



Kindle Fire HD 8.9" Speakers Replacement

This guide will illustrate how to open up your Kindle Fire HD 8.9" safely to remove the speakers.

Written By: Ian Meeder



INTRODUCTION

Fixing the speakers for your Kindle can be a pain - especially if you don't know where to start. But with a little direction and some elbow grease, you should be able to remove the speakers and replace them in no time.

TOOLS:

- Phillips #00 Screwdriver (1)
- iFixit Opening Tools (1)
- Spudger (1)
- Tweezers (1)

PARTS:

- Kindle Fire HD 8.9" Wi-Fi Speaker (2)
- Kindle Fire HD 8.9" Wi-Fi Right Speaker Enclosure (1)
- Kindle Fire HD 8.9" Wi-Fi Left Speaker Enclosure (1)

Step 1 — Screen



- Remove the SIM card tray (if present in your model).
- Insert a large plastic opening tool next to the Kindle's headphone jack.
 - ⓘ Make sure the notch on the plastic opening tool is facing the back of the Kindle.
- Move the plastic opening tool evenly around the Kindle, separating the two halves.

⚠ Be careful not to completely separate the rear cover. There are two delicate flex cables that connect the display assembly to the motherboard.

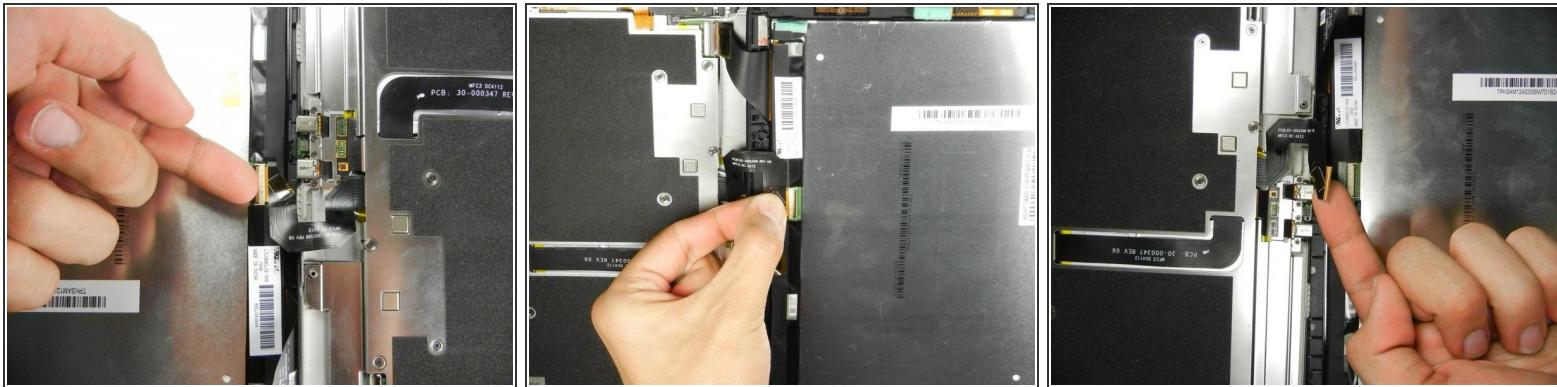
Step 2



- Set the Kindle down on the rear case.
- Holding the display assembly near the camera, carefully open the display assembly up to about 90 degrees from the rear case.

⚠ These images show the Kindle laying flat. In order to prevent damage to the flex cables, keep the Kindle open at 90 degrees while disconnecting the display assembly.

Step 3

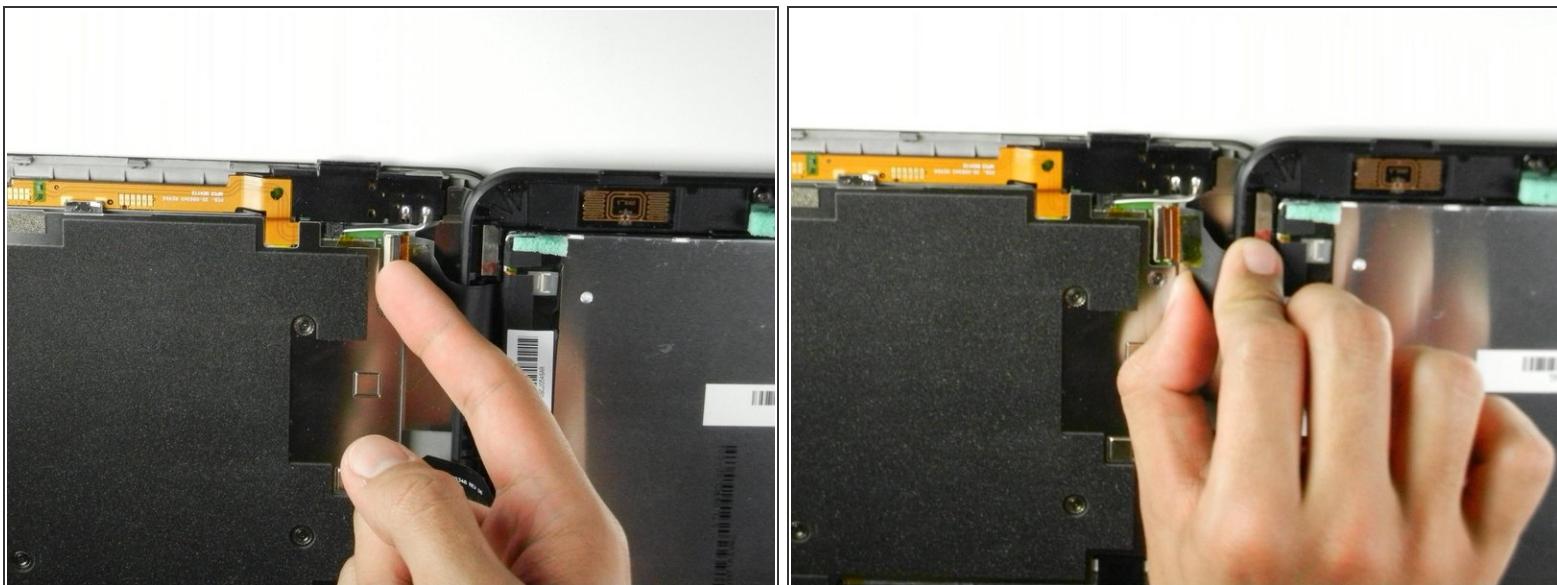


- Lift the retaining flap on the ZIF connector of the upper flex cable.

- Gently pull the cable out of its socket.

⚠ This flex cable is delicate. Be careful not to crease or bend it while working.

Step 4



- Lift the retaining flap on the ZIF connector of the lower flex cable.

- Gently pull the flex cable from its socket.

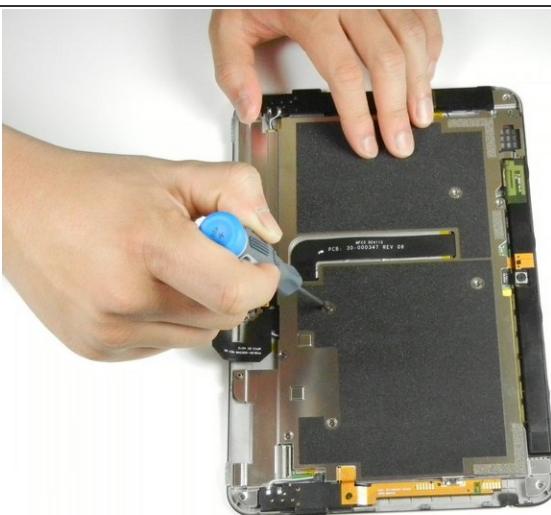
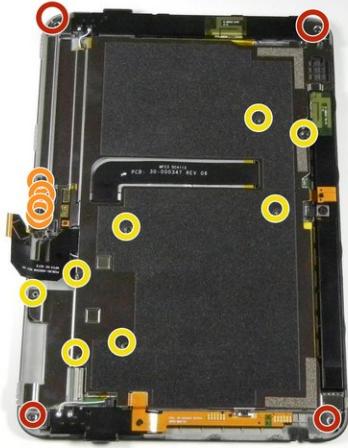
⚠ This flex cable is delicate. Be careful not to crease or bend it while working.

Step 5



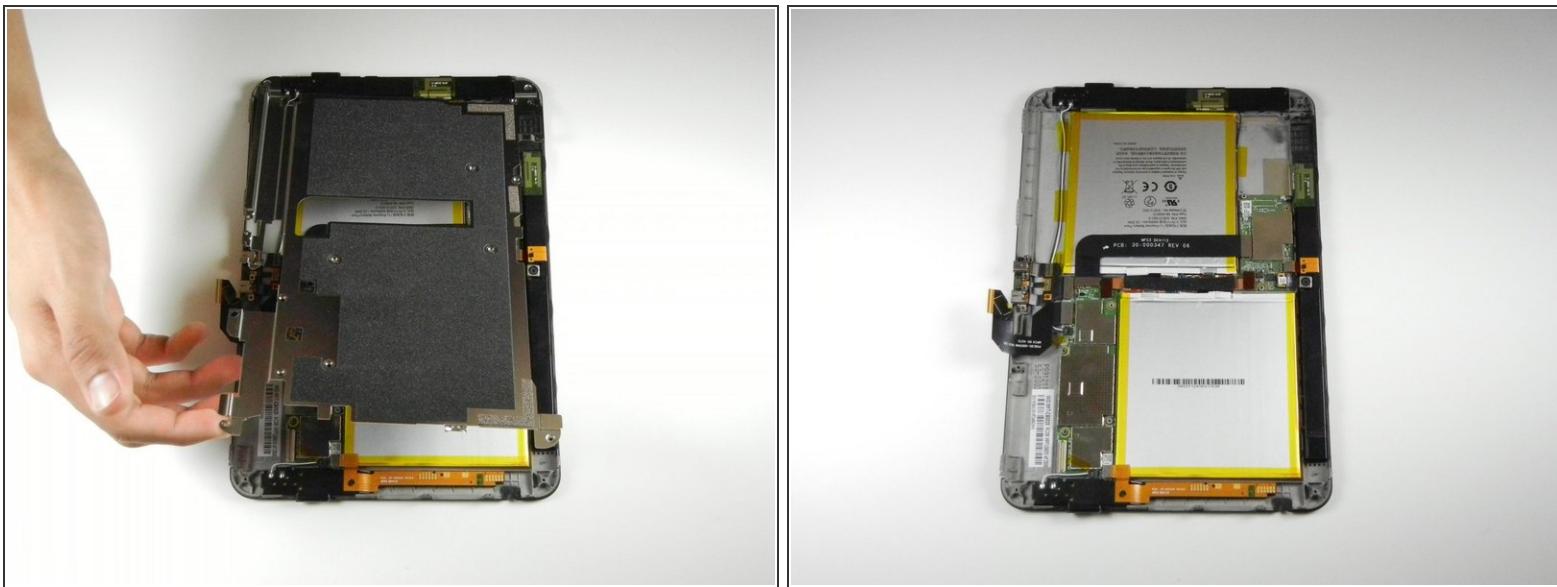
- Separate the display assembly from the rest of the device.
- ☒ When reassembling the device, align the two halves of the case before connecting the flex cables.

Step 6 — Inner Metal Casing



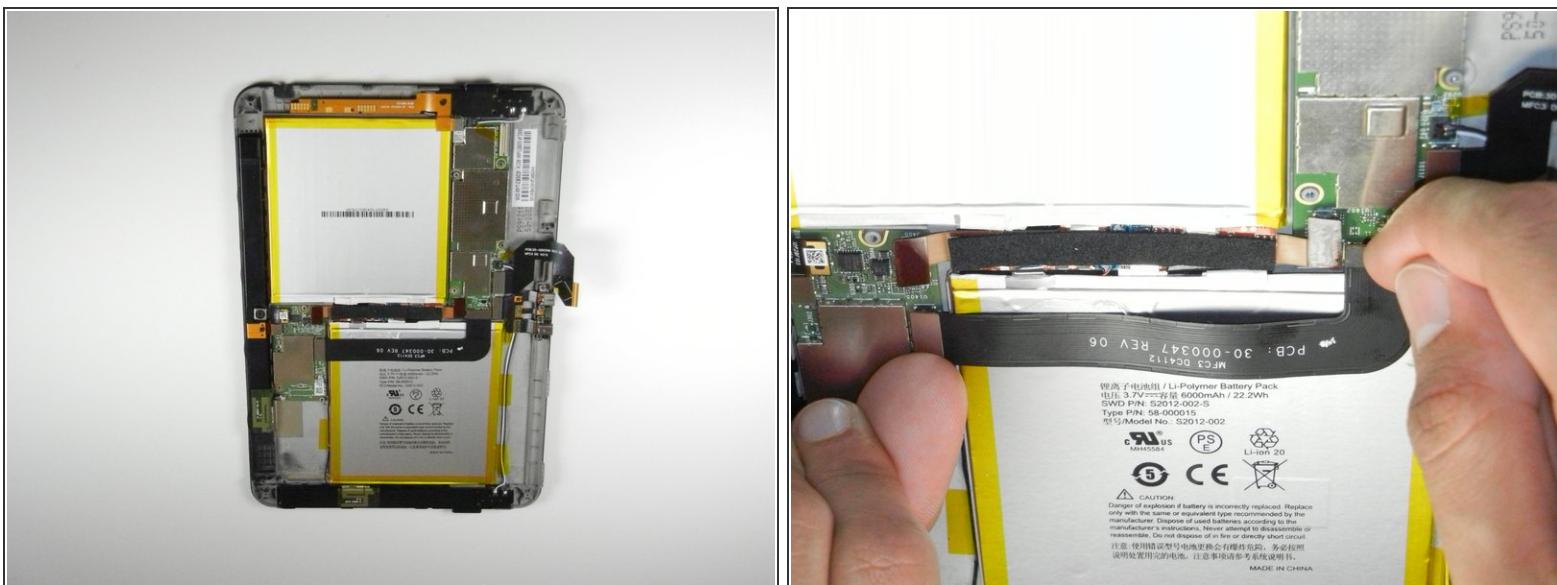
- Remove the following sixteen screws from the metal midframe on the rear of the device:
 - One 3 mm Phillips screw from each corner
 - Four 3 mm Phillips screws surrounding the ports
 - Eight 3 mm Phillips screws from the body of the midframe

Step 7



- Carefully remove the metal midframe.

Step 8 — Battery



(i) For easier handling, position the Kindle as shown.

- Lift up on the silver ends of the black flex cable that lays across the battery.
- Gently pull the black flex cable from the battery.

Step 9



- Disconnect the orange button cable from its socket on the motherboard.

⚠ Don't remove the button from the device. It is adhered to the case and may tear during removal.

Step 10



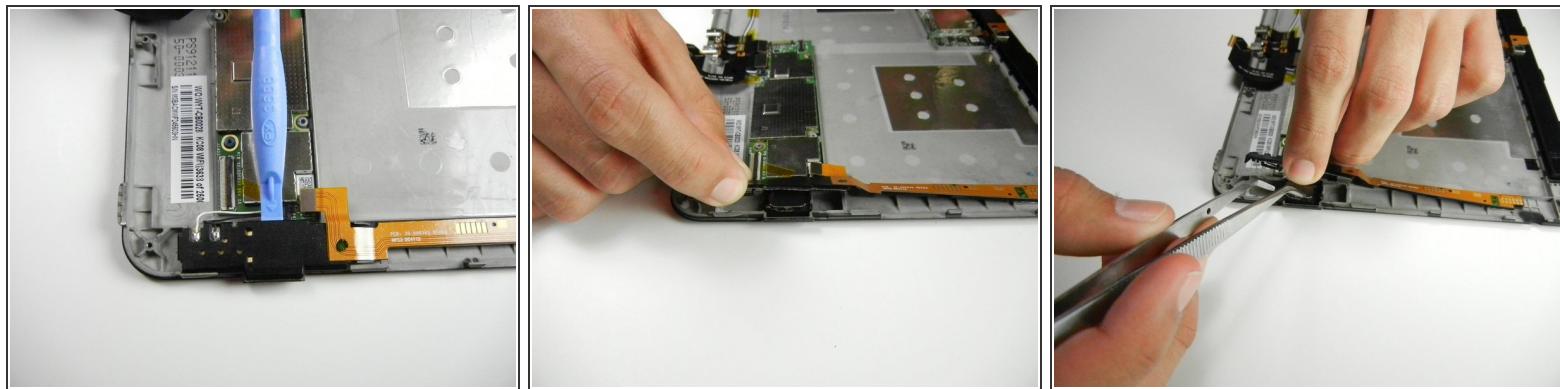
- Starting at the outside edge of the battery, use the flat edge of a spudger to separate the battery from the rear of the device.
⚠ Work carefully. Excessive force on battery may cause it to bend, break, or crack.
- Move the spudger along each side of the battery, prying upwards with even pressure.
- As the adhesive releases, push the spudger further underneath the battery.
- Once half of the battery is detached, pry the other half in the same manner.
- Remove the battery assembly from the Kindle.

Step 11 — Speakers



- Looking back at the Kindle before the battery was removed, locate the two speakers on the top and bottom.
- *i* We will be starting with the right (bottom) speaker.

Step 12



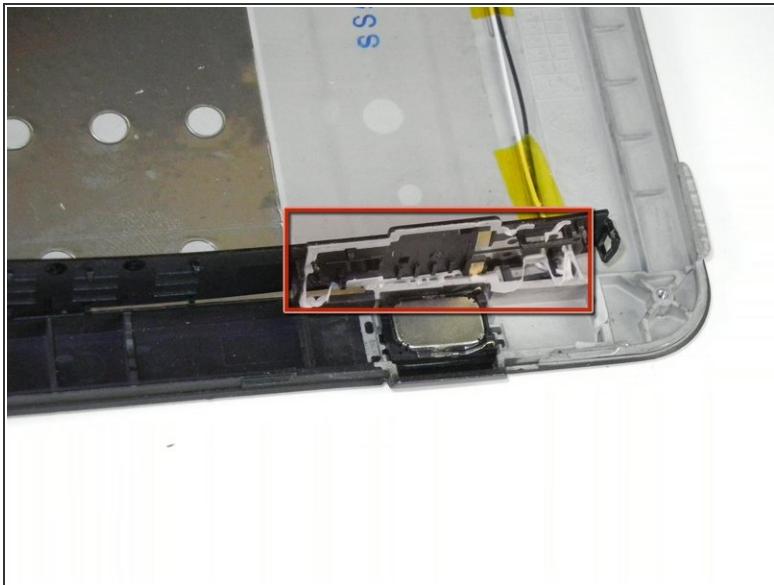
- With a plastic opening tool, pry along the top edge of the plastic casing.
- Prying will be difficult considering the liberal amount of adhesive used to keep the casing in place. Don't give up.
- Inside the casing is a small rectangular silver component. This is the speaker.
- ⚠ Pay attention to the orientation of the speaker.
- Using pliers and enough force, pull the speaker upward and out of the casing. Once again adhesive may prove difficult.

Step 13



- To get to the left speaker use a plastic opening tool and pry open the plastic casing.
- We recommend starting at the edge furthest from the speaker because there is less adhesive.
- Move along the edge, forcing the opening tool in further and prying the two sections apart.
- Don't be afraid to use force as the casing is flexible.

Step 14



- Continue to move the opening tool along the edge until the entire casing is open.
- Around the speaker is an extensive amount of adhesive (the white ribbons) and will require more force to separate.

⚠ Pay attention to the orientation of the speaker.

- Once the left speaker is accessible, use your fingers or some tweezers to pull the speaker upward and out.
- Again there will be adhesive to make the process that much more enjoyable. Who doesn't like a challenge?

To reassemble your device, follow these instructions in reverse order. Be sure to replace the speakers in the correct orientation.