



# TECHUP Bluetooth Speaker Motherboard Replacement

This guide will cover the replacement of the...

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# INTRODUCTION

This guide will cover the replacement of the motherboard in a TECHUP Bluetooth speaker; model No. AR456.

If your TECHUP Bluetooth speaker has recently lost functionality, it is likely the motherboard is at fault. This guide will take you through how to replace the motherboard step-by-step. This process will involve disconnecting the internal battery, and although this device runs on low-power, there is a shock hazard anytime you are working with open wires from a battery. Take care when soldering/desoldering the battery wires.

If you do not know how to solder, you may use [this guide](#).

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## TOOLS:

Soldering Iron 60w Hakko 503F (1)

Phillips #0 Screwdriver (1)

Spudger (1)

Desoldering Braid (1)

Desoldering Pump (1)

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## Step 1 — Motherboard



- Pry the foam buffer from the speaker using a nylon spudger or flathead screwdriver (pictured).
- ❗ You will need to re-apply adhesive if you want to reattach this foam after removing it.

## Step 2



- Remove the two bottom screws using a Phillips #0 screwdriver.

## Step 3

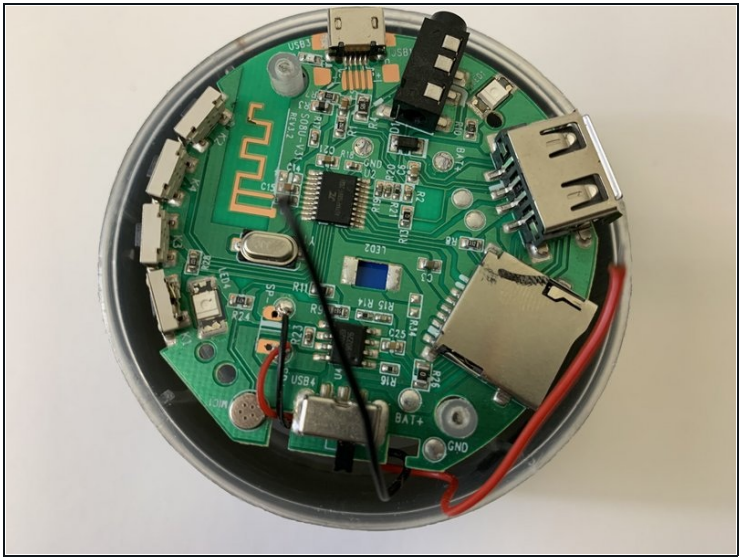
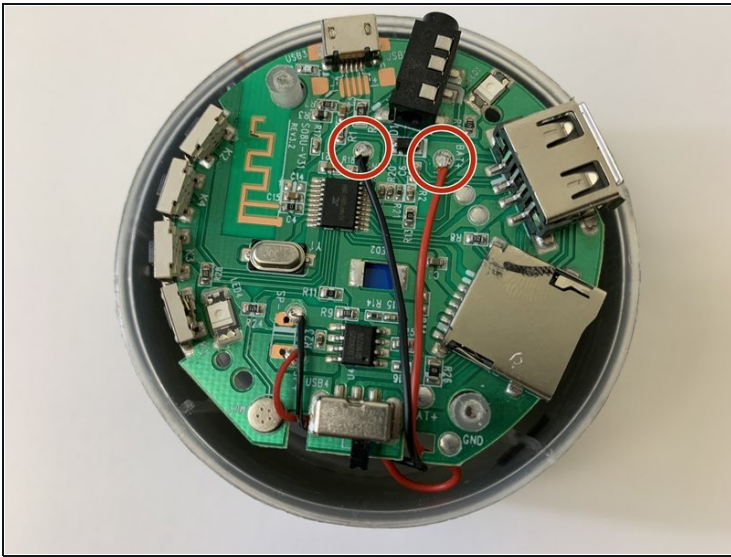


- Pull the plastic casing away from the speaker.

① You may have to twist-and-pull to remove it.



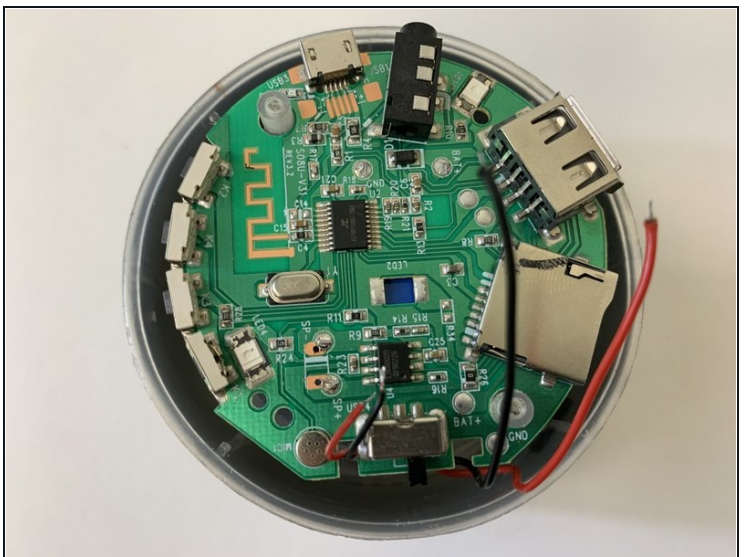
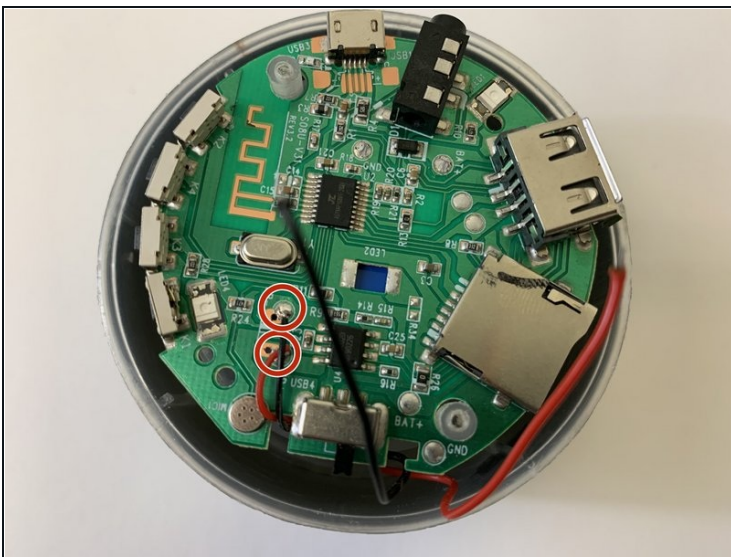
## Step 4



- Desolder the two battery wires from the motherboard.

⚠ Because you are dealing with battery connections, be aware of the shock hazard.

## Step 5



- Desolder the two speaker wires from the motherboard.

## Step 6



- Grasp the motherboard and pull it from the encasement.
- ⓘ Take care to not rip the wires as you pull the motherboard out, as they may catch in the grooves on the motherboard.

## Step 7



- Pry the battery from the motherboard using a nylon spudger.
- ⓘ You may have to apply significant force to the motherboard to remove the battery.
- ⚠ Always use an ESD-safe tool, such as a nylon spudger, when working with batteries. Metal tools can puncture an unprotected battery, potentially causing a fire.

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