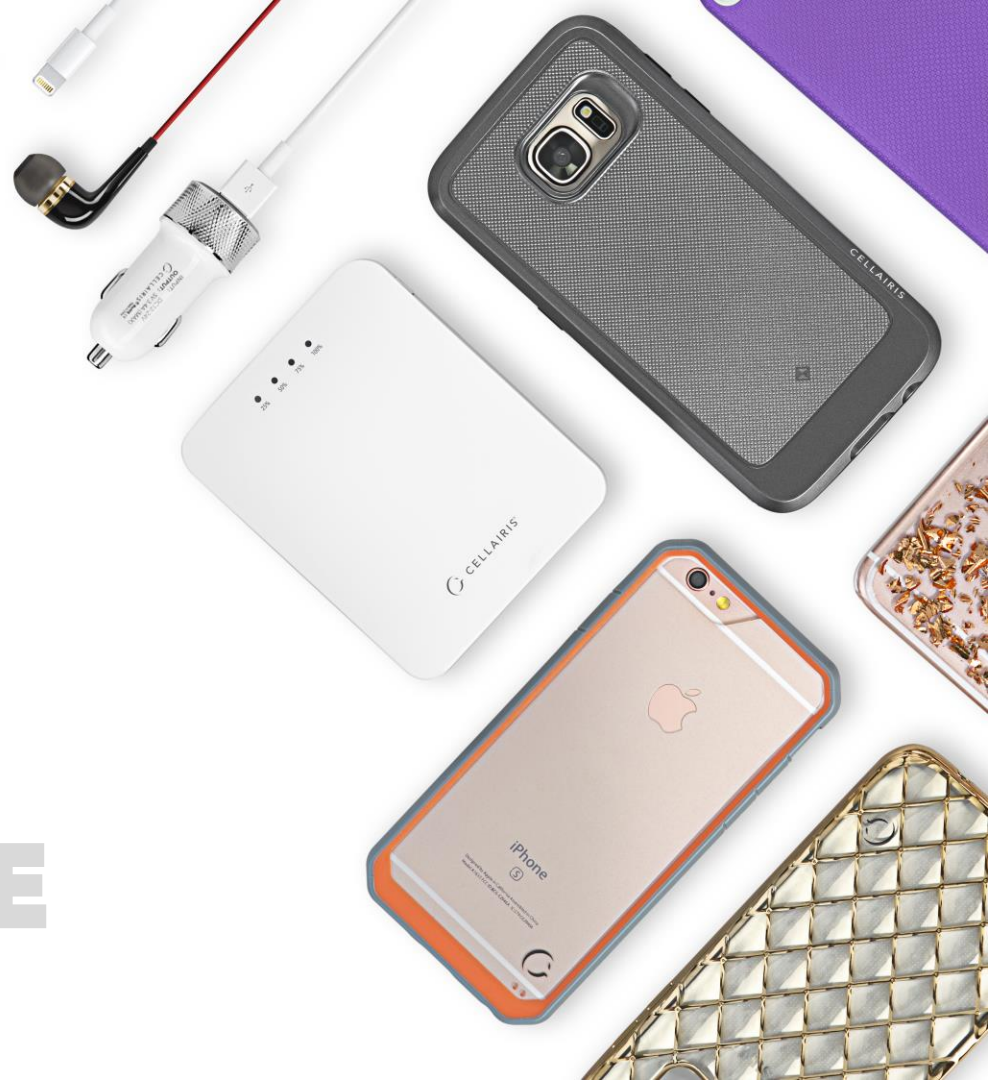




# Galaxy S6 Glass/Lcd REPAIR GUIDE

Version 1  
2016 Edition





# Samsung Galaxy 5s chargeport REPAIR GUIDE

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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-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		
	<b>Yes (Working)</b>	<b>No (Not Working)</b>		<b>Yes (Working)</b>	<b>No (Not Working)</b>	
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
- iPhone 5/5s replacement Chargeport



# 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.





**LET'S START!**



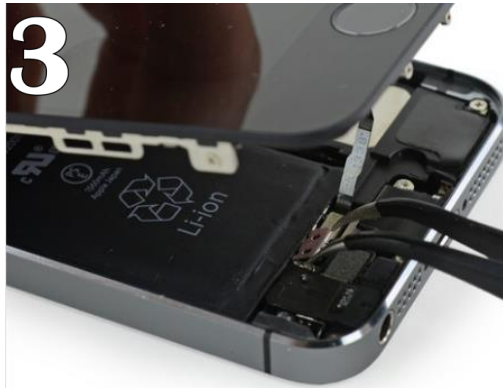
Tools: Pentalobe screwdriver

## STEP 1

# Disassemble the device

- Power off device.
- Remove the bottom two (2) pentalobe screws using the pentalobe screwdriver.
- Take the isesamo tool and slide it in between frame of phone and bezel to open device. Keep in mind the iPhone 5s has a home button flex cable attached to the screen so this needs to be disconnected before completely opening the screen.

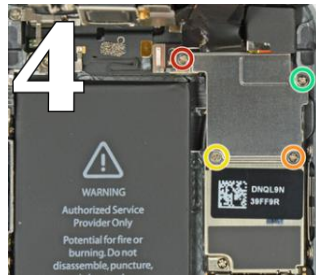
1



Tools: spudger, Philips screwdriver

## STEP 2

# Disassemble the device



- Once the home button flex cable is disconnected screen will be lifted open.
- Disconnect the battery by removing metal bracket covering battery cable and disconnect.
- Next, disconnect the Digitizer/LCD and proximity sensor cables to remove screen by taking off the EMI shield held down by four (4) Philips screws. Use spudger to disconnect cables. We will be working only with the back housing.



Tools: spudger

## STEP 3

# Disassemble the device

- Now that the screen is removed we will go back down to the chargeport flex cable and disconnect using the flat end of the spudger. Bend cable back out of the way.
- Disconnect the antenna below battery connector on board. Use spudger or plastic tweezers. BE GENTLE!

Tips:

The chargeport, audio jack and microphone are all one part that will be taken out. Two things attached to original part will be transferred to new part.



Tools: Spudger, fingers

Tips: make sure to keep screws organized on magnetic mat.

## STEP 4

# Disassemble the device

- Remove standoff screw next to antenna.
- Next we will remove the two Philips screws at the bottom of the loud speaker.
- At this point the loud speaker will be able to come out. Use flat in of spudger or your finger to lift it up slightly then pull the loud speaker to the right then slide out

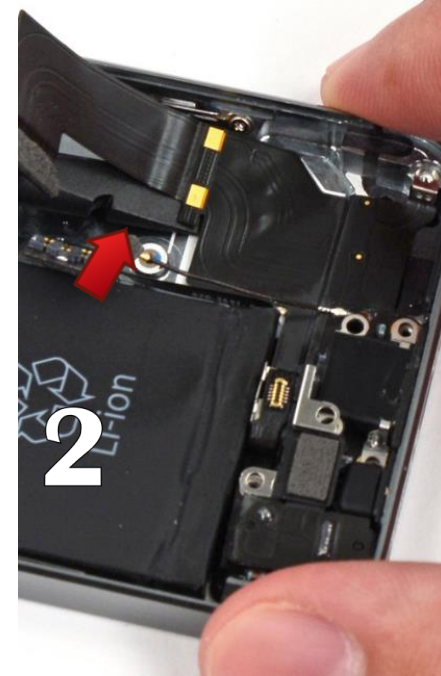
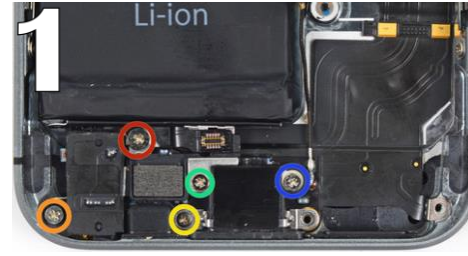


Tools: spudger

## STEP 5

# Disassemble the device

- Remove the five (5) Philips screws and make sure to keep them organized so you will be able to put them back in the right places.
- Next, use the spudger to get underneath the chargeport flex cable to lift up and out. It is held down by adhesive but, once it's lifted use your fingers to pull it out.



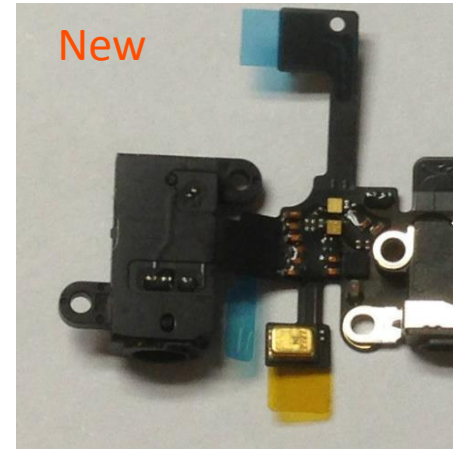
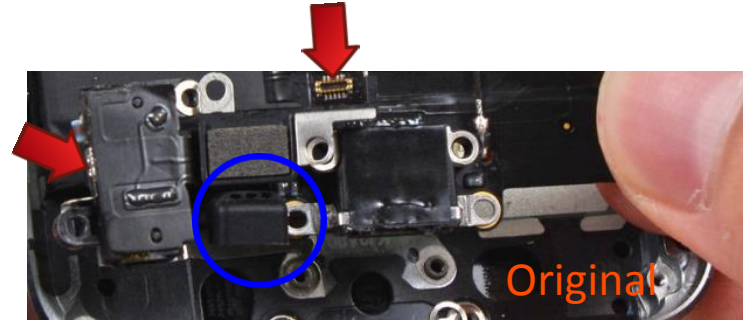


Tools: spudger, tweezers

## STEP 6

# Disassemble the device

- Now that the original part is removed underneath you will notice a metal bracket and metal washer they sometimes will come lose make sure to keep those in the device in the correct position.
- The black rubber gasket covering the gold prong needs to be transferred and metal bracket lining the audio jack needs to be transferred if it isn't already on replacement part. As well as the bracket holding the cable that will be connected to the home button flex connector( all pointed out in original picture).



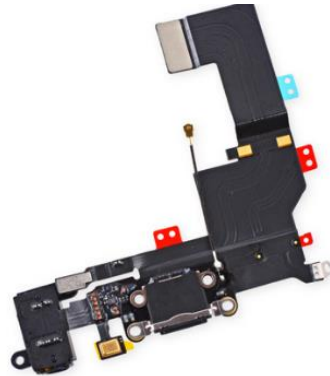
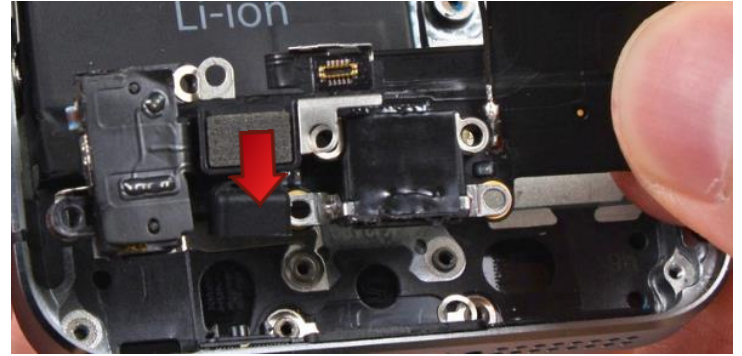
## STEP 1

# Reassemble the device

Tools: Philips screwdriver,  
spudger

Tip: peel blue or red covering  
off adhesive so the new part  
will stay in place.

- Those pieces are now transferred over so put the new replacement part back into the device.
- Start with the rubber black gasket slide that into position and audio jack until you feel it snap into position.
- Next, make sure the chargeport is slid all the way in until you feel it snap into position.

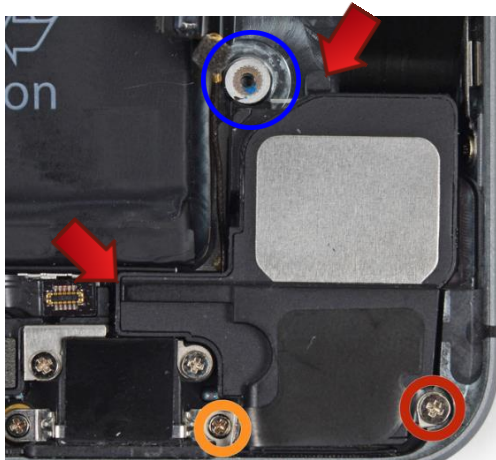
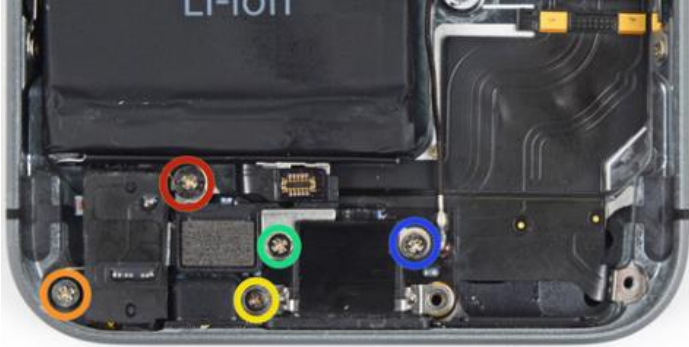




Tools: Philips screwdriver, spudger, Fingers

Tips: take your time so everything is fitting accordingly.

## STEP 2



- After positioned properly screw in the five (5) Philip screws.
- Slide the loud speaker into the place by taking the long end and slide it underneath the home button flex connector and simultaneously get the top of the loud speaker prong under the motherboard.
- Then screw the bottom two (2) Philip screws into the bottom of speaker.
- Then screw the standoff screw into place (highlighted by blue circle).



Tools: Philips screwdriver, spudger, Fingers

Tips: take your time so everything is fitting accordingly.

## STEP 3

- Next, reconnect the antenna.
- Reconnect the chargeport flex cable.
- Next reconnect the Digitizer/LCD and proximity cable to assemble screen back. Screw the EMI shield back into place.

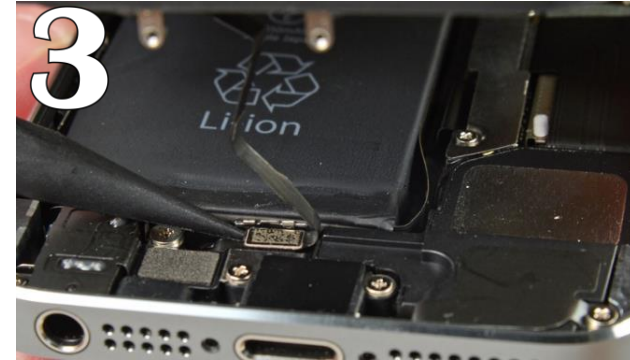


Tools: Philips screwdriver, spudger, Fingers

Tips: take your time so everything is fitting accordingly.

## STEP 4

- Connect battery and put metal bracket back over battery and screw in the two (2) Philips screws.
- Reconnect home button flex cable and place metal bracket over connector, before closing the screen.



# STEP 5

## Reassemble the device

- Final step is to screw the two (2) pentalobe screws into the bottom of the phone with the pentalobe screwdriver. At this point power on device and run a post test to check functionality and make any notes on customer check-in device sheet.
- Do Post test actions.



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

First Name:													
Last Name:													
Phone Number (include # 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													
	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

- If you notice the charger won't snap all the way into the connector most likely the charging port isn't all the way in. This will result in you opening the phone back up and adjusting the port push all the way in.
- If it does not charge at all make sure the flex cable is connected to motherboard properly.
- Now, if the replacement part doesn't work at all possibly be defective try a new part.





CONTACT

**REPAIR  
TRAINING**

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