



LG V20 MB Assembly Replacement

This motherboard replacement guide will help bring your phone back to life.

Written By: Max Wu



INTRODUCTION

Replacing your motherboard can help solve a variety of issues that might seem to pop up on your phone. Not turning on? Blue screen? Random restarting? All of these symptoms can be a result of a faulty motherboard. This guide will show you how to properly replace the motherboard to restore your phone.



TOOLS:

- [Phillips #00 Screwdriver](#) (1)
 - [iFixit Opening Tools](#) (1)
 - [Tweezers](#) (1)
-

Step 1 — Battery



⚠ Before disassembling your phone, discharge the battery below 25%. A charged lithium-ion battery can catch fire and/or explode if accidentally punctured.

- Use the flat end of a spudger and insert it in the small recess at the lower end of the battery.
- Use the spudger to lever out the battery and remove it.
- ⓘ You can do this with your fingers but take care not to puncture the battery with your fingernails.

Step 2 — Midframe Assembly



- Remove the sixteen 4mm Phillips #00 screws attaching the back cover to the motherboard.

Step 3



-  The top and bottom frame section hold very tight to the mid frame. It is possible to pull them off with your hands. If you're not able to do so, use the following removal procedure:
- Use the flat end of a spudger and apply pressure to one of the corners of the frame section until you create a small gap.

Step 4



- Flip the phone and insert an opening pick in the gap you created.
- Slide the opening pick along the gap until the frame section pops out of its plastic clamps.

Step 5



- Remove the frame section.
- Repeat this procedure with the frame section on the other end of the phone.

Step 6



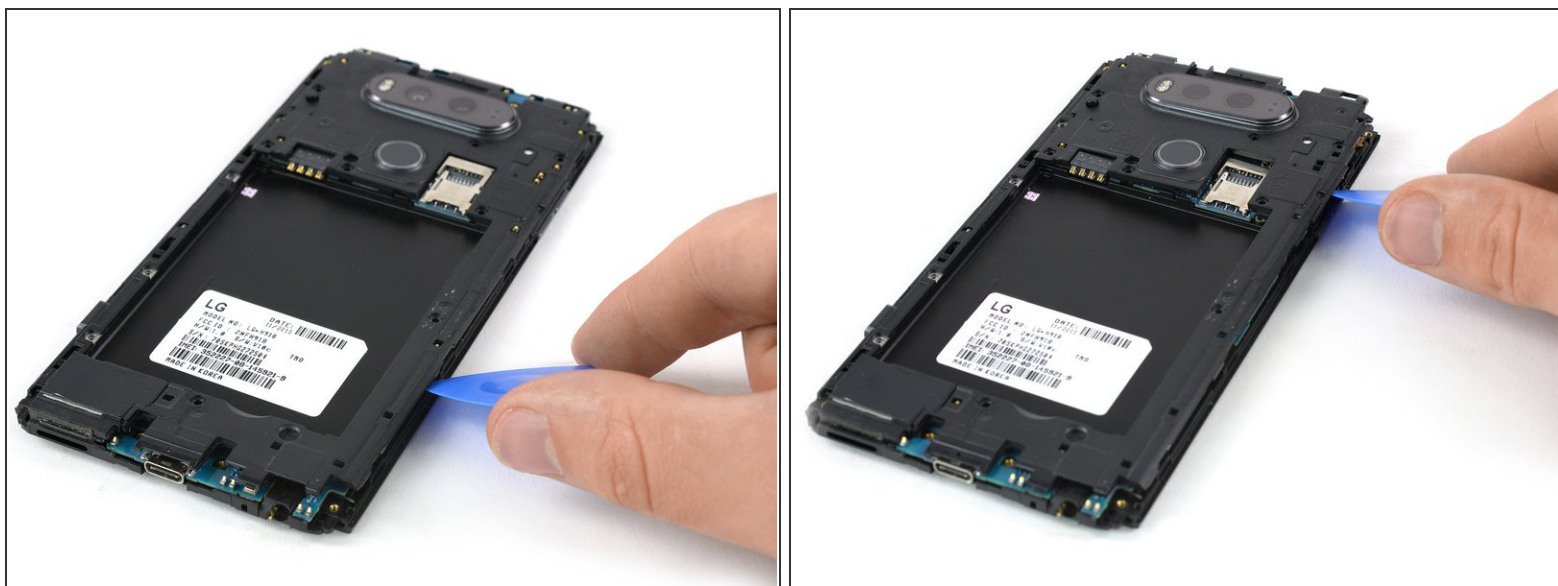
- The loudspeaker is attached to the cover of the motherboard. Use an opening pick to pry it up.

Step 7



- i** The cover of the motherboard is held in its place by several plastic clamps.
- Use an opening pick to pry up the motherboard cover at the right corner at the bottom of your phone until it pops out of the plastic clamp.

Step 8



- Slide the opening pick along the mid frame and flip it sideways to open the plastic clamps holding the motherboard cover in its place.

Step 9



- Remove the motherboard cover.

Step 10 — Front-Facing Camera



- Use the flat end of a spudger to disconnect the front camera flex cable.
- ① If you want to go on and remove the motherboard assembly, there is no need to remove the front facing camera after disconnecting it. However if you feel uncertain, carefully remove it with a pair of tweezers.
- Use a pair of tweezers to carefully remove the front facing camera. Be careful to only grip the body of the camera, as the top is the sensor pcb and is only held on with glue (removal will ruin the sensor).

Step 11 — Motherboard Assembly



- Use the flat end of a spudger to disconnect the flex cable of the left rear camera.
- The second rear camera will come out with the motherboard since it is connected on the other side.
- You can leave the front facing camera in its place as long as you're careful while removing the motherboard assembly. However if you feel uncertain, carefully remove it with a pair of tweezers.

Step 12



- Disconnect the display flex cable with the flat end of a spudger.

Step 13



- Use the pointed end of a spudger to lift up the motherboard assembly until you can get a good grip.
- Carefully lift up the motherboard assembly and remove it.

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