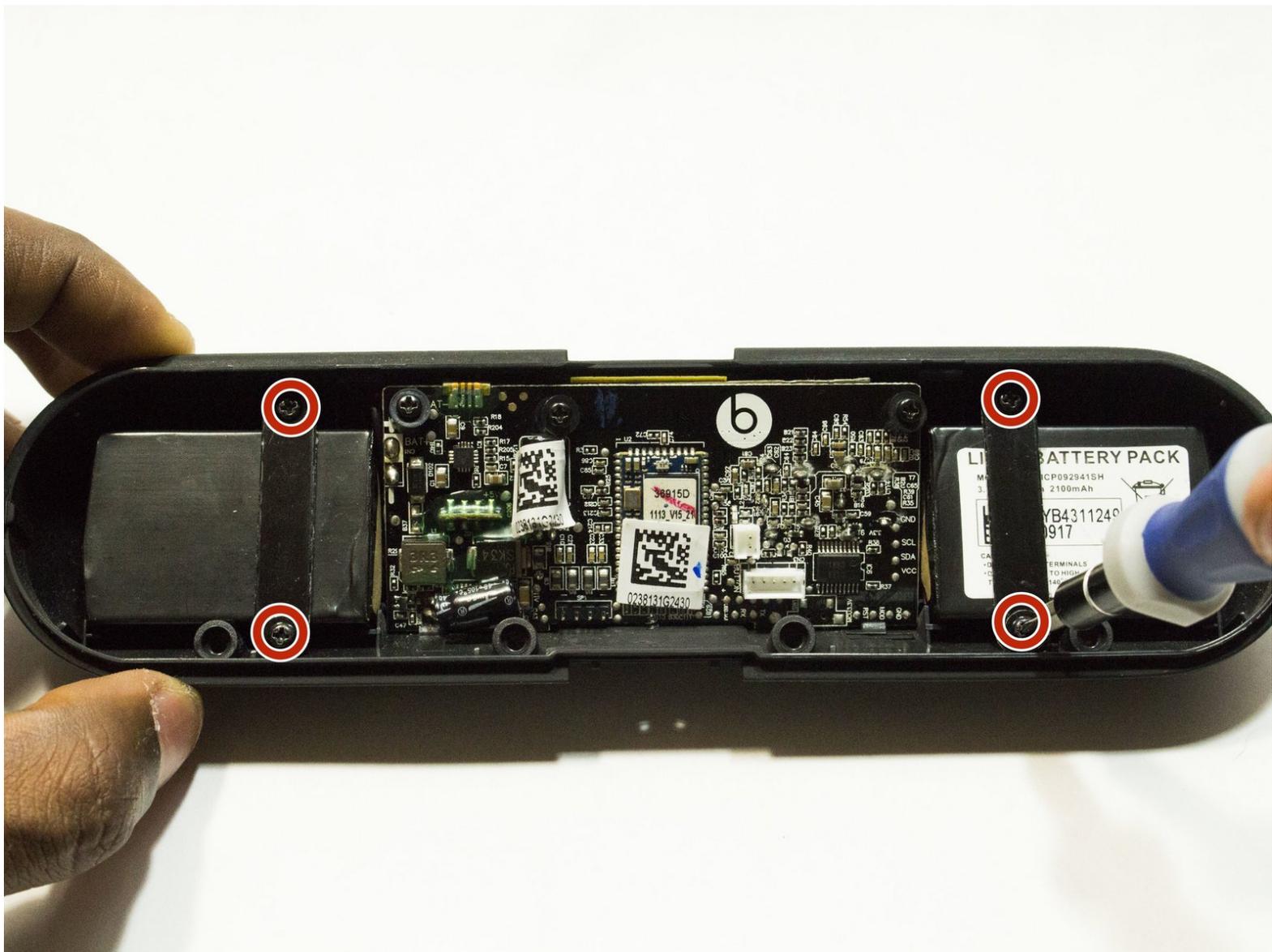




# Beats Pill 1.0 Motherboard Replacement

This guide explains how to replace the motherboard, which is needed when the CPU no longer works. Stripping and soldering wires are necessary.

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## INTRODUCTION

If the power on your Beats Pill 1.0 won't turn on or if it is unable to connect to other devices--either through bluetooth or through audio jack--employ this process to replace the motherboard. Before using this guide, double check the [troubleshooting page](#). For instance, you may need only to plug in the charging cable or connect using a different audio cord.

The motherboard is the main circuit of the device, meaning some special skills are needed in order to transpose it. [Step 5](#) requires [wire stripping](#). From there, you will need to [solder](#) the battery to the new motherboard as part of [Step 6](#).

Remember to disconnect your Beats Pill 1.0 from a power source and to turn off the device before beginning the replacement process.

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### TOOLS:

- [Phillips #00 Screwdriver](#) (1)
  - [Phillips #0 Screwdriver](#) (1)
  - [Tweezers](#) (1)
  - [Wire Stripper](#) (1)
  - [Soldering Workstation](#) (1)
  - [Spudger](#) (1)
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## Step 1 — Removing the Case Screws



- Using the spudger, create space between the speaker covers and then remove.
- On the underside of the device, remove the rubber stand with the BeatsPill logo on it.
- Using an ESD-safe Phillips #0 screwdriver, remove the four screws that were underneath the rubber stand.

## Step 2 — Removing Center Cover



- Remove the two screws with a Phillips #0 screwdriver.
- Slowly remove the center band and two clip rings until the adhesive separates. Set to the side the clip rings and the center band

### Step 3 — Separate the Device



- Use the spudger to pry the device apart along its seam, starting in the middle.
- Open the device to separate the front and back panels.

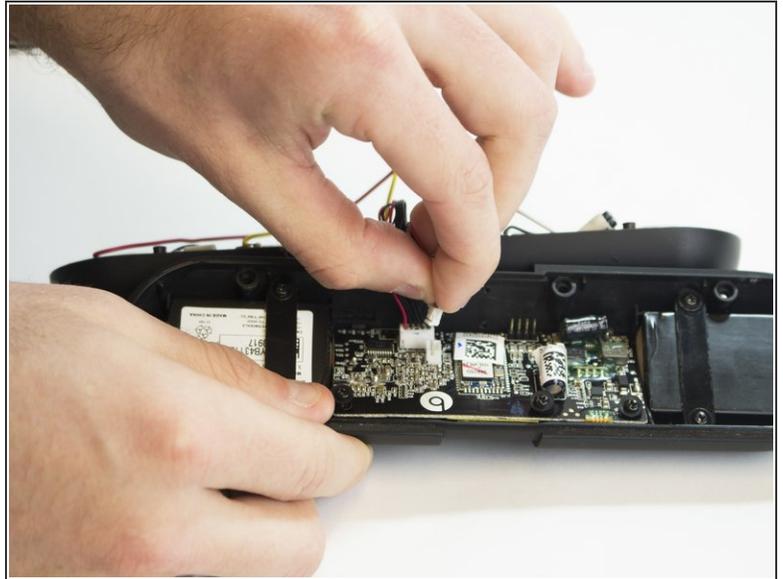
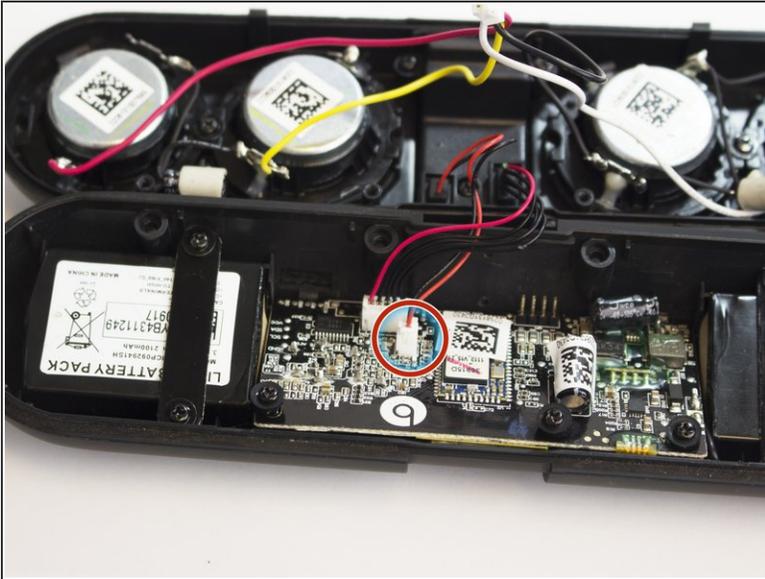
### Step 4 — Disconnect Speaker Wiring



- Carefully remove the yellow, red, black, and white wires from the motherboard.

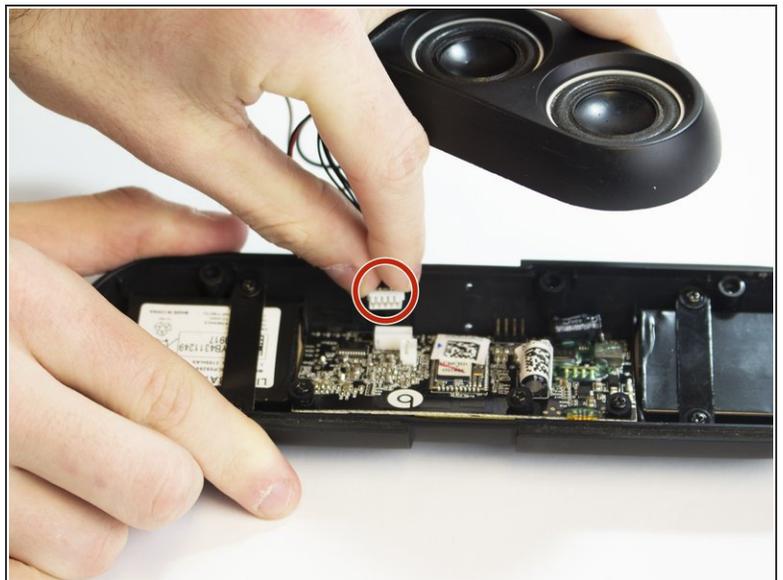
**⚠ Ground yourself when touching the motherboard.**

## Step 5 — Disconnect NFC Sensor Wiring



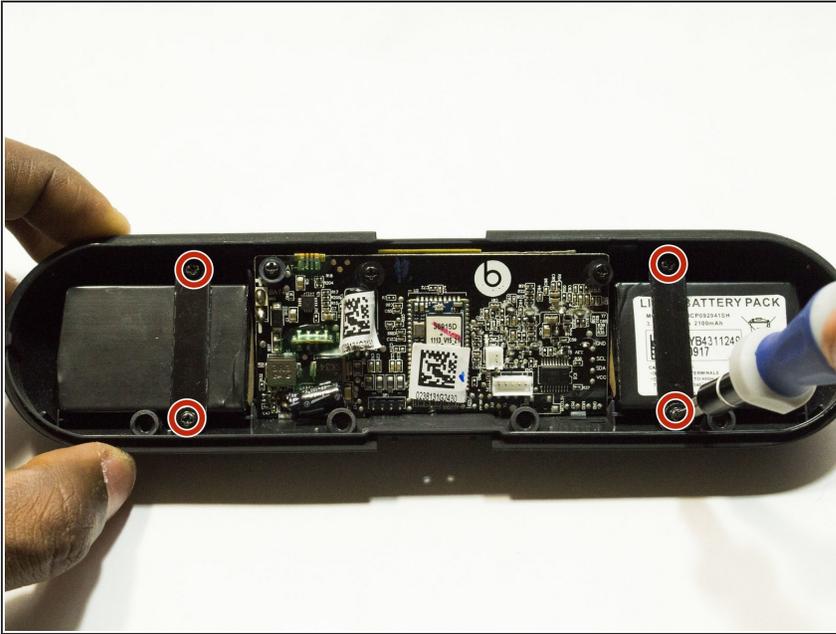
- Carefully remove the black and red NFC sensor wires.

## Step 6 — Disconnect Control Wiring



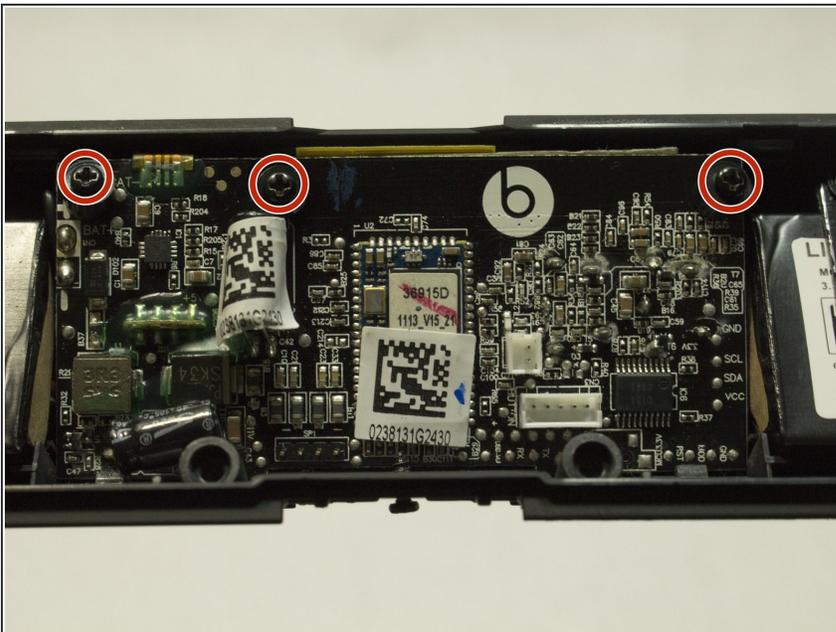
- Carefully remove the control cables (4 black, 1 red).

## Step 7 — Motherboard



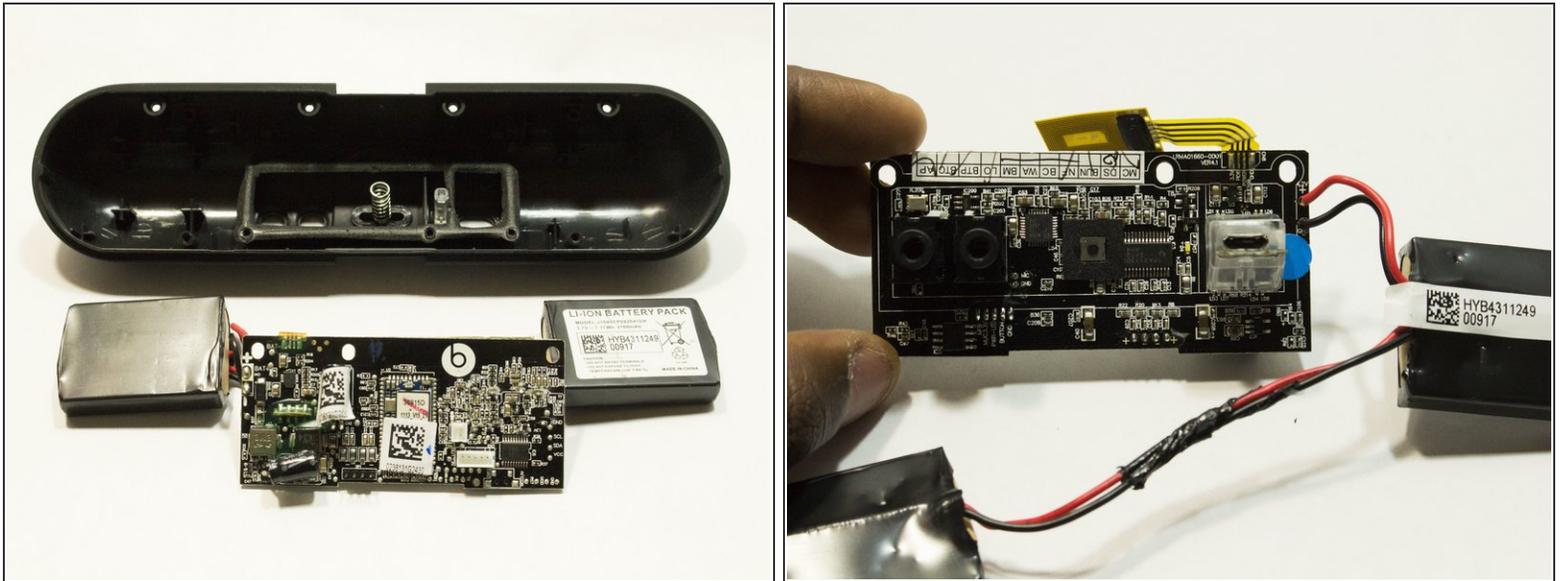
- Remove the four 6 mm screws holding the band in place using a Phillips #0 screwdriver.

## Step 8



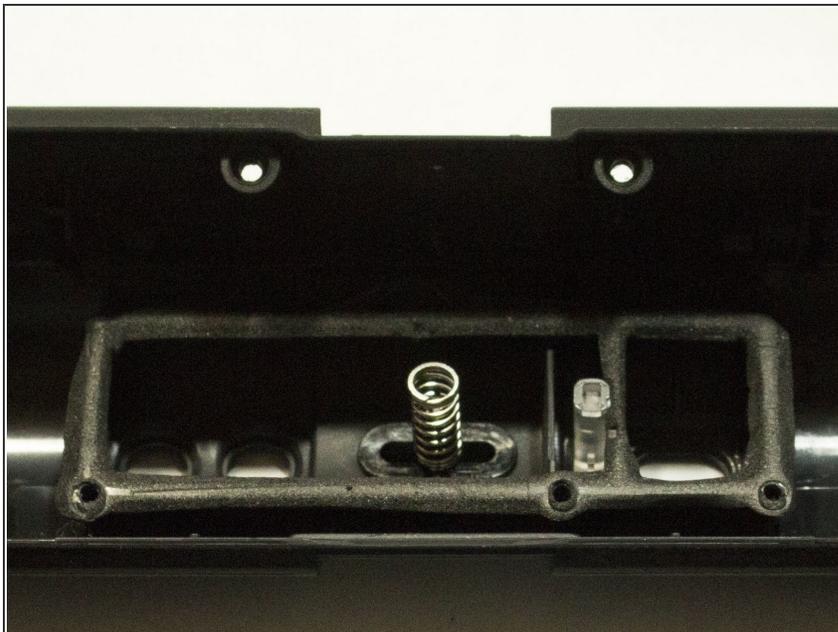
- Remove the three 9 mm screws from motherboard and rubber stopper using a Phillips #0 screwdriver.

## Step 9



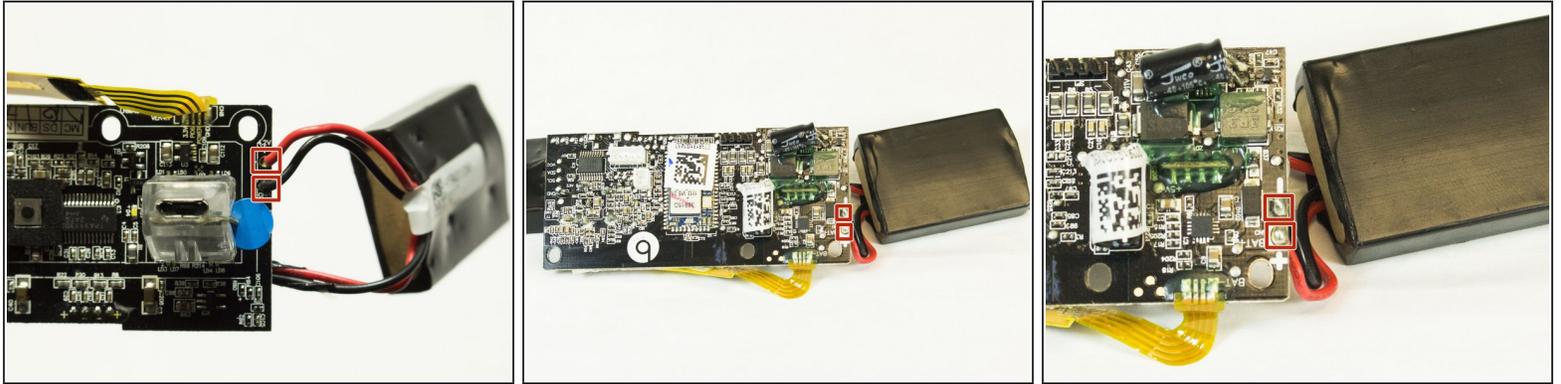
- Remove the motherboard from the tabs and gently lift it out of the case.
- Remove the yellow NFC module that is attached to the motherboard from the plastic casing with tweezers.

## Step 10



- Remove the power button and springs.

## Step 11



- Using a wire stripper, cut the red and black wires attached to the motherboard.

## Step 12



- Using a soldering iron, attach the battery to the new motherboard with the red wire connecting to the 0.2 volts (+) and black wire connecting to the ground (-).

 Please refer to our [soldering guide](#) for more information.

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