



# Gateway NV53A24u Fan Replacement

Replacing a malfunctioning or broken fan.

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## INTRODUCTION

Replacing the fan will require removal of other parts such as the motherboard, keyboard and the shroud surrounding the keyboard in order to gain access to the fan.

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### TOOLS:

- [Spudger](#) (1)
  - [iFixit Opening Tools](#) (1)
  - [64 Bit Driver Kit](#) (1)
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## Step 1 — Fan



- Locate the top of the keyboard, then insert a spudger into the top most edge of the keyboard where it meets the bezel surrounding it.

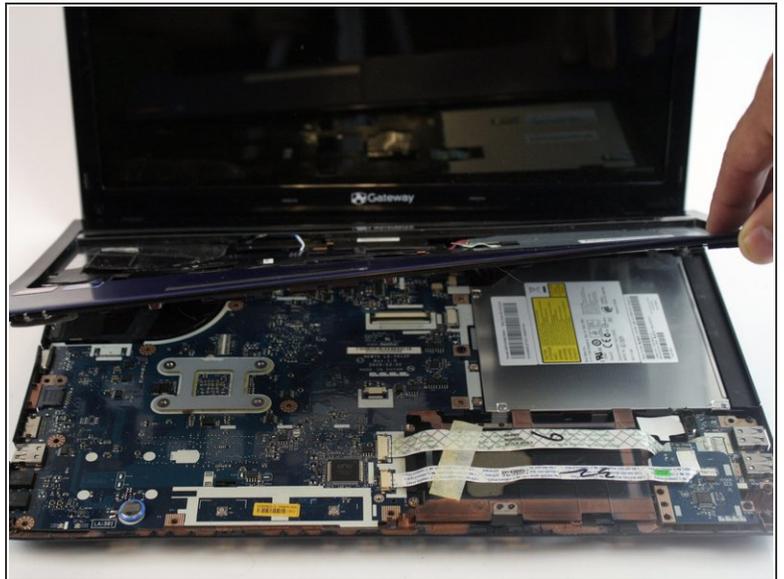
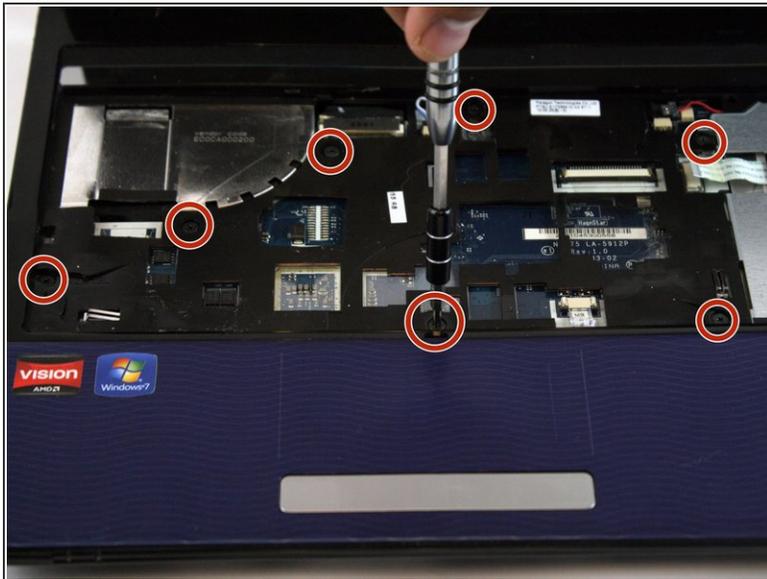
**⚠** When working with electronics, it's important to choose a tool that's ESD-safe to avoid accidental damage to the device. The metal spudger is great when you need serious prying power, but a regular black nylon spudger should be used whenever possible.

## Step 2



- Using the spudger, lift the keyboard from its base to expose the underside components.

### Step 3



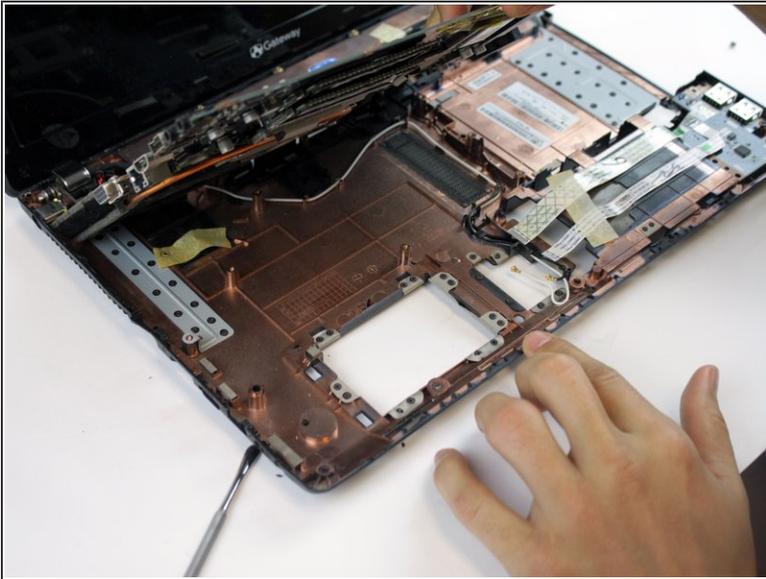
- Using a #4 phillips screwdriver, remove all six 2.3mm screws from the plastic shroud.
- Then, lift off the shroud to reveal the motherboard beneath.

### Step 4



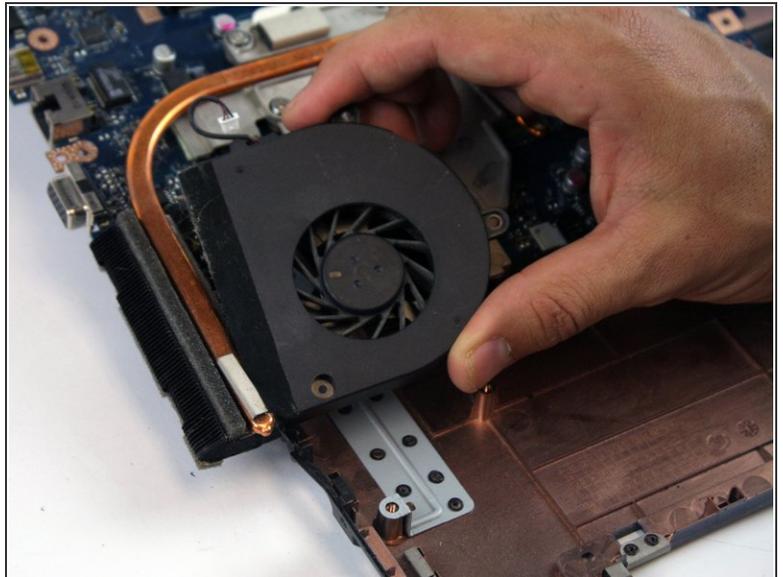
- The motherboard is now readily accessible to be removed.
- Using a spudger, gently pry the ports away from their side port containers to easily remove it.

## Step 5



- Lift the motherboard up and flip it on its back.
- With the motherboard flipped, the fan is almost ready to be removed.

## Step 6



- Locate the fan and its copper heat pipe running just behind it.
- Remove the fan from the heat pipe using slight force as it is held to the pipe with an adhesive tape.

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