



## Disassembling IBM ThinkPad A30 Speakers

### Tools used in this guide

- [Phillips #00 Screwdriver](#) (1)

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



## Step 1 - Battery

- Place the ThinkPad on its back.
- Slide the highlighted tab to the left.
- With your finger on the tab, remove the battery by lifting it outwards.



## 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

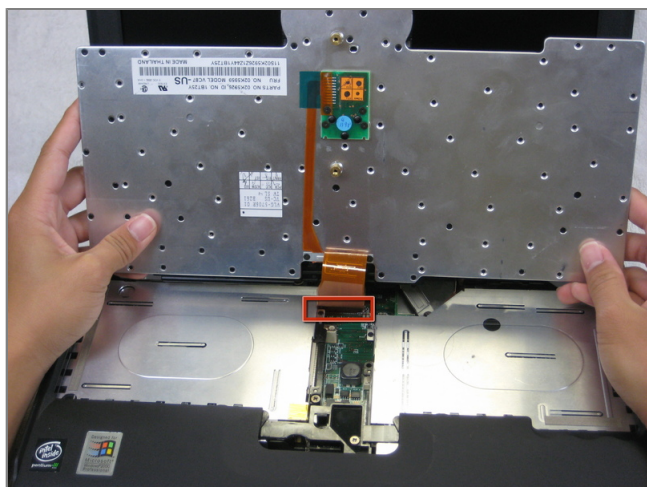
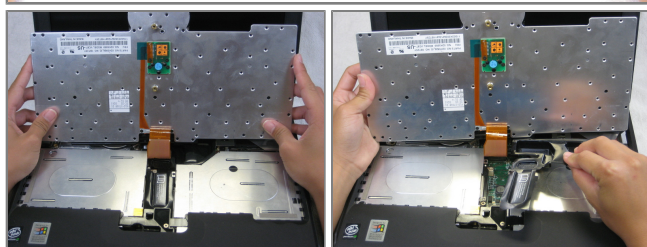
- Flip the ThinkPad over and open the LCD panel.
- Pry apart the keyboard with a plastic opening tool or with your fingers.





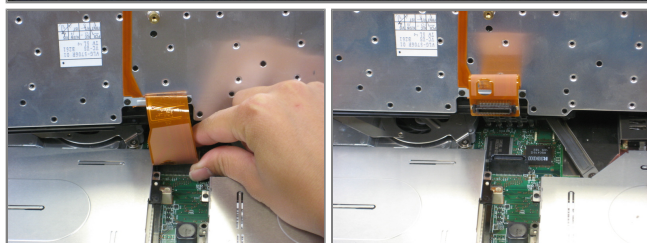
## Step 5

- 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.

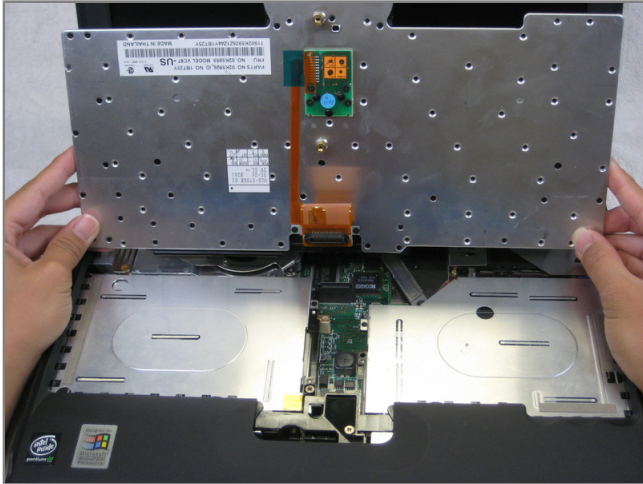


## Step 6

- 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

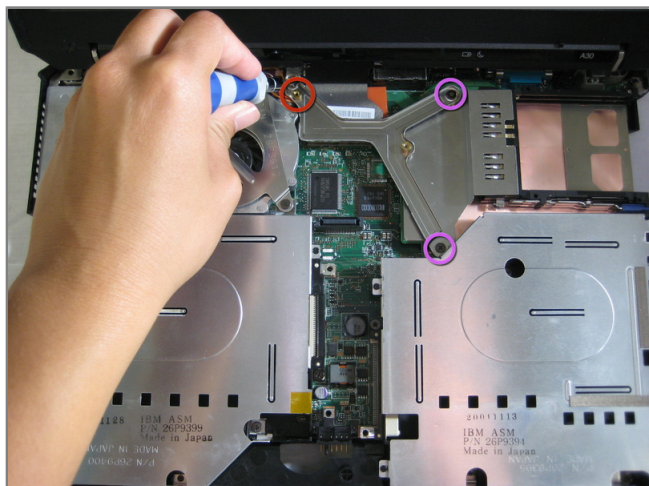
- You will need to use a little force. Be wary of the tabs.
- Pry off the upper case with your hands.





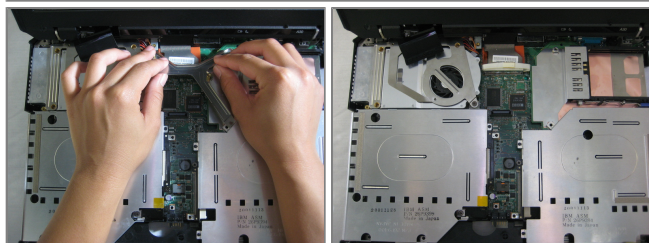
## Step 9 - Display Assembly

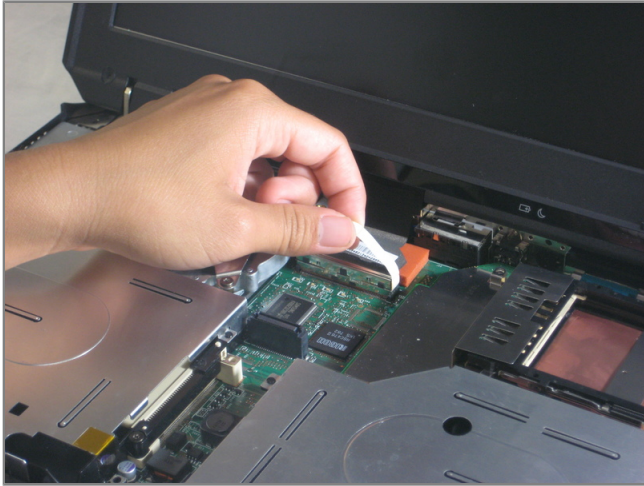
- Remove the 5.6mm screw that holds the LCD to the upper case.



## Step 10

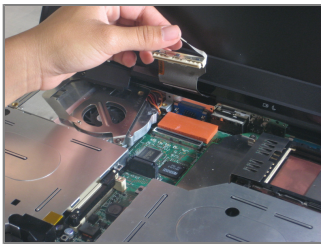
- Remove the 5.6mm screw on the left side of the three-pronged connector.
- Remove the other two 16.7mm screws.
- Lift and remove connector.





## 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.

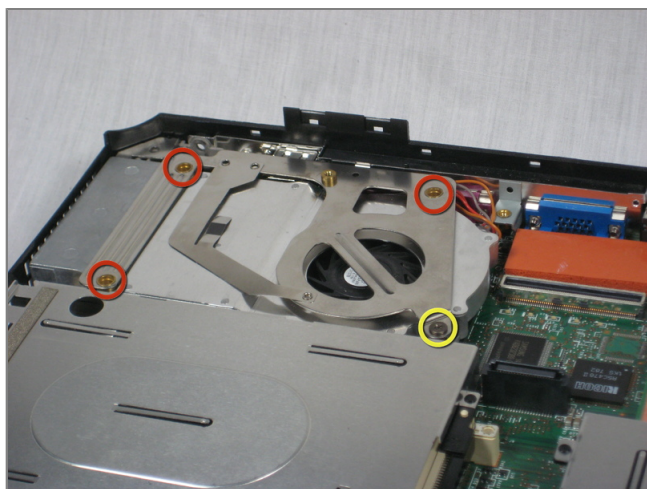
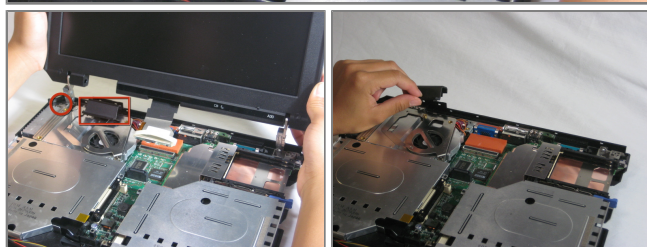






### Step 13

- 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 - CPU Fan

- Locate the 4 screws that will need to be removed.
- One screw (yellow) is observable. The three other screws (red) are below the heatsink bracket.
- Remove the 5.6mm (yellow) and three 16.1mm (red) screws.

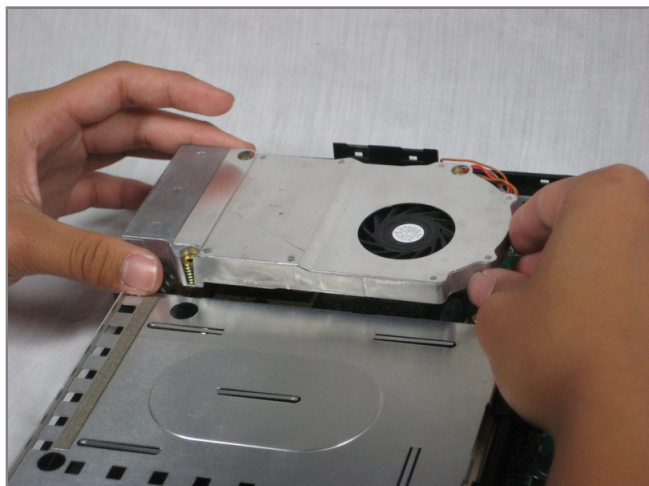






### Step 15

- Lift the heatsink bracket up.

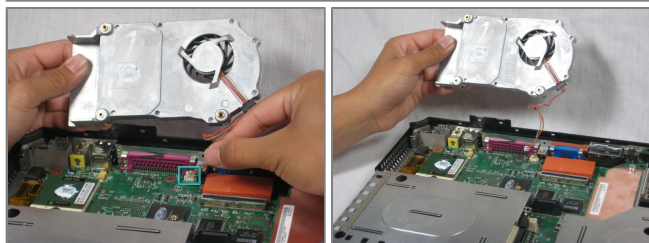


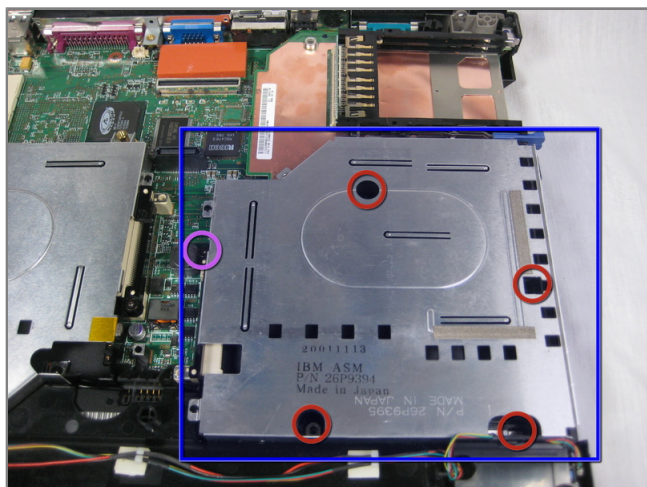
### Step 16

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



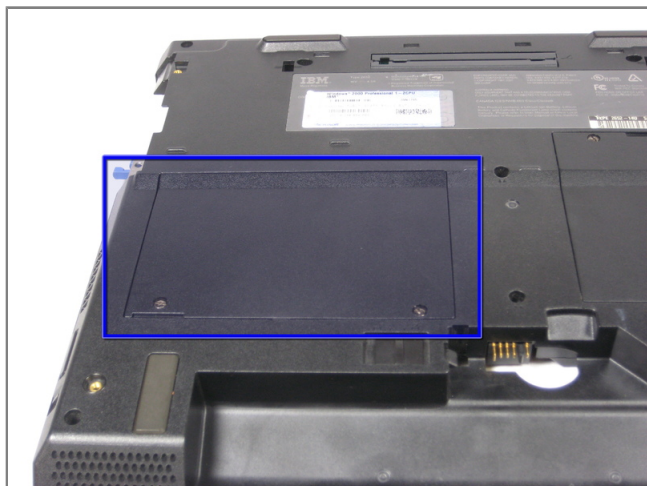
- Lift the fan/heatsink assembly up.
- Locate the fan power cable and pull upwards near the connector.
- Remove the fan/heatsink assembly.





### Step 17 - Speakers

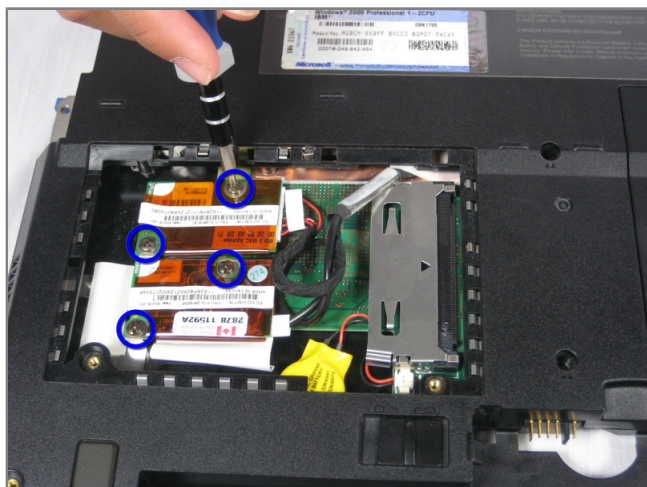
- Locate the floppy drive bay.
- Remove the four 5.6mm screws.
- Remove the 16mm screw.



### Step 18

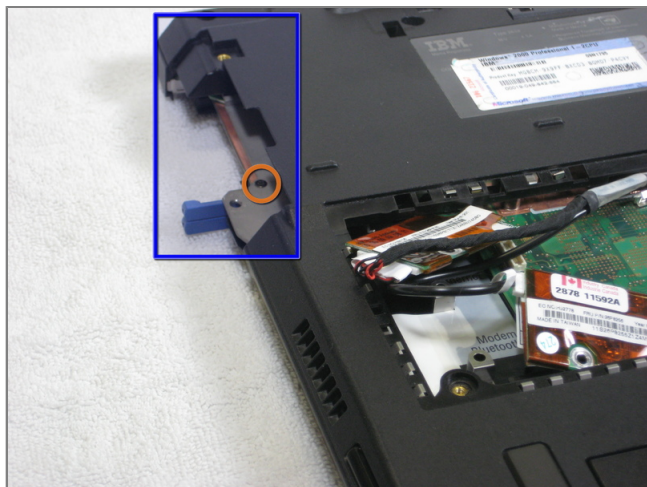
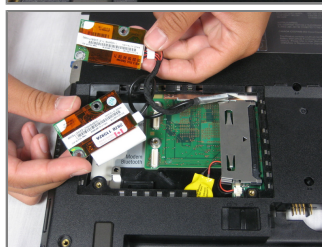
- Turn the laptop over so the battery is facing you.
- Locate the modem and ethernet card bay.
- Remove the two 5.3mm cover screws.
- Gently lift the cover.





### 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

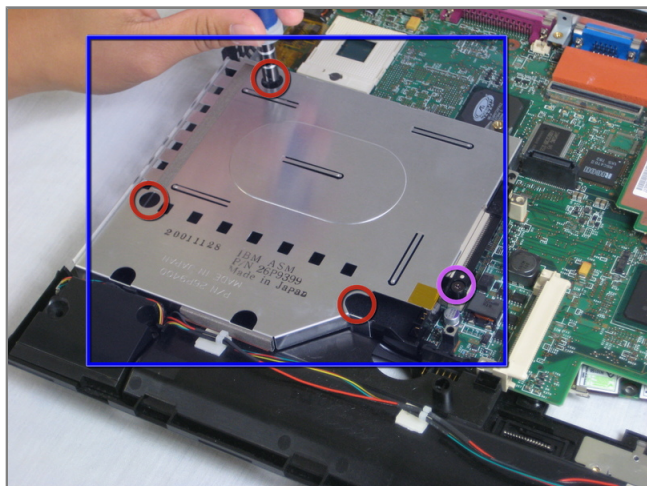
- Locate the hard drive slot.
- Remove the 8.8mm screw with a Phillips #0 screwdriver.





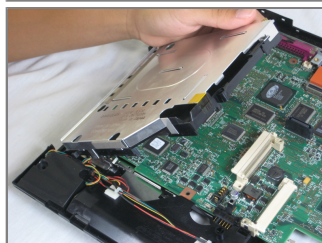
## Step 21

- 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.







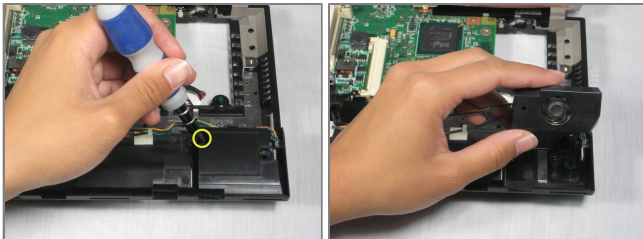
### Step 23

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



### Step 24

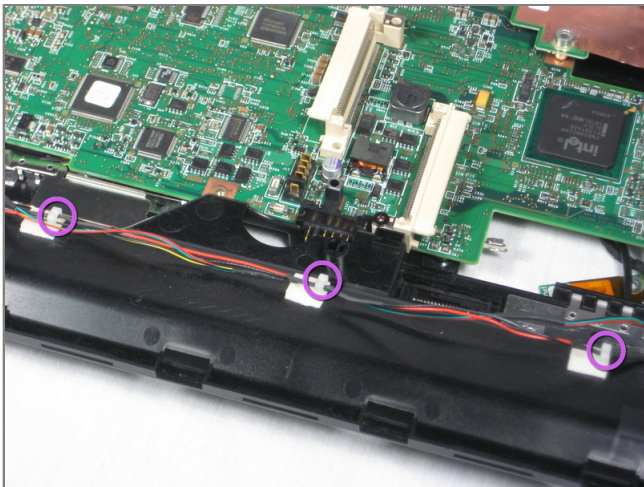
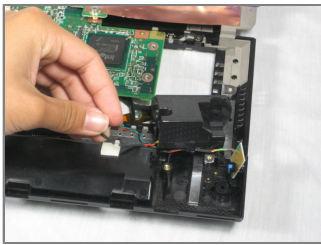
- Remove the 5.6mm screws on each speaker.
- Pull the right speaker out, making sure there is still slack in the wire.





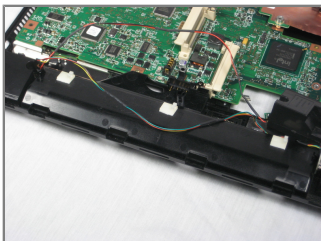
### Step 25

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



### Step 26

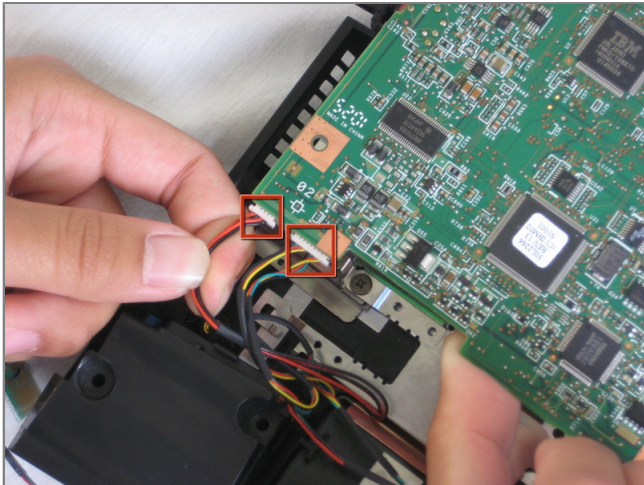
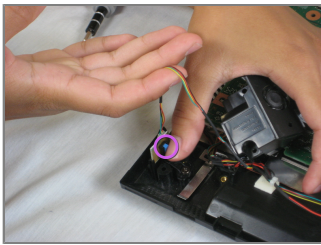
- Remove the wires from the white tabs by lifting the black wire casing.





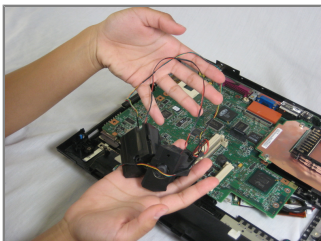
### Step 27

- 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.

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