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L91 Disassembly Guide

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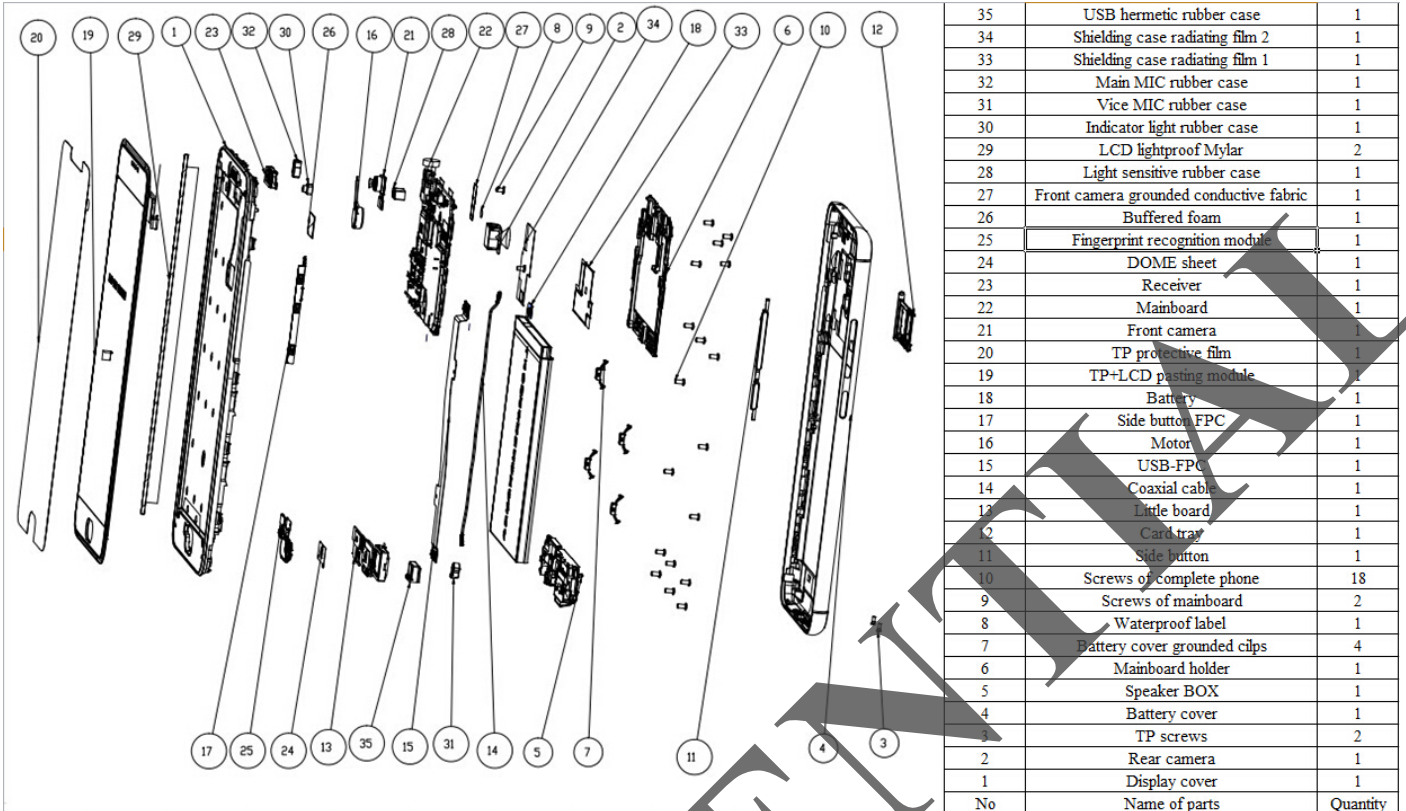
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Approved By: Chuansan Wang

Version	Date	Changed content	Remark
V1.0	2016.5.16	Maiden issue	

Disassembly Guide

I . Phone introduction



II . Disassembly Tools

1.Fixture for separating battery cover from display cover 2.0.8 Torx screwdriver 3.Antistics tweezers 4.Philips screwdriver 5.FPC lever 6.Ejection pin 7.Metallic tweezers(as picture below)



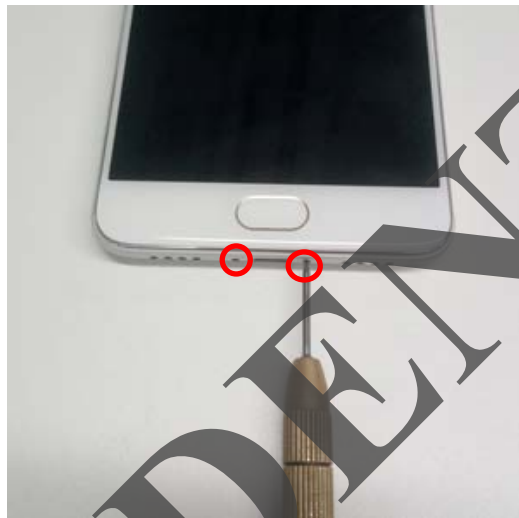
III. Disassembly steps

1.Make sure the phone is power off: Press HOME button to check if powered off. If not, press power button to shut it down. (**Caution: Can't disassemble the phone under the phone is power on**)

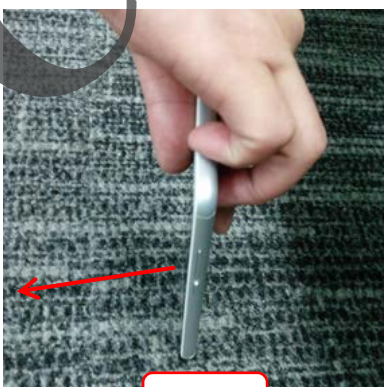
2. Remove card tray: Insert ejection pin into the hole to remove card tray. (As picture below)



3. Remove TP screws: Use 0.8mm Torx screwdriver to remove two TP screws at the bottom of phone. (As picture below)



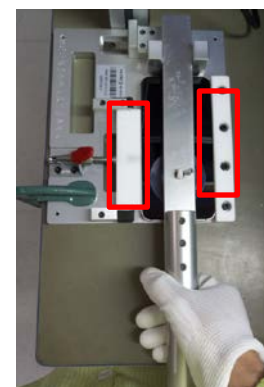
4. Remove battery cover: **1.** Get the phone which TP screws and card tray are removed from it. Uplift the handle of fixture and put the phone into fixture to lock (fingerprint module put at the behind side). Push the slider at the left side to right to clamp the battery cover tightly. Depress the handle to press the sucker flatly. Push the slider at the top left corner to right. Uplift the handle slowly to separate the display cover from the battery cover. **2.** For the phone which can't disassemble by the way as step 1, set one layer of soft foam on the table. Get the phone screen faced toward ourselves (with 80 degree) and knock the phone softly as the arrow direction (as picture 1). Knock the phone until there is the 1-2mm gap between battery cover and display cover (as picture 2), then use the way as step 1 to disassemble the phone. **Caution: 1. The phone which can't disassemble by step 1 refers to the phone which display cover can't be separated from battery cover causing the separating of sucker and display cover after uplifting handle. 2. Don't use too much force while knocking the phone. Or the rate of breaking battery cover will be greater. 3. Have to paste 0.3mm thickness adhesive tape at groove at two side of fixture before using the fixture. Or it is likely to cause the battery cover can't be disassembling or damage of TP and LCD.**



Picture 1

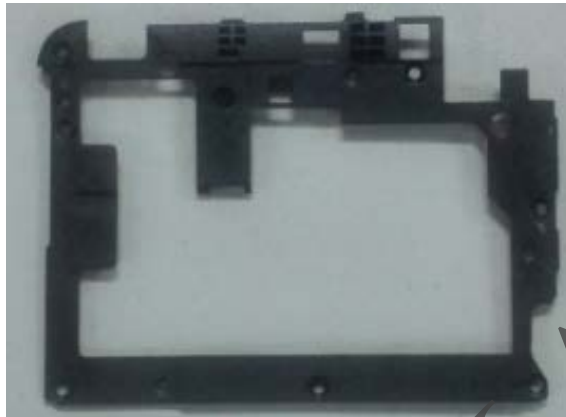
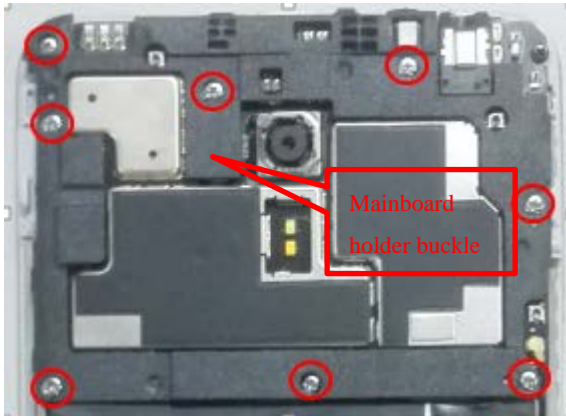


Picture 2

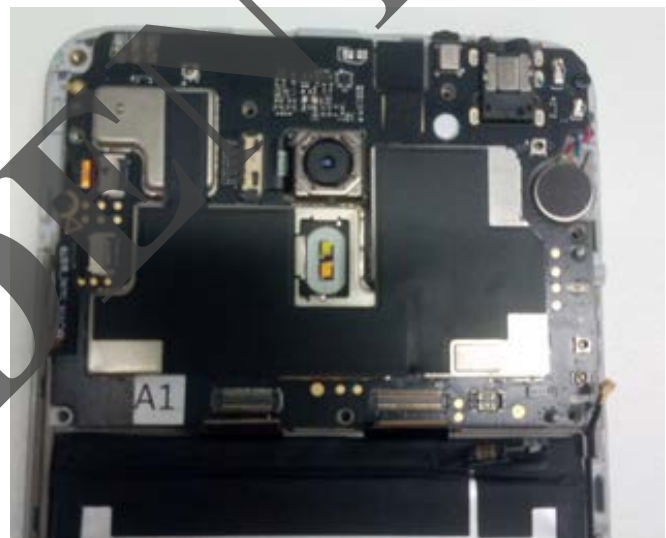
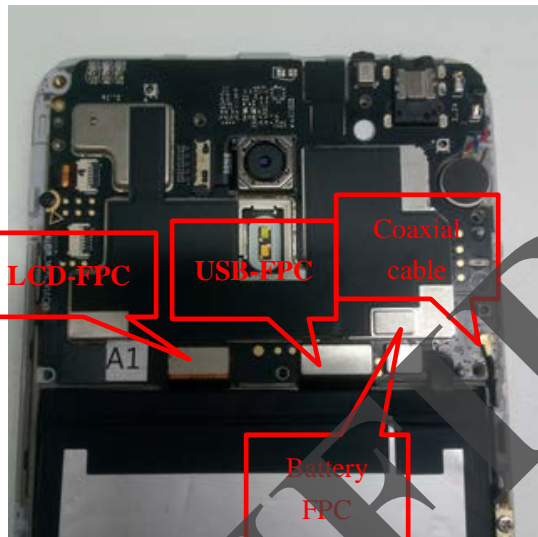


Paste 0.3mm thickness adhesive tape at groove which shown as picture.

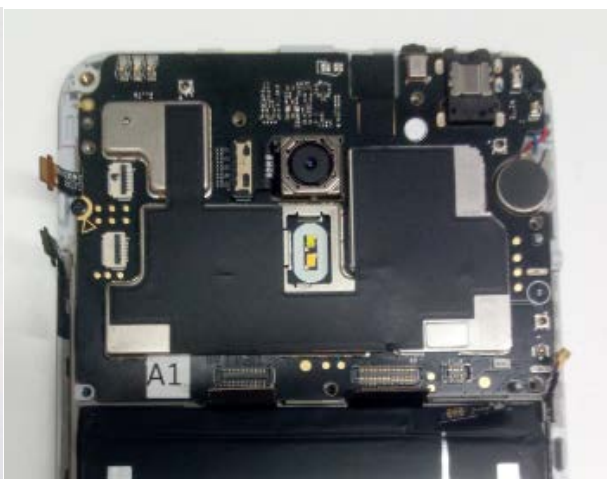
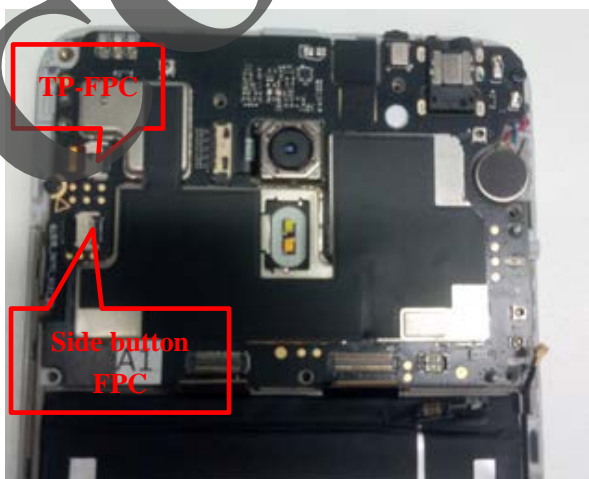
5. **Remove mainboard holder:** Use Philips screwdriver to remove eight screws on mainboard holder, then remove holder. (As picture is shown below. **Caution: Don't break the buckle labeled in the picture below while removing mainboard holder.**)



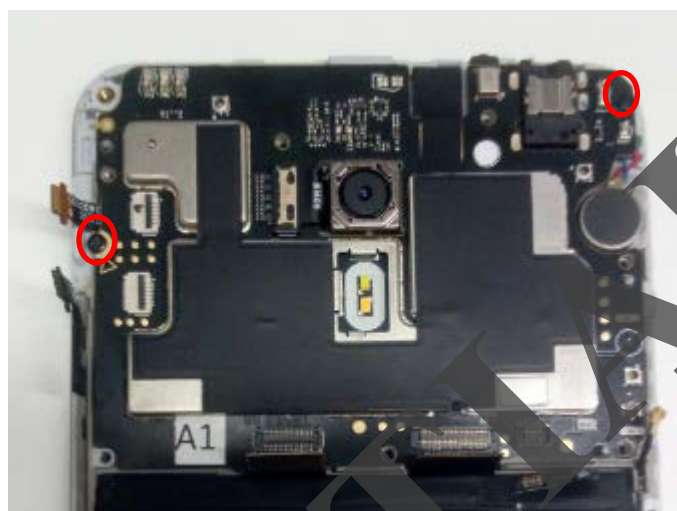
6. **Remove LCD connector, USB connector, FPC connector, battery connector and coaxial cable radio-frequency base:** Use lever to remove battery, USB-FPC and LCD connector. Use plastic tweezers to remove coaxial cable radio-frequency base. (**Caution: Remove battery connector firstly. Don't get lever touched the component on the mainboard in case of falling off.**) (As picture below)



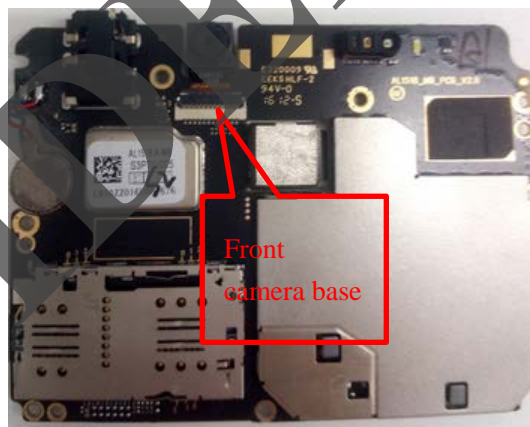
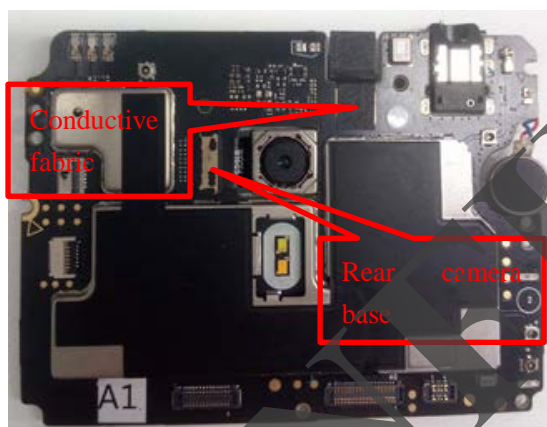
7. **Remove side button FPC, TP-FPC:** Use lever to lever up the TP connector cover plate and side button FPC connector plate. Use plastic tweezers to remove TP-FPC and side button FPC from the connecting base. Tear off the side button FPC pasted on the mainboard position and display cover position. (As picture below. **Caution: Don't use too much force to remove connecting base. Too much force is likely to cause the breakage of FPC.**)



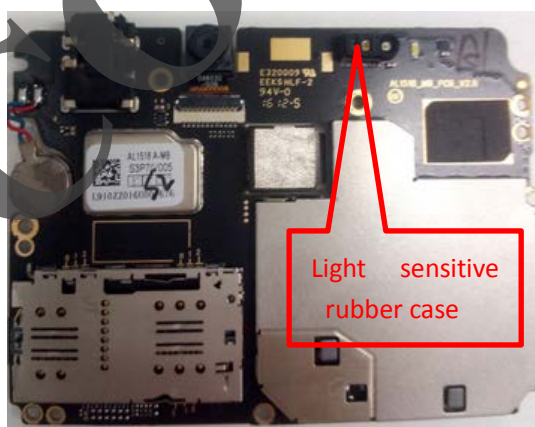
8. Remove mainboard: Use metallic tweezers to lever up the motor softly. Then use Philips screwdriver to remove 2 screws on mainboard and remove mainboard (as the picture shown below). **(Caution: Don't destroy the motor cable while using tweezers.)**



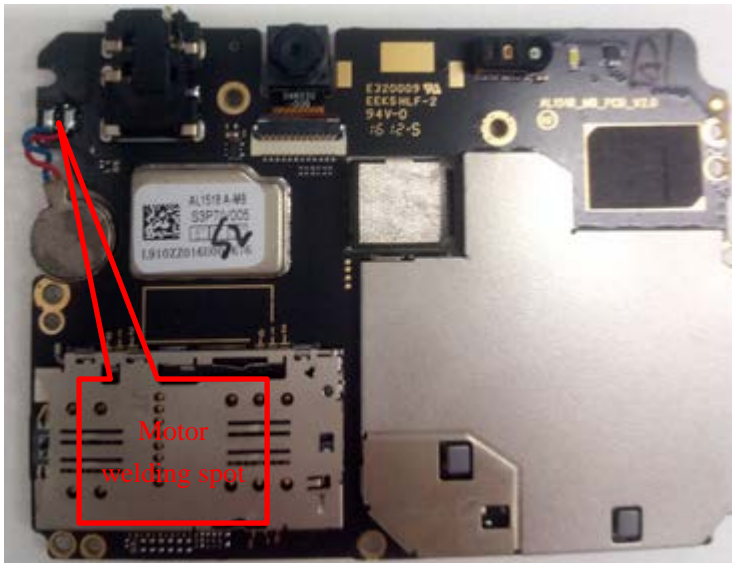
9. Remove front camera and rear camera: Use lever to lever up the rear camera connecting base and remove rear camera. Tear off the front camera conductive fabric. Use lever to lever up the front camera connecting base and remove front camera (as picture below). **(Caution: Don't get lever touched with component on the mainboard in case of falling off)**



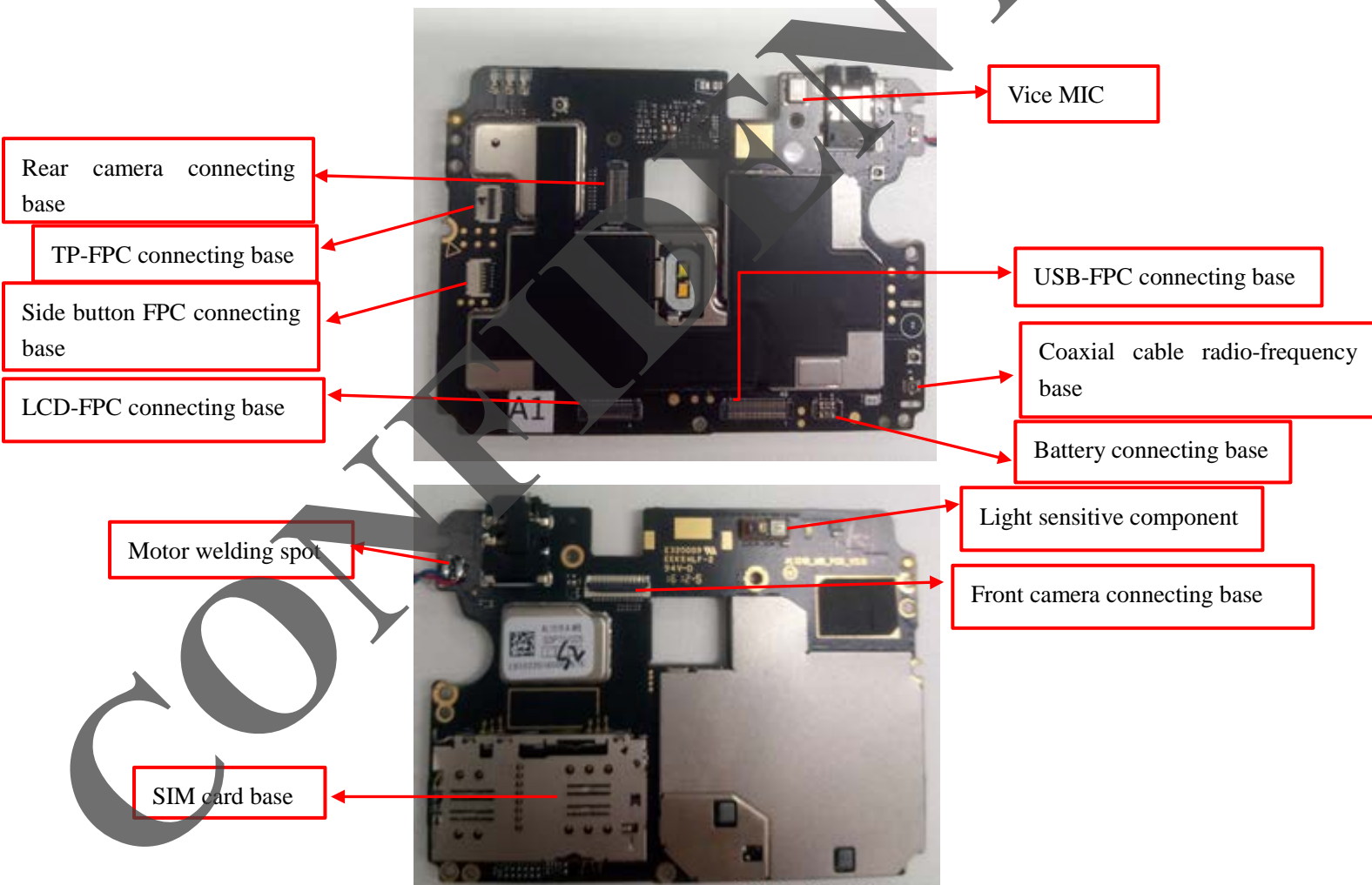
10. Remove light sensitive rubber case: Remove light sensitive rubber case from mainboard (as picture below).



11. Remove motor: Use soldering iron to remove motor (as picture below). (**Temperature of soldering iron: $350^{\circ}\pm 20^{\circ}$. Time of soldering iron touching with welding spot: Single spot for 1-2 seconds**)



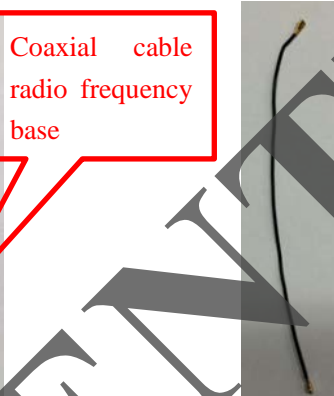
12. Mainboard introduction (as picture below)



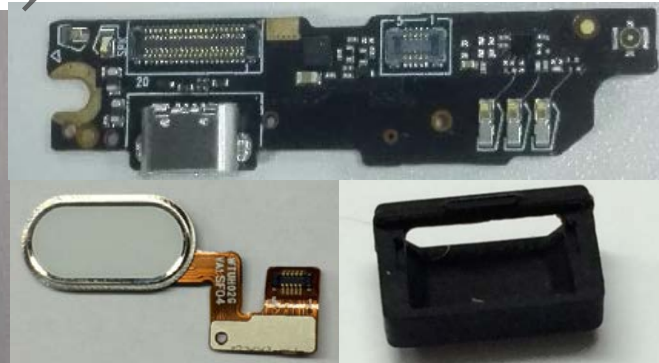
13. Remove speaker module: Use Philips screwdriver to remove 6 screws on speaker BOX and remove speaker BOX. Remove main rubber case. (As picture below)



14. Remove USB-FPC connector, fingerprint module FPC connector and coaxial cable. (Don't get lever touched with the component on the mainboard in case of falling off)



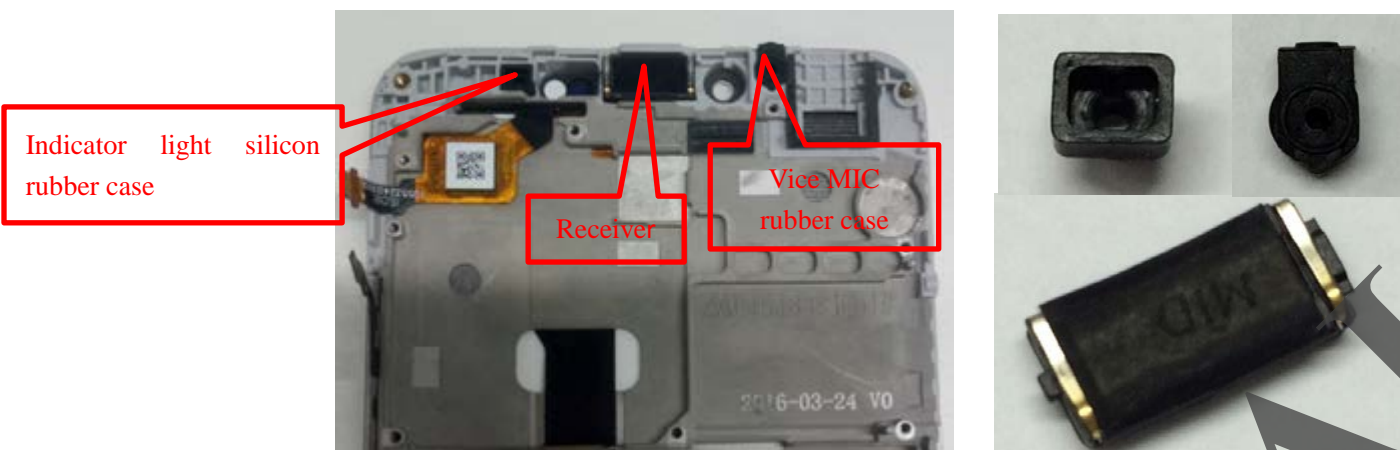
15. Remove little board, USB hermetic rubber case and fingerprint module: Use plastic tweezers to lever up the little board from left side. (As picture below)



16. Remove battery: Tear up battery drawstring and clench drawstring to pull it out slowly. Remove battery. (As picture below. Caution: Don't use too much force while pulling out battery. Too much force is likely to cause breakage of drawstring.)



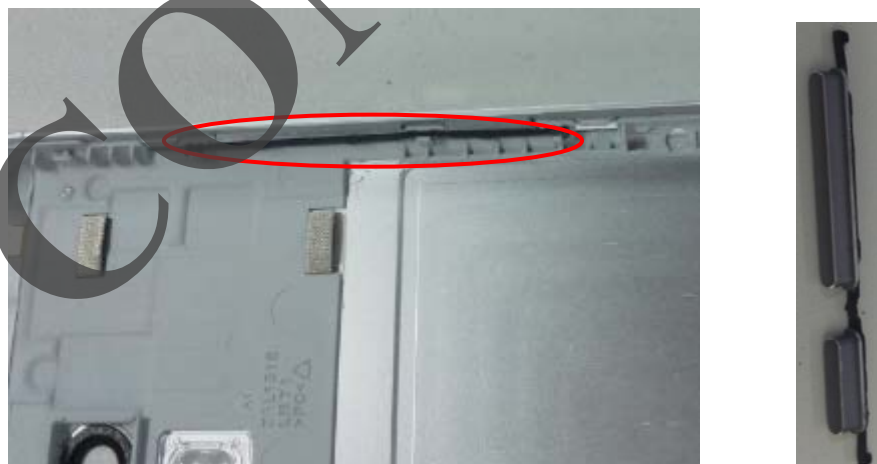
17. Remove indicator light silicon rubber case, receiver and vice MIC rubber case: Use tweezers to remove indicator light silicon rubber case, receiver and vice MIC rubber case (as picture below).



18. Remove USB-FPC: Tear off USB-FPC slowly. (**Don't snap the FPC**) (As picture below)



19. Remove side button from battery cover: Remove side button from battery cover. (As picture below)

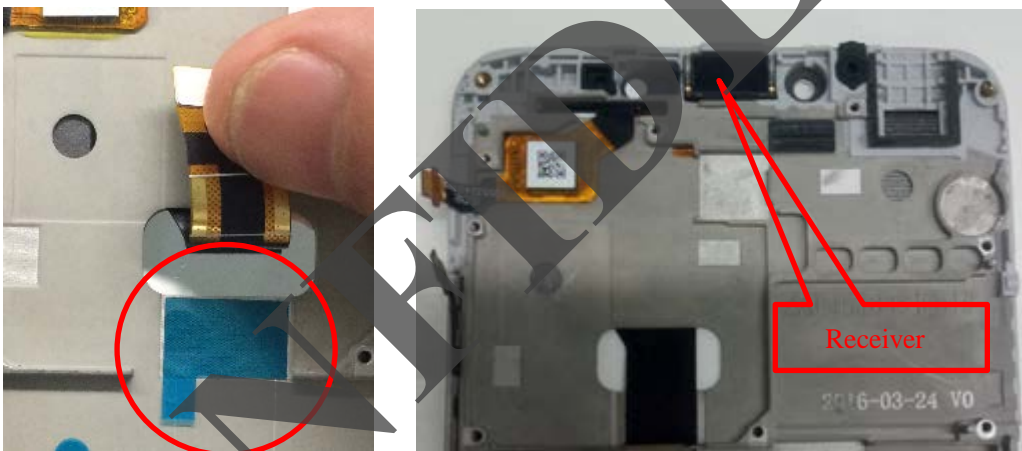


20. Disassembly finishes. (Below are all the cellphone parts)

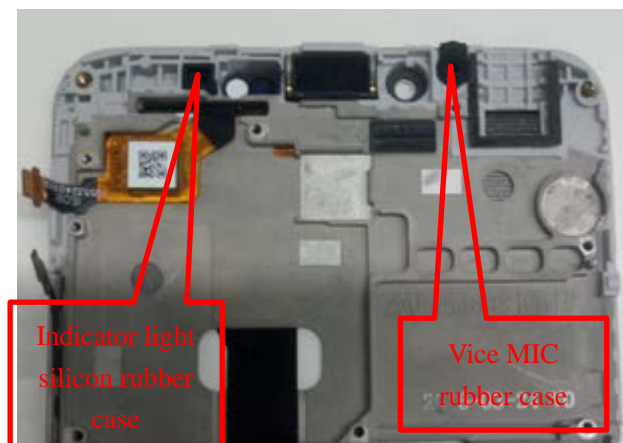


IV. Assembly guide

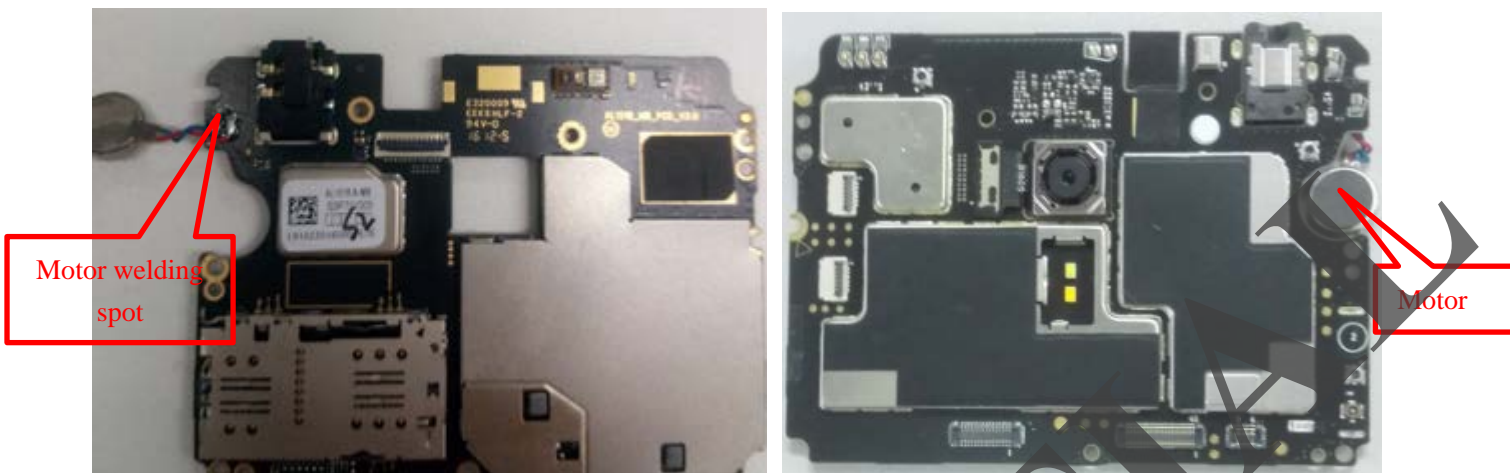
1. Check appearance of display cover module and assemble receiver: Check appearance of display cover module whether there is appearance fault. Tear off LCD-FPC back gum release paper and paste LCD-FPC at the specified position. Tear off the receiver back gum release paper and assemble receiver in corresponding position of display cover as the clips facing downward. (As picture below, **caution: Must paste LCD-FPC into the silk screen frame. Or it can't be clasped on the mainboard LCD connecting base. The clips face downward.**)



2. Assemble indicator light rubber case and vice MIC rubber case: Assemble indicator light rubber case in corresponding position of display cover as the salient point facing downward. Assemble MIC rubber case in corresponding position as the MIC hole facing upward. (As picture below, **caution: MIC hole face upward.**)



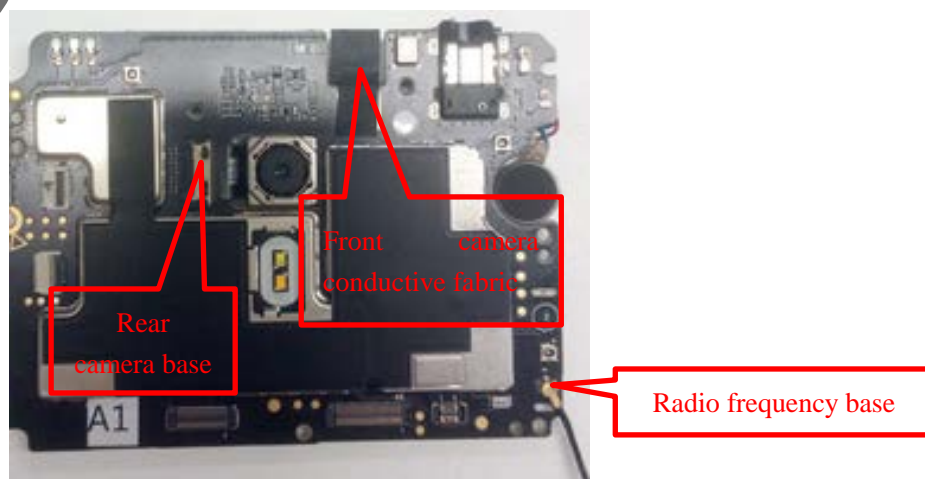
3. Solder motor: Check appearance of motor if there is appearance fault. Solder motor on the mainboard. (**Caution: Solder the red cable at the anode. Solder blue or black cable at the cathode. Temperature of soldering iron: $350^{\circ}\pm 20^{\circ}$. Time of soldering: Single spot for 1-2 seconds.**)



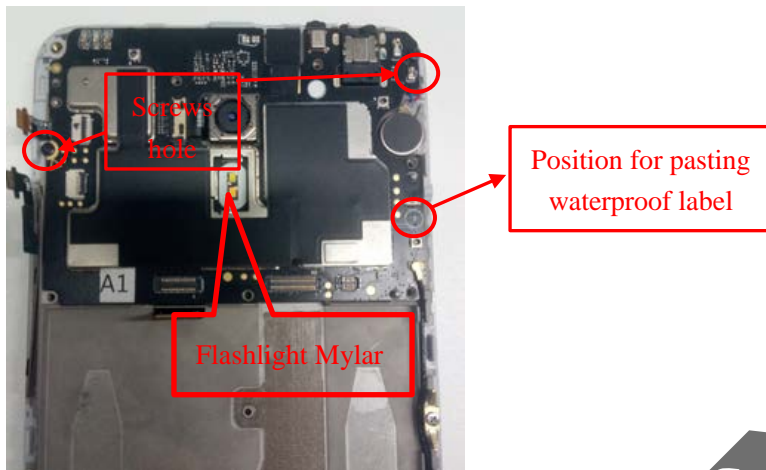
4. Assemble front camera, light sensitive rubber case on mainboard and paste dustproof nylon net up: Check front camera to make sure that there are no appearance faults. Clasp the front camera connector on the mainboard. Assemble light sensitive rubber case on the light sensitive component as the gap facing downward. Tear off vice MIC hole adhesive tape and paste the dustproof net on the vice MIC hole.



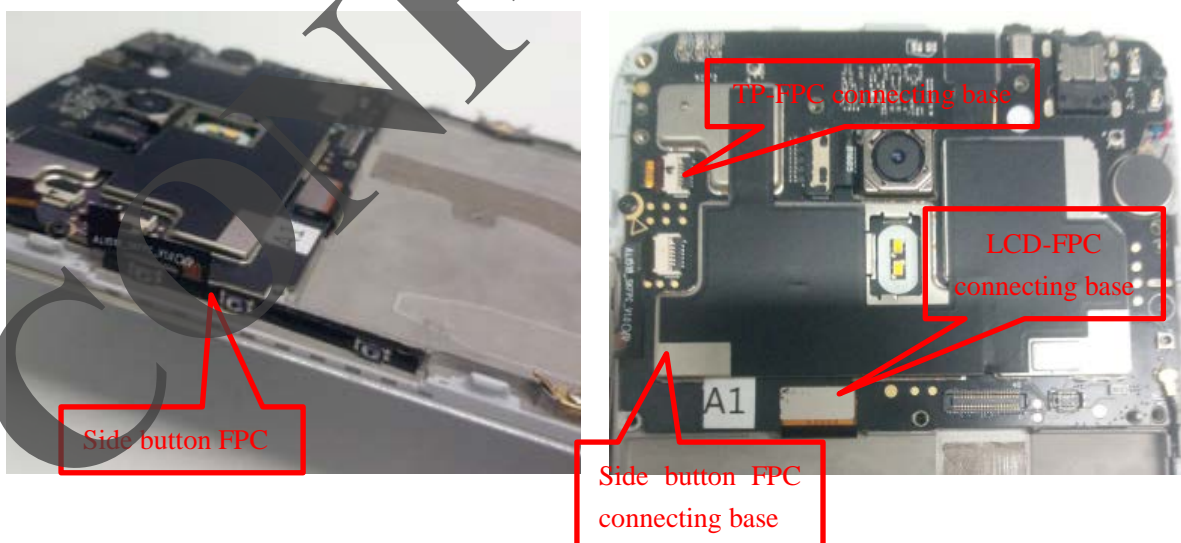
5. Assemble rear camera, coaxial radio-frequency cable and paste front camera conductive fabric up: Clasp rear camera at rear camera connecting base. Clasp one side of coaxial cable on mainboard radio-frequency. Paste front camera conductive fabric at specified position. (As picture below)



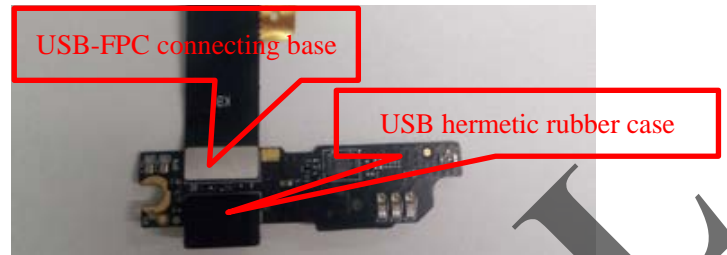
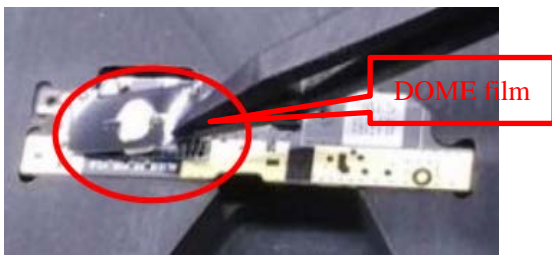
6. Assemble mainboard and fasten 2 screws on mainboard and paste 1 waterproof label and flashlight Mylar: Check receiver, indicator light rubber case and vice MIC rubber case if assembled well in correct direction on the display cover module. Check front camera and rear camera if assembled well on mainboard module. Check light sensitive rubber case if assembled in correct direction. Assemble mainboard module in display cover and fasten mainboard screws. Tear off bilateral adhesive tape on motor and paste motor in motor slot tightly. Paste waterproof label on mainboard. (As picture below, **caution: Need replace old bilateral adhesive tape on motor by new one if the stickiness of bilateral adhesive tape become weak after maintenance to make sure that motor is pasted well and tightly in case of the fault of producing vibration noise.**)



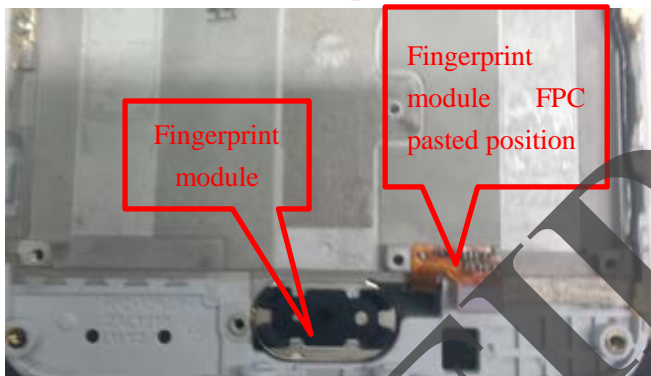
7. Assemble side button FPC and clasp TP-FPC and LCD-FPC: Check side button FPC and make sure whether there is appearance fault. Tear off release paper on side button FPC and assemble side button FPC at specified position on display. Fasten side button FPC connecting base after assembling side button FPC and paste side button FPC on the mainboard. Fasten TP-FPC connecting base and LCD-FPC connecting base. (As picture below, **caution: Press the buckle softly after assembling to make sure connector assembled well.**)



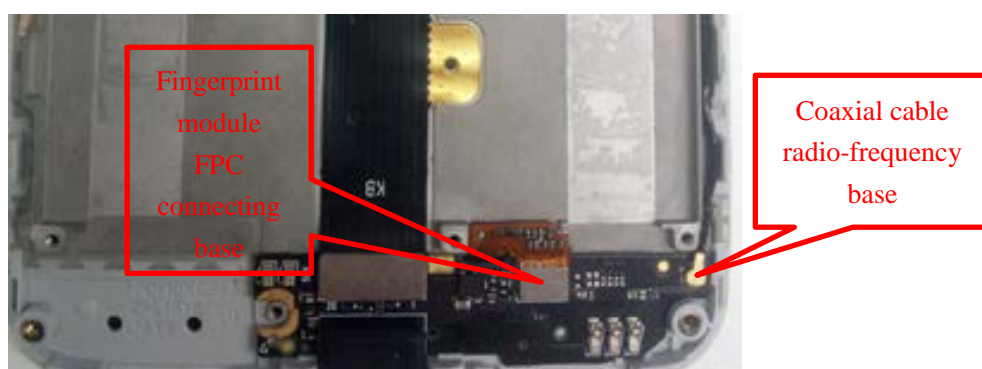
8. Paste little board and DOME film and assemble USB hermetic rubber case and clasp USB-FPC: Check appearance of little board whether there is appearance fault. Assemble DOME film at specified position on little board. Assemble USB hermetic rubber case on USB and clasp USB-FPC on the connecting base. (As picture below, **caution: DOME film need be pasted in the pasted frame of little board DOME film.**)



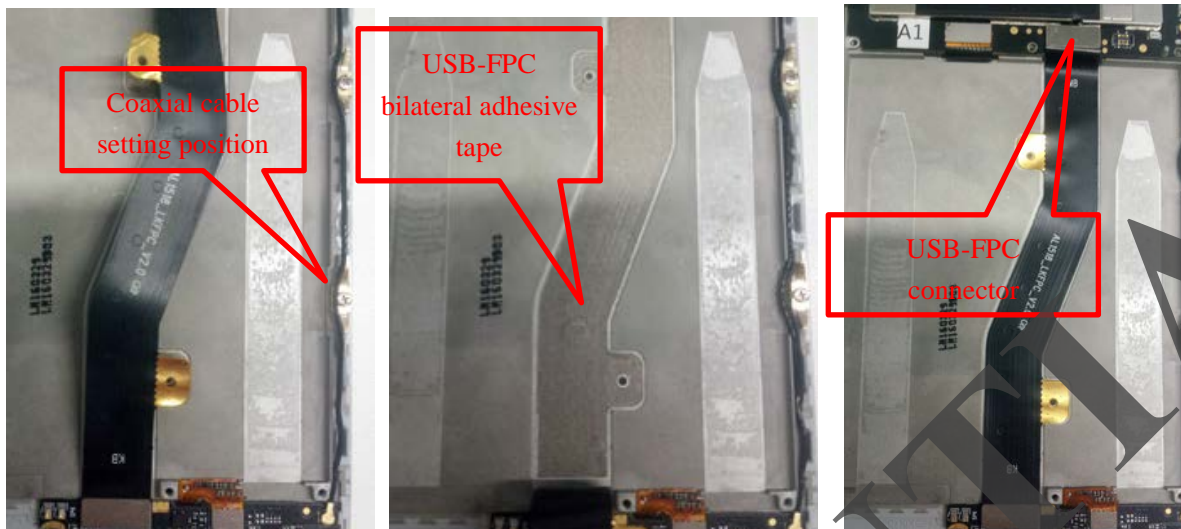
9. Assemble fingerprint module and little board into display cover: Tear off fingerprint module FPC back gum release paper at the bottom of cellphone. Check appearance of fingerprint module whether there is appearance fault. Assemble fingerprint module in corresponding hole on display cover. Paste FPC on the magnesium alloy according to the located mast. Tear off MIC hermetic adhesive tape on little board and assemble little board into display cover module. (As picture below, **caution: Need replace old bilateral adhesive tape of fingerprint module FPC by new one if the stickiness become weak after maintenance to make sure it is pasted well.**)



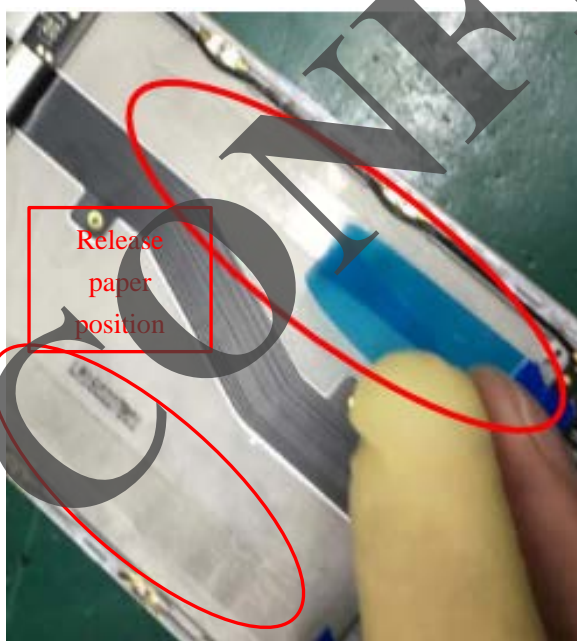
10. Clasp fingerprint module connector and coaxial cable: Get display cover module which assembled with little board and check hand feeling of fingerprint module if felt well. Clasp fingerprint module connector and coaxial cable radio-frequency head on little board.



11. Tidy coaxial cable and tear off USB-FPC bilateral adhesive tape release paper and paste USB-FPC up: Press coaxial cable into cable slot and tear off USB-FPC bilateral adhesive tape release paper of magnesium alloy. Clasp USB-FPC on the mainboard and paste flat cable on the display cover. (As picture below, **caution: Need replace old bilateral adhesive tape of USB-FPC by new one if stickiness become weak after maintenance to make sure that USB-FPC is pasted well.**)



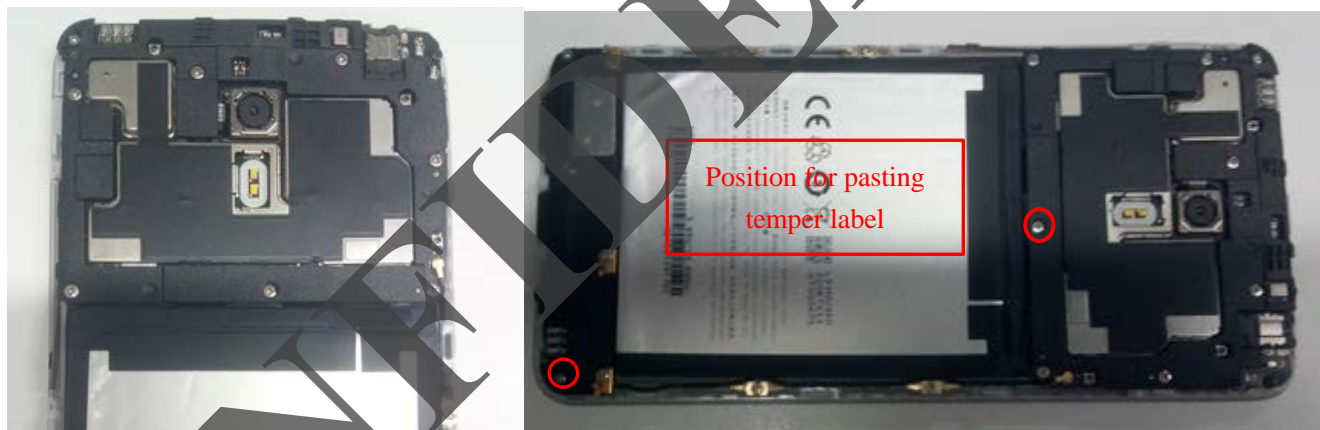
12. Assemble battery: Check 4pcs battery cover grounded clips if it is missed or deformation. Check screws on 4pcs battery cover grounded clips if fastened well. Tear off battery bilateral adhesive tape release paper of magnesium alloy. Check battery and FPC to make sure there is no scratch and breakage. Assemble well battery into magnesium alloy battery slot and press it flatly and tightly by hand. Paste drawstring on the battery and clasp the connector up. (As picture below, **caution: Need replace the old bilateral adhesive tape of battery by new one if stickiness become weak after maintenance to make sure that battery is pasted well.**)



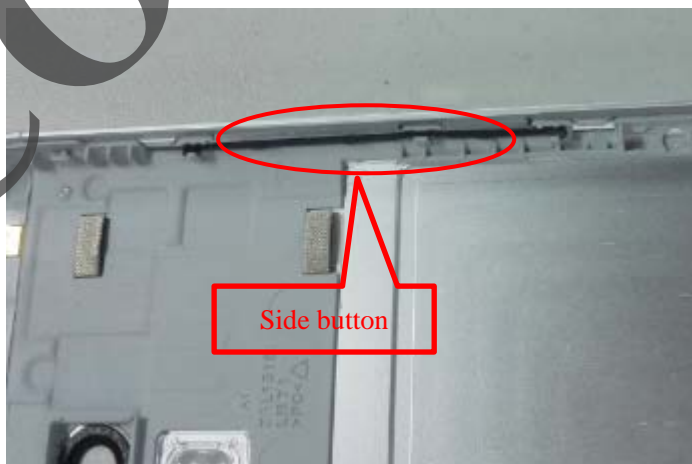
13. Assemble main MIC rubber case, speaker BOX and fasten 6PCS screws: Check speaker BOX whether there is appearance fault. Assemble main MIC rubber case to specified position on speaker BOX. Assemble speaker BOX on the display cover and fasten speaker BOX screws in order. (As picture below, **caution: Rubber case MIC hole faces upward.**)



14. Assemble mainboard holder and fasten 8 screws and paste 2 tamper labels: Check display cover module if battery is assembled well and connectors are clasped well. Assemble mainboard holder and fasten screws on mainboard holder in order. Paste 2pcs tamper labels at specified screws hole. (As picture below)



15. Check appearance of battery cover and assemble side button: Check battery cover module if there is any scratch, breakage or parts missing. Assemble side button in battery cover. (As picture below)



16. Assemble battery cover: Check each part if assembled well on display cover module which it is pasted with tamper label. Especially check 4 grounded clips and 3 speaker tight clips if they fall off. Tear off rear camera protective film. Check side button if assembled well in battery cover. Assemble earphone in corresponding hole on battery cover firstly. Clasp display cover with battery cover from top to bottom. Check hand feeling of side button if felt well. Check rear camera hole if dirtied. (As picture below)



17. Fasten TP screws: Use 0.8mm Torx screwdriver to fasten 2 TP screws at the bottom of phone. (As picture below)



18. Assemble card tray: Assemble card tray at card slot.



19. Assembly finishes. Start the phone up to test.

