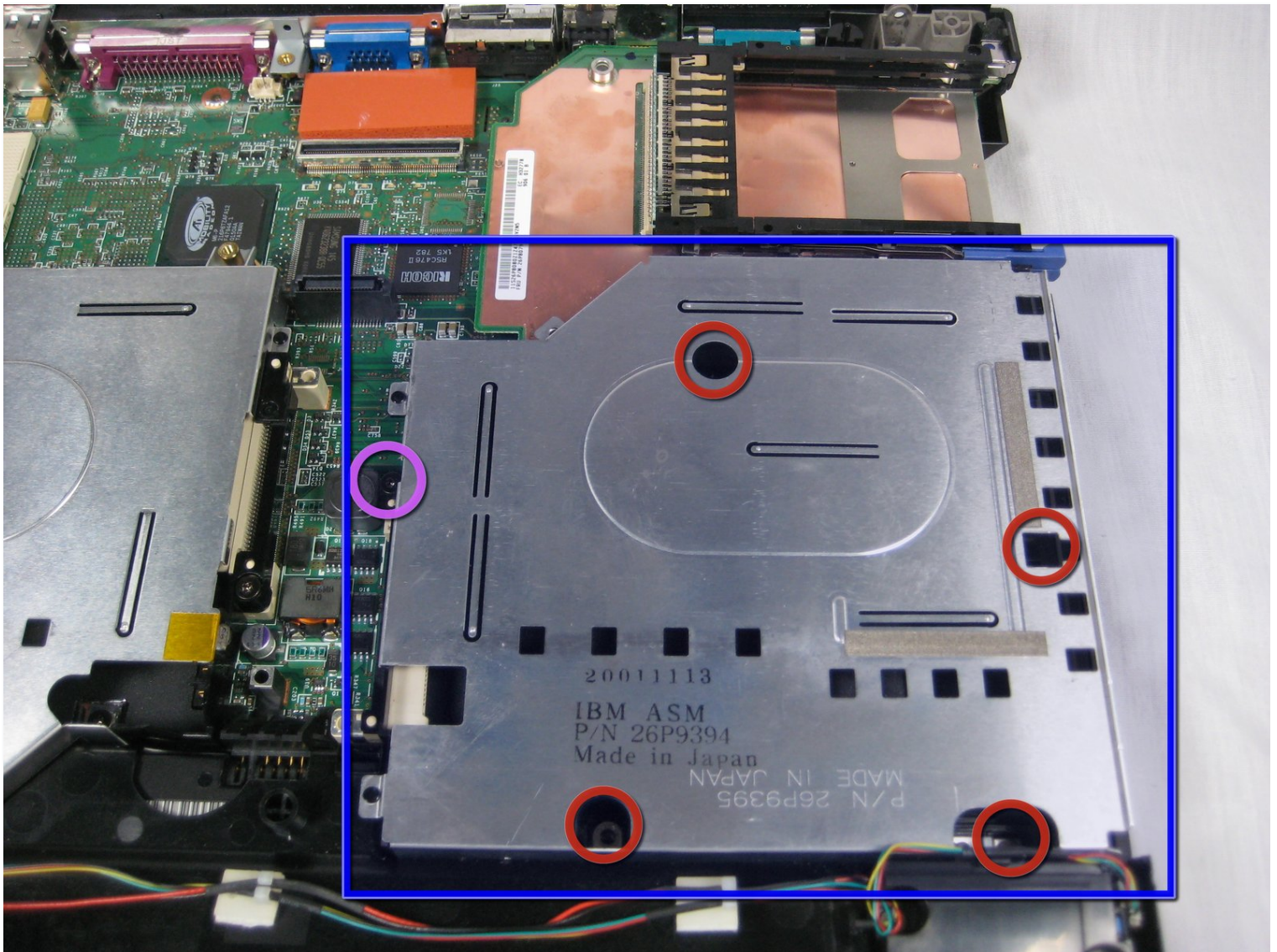




Disassembling IBM ThinkPad A30 Speakers

In this step-by-step guide, you will be...

Written By: Alan



INTRODUCTION




In this step-by-step guide, you will be removing the speakers from the Thinkpad A30 for replacement.

TOOLS:

Phillips #00 Screwdriver (1)

Step 1 — Battery



-  Flip the ThinkPad over so that it is upside down.
-  Slide the highlighted tab to the left.
-  With your finger on the tab, remove the battery by lifting it upwards away from the laptop.

Step 2 — Upper Case



- ❗ Make sure the laptop is upside down and oriented in the direction shown.
- Remove the six 16.7mm screws inside the circled holes.

Step 3



- Rotate the ThinkPad so that the hard drive bay is facing you.
- Remove the black cover to reveal a 14.8mm screw.
- Remove the uncovered screw with a Phillips #0 screwdriver.

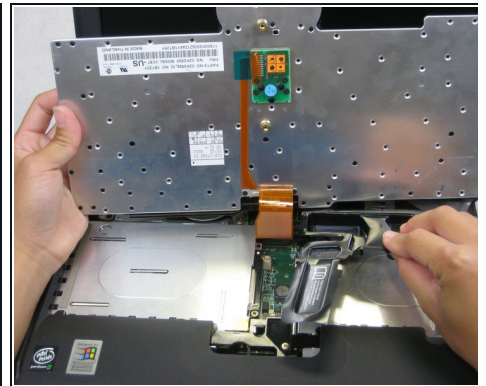
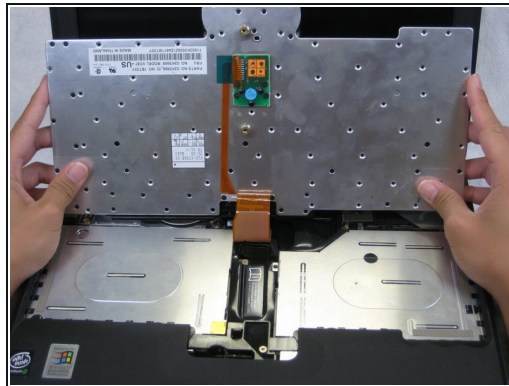
Step 4



① Flip the ThinkPad over and open the LCD panel.

- Pry apart the keyboard with a plastic opening tool or with your fingers.

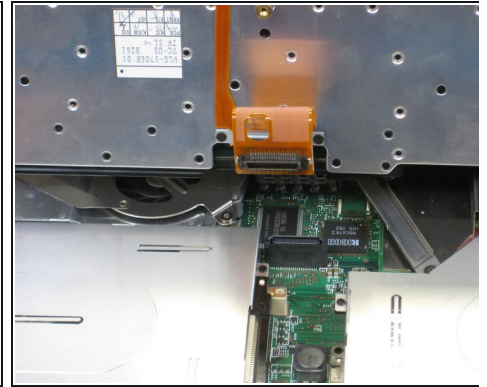
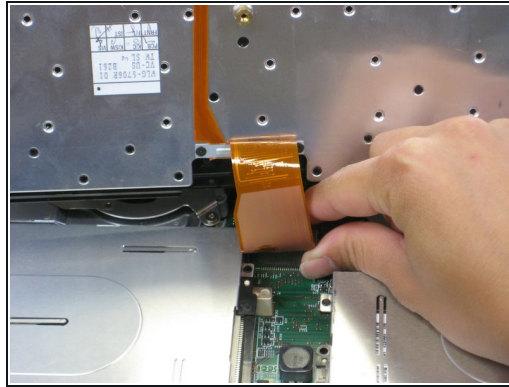
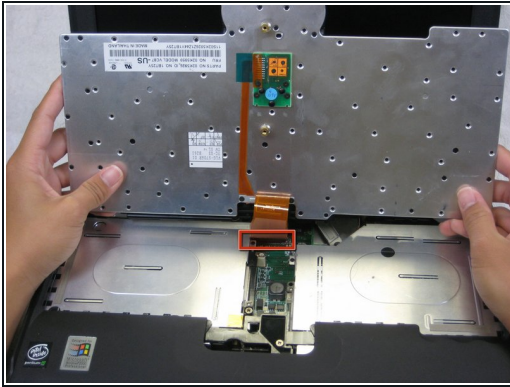
Step 5



⚠ Be careful not to pull out the keyboard carelessly; there is a connector underneath it!

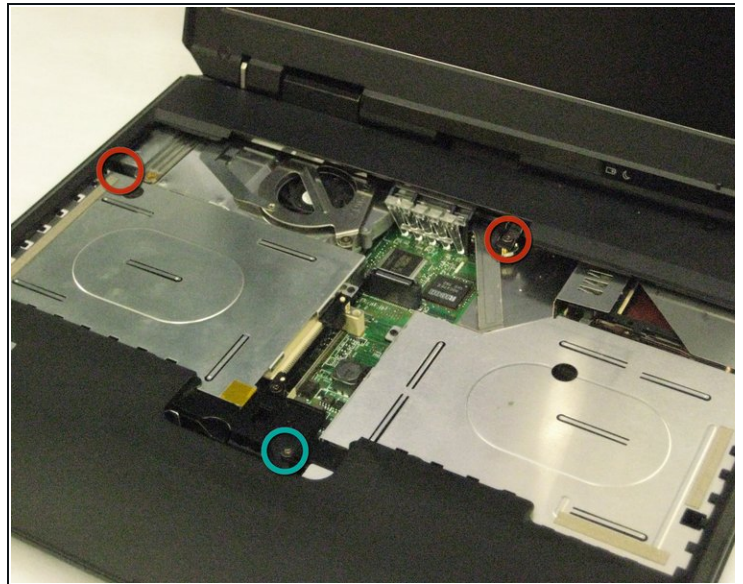
- Lift the front end of the keyboard as shown.
- Using your fingers, remove the black film cover.

Step 6



- Locate the connector attached to the motherboard.
- Disconnect the ribbon cable by removing the connector.

Step 7



- Lift and remove the keyboard.
- Remove the two 5.6mm screws.
- Remove the 16.7mm screw.

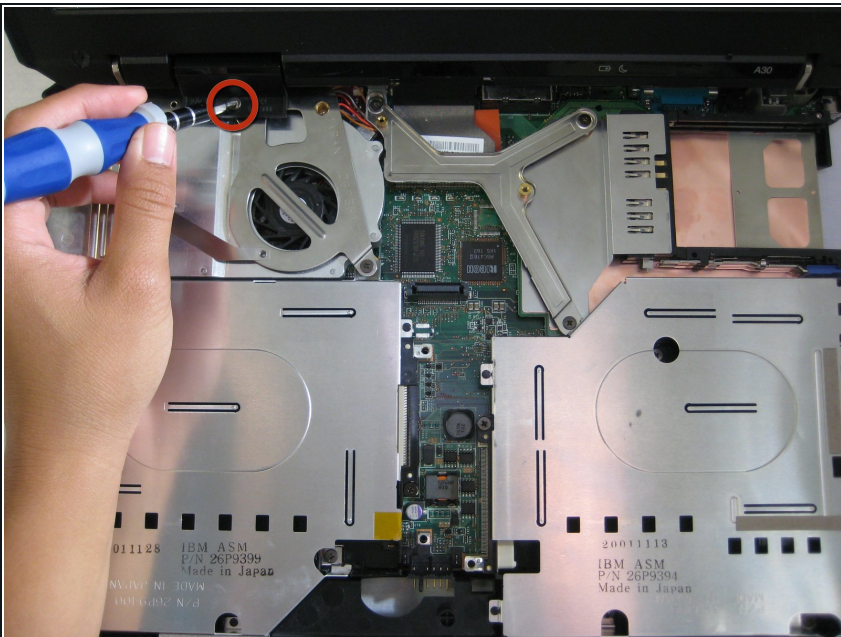
Step 8



⚠ You will need to use a little force. Be wary of the tabs.

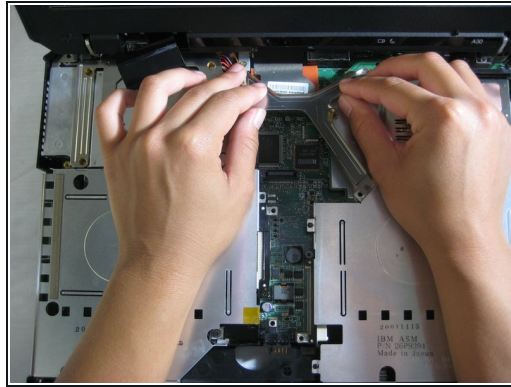
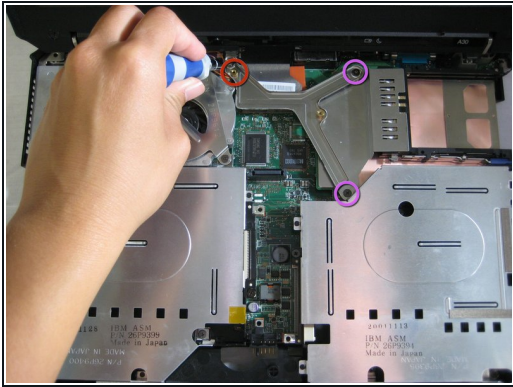
- Pry off the upper case with your hands.

Step 9 — Display Assembly



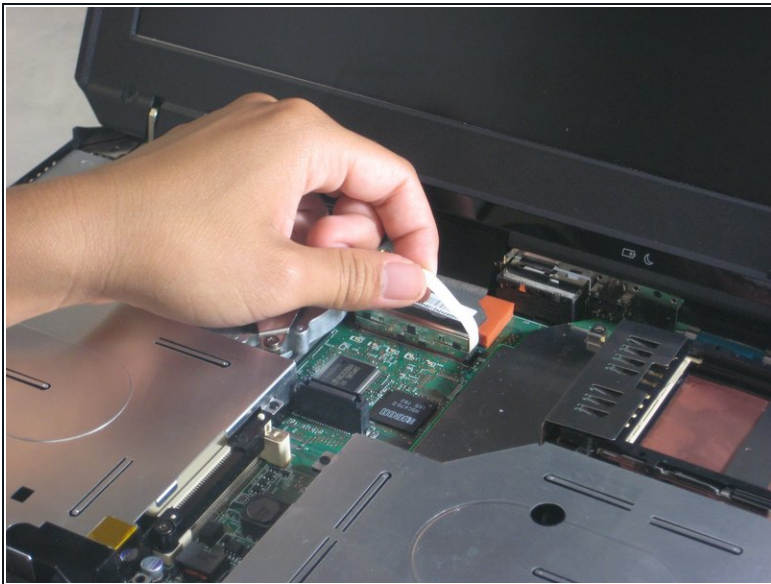
- Remove the 5.6mm screw that holds the LCD to the upper case.

Step 10



- Remove the 5.6mm screw on the left side of the three-pronged connector.
- Remove the other two 16.7mm screws.
- Lift and remove connector.

Step 11



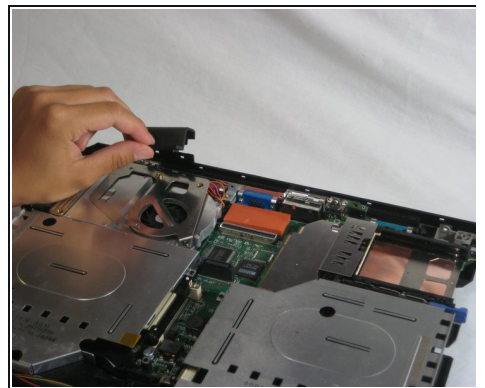
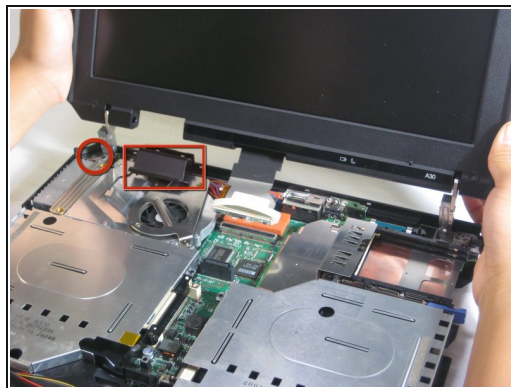
- Pull out the white tab connecting the LCD to the motherboard.

Step 12



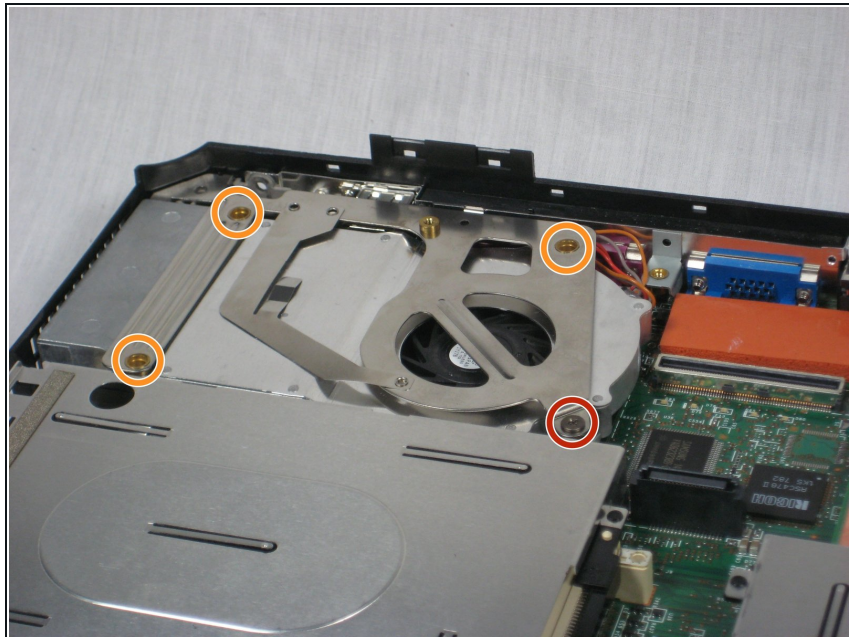
- Turn the laptop so that the back is facing you.
- Remove the four 5.6mm long screws.

Step 13



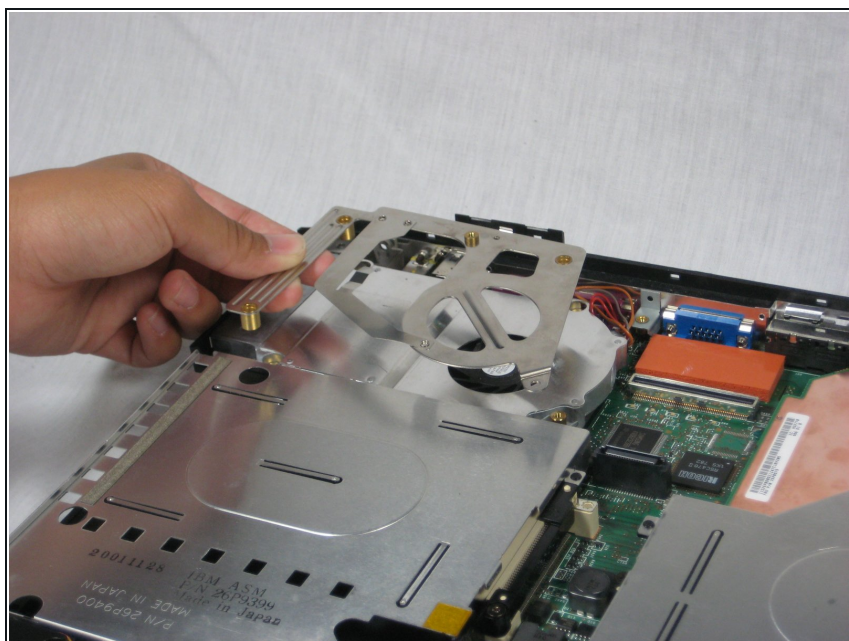
- ① Place the laptop so that the LCD is facing you again.
- Gently lift the LCD monitor up and out.
- Remove the black plastic tab.

Step 14 — Fan



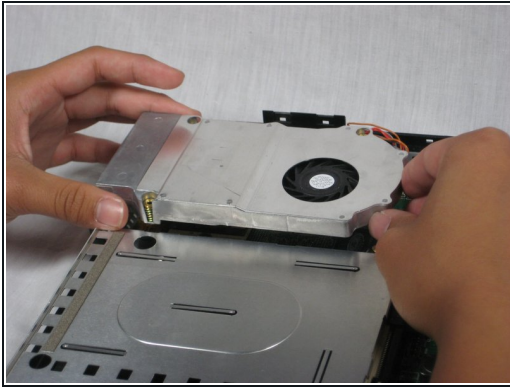
- Remove the following screws from the fan retention bracket:
 - Single 5.6 mm screw.
 - Three 16.1 mm screws.

Step 15



- Lift the heatsink bracket up.

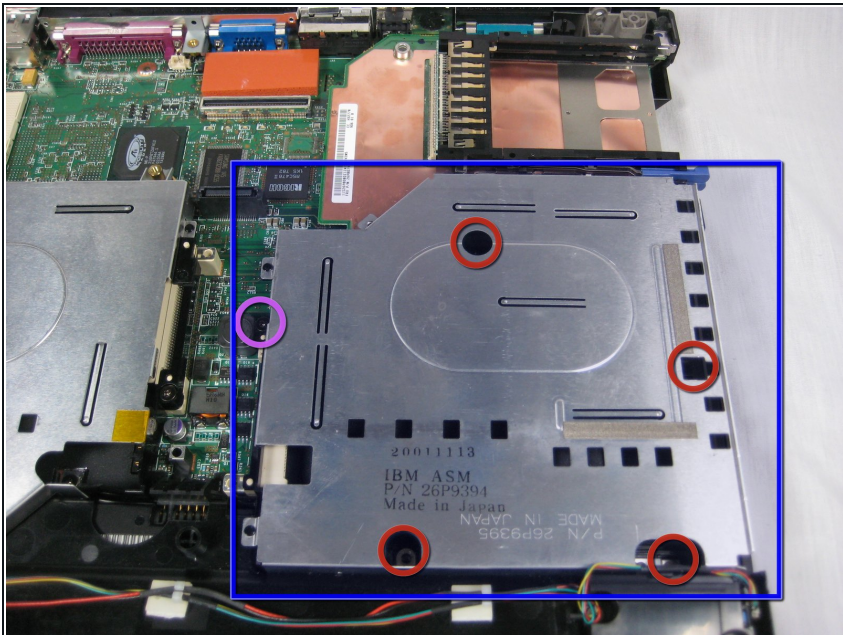
Step 16



 Be careful not to pull too hard. There is a cable attached to the fan.

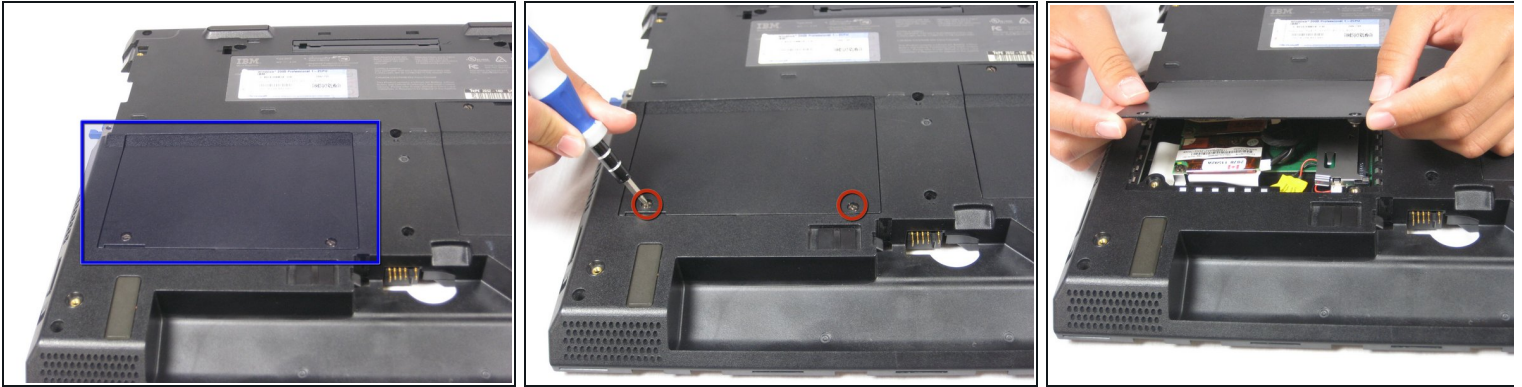
- Lift the fan/heatsink assembly up.
- Locate the fan power cable and pull upwards near the connector.
- Remove the fan/heatsink assembly.

Step 17 — Speakers



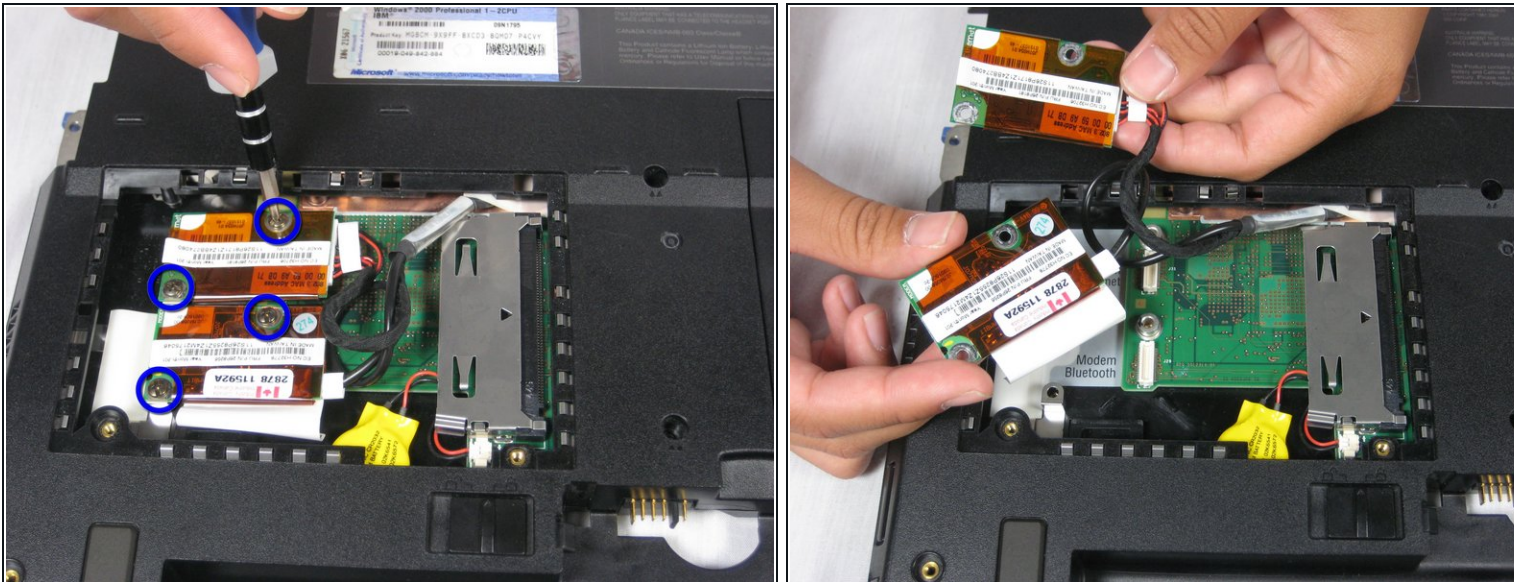
- Locate the floppy drive bay.
- Remove the four 5.6mm screws.
- Remove the 16mm screw.

Step 18



- Turn the laptop over so the battery is facing you.
- Locate the modem and ethernet card bay.
- Remove the two 5.3mm cover screws.
- Gently lift the cover.

Step 19

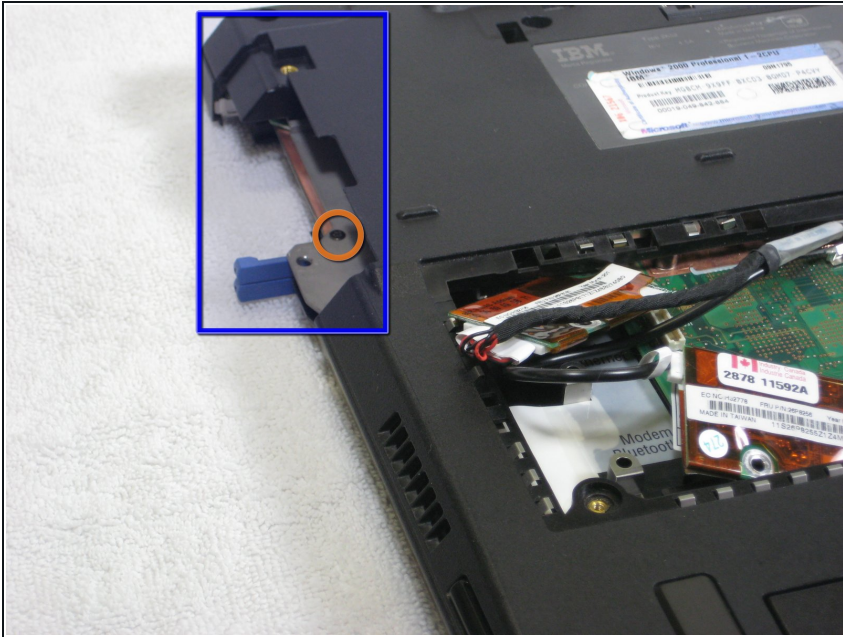


- Remove the four 9.1mm screws attached to the modem and ethernet cards.

⚠ When lifting the cards, be careful not to rip out the cables!

- Gently lift the modem and ethernet cards.

Step 20



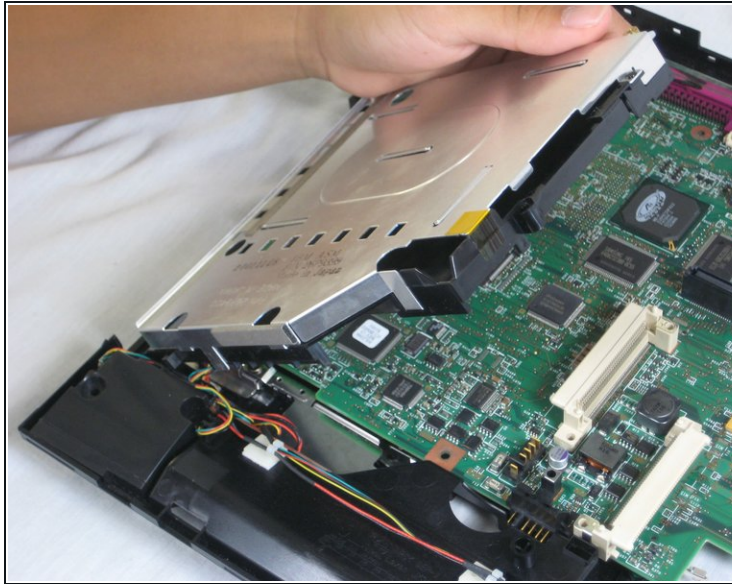
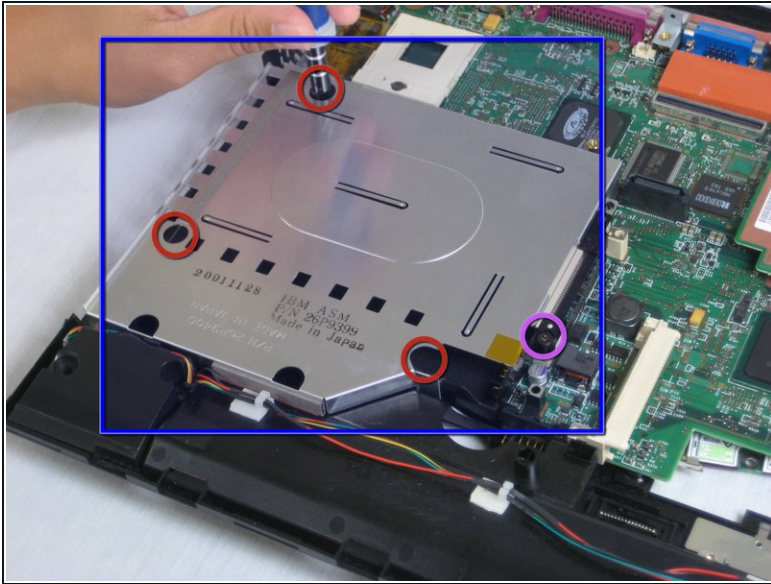
- Locate the hard drive slot.
- Remove the 8.8mm screw with a Phillips #0 screwdriver.

Step 21



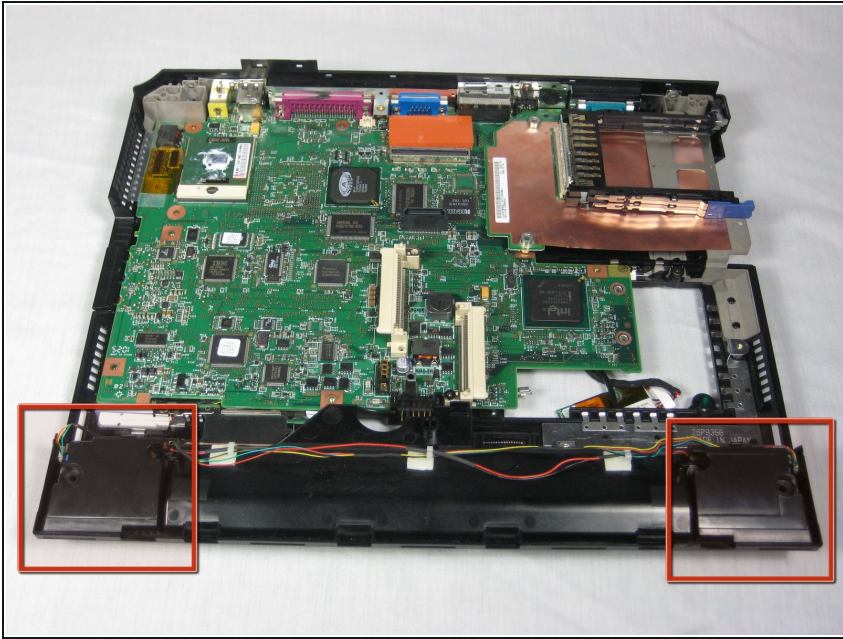
- Turn the laptop over again and orient it as shown.
 - Lift the left side of the floppy disk bay and pull it out.
- ⓘ The black lever will pop out.

Step 22



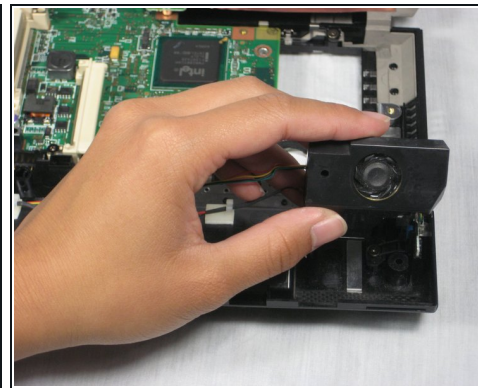
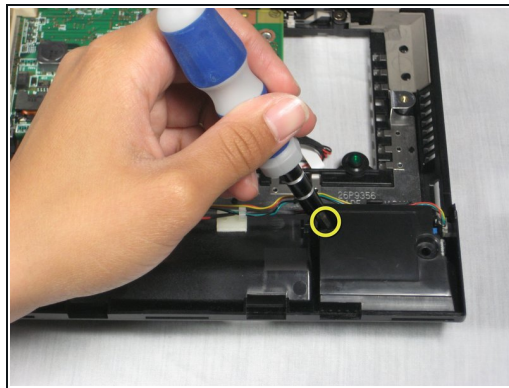
- Locate the CD Drive Bay
- Remove the three 5.6mm screws.
- Remove the 16mm screw.
- Lift the right side and pull the CD drive bay out.
- ⓘ The black lever will pop out.

Step 23



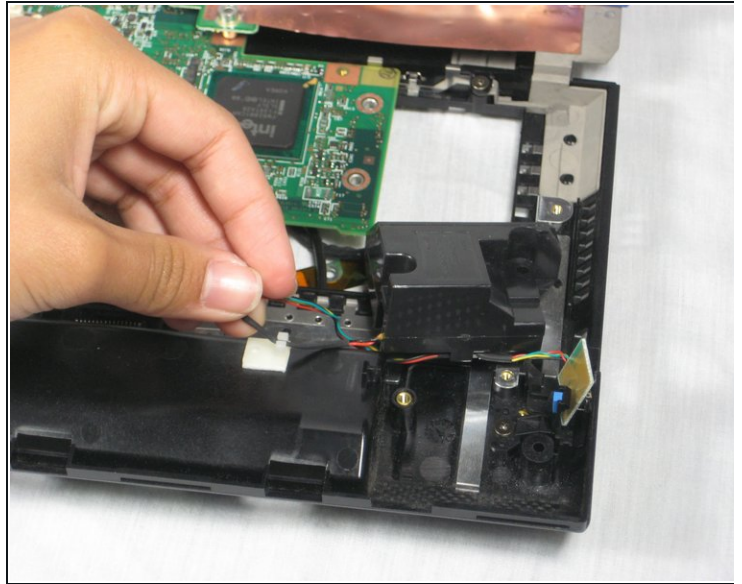
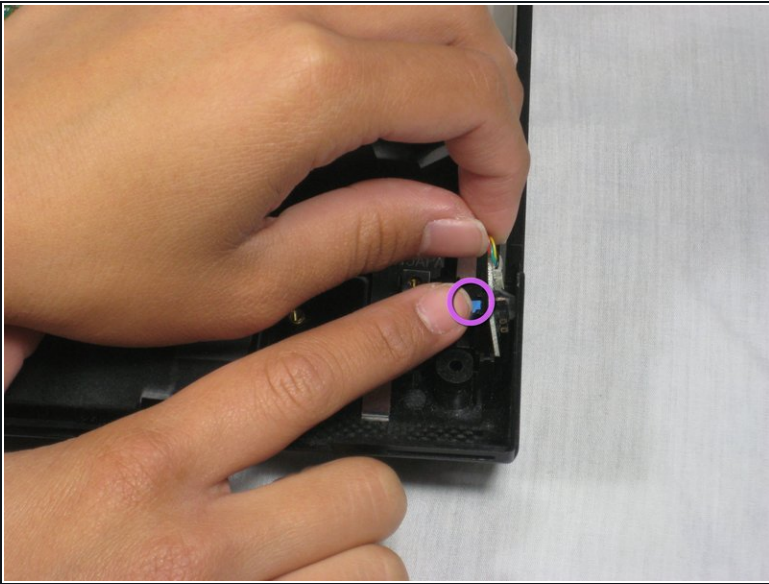
- Locate the speakers on the bottom left and right of the ThinkPad A30.

Step 24



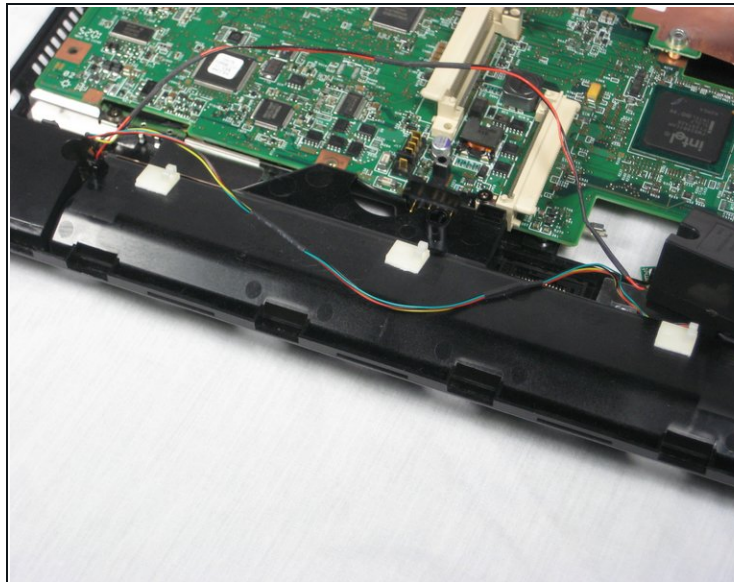
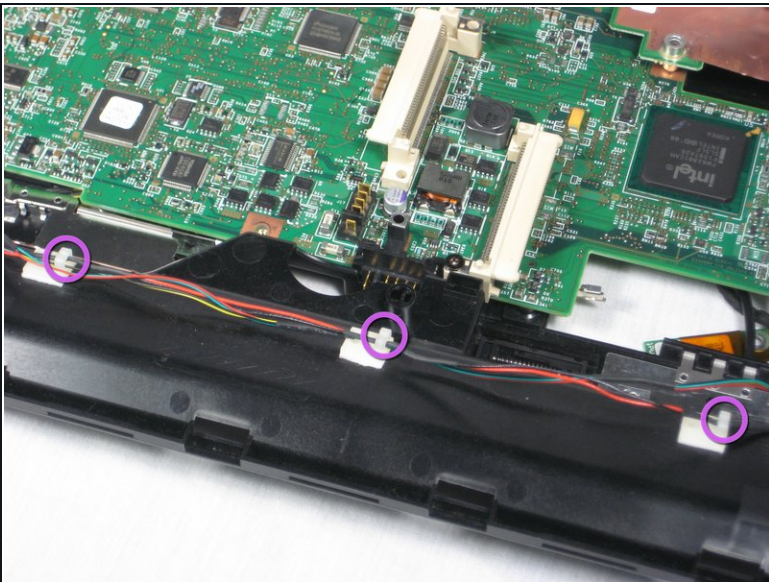
- Remove the 5.6mm screws on each speaker.
- Pull the right speaker out, making sure there is still slack in the wire.

Step 25



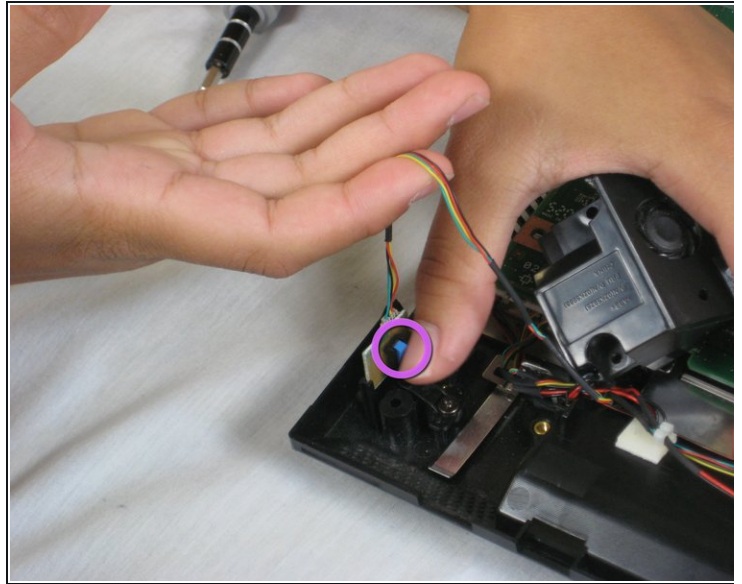
- Pull the blue tab that holds the speaker chip and pull the chip out.

Step 26



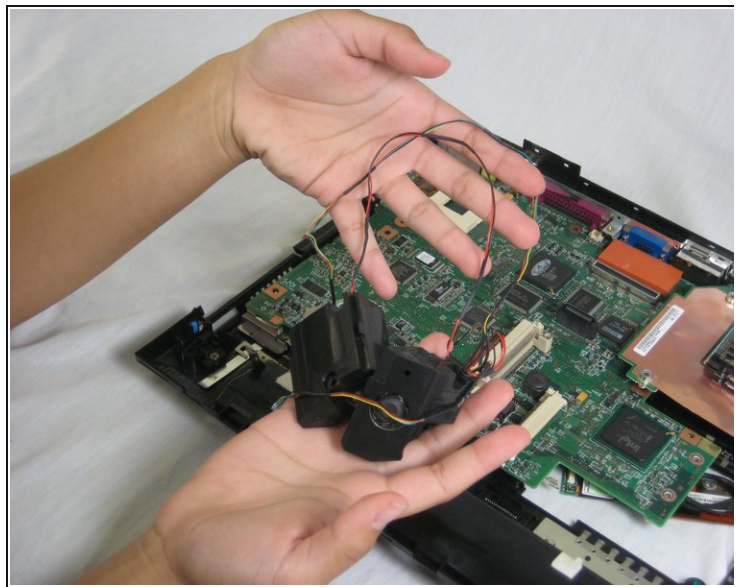
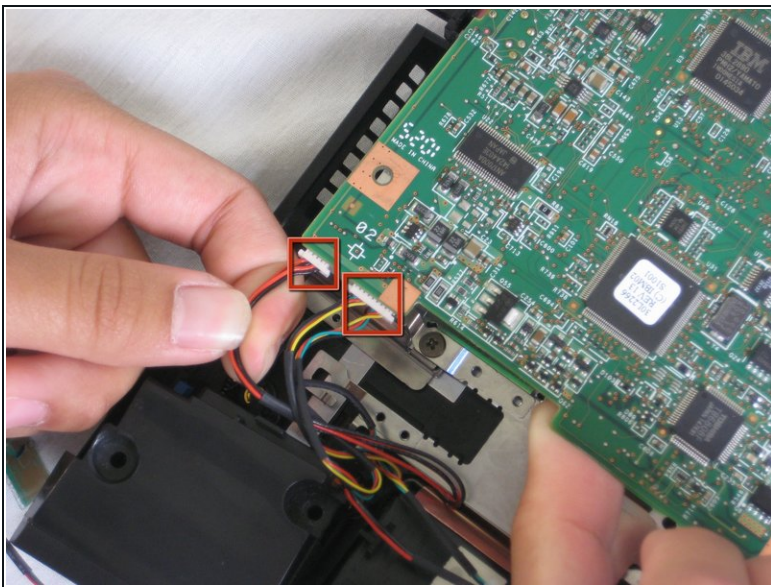
- Remove the wires from the white tabs by lifting the black wire casing.

Step 27



- Lift the left speaker out.
- Pull the blue tab that holds the speaker chip and pull the chip out.

Step 28



- Remove the speaker data and power cables by pulling them from the motherboard.
- You have successfully removed the ThinkPad A30 speakers.

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