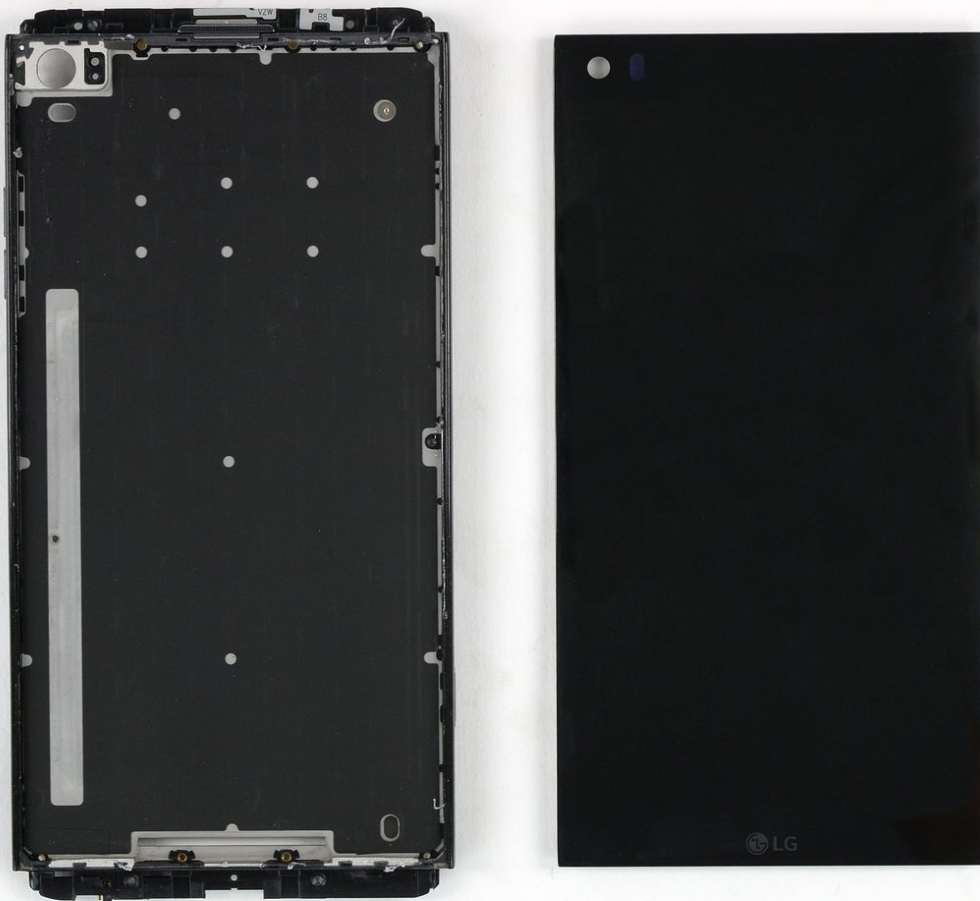




LG V20 Display Replacement

This guide shows how to replace the display in the LG V20.

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INTRODUCTION

Use this guide to replace your display in the LG V20.

To protect your eyes from glass shreds and get a better grip to open the phone you might want to apply some tape onto the screen.

You will need **replacement adhesive** to reattach components when reassembling the device.



TOOLS:

- [Suction Handle](#) (1)
- [Phillips #00 Screwdriver](#) (1)
- [Tweezers](#) (1)
- [iOpener](#) (1)
- [iFixit Opening Picks \(Set of 6\)](#) (1)



PARTS:

- [LG V20 LCD and Digitizer](#) (1)
- [Tesa 61395 Tape](#) (1)

Step 1 — Back Cover



- Press the button on the lower right side of the LG V20 to open the clamp that holds the back cover on the back side of the phone.
- Remove the back cover.

Step 2 — Battery



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

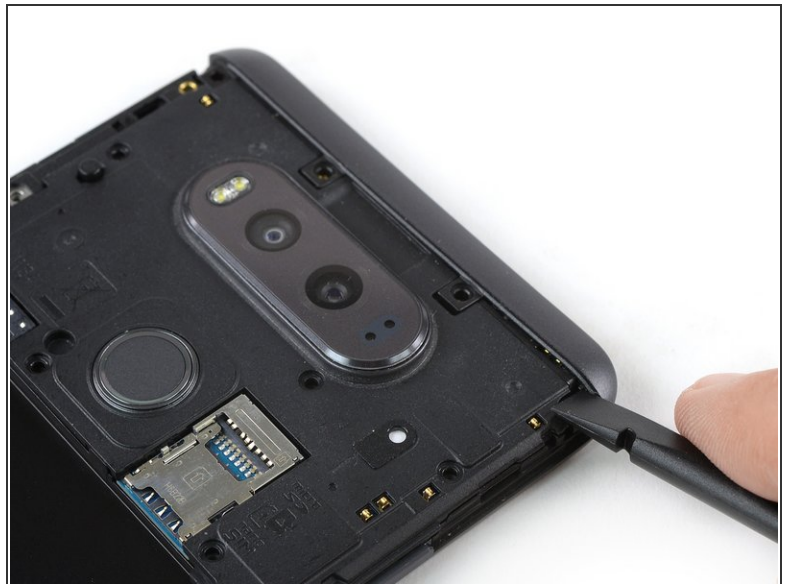
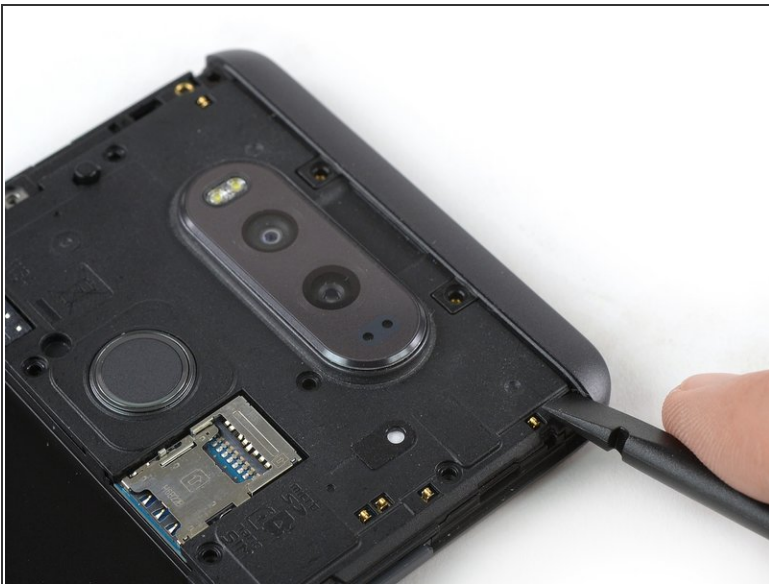
- Insert a spudger or your fingernail under the battery at the small recess on the lower edge.
 - Be careful not to deform or puncture the battery.
- Pry up and remove the battery.

Step 3 — Midframe Assembly



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

Step 4



- i** 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 5



- 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 6



- Remove the frame section.
- Repeat this procedure with the frame section on the other end of the phone.
- ⓘ Within the top frame section there's a small silver grating that covers the speaker. This may fall out, so be careful not to lose it.

Step 7



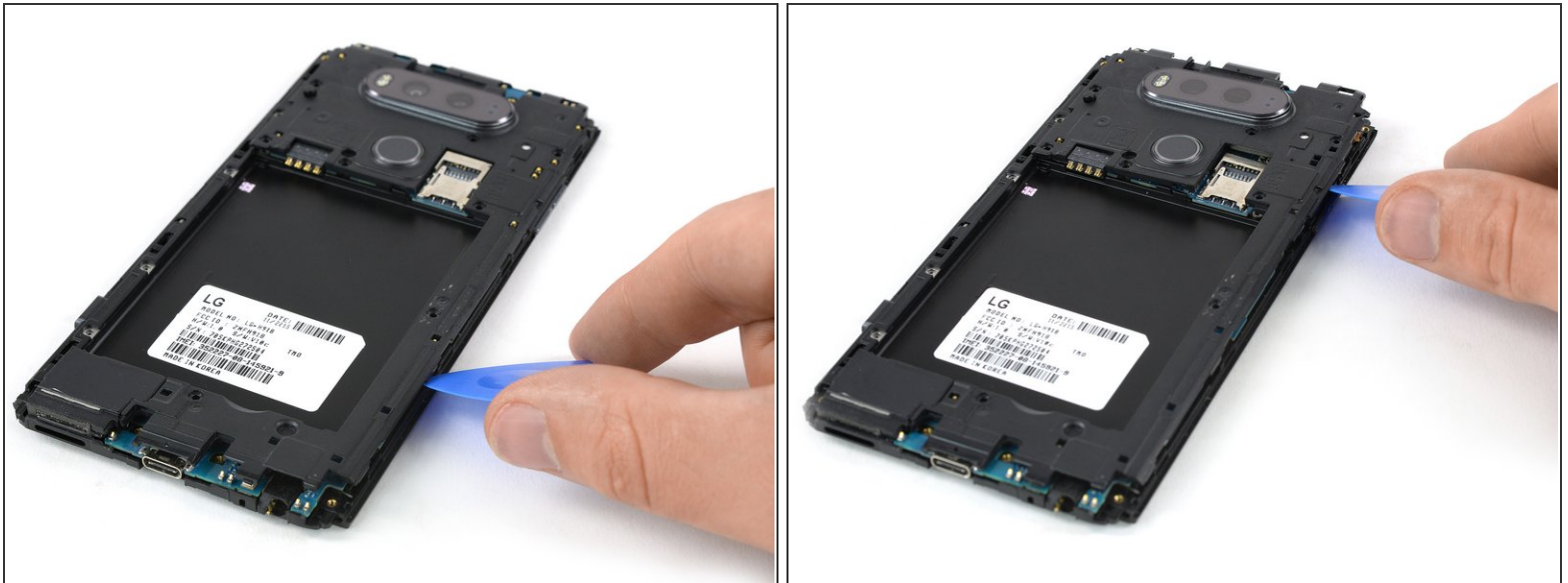
- The loudspeaker is attached to the cover of the motherboard. Use an opening pick to pry it up.

Step 8



- 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 9



- 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 10



- Remove the motherboard cover.

Step 11 — Front-Facing Camera



- Use the flat end of a spudger to disconnect the front camera flex cable.
- ❗ 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 12 — 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 13



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

Step 14



- 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.

Step 15 — Display



- Use a pair of tweezers to gently peel off the cable of the secondary screen at the top of your phone.

Step 16



- [Use an iOpener](#) to loosen the adhesive on all sides of the display.
 - ★ If your display glass is cracked, keep further breakage contained and prevent bodily harm during your repair by taping over the glass.
 - Lay overlapping strips of clear packing tape over the phone's display until the whole face is covered.
 - ⓘ This will keep glass shards contained and provide structural integrity when prying and lifting the display.
- ⚠ Wear safety glasses to protect your eyes from any glass shaken free during the repair.**

Step 17



- ✦ If the broken glass makes it difficult to get a suction cup to stick in the next few steps, try folding a strong piece of tape (such as duct tape) into a handle and lifting the display with that.
- Use a suction cup to lift the upper end of the display until you can insert the tip of an opening pick.
 - ⚠ Only insert the tip of the opening to not damage any components beneath the display.
- Slide the opening pick around all sides of the phone to cut the adhesive.
- Leave an opening pick in each corner of the phone to prevent the adhesive from resealing.
 - ⚠ Don't lift up the display straight away after you cut the adhesive on all sides. The two display cables are still threaded through the mid frame of the phone.

Step 18



- Gently thread the main display cable through the gap in the mid frame at the bottom end of your phone. Only lift the lower part of the display to do so.
- Gently thread the second display cable through the gap in the mid frame at the top of your phone.

Step 19



- Remove the display.
- Remove any remaining adhesive from the phone, and clean the glued areas with isopropyl alcohol and a lint-free cloth.

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

The best way to secure the new screen is with a sheet of custom-cut double-sided tape. Apply the tape to the back of the screen, then carefully feed the display and touchscreen cable through the frame. Align the screen and press it into place.