

Kindle Tablet HDX 8.9 (third generation) Internal Battery Replacement

I had a Kindle Fire with a swollen battery, and...

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INTRODUCTION

I had a Kindle Fire with a swollen battery, and instead of just e-wasting the whole unit, I decided to fix it. Follow along for the ride.

If you decide to undertake a similar project: **understand that the battery could explode** and possibly <u>the screen could shatter sending shards of glass towards your being</u>. If you're unsure about this, or you prefer to stay safe, <u>don't try this repair for a bulging battery</u>.



TOOLS:

T5 Torx Screwdriver (1)

Spudger



PARTS:

Replacement Battery (1)

Step 1 — Remove the rear cover







Start by removing the plastic cover to the speakers and webcam. I used a couple of spudgers, but you can also see the exploded version from the product video still I included, as well. Take your time, this is probably the most patient part of the whole repair.

Step 2 — Undo the screws



 I'm not positive, but I think these were T5 screw sizes. Keep them in order.

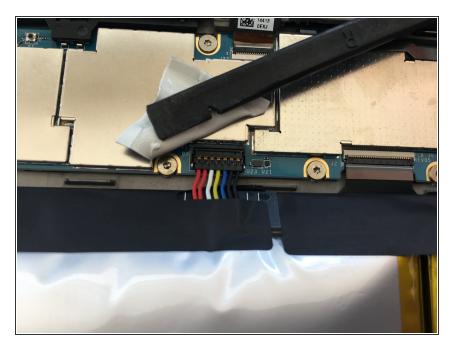
Step 3 — Lift off the display





- You can see the two ribbon cables that keep the display and controls connected on the bottom of the frame. I've already peeled back the battery connector for this shot, sorry for not giving you an in-progress shot, but it's pretty obvious.
- You can see how much my screen was bulging in the second photo. This is the dangerous part

Step 4 — Disconnect the battery



- The connector is hidden under some tape, shown peeled back here. After the risk of the screen shattering, I'd say this is the most dangerous part for this repair. You're peeling off sealed batteries and physically manipulating them. Use Caution
- Use the spudger to lift the battery connector out of it's port. The less torque you use, the better (so don't go twisting and prying)

Step 5 — Disconnect the screen







- Remove the two ribbon cables
- Both cable connections are covered in <u>Kapton tape</u> (the yellow electronics friendly tape you see inside many devices), peel it off carefully, since we're just gonna re-use it upon reassembly.

Step 6 — Disconnect the display cables





These are both <u>ZIF connectors</u>, meaning they use a friction flap to hold them in place. Carefully lift the flap, and disconnect the ribbon cabling for both cables.

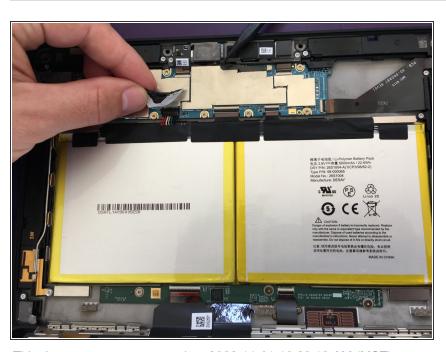
Step 7 — Pry out the battery





- I wish I had better words here, but this battery is glued in there solid.
- Be careful it can explode or catch fire. Use common sense and good precaution.
- The second photo here shows the battery after I spent probably 4 minutes slowly prying it away from the glue.

Step 8 — Install the new battery



 I ordered my OEM replacement on eBay for about \$34. I'm re-placing the tape mentioned earlier in this guide, in this shot.

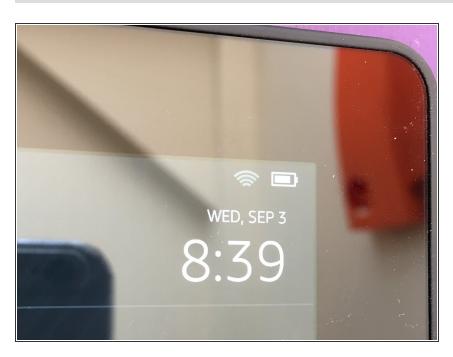
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Step 9 — Reconnect the screen



- Reconnect the two ribbon connections, previously removed.
- Bottom edge slides in first (no, this isn't a shot of my smoke detector, you can see the bottom teeth
 of the screen along the edge)
- When I re-assembled, I got a black screen, which turned out to be an improperly seated right ribbon connection. Take your time and check your connections.

Step 10 — Check your work



- Once you have both ribbon cables re-seated and the Capton tape reinstalled, reconnect the battery.
- I like to check that connections are working before sealing everything back up (re-install the screws, reattach the plastic screw cover, to finish).

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