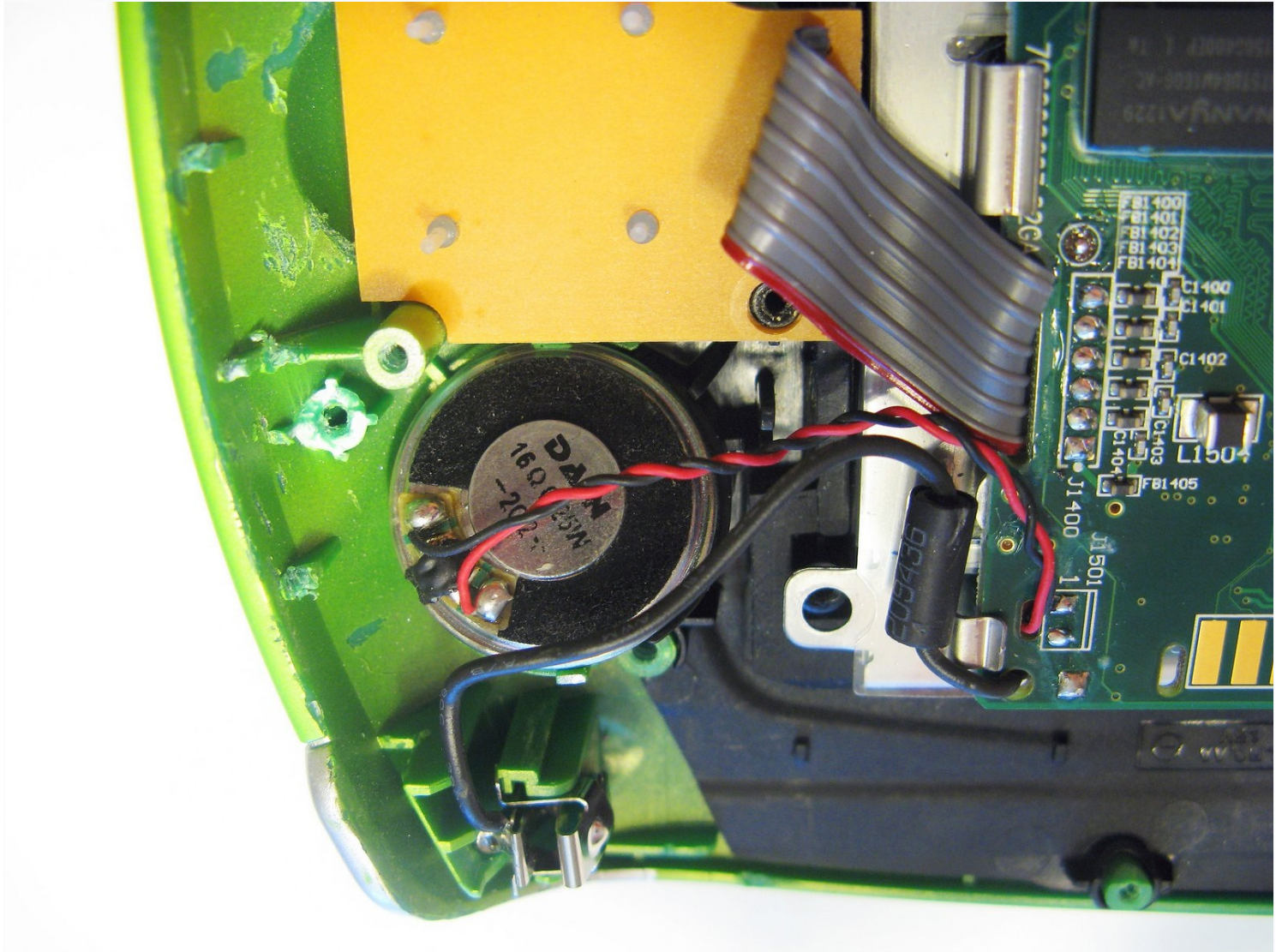




# LeapFrog LeapPad2 Explorer Speaker Replacement

Is your device not making sound? Amplify your...

Written By: Nupur Garg



# INTRODUCTION

Is your device not making sound? Amplify your happiness by replacing the speaker.

This guide will require soldering equipment and skill.

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## TOOLS:

[Phillips #00 Screwdriver](#) (1)

[iFixit Opening Tool](#) (1)

[Safety Glasses](#) (1)

[Soldering Workstation](#) (1)

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## Step 1 — Battery



- Before disassembling your LeapPad, ensure your device is shut off.
- Push outward on the plastic side panels to remove and reveal battery.
- The panels should detach fully from the main device.

## Step 2



- Push down from the positive end of the battery towards the negative end to pry the battery up out of its dispenser.
- Remove all four AA alkaline batteries from the device.

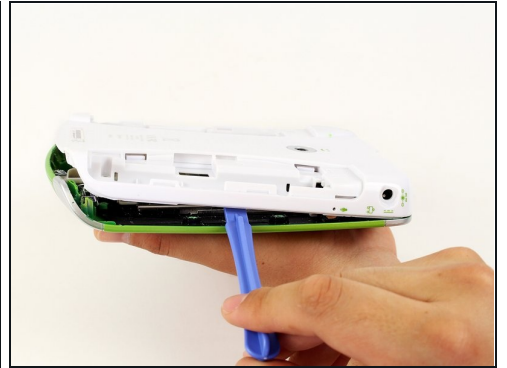
## Step 3 — Back Cover



**⚠ This step will void your device warranty.**

- Remove the following screws securing the back cover to the main device:
  - Two 10.0 mm Phillips screws
  - Four 4.0 mm Phillips screws
  - Three 3.0 mm Phillips screws

## Step 4



- Insert a plastic opening tool into the seam between the front and rear covers to detach the back cover from the rest of the device.
  - Move the plastic opening tool around the perimeter of the LeapPad2.
  - Lift up and remove the rear case from the tablet.
- ① A butter knife can help when prying the device.

## Step 5 — Front Cover



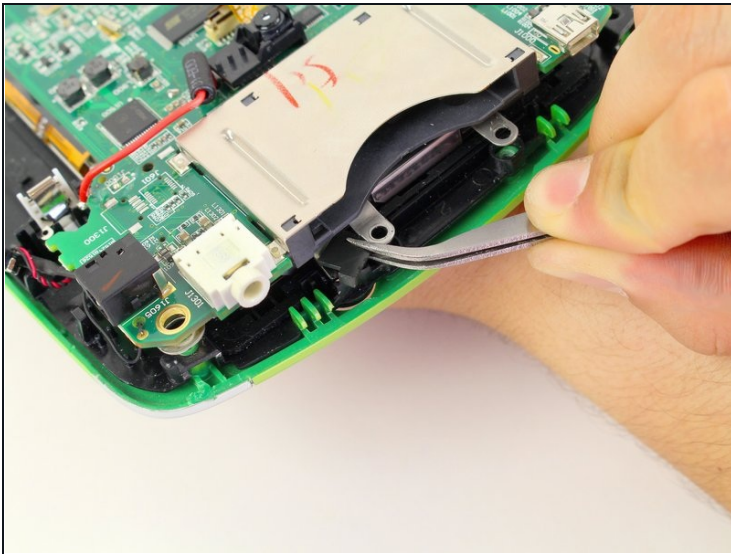
- Remove the following screws securing the front cover to the main device:
  - Three 6.0 mm Phillips screws
  - Three 7.0 mm Phillips screws
  - Two 10.0 mm Phillips screws
  - Three 7.0 mm Phillips screws (bulkier screw head than other 7.0 mm Phillips screws)
- ① The white plastic component holding the speaker must be removed to reach the third 7.0 mm Phillips screw. Refer to Step 2.

## Step 6



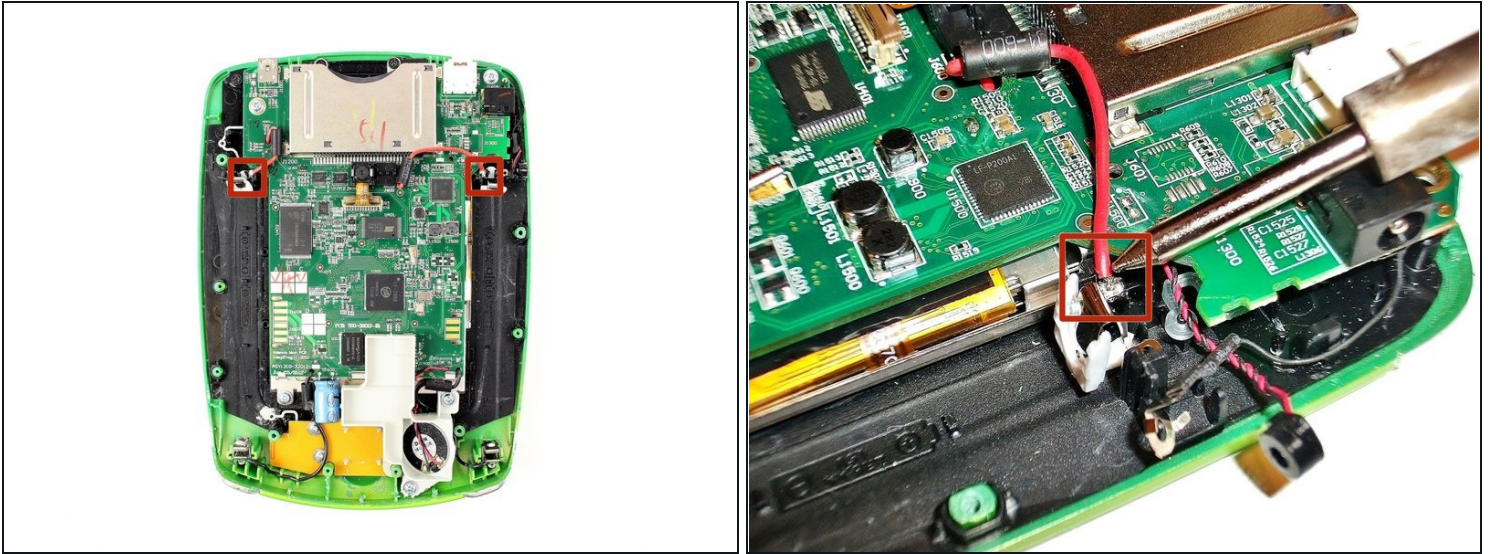
- Unscrew the white plastic piece to expose the third 7.0 mm Phillips screw mentioned.

## Step 7



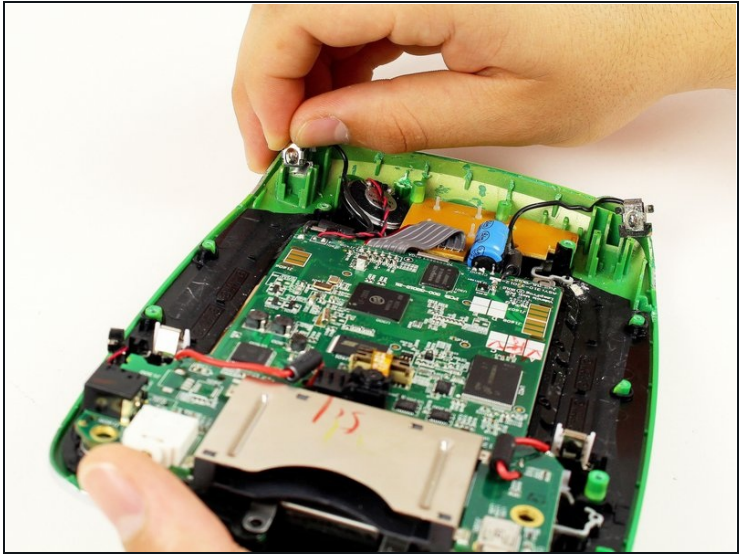
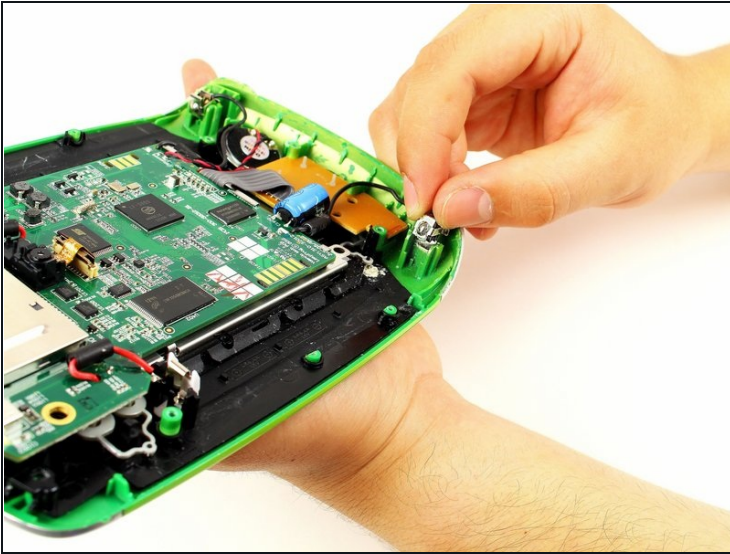
- When unscrewing the game cartridge screws, you will find a loose black plastic component underneath the game cartridge.
  - Use [tweezers](#) to remove the piece.
- ☒ In case the piece falls out unexpectedly, refer to this step to make sure you put this piece back in place during the reassembly of your device.

## Step 8



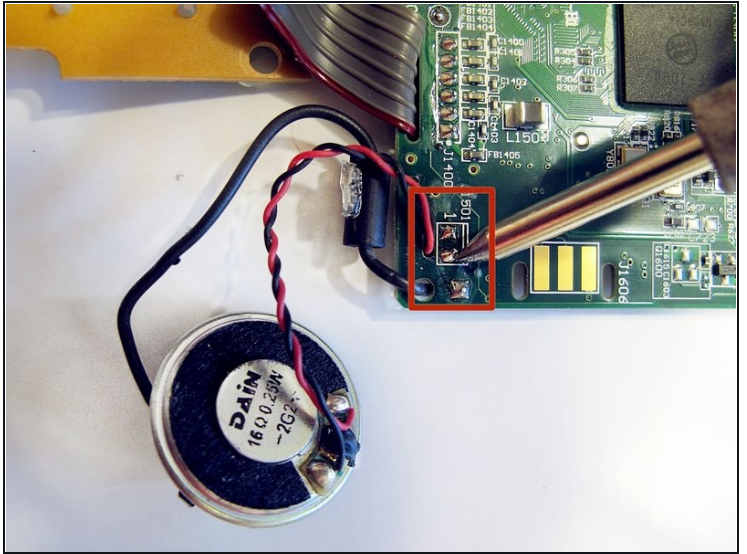
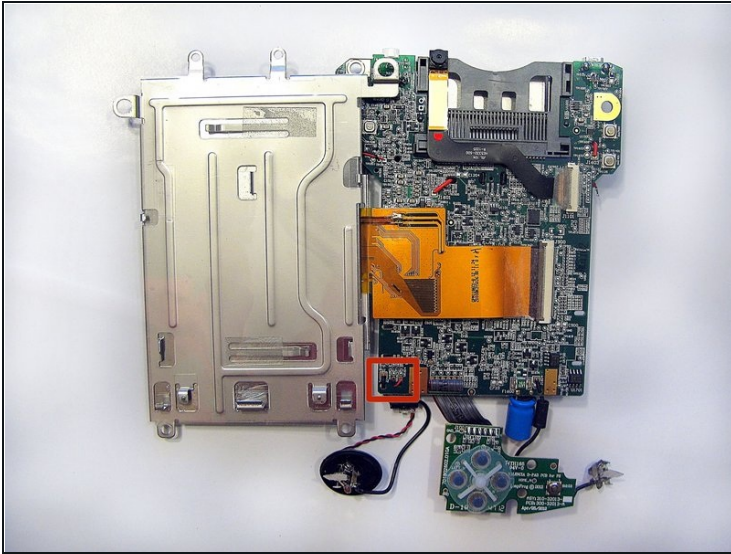
- Desolder the through hole-components in power plugs on both sides of the device where the batteries were once connected.
- ① Do not refer to the pictures in this step for correct soldering and de-soldering techniques. They are solely for illustration purposes.
- ① For proper soldering and desoldering techniques reference [How To Solder and Desolder Connections](#).
- ⚠ Soldering requires the iron to be at hot temperatures and can cause burns. Wear safety glasses as needed.
- ⚠ Be extremely careful with the cables in this step as they could melt, burn, or break.

## Step 9



- Pry the power cables from the device using your fingers or tweezers.
- Now you should be able to lift up the front cover, leaving you with the motherboard and screen.

## Step 10 — Speaker



- Finally, locate and desolder the remaining connections from speaker wires on the circuit.
- Once finished desoldering, flip to the other side of the circuit board to remove the wires.
- ① Reference [How To Solder and Desolder Connections](#) to learn how to solder.

⚠ Soldering requires the iron to be at hot temperatures and can cause burns. Wear safety glasses as needed.

⚠ Be extremely careful with the cables in this step as they could melt, burn, or break.

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