



# Beats Solo 2 Wireless Teardown

Hi, In this teardown we're going to have a look at what's inside this 300\$ pair of headphones. This teardown will show you: the internal electronics, battery replacement and the identification of the IC's that were used.

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 **TOOLS:**

- Putty knife (1)
- Plastic Cards (1)
- Phillips #00 Screwdriver (1)
- Heavy-Duty Spudger (1)

## Step 1 — Let's get started



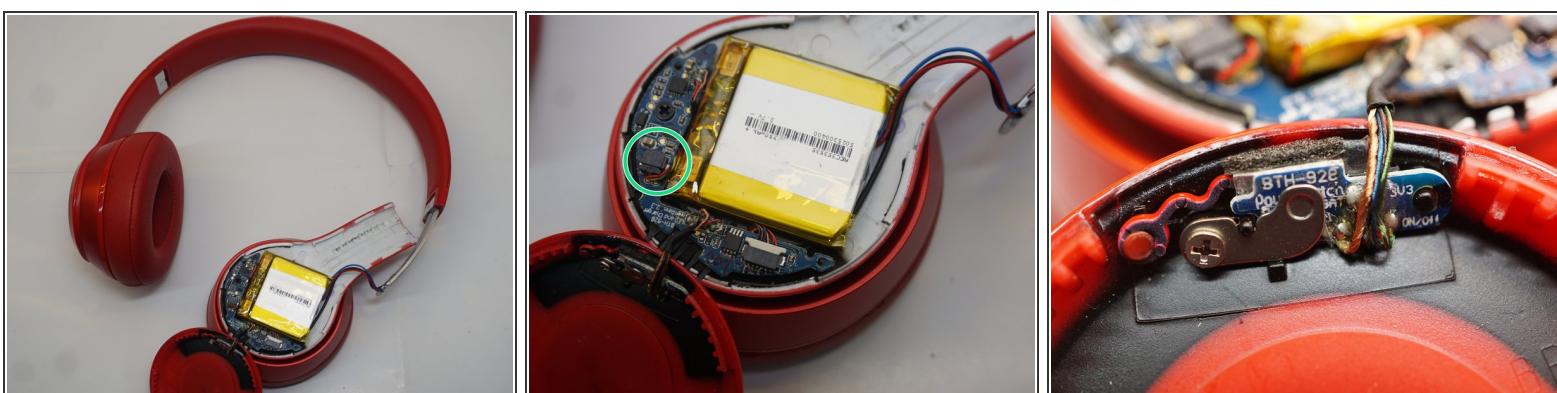
- You will need the following tools:
- A pry tool or a knife blade
- A PH00 screwdriver

## Step 2 — Let's open it up



- Insert your knife blade or pry tool in the centre of the seam
- Follow the seam. You should hear a snap sound of the clips loosening up.

## Step 3 — And we are in!



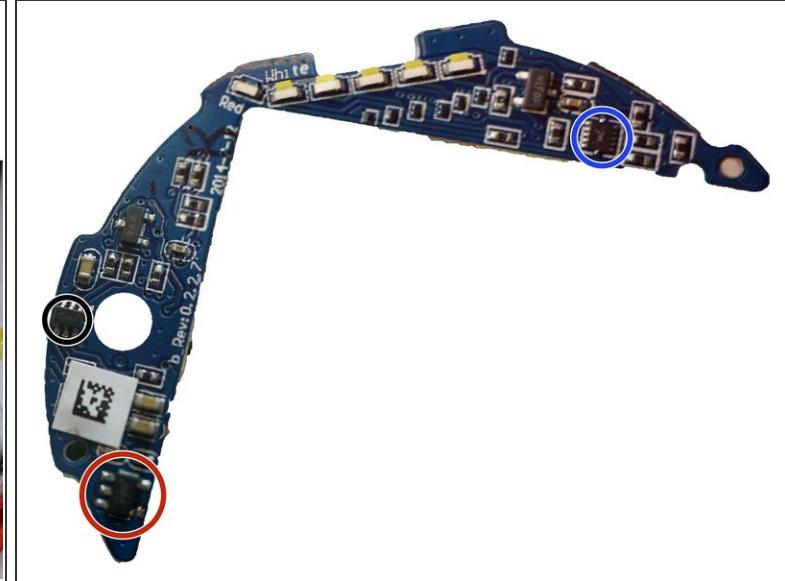
- Disconnect the battery before continuing
- **Watch out for the On/Off button!**

## Step 4 — Take the battery out



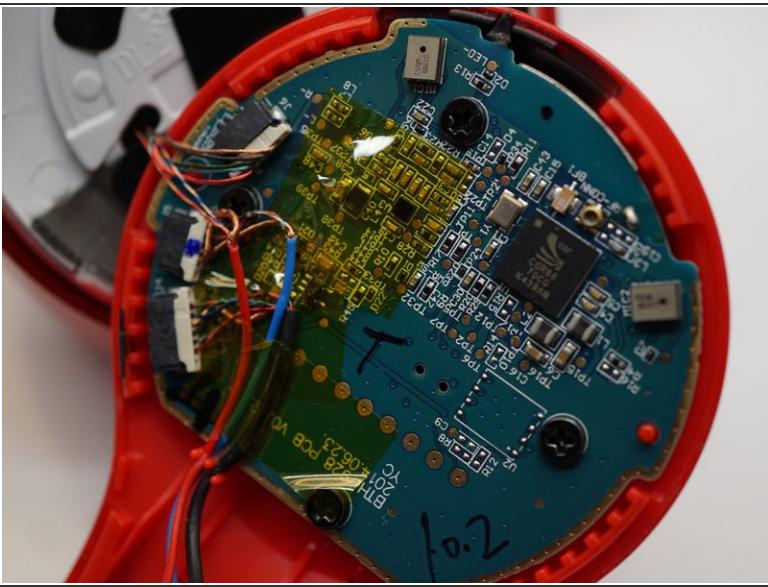
- You can take the battery out by using a plastic card such as a credit card

## Step 5 — PCB time (L)



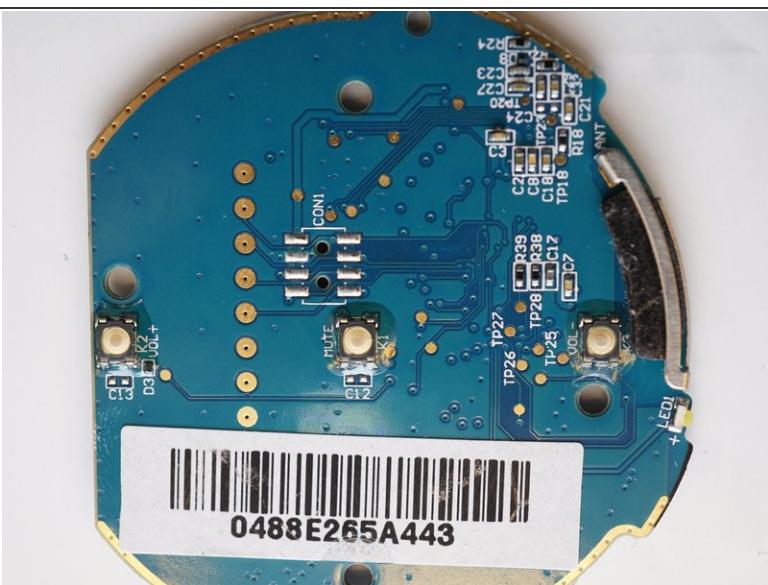
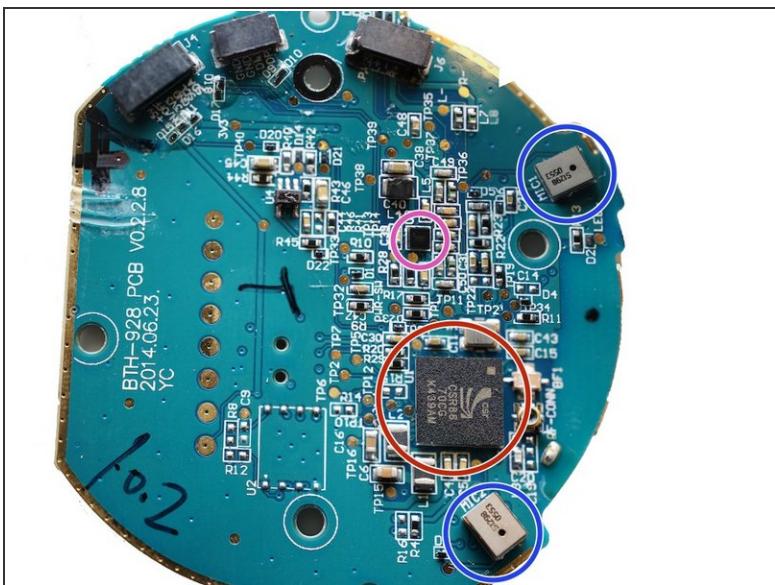
- PCA9536: s I/O Expander
- BQ2407:y Li-Ion Battery Charger and Power-Path Management IC
- BQ27425: Battery Fuel Gauge
- TCA6507: 7-Bit I 2C and SMBus LED Driver
- TPS782: Ultra-Low Quiescent Current Low-Dropout Linear Regulator
- DMMT3904W: Matched Pair NPN Small Signal Transistor

## Step 6 — Open the Right side



- This is the place where the wireless magic happens.

## Step 7 — PCB time (R)



- CSR8670: Audio System-On-Chip (SoC)
- 2 Microphones
- AMS AS3561 Class-H Stereo Headphone Amplifier

## Step 8 — Conclusion



- The Solo 2 wireless uses a lot of TI parts. That means that you can find replacement IC's
- The battery can be easily replaced, and it's not soldered in.