Nintendo DSi XL Hinges Replacement

Written By: Dozuki System



INTRODUCTION

Make your display stand up straight by replacing the hinges in your DSi XL.

TOOLS:

- Phillips #00 Screwdriver (1)
- Spudger (1)

PARTS:

- Nintendo DSi XL Hinges (1)

© 2020

Step 1 — Nintendo DSi XL Hinges Replacement





- Remove the two Phillips screws securing the battery cover to the back of the handheld console.
- Lift the battery cover off the back of the DSi XL.

Step 2



- Lift the battery from the DSi XL.

Step 3

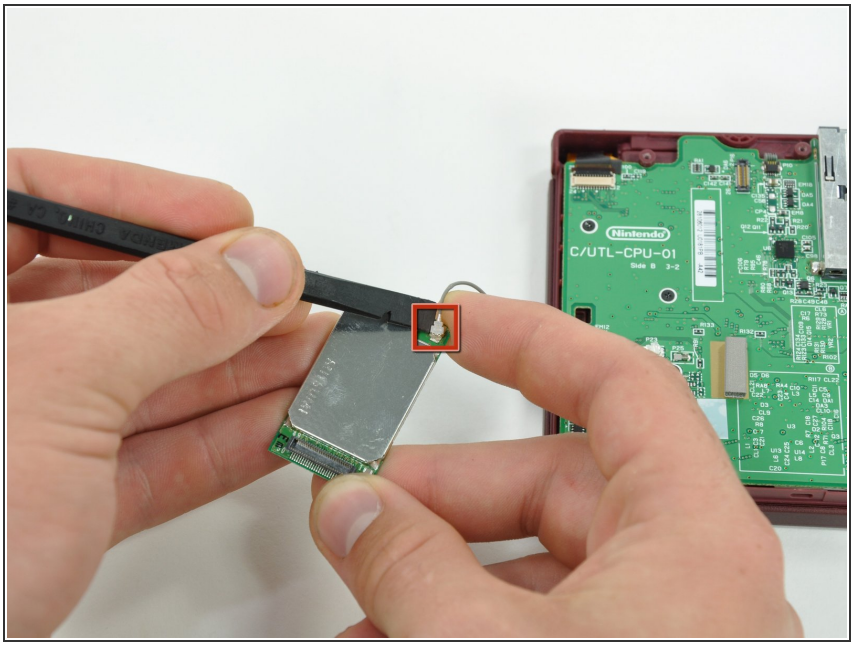




- Lift the Wi-Fi board up off its socket on the motherboard.

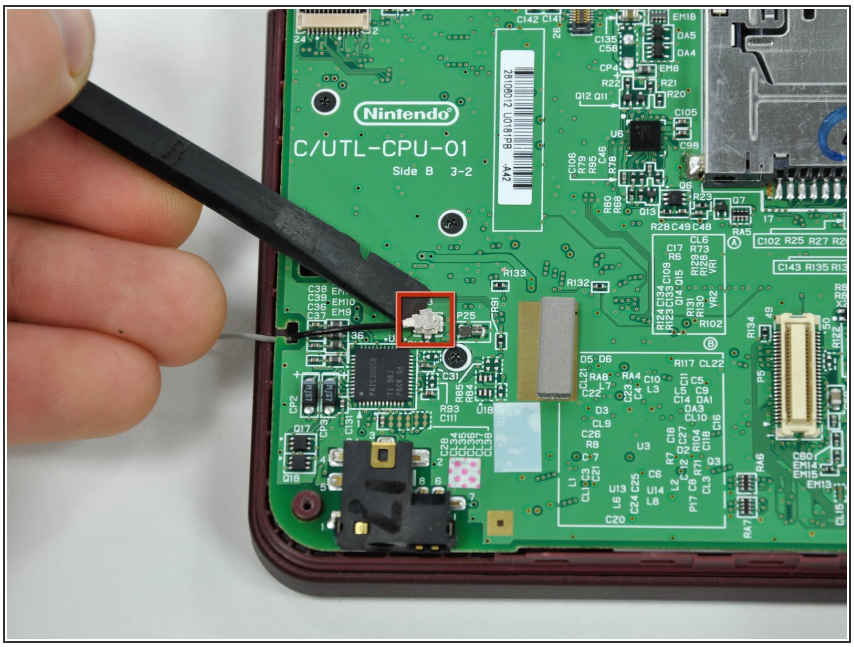
⚠ Do not attempt to completely remove the Wi-Fi board yet. It is attached to the motherboard by an antenna cable.

Step 4



- Use a spudger to pry the Wi-Fi cable off its socket on the underside of the Wi-Fi board.

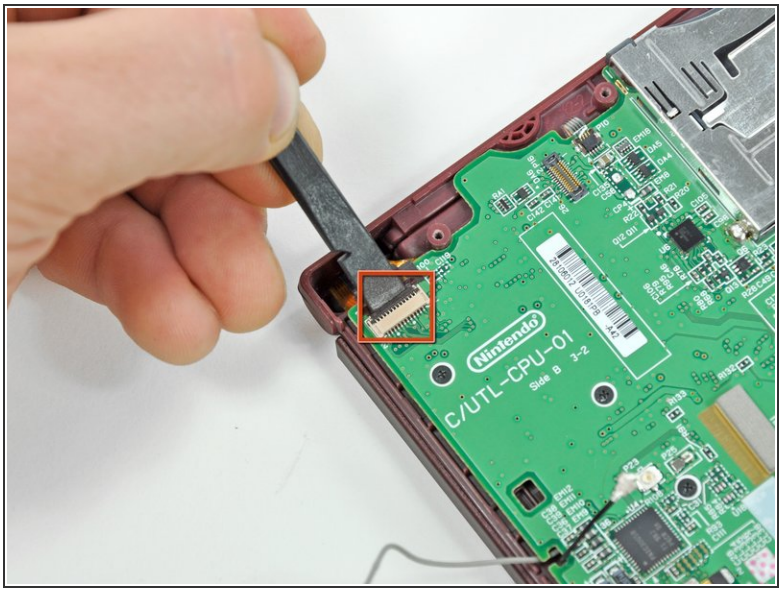
Step 5

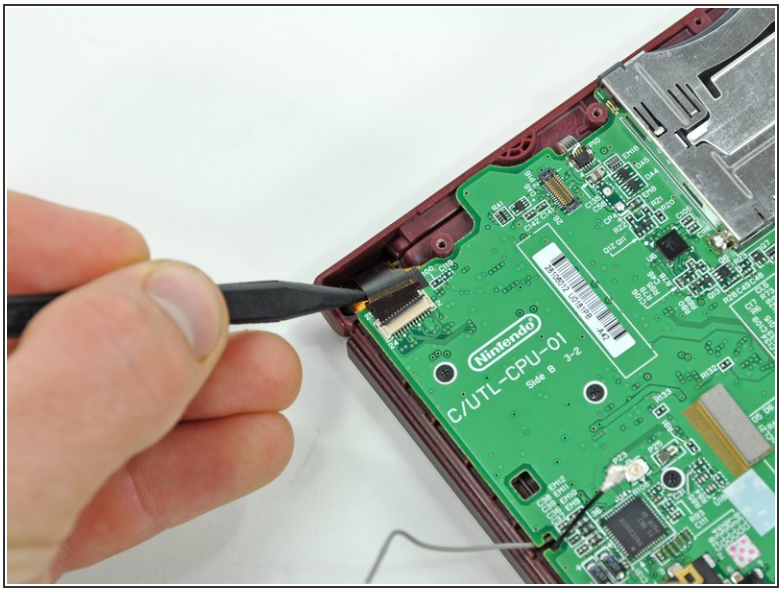


- Use a spudger to pry the microphone cable off the motherboard.

Pry from underneath the cable.

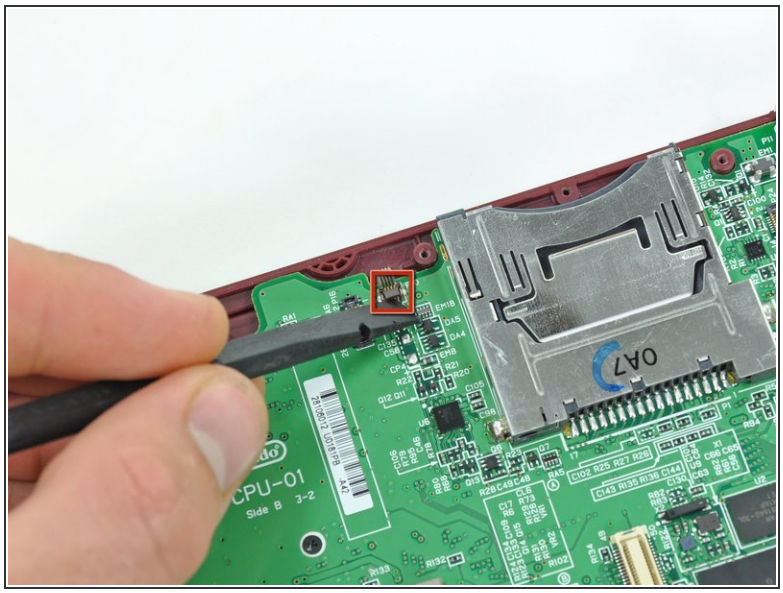
Step 6

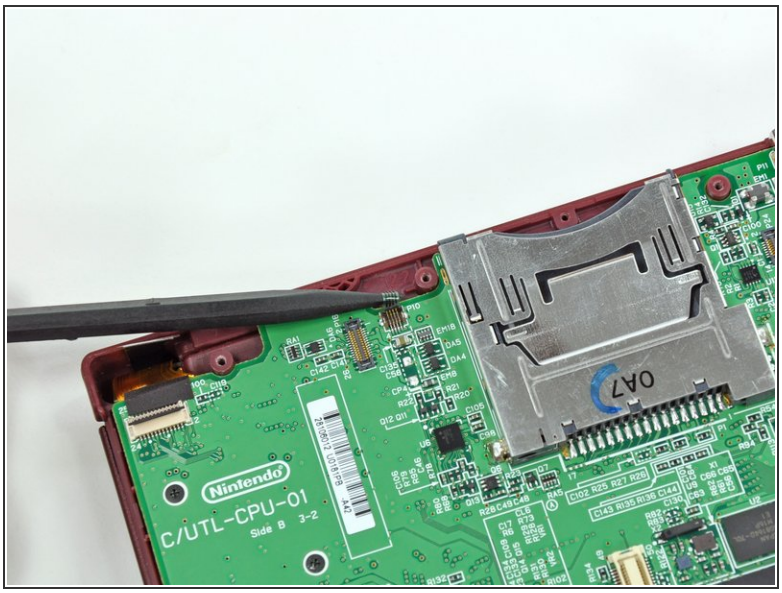




- Using the flat end of a spudger, flip up the retaining flap on the camera ribbon ZIF connector.
- Use the pointed end of a spudger to pull the camera ribbon from the ZIF connector.

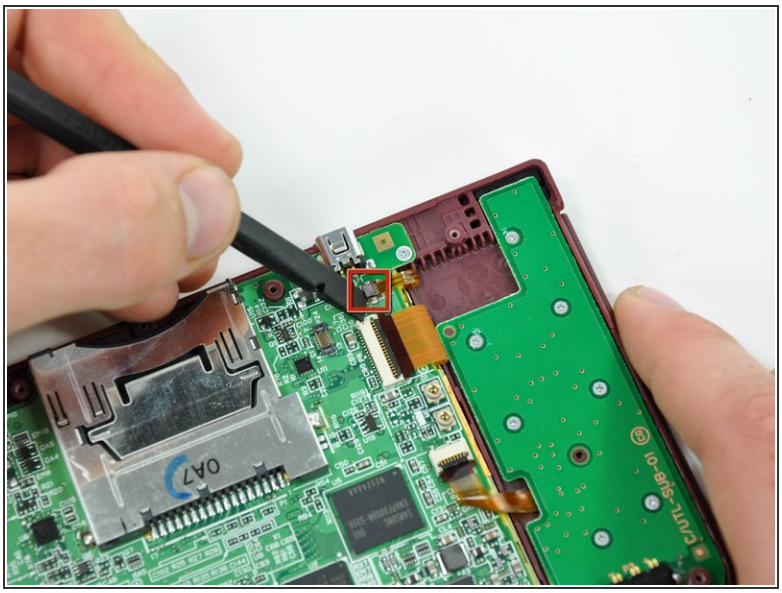
Step 7

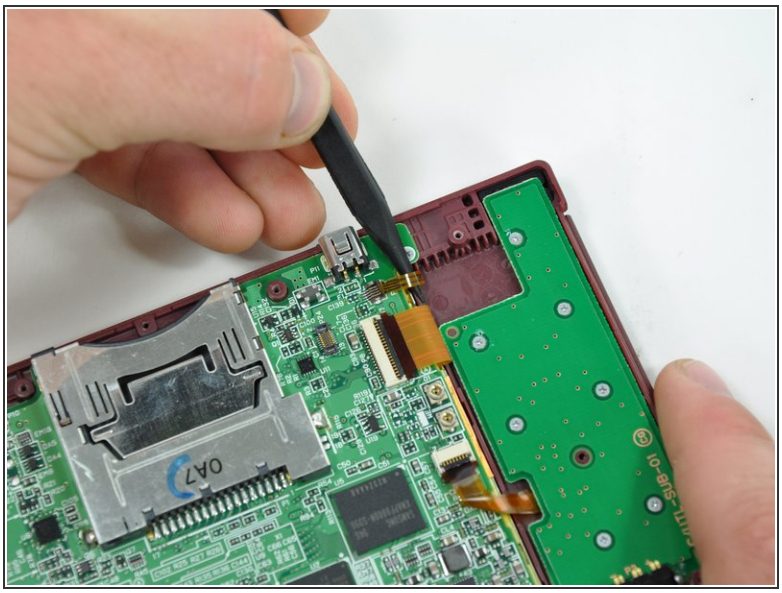




- Using the flat end of a spudger, flip up the retaining flap on the touchscreen cable ZIF connector.
- With the pointed end of the spudger, pull the touchscreen cable from its connector on the motherboard.

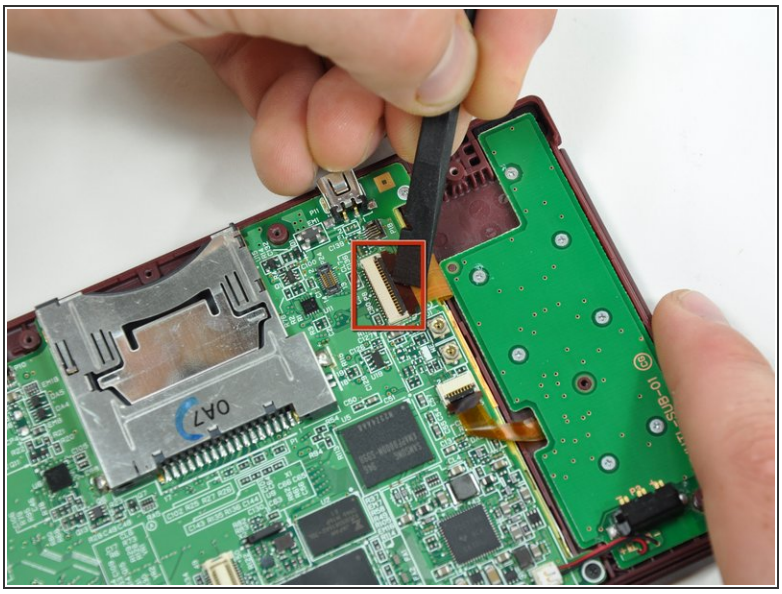
Step 8

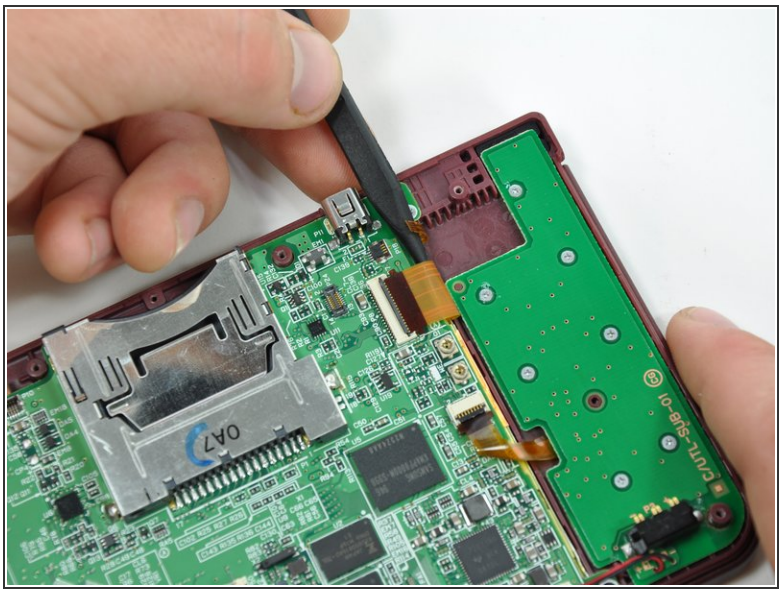




- Using the flat end of a spudger, flip up the retaining flap on the backlight cable ZIF connector.
- With the pointed end of the spudger, pull the backlight cable from its connector on the motherboard.

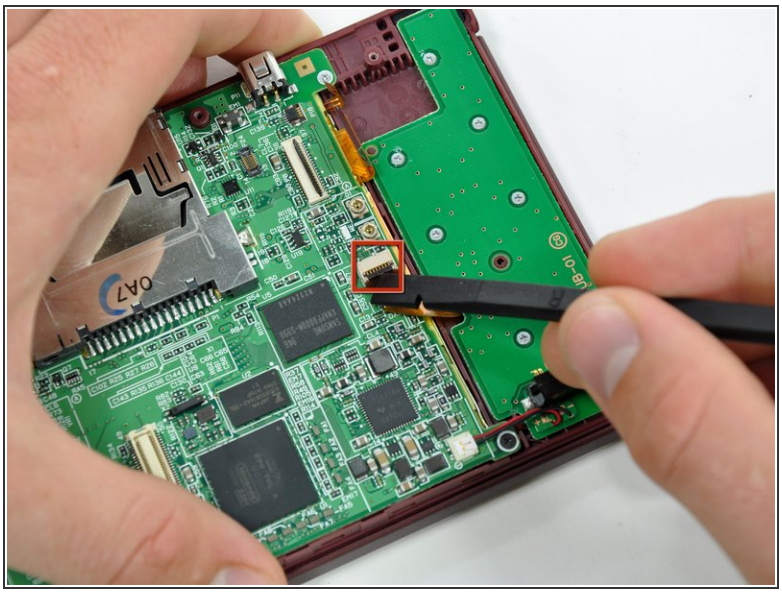
Step 9

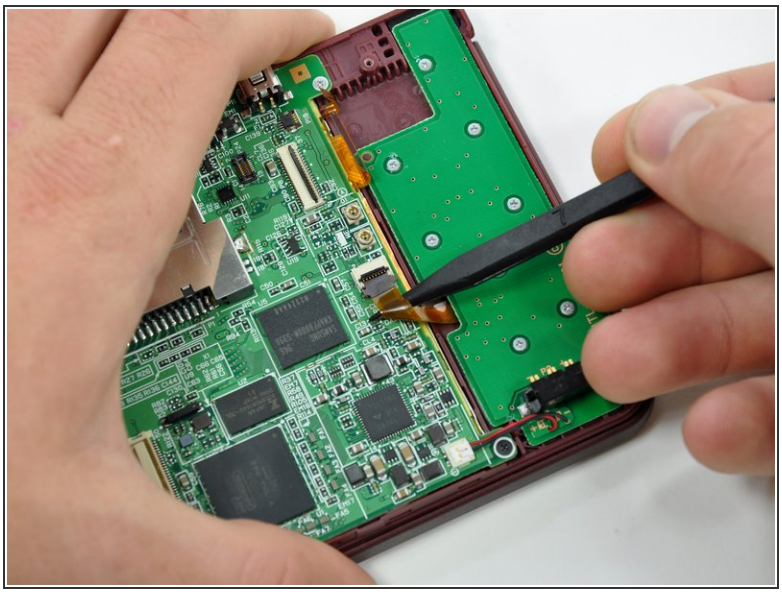




- Using the flat end of a spudger, flip up the retaining flap on the lower display data cable ZIF connector.
- With the pointed end of the spudger, pull the lower display data cable from its connector on the motherboard.

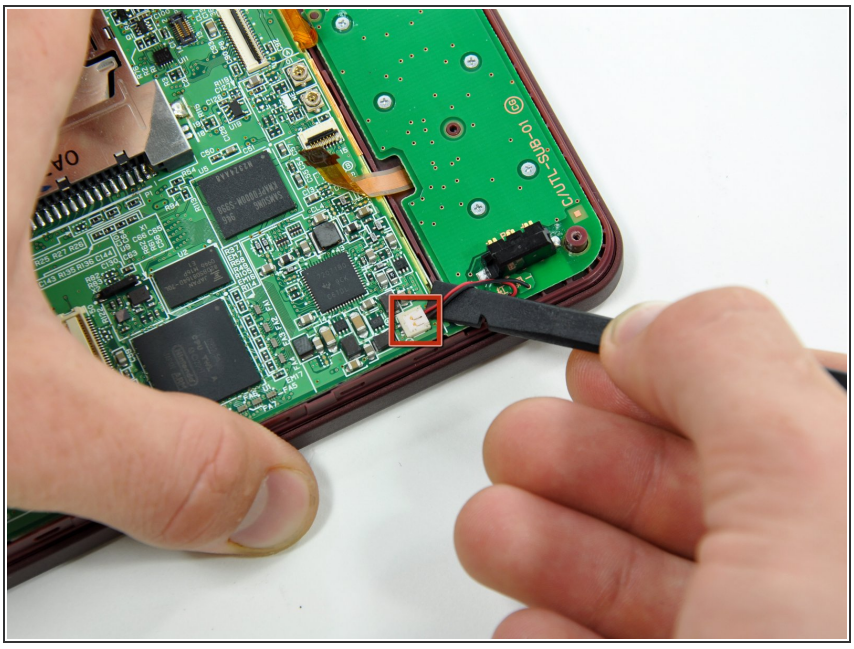
Step 10





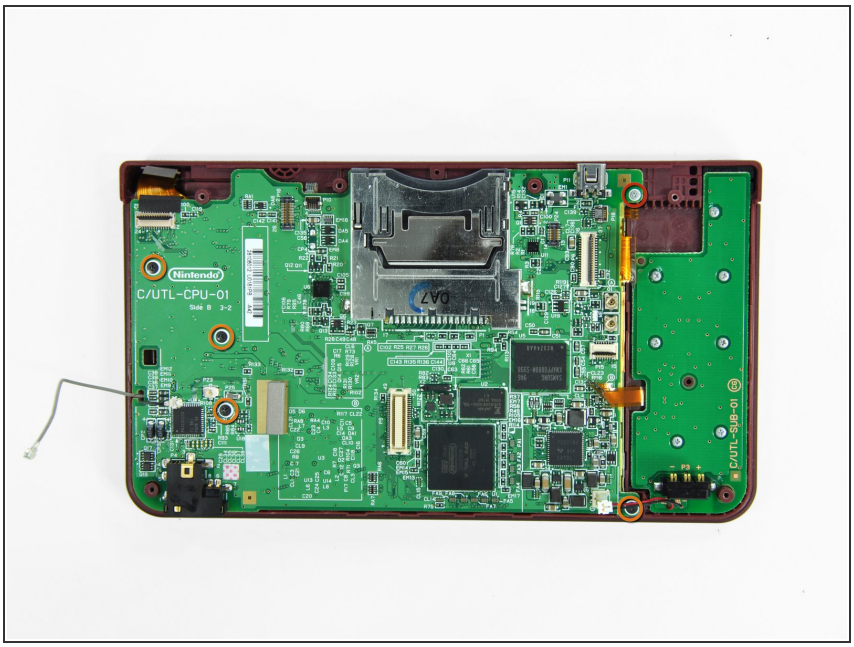
- Using the flat end of a spudger, flip up the retaining flap on the ZIF connector for the D-Pad/power button cable.
- With the pointed end of the spudger, pull the D-Pad/power button cable from its connector on the motherboard.

Step 11



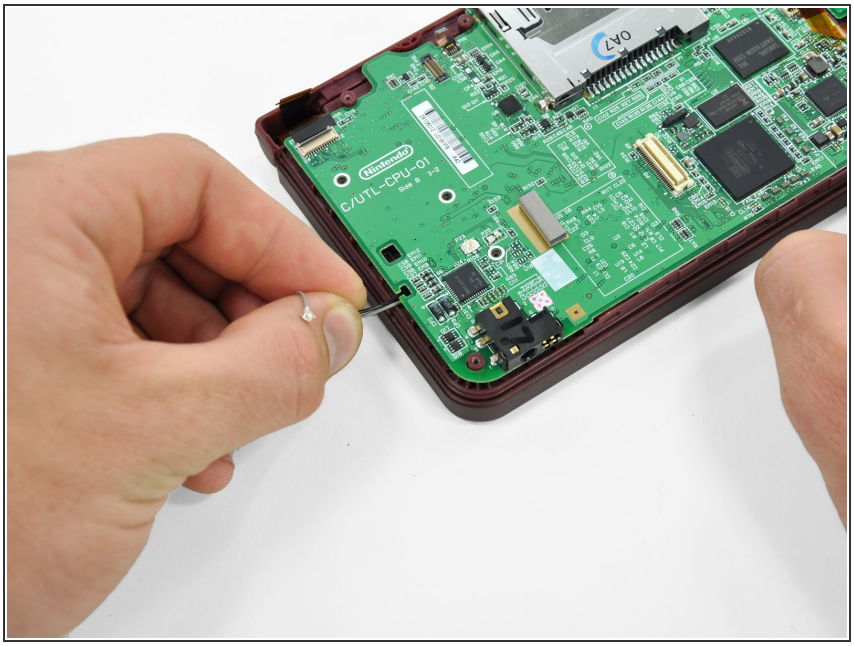
- Using the flat end of the spudger, pry the battery cable up off its socket on the motherboard.

Step 12



- Remove the screws securing the motherboard to the upper case:
  - A single 2.5 mm silver Phillips screw
  - Four 3.7 mm black Phillips screws

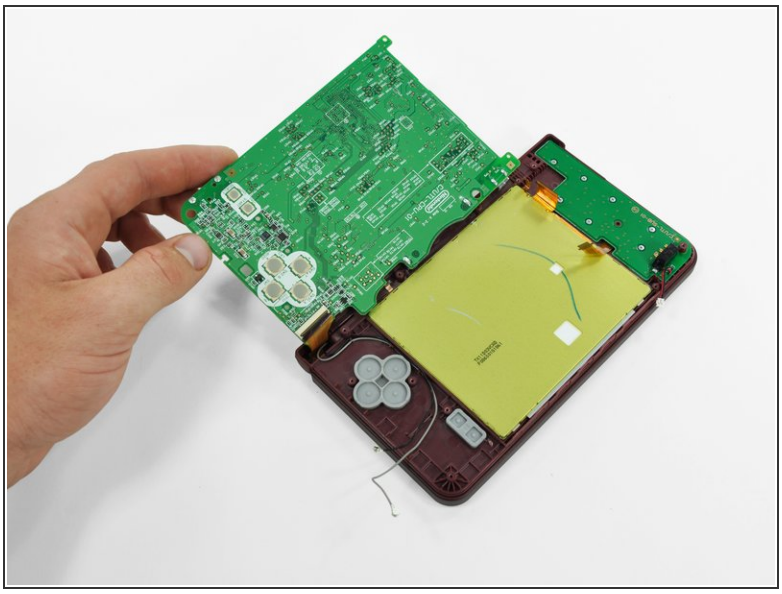
Step 13



- Deroute the microphone and antenna cables through the slot in the motherboard.

Step 14

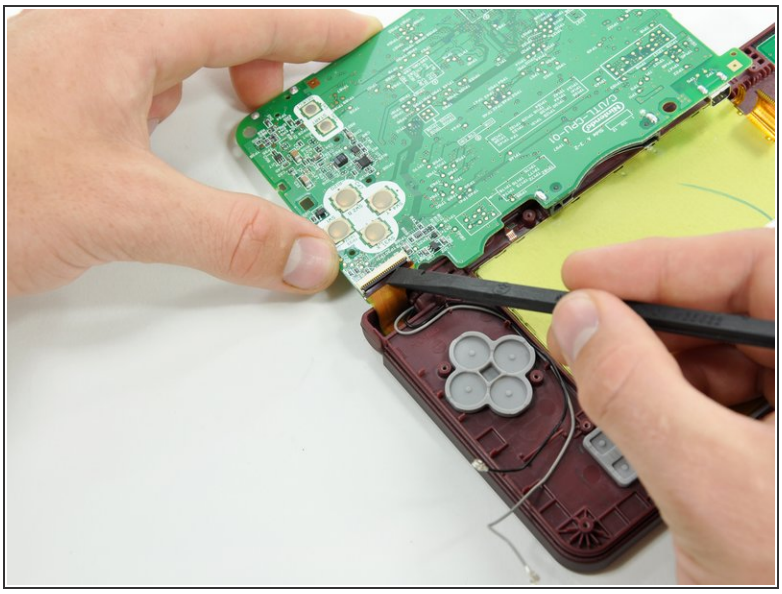


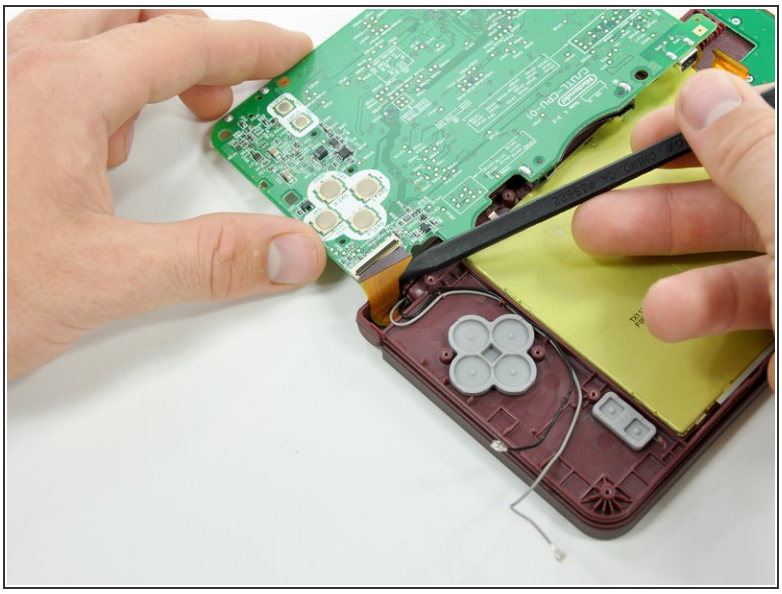


- Rotate the motherboard off the lower case.

The motherboard cannot be completely removed yet. It is still attached by the upper LCD's display data ribbon cable.

Step 15





- Using the flat end of a spudger, flip up the retaining flap on the upper display data cable ZIF connector.
- With the pointed end of the spudger, pull the upper display data cable from its connector on the underside of the motherboard.

The motherboard is now free from the upper case.

Step 16





- With the console still upside-down, open the DSi XL slightly.
- Push the lower display away from the upper case.
- Remove the lower display from the DSi XL.

Step 17







- Turn the DSi XL over and open the display.

When re-assembling the device, be sure to re-install the ABXY and Start/Select buttons, as they are likely to fall out once the handheld console is turned over.

- Use a pushpin to remove the four plastic screw covers on the front bezel.

© 2020

Step 18



- Remove the four 3.5 mm silver Phillips screws securing the rear bezel to the front bezel.

Step 19





- Using two hands, gently slide the rear bezel upwards.

The rear bezel will move only about 2 mm.

Step 20





- Insert a spudger into the gap between the front and rear bezel.
- Rotate the spudger away from the DSi XL, prying the two bezels apart.

Step 21





- In the same manner as described above, continue prying along the top edge of the front and rear bezels.

Step 22



- Separate the rear bezel from the front bezel.

⚠ Do not attempt to completely remove the rear bezel yet. It is still attached to the front bezel by the rear-facing camera.

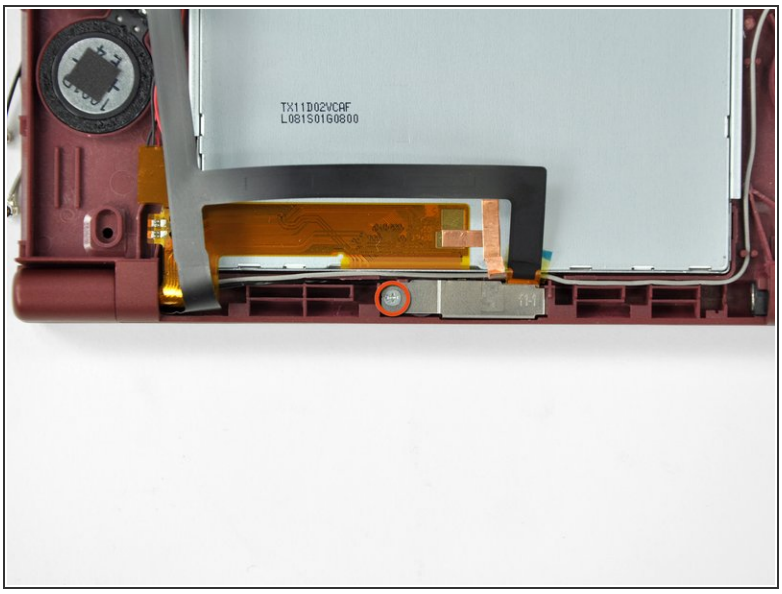
Step 23

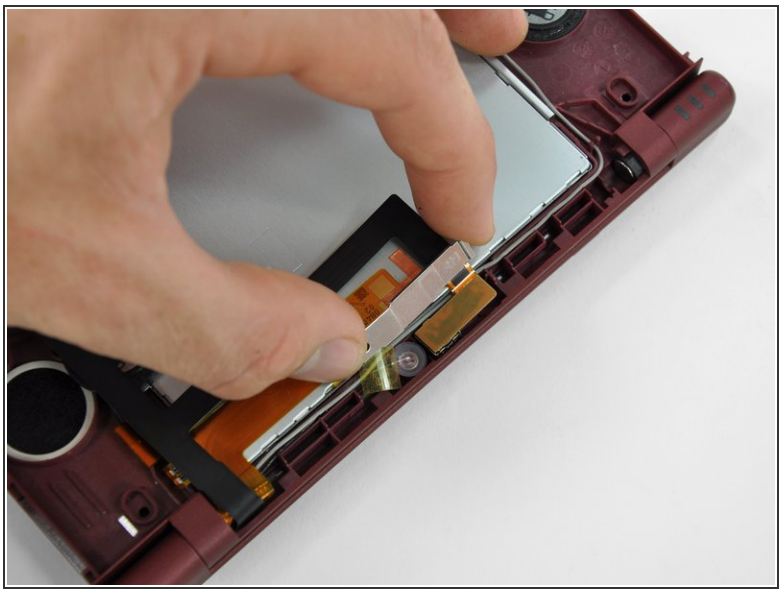


- Using the flat end of a spudger, pry the rear camera off the rear bezel.
- Remove the rear bezel.

© 2020

Step 24

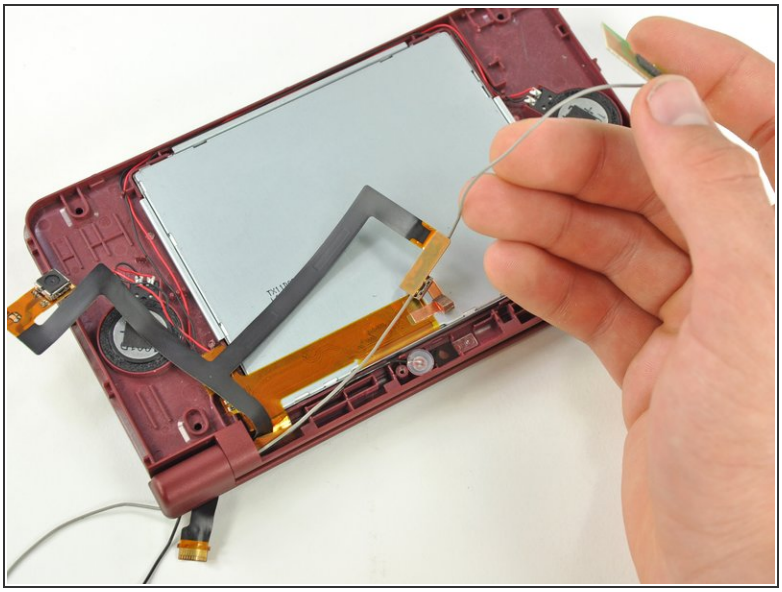




- Remove the Phillips screw holding the metal securing bracket in place.
- Lift the metal bracket off the camera.

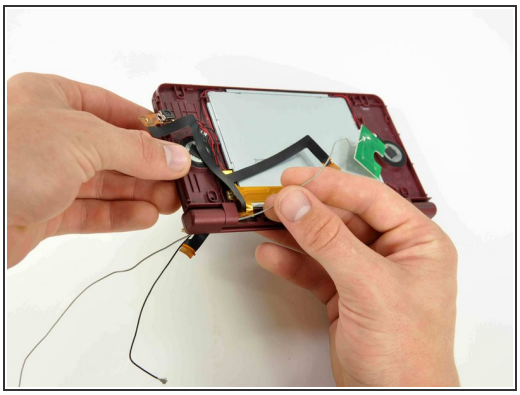
Step 25





- Lift the Wi-Fi antenna off the front display bezel.
- De-route the Wi-Fi antenna cable from its grooves at the bottom of the front display bezel.

Step 26

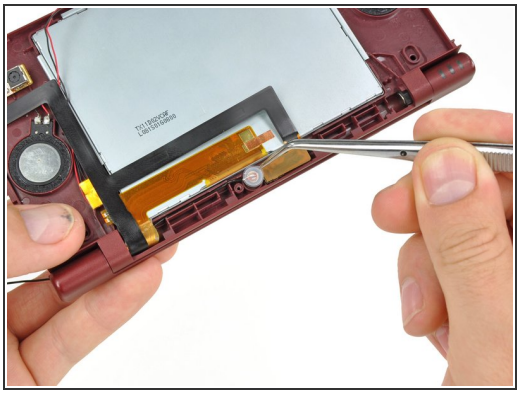




- Pull the Wi-Fi antenna cable through the right hinge connecting the front bezel and upper case.
- Use the pointed end of a spudger to guide the connector at the end of the Wi-Fi antenna cable through the hinge.

To replace the antenna, use a pair of tweezers to guide the connector through the hinge.

Step 27

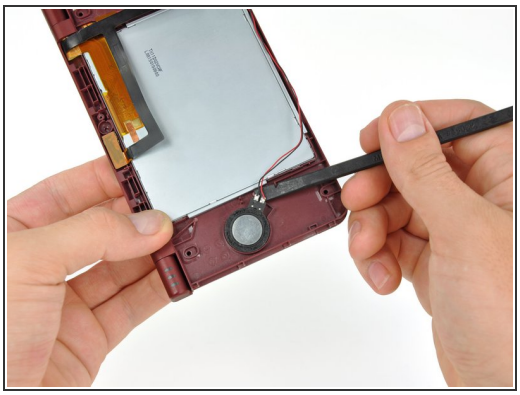
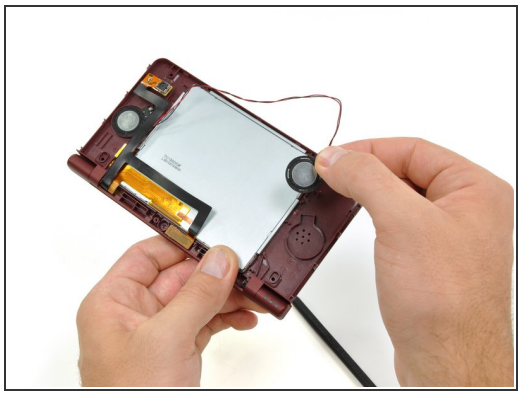
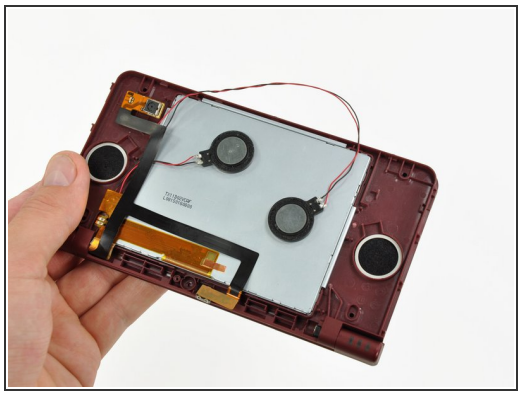




Close the DSi XL and turn it over.

- Using a pair of tweezers, pull the microphone out of its housing in the front bezel.
- De-route the microphone cable, and pull it through the right hinge.

Step 28

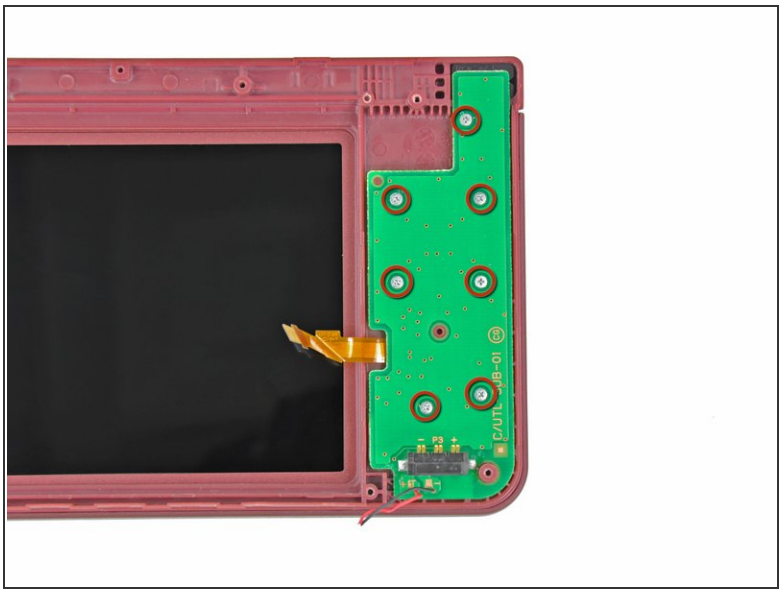
- Using the flat end of a spudger, pry the left speaker out of its socket on the front bezel.
- De-route the speaker cable along the top edge of the screen.

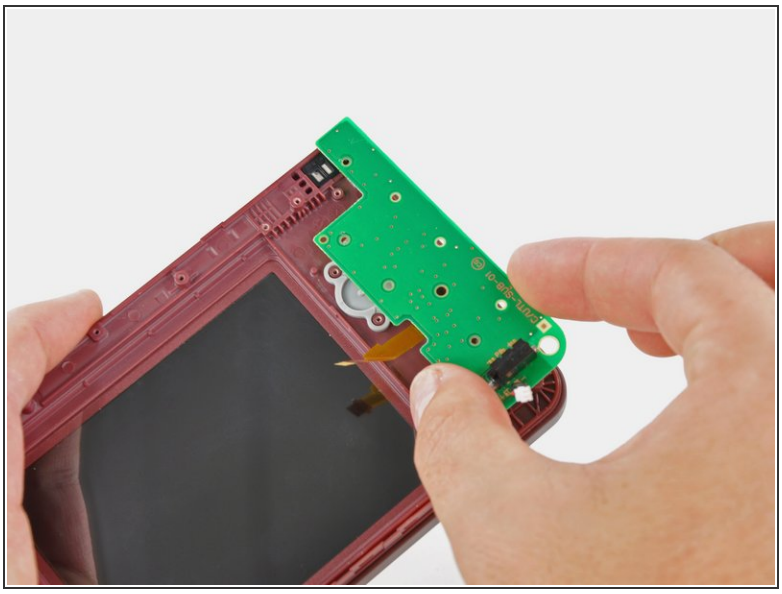
Work carefully and slowly, holding onto the wire and not the speaker itself. The solder joints may break if pulled on too hard.

- In the same manner described above, remove the right speaker from its socket on the front bezel.
- Place both speakers on the back of the upper LCD.

© 2020

Step 29





Ensuring that the upper LCD does not fall out of the front bezel, turn the DSi XL over.

- Remove the seven 2.5 mm silver screws securing the power board to the upper case.
- Lift the power board up off the upper case.

Step 30

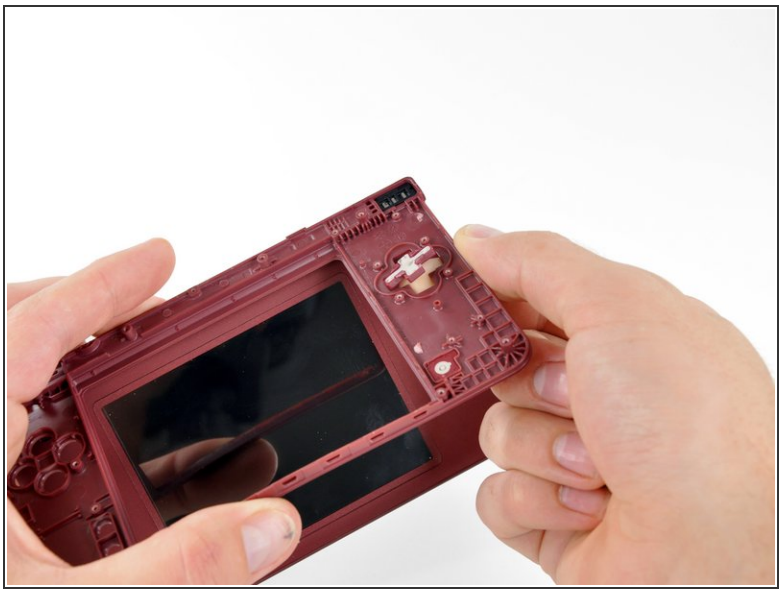




- Peel the rubber button pads off the backside of the D-pad and power button.

© 2020

Step 31



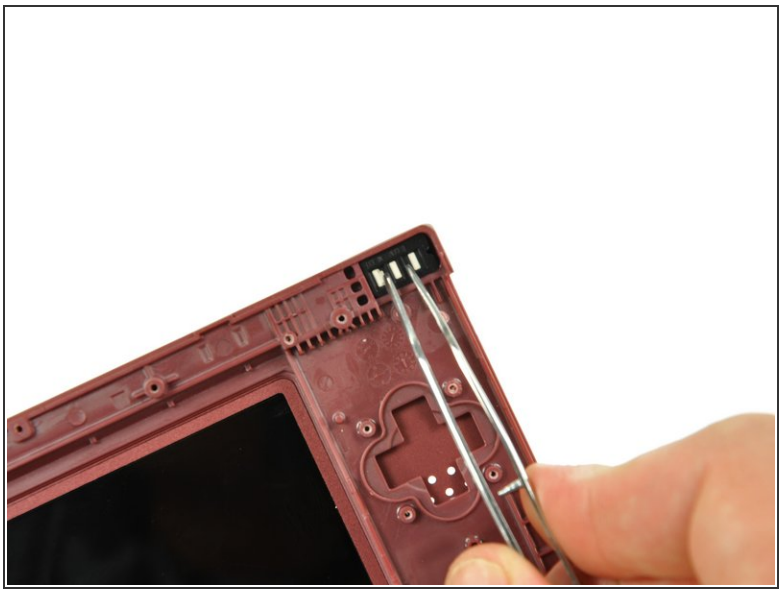


Open the case slightly.

- Push the D-pad up through its housing in the upper case. Remove the D-pad.
- In the same way, remove the power button from the upper case.

© 2020

Step 32



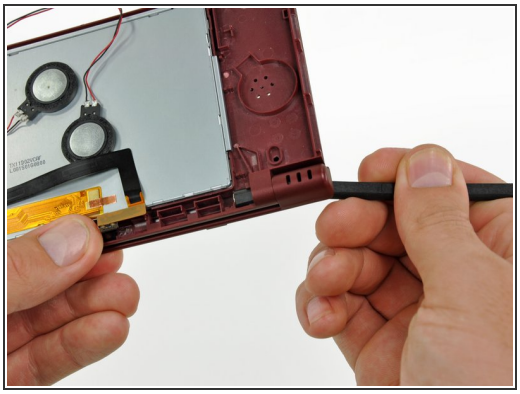


- Using a pair of tweezers, remove the LED diffuser bracket and the LED diffuser from the upper case of the DSi XL.

Step 33







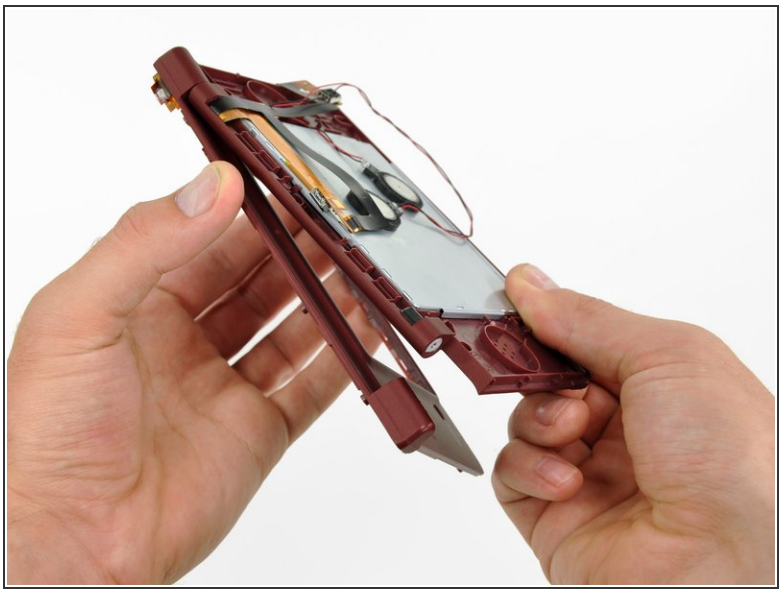
In the following steps, you will be using a spudger to remove the hinge pin from the left side of the DSi XL.

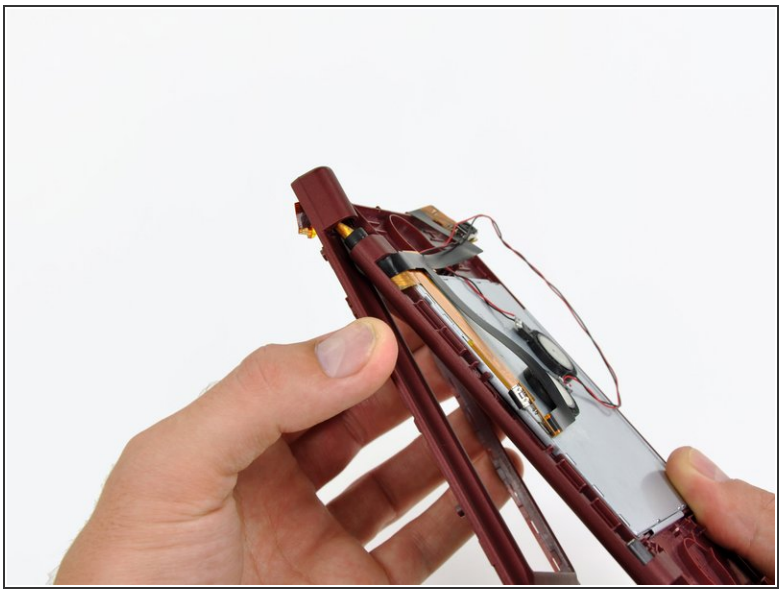
- Place the tip of a spudger in the LED diffuser compartment, on the face of the clutch hinge.
- Push the clutch hinge to the left.

Some force will be required. You will hear an audible "pop" when the clutch has cleared the lower case. It will move about 0.25".

© 2020

Step 34





- Lift the left side of the front bezel away from the upper case.

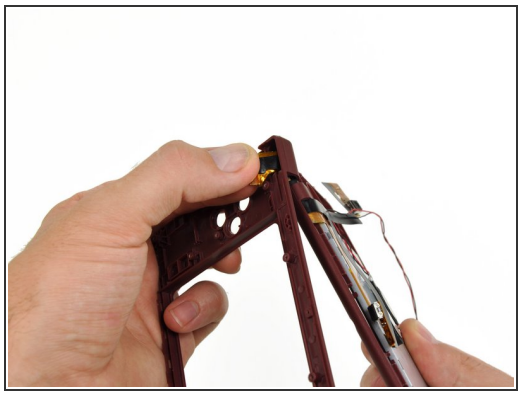
Do not lift too far, or else the hinge pin will break. Only lift enough to clear the LED compartment, about 1".

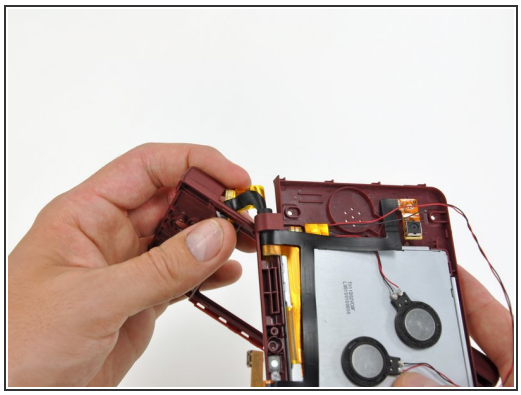
- Pull the front bezel to the left, separating the front bezel from the upper case.

Do not attempt to fully separate the two halves yet. There are still ribbon cables running through the upper case.

© 2020

Step 35



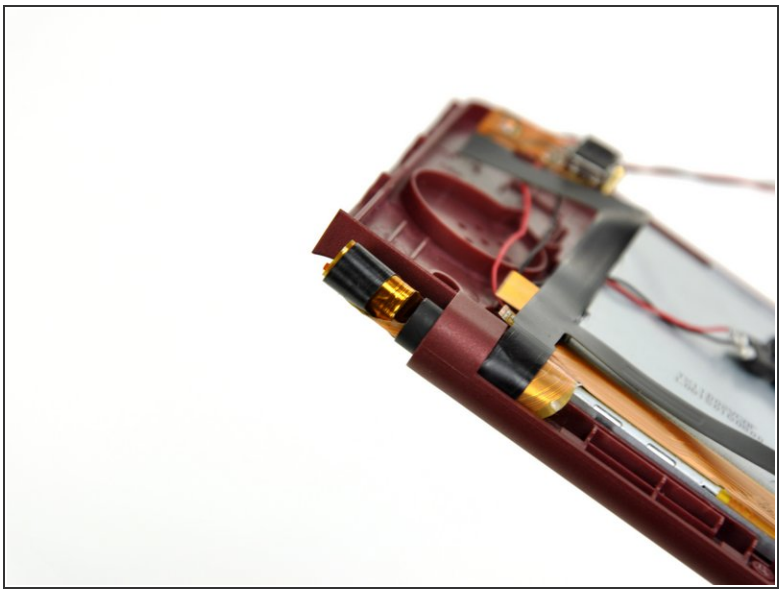


- Grasp the camera and upper LCD ribbon cables between your thumb and forefinger, pulling them out of the upper case slightly, slide them down through the slit in the upper case.
- Rotate the front bezel assembly clockwise so that the ends of the camera and LCD cables slide sideways through the slit in the front bezel.

© 2020

Step 36





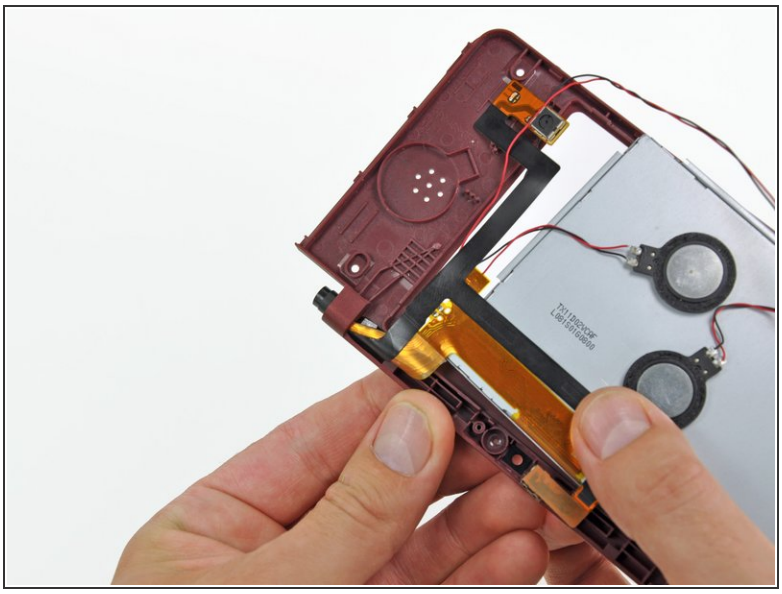
In order to remove the upper LCD and the cameras from the front bezel, it is helpful to coil the ribbon cables together.

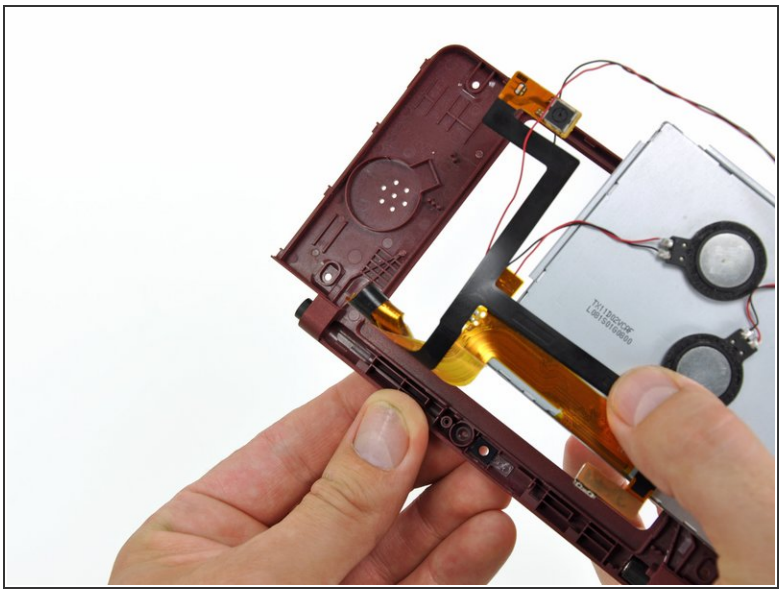
- Carefully coil the two ribbon cables together, so that the connectors are on the inside of the spool.

Wrap the ribbon cables tightly, but not too tight, as bending the connectors will render them inoperable.

© 2020

Step 37



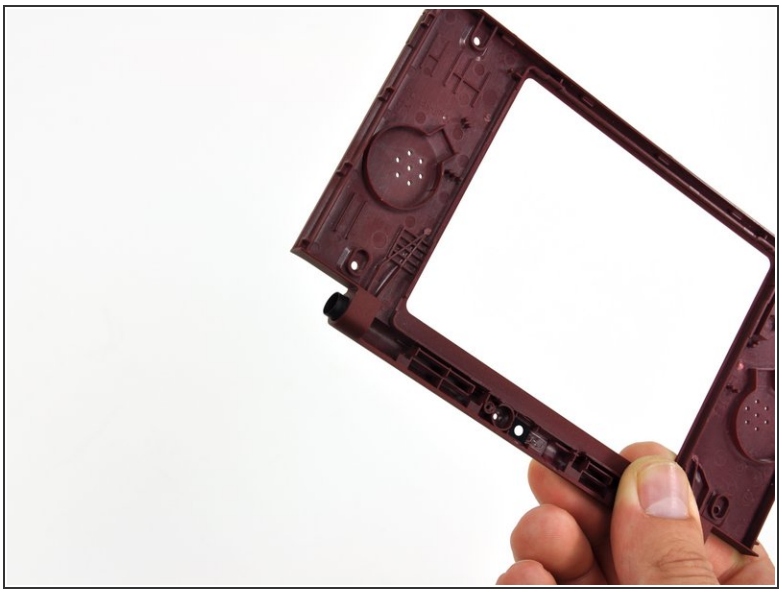


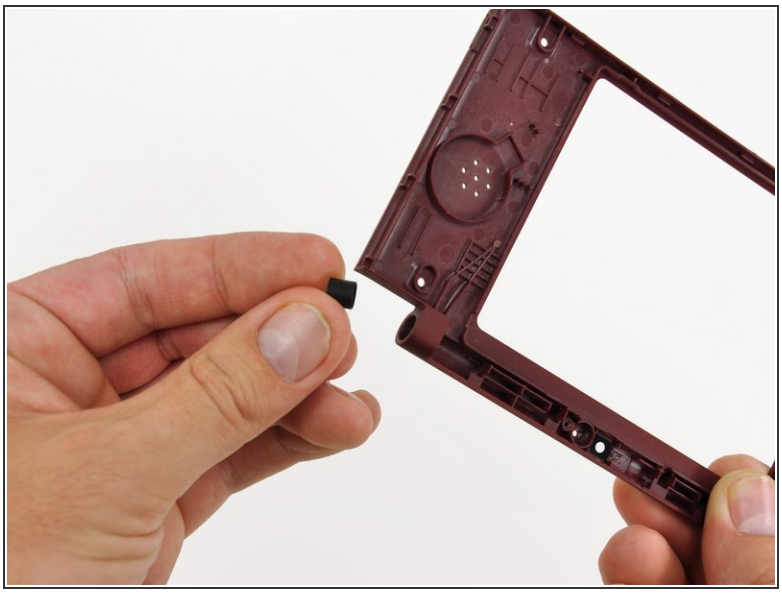
- Holding the upper LCD and the cameras together, pull the cables through the hinge in the front bezel.

⚠ Pull slowly, making sure that the cables do not catch on the hinge pin and tear.

- Uncoil the ribbon cables.

Step 38

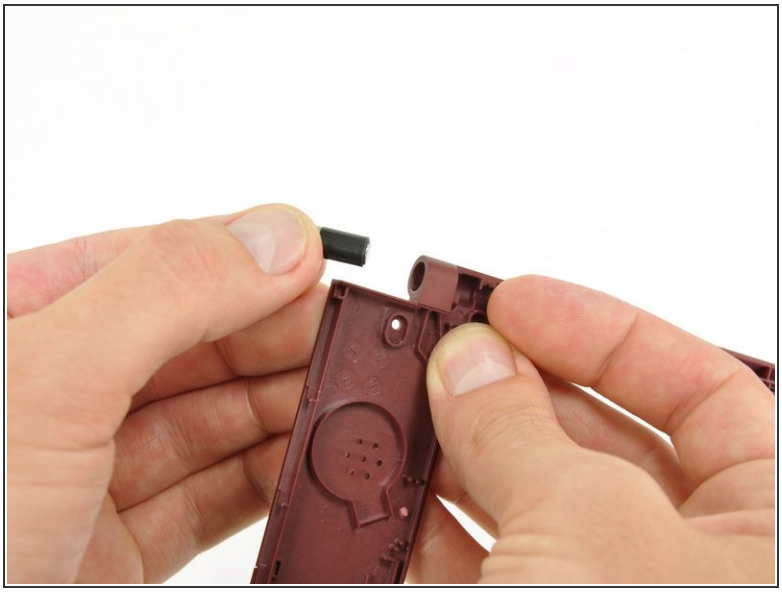




- Pull the hollow hinge pin out of the right side of the front bezel.

Step 39





- Push the clutch hinge on the left side of the front bezel through its mount bracket.
- Remove the clutch hinge.

© 2020

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

© 2020