



# HP Spectre x2 12-a002dx Speaker Replacement

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## INTRODUCTION

Many times the speaker(s) on your device can stop functioning properly due to several reasons. This guide shows how to replace the speaker(s) on this device.

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### TOOLS:

- [Metal Spudger](#) (1)
  - [Spudger](#) (1)
  - [iFixit Opening Tools](#) (1)
  - [Heat Gun](#) (1)
  - [Tweezers](#) (1)
  - [Phillips #0 Screwdriver](#) (1)
  - [Phillips #000 Screwdriver](#) (1)
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## Step 1 — Screen



- Make sure the device is powered off and the kick stand is retracted.
- The HP Spectre should be placed on a flat surface with the keyboard detached.

## Step 2



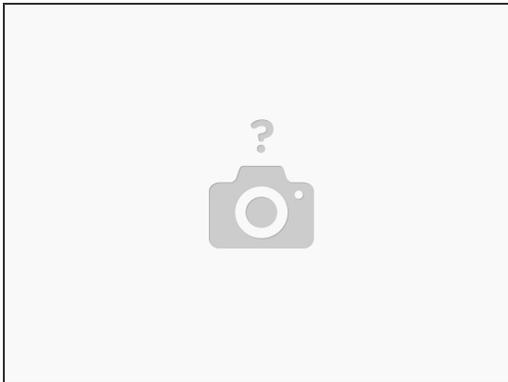
- To remove the screen, there is an entire system of clips which need to be undone as well as 4 Phillips M1.5x2.7 screws.
- The screws should be removed using a Phillips #000 screwdriver. There is a sticker where the laptop attaches to the keyboard.
- Heat the sticker (if needed) and use fine point tweezers to grip the sticker and remove it.

## Step 3



- Use the plastic opening tools or insert a spudger to begin unclipping the system.
  - Pry the screen off once all the clips have been unclipped.
- ⚠ The screen may shatter if not already shattered (beware of flying glass).

## Step 4



- This screen will broke. there are double tape underneath the frame, that is not listed in here.

## Step 5



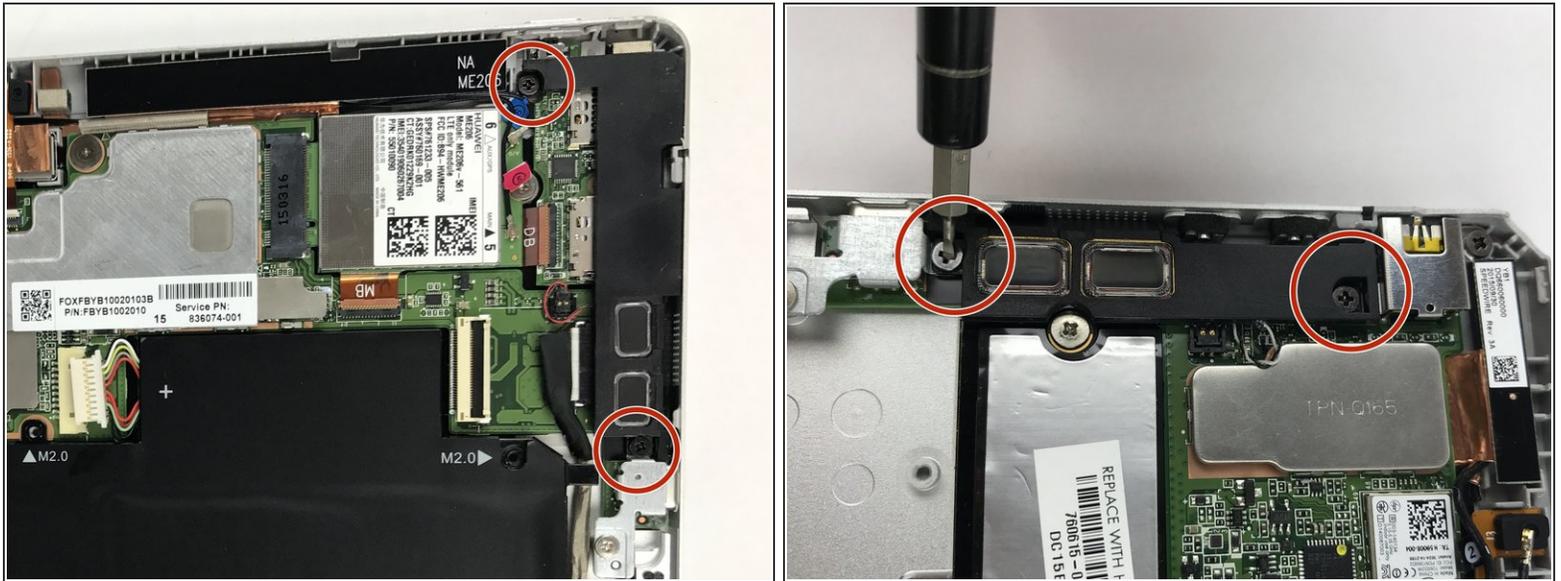
- Remove the connecting cable of the screen and battery. Use a spudger to reveal the adhesive strip and carefully peel it off.
- Insert a spudger to the other end and release the ZIF connectors. Detach the cable.
- ⓘ While a metal spudger is pictured, use a black nylon spudger instead because it is ESD safe.

## Step 6 — Speaker



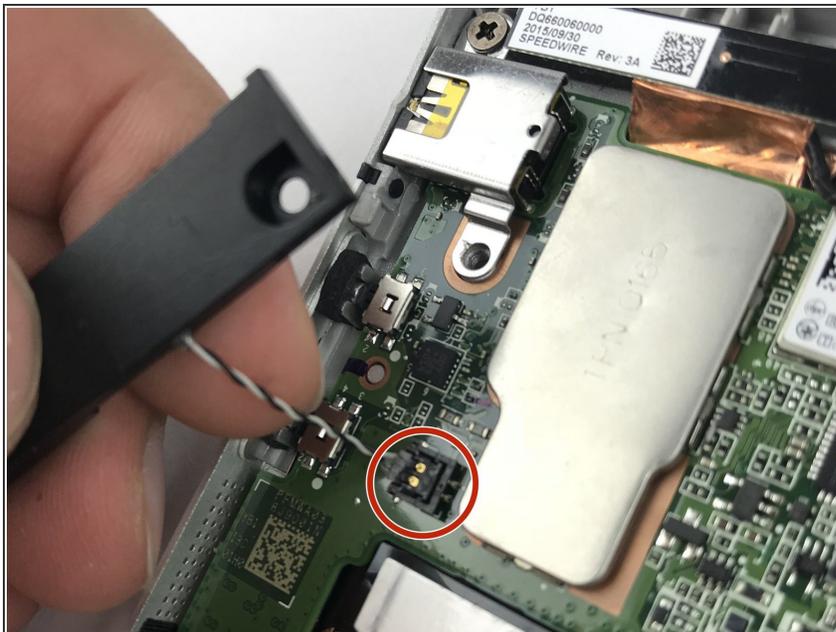
- The HP Spectre x2 has Two Speakers at the top of the laptop on either end.

## Step 7



- Unscrew the speaker assemblies.
- Each speaker has two PM2.0×3.4 screws securing the speakers as shown. Use a Phillips #0 to unscrew all four screws

## Step 8



- Each speaker is connected to the motherboard by a cable.
- ⚠ Remove this cable by gently working the connector out of the socket on the motherboard. Be careful not to damage the socket on the motherboard.

## Step 9



- Both speakers should now freely come out of the laptop.

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