Xelio P1001A-BK DC Power Socket Replacement

This guide steps through the procedure to replace the DC power port on the tablet. This task requires intermediate skill in de-soldering and soldering.

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INTRODUCTION

If the power connector on the Xelio P1001A-BK tablet is damaged, it can be de-soldered from the motherboard and replaced with a new part. This is a 2.5mm x .7mm power plug which should be readily available from most electronic parts stores. The repair should take about one hour for the intermediate do-it-yourselfer.

Since the motherboard will be exposed, care should be taken to prevent short circuiting the power leads from the battery or allowing static electricity to damage the motherboard. An antistatic mat should be used if available.

Be patient and go slow with this repair as several small parts will be removed and the could be easily damaged or lost. A magnetic mat or parts tray is recommended to keep small parts together.

TOOLS:

- Flat Needle Nose Pliers (1)
- Volt Ohm Meter (1)
- Phillips #0 Screwdriver (1)
- Soldering Iron (1)
- Solder Vacuum (1)

PARTS:

- 2.5mm x .7mm Male Surface Mount DC Power Socket (1)
- Solder (1)

Step 1 — Removing the Back Cover

- Locate screws at each corner on the side of the tablet

Step 2

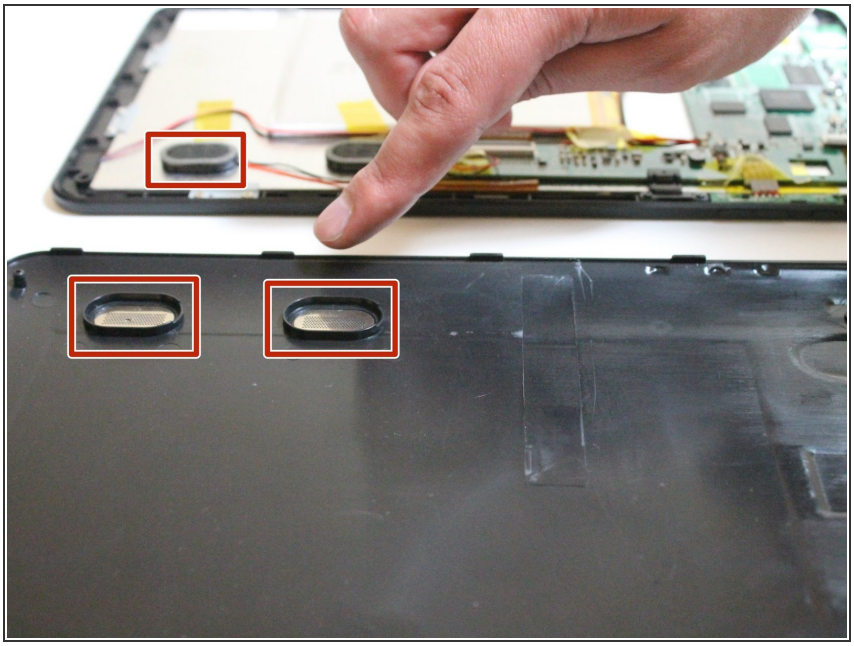
- With a Phillips #0 screwdriver, remove the two 3mm x 1mm retaining screws

Store the screws in a plastic bag or other appropriate container.

Step 3

- Using the plastic opening tool, disengage the securing tabs that are along the two long sides of the tablet, four on each side.
- Slowly rotate up the side of the tablet opposite from the control buttons.

Step 4

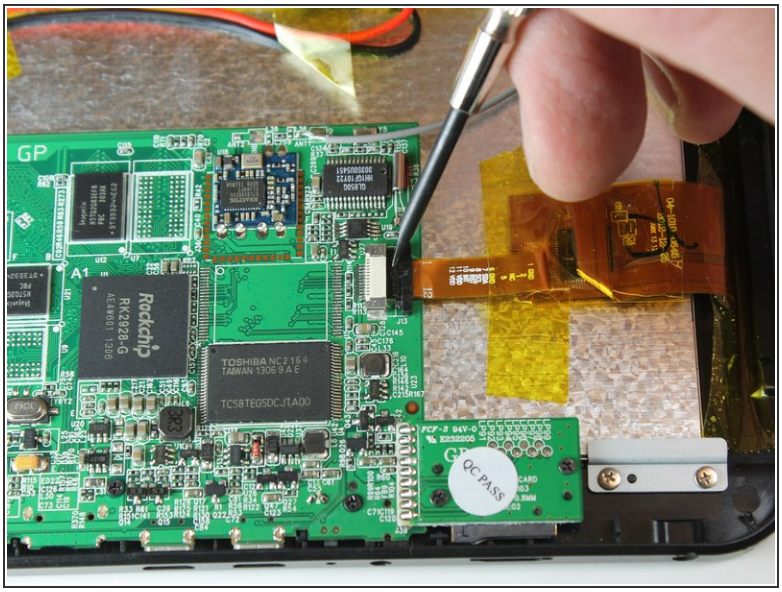


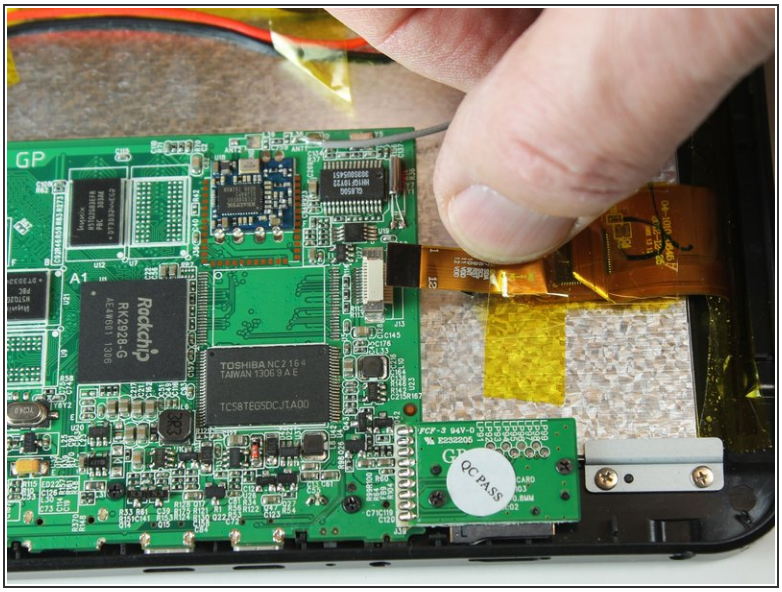
- Before fully separating the shell halves, observe if the speakers are separated from the shell half
- If they are, the shell half can be fully separated from the front shell half
- If the are still in their sockets, gently pry them loose with the plastic opening tool.

Step 5 — DC Power Socket

- Remove the micro-SD card from the card slot if a card is in the slot

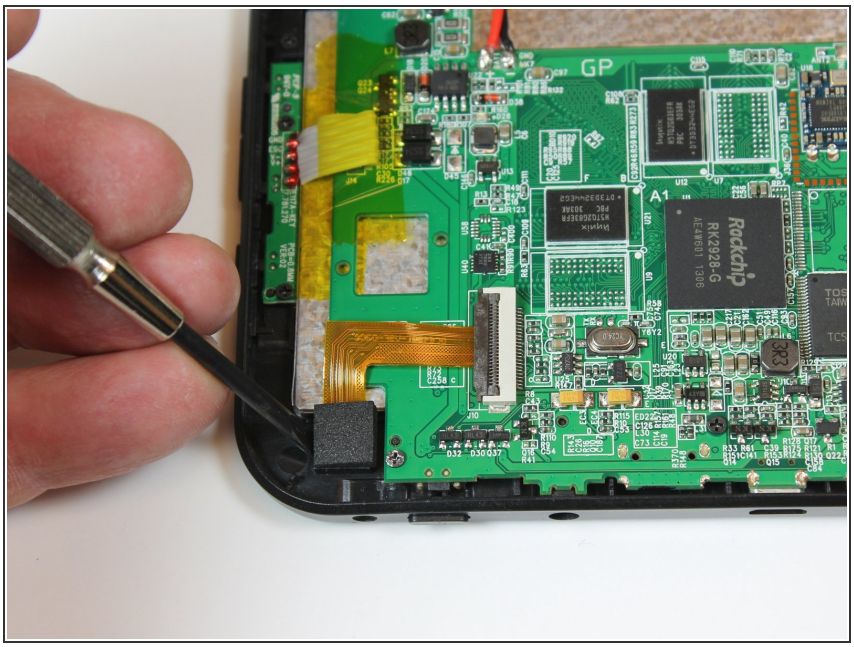
Step 6





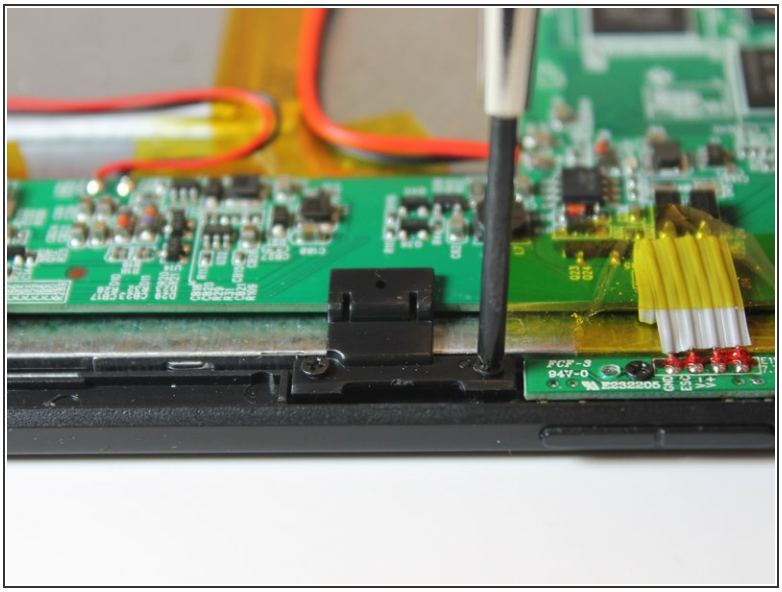
- Remove the motherboard to screen ribbon cable
- Pry the ribbon cable retaining tab loose with plastic opening tool.
- Slide the ribbon cable out from the connector.

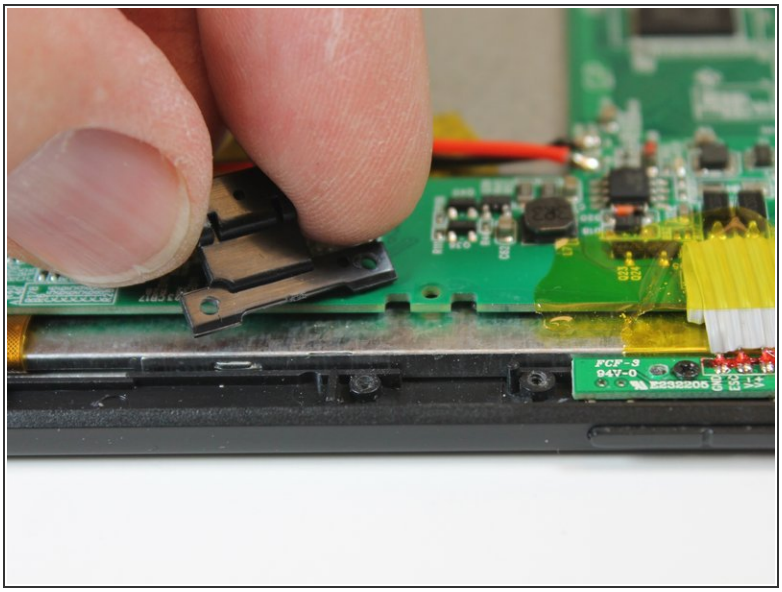
Step 7



- Remove the camera from its socket. Do not remove the camera ribbon cable.

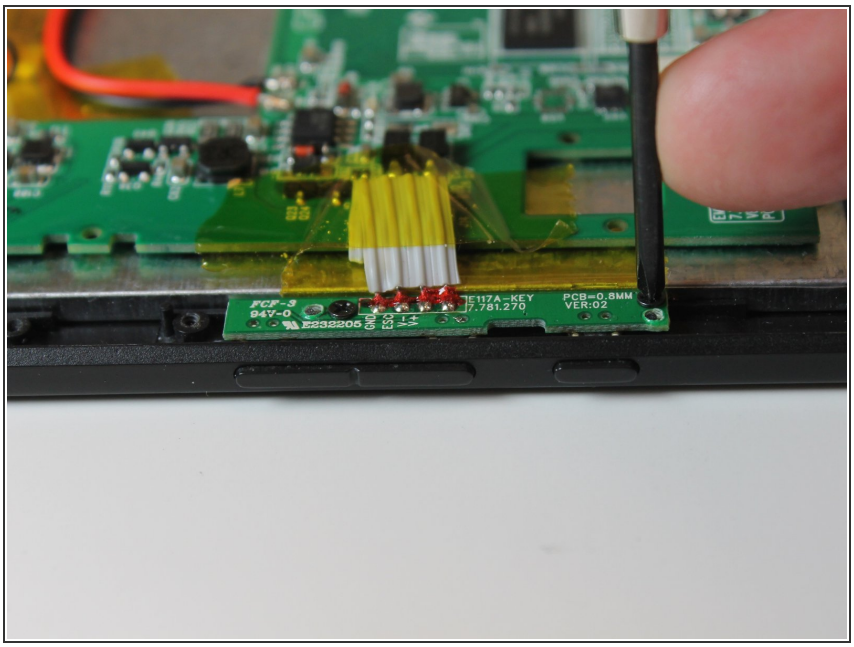
Step 8





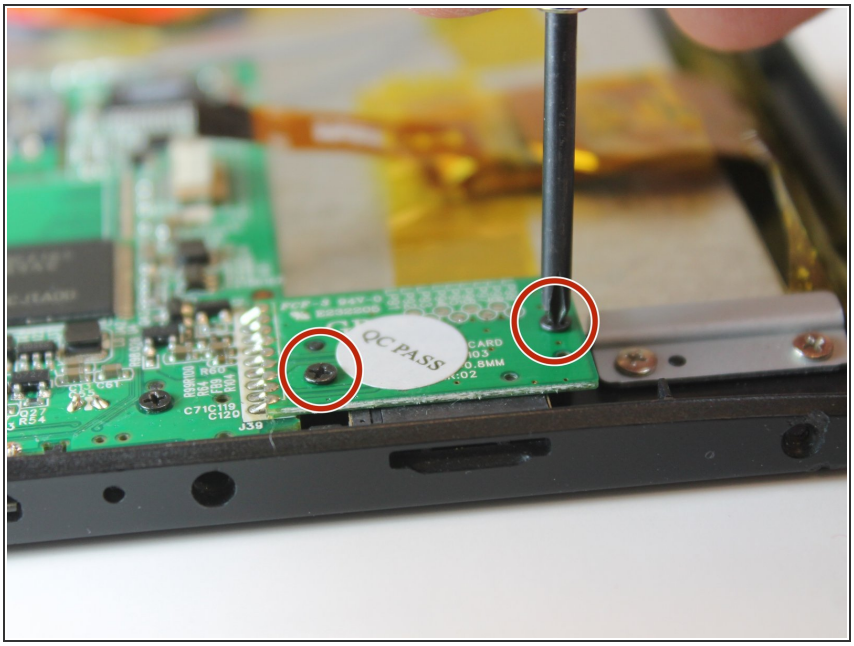
- Remove the two motherboard retaining clip screws with a No. 0 Philips head screwdriver
- Remove the retaining clip from the board.

Step 9



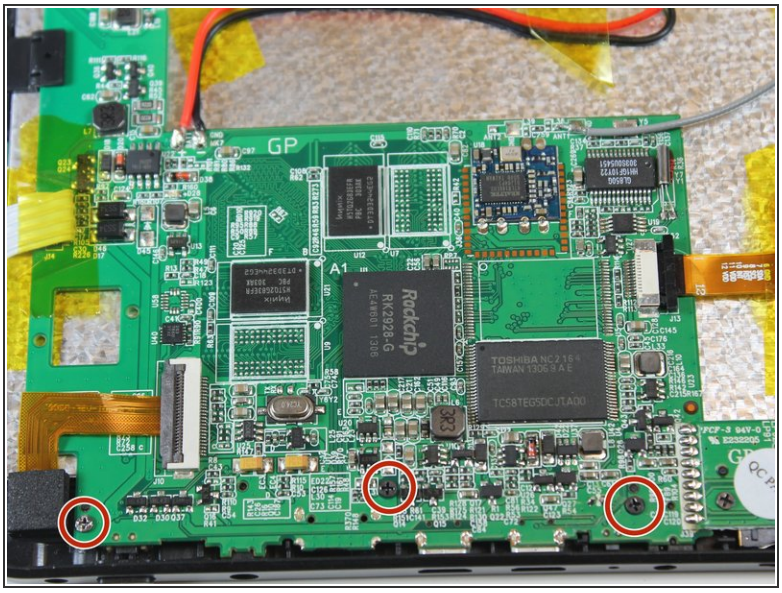
- With the No. 0 Phillips head screwdriver, remove the two screw that hold the function and volume control switch assembly to the tablet.

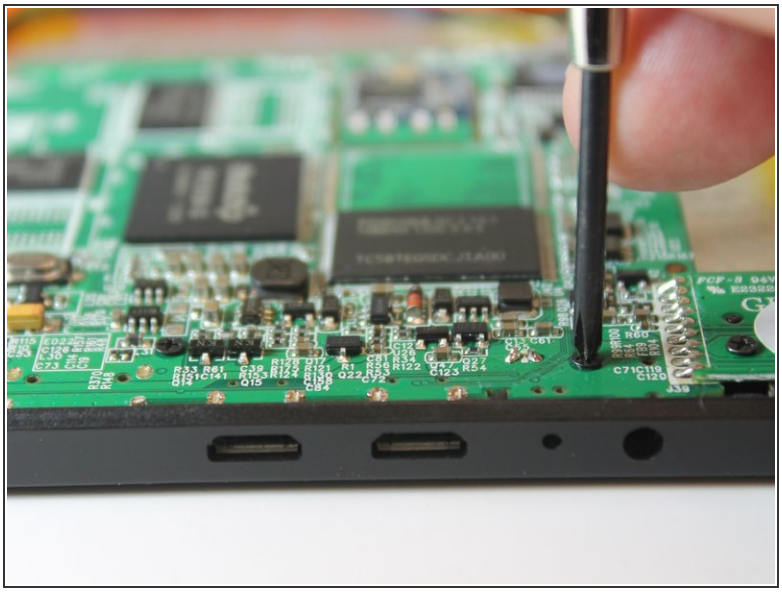
Step 10



- Remove the two screws that secure the micro-SD card reader to the tablet frame

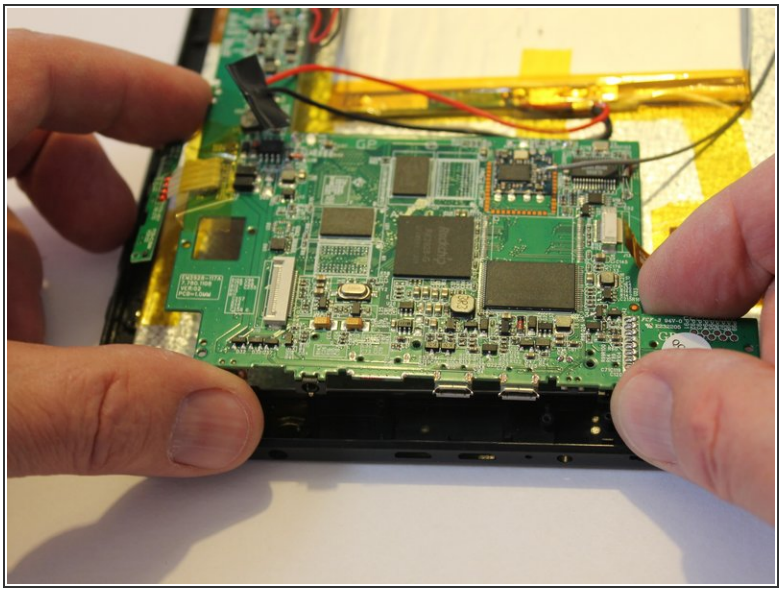
Step 11

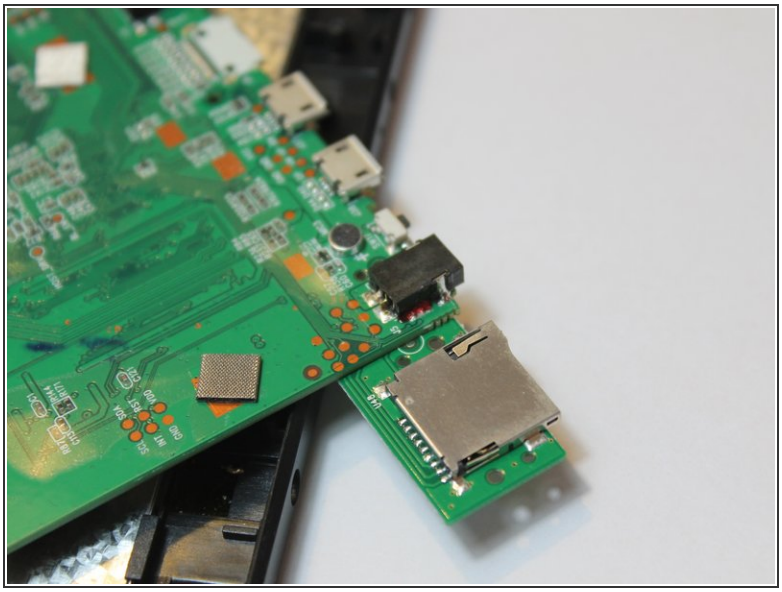




- Remove the three screws that secure the motherboard to the tablet frame

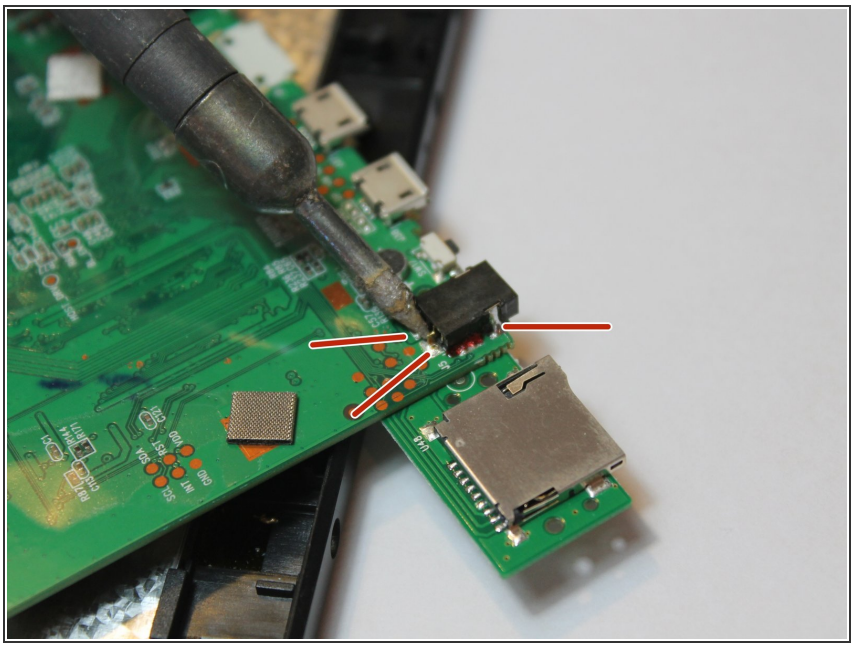
Step 12





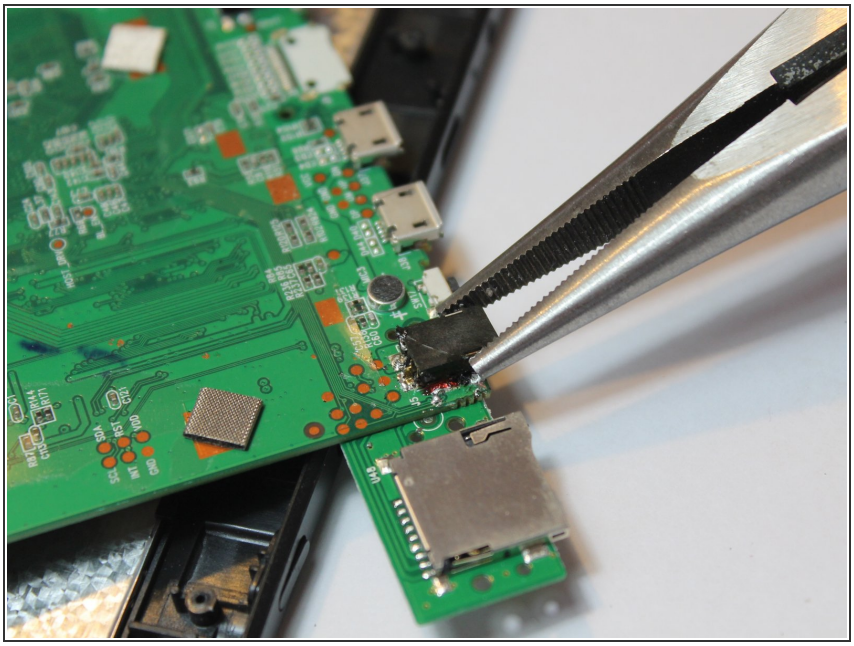
- Gently lift the motherboard free from the tablet frame and turn it over to expose the opposite side. This will expose the power socket solder pins.
- Be cautious when turning the board over as another ribbon cable, the speaker wires, battery wires, and Wi-Fi antenna wire as still connected to the motherboard.

Step 13



- De-solder each of the solder points.

Step 14

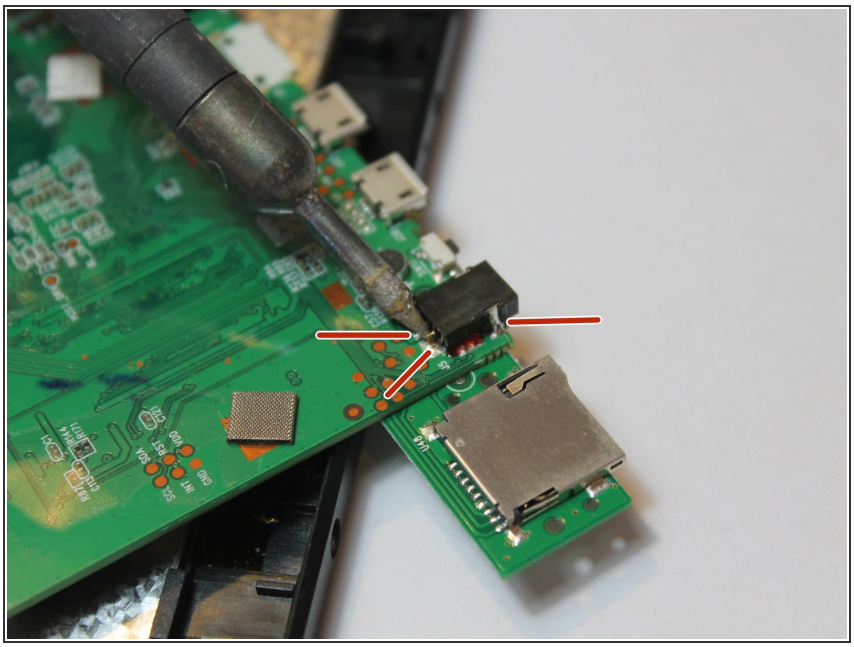


- Remove the damaged power socket.

Use a needle nose pliers or pair of tweezers to hold the power socket as it is a small part and may be difficult to hold.

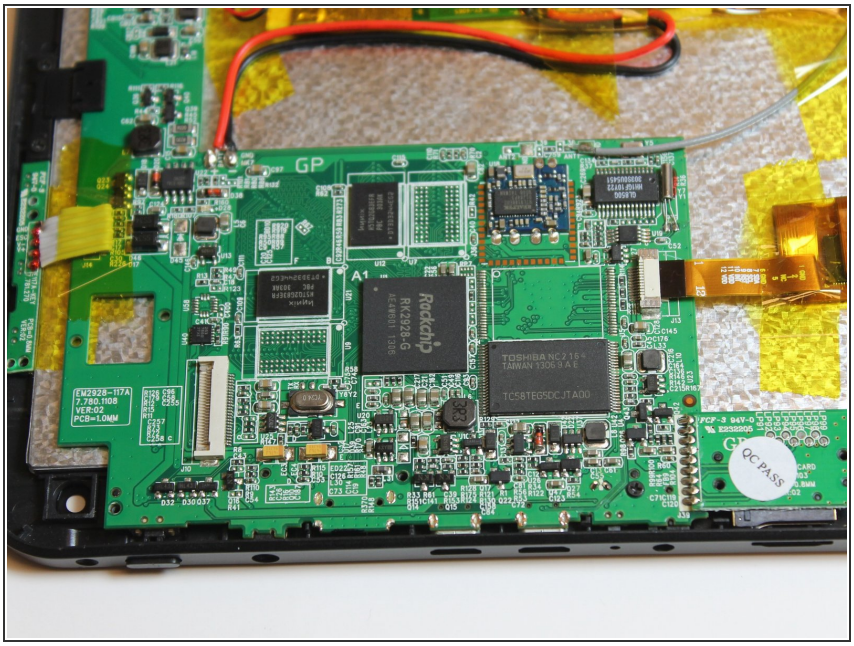
Be careful to avoid touching the solder pins as they may still be hot

Step 15



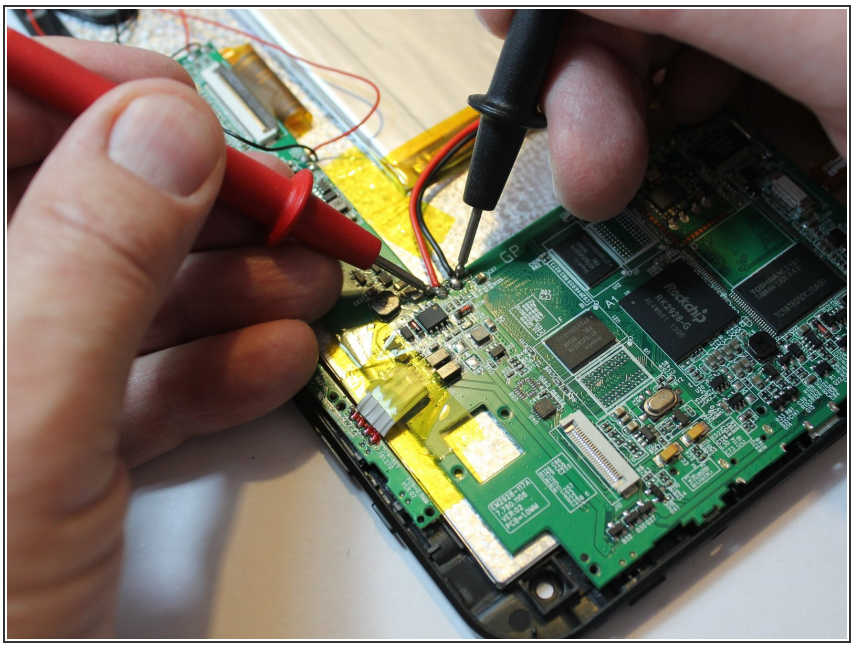
- Place the new part on the board
- Solder the new part into place

Step 16



- Place the motherboard back into its proper position but do not reinstall the securing screws yet.

Step 17



- Plug the tablet power supply into the power socket
- Using a volt-ohm meter, touch the meter probes to the battery wire points on the motherboard to ensure voltage is getting to the battery.

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