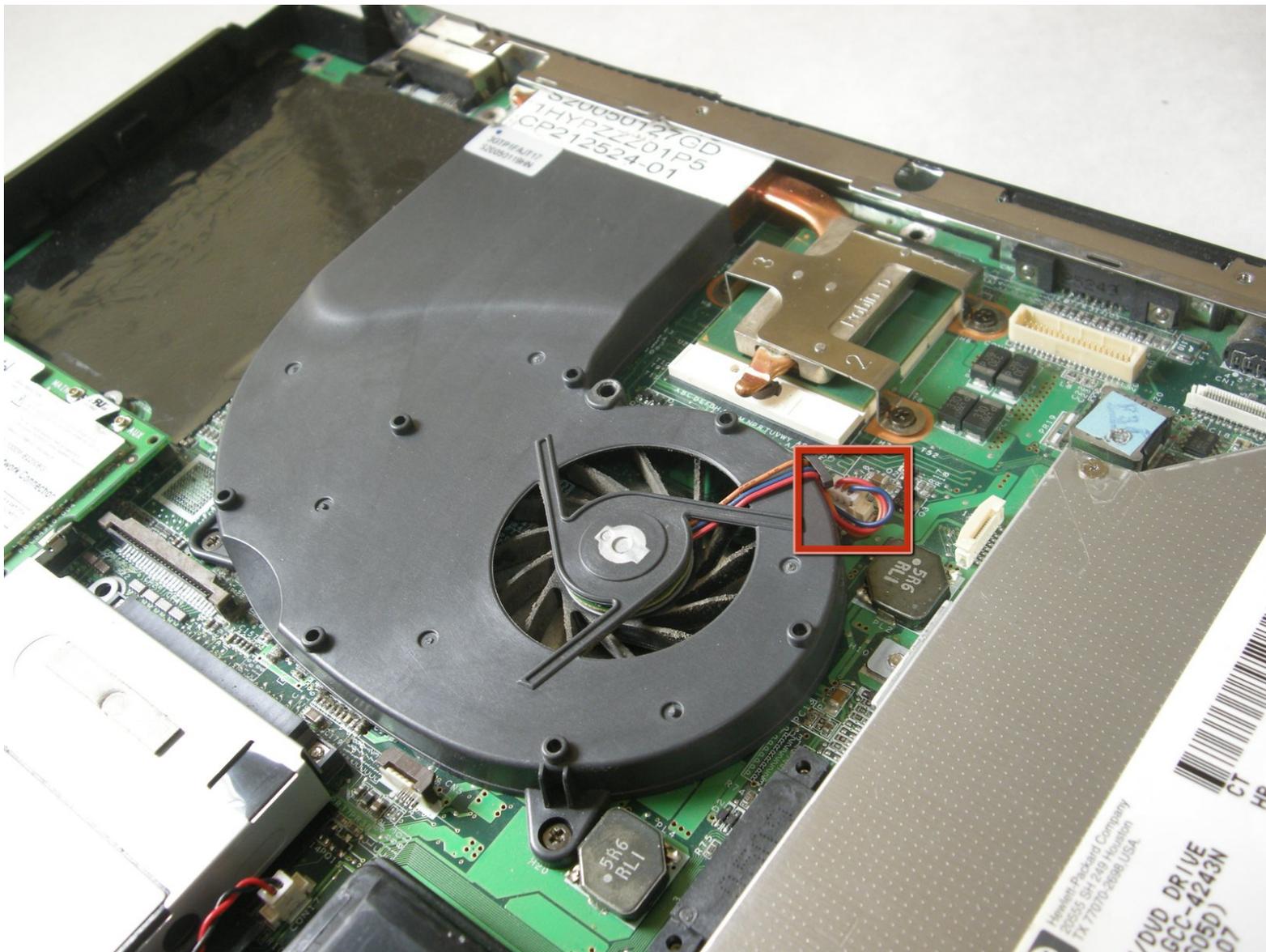




# Fujitsu LifeBook N3510 Fan Replacement

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 **TOOLS:**

- [Spudger](#) (1)
  - [Phillips #0 Screwdriver](#) (1)
  - [Phillips #1 Screwdriver](#) (1)
  - [Magnetic Project Mat](#) (1)
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## Step 1 — Battery



- Locate the two clips on the bottom of the computer that support the battery.

## Step 2



- Using your fingers, push the clips inward and then upward.
- Lift the battery out of the computer.

### Step 3 — Hinge Cover



- Use a spudger to lift the back of the hinge cover on the left and right sides of the computer.

### Step 4



- Lay the computer flat on a stable surface with the monitor pointing away from you.

## Step 5



- Use a spudger to partially lift the hinge cover.

## Step 6



**⚠** The hinge cover has a ribbon cable that is attached to the motherboard. To prevent damage, lift the hinge cover slowly.

- Lift the hinge cover enough to expose the ribbon cable.

## Step 7



- Disconnect the ribbon cable from the motherboard and remove the hinge cover from the computer.

## Step 8 — Keyboard



 The keyboard has a ribbon cable that is attached to the motherboard. To prevent damage, lift keyboard slowly.

- Lift the keyboard enough to expose the ribbon cable.

## Step 9



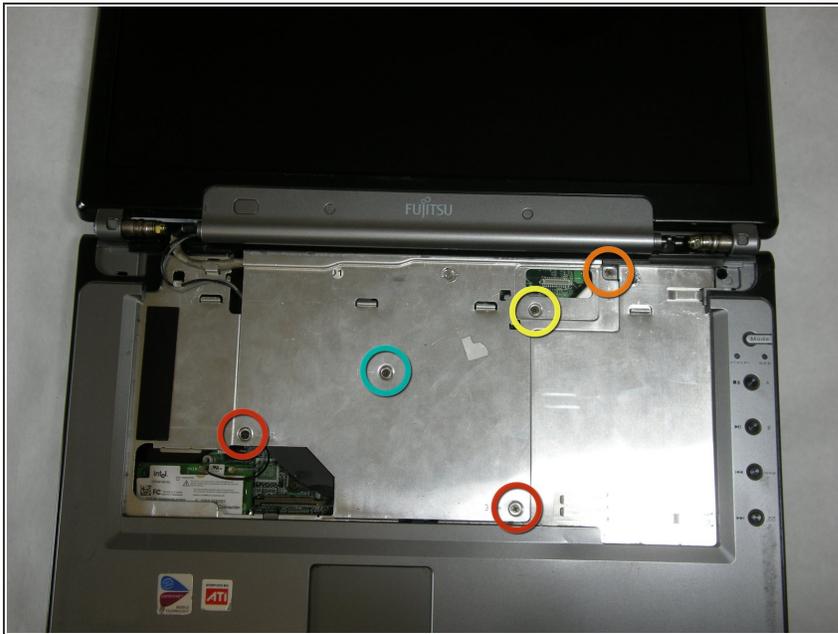
- Use a spudger to release the ribbon cable from the motherboard.

## Step 10



- After the ribbon has been detached, carefully remove the keyboard.

## Step 11 — Metal Motherboard Cover



- Remove the following screws, all labeled "3."
  - Two 8.63mm screws.
  - One 7.65mm screw.
  - One 5.74mm screw.
- Remove the following screw, labeled "15."
  - One 17.81mm screw.

## Step 12



- Lift the cover with fingers and remove.

## Step 13 — Fan



- Detach fan cable from motherboard.

## Step 14



- Remove labeled screws.

## Step 15



- Remove fan.

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