



LeapFrog LeapPad2 Explorer Screen Replacement

Replace your LeapPad's screen.

Written By: Nupur Garg



INTRODUCTION

If a cracked or unresponsive screen is ruining your day, we are here to help!

This guide will require soldering equipment and skill.

TOOLS:

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

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.

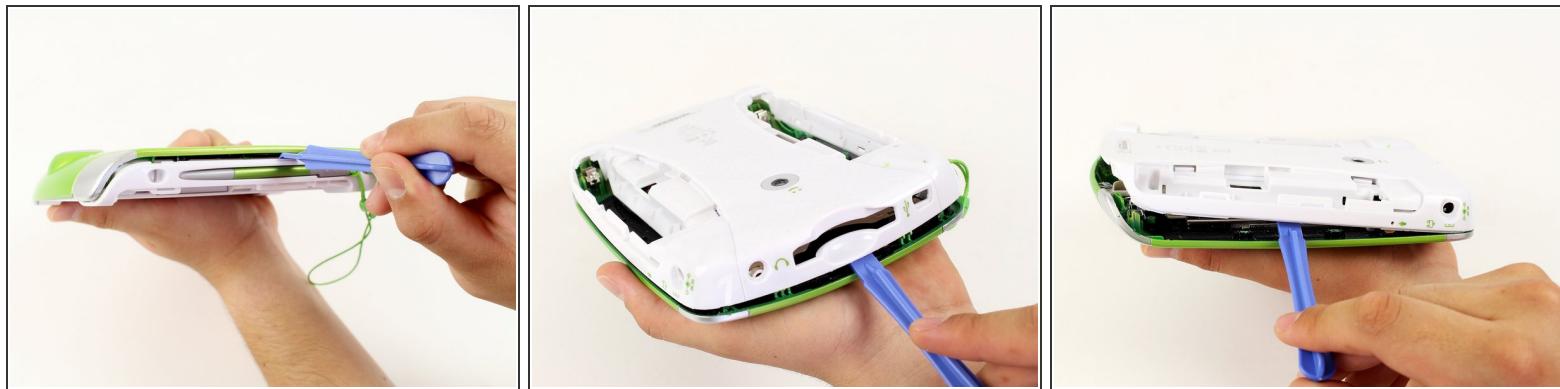
Step 3 — Back Cover



⚠ 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

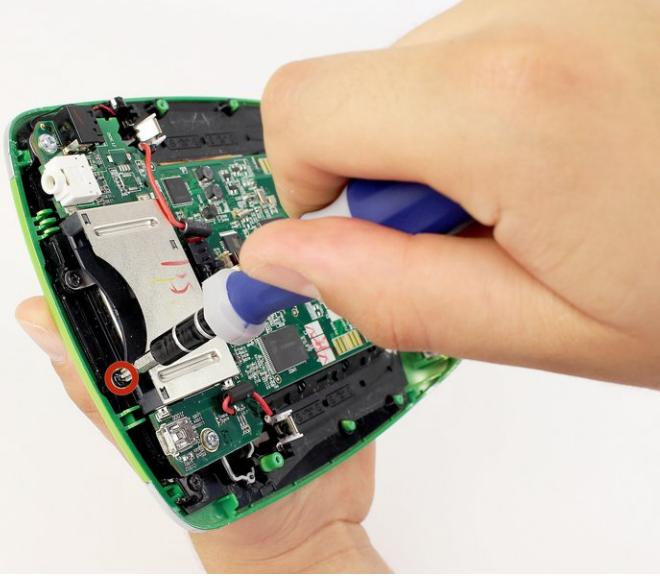
Step 4



- 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.

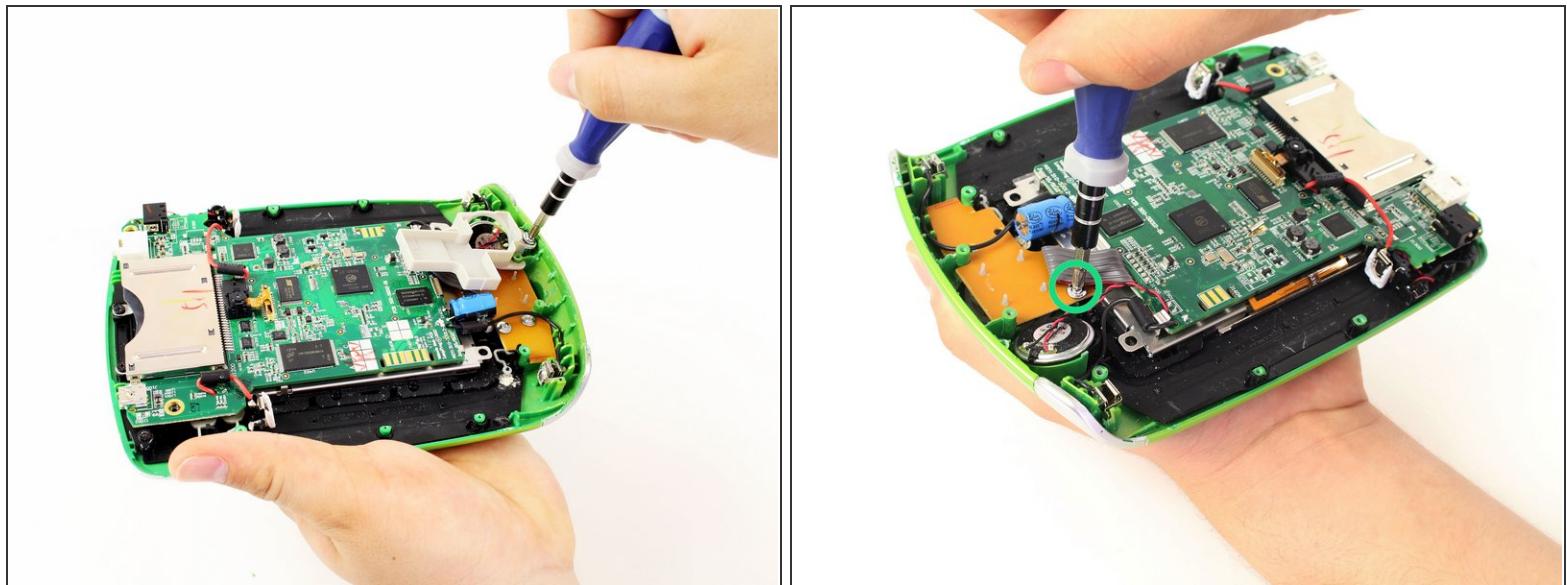
(i) A butter knife can help when prying the device.

Step 5 — Front Cover



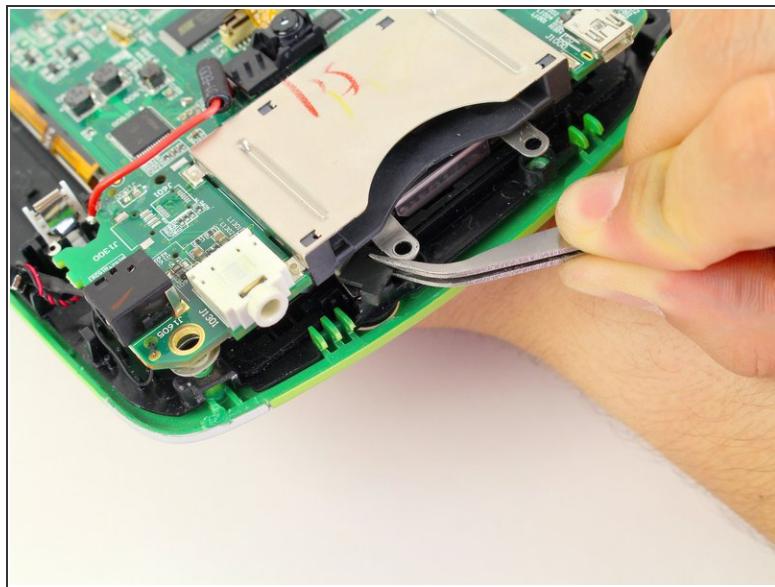
- Remove the following screws securing the front cover to the main device:
 - Three 6.0 mm Phillips screws
 - Three 7.0 mm Phillips screws
 - Two 10.0 mm Phillips screws
 - Three 7.0 mm Phillips screws (bulkier screw head than other 7.0 mm Phillips screws)
- *(i)* The white plastic component holding 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.

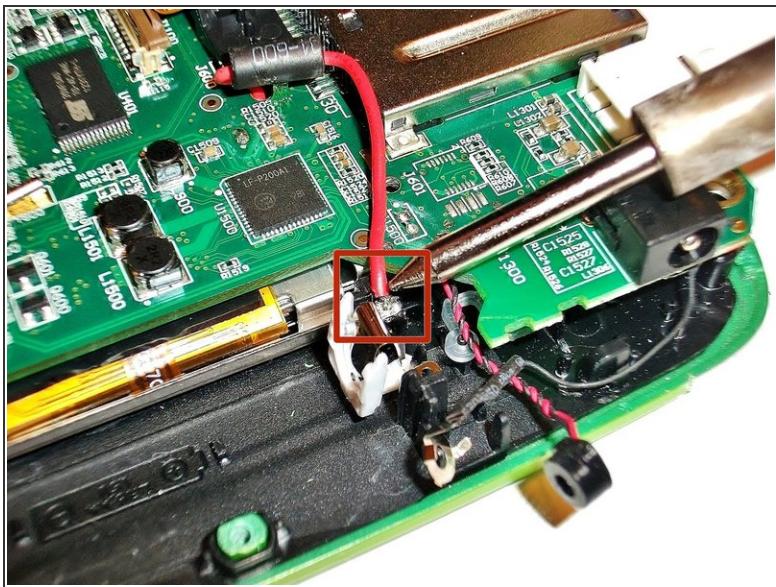
Step 7



- 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

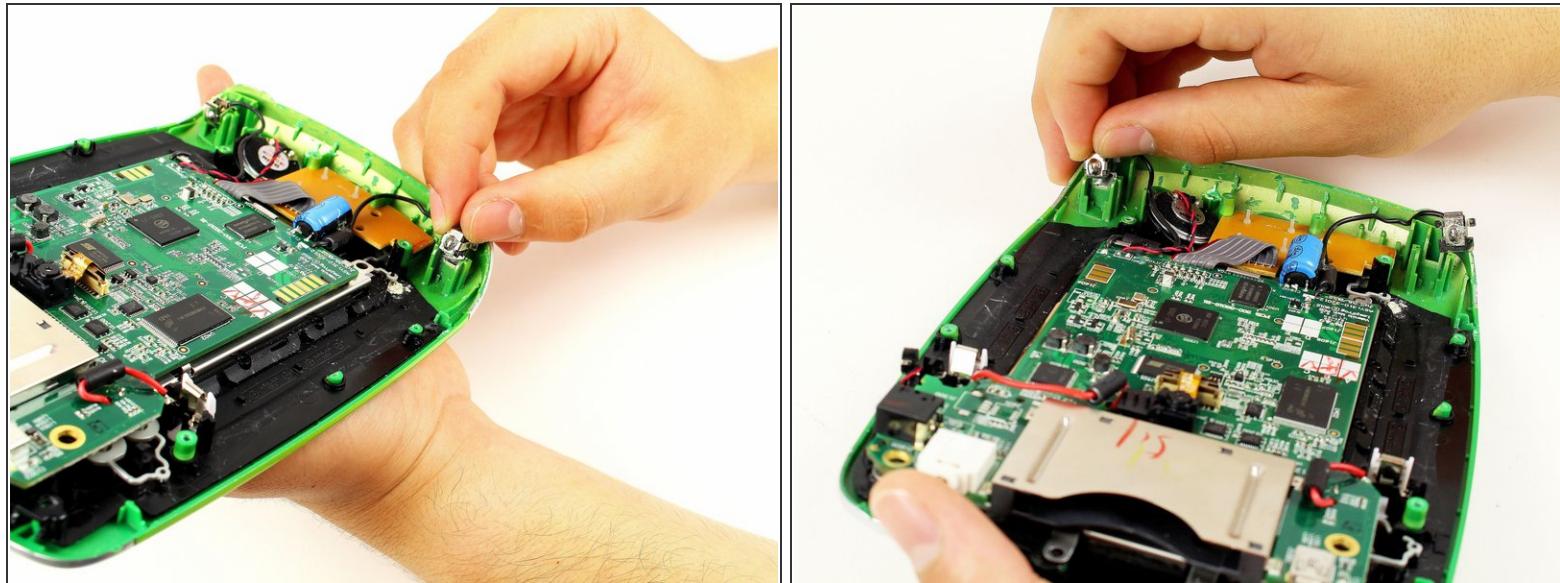


- Desolder the through hole-components in power plugs on both sides of the device where the batteries were once connected.
- Do not refer to the pictures in this step for correct soldering and de-soldering techniques. They are solely for illustration purposes.
- For proper soldering and desoldering techniques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

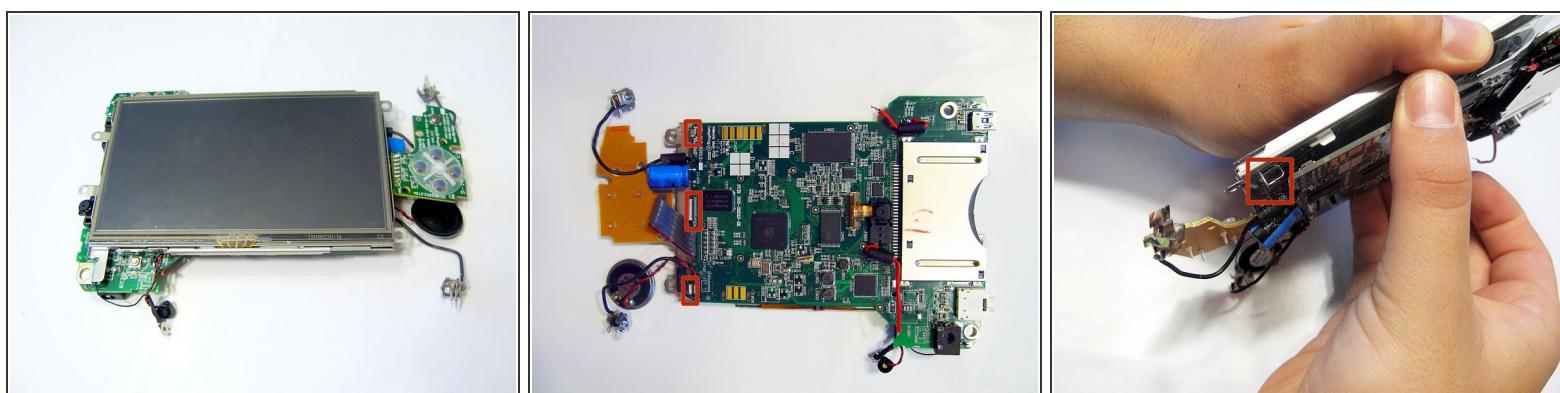
⚠ Be extremely careful with the cables in this step as they could melt, burn, or break.

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.

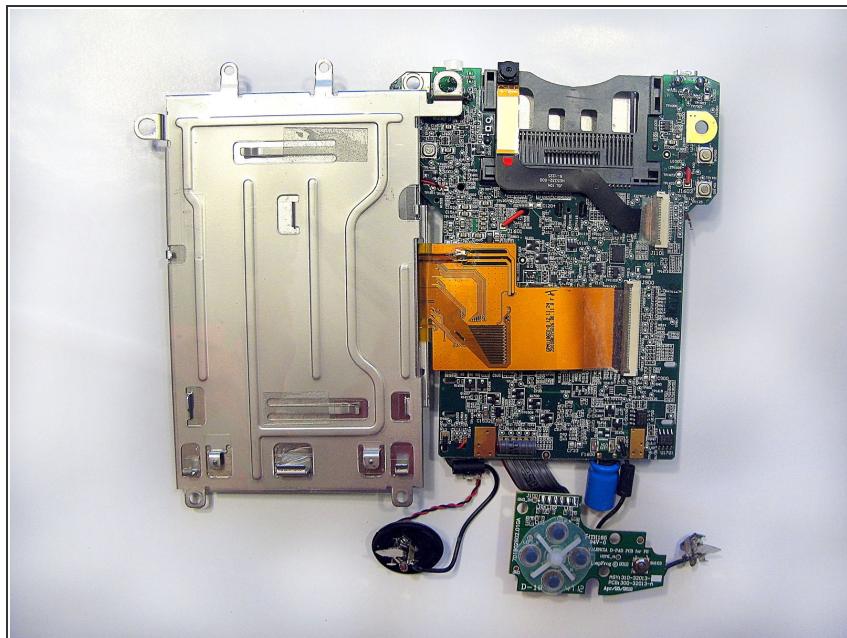
Step 10 — Screen



- 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.

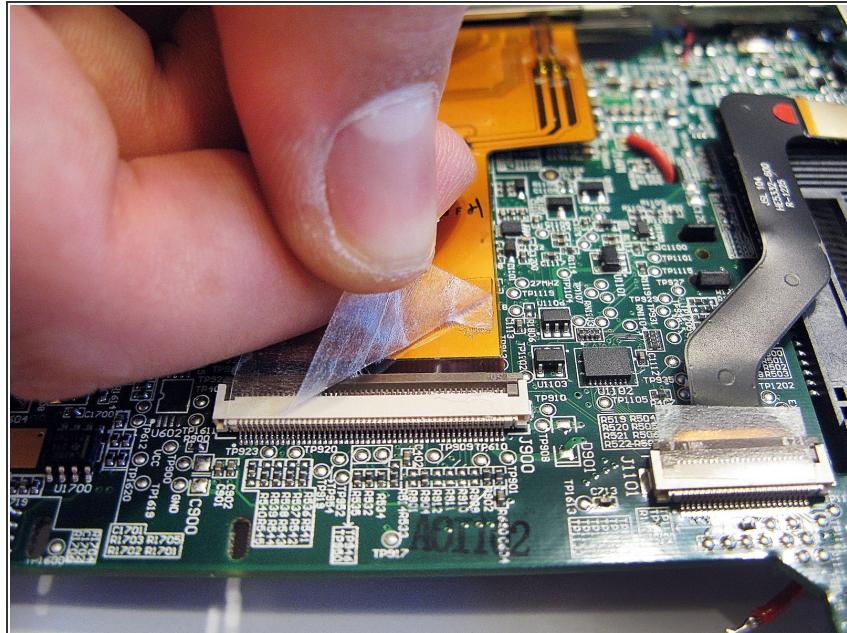
Step 11



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

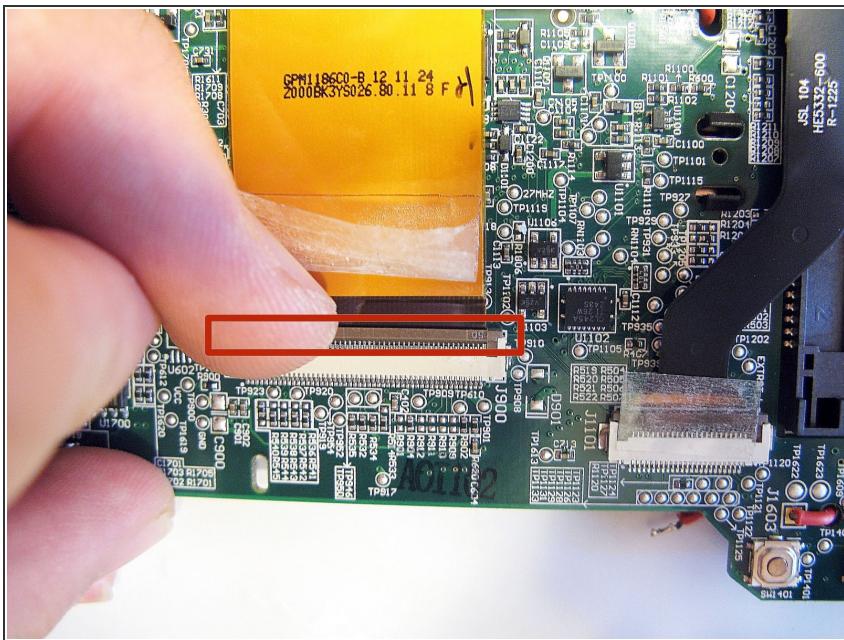
 Do not be too aggressive when separating the components, as the parts are still connected.

Step 12



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

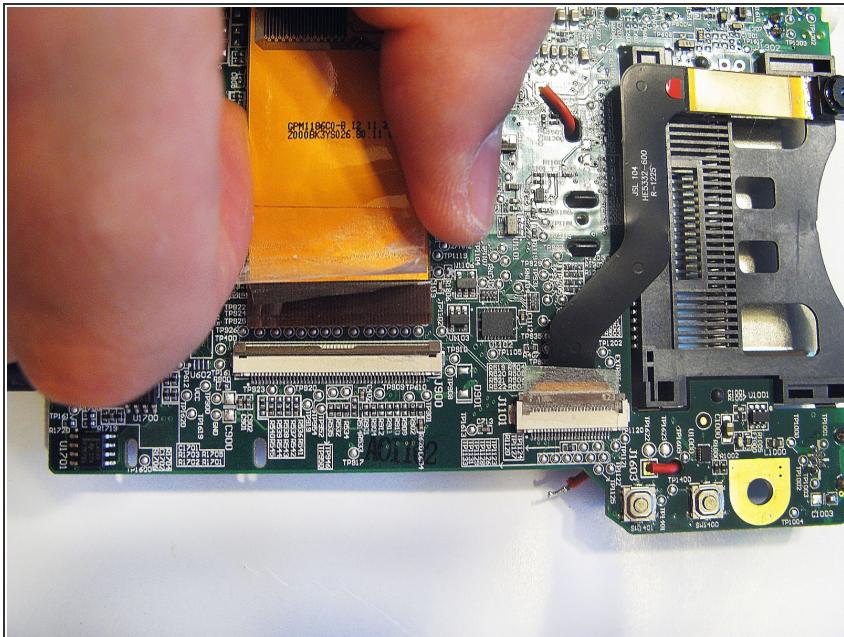
Step 13



- 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 shown in the picture, no force should be required to remove the cable.

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