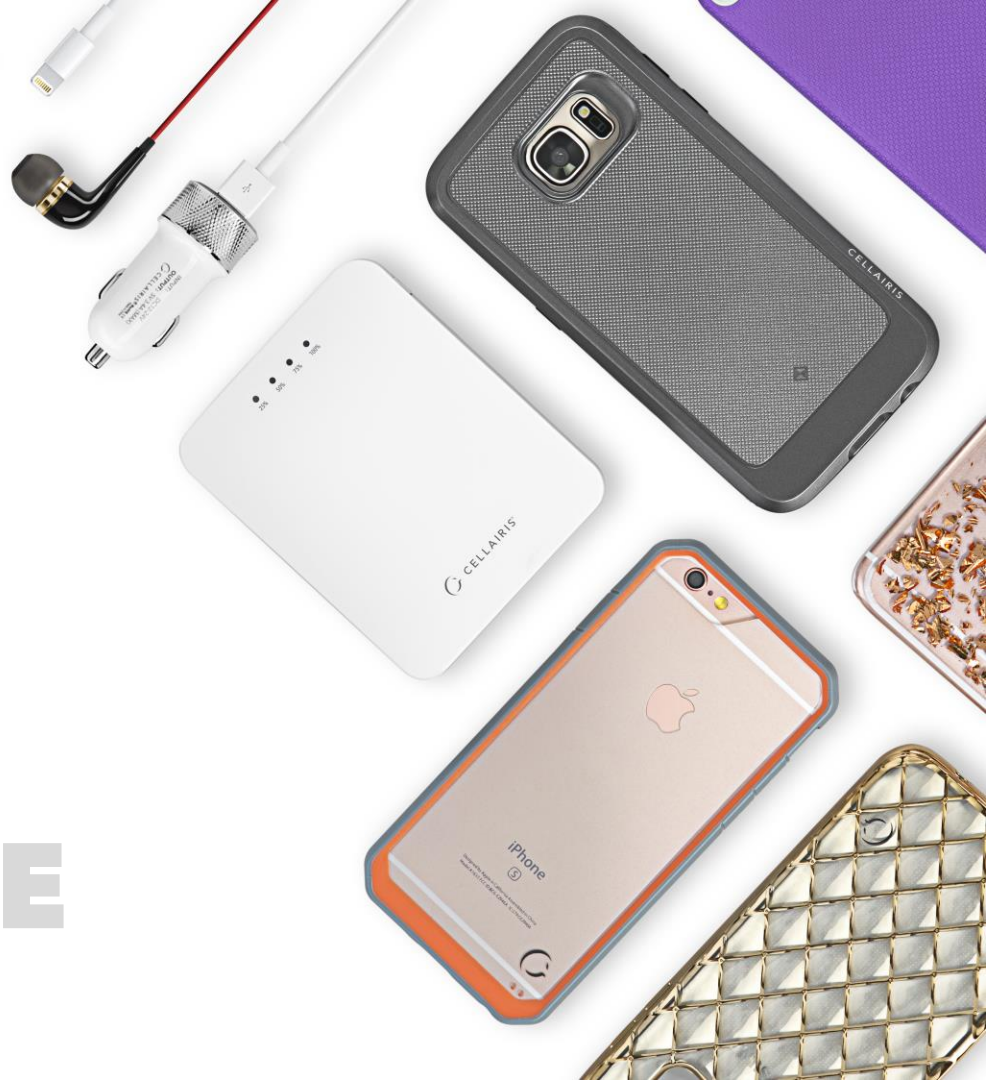




iPhone 6 Chargeport REPAIR GUIDE

Version 1
2016 Edition





IPHONE 6 CHARGEPORT 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-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
- iPhone 6 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!



STEP 1

Disassemble the device

- Remove the bottom two (2) pentalobe screws using the pentalobe screwdriver. Rotate counterclockwise.



STEP 2

- Take the isesamo tool and slide the tip with round edge in between the digitizer and frame of the iPhone. Start on the bottom left side of the iPhone because there is an indentation in that area to get underneath the screen. Take your time as you slide the isesamo tool around the frame of the phone. Flex the isesamo in a left to right upward motion to pry phone open as you go around frame. Phone will open from bottom to top.



STEP 3

Disassemble the device

Tools: Philips screwdriver,
spudger

Tips:

Keep organization of the screws especially on the EMI shield some are different sizes and need to be put back in the correct space.

- Once the screen is pried open next step is to disconnect the battery connector but first you must remove metal bracket covering the battery. Use the Philips screwdriver and remove the two (2) screws holding it down then disconnect. After that we will unscrew all five (5) Philips screws on the EMI shield.



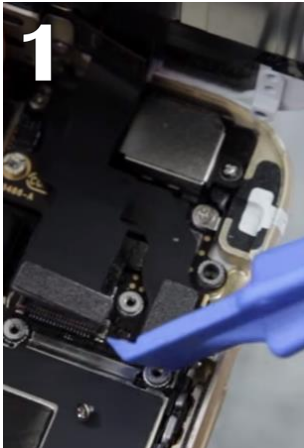
Tools: Spudger, fingers

STEP 4

Disassemble the device

- After the EMI Shield is removed you will see the Digitizer/LCD, proximity sensor, and home button cable disconnect those four (4) using the spudger. The old assembly will now be separated from back housing. We will only be working with old assembly now.

Tips: As you lift up these cables using the spudger be cautious not to be rough gently pry up with either side of spudger. Last thing you want to do is break a pin connector on logic board. Those pins are soldered on so not an easy fix!



STEP 5

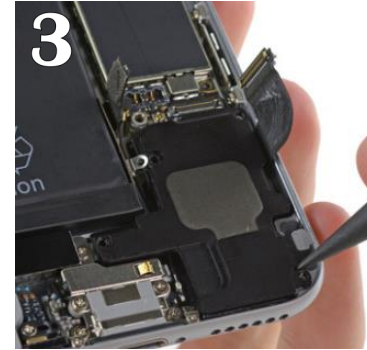
Disassemble the device

- After the screen is disconnected we can put it to the side because we will be working solely with the back housing portion of the phone.
- Disconnect chargeport cable from board.
- Disconnect the antenna cable up off motherboard be Gentle!



STEP 6

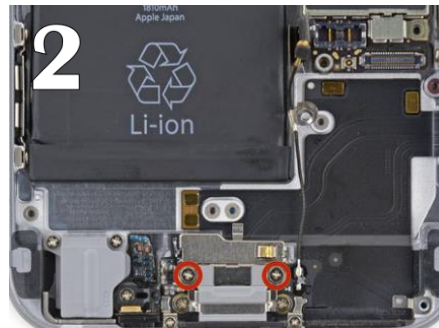
- Now we will remove the four (4) Philips screws holding down the loud speaker.
- Before you can completely pull loud speaker out you will have to pull the antenna clip off using your fingers or spudger.
- Next push up on the bottom part of the loud speaker to slide it out of the phone.



Tools: spudger, Philips

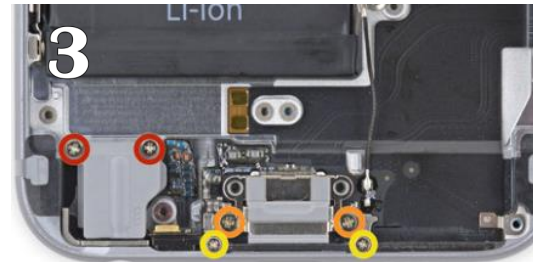
STEP 7

- Since the loud speaker is out we can remove the two (2) screws holding down the vibrator. Then remove vibrator.
- Remove the screws surrounding the chargeport.
- The top two (2) screws of the chargeport also hold down the retaining bracket so we want to pull that off and put to the side. We will put it back on after we put replacement part on.



Tools: Philips screwdriver,
spudger

STEP 8



- Next, remove the screw holding the microphone brace down. The black piece connected to the screw will be put back on after the new component is put in. Make sure to remember the position it is in before taking it out.
- After that is out the remaining (6) screws



STEP 9

Tools: Philips screwdriver,
spudger

- Now that all the screws and components covering the flex cable are gone we will pull this component which is all one piece out.
- You can use the flat side of spudger or your fingers to lift the cable up that is being held down by adhesive. I start at the top near flex connector.



Tip:
Do not screw plate too tight
and flip screen over after
being tightened and test home
button functionality to make
sure it is working good.

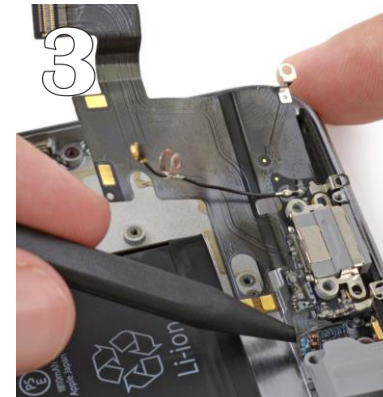
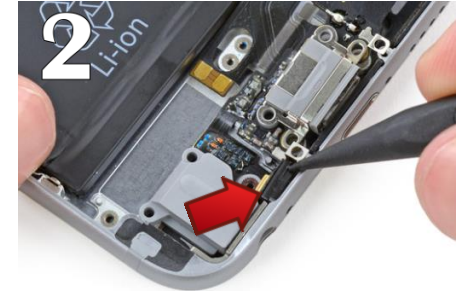


Tools: Philips screwdriver, spudger, Fingers

STEP 10

- The bottom portion where the actual chargeport is might need some finesse by wiggling from left to right slightly. This will help release it from the socket.
- The microphone is also still connected down there so use your spudger to help separate it from the frame.
- The rest should be as simple as pulling up and out maybe use a plastic pry tool or plastic card to help loosen adhesive.

Tips: Do Not screw the metal bracket to tight it can muffle the sound or the gold prongs won't line up properly.



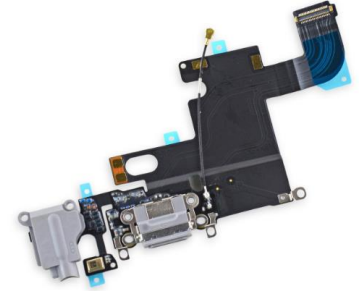
Tools: Philips screwdriver, spudger, Fingers

STEP 11

- The replacement part will come with adhesive that you will peel off before you replace it. (peel the blue tape off)
- To reassemble the replacement part start with the audio jack and slide into position until you feel it snap into place. Once that is positioned bend the microphone gold prong so adhesive side is sticking to the frame while simultaneously sliding the chargeport into position (refer to picture).



Tips: Do Not screw the metal bracket to tight it can muffle the sound or the gold prongs won't line up properly.



Tools: Philips screwdriver, spudger, Fingers

STEP 12

- Now that the chargeport and audio jack are positioned lay the rest of the cable down making sure all open holes are still open for screws to go in.
- Then place the loud speaker in first before screwing any of the screws in because some overlap holes for the screws.
- Put the vibrator back to position.
- Put the retaining bracket back over top of the chargeport.



Tips: Do Not screw the metal bracket to tight it can muffle the sound or the gold prongs won't line up properly.



Tools: Philips screwdriver, spudger, Fingers

STEP 13

- Now that every component is put back on the chargeport we can screw the remaining screws into there designated areas.
- Reconnect the antenna.
- Connect chargeport flex cable.
- Connect Digi/LCD.
- Connect battery then power on to test replacement part. Once plugged into charger should immediately work and notice charging symbol.
- Once you notice it's working go ahead and lay screen back down.



STEP 14

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 (212) 234-5678 or 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 15

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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