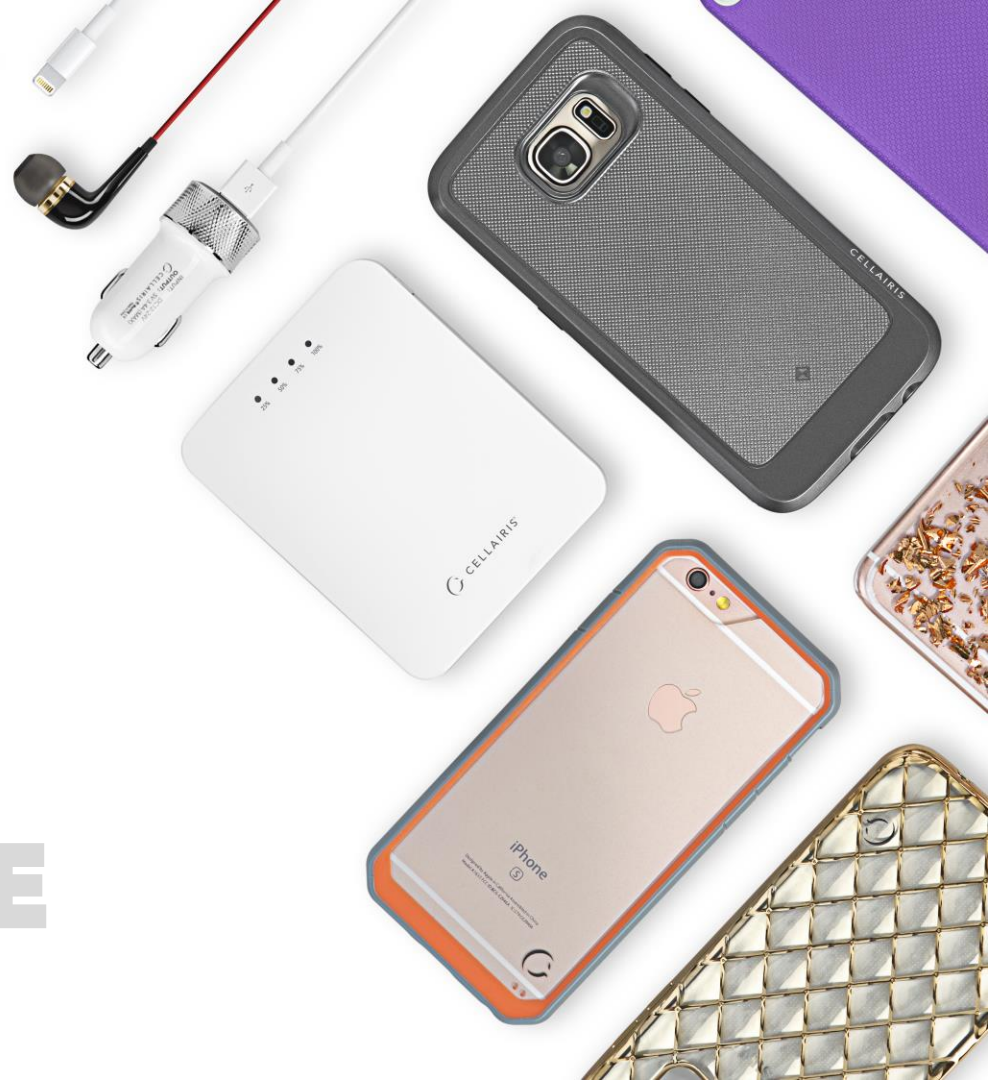





Galaxy S7 Glass/Lcd REPAIR GUIDE

Version 1
2016 Edition





Samsung Galaxy S7 Glass/LCd REPAIR GUIDE

RiAna Soto
Repair Training Specialist
rsoto@cellairis.com



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



TOOLS NEEDED

- Philips screwdriver
- Spudger
- Tweezers
- Isesamo
- Pentalobe screwdriver
- Magnetic Mat
- Samsung galaxy s7 Digitizer/LCD



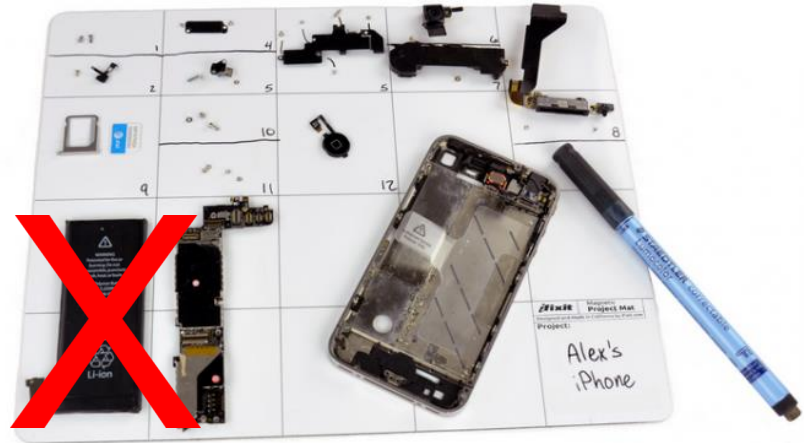
HEAT-GUN PRECAUTIONS

- 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.



Tools: sim card ejector

STEP 1

Disassemble the device



- Power off device.
- Remove sim card.



STEP 2

Disassemble the device

Tools: isesamo or painters knife, heat gun, plastic cards



- 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.
- You will need to use some type of cards or thin picks so slide underneath each part 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

Tools: Spudger, fingers,
Philips screwdriver

Disassemble the device

- Now that the back glass is removed.
- Unscrew the twelve (12) Philips screws.
- Peel back black tape to expose the battery but only peel tape up slightly do not remove.
- Remove the three pieces of the black plastic back housing to expose the motherboard. Use plastic spudger or your hands.

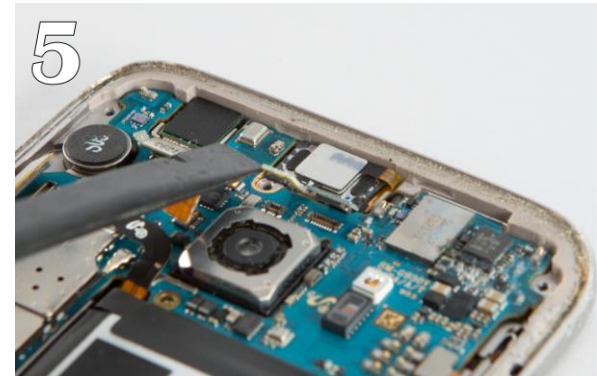
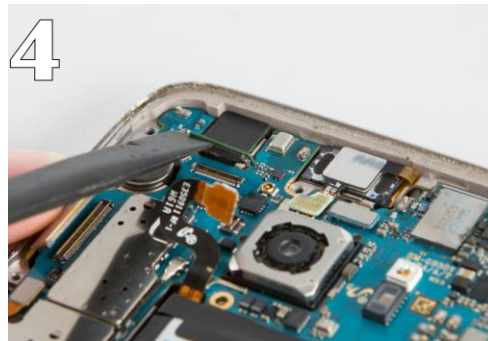
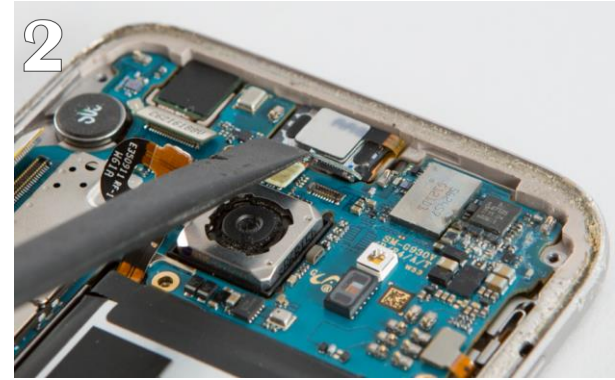
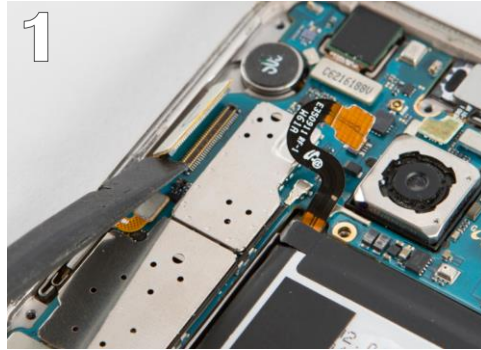


STEP 4

Disassemble the device

- Disconnect all flex cables

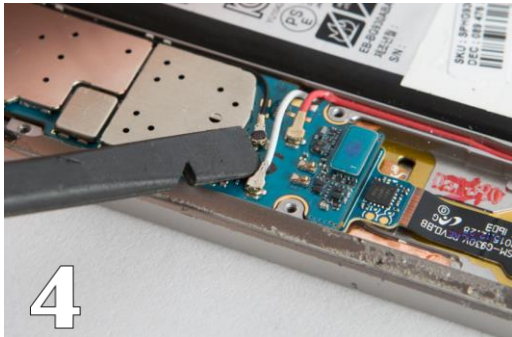
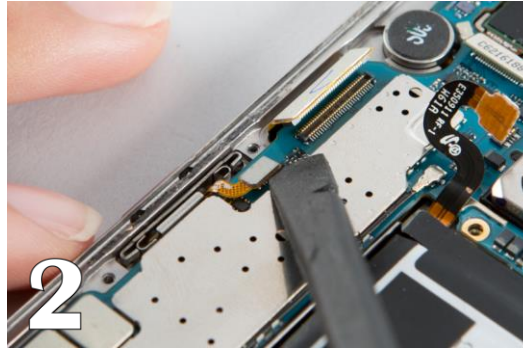
Tools: spudger, tweezers



STEP 5

Tools: spudger, tweezers

Disassemble the device (step 4.)

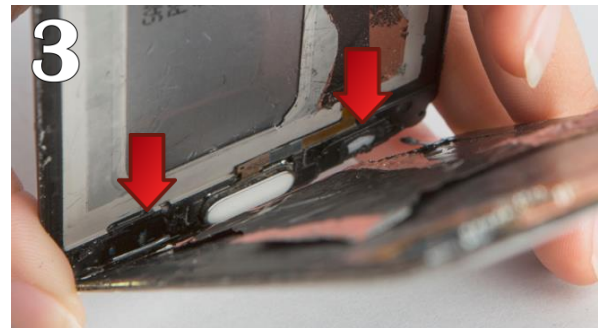
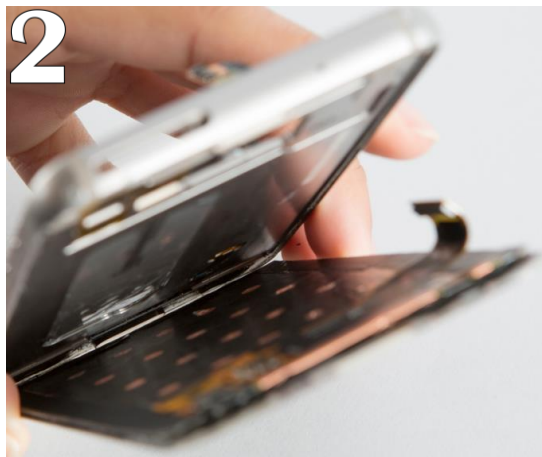
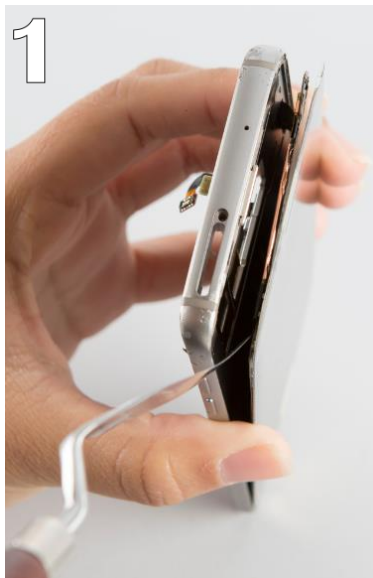


Tools: spudger, tweezers, Ilesamo or painters Knife

Tips: refer to step 7 before starting step 6

STEP 6

Disassemble the device



- Remove the motherboard once all components are disconnected.
- Heat the front glass display using a constant motion around the edge of the glass then use your painters knife or metal pry tool to slide in between the frame of the phone and LCD. Take the tool and slide the tip in between glass and frame of device.
- As you slide in between use pry tool and flex from left to right to help separate the adhesive.
- Pay close attention to the bottom back and menu flex cables!



Tools: Heat gun, spudger, isesamo or painters Knife

STEP 7

Disassemble the device

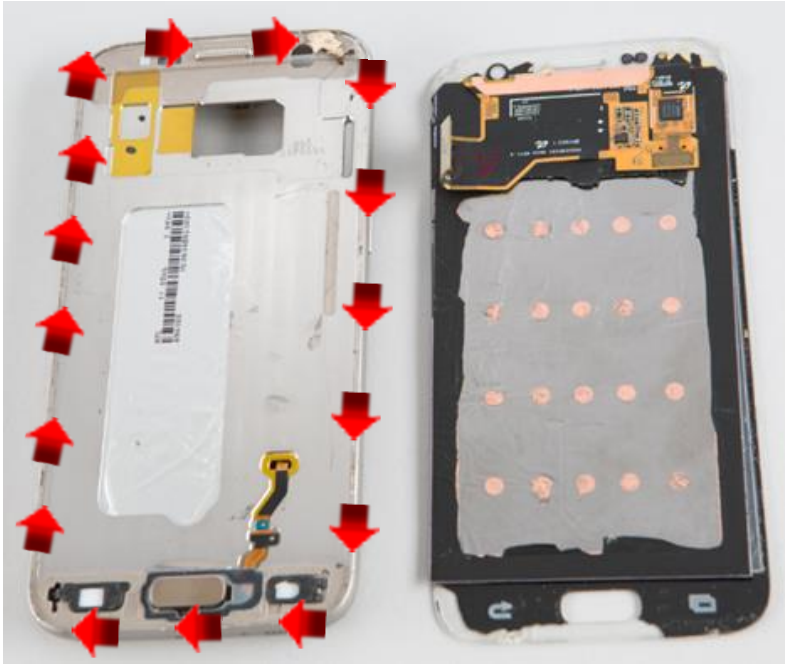
- It's important heat the bottom area of glass display near home button because those flex cables are adhered to the glass. We do not want tare these cables so it's important to look underneath the lcd to help separate those cables.
- Now that the cables are clear you will be able to pull original assembly off the frame.



Tools: isesamo, PDI pads, Fingers

STEP 8

Disassemble of Device



- Once the full assembly is removed from the frame we can clean the frame of device. Remove any remaining glass shards or old adhesive. Outlined with red arrows use isesamo or, any scraping tool to clean the frame. PDI pads are good to use for the purpose of caked up adhesive.
- The disassembly done properly should be separated like such.



Tools: spudger, Fingers

STEP 1

Reassemble of Device

- After, the old assembly is removed and frame is clean it is now time to put new assembly on device.
- Start by test fit the new Lcd by making sure the cable fits on motherboard and doesn't appear to have tension pulling the cable. Once the new assembly is adhered to frame put motherboard back on.
- Reconnect all flex cables as well as antenna cables. Reconnect Battery.
- Place rear backing back over the motherboard this will be a three piece process.



Tools: Philips screwdriver, Fingers

STEP 2

Reassemble of Device

- Now that the rear housing is back on it is now time to screw down all twelve (12) Philips screws with a Philips screw driver.




STEP 3

- 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.



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

 **CELLAIRIS** CUSTOMER DEVICE INFORMATION SHEET AND LIABILITY WAIVER

First Name:													
Last Name:													
Phone Number (last 4 of the Device being serviced):							Phone Number to Device being serviced:						
Email Address:													
Service Requested:							Price Quoted:						
Customer Address													
	Address			City			State			Zip			
Device Information:	Phone Manufacturer: <input type="checkbox"/> Apple <input type="checkbox"/> Samsung <input type="checkbox"/> LG <input type="checkbox"/> HTC <input type="checkbox"/> Other: _____												
	Model:			Storage Size:			Color:			Carrier:			
	IMEI/Serial Number:						Passcode:						
Remember to attach receipt to completed paperwork.	Today's Date:			Arrival Time:			Due/Pick-up Date:			Due/Pick-up Time:			
	Pre-Repair Device Inspection						Post-Repair Device Inspection						
Liquid Damage:	<input type="checkbox"/> Yes	<input type="checkbox"/> NO	<input type="checkbox"/> N/A				<input type="checkbox"/> Yes	<input type="checkbox"/> NO	<input type="checkbox"/> N/A				
Jailbroken or Rooted:	<input type="checkbox"/> Yes	<input type="checkbox"/> NO	<input type="checkbox"/> N/A										
Unlocked or Flashed:	<input type="checkbox"/> Yes	<input type="checkbox"/> NO	<input type="checkbox"/> N/A										
Previously Repaired:	<input type="checkbox"/> Yes	<input type="checkbox"/> NO	<input type="checkbox"/> N/A										
Frame Damage:	<input type="checkbox"/> Yes	<input type="checkbox"/> NO	<input type="checkbox"/> N/A				<input type="checkbox"/> Yes	<input type="checkbox"/> NO	<input type="checkbox"/> N/A				
Digitizer Damage:	<input type="checkbox"/> Yes	<input type="checkbox"/> NO	<input type="checkbox"/> N/A				<input type="checkbox"/> Yes	<input type="checkbox"/> NO	<input type="checkbox"/> N/A				
LCD Damage:	<input type="checkbox"/> Yes	<input type="checkbox"/> NO	<input type="checkbox"/> N/A				<input type="checkbox"/> Yes	<input type="checkbox"/> NO	<input type="checkbox"/> N/A				
Device is unable to be turned on prior to repair for Device Inspection													
	<input type="checkbox"/> Yes <input type="checkbox"/> NO			<input type="checkbox"/> Yes <input type="checkbox"/> NO									
	Yes (Working) No (Not Working)			Yes (Working) No (Not Working)									
Volume Button:	<input type="checkbox"/> Yes	<input type="checkbox"/> NO	<input type="checkbox"/> N/A				<input type="checkbox"/> Yes	<input type="checkbox"/> NO	<input type="checkbox"/> N/A				
Mute Switch:	<input type="checkbox"/> Yes	<input type="checkbox"/> NO	<input type="checkbox"/> N/A				<input type="checkbox"/> Yes	<input type="checkbox"/> NO	<input type="checkbox"/> N/A				
Vibration :	<input type="checkbox"/> Yes	<input type="checkbox"/> NO	<input type="checkbox"/> N/A				<input type="checkbox"/> Yes	<input type="checkbox"/> NO	<input type="checkbox"/> N/A				
Power Button:	<input type="checkbox"/> Yes	<input type="checkbox"/> NO	<input type="checkbox"/> N/A				<input type="checkbox"/> Yes	<input type="checkbox"/> NO	<input type="checkbox"/> N/A				
Home Button:	<input type="checkbox"/> Yes	<input type="checkbox"/> NO	<input type="checkbox"/> N/A				<input type="checkbox"/> Yes	<input type="checkbox"/> NO	<input type="checkbox"/> N/A				
WiFi:	<input type="checkbox"/> Yes	<input type="checkbox"/> NO	<input type="checkbox"/> N/A				<input type="checkbox"/> Yes	<input type="checkbox"/> NO	<input type="checkbox"/> N/A				
Cell Service/Call:	<input type="checkbox"/> Yes	<input type="checkbox"/> NO	<input type="checkbox"/> N/A				<input type="checkbox"/> Yes	<input type="checkbox"/> NO	<input type="checkbox"/> N/A				
Proximity Sensor:	<input type="checkbox"/> Yes	<input type="checkbox"/> NO	<input type="checkbox"/> N/A				<input type="checkbox"/> Yes	<input type="checkbox"/> NO	<input type="checkbox"/> N/A				
Ear Speaker:	<input type="checkbox"/> Yes	<input type="checkbox"/> NO	<input type="checkbox"/> N/A				<input type="checkbox"/> Yes	<input type="checkbox"/> NO	<input type="checkbox"/> N/A				
Phone Microphone:	<input type="checkbox"/> Yes	<input type="checkbox"/> NO	<input type="checkbox"/> N/A				<input type="checkbox"/> Yes	<input type="checkbox"/> NO	<input type="checkbox"/> N/A				
External Speaker:	<input type="checkbox"/> Yes	<input type="checkbox"/> NO	<input type="checkbox"/> N/A				<input type="checkbox"/> Yes	<input type="checkbox"/> NO	<input type="checkbox"/> N/A				
External Microphone:	<input type="checkbox"/> Yes	<input type="checkbox"/> NO	<input type="checkbox"/> N/A				<input type="checkbox"/> Yes	<input type="checkbox"/> NO	<input type="checkbox"/> N/A				
Headphone Jack:	<input type="checkbox"/> Yes	<input type="checkbox"/> NO	<input type="checkbox"/> N/A				<input type="checkbox"/> Yes	<input type="checkbox"/> NO	<input type="checkbox"/> N/A				
Rear Facing Camera & Flash:	<input type="checkbox"/> Yes	<input type="checkbox"/> NO	<input type="checkbox"/> N/A				<input type="checkbox"/> Yes	<input type="checkbox"/> NO	<input type="checkbox"/> N/A				
Front Facing Camera:	<input type="checkbox"/> Yes	<input type="checkbox"/> NO	<input type="checkbox"/> N/A				<input type="checkbox"/> Yes	<input type="checkbox"/> NO	<input type="checkbox"/> N/A				
Charge Port:	<input type="checkbox"/> Yes	<input type="checkbox"/> NO	<input type="checkbox"/> N/A				<input type="checkbox"/> Yes	<input type="checkbox"/> NO	<input type="checkbox"/> N/A				
Fingerprint Scanner:	<input type="checkbox"/> Yes	<input type="checkbox"/> NO	<input type="checkbox"/> N/A				<input type="checkbox"/> Yes	<input type="checkbox"/> NO	<input type="checkbox"/> N/A				



STEP 6

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**

Riana Soto
678.513.4020 x400
rsoto@cellairis.com

