



# IBM ThinkPad T41 CPU Replacement

This is a step by step guide for replacing/repairing the CPU of an IBM ThinkPad T41 laptop. It will aid you in taking apart your laptop to reach the CPU.

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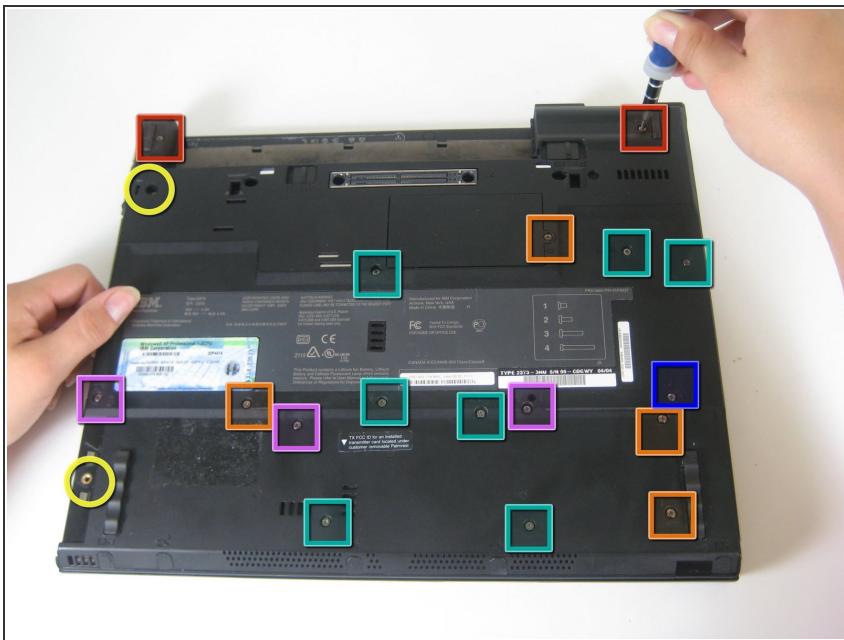
## INTRODUCTION

This repair guide will aid you in taking apart your IBM ThinkPad T41 laptop to reach and replace its CPU.

### TOOLS:

- Flathead 3/32" or 2.5 mm Screwdriver (1)
- Phillips #1 Screwdriver (1)
- Spudger (1)

## Step 1 — Keyboard



- Close the screen and turn the closed laptop over.
- Remove all 17 screws on the bottom of the computer.

● **i** The multiple colors (turquoise, red, blue, orange, yellow, and purple) are for organizational purposes, indicating different screws.

- The yellow marker at the rear denotes the UltraBay device retaining screw. This screw is optional as the UltraBay mechanism will hold the drive or battery in place anyway. The yellow marker at the front denotes the hard disk caddy retaining screw.

## Step 2



- Remove the extra RAM cover, by lifting where the screw was and pulling out.

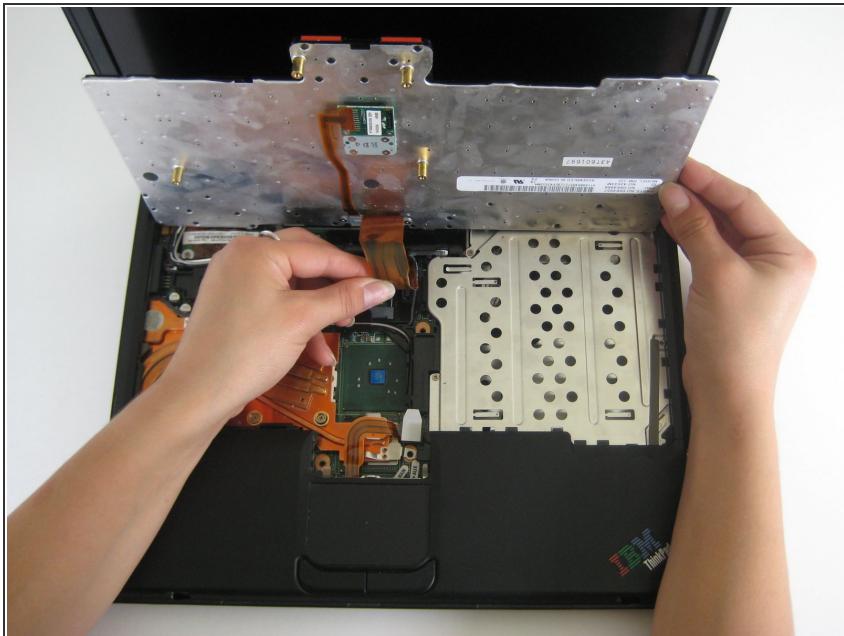
## Step 3



- Turn the laptop right side up and open the screen.
- Lift the keyboard, using a spudger at the seam between the keyboard and trackpad.

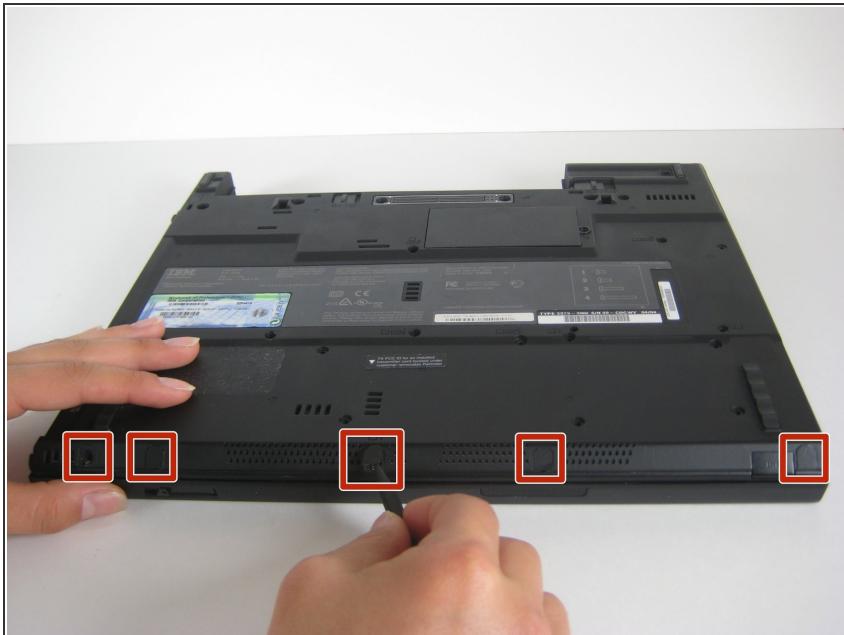
 Careful of the ribbon cable underneath, which may tear if the keyboard is lifted too vigorously.

## Step 4



- Unplug the keyboard's ribbon cable, by lifting up the edges of the plug.
- Remove the keyboard.

## Step 5 — Trackpad



- Close the laptop and turn it over.
- Remove the five plastic stickers covering the screws on the front edge of the case.

 In order to reuse the stickers, remove them carefully.

## Step 6



- Unscrew the five screws that were hidden by the stickers.

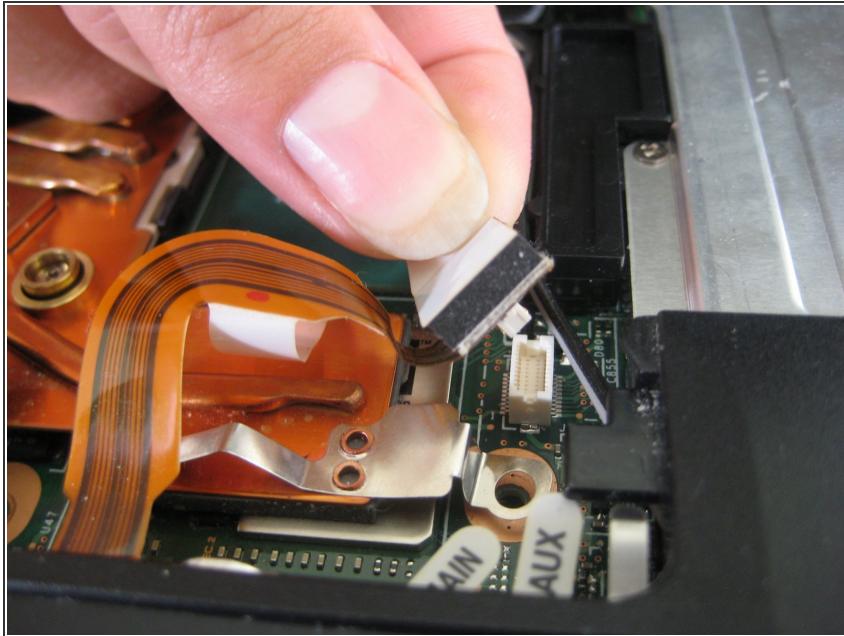
## Step 7



- Turn the computer right side up and open the screen.
- Lift the trackpad assembly by placing hands on both edges and then pull towards you till it is free of the case.

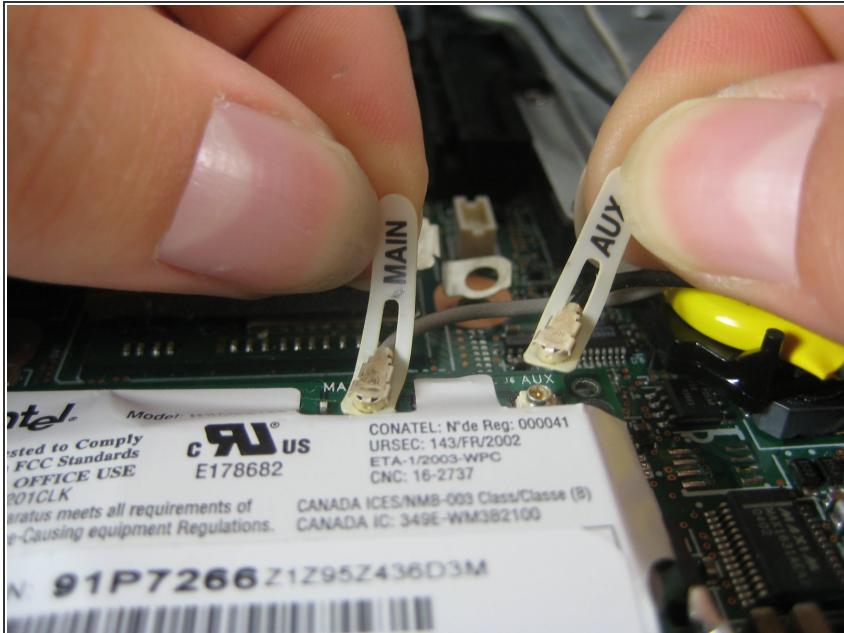
 Be careful of the ribbon cable underneath. It may tear if the trackpad is pulled too vigorously.

## Step 8



- Unplug the trackpad's ribbon cable by pulling on the white plastic tab.

## Step 9 — Wireless Network Card



- Pull off the one black and one white coaxial cables by lifting the tabs labeled main and aux (for auxiliary).

## Step 10



- Push apart the retaining clips.

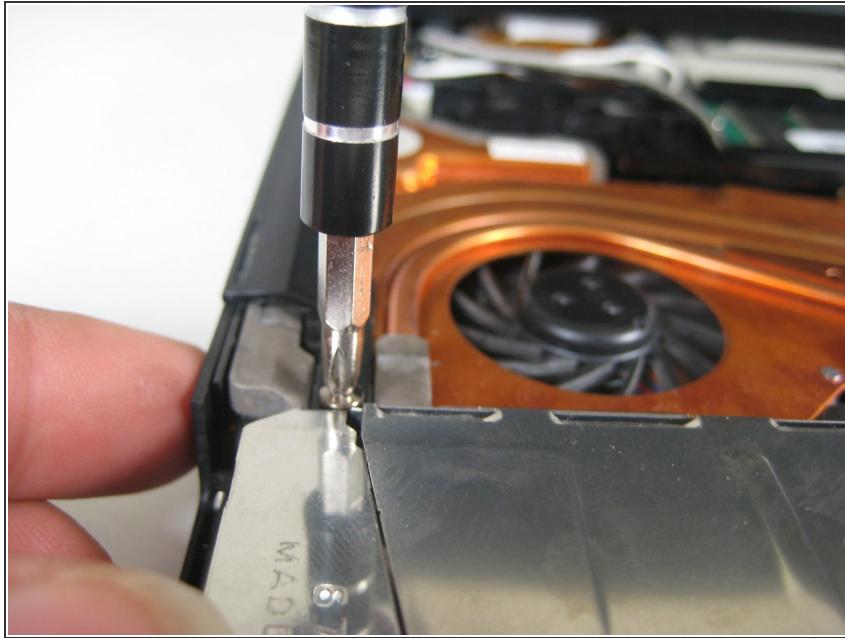
**i** Note: The card should pop up a little bit.

## Step 11



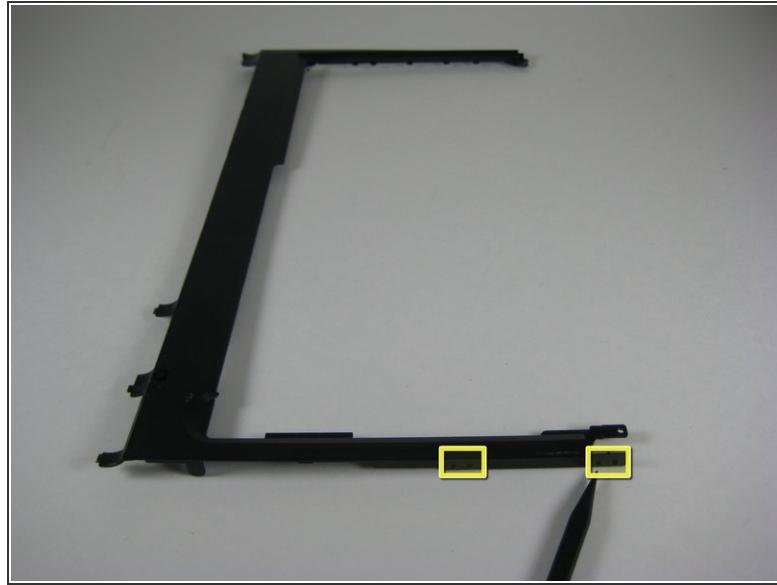
- Pull the wireless network card out.

## Step 12 — Expansion Slot



- Remove the screw on the left hand side of the case, above the expansion slot.

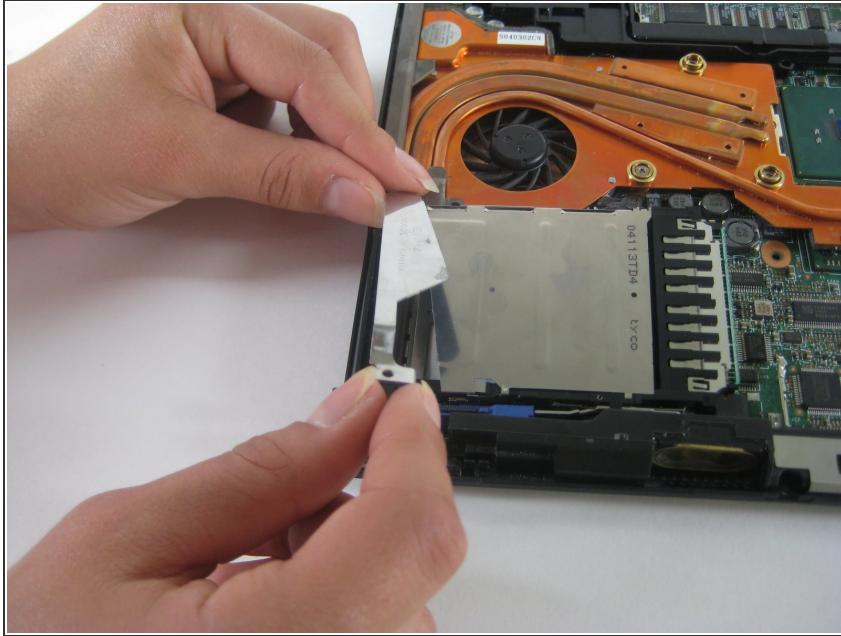
## Step 13



- Lift the black plastic border by lifting on either side.
- Once the sides are up, pull the border towards you and away from the screen.
- When lifting up, there are two pairs of plastic clips hooking into the fan grill. If you pull hard enough the border will come away, but it's better to push the clips with the spudger.

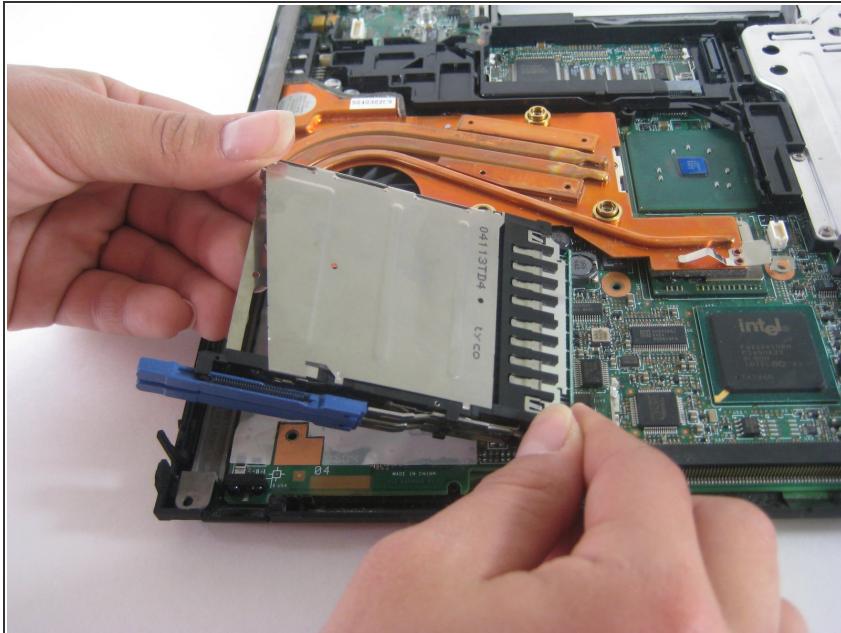
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## Step 14



- Pull the sheet metal cover away from slot.

## Step 15



- Lift out the expansion slot by starting at the entrance hole and pulling upward.

***i*** Note: Try wiggling the slot from side to side until it comes out all the way.

## Step 16 — Modem



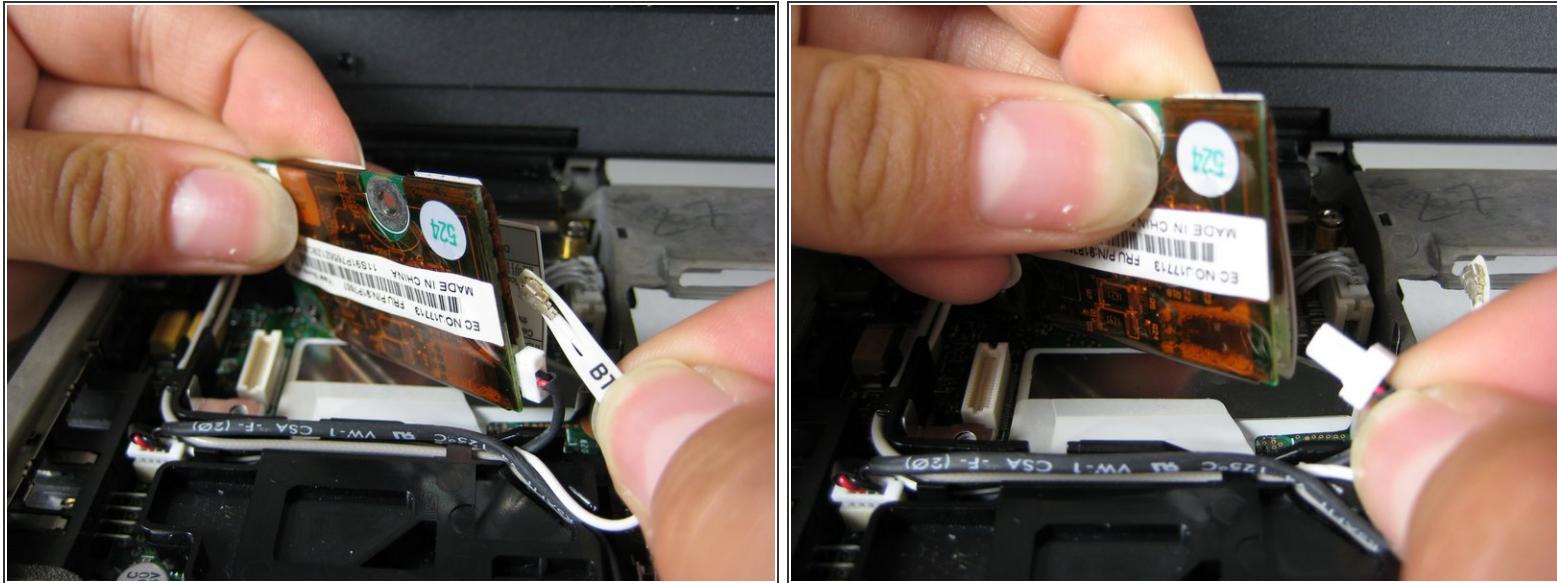
- Remove the three screws holding down the modem in the upper left corner of the laptop.

## Step 17



- Lift the modem up, unplugging it from the motherboard as you lift.

## Step 18



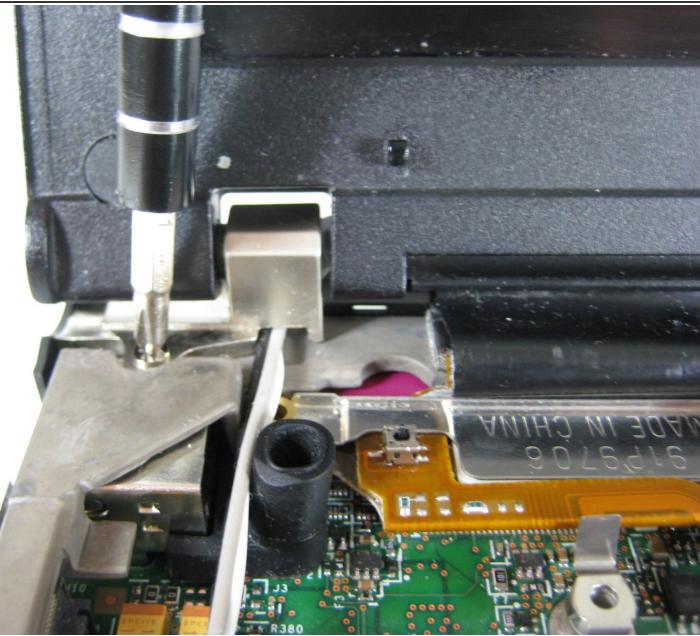
- Pull out the wire that connects the modem to the screen.
- Unplug the other cable that attaches the modem to the motherboard

## Step 19 — Screen



- Close the computer screen.
- Remove the four screws on the back of the laptop, near the right and left hinges.

## Step 20



- Open the laptop screen.
- Remove the single screw that secures the left hinge to top of the computer.

## Step 21



- Remove a single screw from the metal plate that secures the display cable.

## Step 22



- Pull the metal plate away from the display cable.

## Step 23



- Disconnect the display cable.

## Step 24



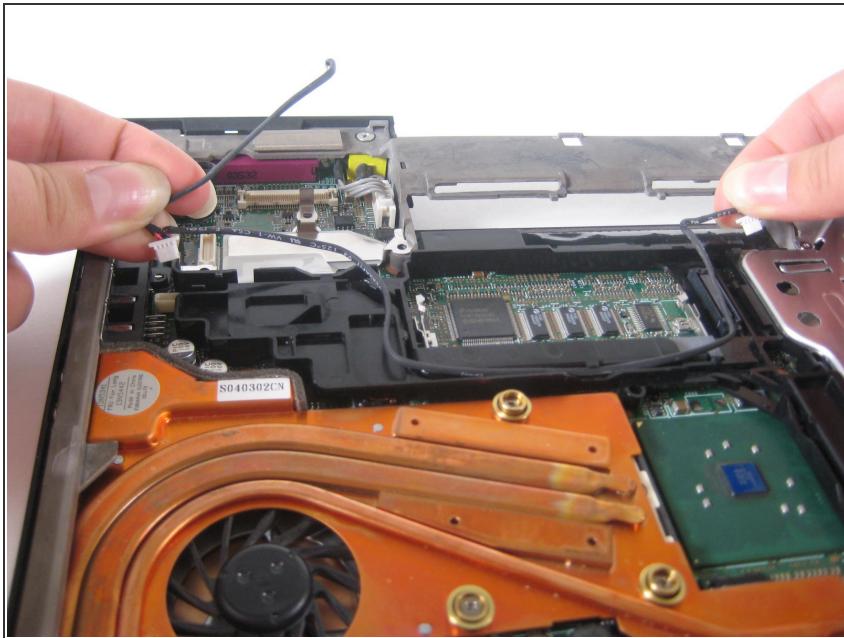
- Carefully pull up the long antenna cables that were attached to the wireless network card.

## Step 25



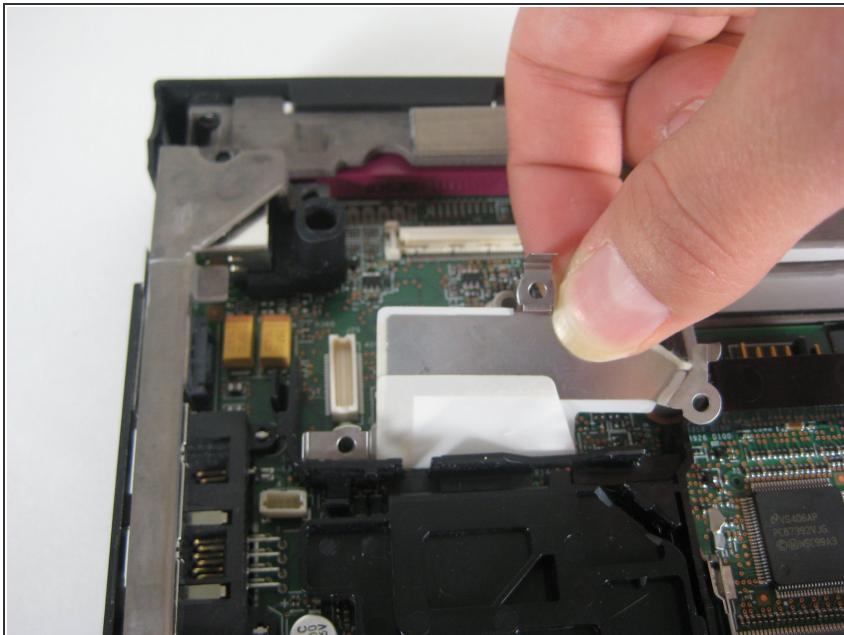
- Lift out the screen.

## Step 26 — Fan



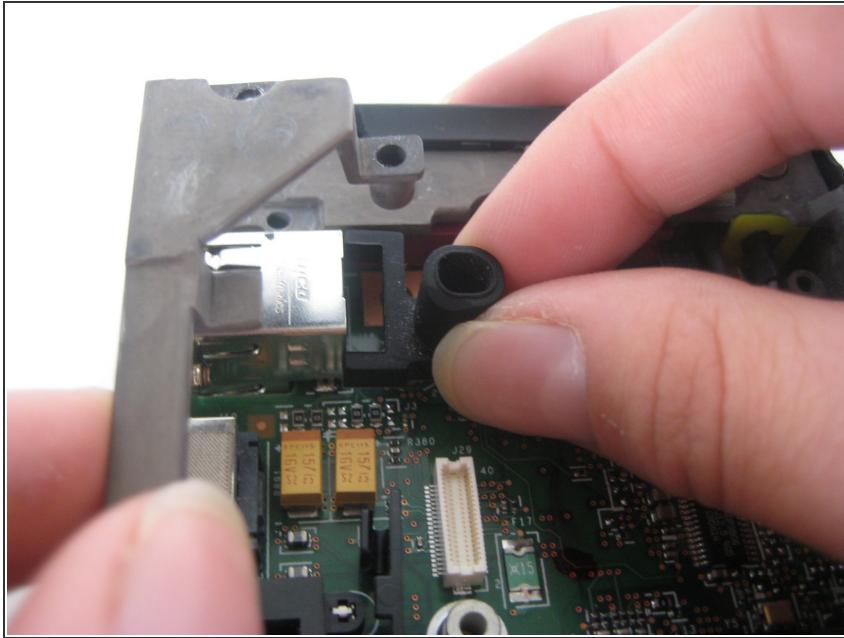
- Unscrew the black cable from the black plastic frame.

## Step 27



- Remove the sheet metal piece, which was underneath the modem.

## Step 28



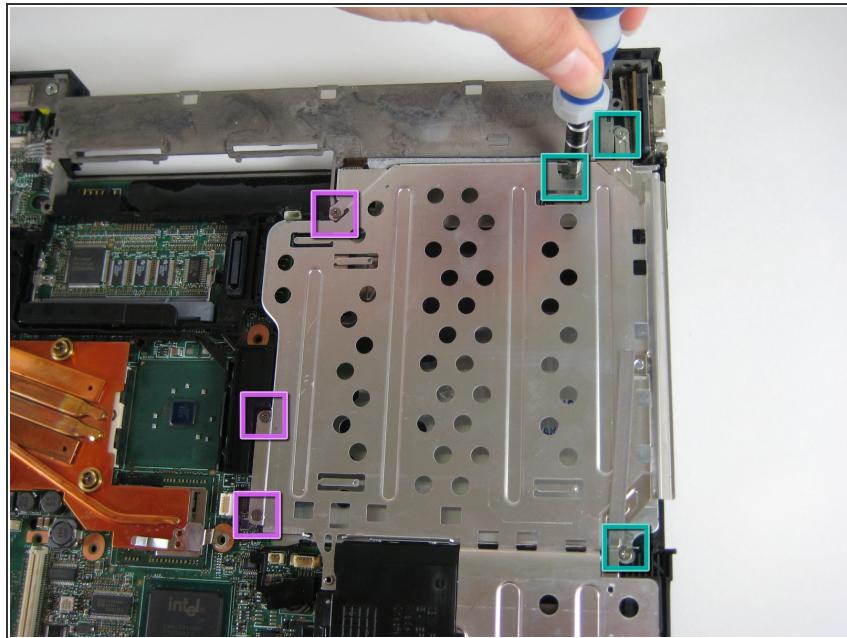
- Remove the rubber microphone cover in the upper left hand corner by lifting up the gray metal frame.

## Step 29



- Lift away the gray metal frame.

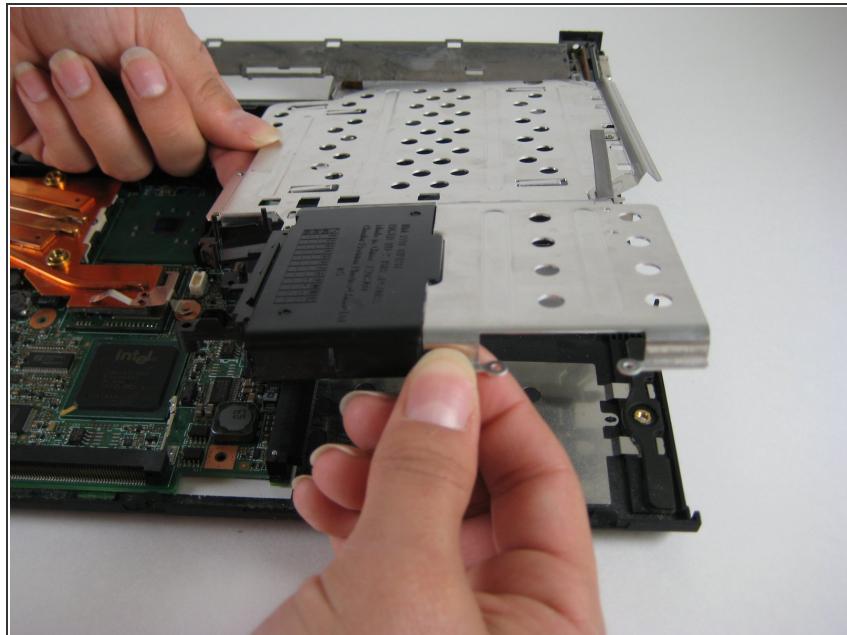
## Step 30



- Remove three screws near the edge of the computer, holding the optical bay and HDD covers.
- Remove three other screws on the other side of the covers.

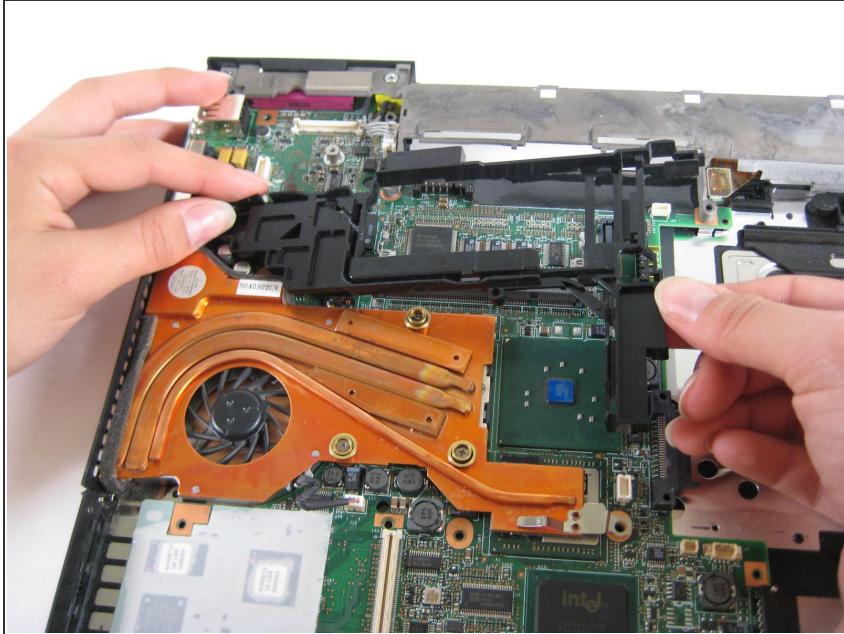
*(i)* You should have six screws in total, three of one size and three of another size.

## Step 31



- Lift out the optical bay and HDD covers.

## Step 32



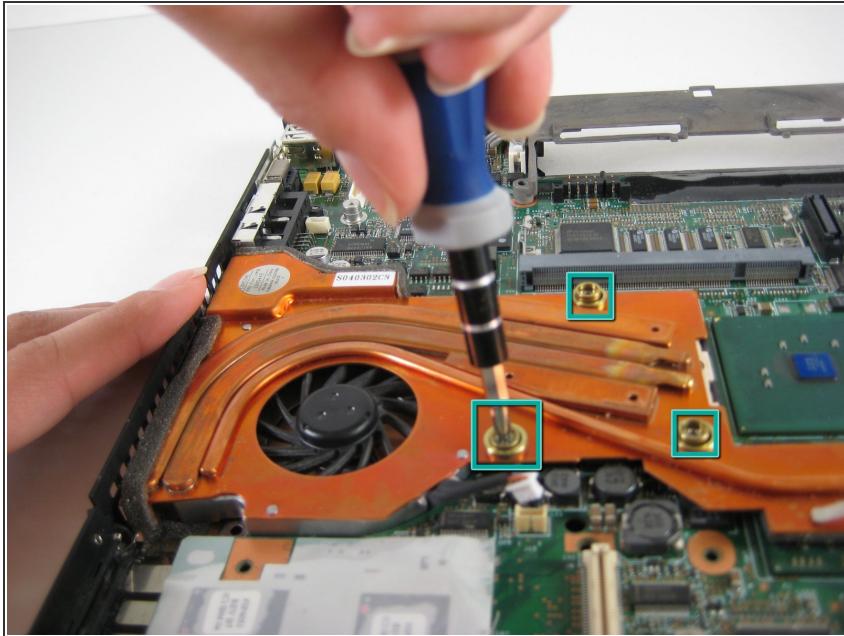
- Lift out the black plastic frame.

## Step 33



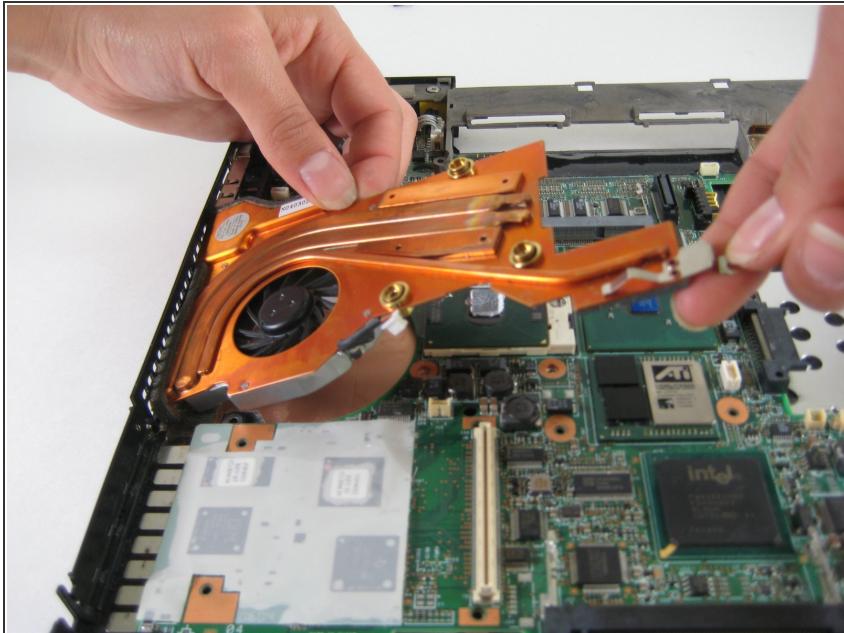
- Unplug the fan from the motherboard.

## Step 34



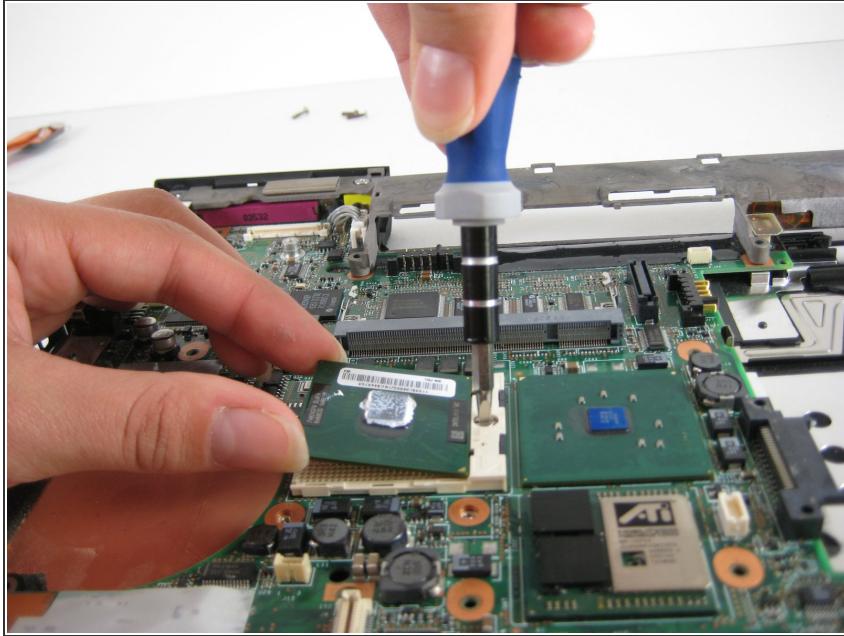
- Remove the three screws on the fan.

## Step 35



- Lift the fan out.

## Step 36 — CPU



- Turn the CPU retaining screw 90 degrees counterclockwise.
- Carefully pull the CPU out of its socket.

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