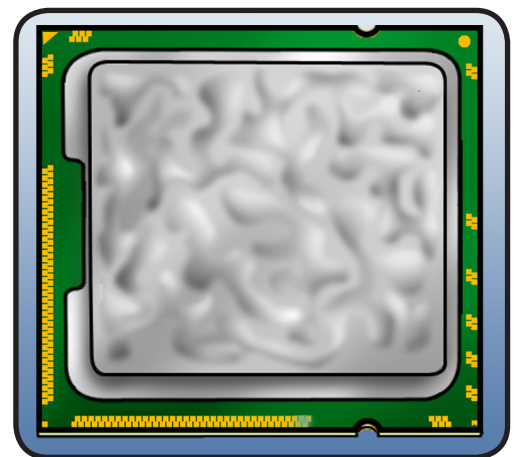
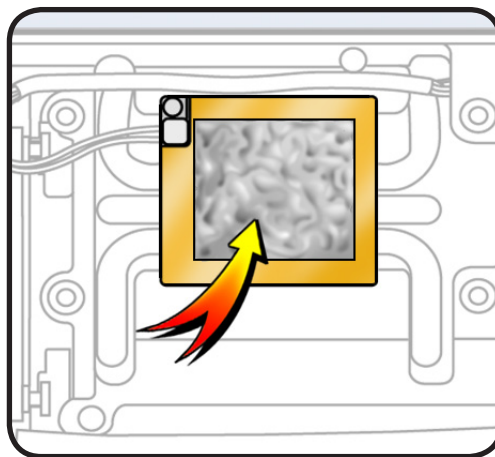


Every time you remove a processor, even for a few seconds, cover the processor socket with a connector cap. Spare caps are packed with replacement parts.



- 1 Using alcohol pad included with replacement part, clean off thermal grease from underside of heatsink and top of processor.

Note: You do not need to clean a new replacement processor with alcohol. Instead, just remove the protective cap covering the processor's connector.

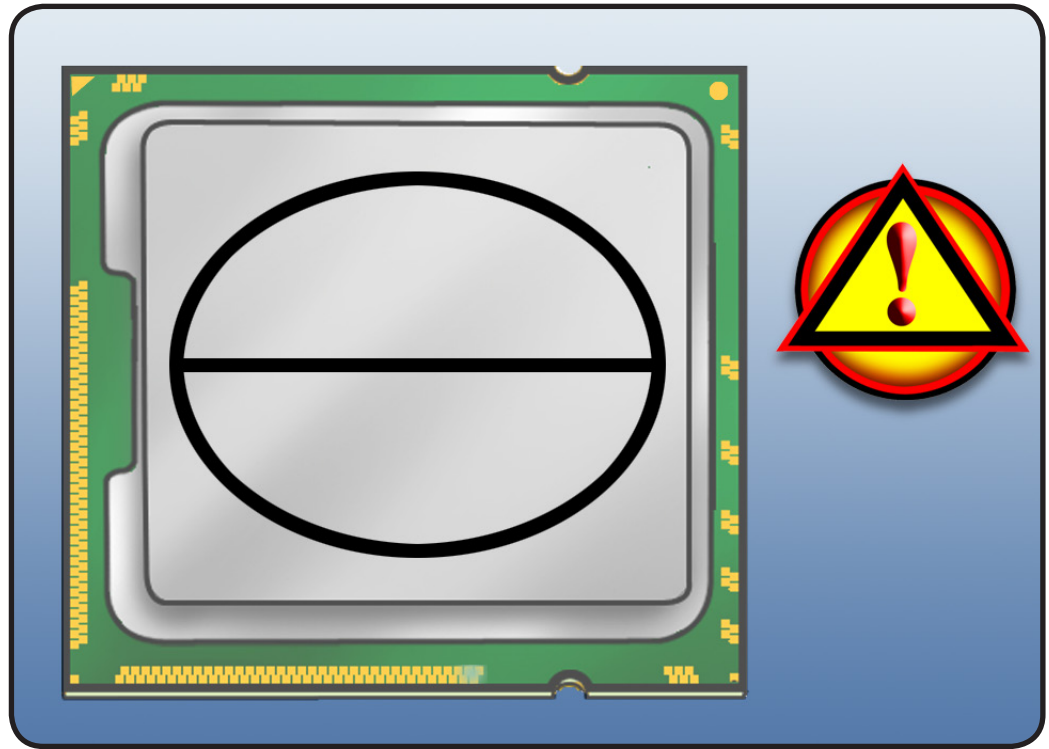




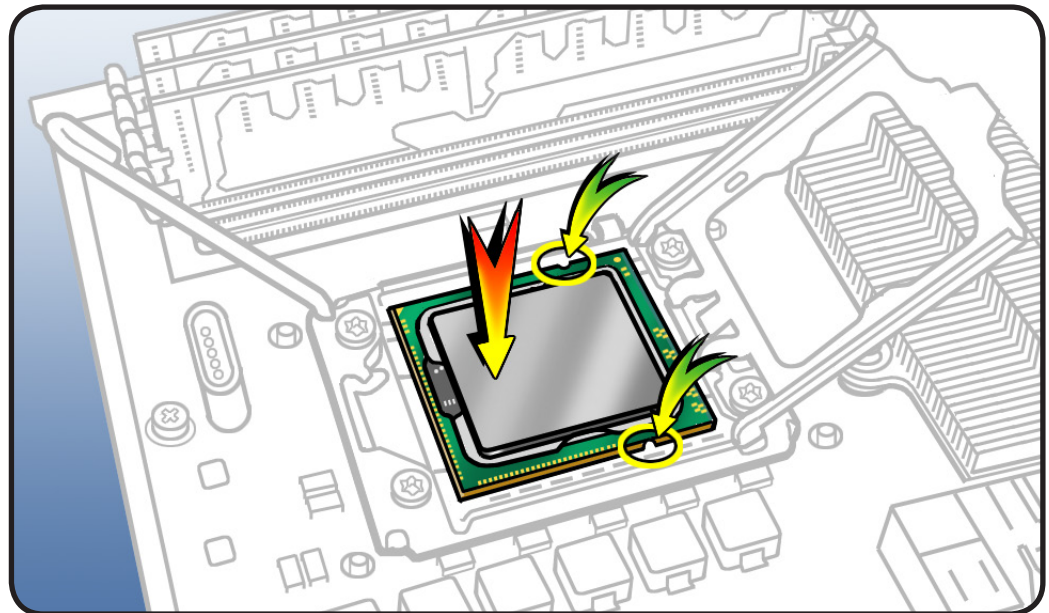
- 2 Using syringe of thermal grease included with replacement part, apply narrow bead of grease to processor chip (raised square on top of processor). Apply in pattern illustrated, using approximately 0.2 cc.



Warning: Do not apply more grease than recommended. Grease must not overflow into processor connector.

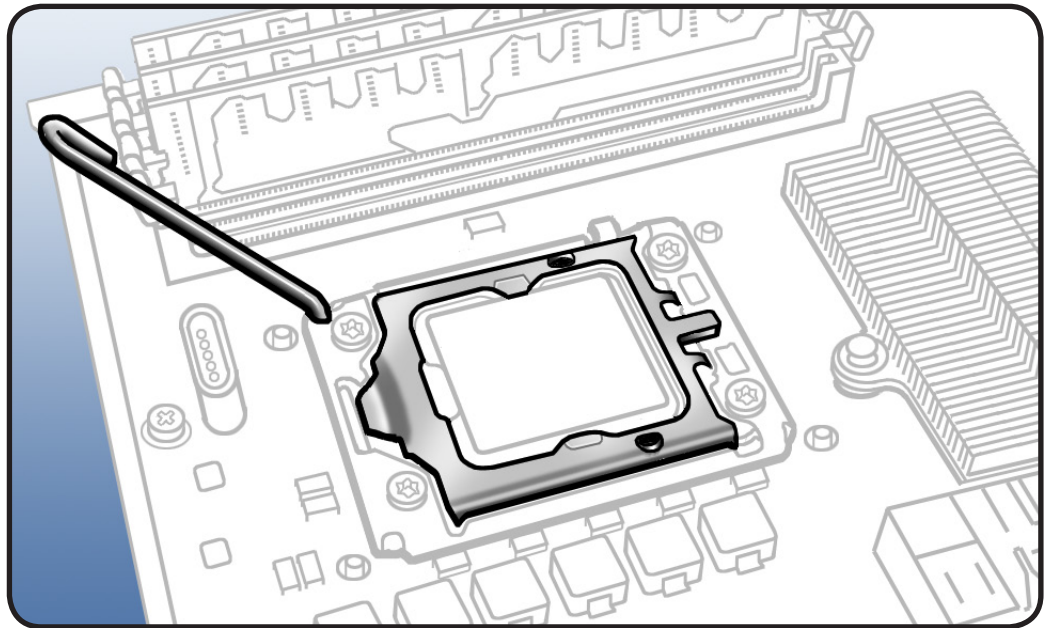


- 3 Align processor notches with tabs on processor holder, as shown. Then lower processor straight down onto connector.





- 4** Rotate top of holder to closed position.



- 5** Close latch on metal processor holder.

