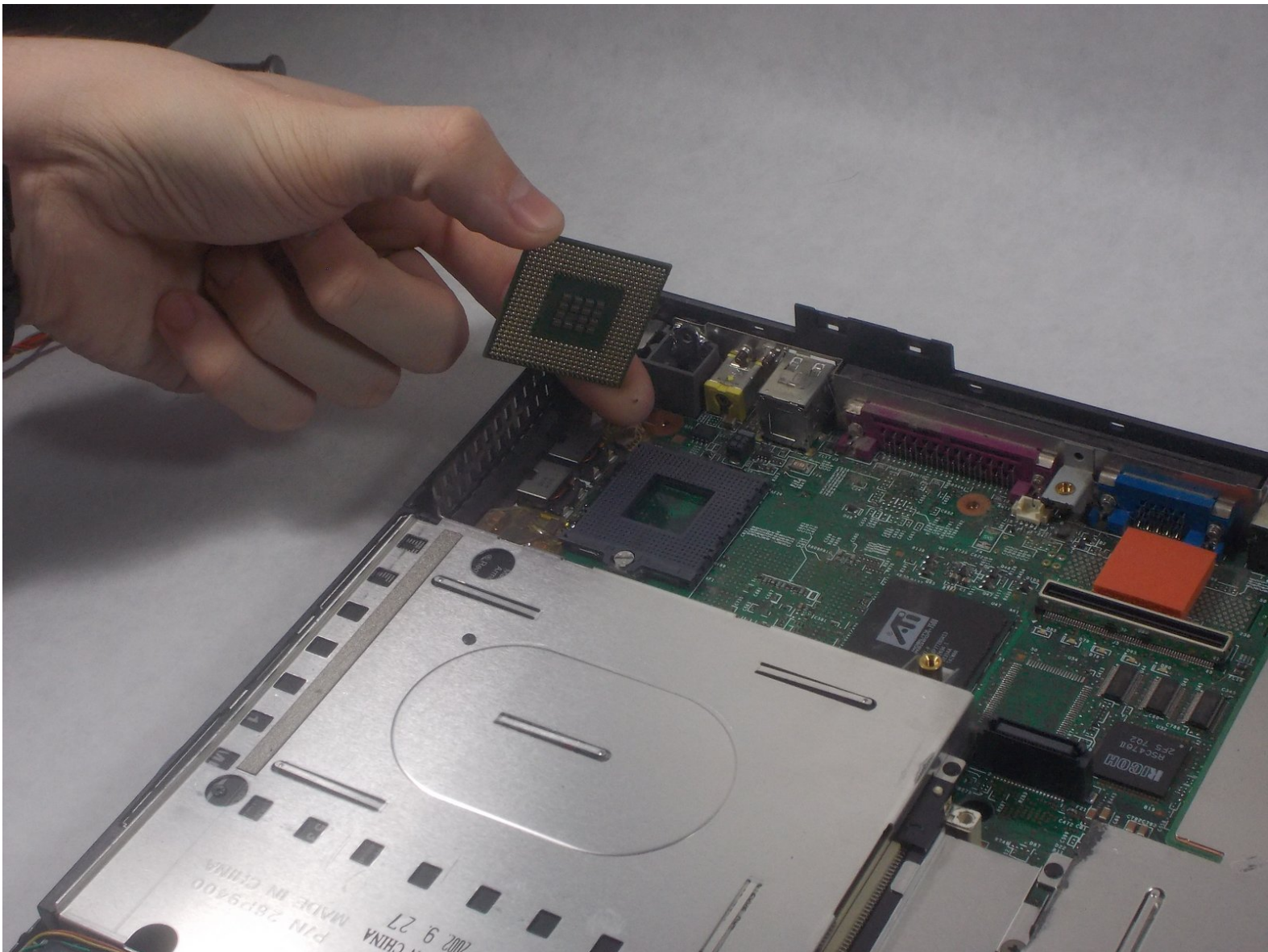




IBM ThinkPad A31 CPU Replacement

Use this guide to replace the CPU on your A31 ThinkPad.

Written By: Thomas Stone

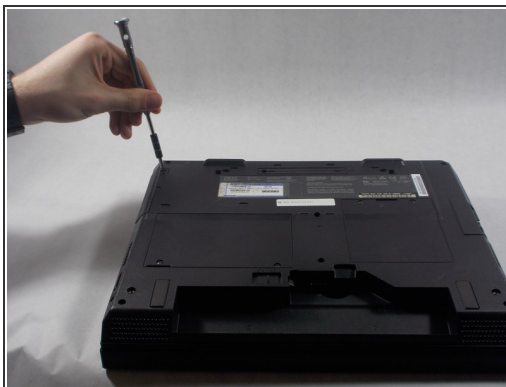




TOOLS:

- [iFixit Opening Tools](#) (1)
- [Phillips #1 Screwdriver](#) (1)
- [Flathead 3/32" or 2.5 mm Screwdriver](#) (1)

Step 1 — Hard Drive



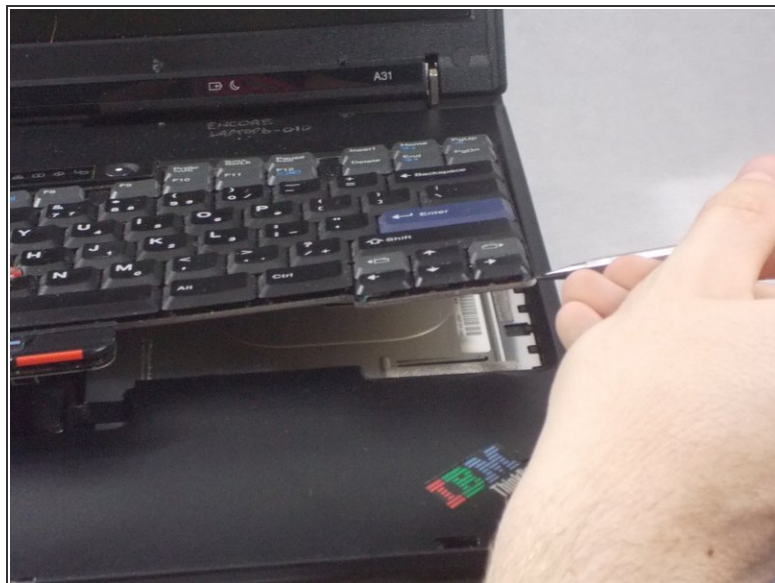
- Remove the 6mm screw
- Pull out the hard drive
- ☞ The hard drive might be a little tough to pull out

Step 2 — Keyboard



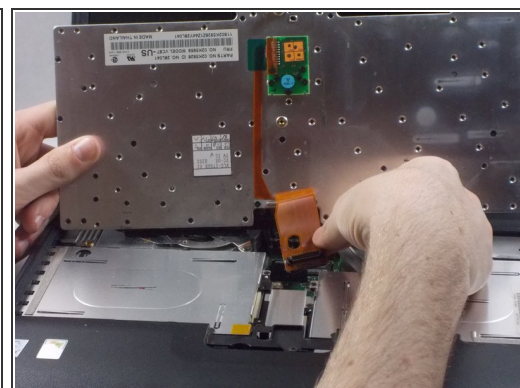
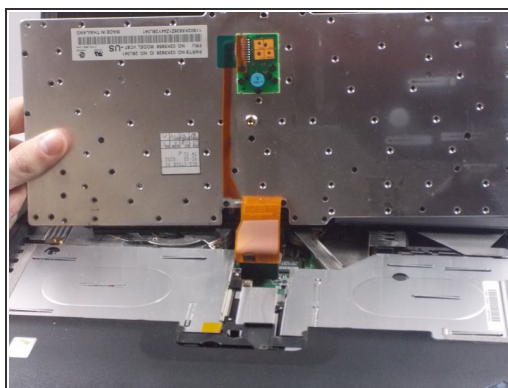
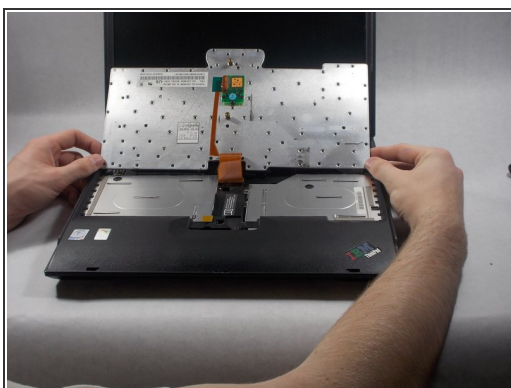
- ⚠ The sticker is to keep the warranty on the laptop so once removed the warranty is void
- Peel the sticker and remove the 15mm screw
- Remove all 6 of the 16mm screws

Step 3



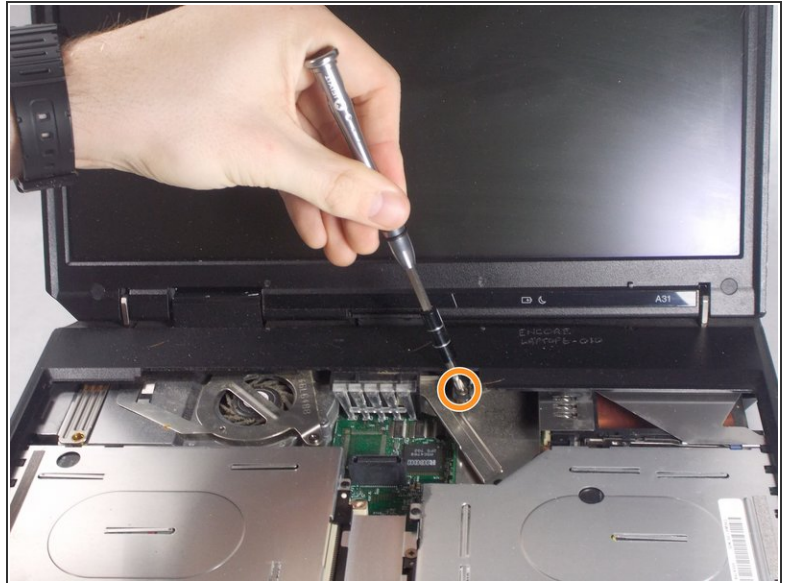
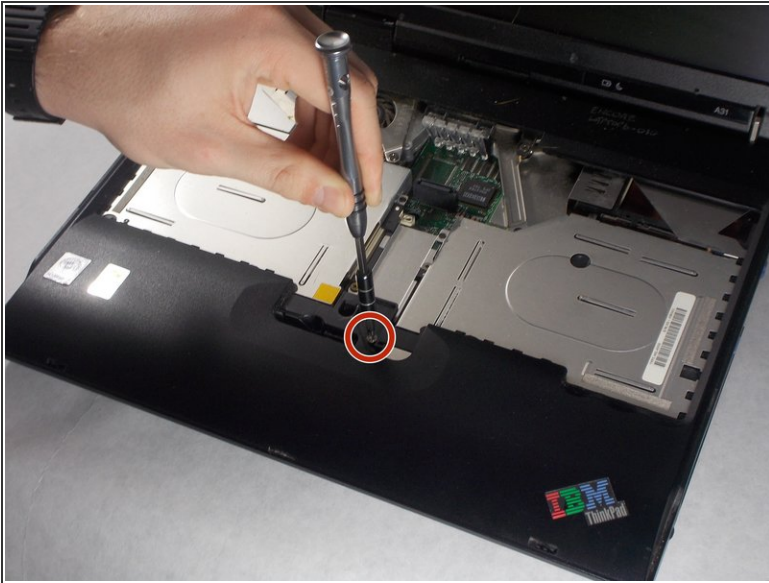
- use a prying tool and insert it on the cracks on the sides of the keyboard and lift gently until you hear a click
- repeat this step on all sides of the keyboard until the keyboard is completely detached from the laptop

Step 4



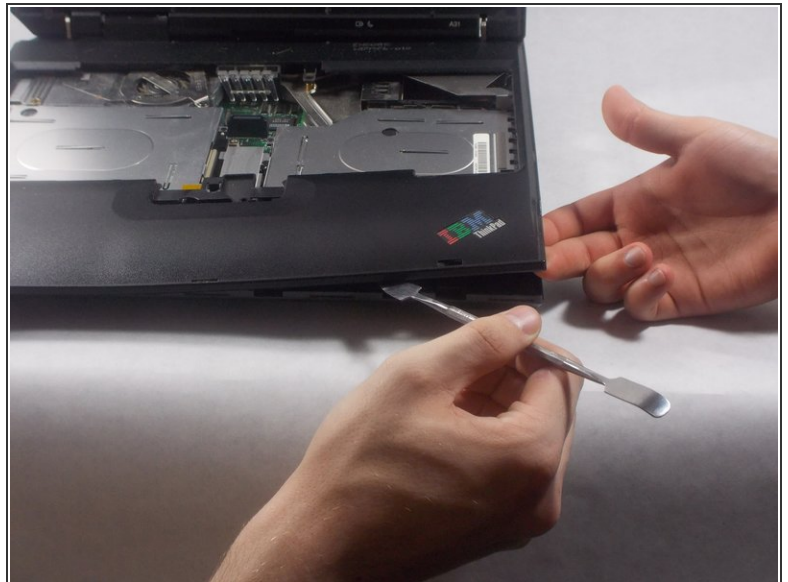
- Lift the keyboard and remove the keyboard ribbon cable from the laptop

Step 5 — Display



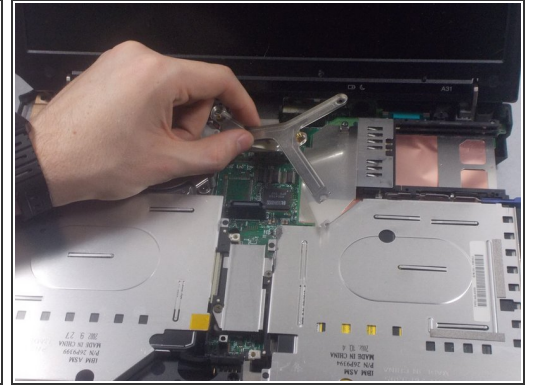
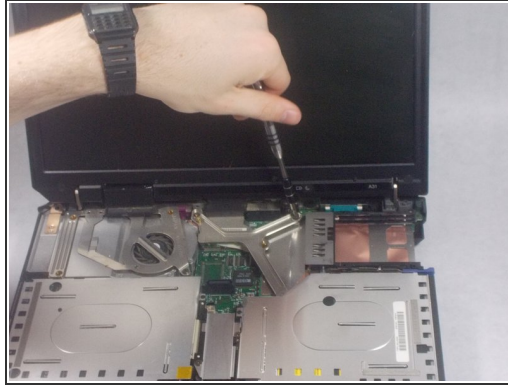
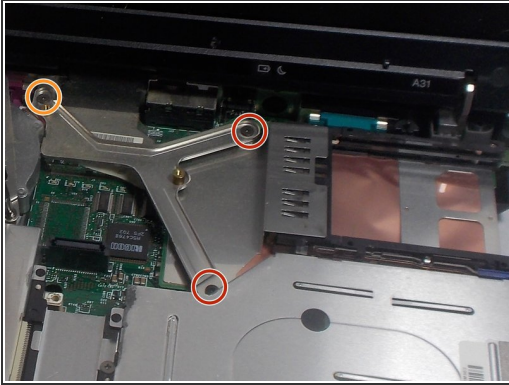
- Remove the one 21mm screw
- Remove the 6mm screw

Step 6



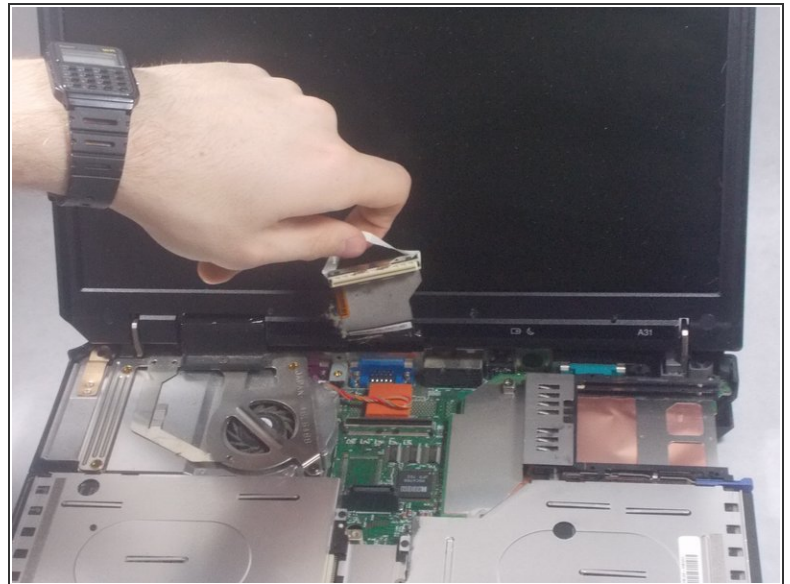
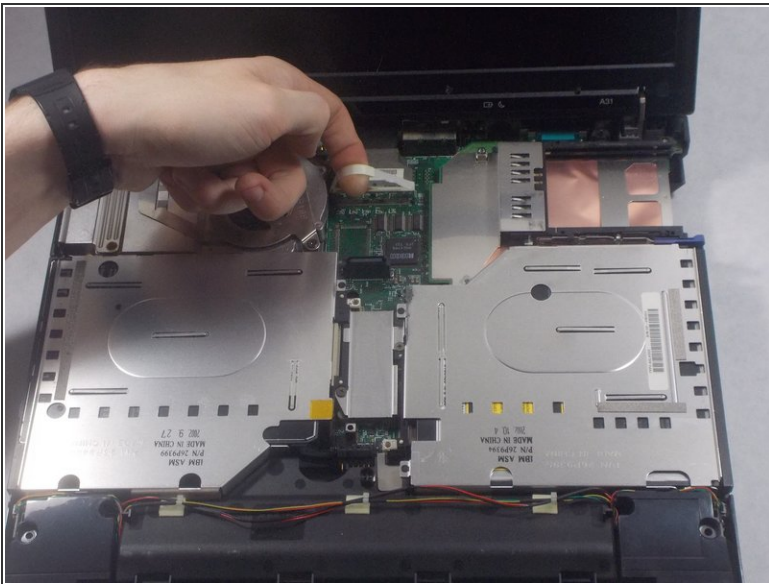
- Take the tool and run it under the black case.

Step 7



- Unscrew the 2 (17mm) screws
- Unscrew the 6mm screw

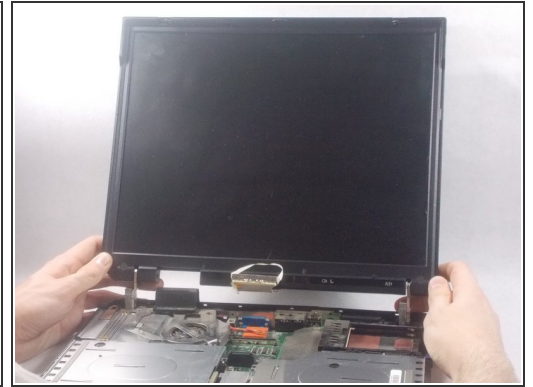
Step 8



- Gently disconnect the white display ribbon cable

⚠ Pulling on the ribbon cable too hard could result in worse or faulty connection.

Step 9



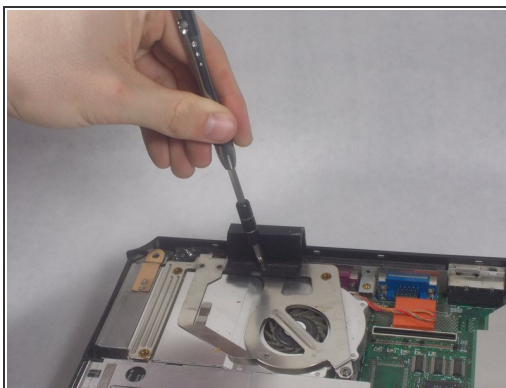
- Unscrew 4 (6mm) screws
 - Lift screen straight up
- ⚠ If not lifted straight up the screen could get damaged

Step 10 — Battery



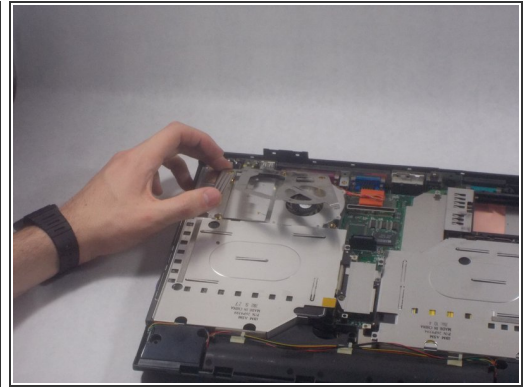
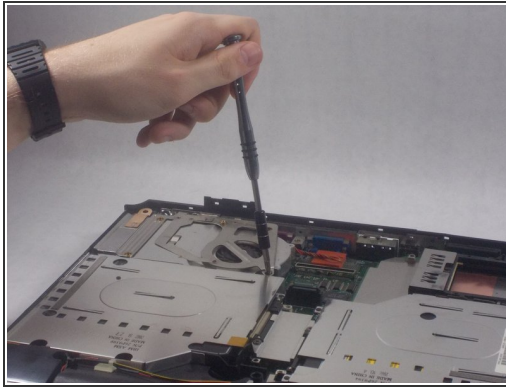
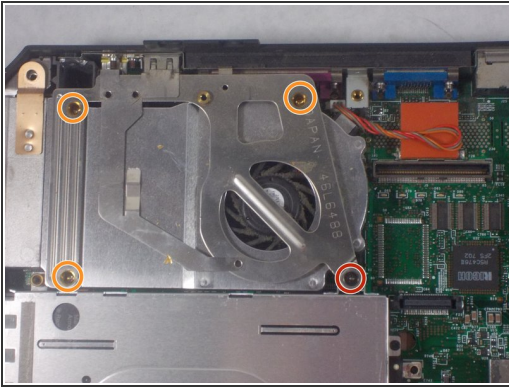
- Flip the ThinkPad over so that it is upside down.
 - Push latch switch to the left.
 - Gently lift the battery out and away from the ThinkPad
- i** You have to hold the latch to the left while you remove the battery. Simply pushing once will not unlock the battery

Step 11 — CPU



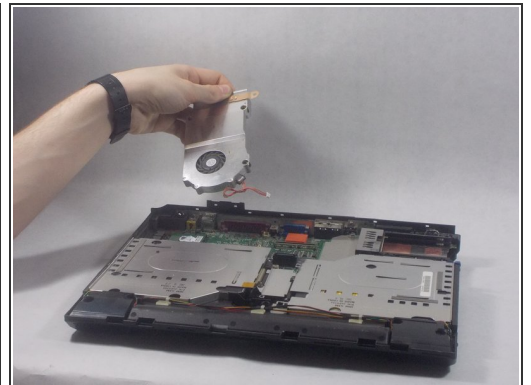
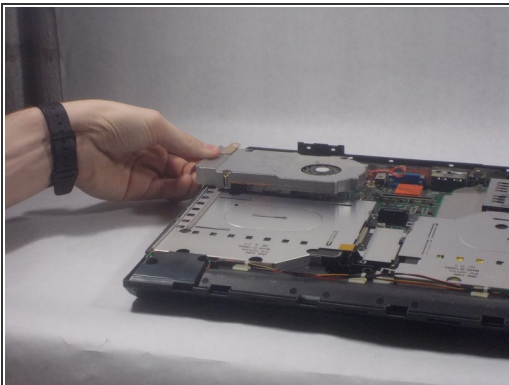
- Remove the 6mm screw
- Lift the bracket out

Step 12



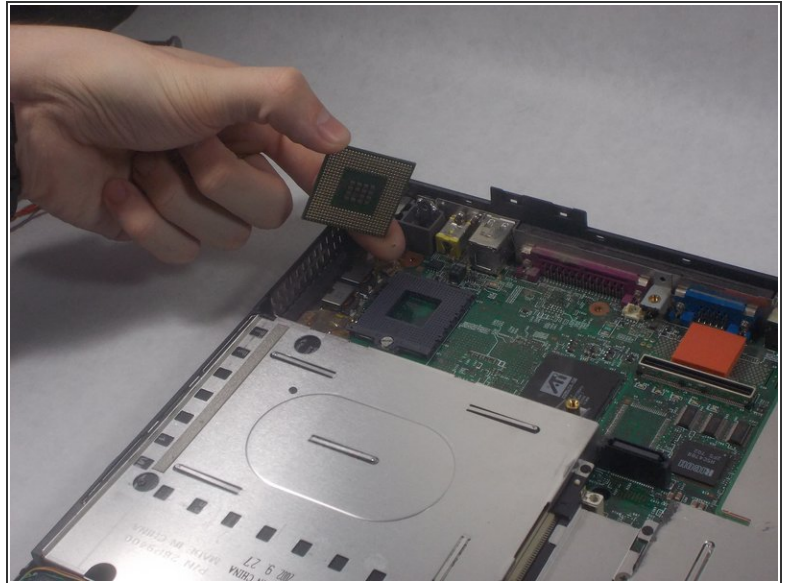
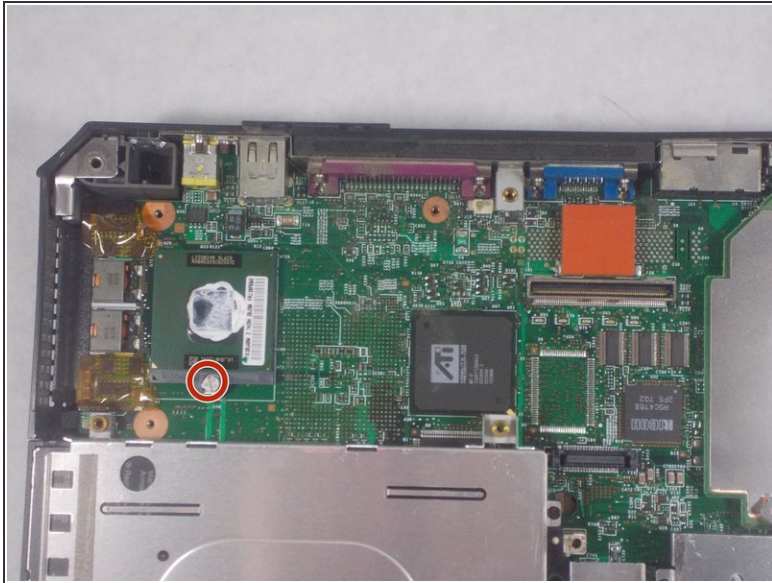
- Remove one 6mm screw
- Remove 3 18mm screws
- Take off the bracket on the CPU fan

Step 13



- Lift the CPU fan
- Pull out the cable attached to the motherboard

Step 14



- Turn the locking screw to unlock with the flat head screwdriver
- Lift the CPU out

To reassemble your device, follow these instructions in reverse order.