CELLPHONESANDBOX

Manual 09 - Lower Speaker

Written By: James Linder

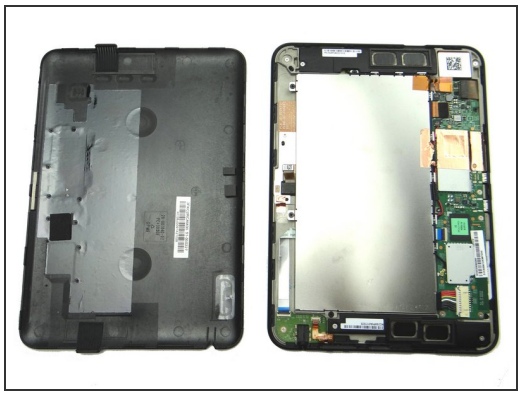
Step 1 — Removal 1 - Battery Cover

- Power down device.

Step 2

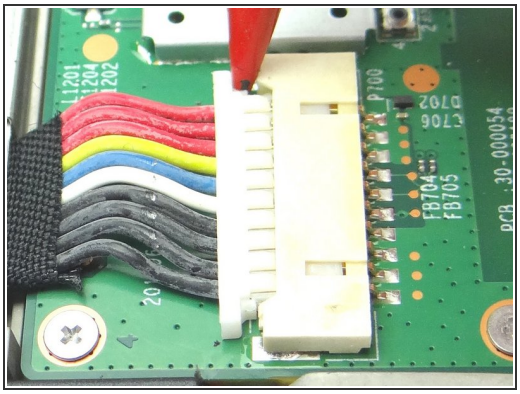
- Picture 1: Insert the blue pry tool between the front panel and battery cover, with the the tip face down, an inch left of the charging port. Pop up the cover just enough to reinsert the blue pry tool face up.
- Pictures 2 & 3: Insert the blue pry tool face up an inch left of the charging port. Twist until you can grab the battery cover with your fingers.

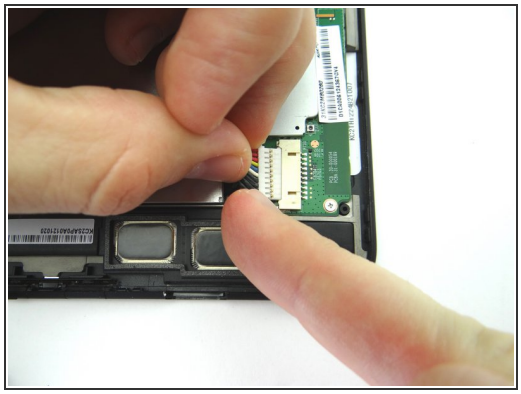
Step 3



- Work your way around the perimeter with your fingers. Continue peeling the battery cover up until it's free.
- Place battery cover in ZONE V.

Step 4 — Removal 2.1 - Disconnect Battery

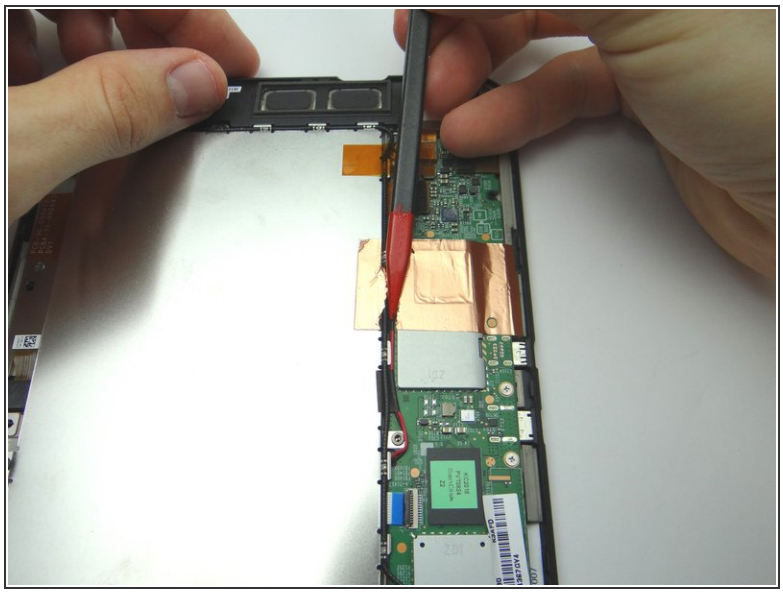


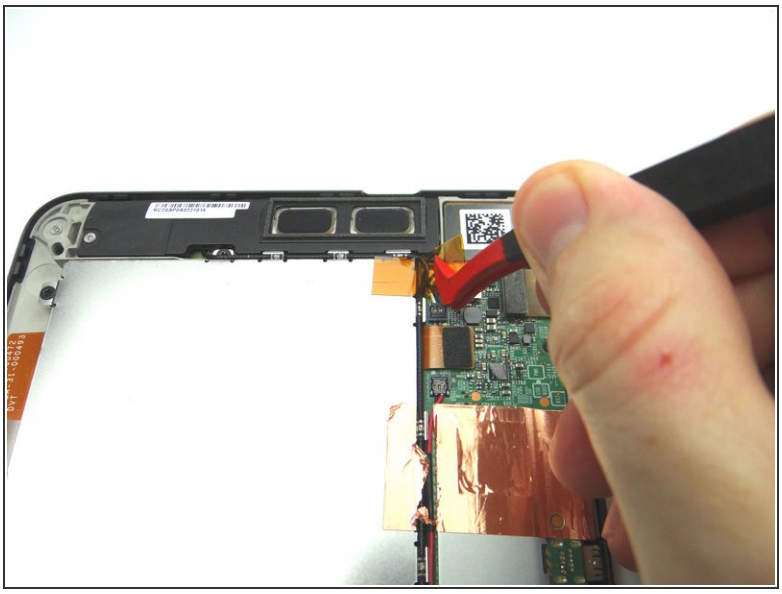


⚠ The battery connector is stiff and fragile:

- Picture 1: Use the pointed end of the spudger to push back the top of the battery connector slightly.
- Picture 2: Use your finger to put mild tension at the top of the connector while using the spudger to push back the bottom of the connector.
- Picture 3: Finish removing the connector with your fingers.

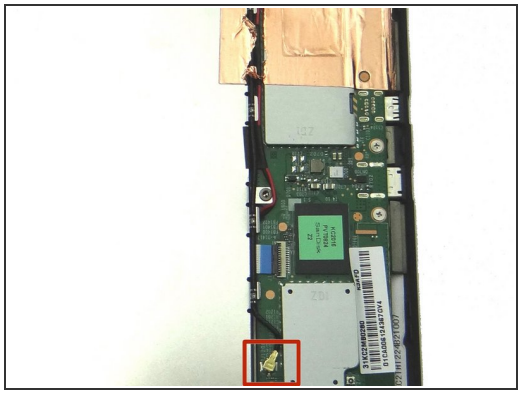
Step 5 — Removal 2.2 - Remove Battery

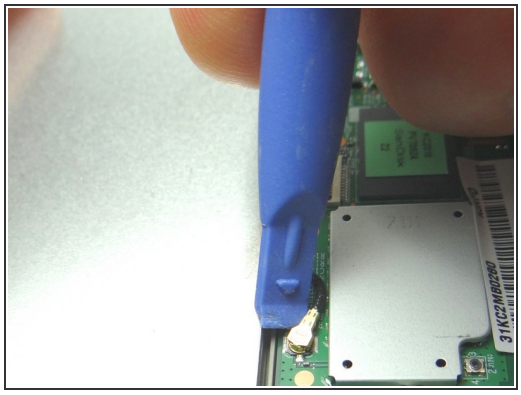


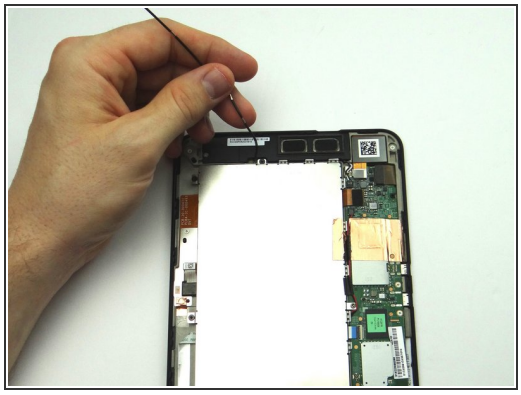


- With the pointed end of the spudger, cut through the copper tape covering cables.
- Use plastic tweezers to remove the Kapton tape covering the top speaker connector.

Step 6

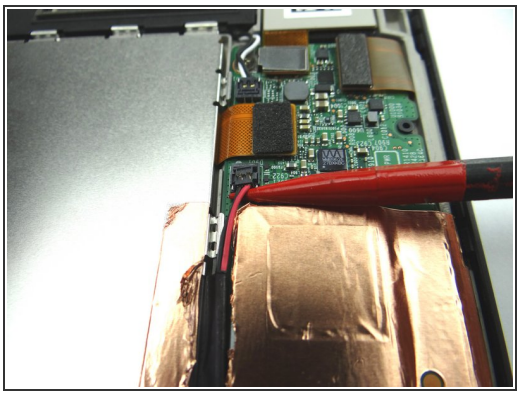
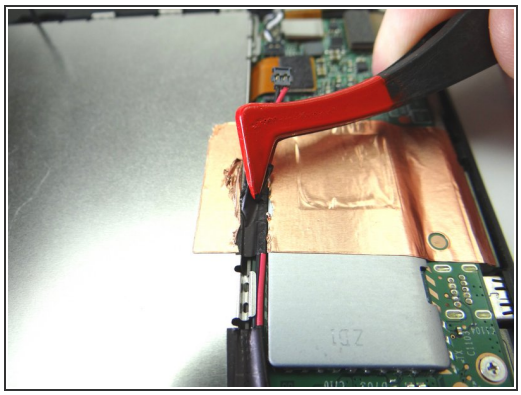
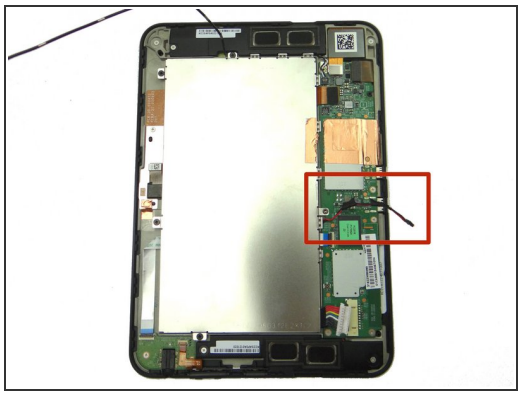






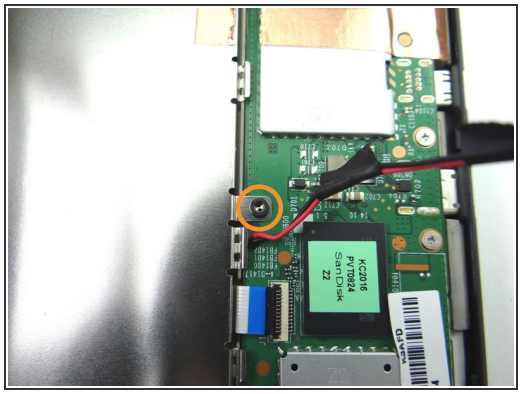
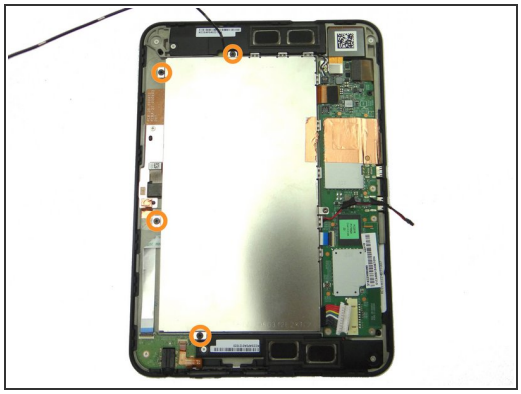
- Pictures 1 & 2: Use blue pry tool to disconnect antenna cable.
- Picture 3: Peel up antenna cable. Move it out of the way of the battery.

Step 7

- Picture 1: Wedge the pointed end of the spudger under lower speaker cable connector and lift straight up.
- Picture 2: Use plastic tweezers to peel up the black electrical tape covering the speaker cable, without removing it, to free the cable.
- Picture 3: Move the speaker cable out of the way of the battery.

Step 8

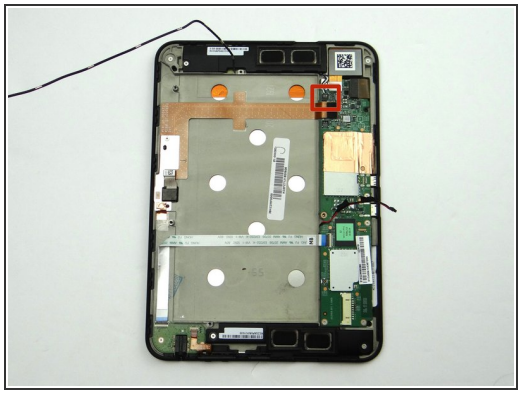



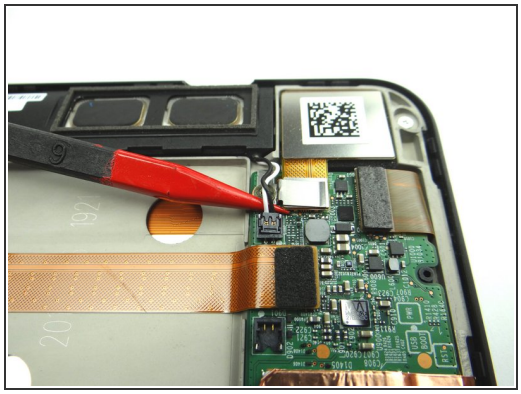
- Pictures 1 & 2: Remove one 3.6 mm T5 Torx screw. Place in SLOT 1.
- Picture 3: Remove four 2.2 mm #00 Phillips screws. Place in SLOT 2.

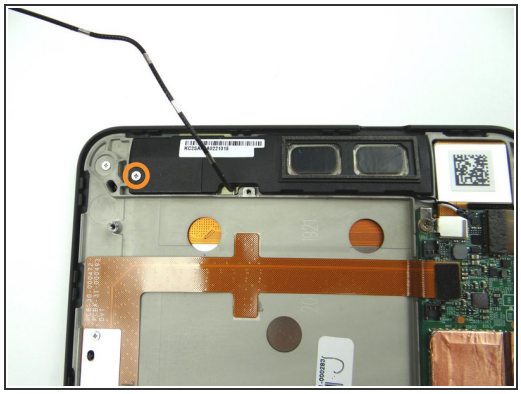
Step 9

- Lift the battery away from the kindle.
- Place battery in ZONE V.

Step 10 — Removal 3 - Top Speaker

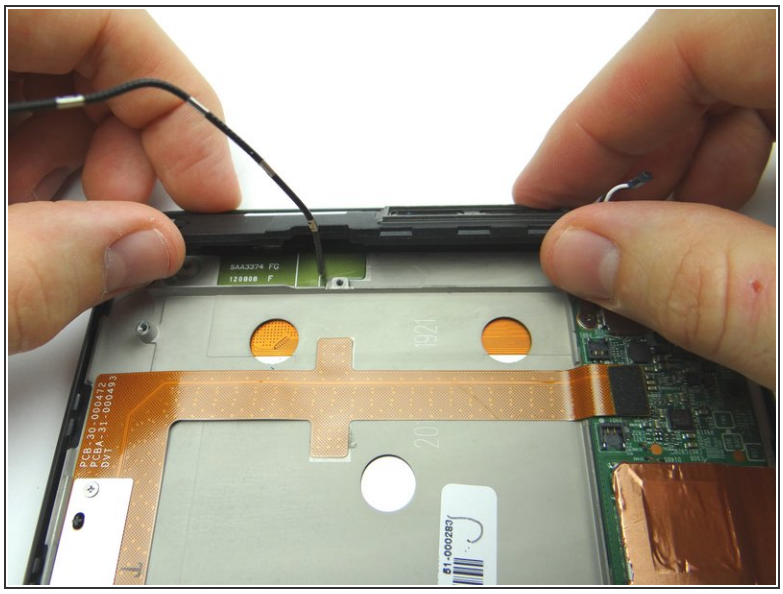






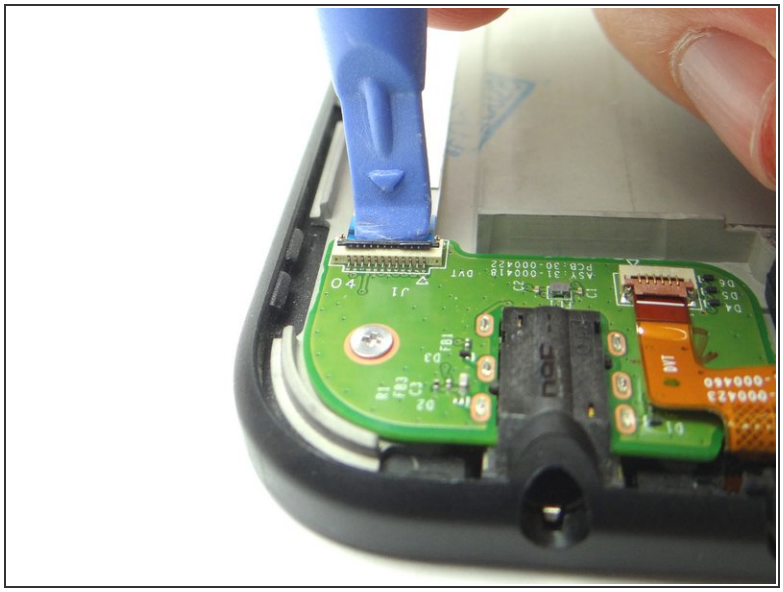
- Pictures 1 & 2: Disconnect top speaker cable.
- Picture 3: Remove one 3.1 mm #00 Phillips screw. Place in SLOT 3.

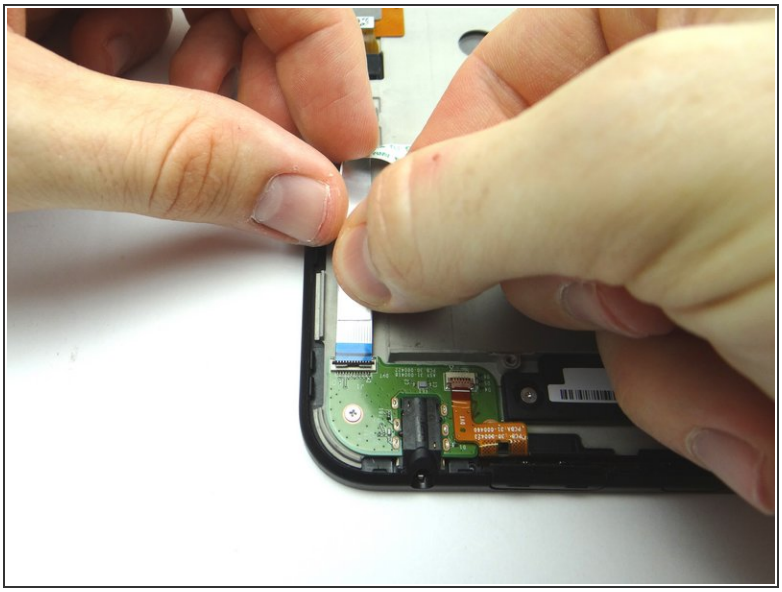
Step 11



- Remove top speaker and place in ZONE I.

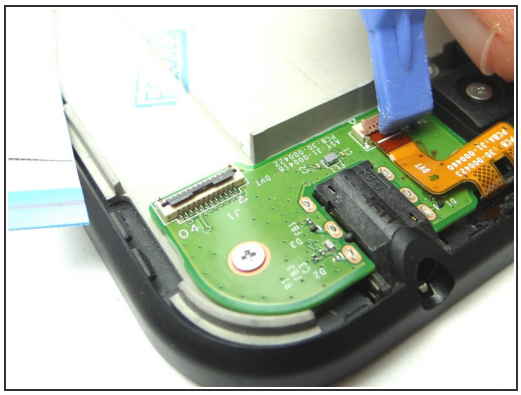
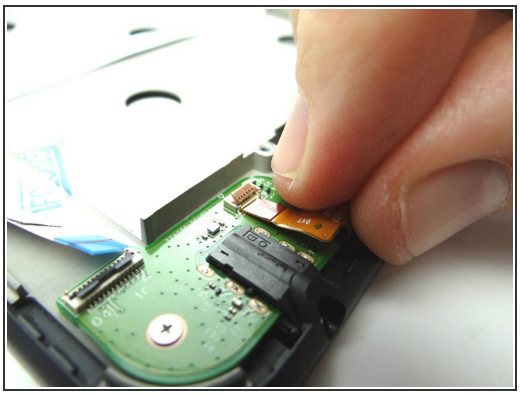
Step 12 — Removal 4.4 - Headphone Jack





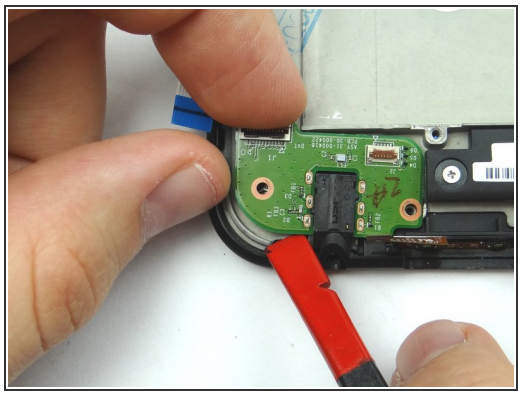
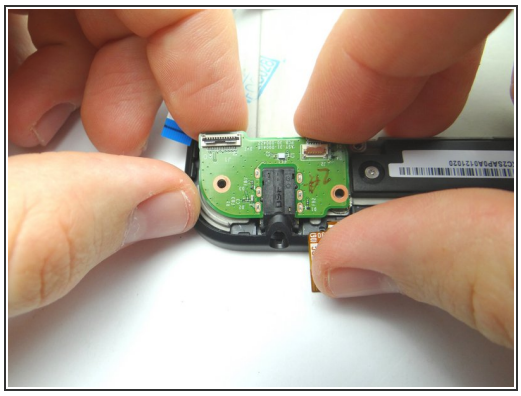
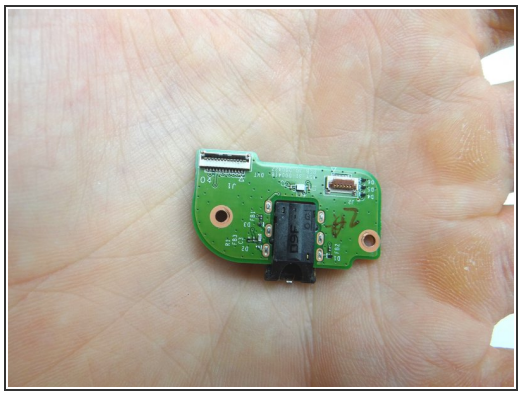
- Picture 1: Use blue pry tool to open ZIF connector.
- Picture 2: Remove headphone jack cable with your fingers.

Step 13

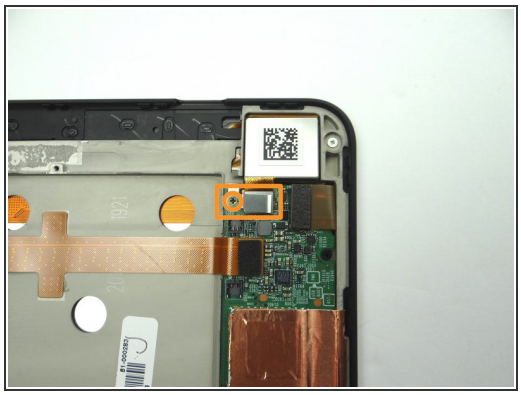
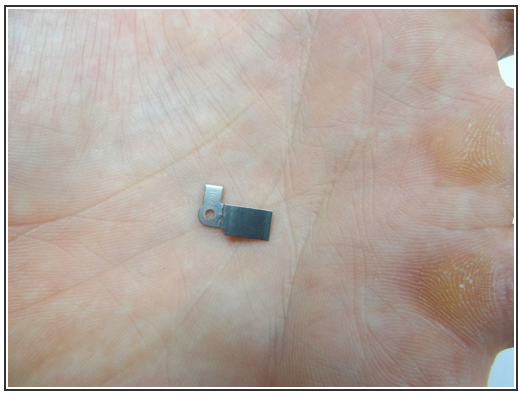
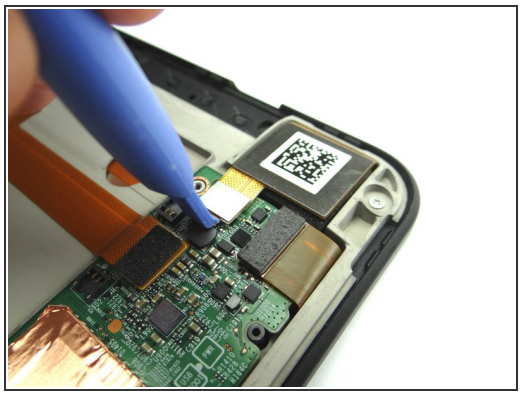
- Picture 1: Open ZIF connector holding volume & power buttons cable.
- Picture 2: Remove cable with your fingers.
- Picture 3: Remove two 3.1 mm #00 Phillips screws. Place in SLOT 4.

Step 14

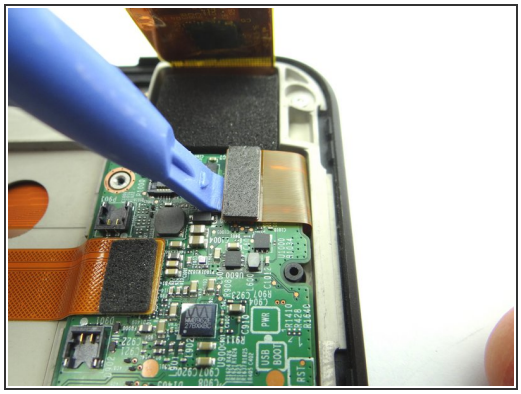
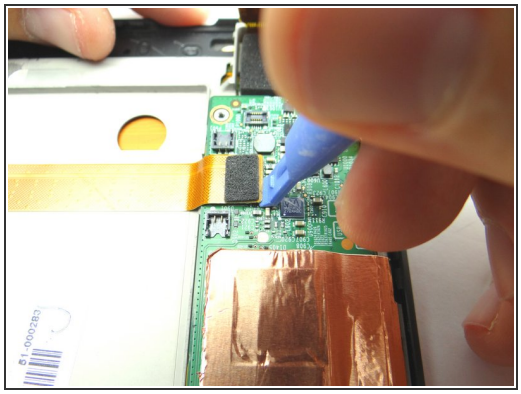
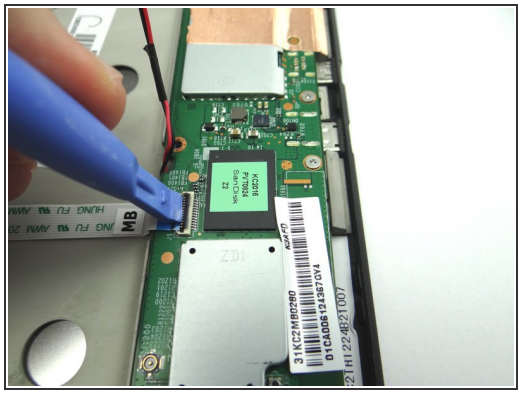
- Use flat end of spudger and your fingers to pry up headphone jack board.
- Remove it and place in COMPARTMENT D.

Step 15 — Removal 5 - Logic Board

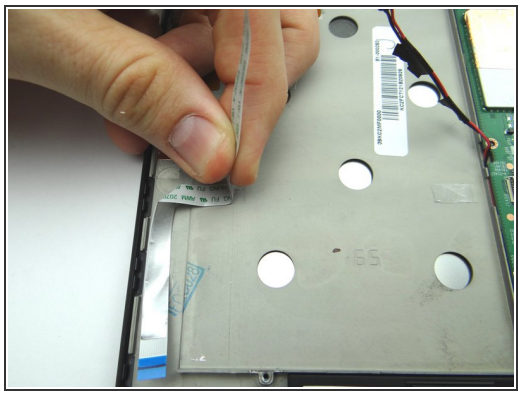
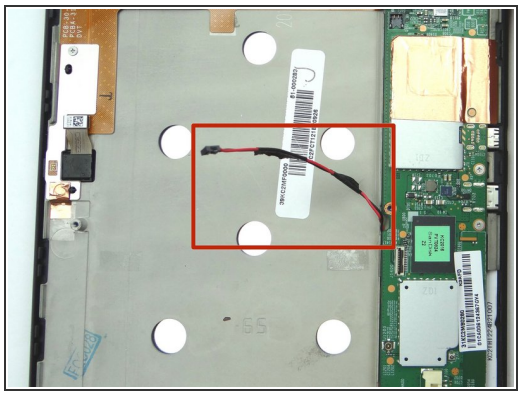
- Pictures 1 & 2: Remove 1.8 mm #00 Phillips screw. Place in SLOT 5. Place the bracket held down by the screw in SLOT 5 too.
- Picture 3: Disconnect digitizer cable.

Step 16

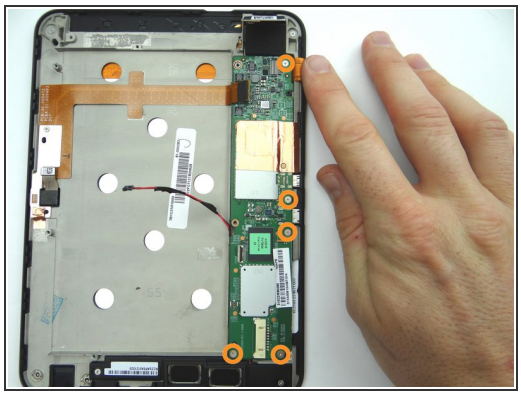
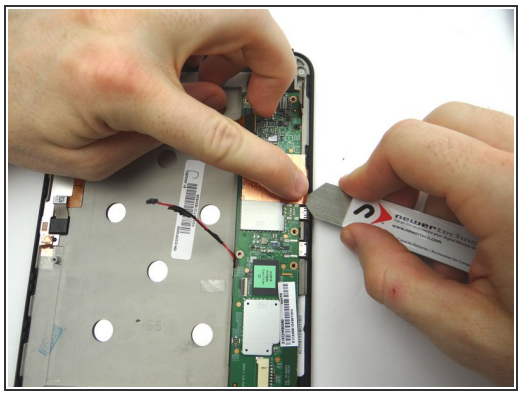
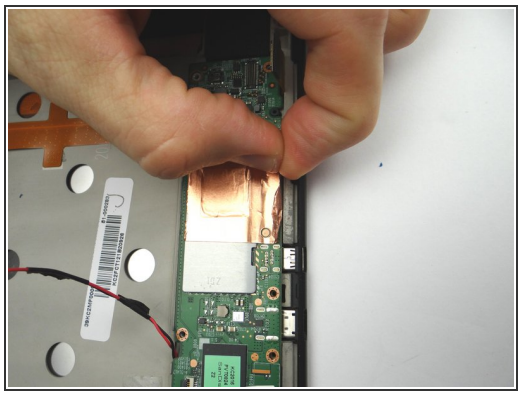
- Picture 1: Disconnect LCD cable.
- Picture 2: Disconnect camera connection cable.
- Picture 3: Open ZIF connector for headphone jack connection cable.

Step 17

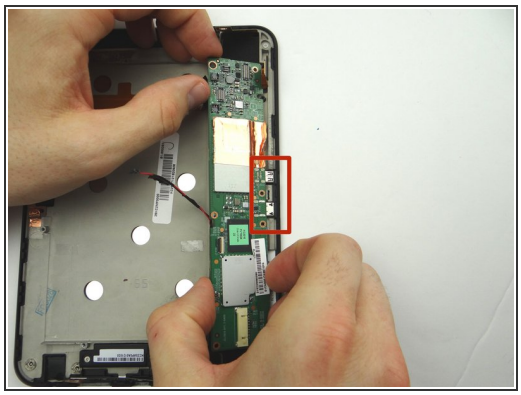
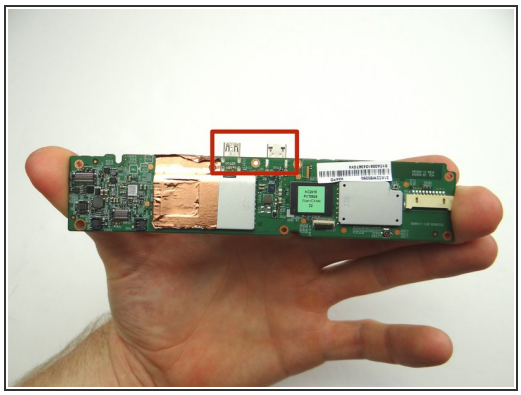
- Picture 1: Remove headphone jack connection cable from open ZIF connector.
- Picture 2: Peel up cable and place in ZONE V.
- Picture 3: Make sure the speaker cable is out of the way of the logic board.

Step 18

- Picture 1: Remove five 3.2 mm #00 Phillips screws holding down logic board. (Note the hidden screw in the upper-right hand corner). Place in SLOT 6.
- Picture 2: Peel up the corner of the copper tape with the iSesamo in one hand, while protecting the logic board from contact with the iSesamo tool with your pointer finger on the opposite hand.
- Picture 3: Continue peeling the tape up from the mid-plate with your fingers.

Step 19

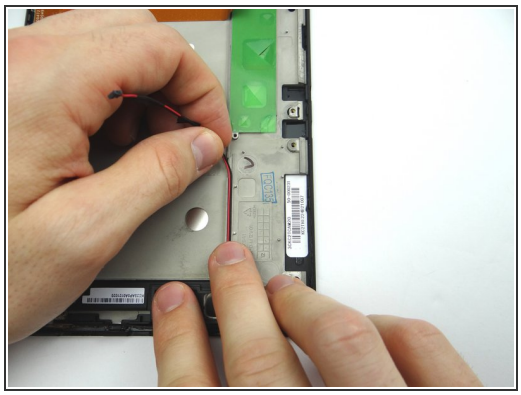
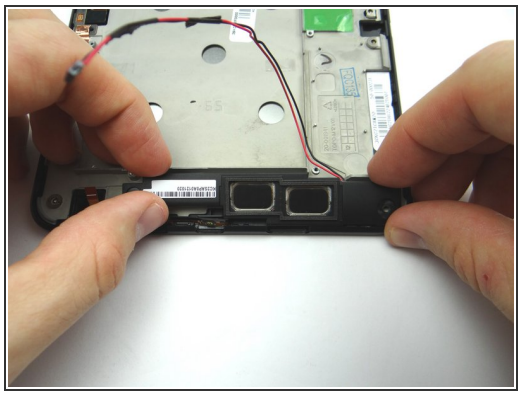
There should be minimal tension while removing the logic board:

- Picture 1: Lift the top of the logic board with the blue pry tool just enough to wedge your pointer finger underneath.

Picture 2: Grab the logic board with your fingers and carefully guide the charging port and HDMI port (red square) out of their sockets. Finish removing the logic board.

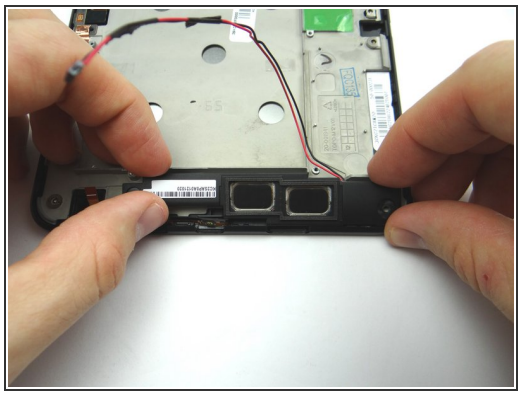
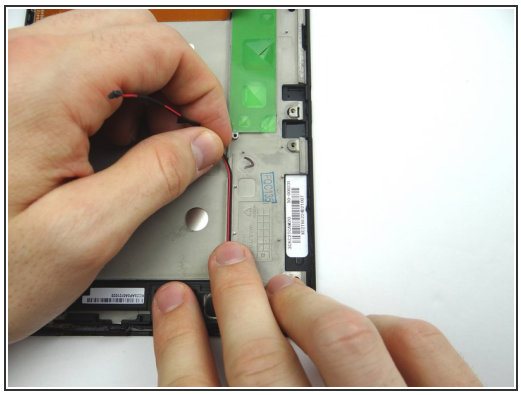
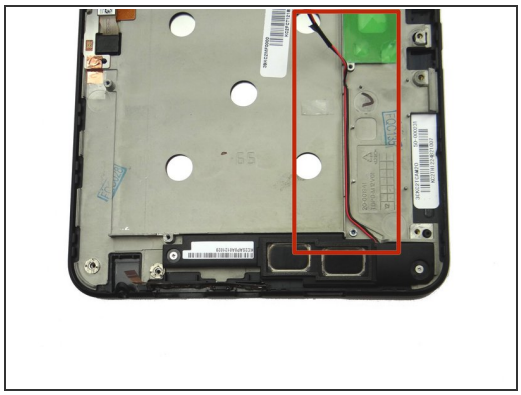
- Picture 3: Shows the charging port and HDMI port (red square). Place logic board in ZONE V with battery and battery cover.

Step 20 — Removal 6 - Lower Speaker

- Remove two 3.1 mm #00 Phillips screw. Place in SLOT 7.
- Peel up speaker cable.
- Remove lower speaker and place in ZONE II.

Step 21 — Replacement 6 - Lower Speaker

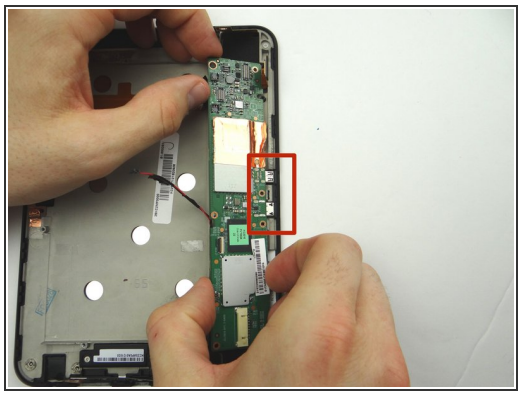
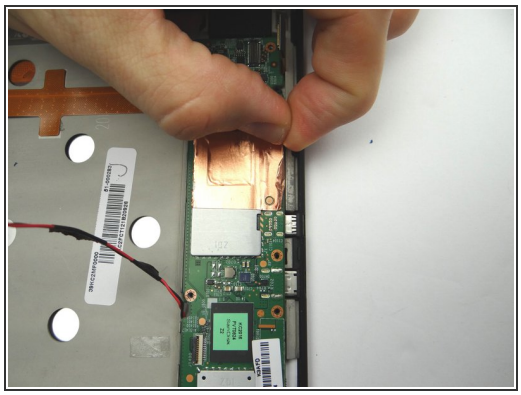
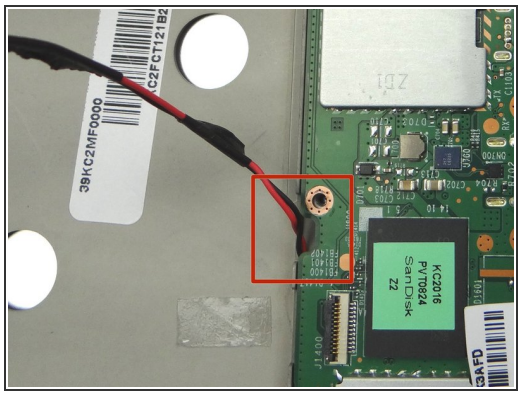




- Picture 1: Seat the lower speaker from ZONE II.
- Pictures 2 & 3: Run the speaker cable along the outside wall of the battery chamber on the mid-frame.

Step 22

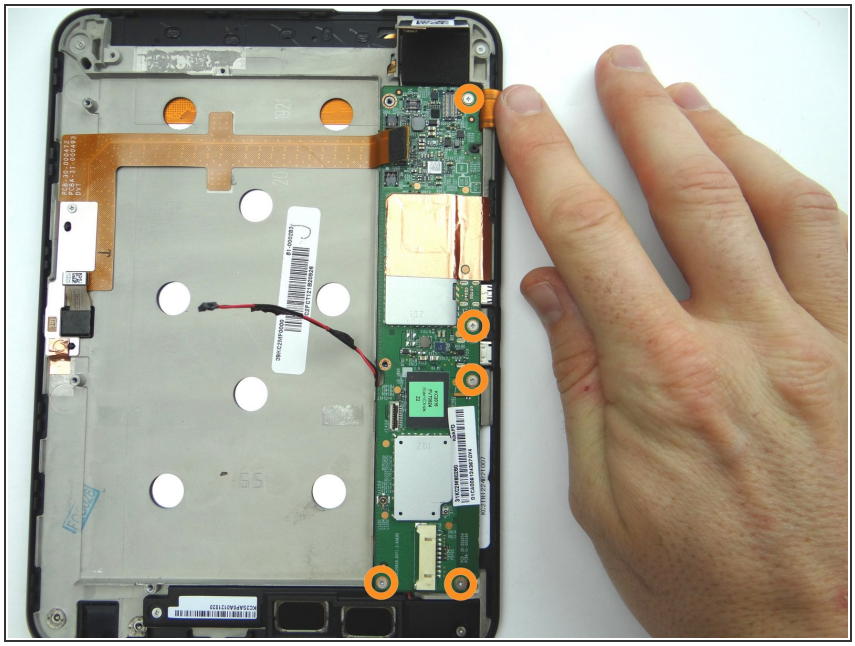
- Replace two 3.1 mm #00 Phillips screws from SLOT 7.

Step 23 — Replacement 5 - Logic Board

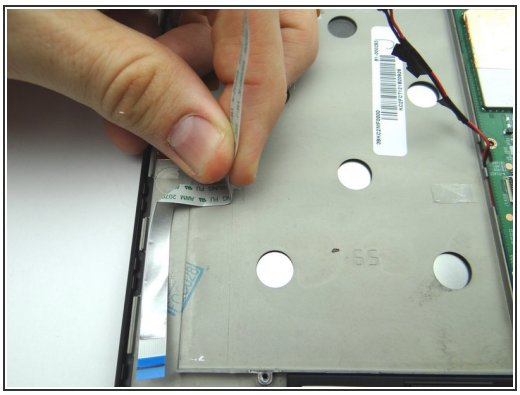
- Picture 1: From ZONE V, guide the HDMI and charging port (red square) in first then continue to seat logic board.
- Picture 2: Adhere the edge of the copper tape to the mid-plate.
- Picture 3: Make sure the lower speaker cable is feed through the opening in the logic board as pictured.

Step 24



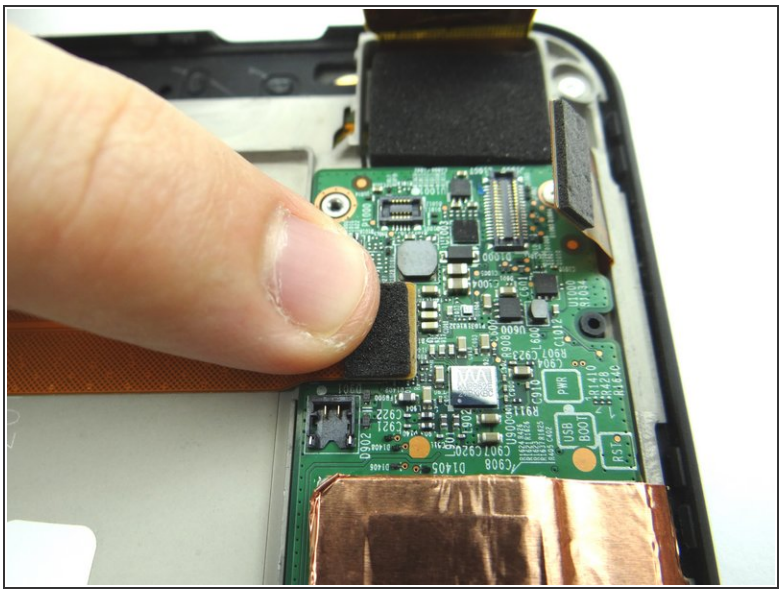
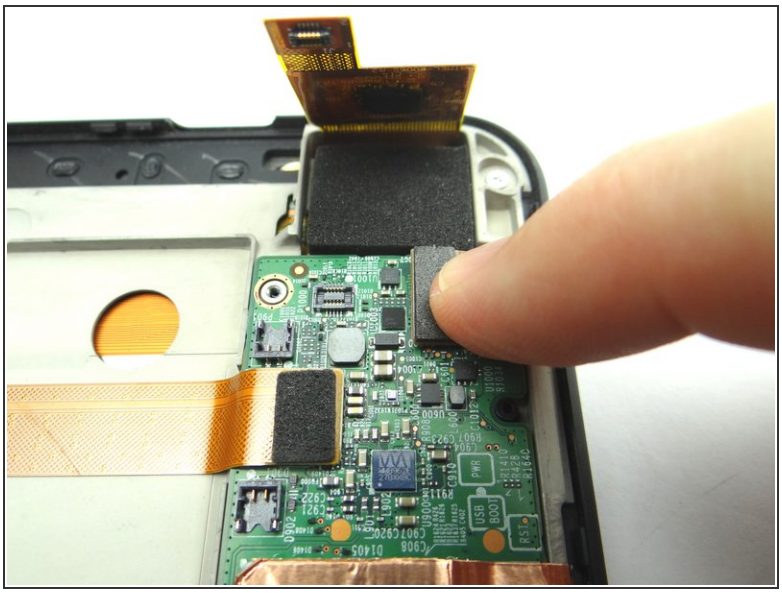
- Replace five 3.2 mm #00 Phillips screws holding down logic board from SLOT 6.

Step 25



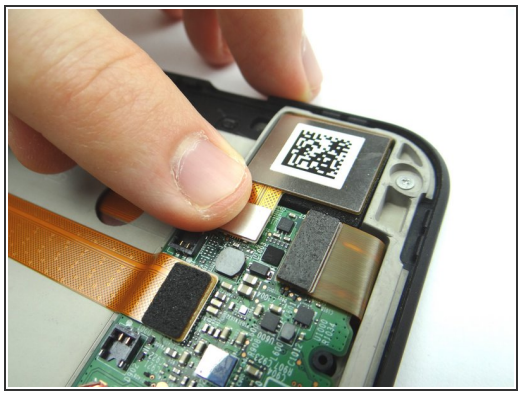
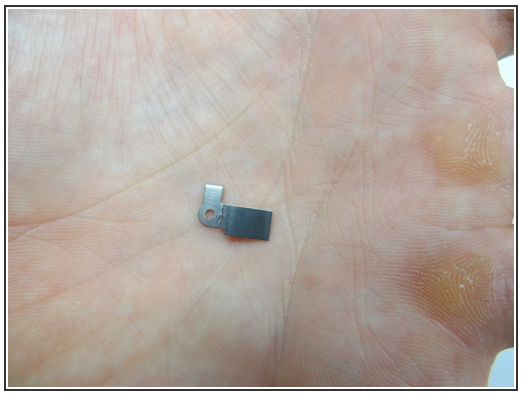
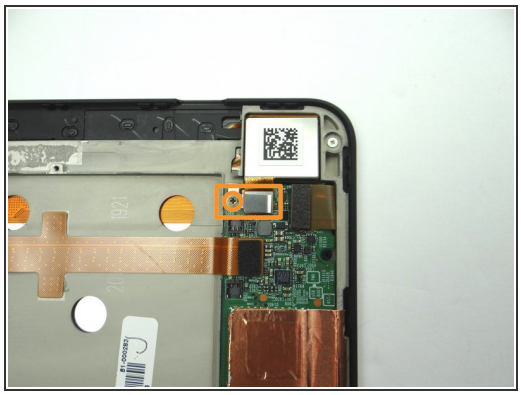
- Picture 1: From ZONE V, seat headphone jack connection cable.
- Picture 2: Connect to ZIF connector on logic board.
- Picture 3: Close ZIF connector.

Step 26

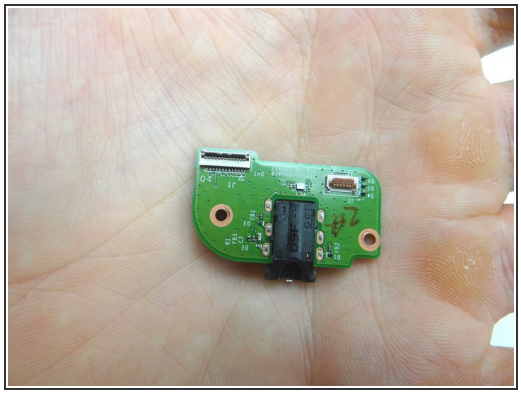
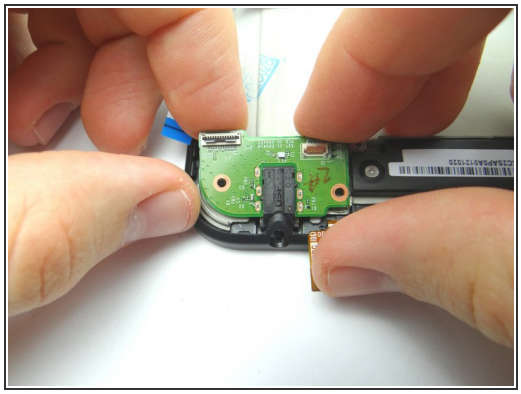
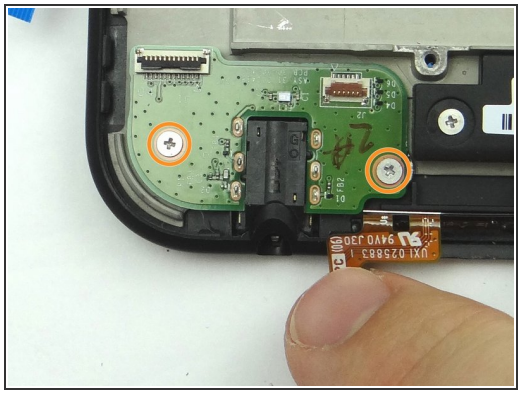
- Connect camera connection cable.
- Connect LCD cable.

Step 27

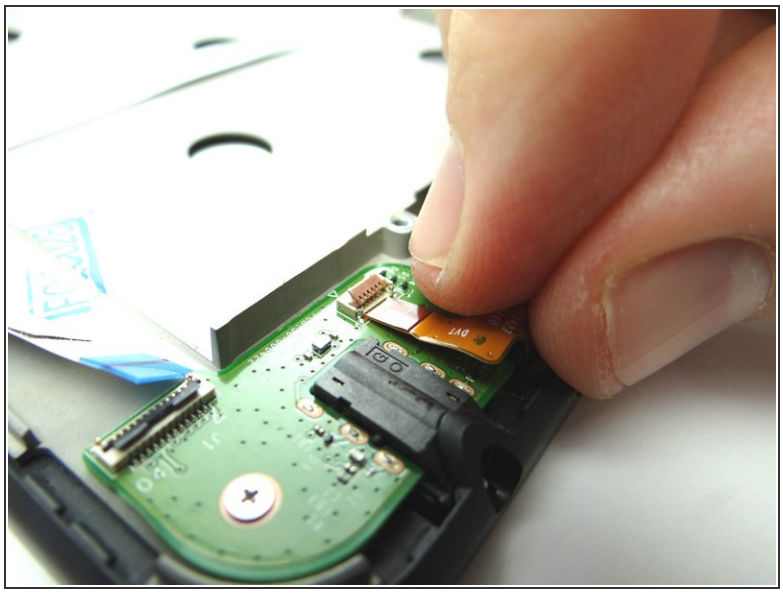
- Picture 1: Connect digitizer cable.
- Pictures 2 & 3: Seat the bracket from SLOT 5. Replace 1.8 mm #00 Phillips screw from SLOT 5 to hold down bracket.

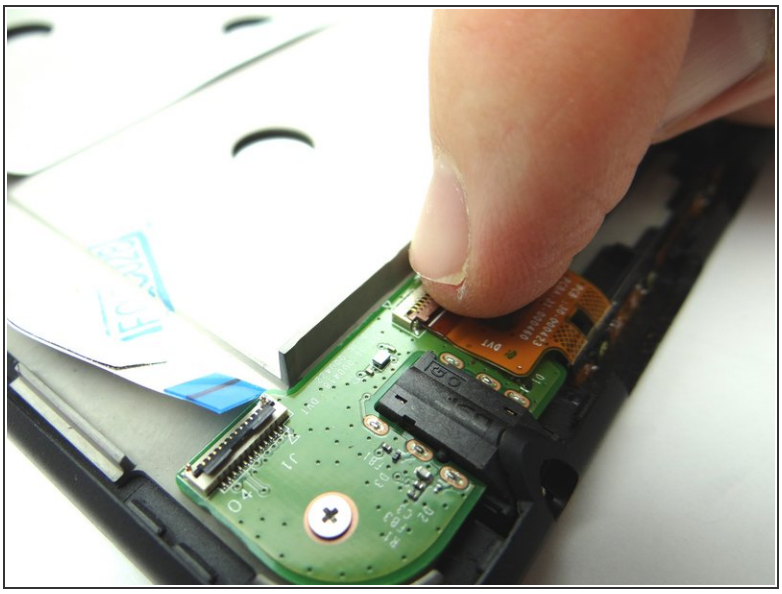
Step 28 — Replacement 4.4 - Headphone Jack

- From COMPARTMENT D, replace headphone jack board.
- Replace two 3.1 mm #00 Phillips screws from SLOT 4.

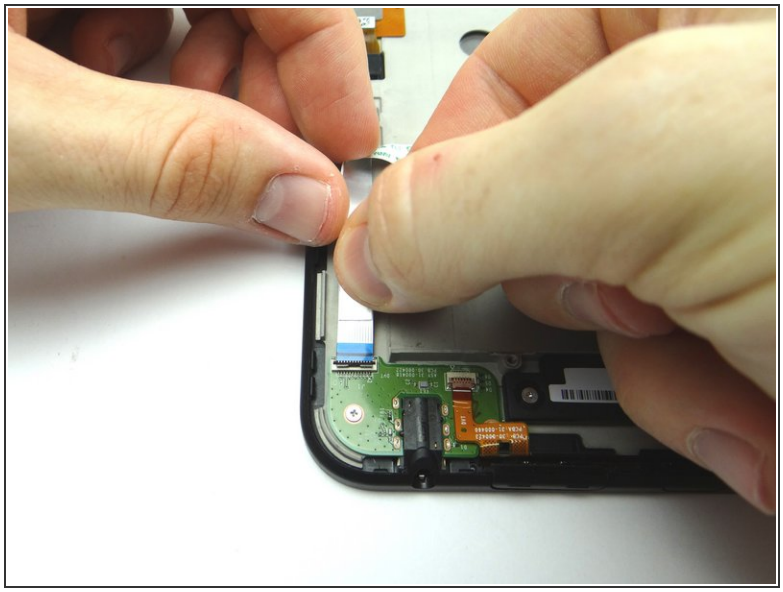
Step 29

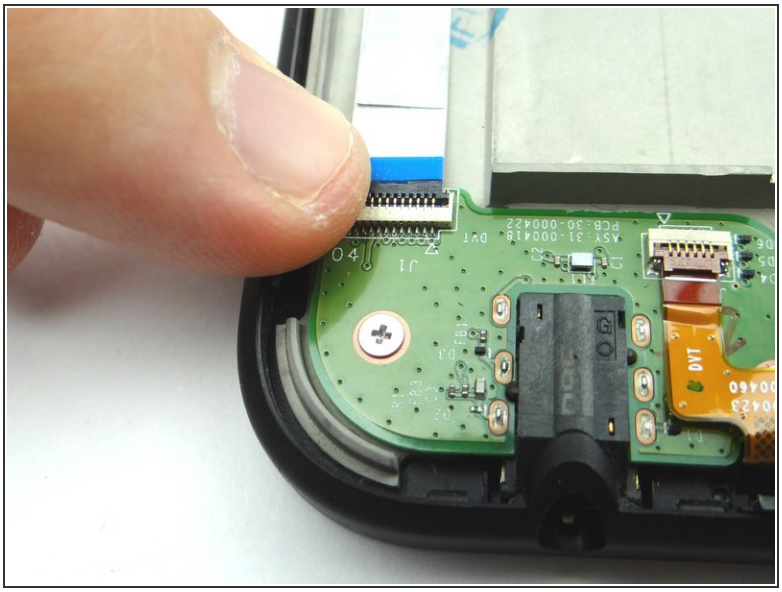




- Push power and volume buttons cable head into open ZIF connector.
- Close ZIF connector

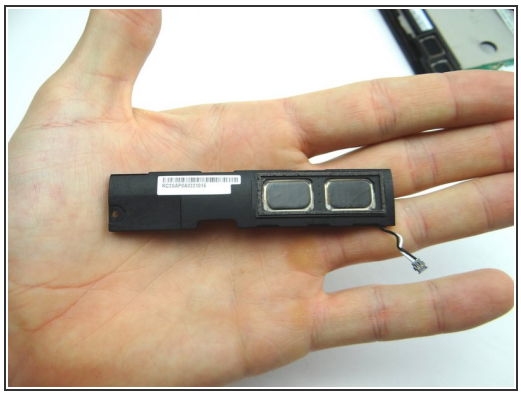
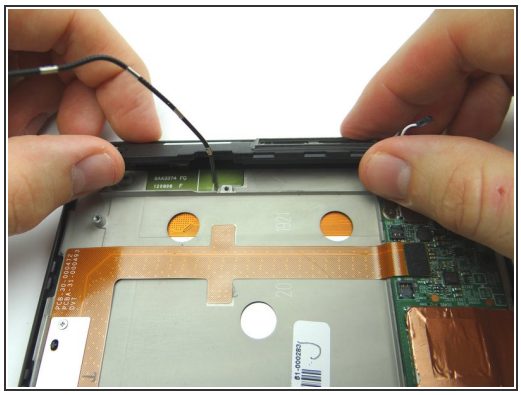
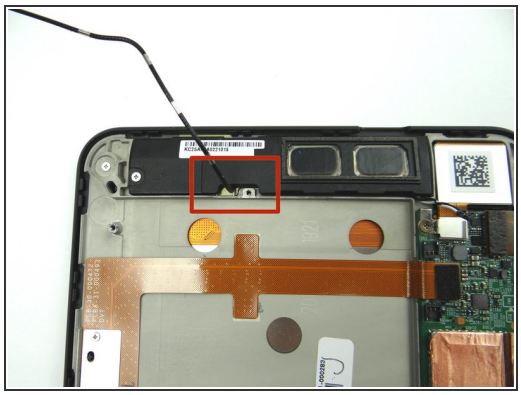
Step 30





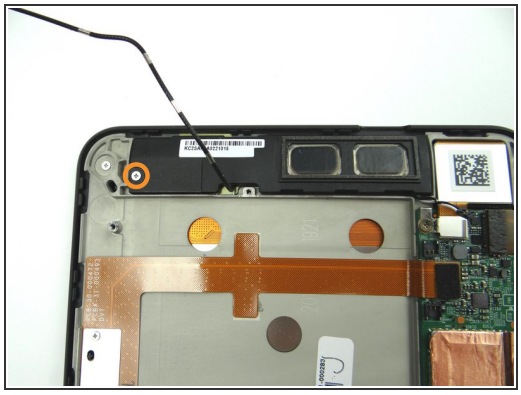
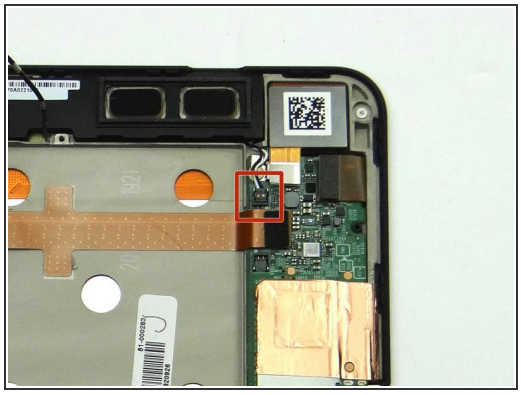
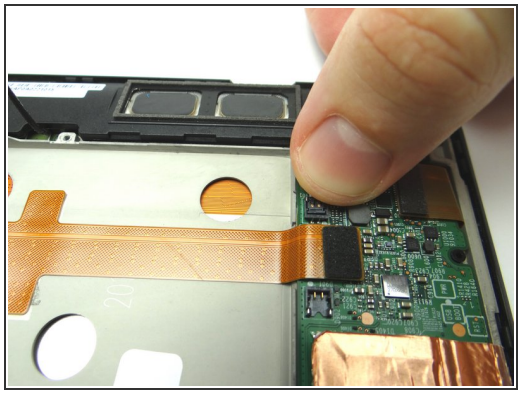
- Push headphone jack connection cable into open ZIF connector.
- Close ZIF connector.

Step 31 — Replacement 3 - Top Speaker

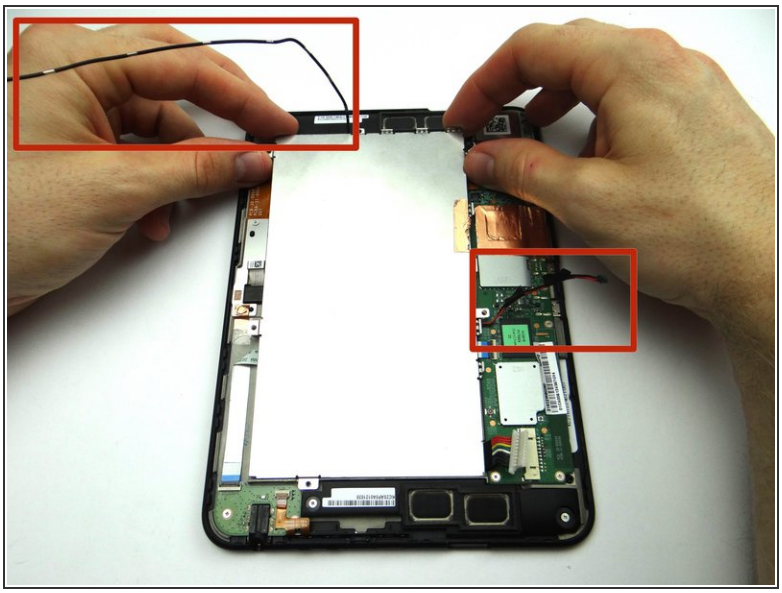
- Seat top speaker from ZONE I.
- Stand the antenna cable up as shown in Picture 3 so it's out of the way when you seat the battery.

Step 32

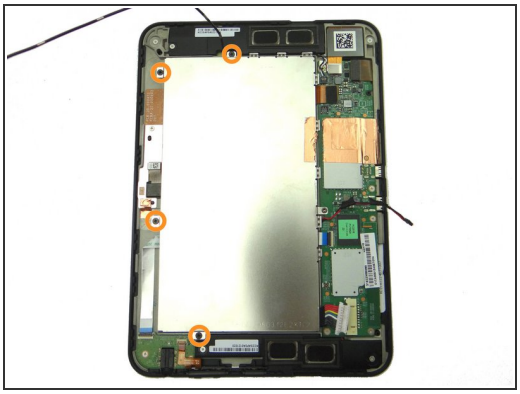
- Picture 1: Replace one 3.1 mm #00 Phillips screw from SLOT 3.
- Pictures 2 & 3: Reconnect speaker cable.

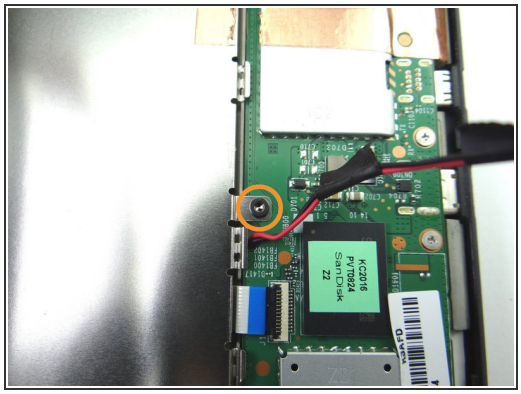
Step 33 — Replacement 2.2 - Replace Battery



- Replace battery from ZONE V. Make sure the antenna cable & lower speaker cable don't get trapped underneath.

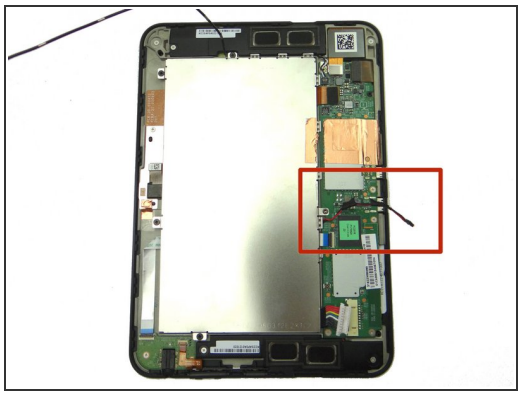
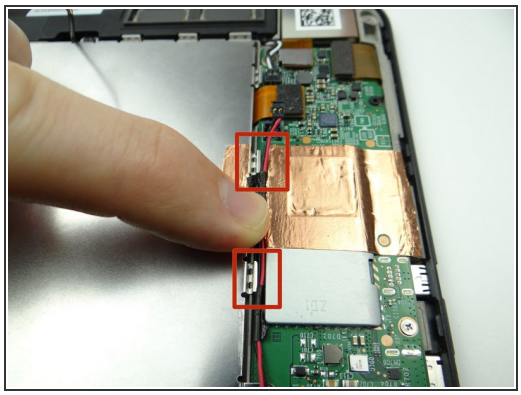
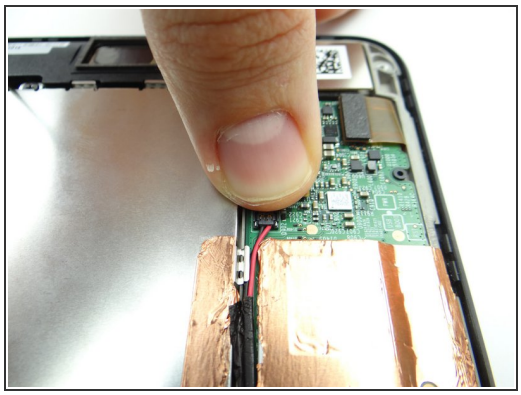
Step 34





- Picture 1: Replace four 2.2 mm #00 Phillips screws from SLOT 2.
- Pictures 2 & 3: Replace one 3.6 mm T5 Torx screw from SLOT 1.

Step 35

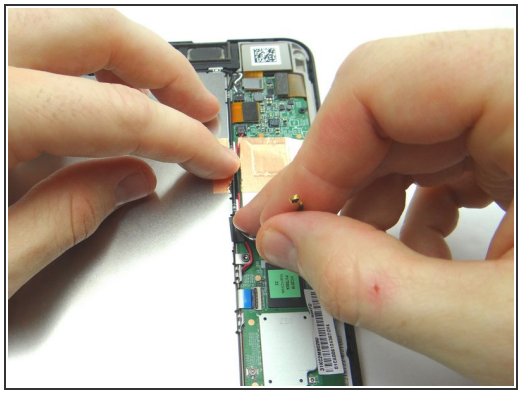
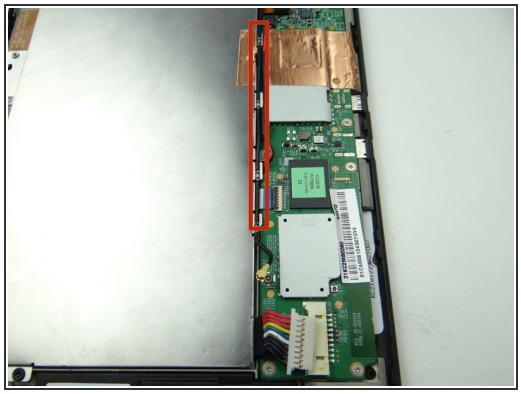
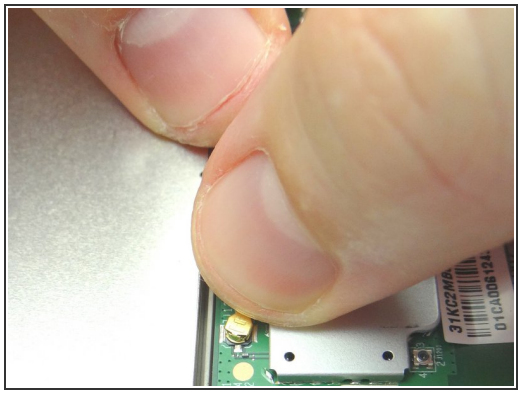




- Picture 1: Shows the speaker cable.
- Picture 2: Seat the cable speaker next to the notches (red squares) on the outside edge of the battery frame.

⚠ Don't tuck the cable under the notches.

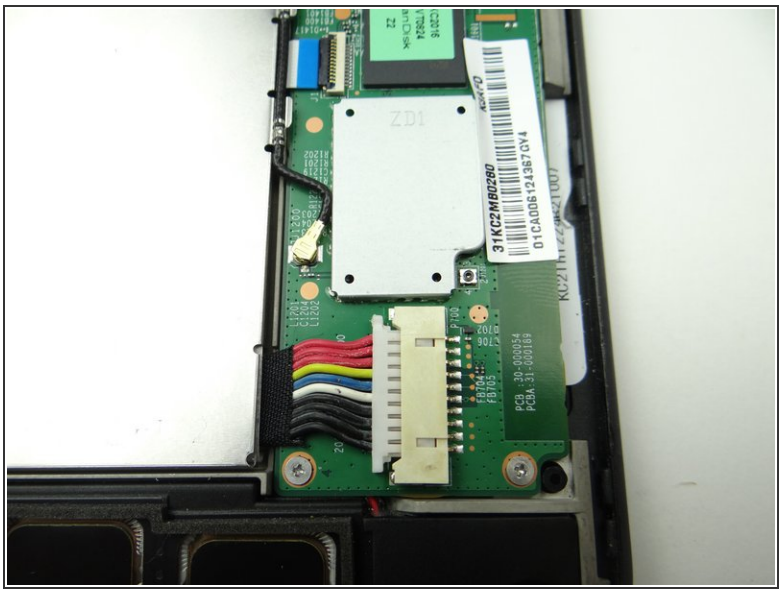
- Picture 3: Seat speaker cable connector.

Step 36

- Pictures 1 & 2: Seat antenna cable in the battery frame notches.
- Picture 3: Connect antenna cable.

Step 37 — Replacement 2.1 - Connect Battery

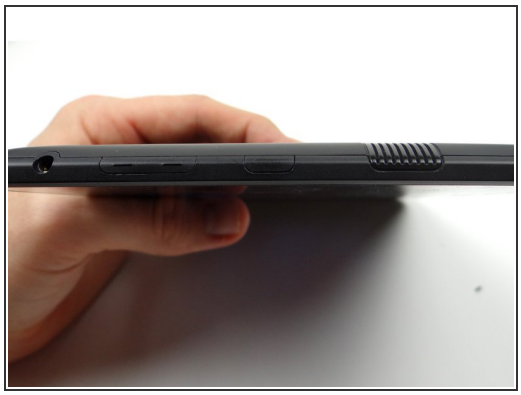


- Picture 1: Push both sides of battery connector evenly into the socket.
- Picture 2: The connector should look like this (cannot see gold contacts) if seated properly.

Step 38 — Replacement 1 - Battery Cover

- Push battery cover back onto Kindle.

Step 39



- Pictures 1 & 2: Check around the edges for gaps between the battery cover and front panel.
- Picture 3: Power up and test device.