



# LG Optimus L9 P760 Teardown

In this teardown, you will find out how this phone is made of. Furthermore, if you want to change a piece, you can follow this tutorial. No phones have been hurt in this teardown (it was dead anyway)!

Written By: Bob



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# INTRODUCTION

Want to know the pieces that drive this phone or just want to know how to disassemble it? This guide is for you!

Now, let's go!



## TOOLS:

- [Spudger](#) (1)
  - [Essential Electronics Toolkit](#) (1)
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## Step 1 — LG Optimus L9 P760 Teardown



- Released in 2012 as the best phone in the L series (the other phones were L3, L5 and L7)
- This phone exists in different versions : the P760 (this one), the P765 (for India), P768 (for America - and a 8 MP camera) and P769.
- The specs of this phone :
  - CPU: Cortex A9 (dual-core @ 1 GHz)
  - RAM: 1 GB (0.75 GB according to the phone)
  - Storage: 4 GB (2.3 GB usable) + micro-SD
  - Screen: 4.7" IPS, 540x960.
  - OS: Android 4.1.2 (for the latest version - 4.2 with Cyanogen 10.1.2)

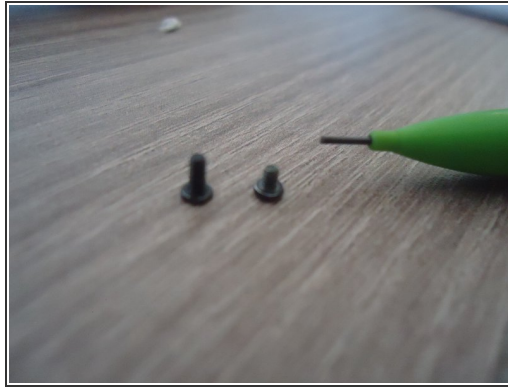
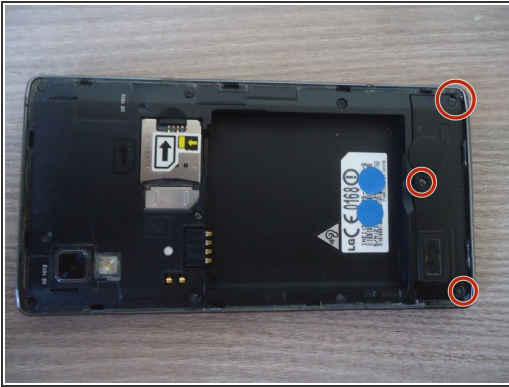


## Step 2



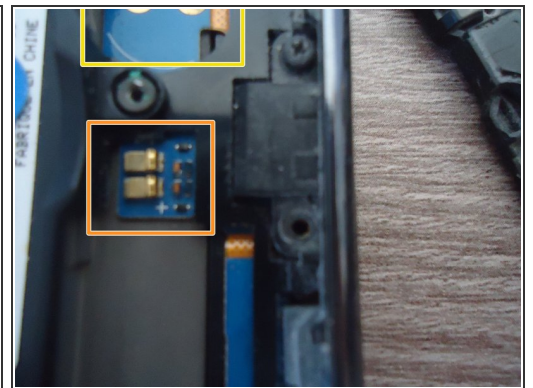
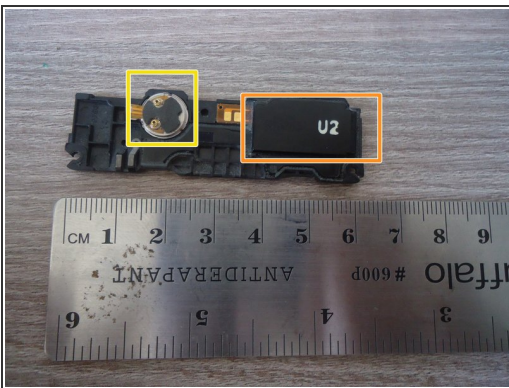
- To access to the battery: easy: let it drop or lift with your thumbnails the rear cover.
- The battery can be removed the same way (dropping the phone is not a good idea...)
- The battery has a capacity of 2150 mAh. Not that bad but it runs out quite quickly (good point: the battery is removable)

## Step 3 — Removing the lower part



- Let's begin the fun part: with a screwdriver, let's remove the three Philips screws.
- Keep the screws on a magnet not to lose them (or two: there are two types of screws in this phone: the little short and the little long screws)
- This part can be lifted easily (eg: insert a flat screwdriver on the top of the part)

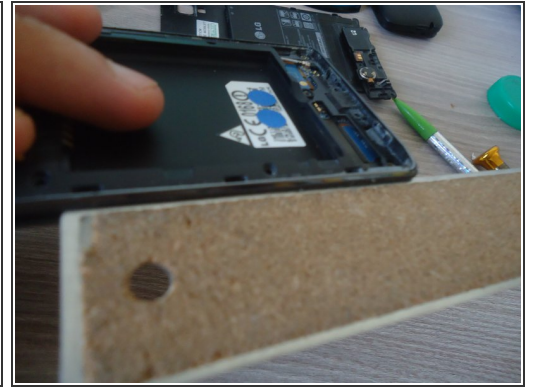
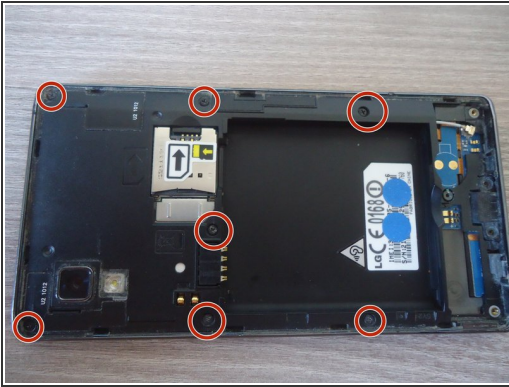
## Step 4



- What does this part do?
  - The vibrator which... well, vibrates.
  - And the bottom speaker: used when you listen to music and with hands-free calls).
- From the rest of the phone, the connectors are visible.

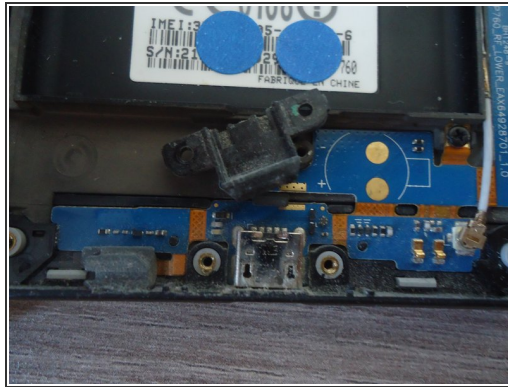


## Step 5 — Removing the cache



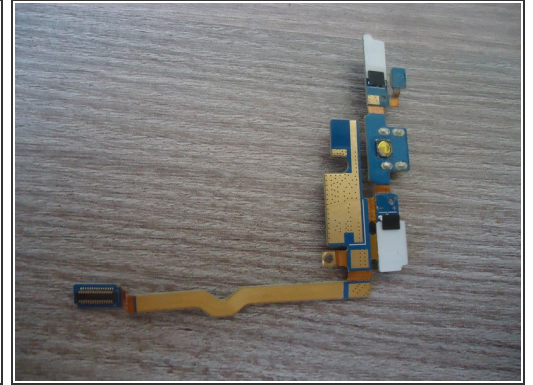
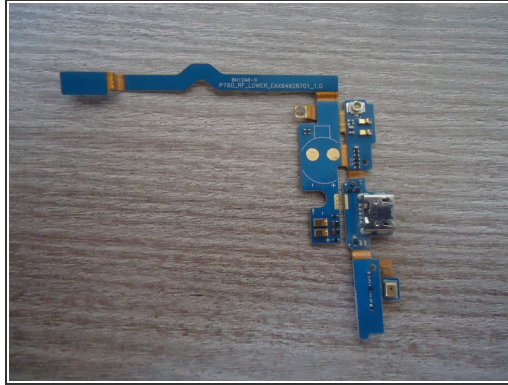
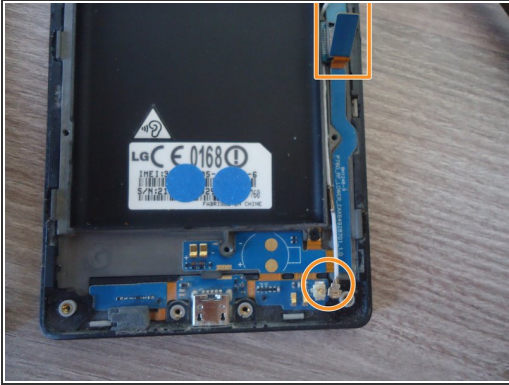
- Now, to access to the motherboard and to the connectors, you are at 7 screws from it!
- With a spudger (or something flat - NOT a flat screwdriver), pry the glossy part and separate it from the rest of the phone.
- As a rule of thumb, a rule is somehow effective!

## Step 6



- Here we are! Before removing the lower card, let's remove the two little screws and the cache hiding the micro USB port.
- The phone, with the guts visible (almost...)

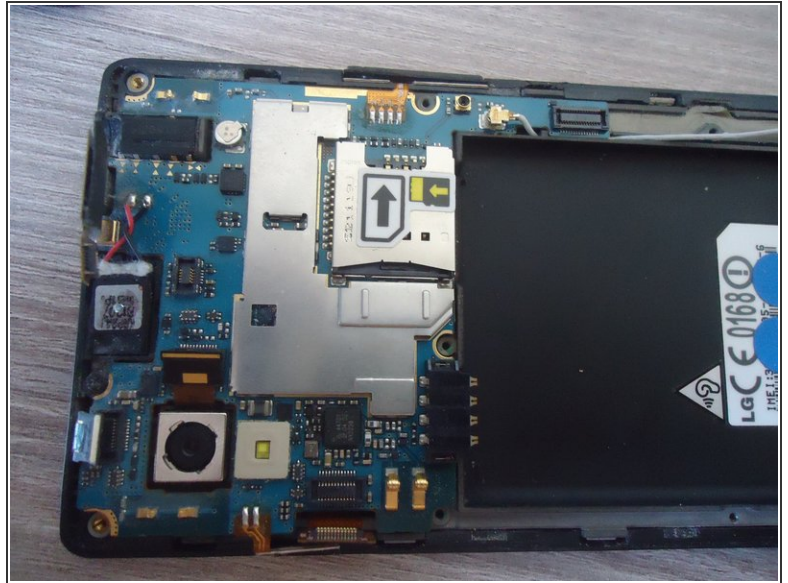
## Step 7 — Removing the bottom board



- To proceed, detach the antenna and the connector.
- Then, the tedious part: the board is glued to the case! Proceed with care not to break the card (by taking the part and with a spudger).
- We can note the presence of the (little) microphone. This board gathers the connectors for the vibrator, the speaker, the micro USB and the antenna. This part is quite important!



## Step 8 — Removing the motherboard



- Now, the (dual-)core of the phone: the motherboard. LG was good for the board: almost everything is linked by connectors, easily removable!
- Let's continue our dissassembly by disconnecting the four remaining ribbons:
  - The digitizer
  - The screen
  - The rear camera
  - The front camera and the proximity sensor
  - The antenna. Useful if the antenna was torn because it is easily replaceable!
  - Is it me or the phone includes a second antenna for dual-SIM models?

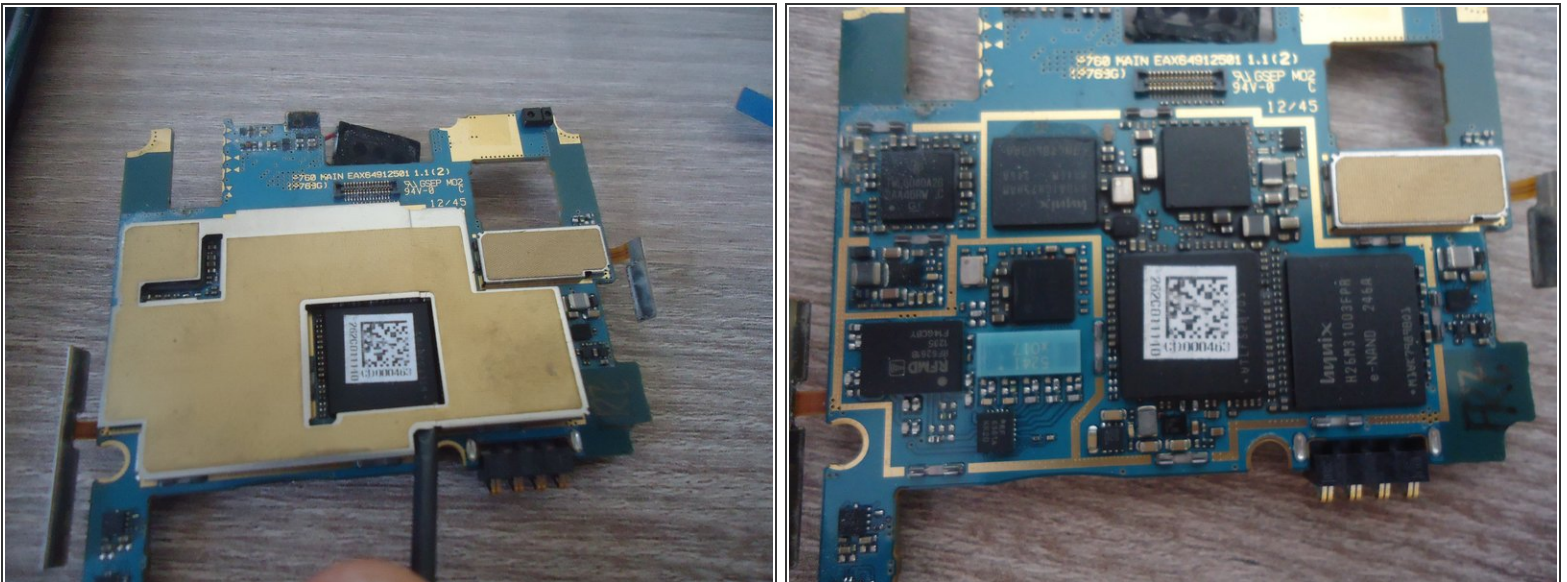


## Step 9



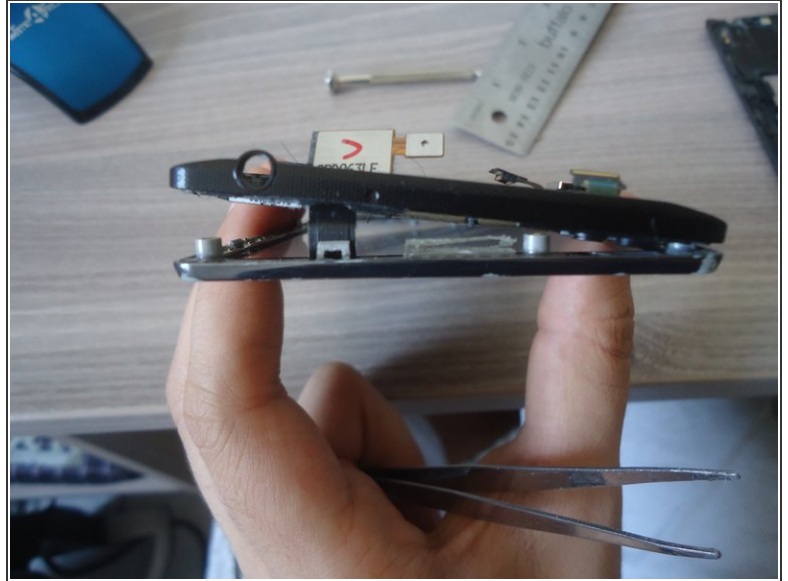
- Careful, the board won't go without unscrewing this tiny screw, securing the top speaker (sorry for the quality)!

## Step 10



- The motherboard, with the shields. With a flat screwdriver (do it if the phone is dead... Otherwise, the components beneath are fragile and may stop working).
- I don't want to say wrong things so the analysis is left as an exercise for the reader.

## Step 11 — Removing the digitizer



- The most interesting part for a fragile phone: the digitizer.
- ⚠ The connector of the digitizer can cause you trouble! Don't lift the digitizer brutally or the ribbon may tear!
- Little by little, with a spudger, the both parts start separating... Be careful though!

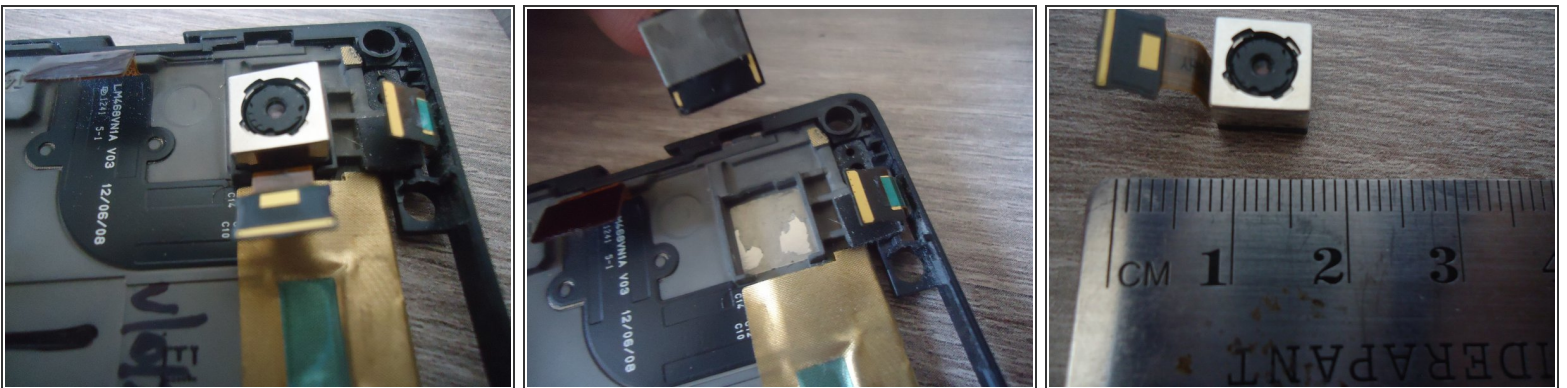


## Step 12



- Here is it! It includes the two capacitive buttons on the bottom.
- The button is barely maintained on the digitizer!

## Step 13 — Removing the camera



- The rear camera is glued to the naked phone. A flat screwdriver and the camera is gone!

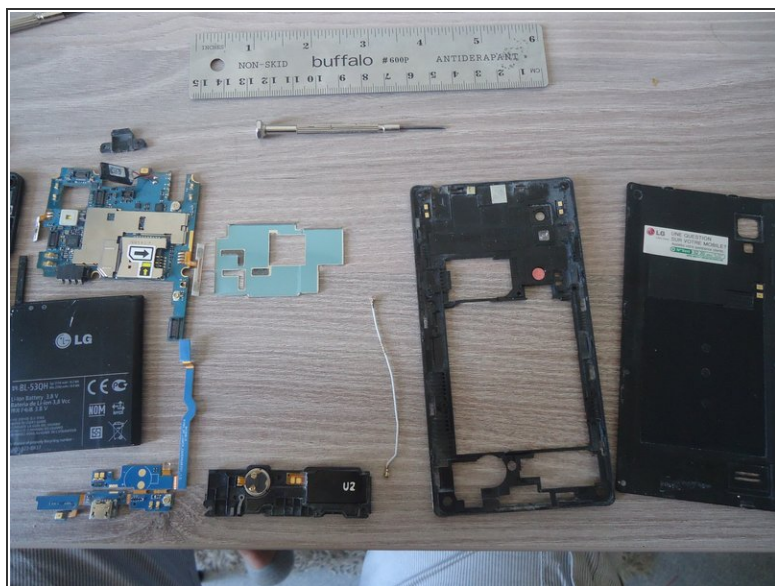


## Step 14 — The female Jack



- The female Jack connector is not soldered at all! Only on its place, with the four connectors touching the motherboard.

## Step 15



- This teardown is completed (almost).
- Feel free to add information if you want!
- *Rest in Pieces*, phone...

