# CELLAIRIS IPhone 7 Plus Digitizer/LCD REPAIR GUIDE

Version 1 2016 Edition



# IPhone 7 Plus Digitizer/LCD REPAIR GUIDE LCD AND DIGITIZER REPLACEMENT

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# FOR EVERY REPAIR

# MAKE SURE TO COMPLETE, INITIAL,

# AND HAVE CUSTOMER SIGN THE CELLAIRIS

## **REPAIR LIABILITY WAIVER FORM**

### **PRE-REPAIR DEVICE CHECK-IN**

	Pre-Re	pair Device Insp	ection	Post-Repair Device Inspection		
Liquid Damage:	Yes	NO	□ N/A	Yes	NO	□ N/A
Jailbroken or Rooted:	Yes		□ N/A			
Unlocked or Flashed:	Yes	NO	□ N/A			
Previously Repaired:	Yes	NO	□ N/A			
Frame Damage:	Yes	NO	□ N/A	🗌 Yes		□ N/A
Digitizer Damage:	Yes	NO	□ N/A	🗌 Yes		□ N/A
LCD Damage:	Yes	NO	□ N/A	🗌 Yes		□ N/A
Device is unable to be tur Device In						
	Yes (Working)	No (Not Working	g)	Yes (Working)	No (Not Working	z)
Volume Button:	Yes		□ N/A	Yes		□ N/A
Mute Switch:	Yes	NO NO	□ N/A	Yes		□ N/A
Vibration :	Yes		□ N/A	Yes		□ N/A
Power Button:	Yes		□ N/A	Yes		□ N/A
Home Button:	Yes		□ N/A	🗌 Yes	NO NO	□ N/A
WiFi:	Yes		□ N/A	🗌 Yes	ON 🗌	N/A
Cell Service/Call:	Yes		□ N/A	🗌 Yes		□ N/A
Proximity Sensor:	Yes		□ N/A	🗌 Yes		□ N/A
Ear Speaker:	Yes		□ N/A	🗌 Yes		N/A
Phone Microphone:	Yes		□ N/A	🗌 Yes		□ N/A
External Speaker:	Yes		□ N/A	🗌 Yes	NO	□ N/A
External Microphone:	Yes		□ N/A	🗌 Yes		□ N/A
Headphone Jack:	Yes		□ N/A	🗌 Yes	NO NO	□ N/A
Rear Facing Camera & Flash:	Ves		□ N/A	🗌 Yes	NO NO	□ N/A
Front Facing Camera:	Ves		□ N/A	🗌 Yes	NO NO	□ N/A
Charge Port:	Yes		□ N/A	🗌 Yes	NO NO	□ N/A
Fingerprint Scanner:	Yes		□ N/A	🗌 Yes		□ N/A



### **TOOLS NEEDED**



- Philips screwdriver
- Spudger
- Tweezers
- lsesamo
- Magnetic Mat
- Heat Gun
- IPhone 7 Plus Digitizer/LCD
- Tri-point #000 screwdriver

## **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 Samsung Galaxy S4. Below is a list of several internal components of the Samsung Galaxy S4 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.

# **LET'S START!**



Tools: Spudger, Fingers, isesamo, pentalobe screwdriver

#### STEP 1 Disassemble the device

- Remove the two (2) pentalobe screws located at the bottom of the phone near chargeport, using the pentalobe screwdriver.
- Next use the isesamo tool and slide it in between the frame of phone and screen. Start at bottom left side of phone push the isesamo straight down between the two then flex down to pry screen up.
  After the screen is up on that side flex the isesamo from left to right in upward motion around frame of screen to pry phone screen up. However, Be careful the screen unlike any other iPhone opens left to right not from top to bottom.

Tips: Take your time opening the screen. Start from bottom left side there is a specific indention. Might want to heat around the frame to loosen the adhesive but be careful. The 7 plus is essentially the same as iPhone 7 just bigger in screen size for the digitizer/Lcd repair.







### **Disassemble the device**

- Once the phone is open we will begin by removing metal bracket covering the battery and Digitizer/LCD cables. Remove four (4) screws holding down plate with the tri-wing screwdriver. Remove plate.
- Disconnect battery with spudger then also using spudger disconnect Digitizer/LCD cables.
- Move your way up to the proximity sensor and notice a metal bracket holding that cable down unscrew three (3) screws with Tri-point screwdriver and remove metal bracket. At this point screen should be completely disconnected from the motherboard. We will now be working with old assembly removing components that need







# Disassemble the devices crewdriver

- Starting with the ear speaker removal of five (5) Philips screws holding down the metal bracket covering ear speaker.
- Once the metal plate is removed the ear speaker remove ear speaker. Simply use the flat end of spudger to slide underneath proximity sensor cable to remove. You can use heat if necessary to help loosen adhesive.
- Use the tri-wing #000 screw driver to remove four (4) screws holding down metal bracket cover home button.





Tools: Spudger, Hands, tri-







#### STEP 4 **Disassemble the device**

Tools: Spudger, Fingers, heat gun, tweezers, triwing screwdriver

- Once heat plate Is removed from home button disconnect home button flex connector using spudger. Then use heat gun the same way as removing proximity sensor and then remove the home button.
- Next step is to remove metal heat plate covering the LCD, use the tri-wing screwdriver and remove all 6 screws. Once the screws are removed peel back thin black strip of adhesive (as shown in picture below) then remove but use spudger to help peel off the adhesive holding the cables to heat plate on the back side of LCD heat plate.









Tools: spudger, Fingers, tweezers

## **Reassembly of the**

- Cefore reassembling make sure to separate the cables held down on the back of the Lcd heat plate.
- Take new iPhone 7 digitizer/LCD and place heat plate on it. Screw in the 6 screws using tri-wing screwdrive
- Put the proximity sensor back into place at the top of the new assembly then place ear speaker on top of proximity sensor and screw down the 2 Philips screws to ear speaker. Place metal bracket on top of those components and screw in 3 Philips screws that hold metal bracket down.











Tools: Philips screwdriver, tri-wing screwdriver, Fingers

# **Reassembly of the**

- by going through the front then laying in place after its set correctly connect flex cable.
- Put metal bracket over the home button flex cable and screw four (4) screws with the tri-wing screwdriver.
- Now that those components are now transferred over to new Digitizer/LCD you can connect cables back to motherboard starting with proximity sensor at the top.







Tools: Heat gun, painters knife, spudger, Hands

#### STEP 3 Reassembly of the

- Connect the Eightizer/LCD to motherboard then connect battery.
- Place metal plate over battery and cable then screw down the four (4) screws with tri-wing screwdriver.
- Begin to lay screen down by sliding screen in between the frame of the phone and hooks at the top of new Digitizer frame. Once down and in at the top slide you hands down the side of the device as you push down on screen to lock in place.
- Once the phone is laying flush put the two (2) pentalobe screws back into the bottom of the phone.
- Power on phone and do Post test!





### Troubleshooting

- If you notice the front facing camera is frozen do a hard reset by holding down power button and home button at the same time until apple logo reappears.
- If the device still says searching after being powered on turn airplane mode on then turn it back off should bring the service back if not then could have been a antenna error during repair.
- Lines in the lcd either mean a defective part or the cables weren't properly installed power off device then disconnect cables and reposition make sure they are snapped down completely.

First Name:							
Last Name:							
Phone Number (hgt.me # of				Phone Number to Devi	ce		
the Device being Services):				being serviced:			
Email Address:							
Service Requested:				Price Quoted:			
Customer Address		Address		City	State	50	
	Phone Manufaturer:	Apple	Samsung [		Others		
Device Information:	Model:	Stor	age Size:	Color:	Carrier:		
	IMEI/Serial Number:			Passcode:			
Remember to attach receipt to completed paperwork.	Today's Date: Arrival Time		Arrival Time:	Due/Pick-up Date: Due/Pick-up Time			
	Pre-Repair Device Inspection			Post-Repair Device Inspection			
Liquid Damage:	Ves	NO	N/A	Yes		🗌 N/A	
Jailbroken or Rooted:	Yes	NO NO	□ N/A				
Unlocked or Flashed:	Yes	NO NO	□ N/A				
Previously Repaired:	Yes	NO NO	□ N/A				
Frame Damage:	Yes	NO NO	□ N/A	Yes		□ N/A	
Digitizer Damage:	Yes	NO NO	□ N/A	Yes		□ N/A	
LCD Damage:	Yes	NO	N/A	Yes		□ N/A	
Device is unable to be tur Device Ir	med on prior to repair for	Yes	NO NO				
Center	Yes (Working)	lo (Not Workin	e)	Yes (Working)	No (Not Wor	king)	
Volume Button:	Yes	NO NO	□ N/A	Yes		🗌 N/A	
Mute Switch:	Ves 1	NO NO	N/A	Yes	NO NO	🗌 N/A	
Vibration :	Yes	NO NO	N/A	Yes	NO NO	🗌 N/A	
Power Button:	Yes	NO NO	□ N/A	Yes	NO NO	🗌 N/A	
Home Button:	Yes	NO NO	□ N/A	Yes		🗌 N/A	
WiFi:	Yes	NO NO	□ N/A	Yes		□ N/A	
Cell Service/Call:	Yes	NO NO	□ N/A	Yes		□ N/A	
Proximity Sensor:	Yes	NO NO	□ N/A	Yes		□ N/A	
Ear Speaker:	Yes	NO NO	□ N/A	Yes		□ N/A	
Phone Microphone:	Yes	NO NO	□ N/A	Yes		□ N/A	
External Speaker:	Ves	NO NO	□ N/A	Yes	NO NO	N/A	
External Microphone:	Yes	NO NO	□ N/A	Yes		N/A	
Headphone Jack:	Yes	NO NO	N/A	Yes		N/A	
Rear Facing Camera & Flash:	Ves		□ N/A	Yes		N/A	
Front Facing Camera:	Yes		□ N/A	Yes		□ N/A	
Charge Port:	∏ Yes		□ N/A	Yes			
Fingerprint Scanner:	Yes		□ N/A	Yes			

## CONTACT

#### BECOME A MASTER FRANCHISE

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SUNG

