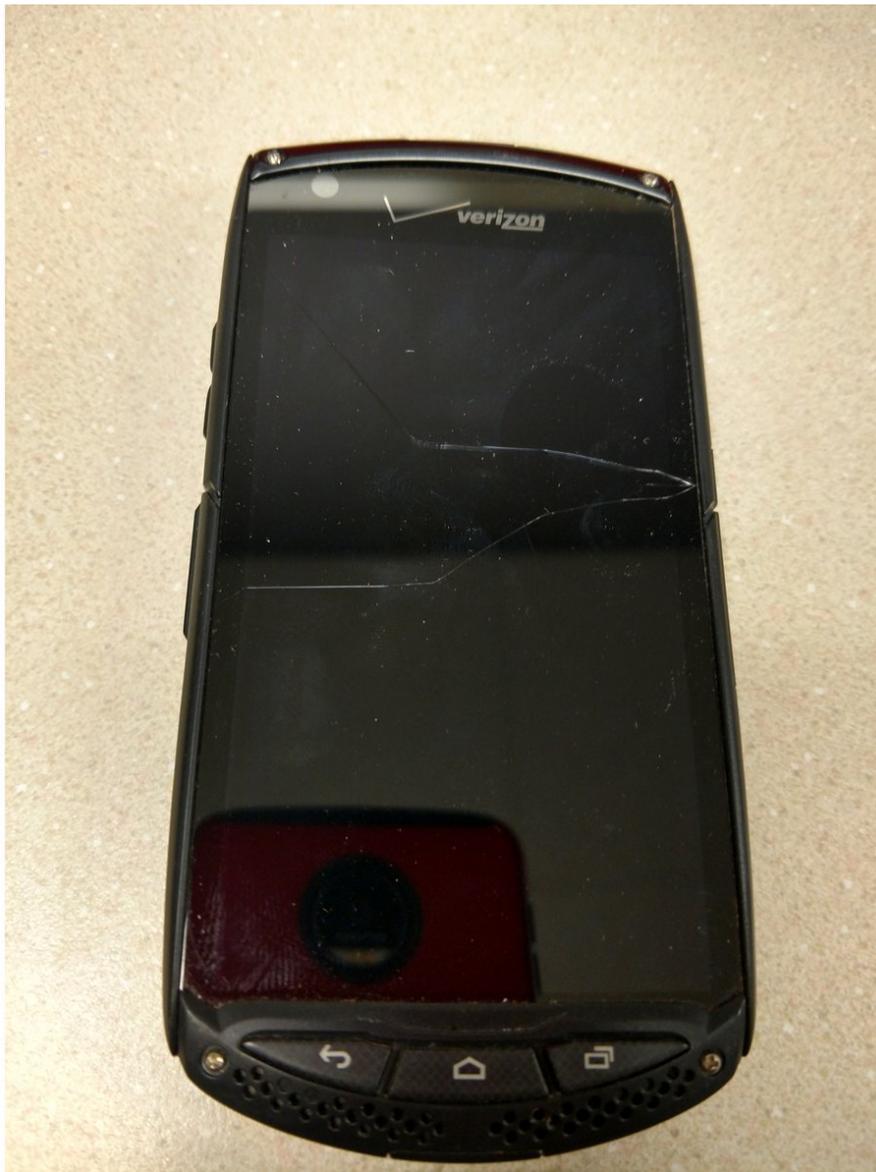




# Kyocera Brigadier Teardown

Teardown of the Kyocera Brigadier phone.

Written By: Jeremy Skrenes



 **TOOLS:**

- [Tri-point Y0 Screwdriver](#) (1)
  - [Phillips #00 Screwdriver](#) (1)
  - [Tweezers](#) (1)
  - [Spudger](#) (1)
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## Step 1 — Kyocera Brigadier Teardown



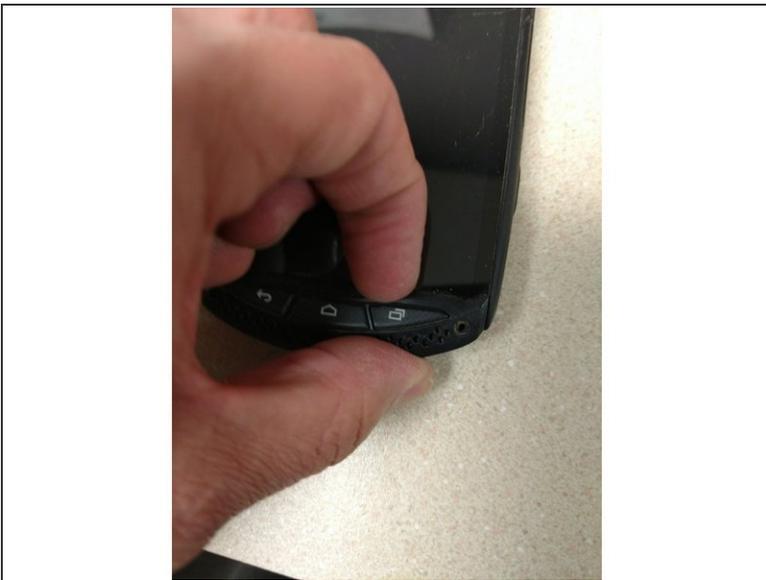
- Kyocera Brigadier Teardown
- Tools needed: Y0 screwdriver, P00 screwdriver, various metal pry tools including a small flathead screwdriver, precision tweezers
- This phone has a lot of sturdy clips holding it together, as well as some fairly tough adhesive.
- The earpiece is hardwired into the screen and the microphone is surface mounted onto the motherboard. About the only things that can be done to this phone are battery replacement, full screen replacement, and button, charging, or memory/sim card cover replacement.
- The charging door replacement is relatively easy, everything else is extremely difficult.
- The more drastic the teardown, the less water resistance you will have upon reassembly.

## Step 2



- Remove the four screws, one in each corner. Use a Y0 screwdriver bit.

## Step 3 — Bottom button removal



- Remove the bottom button cover.
- You should be able to pry this up with your fingernails.

## Step 4 — Top cover removal



- Pry the top cover up just like the bottom button array.
- Skip this step if all you are doing is a charging cover replacement.

## Step 5 — Back plate



- The two silver screws at the bottom of the back plate are decorative and cannot be removed from here.

## Step 6 — Charging door removal



- Pry open the bottom and lift out the charging door.
- In this case, the door was already broken, but you still need to remove the tab.
- If you are harvesting a charging port door from another phone, repeat the previous steps on the other phone, insert the functional charging door, and reverse the steps to reassemble.

## Step 7 — Outer frame removal



- Insert a small pry tool in the bottom right side of the phone between the frame and screen and pry a bit out.
- Insert a larger pry tool around the right corner of the phone and twist to release the outer frame clips.
- Remove buttons and port covers as you go along.

## Step 8 — Button removal



- Each button has a rubber grommet over the inside to keep it water resistant. Be sure to remove those if they don't pop out with the buttons, setting them aside together for reassembly.

## Step 9



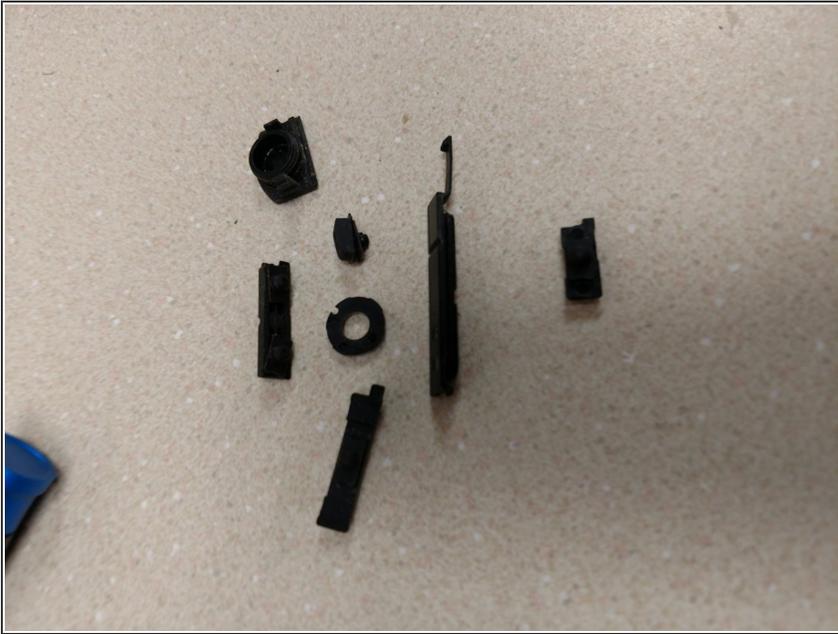
- Continue working around the left side of the back frame.

## Step 10 — Back Frame Removal



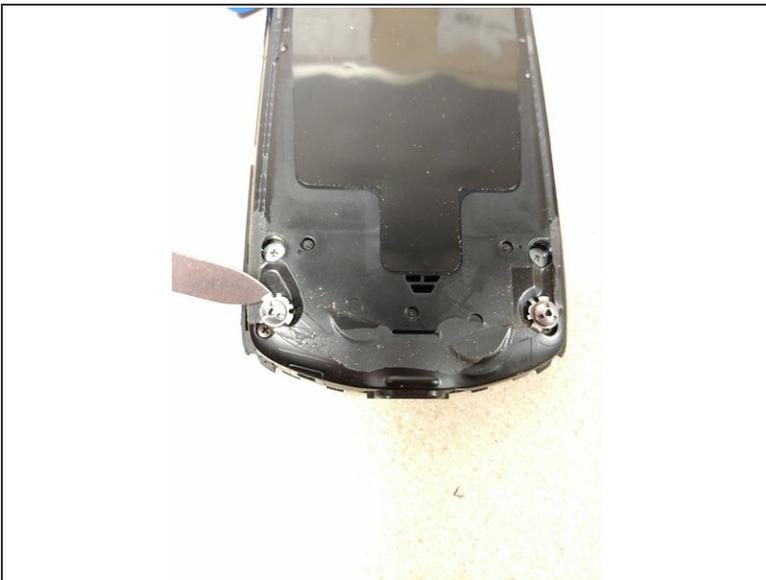
- There is some adhesive on the top of the phone. It shouldn't take much force to remove.

## Step 11 — Button and camera flash cover removal



- Remove any other buttons, grommets, etc that didn't fall out as you removed the back plate.
- The cover to the camera flash will probably fall out as you remove the back plate.

## Step 12 — Decorative "screw" removal



- Remove the decorative screws by lifting them up.

## Step 13 — Mid Frame screw removal



- There are four small black screws in the corners and two large silver screws above the bottom pair of black screws.
- These are Phillips P00 size.
- You may have some sealant goo to work around.

## Step 14 — Mid Frame Removal



- There are about 7 clips like this. They look like clips from an OtterBox Defender case.
- Use a small flathead screwdriver to pry them open. You're probably going to break one or two.
- Start at the top and work your way down.
- There is some pretty strong sealant here and the clips are small and tight. This takes some force.
- Be careful not to break the frame when you get to the bottom of the phone.

## Step 15 — Remove the mid frame



- Finish removing and lifting away the mid frame
- Remove the battery as well
- If you are replacing the battery only, insert a new battery and reassemble by reversing the steps.

## Step 16 — Motherboard screw removal



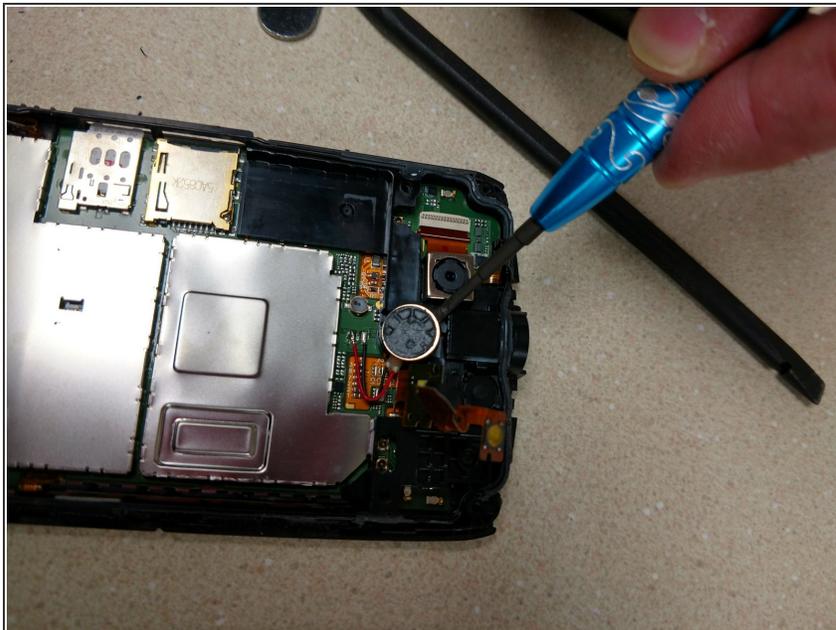
- Remove the two Phillips screws on the motherboard at the top and one at the bottom.

## Step 17 — Speakerphone switch removal



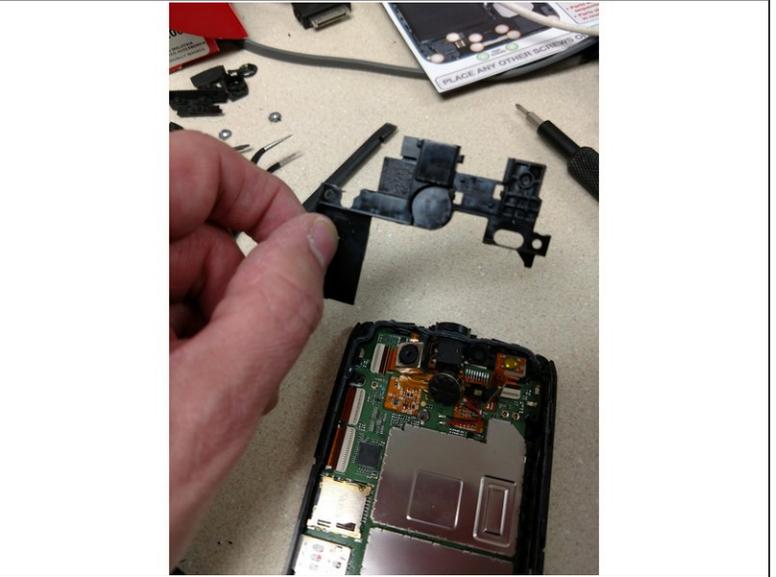
- Remove the speakerphone button by lifting it up and out.
- Metal tools seem to work better, just be careful not to cut any of the flex cable.
- There is a gasket that covers this piece. Set this aside for reassembly.

## Step 18 — Vibrate motor removal



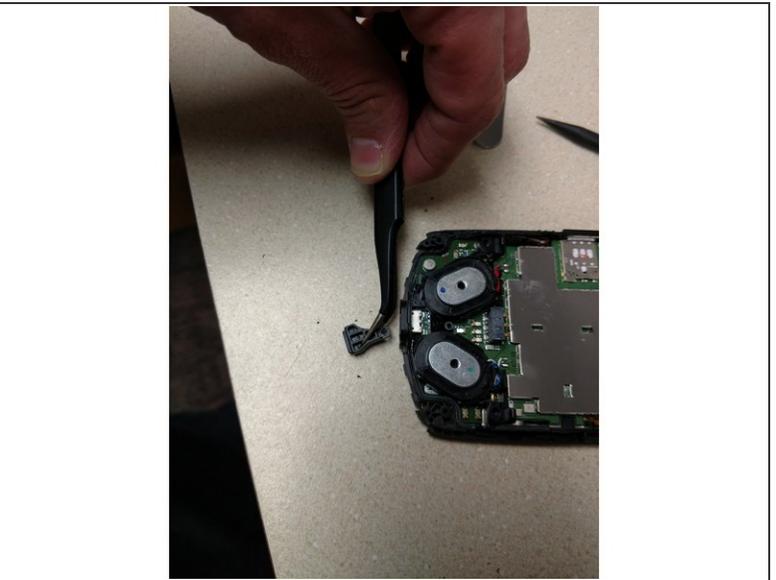
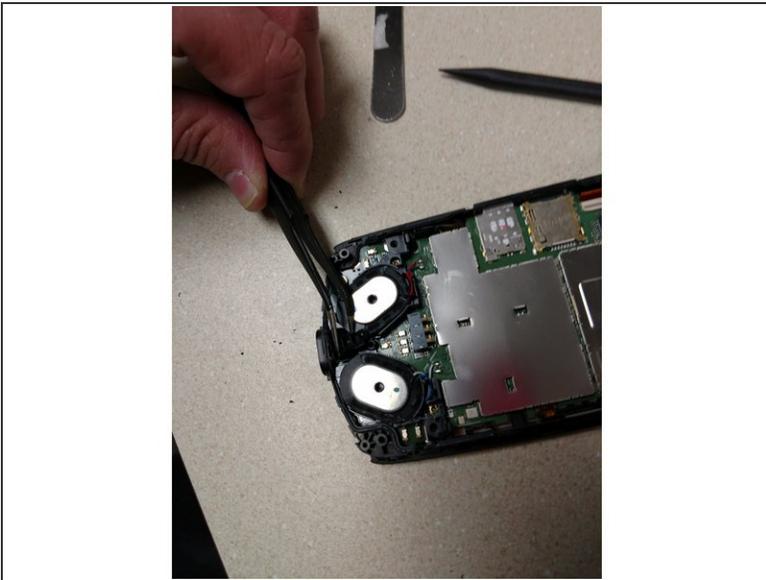
- Lift the vibrate motor out. It is held in by some mild adhesive.

## Step 19 — Motherboard top cover removal



- Remove the motherboard top cover.
- There may be some adhesive around where my thumb is.

## Step 20 — Motherboard bottom cover removal



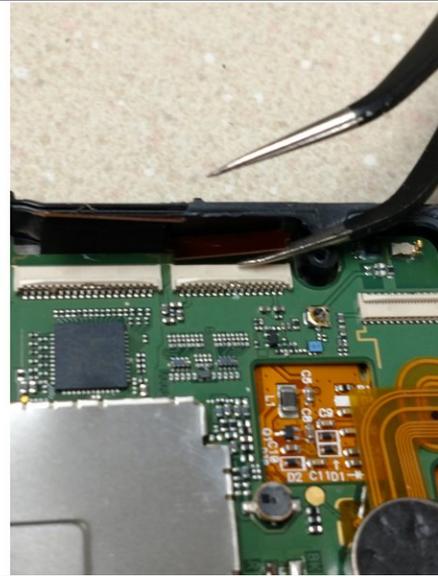
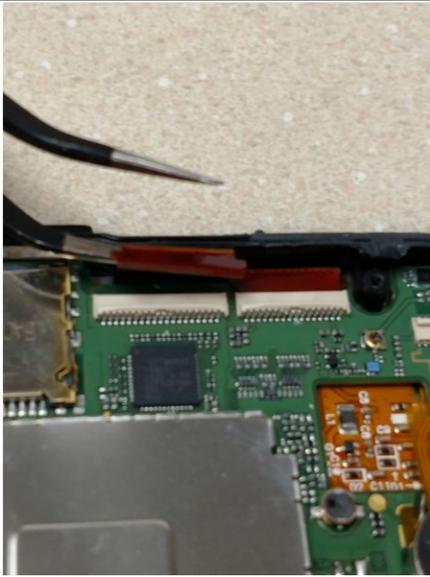
- Remove the bottom cover for the motherboard between the two speakers.

## Step 21 — Rear camera removal (optional)



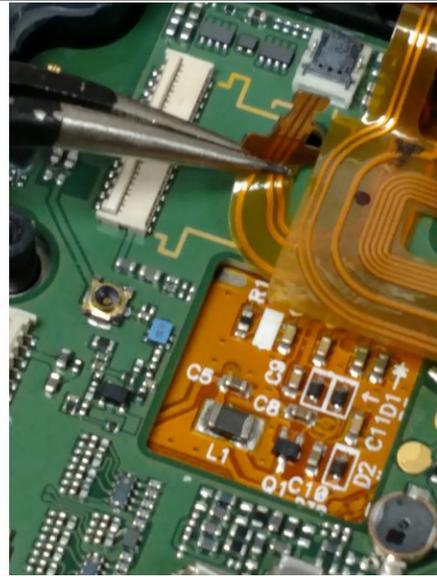
- Flip open the cable cover door and remove the camera.
- This isn't required, but it does make getting to the rest of the cables easier.

## Step 22 — Digitizer and screen cable removal



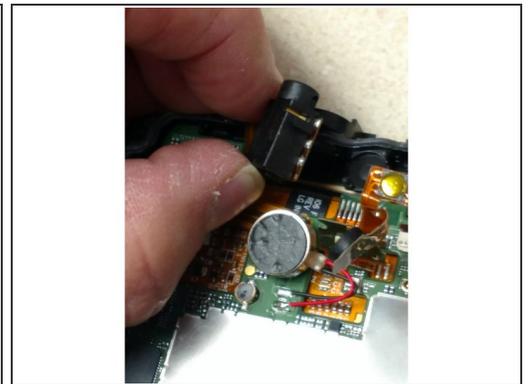
- Open the cable doors and remove the cables for the digitizer and touch screen connections.
- Small metal tweezers are the easiest to use here, but be careful not to break the cables.
- Reversing this step is rather challenging.

## Step 23 — Earpiece flex cable removal



- Use tweezers to open the earpiece flex cable cover and lift out the cable.
- The earpiece is part of the glass screen and cannot be replaced.
- Again, metal tweezers work best, but be careful.

## Step 24 — Button and headphone jack removal



- Remove the side buttons with tweezers (carefully)
- The headphone jack can be lifted out by hand

## Step 25 — Motherboard removal



- Make sure your sim card is removed
- Begin lifting the motherboard out.
- There is some adhesive in the bottom left of the phone, use a plastic spudger to cut through it.

## Step 26 — Finished



- Lift the motherboard out.
- Attaching a new screen is about all you can do at this point.
- To reassemble, reverse the directions.
- Having a handy clamp or "third hand" may be useful in holding apart some of the ribbon cables.