CELLAIRIS®
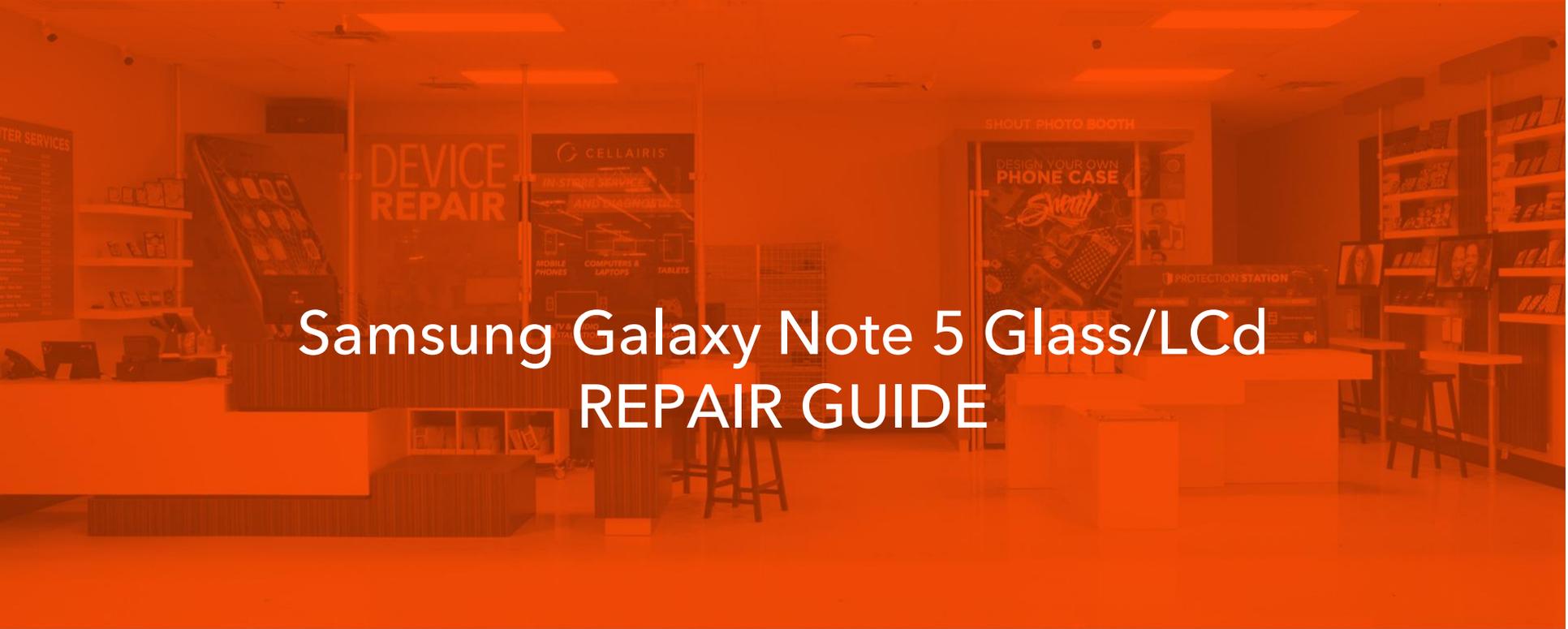
Galaxy Note 5 Glass/Lcd REPAIR GUIDE

Version 1
2016 Edition

Samsung Galaxy Note 5 Glass/LCd REPAIR GUIDE

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REMINDER

FOR EVERY REPAIR

MAKE SURE TO COMPLETE, INITIAL,

AND HAVE CUSTOMER SIGN THE CELLAIRIS

REPAIR LIABILITY WAIVER FORM

PRE-REPAIR DEVICE CHECK-IN

	Pre-Repair Device Inspection			Post-Repair Device Inspection		
Liquid Damage:	☐ Yes	☐ NO	☐ N/A	☐ Yes	☐ NO	☐ N/A
Jailbroken or Rooted:	☐ Yes	☐ NO	☐ N/A			
Unlocked or Flashed:	☐ Yes	☐ NO	☐ N/A			
Previously Repaired:	☐ Yes	☐ NO	☐ N/A			
Frame Damage:	☐ Yes	☐ NO	☐ N/A	☐ Yes	☐ NO	☐ N/A
Digitizer Damage:	☐ Yes	☐ NO	☐ N/A	☐ Yes	☐ NO	☐ N/A
LCD Damage:	☐ Yes	☐ NO	☐ N/A	☐ Yes	☐ NO	☐ N/A
Device is unable to be turned on prior to repair for Device Inspection	☐ Yes	☐ NO				
	Yes (Working)	No (Not Working)		Yes (Working)	No (Not Working)	
Volume Button:	☐ Yes	☐ NO	☐ N/A	☐ Yes	☐ NO	☐ N/A
Mute Switch:	☐ Yes	☐ NO	☐ N/A	☐ Yes	☐ NO	☐ N/A
Vibration :	☐ Yes	☐ NO	☐ N/A	☐ Yes	☐ NO	☐ N/A
Power Button:	☐ Yes	☐ NO	☐ N/A	☐ Yes	☐ NO	☐ N/A
Home Button:	☐ Yes	☐ NO	☐ N/A	☐ Yes	☐ NO	☐ N/A
WiFi:	☐ Yes	☐ NO	☐ N/A	☐ Yes	☐ NO	☐ N/A
Cell Service/Call:	☐ Yes	☐ NO	☐ N/A	☐ Yes	☐ NO	☐ N/A
Proximity Sensor:	☐ Yes	☐ NO	☐ N/A	☐ Yes	☐ NO	☐ N/A
Ear Speaker:	☐ Yes	☐ NO	☐ N/A	☐ Yes	☐ NO	☐ N/A
Phone Microphone:	☐ Yes	☐ NO	☐ N/A	☐ Yes	☐ NO	☐ N/A
External Speaker:	☐ Yes	☐ NO	☐ N/A	☐ Yes	☐ NO	☐ N/A
External Microphone:	☐ Yes	☐ NO	☐ N/A	☐ Yes	☐ NO	☐ N/A
Headphone Jack:	☐ Yes	☐ NO	☐ N/A	☐ Yes	☐ NO	☐ N/A
Rear Facing Camera & Flash:	☐ Yes	☐ NO	☐ N/A	☐ Yes	☐ NO	☐ N/A
Front Facing Camera:	☐ Yes	☐ NO	☐ N/A	☐ Yes	☐ NO	☐ N/A
Charge Port:	☐ Yes	☐ NO	☐ N/A	☐ Yes	☐ NO	☐ N/A
Fingerprint Scanner:	☐ Yes	☐ NO	☐ N/A	☐ Yes	☐ NO	☐ N/A

TOOLS NEEDED

- Philips screwdriver

- Spudger

- Tweezers

- Isesamo

- Pentalobe screwdriver

- Magnetic Mat

- Note 5 Digitizer/LCD

HEAT-GUN PRECAUTIONS

- Always operate the heat gun on the lowest setting.

- Keep face, hands, hair, and clothing away from the air stream.

- The air nozzle also becomes extremely hot. Never grab the heat gun by the nozzle.

- Never operate the heat gun by laying it on its side on a table. It should be firmly grasped in one hand at all times during usage.

- Never operate near flammable or explosive liquids and vapors. Cleaning supplies and the 3M #94 Primer are of concern. Make sure fumes are absent from the work area before operating the heat gun

- The heat gun nozzle should never get closer than 2" to the object being heated.

- Keep heat gun moving. Never stay in one spot.

ADDITIONAL PRECAUTIONS

- Magnetic Pad: During the repair, you will be utilizing a magnetic pad to organize the plethora of differing screws that you will be pulling out of the iPhone 6S. Below is a list of several internal components of the iPhone 6S that should never be placed on the pad, or you risk damaging the hardware or erasing client data:
  - LCD/Digitizer Assembly
  - Cameras
  - Motherboard
  - Battery
  - Speaker

ADDITIONAL PRECAUTIONS

- **Power on/off:** To avoid any damage to the hardware during the repair, it is best to have the device powered off until you can get to and disconnect the battery.

- **Battery:** Never unplug any flex cables unless the battery has been completely disconnected to avoid frying your hardware. Do not plug the battery back until all cables have been reconnected.

- **Release Screws:** Apply pressure on the screw and twist counterclockwise to initially loosen it, then lighten the pressure and continue twisting until the screw is gently released. Make sure you have properly sized screwdrivers available for the repair.

- **Pin Connectors:** extremely fragile and must be plugged or unplugged with extreme caution.

- **Battery connector:** held down by light adhesive and solder. If not cautious it will come off the motherboard. Very time consuming to be repaired. Do not break it in the first place.

- **Motherboard:** small surface mount components can be easily damaged if they are nicked by the spudger. Always take your time and never touch the surface of the motherboard.

STEP 1
Disassemble the device

- Power off device.

- Remove sim card.

STEP 2
Disassemble the device

- The next step requires you to heat around the frame of the back glass. Now when you heat around the frame do it in a constant movement do not let it rest in just one area.

- The glass only has adhesive in particular areas outlined on the edge of the glass.

- You will need to use some type of cards or thin picks so slide underneath each part of glass you release from the adhesive so it doesn't stick back down.

- Take the isesamo or painters knife and slide it in between where the glass and frame meet. You want to slide it around the frame if it seems the adhesive has cooled down heat around the frame again. This process you will continue as you try to loosen up the whole back glass.

STEP 3
Disassemble the device

- Now that the back glass is removed.

- Unscrew the twenty (20) Philips screws with the Philips screwdriver.

- Peel back black tape to expose the battery (area pointed out with Red arrows).

- Disconnect the battery cable.
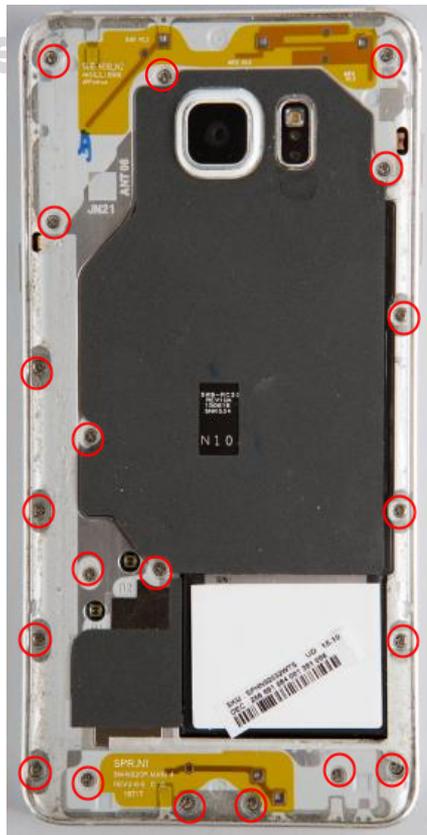
STEP 4

Disassemble the device

1

2

3

4

5
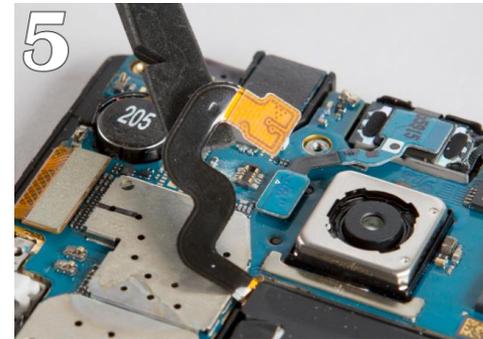
- Once the black tape is pulled back use your thumb to help push the frame from the display.

- The black tape covers the battery so now that the battery is exposed it allows room to separate the frame from glass display.

- Now, that the frame and display is separated we can now focus on removing the motherboard off of back housing.

- Start by disconnecting the battery cable.

STEP 5

Disassemble the device
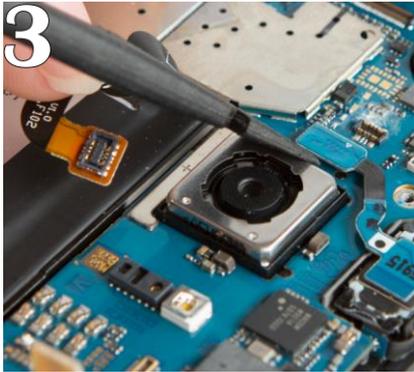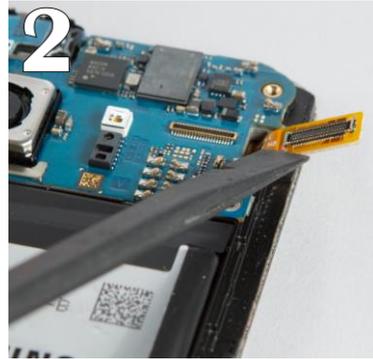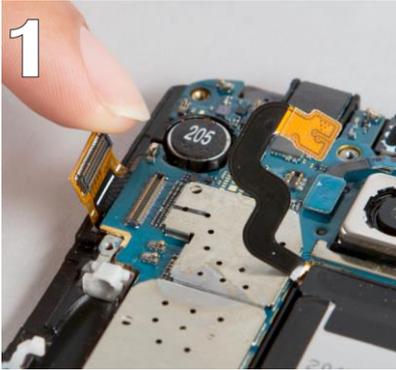
- Disconnect the Lcd flex cable.
- Then the ear speaker cable above the camera.
- Next, disconnect the Digitizer cable.
- Moving down the board disconnect the two antennas one is white and the other blue.
- Underneath those cables is a blue flex cable disconnect. As you start to lift the motherboard you will notice the chargeport cable connected underneath board make sure to disconnect the cable.
- Remove motherboard put it in a safe place to the side.

STEP 6
Disassemble the device

- Once the motherboard is all disconnected and removed it is time to separate the old assembly from the frame of the device. Turn device over to the front of the glass and heat. It does not matter if you heat to long on that side because most likely the lcd is already damaged.

- Step 8, will show all the steps necessary to remove the assembly. First, start by taking your pry tool: isesamo or painters knife and slide it in between the frame of device and glass. The goal is to place tool behind the glass and Lcd as you slide tool down and, flex from left to right with tool to release it from the adhesive.
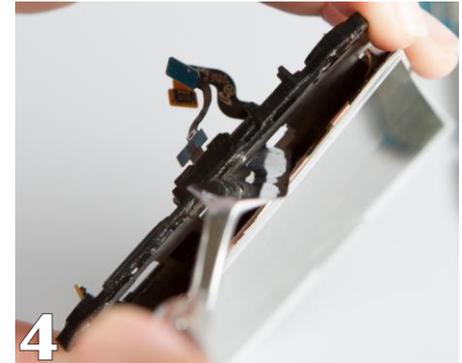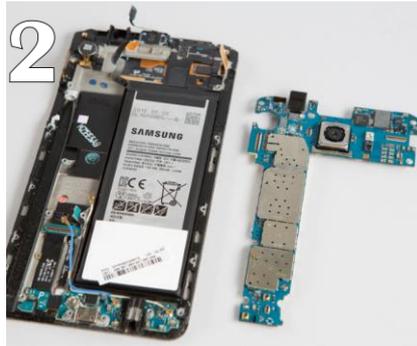
STEP 7
Disassemble the device

- The closer you get to the bottom of the glass be aware there are two flex cables attached by adhesive. Heating the front of the glass in that area will help loosen the adhesive.
- Once you can see down into the frame in between the lcd and frame start by using your pry tool to lay down the flex cables to frame not adhered to the glass.
- The glass should be clear to pull off now that all components are in place and not attached to old assembly.
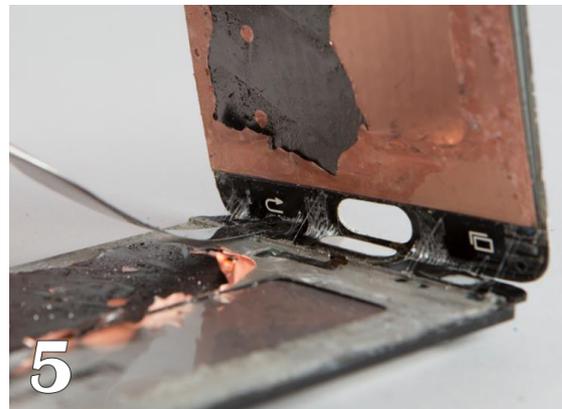
STEP 1

Reassemble of Device

1

2

3
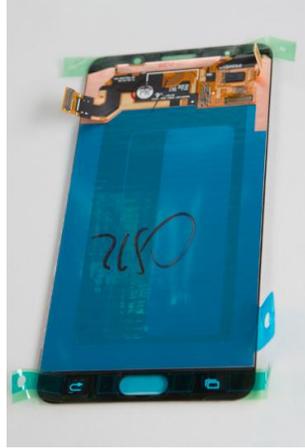
- Use a scraping tool to clean the frame of old adhesive and remaining glass shards. (PDI pads are good for removing adhesive) (area shown by red arrows).
- Most new assemblies come with new adhesive so take all plastic tape off covering the adhesive.
- Place new assembly on the frame in the correct position. You will want to test fit the new assembly to the frame reassuring that the Digitizer/LCD cables fit with the motherboard already attached to back housing.
- Put motherboard back onto the Plastic frame. I say put new assembly on as you lay the motherboard back down on frame. It makes the fit easier so the lcd cable isn't pulling awkwardly through the frame.
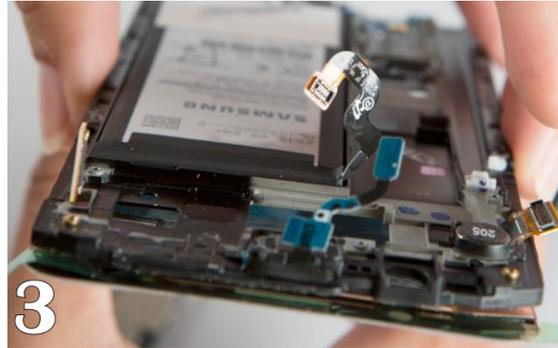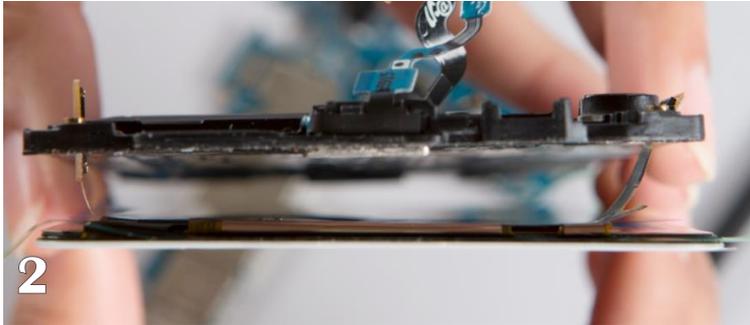
STEP 2

- After the motherboard is positioned properly reconnect all components and cables but, make sure the battery is reconnected last.

- Place back housing over the device by starting at the bottom, lining the chargeport into the socket designated for it. Push down on the top of the glass display because the top has hinges that need to be cleared before frame fits all the way into the frame.

- Smooth out the glass with your hands as you lay it in flush. Do not force it on first try might mean it needs to be pulled out and repositioned.
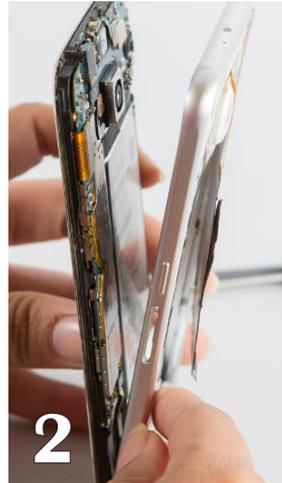
STEP 3

Reassemble of Device

- We can now screw in all the twenty (20) Philips screws with a Philips screw driver.
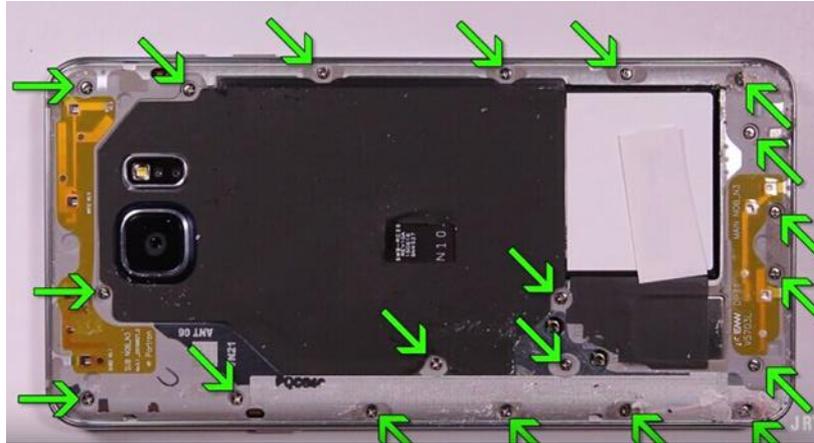
STEP 4

- Next, put the back glass back on now if it's the original glass you might need to add a thin layer of adhesive around the frame of the back glass. Outlined with the white shade of tape around the frame. If it's a replacement back glass and doesn't come with adhesive on it definitely add some around the frame. Then apply back glass to phone. Smooth around the back with your hands to help seal.
- Power on device and do post test.

STEP 6

- Run through each of these test for the post test.

Troubleshooting

- After the repair is done make sure the touch is responsive. If you notice that the touch is delayed could mean the part is defective. Try a new one.

CONTACT

REPAIR TRAINING

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