



LeapFrog LeapPad2 Explorer Screen Replacement

How to replace your LeapFrog LeapPad2 Explorer's screen.

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INTRODUCTION

If your LeapFrog LeapPad2 Explorer screen is cracked or damaged, follow this guide to replace it. Be sure to power off the device prior to beginning the guide.

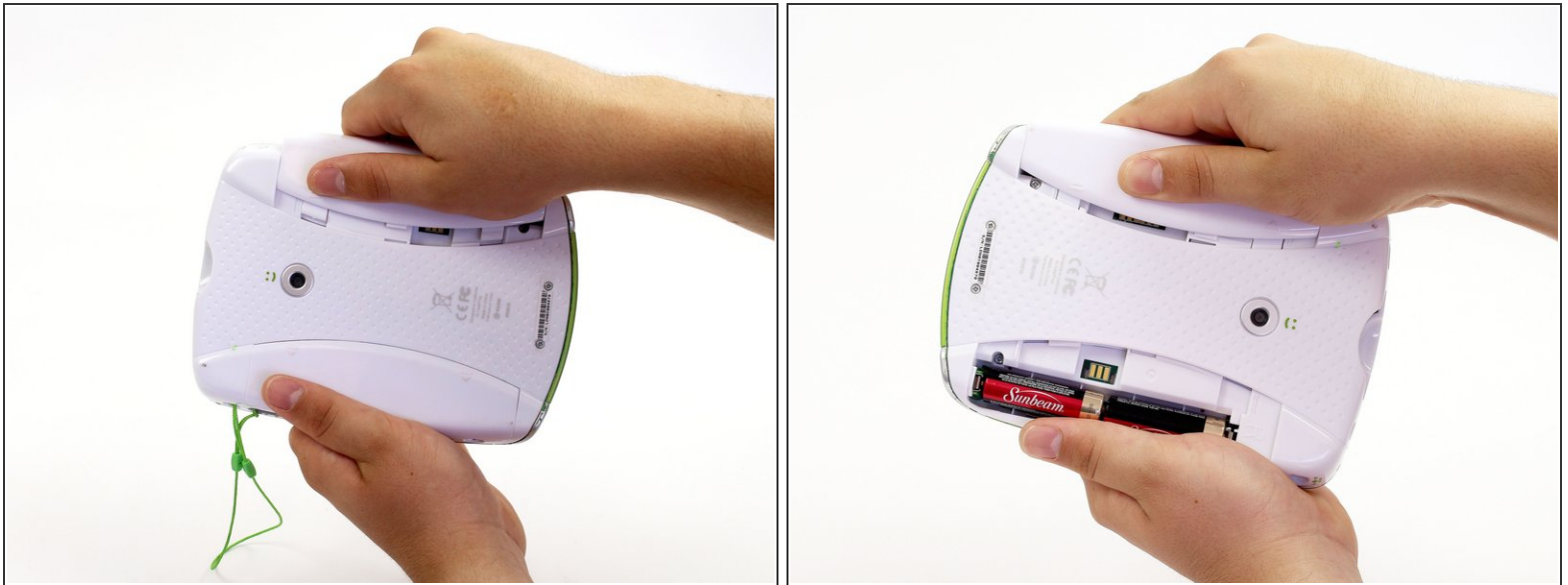
This guide will require [soldering](#) equipment and skill.



TOOLS:

- [iFixit Opening Tool](#) (1)
 - [Soldering Workstation](#) (1)
 - [Safety Glasses](#) (1)
 - [Phillips #00 Screwdriver](#) (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.

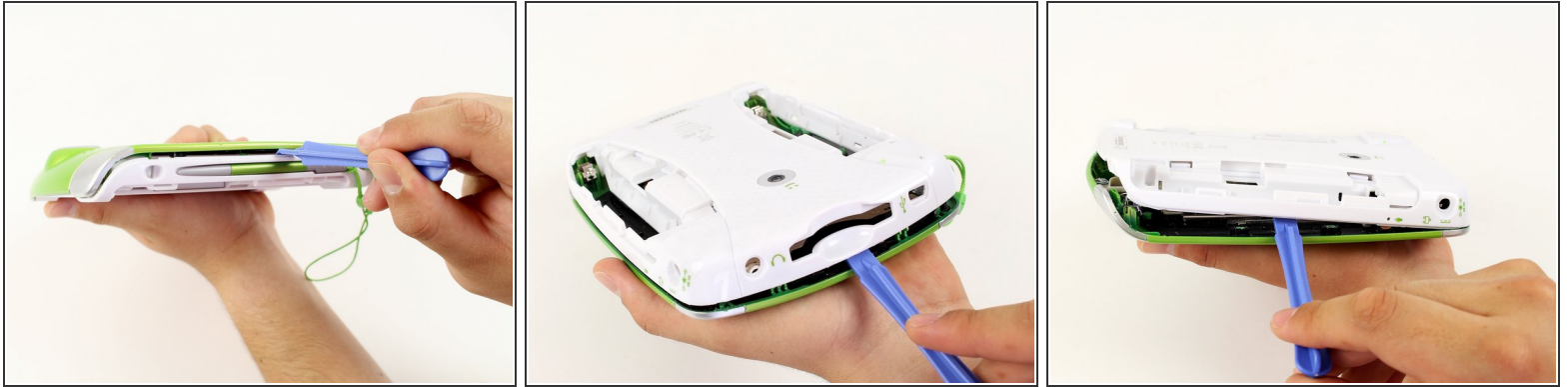
Step 3 — Back Cover




 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



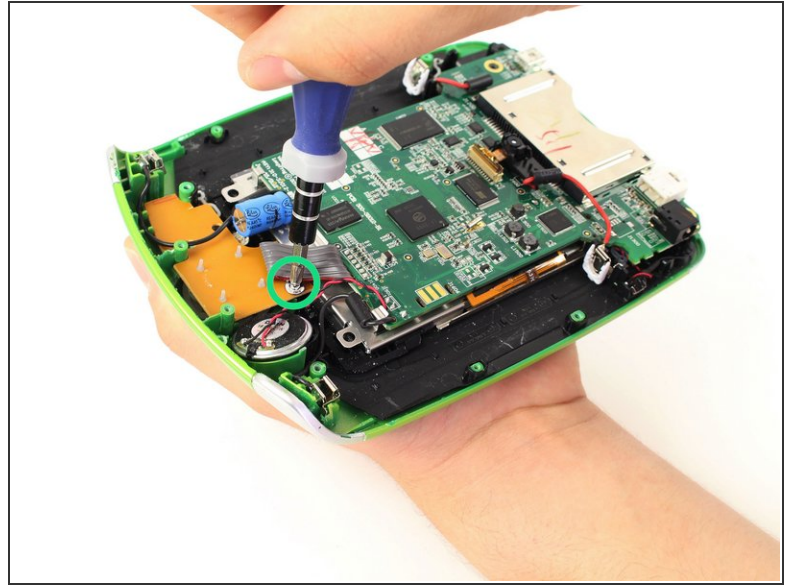
- Insert a plastic opening tool into the seam between the front and rear covers to detach the back cover from the rest of the device.
 - Move the plastic opening tool around the perimeter of the LeapPad2.
 - Lift up and remove the rear case from the tablet.
-  A butter knife can help when prying the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

Step 5 — Front Cover



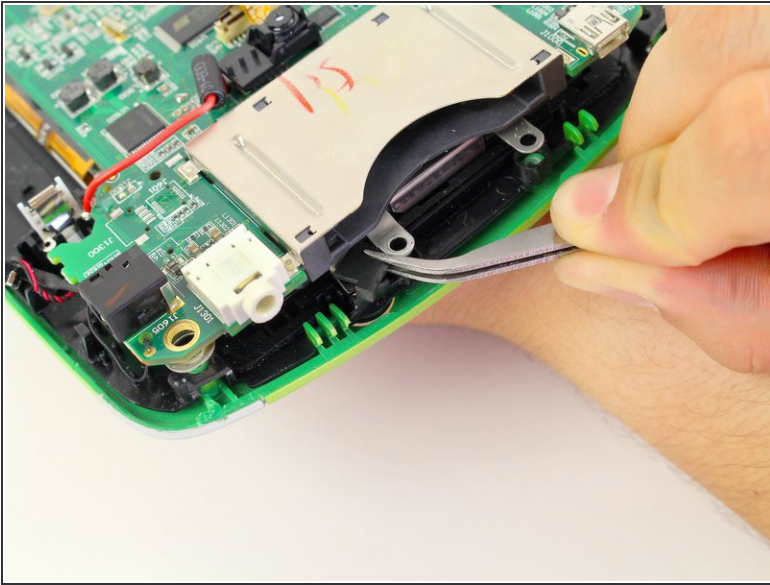
- Remove the following screws securing the front cover to the main device:
 - Three 6.0 mm Phillips screws
 - Three 7.0 mm Phillips screws
 - Two 10.0 mm Phillips screws
 - Three 7.0 mm Phillips screws (bulkier screw head than other 7.0 mm Phillips screws)
- ⓘ The white plastic component holding the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

Step 6



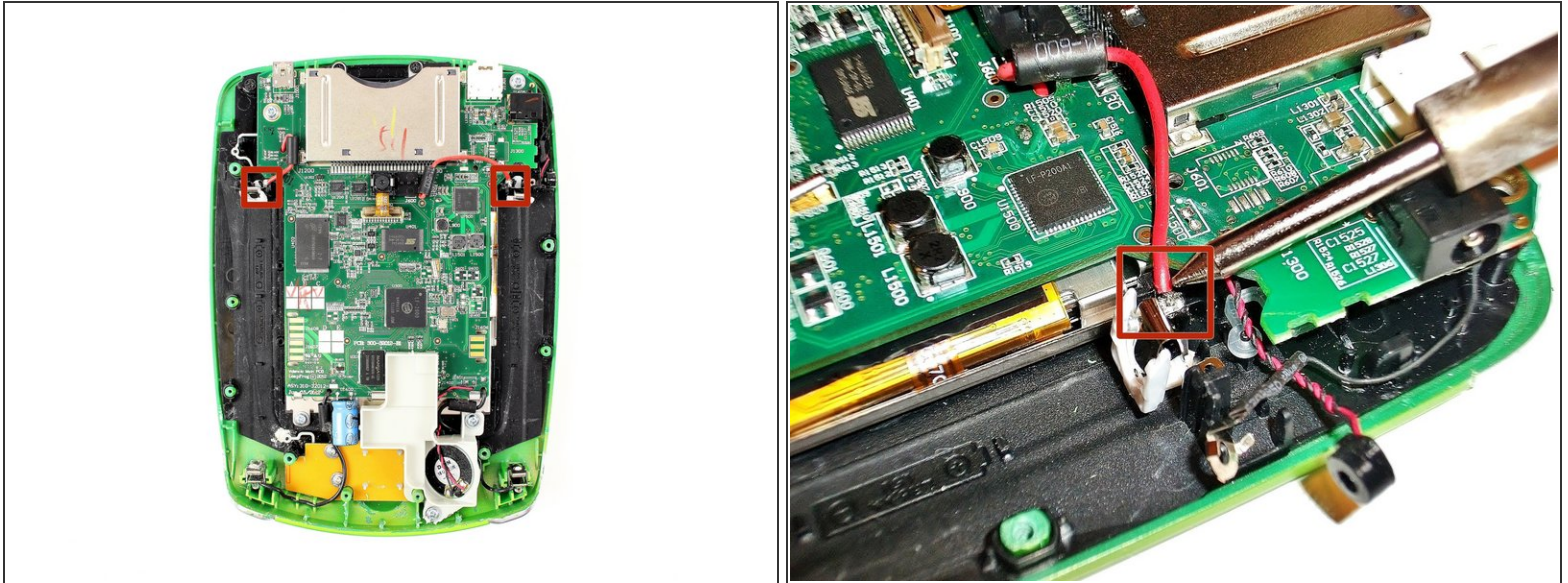
- Unscrew the white plastic piece to expose the third 7.0 mm Phillips screw mentioned.

Step 7



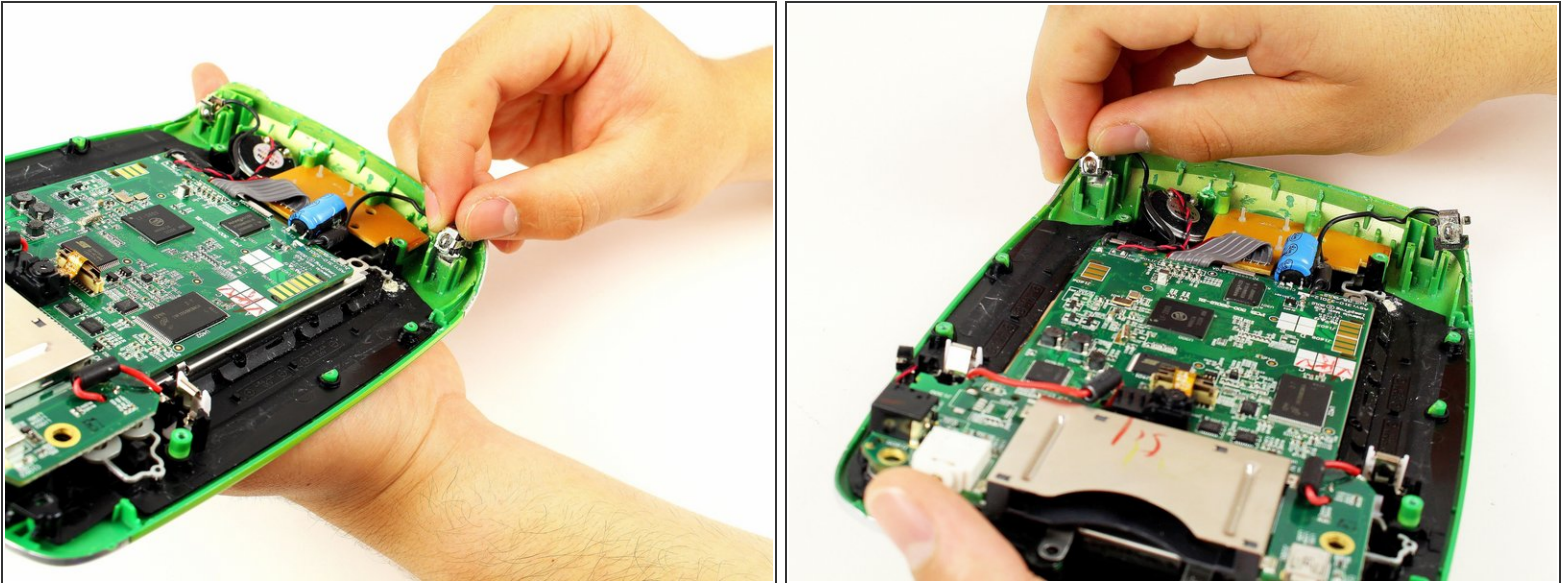
- When unscrewing the game cartridge screws, you will find a loose black plastic component underneath the game cartridge.
- Use tweezers to remove the piece.
- ☑ In case the piece falls out unexpectedly, refer to this step to make sure you put this piece back in place during the reassembly of your device.

Step 8



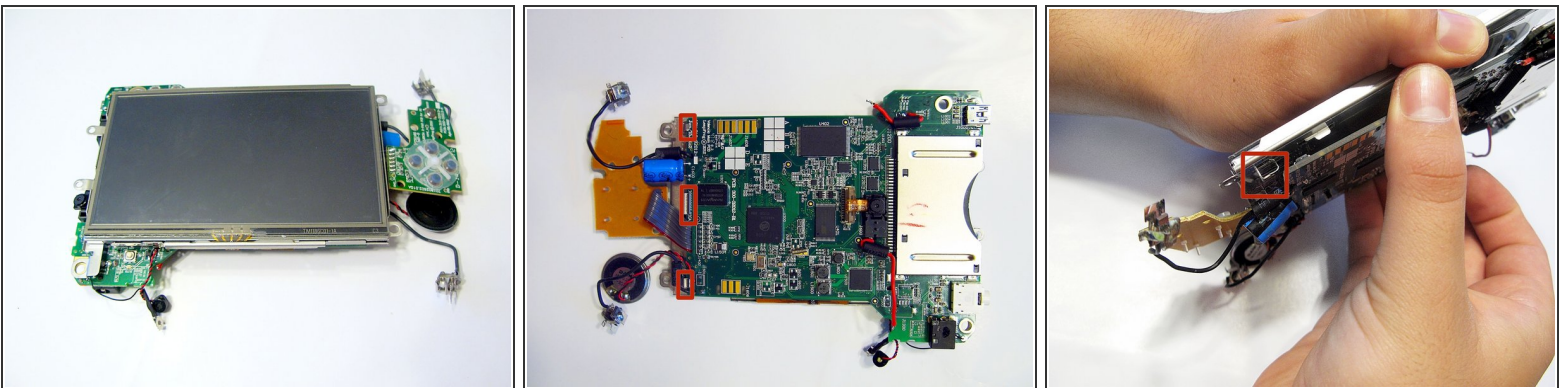
- Desolder the through hole-components in power plugs on both sides of the device where the batteries were once connected.
- ⓘ Do not refer to the pictures in this step for correct soldering and de-soldering techniques. They are solely for illustration purposes.
- ⓘ For proper soldering and desoldering 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.

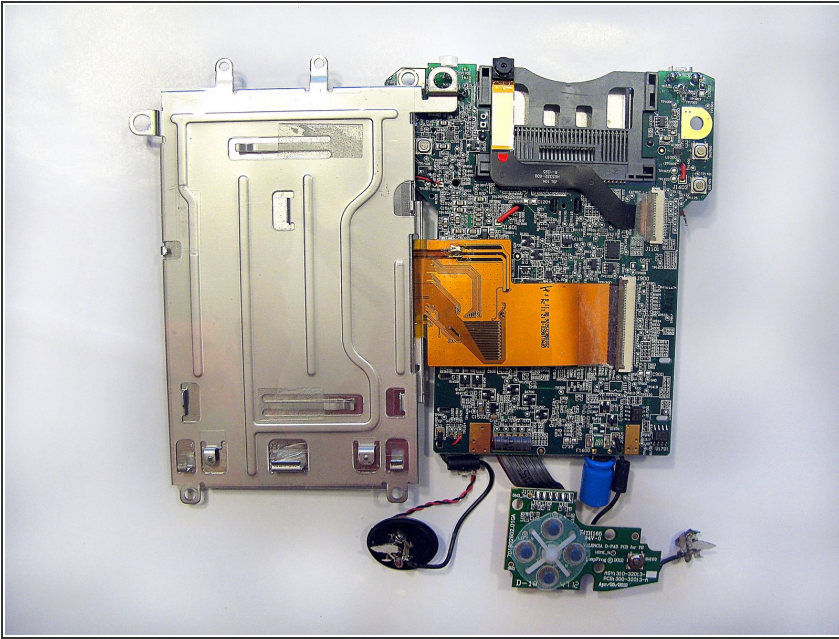
Step 10 — Screen



- Lift the screen from the motherboard by pushing the board out from the three metal tabs.

⚠ Do not be too aggressive when separating the components, as the parts are still connected.

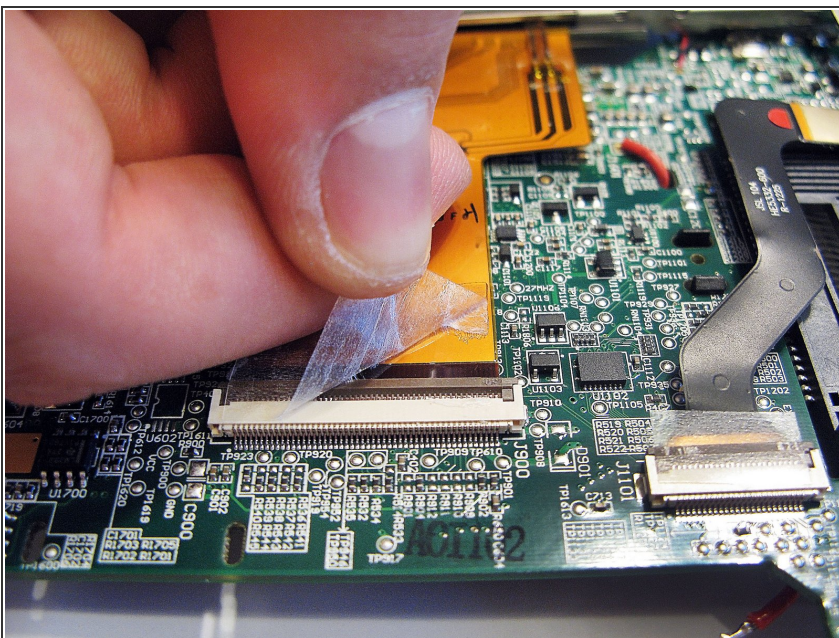
Step 11



- Fold screen away from the motherboard along the yellow ribbon, lay the device's components flat open like a book.

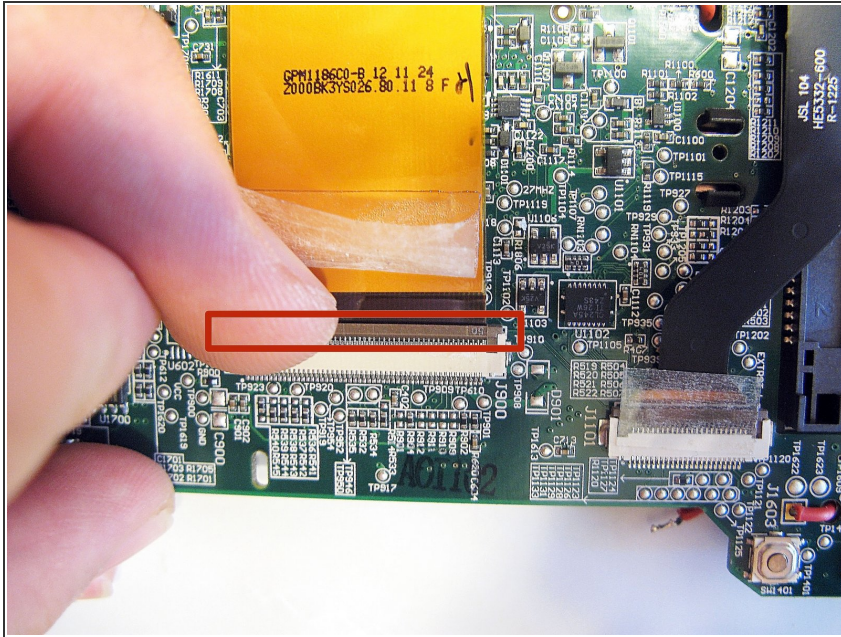
⚠ Do not be too aggressive when separating the components, as the parts are still connected.

Step 12



- Gently remove the tape covering the yellow ribbon connecting screen to motherboard.

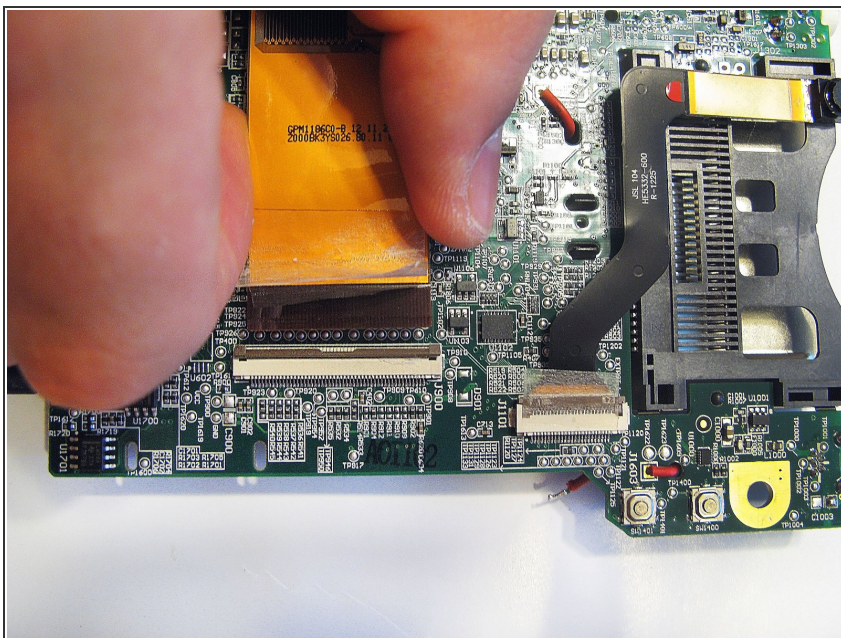
Step 13



- To safely remove yellow ribbon, lift up the retaining flap.

⚠ Removing or reinserting the cable by brute force could damage it.

Step 14



- Pull the yellow ribbon towards the screen to disconnect the screen from the socket on the motherboard.
- ⓘ If the flap is up, as show in the picture, no force should be required to remove the cable.

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