



Vivo X7 Repairability Assessment

Vivo X7 repairability assessment performed on January 9, 2017.

Written By: Andrew Optimus Goldheart



INTRODUCTION

Although the Vivo X7 has an easy to remove battery, it is extremely difficult to open the phone, thus earning the phone a 6 out of 10 on the repairability scale.

TOOLS:

- [iFixit Opening Tool](#) (1)
- [T2 Torx Screwdriver](#) (1)
- [Spudger](#) (1)
- [Tweezers](#) (1)
- [Metal Spudger](#) (1)
- [Phillips #00 Screwdriver](#) (1)

Step 1 — Vivo X7 Repairability Assessment



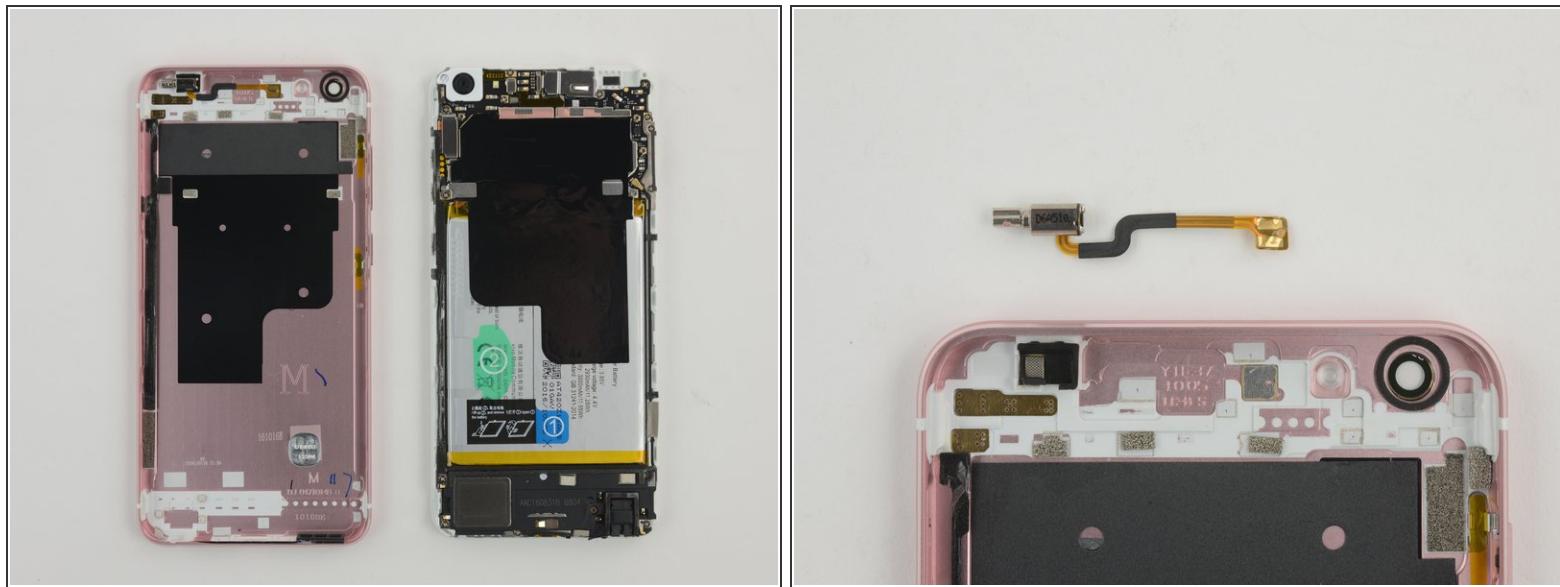
- Front and back reference shots.

Step 2



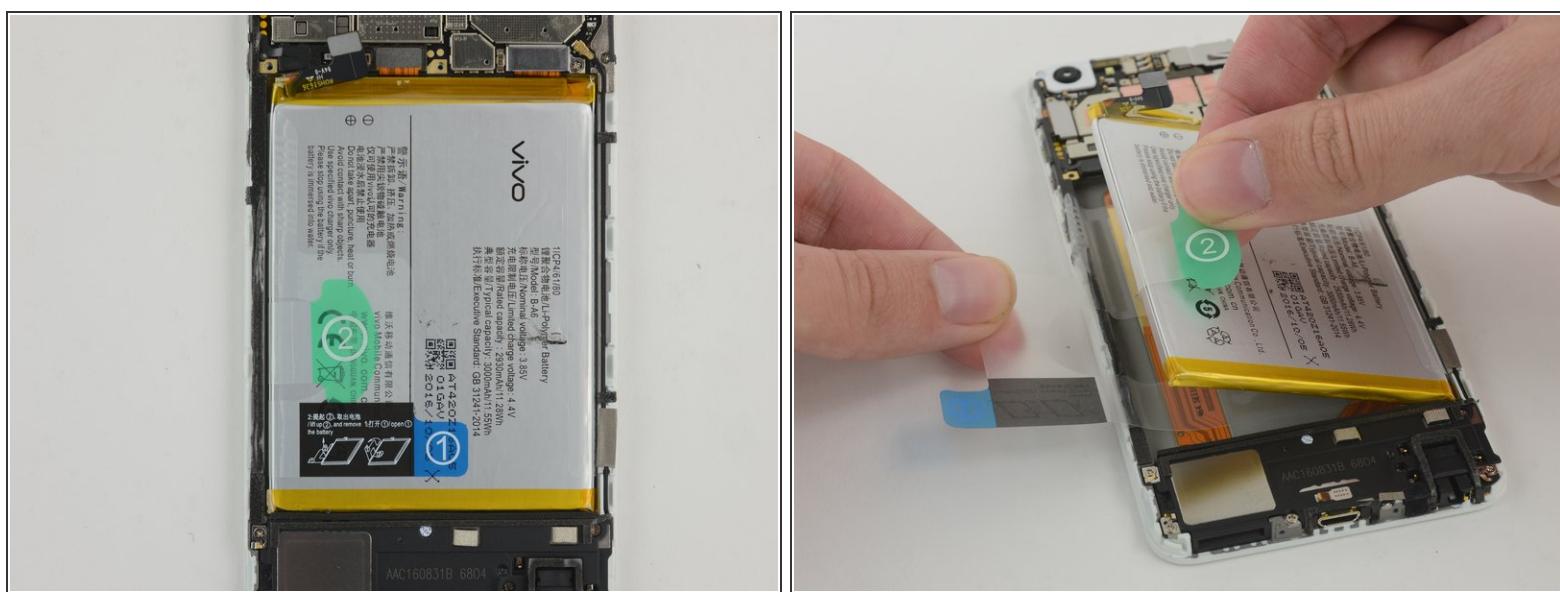
- Extremely stiff clips keep the phone closed, even after removing the two T2 Torx screws.
- Use of metal tools may be required, which could damage the device during opening.

Step 3



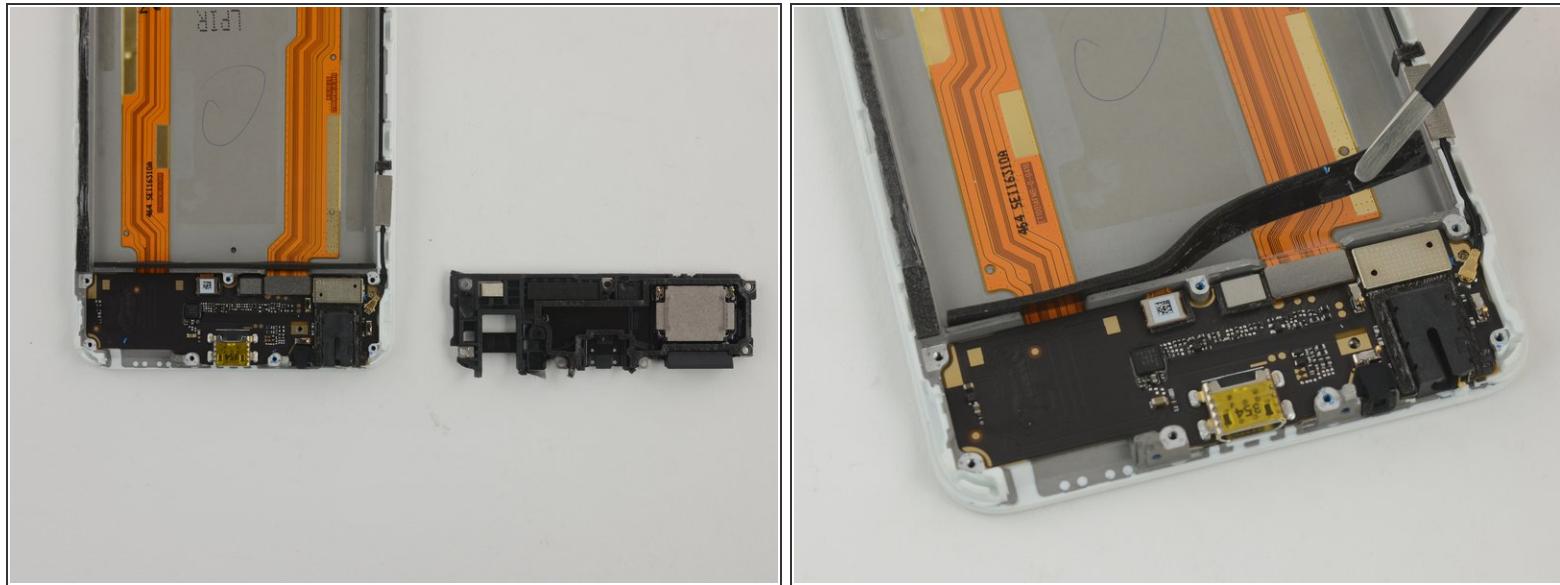
- View of the inside.
- The only component in the rear case is a modular vibrator.

Step 4



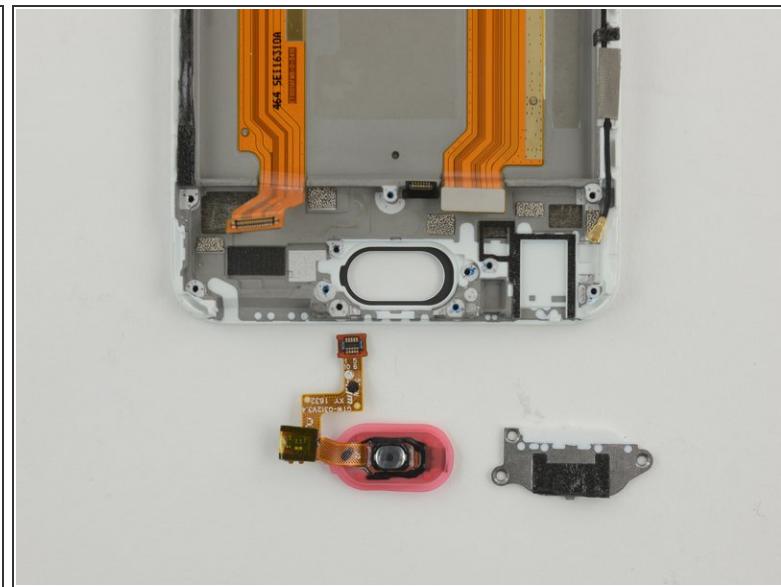
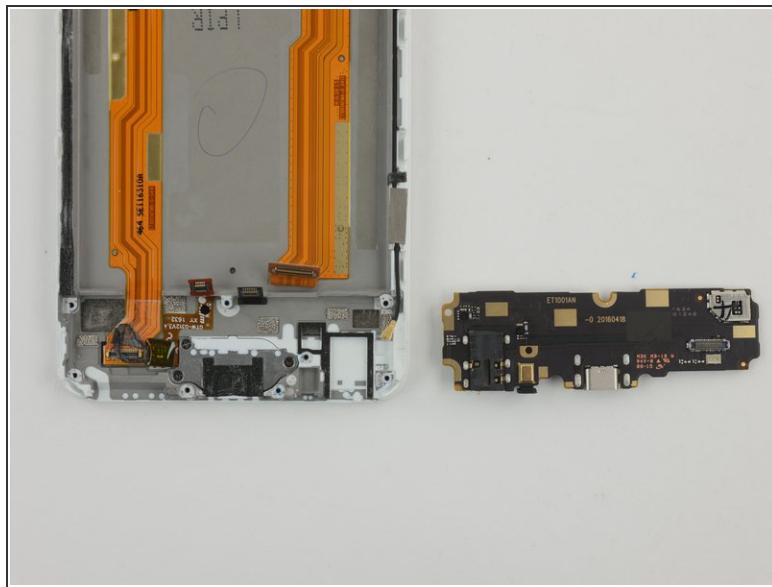
- Battery tabs are very handily labeled!
- And very effective!

Step 5



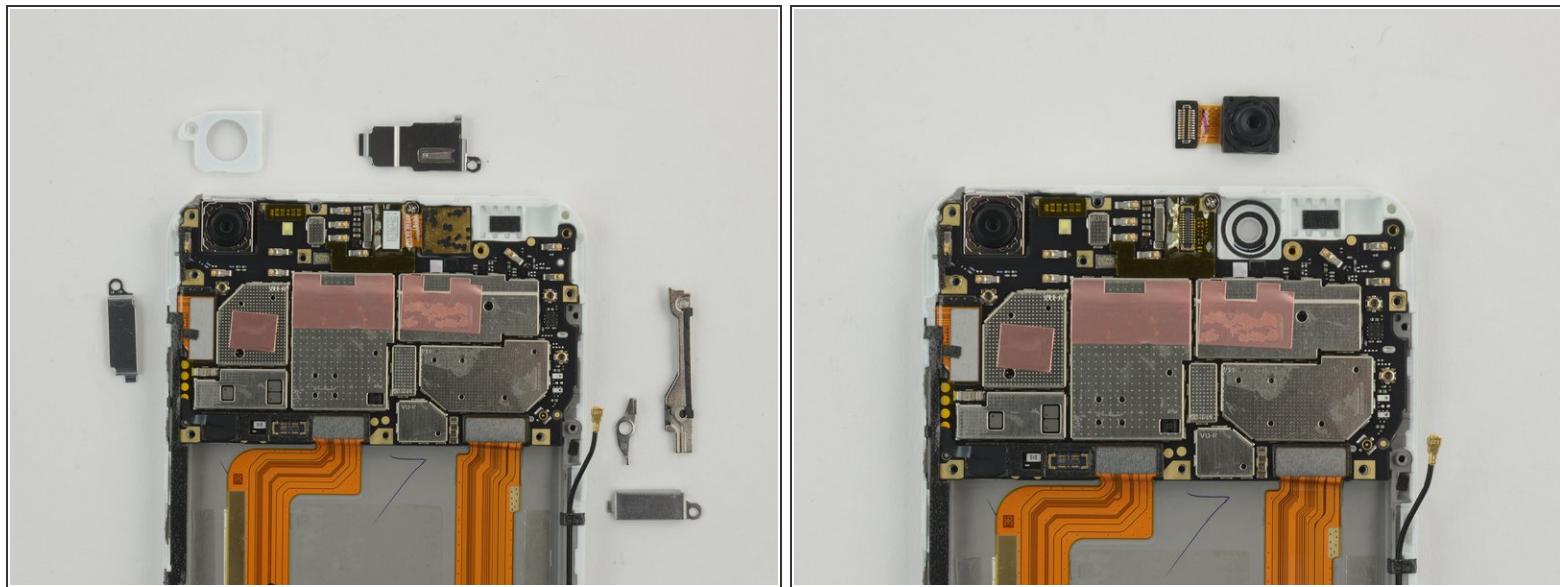
- Removing the speaker assembly from the daughterboard is simple enough, screws and light adhesive.
- This foam tape appears to be a moisture barrier. Annoying for reassembly, but might protect against water damage.

Step 6



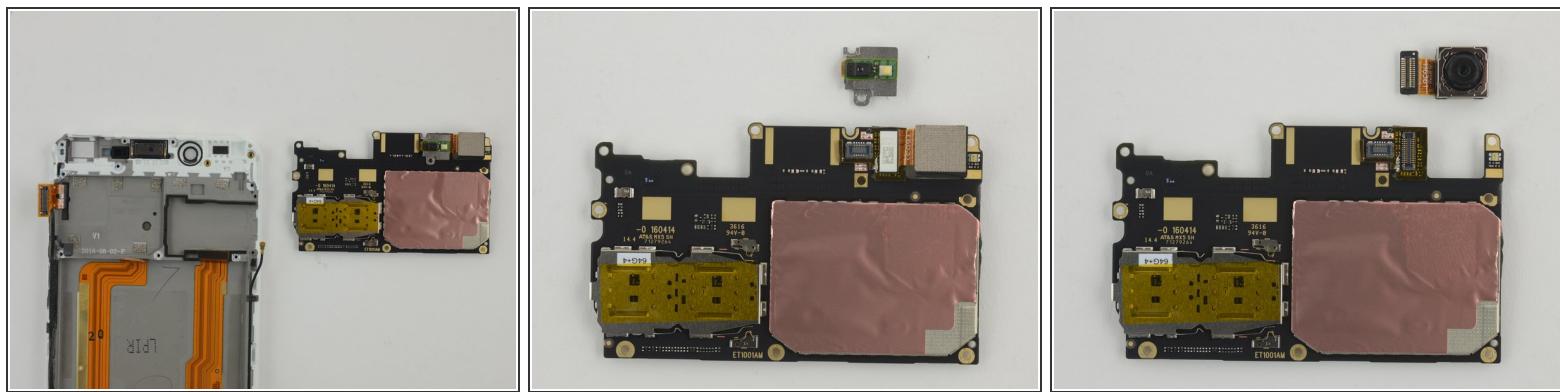
- Daughterboard has significant adhesive. Headphone jack and charging port are soldered to the board, making for more expensive replacements of either component.
- Under the daughterboard, home button bracket and home button come out easily.

Step 7



- First layer of components off the top end of the phone is a ton of brackets.
- The interconnect cables could be removed at this point as well.
- Only the front facing camera and SIM eject lever are removable before the motherboard.

Step 8



- Motherboard removed, only secured by screws.
- Proximity sensor/flash blocks the rear camera connector and must first be removed.
- Rear camera last thing off the main board.

Step 9



- Final components off of the display are the interconnect cables and earpiece speaker.
- The midframe-mounted fused display makes for an expensive part. The fact that it is the last part to be removed makes screen replacements time-intensive.

Step 10



- The Vivo X7 earns a **6 out of 10** on our repairability scale (10 is the easiest to repair):
 - Battery is fairly easily accessible and removable.
 - Parts could be more modular, especially mechanical/high wear components.
 - The opening procedure is extremely tough, clips are very stiff and likely to be broken.
 - The single unit display assembly is annoying to reach, and will be a costly part.
 - Manufacturer does not provide user-accessible repair documentation.