سرویس منوآل ،کالبدشکافی و شماتیک

گوشی سامسونگ A10S

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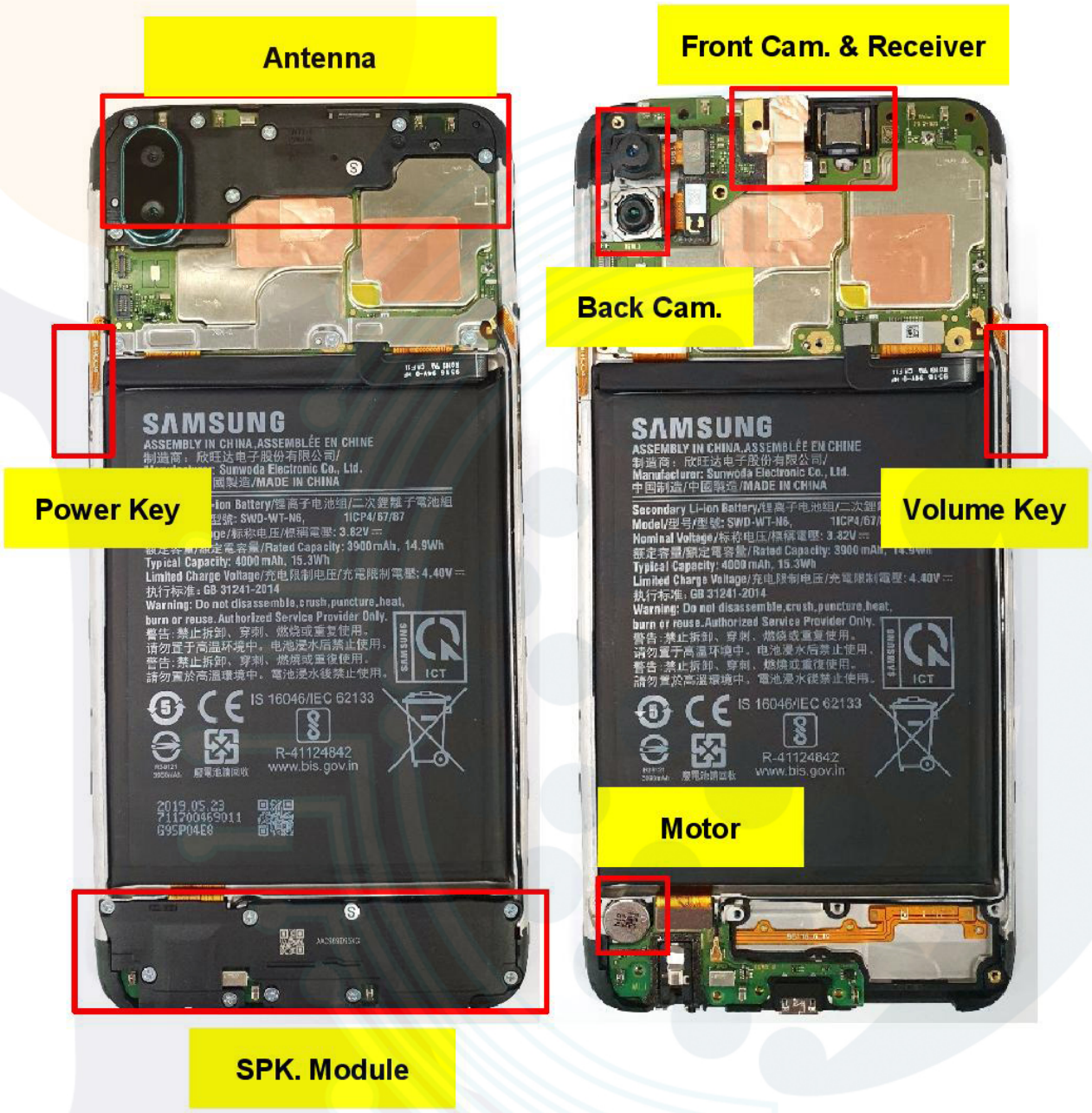

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Tweezers / Disass'y Stick / Screw Driver	Anti-static Gloves
Anti-static Mat	SIM thimble
Ethyl Alcohol	Cotton Swab

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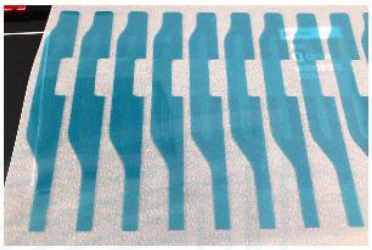
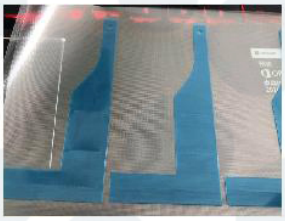
Parts when replacement the battery after repair.

SVC KIT CODE	Parts Name	Image	Remarks
SVC Battery Tape [GH81-17559A]	battery adhensive tape(No.1)		Left items must be changed to the new one in case of disassemble the Battery.
	battery adhensive tape(No.2)		
	battery adhensive tape(No.3)		

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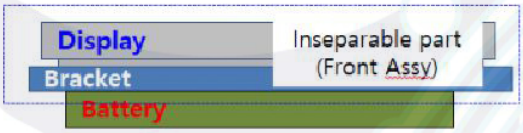
1) Do not reuse the battery.
2) Do not detach the battery from the bracket or display
   - If you detached battery, it has potential damage physically.
3) If you need to detach a battery from the bracket or dusplay.
   - Make sure replace the battery with new one.

Type	Structure	Battery replace
	Display and Bracket are not separated. Battery replacement is required when Front Ass'y component is defected. If the Front Assy is supplied without battery, please order battery together. ※ Do not reuse the battery.	O

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1. Disassemble SD Card SIM Tray from device. 	2. Remove Rear Cover from upper right to bottom side using disassemble tool.
※Caution 1) Be care of scratch	※Caution 1) Be care of scratch
3. Remove finger print FPCB using tool. 	4. Remove all 9 points of screws and disassemble the SPK box.
※Caution 1) Be care of scratch 2) Be care of Rear and Finger print damage	※Caution 1) Be care of Rear damage

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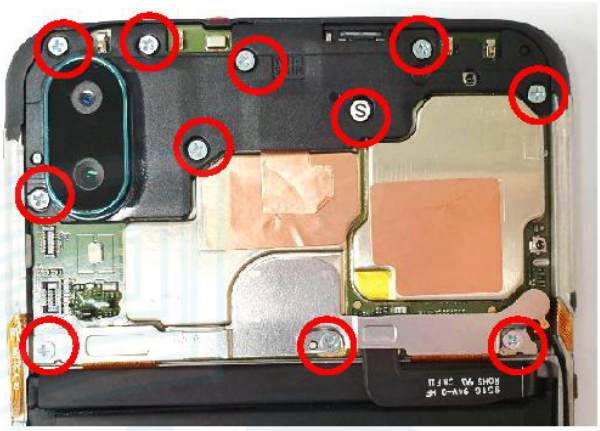
5. Remove the coaxial cable and FPCB Conn and disassemble the SUB PBA.

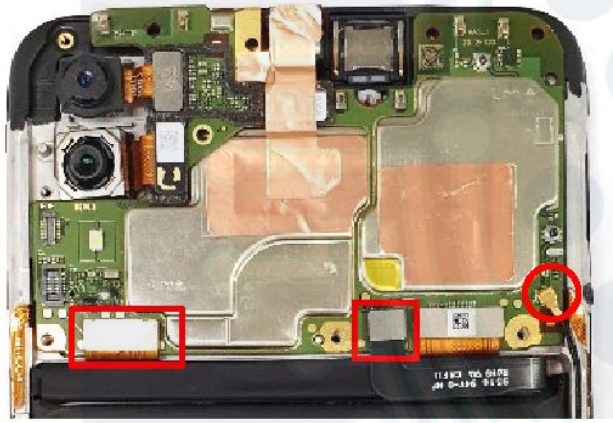
※Caution
1) Be care of several kinds of damage at PBA and FPCB.

6. Remove the all 11 screws and disassemble the SUB PBA



※Caution
1) Be care of scratch

7. Remove the coaxial cable and FPCB.



※Caution
1) Be care of several kinds of damage at PBA and FPCB.

8. Remove the Main PBA and others.

※Caution
1) Be care of several kinds of damage at PBA and FPCB.

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9. Put ethyl alcohol into the outside of battery with clean swab and slightly tilt the front case to soak alcohol inside enough.

※ Caution
1) Do NOT use any sharp tools(disassembly stick, knife, any plastic or tweezers).

10. Lift battery using battery disassembly vacuum.

※ Caution
1) Be careful not to damage the Battery.

11. Remove all residues of tapes.

※ Caution
1) Be care of several kinds of damage

11. Remove the Motor, RCV, Power & Volume key.

※ Caution
1) Be care of several kinds of damage

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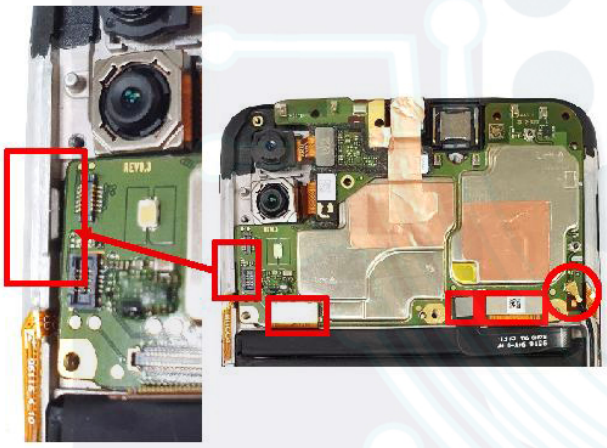
1. Attach the battery tapes.

※ Caution
1) Be care of tapes damage

2. Attach the battery and press it using your hands.

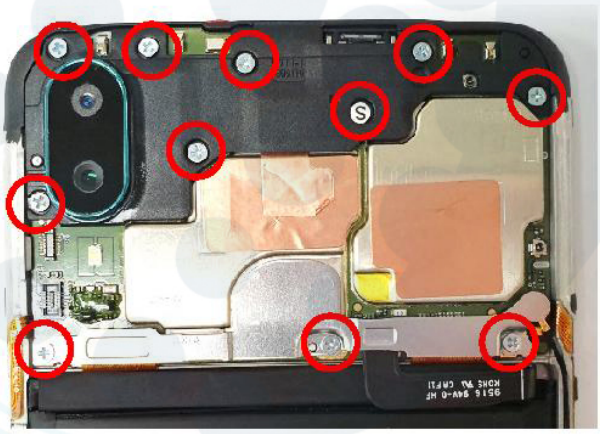
※ Caution
1) Be care of battery damage.

3. Place the main PBA on the bracket and connect all connectors firmly.



※ Caution
1) Be care of FPCB damage.

4. Tighten 11 screws.
※ Screw torque: 0.6 /-0.5kgf



※ Caution
1) Be care of damage.

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3. Place the SUB PBA and connect all connectors firmly. 	4. Assemble the SPK box and tighten 9 screws. ※ Screw torque: 0.6 /-0.5kgf
※ Caution 1) Be care of FPCB and coaxial cable	※ Caution 1) Be care of SPK box damage
5. Connect the finger print sensor FPCB and assemble the rear cover. 	6. Press the outside of Rear cover with thumbs enough.
※ Caution 1) Be care of scratch and REAR damage	※ Caution 1) Be care of scratch and REAR damage

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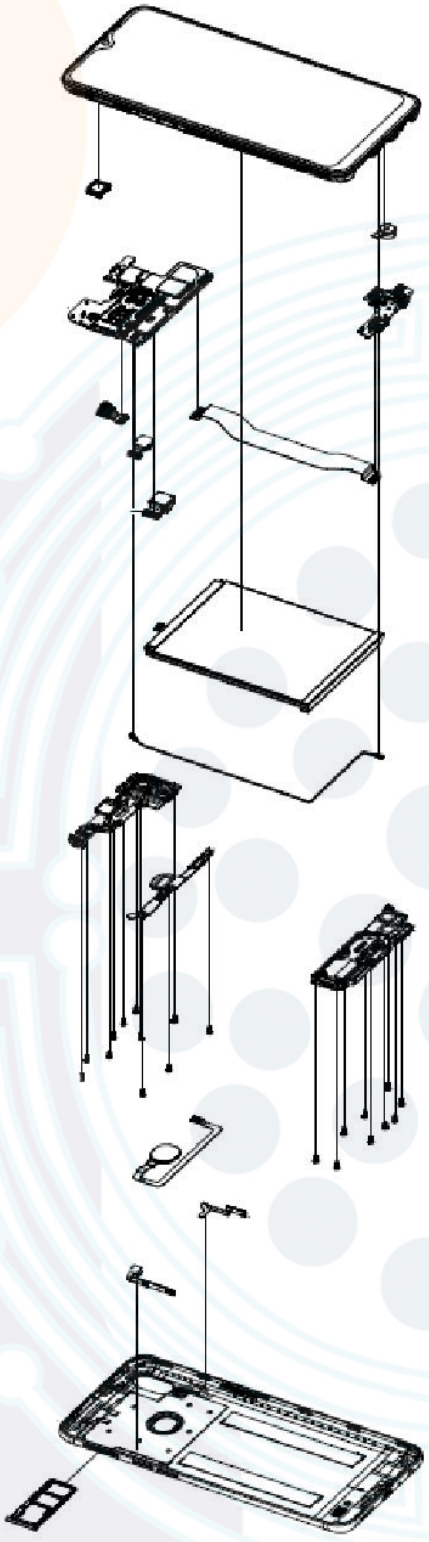
کالبد شکافی گوشی A10S



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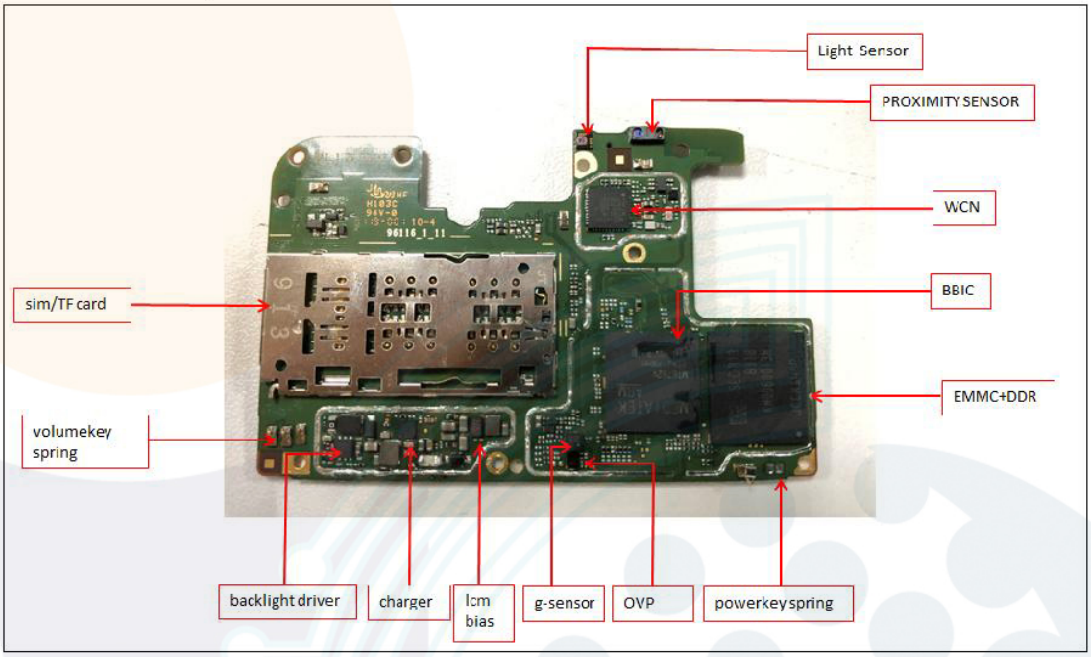
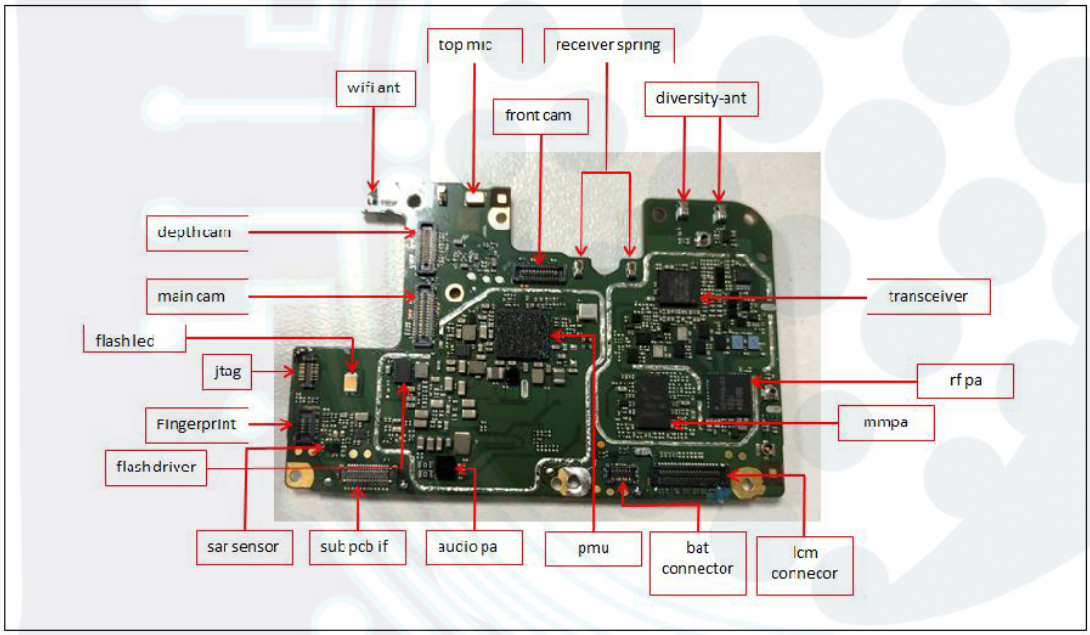
8. Level 3 Repair

8-1. Components Layout

Main board top view



Main board bot view



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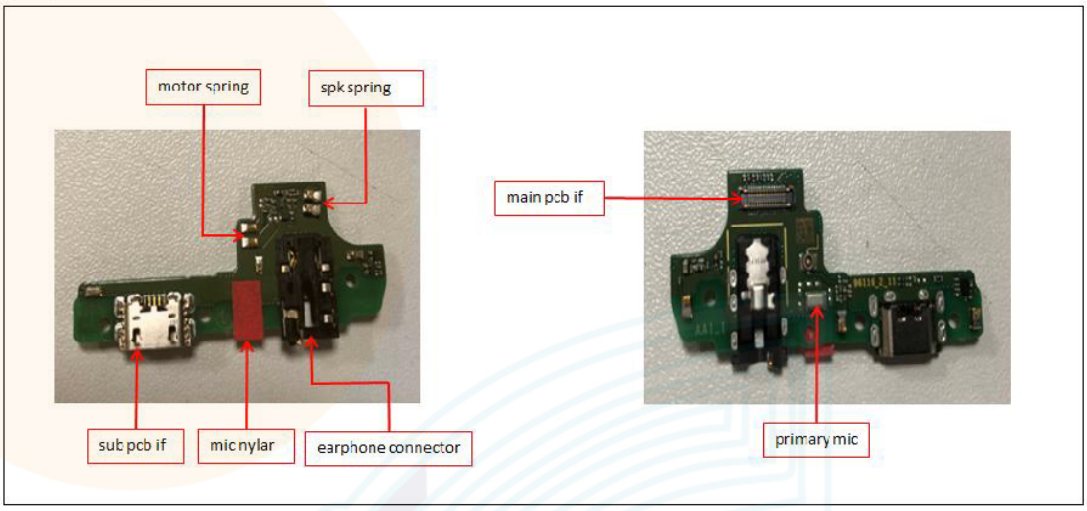
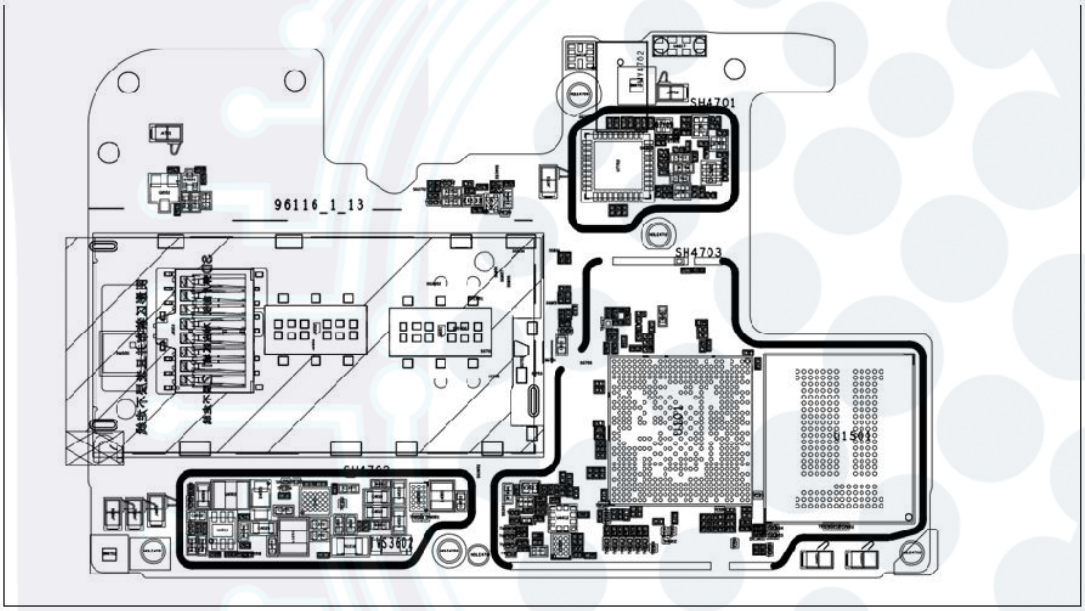
8. Level 3 Repair

Sub board



Reference map
Mb top view



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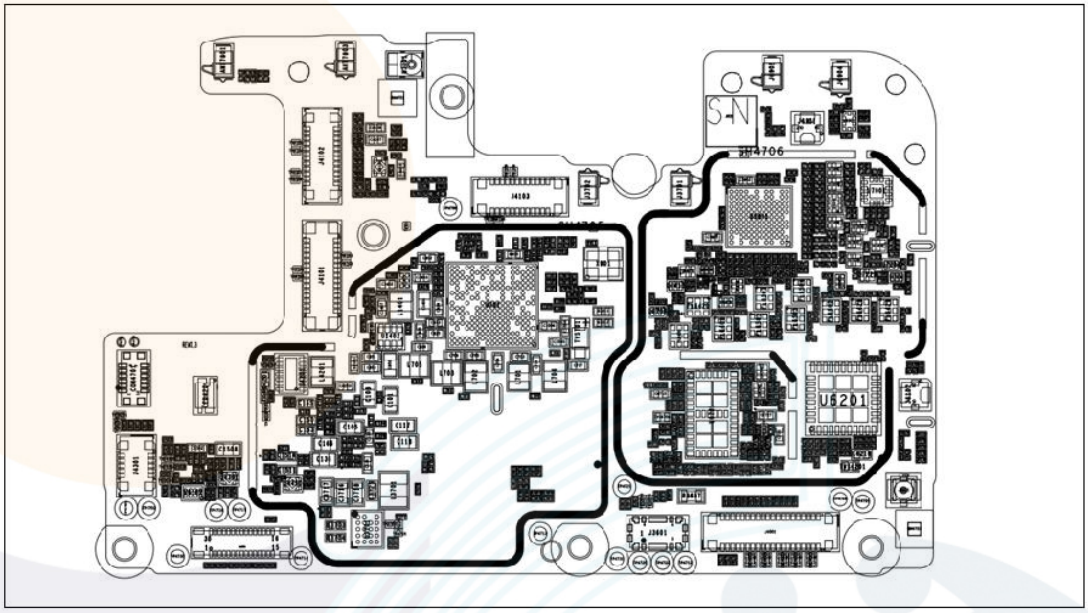
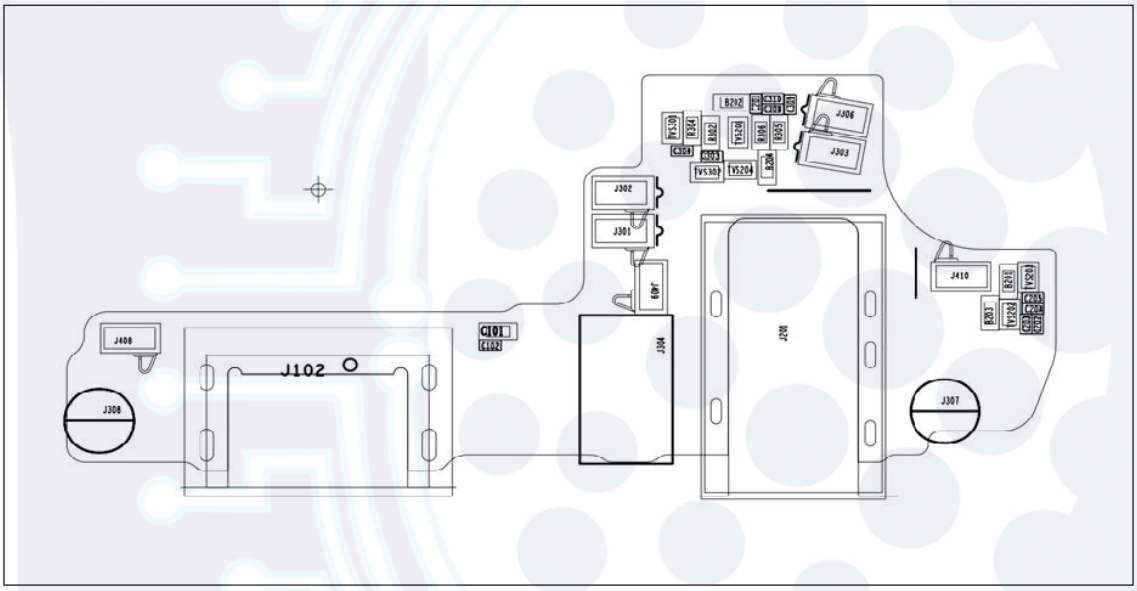
8. Level 3 Repair

Mb bot view



Sub top view



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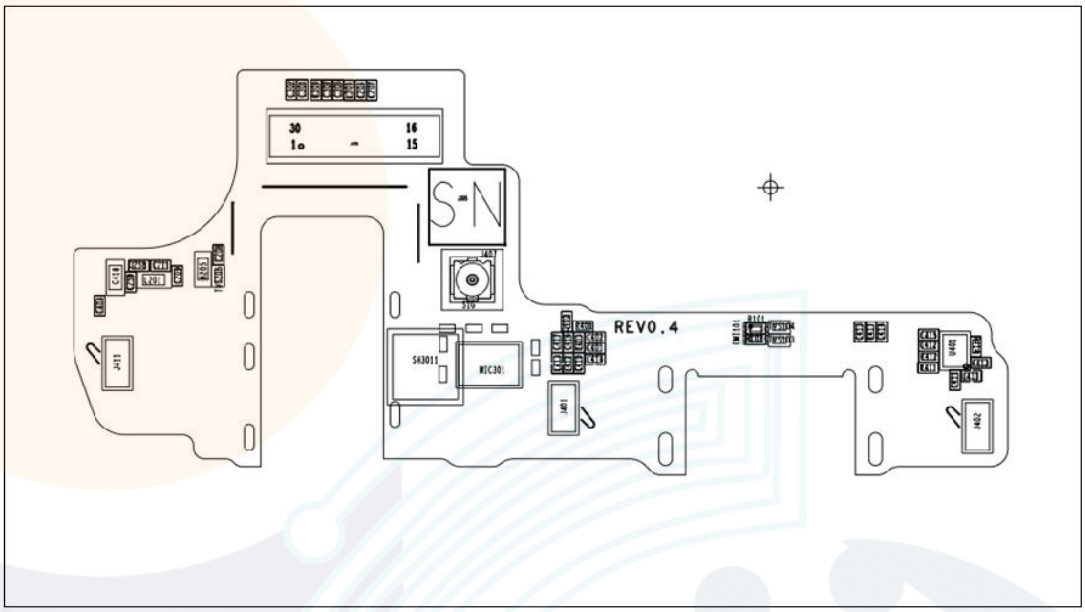
8. Level 3 Repair

Sub bot view



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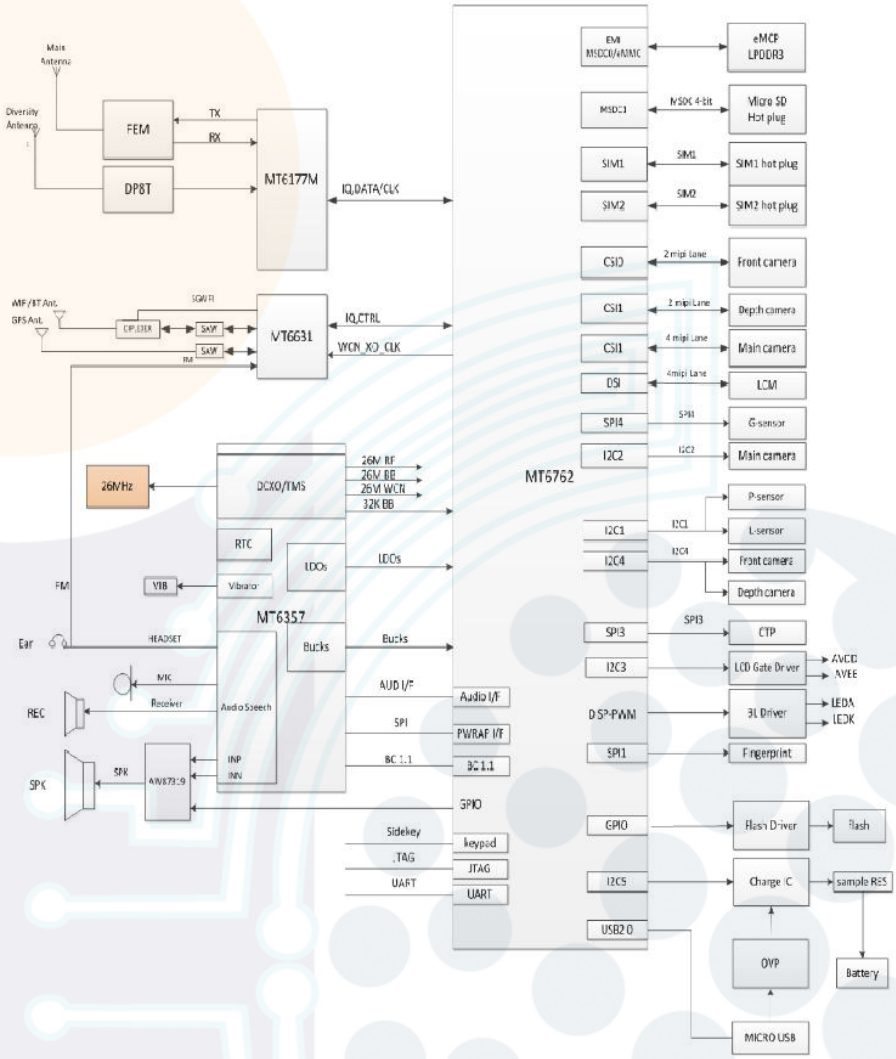
8. Level 3 Repair



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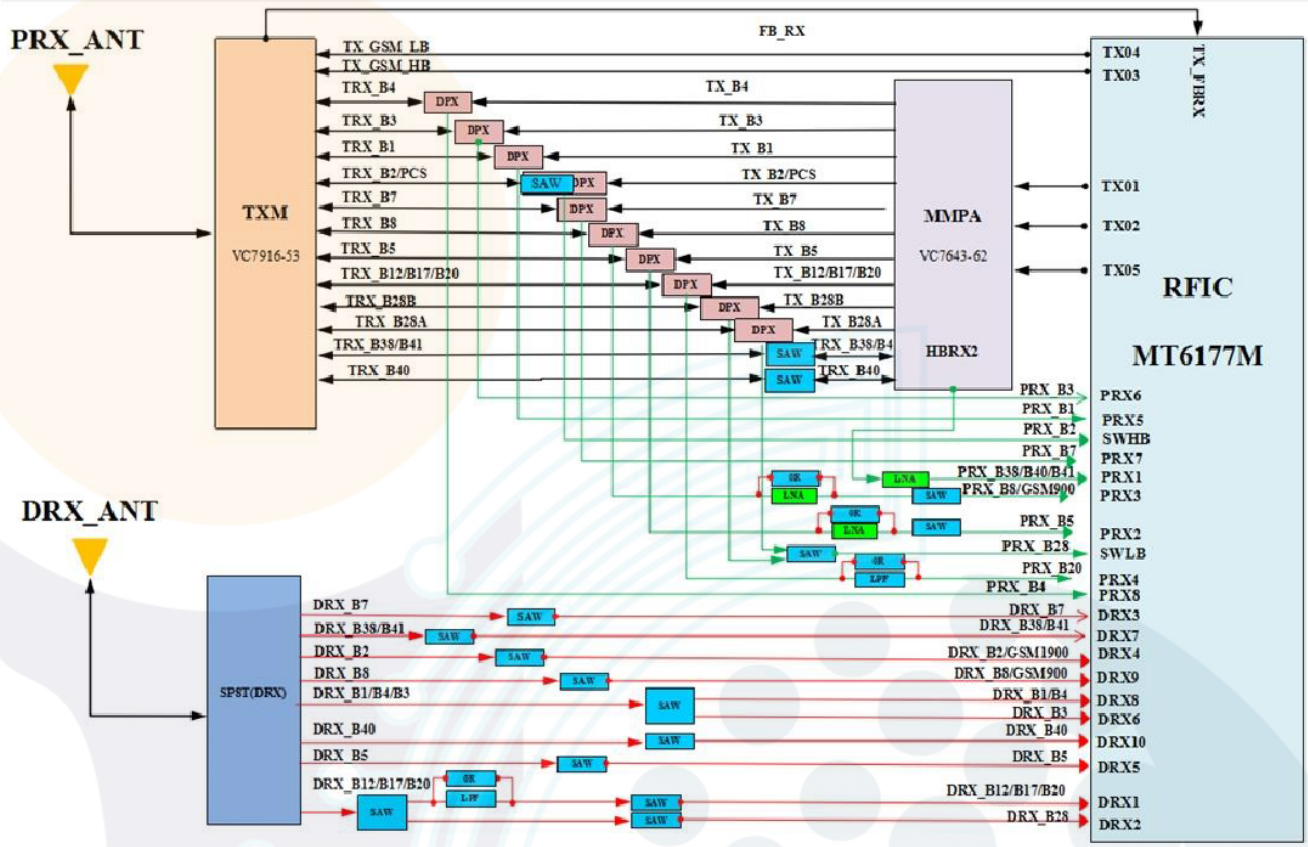
8. Level 3 Repair



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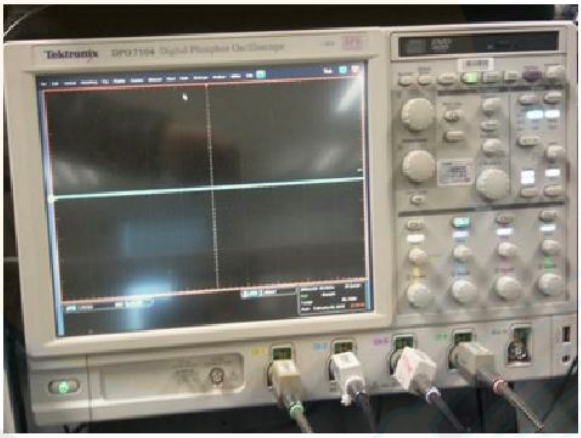
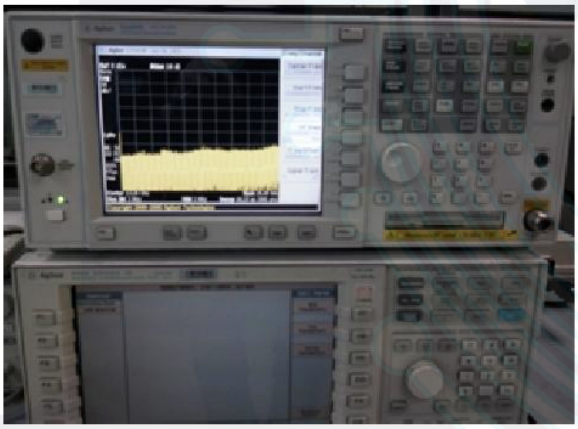
8. Level 3 Repair

8-3. Flow chart of Troubleshooting.

	
Oscilloscope	Digital multimeter
Power Supply	+ driver, ESD Safe Tweezer
	
8960 & Spectrum Analyzer	Soldering iron

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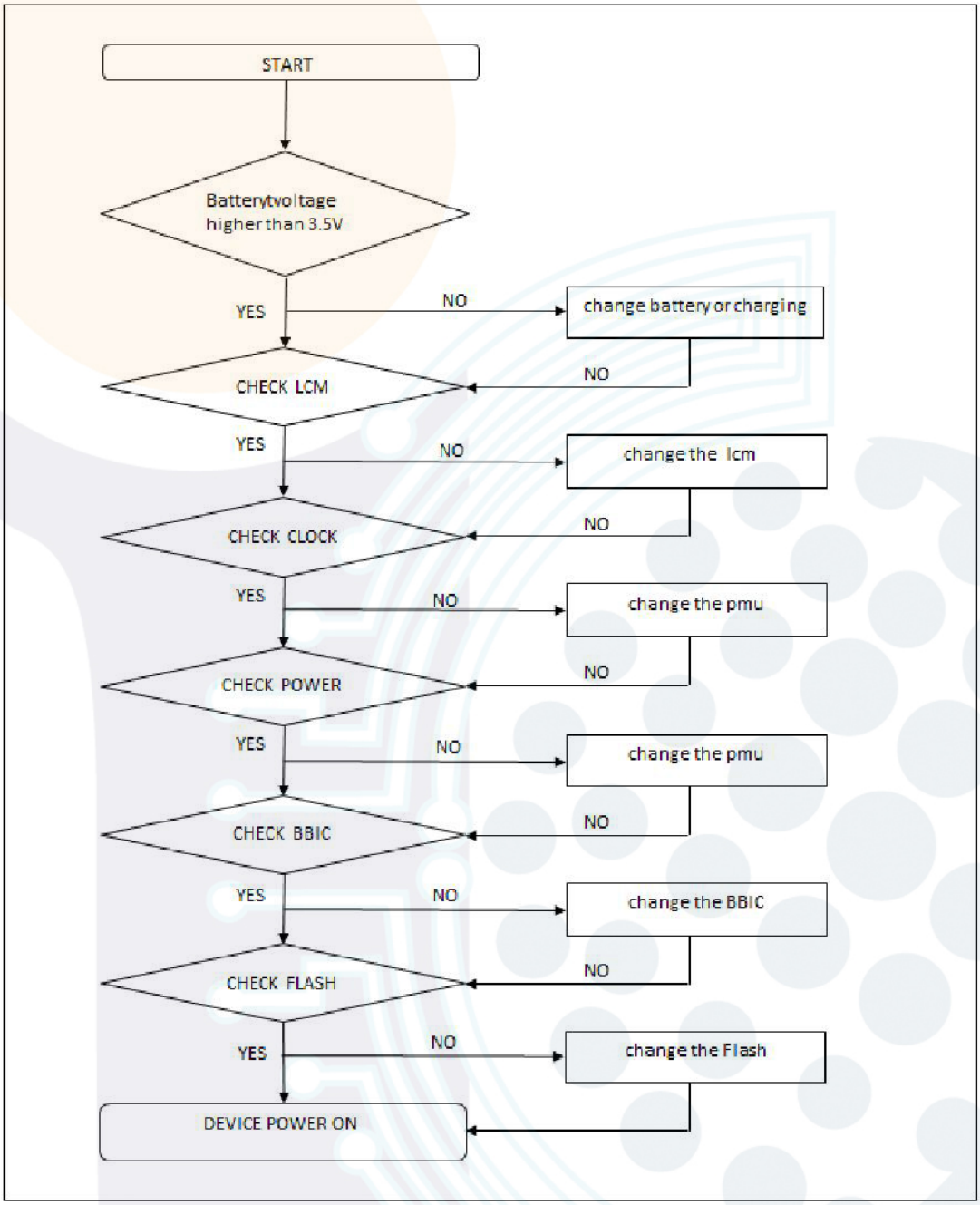
8. Level 3 Repair

8-4-1. Power On

: Checking Power signal (LCM, PMU, Clock)



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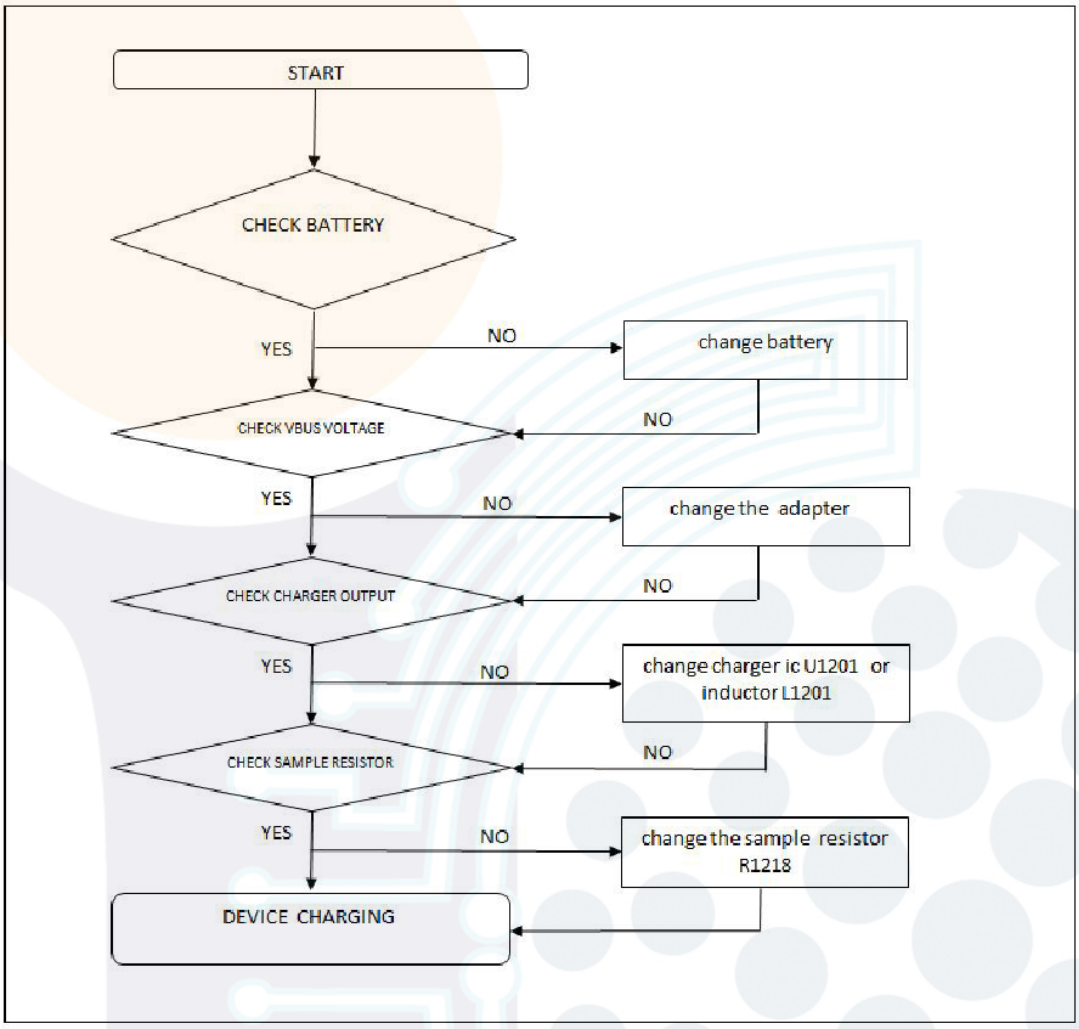
8-4-2. Charging
: The charging controlled by third charger chip



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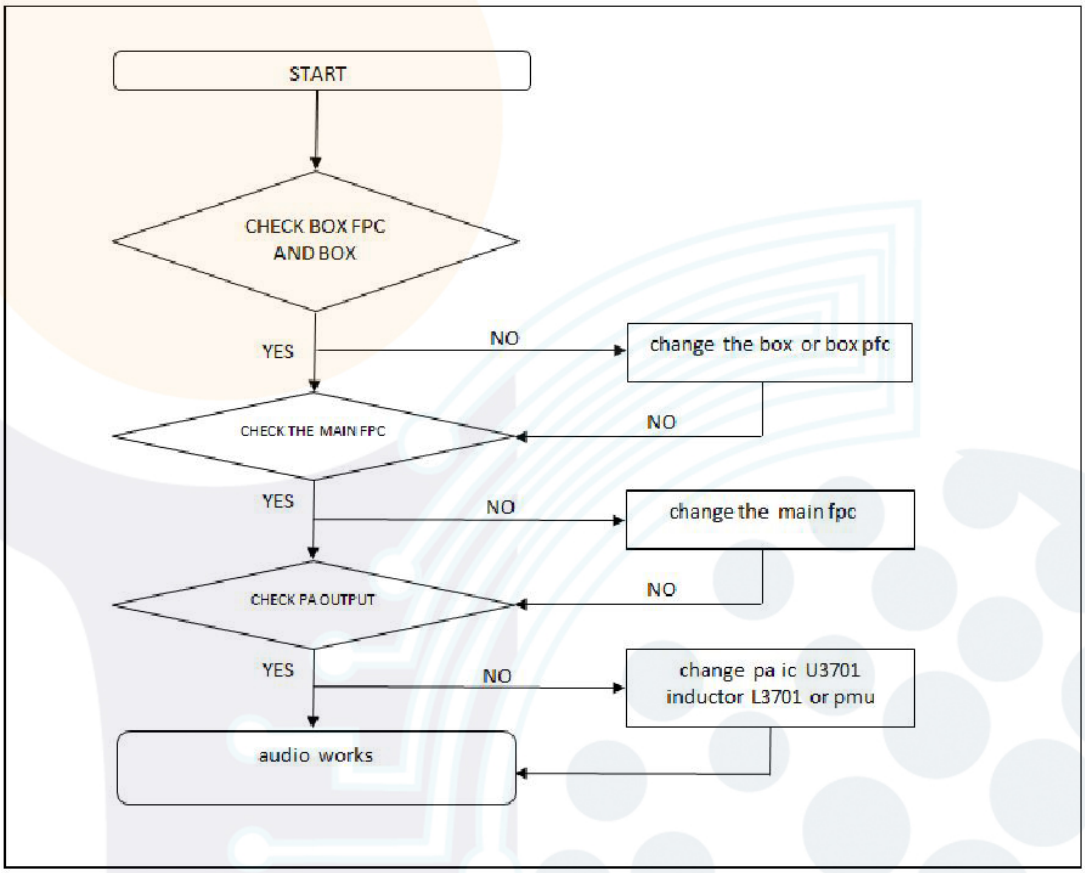
8-4-3. Audio speaker

: The Speaker control signals are generated by MT6357 (U701) and PA AW87319 (U3701), the chip, PA and the speaker are to be checked out.



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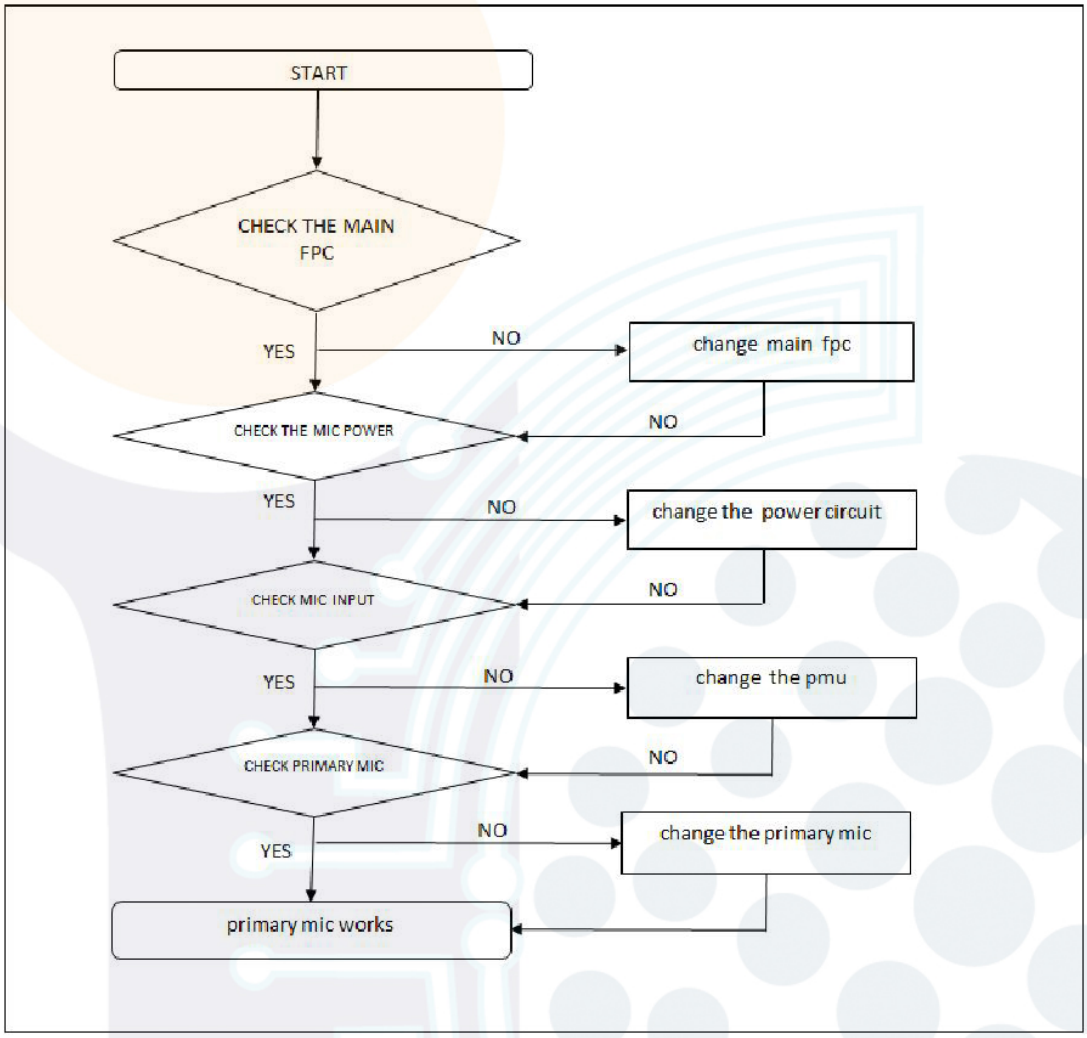
8-4-4. Audio Main MIC

: The MIC control signals are generated by PMU chip MT6357 (U701), the PMU chip and the MIC are to be checked out.



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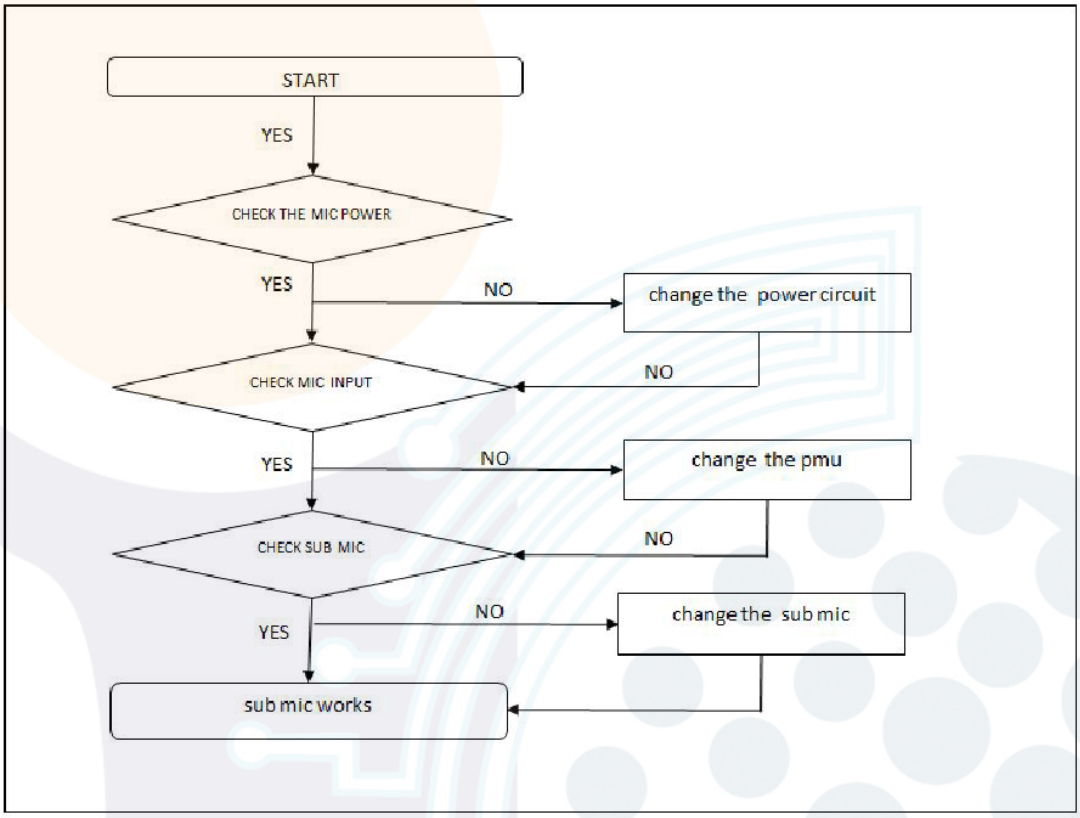
8-4-5. Sub MIC

: The MIC control signals are generated by PMU chip MT6357 (U701), the PMU chip and the MIC are to be checked out.



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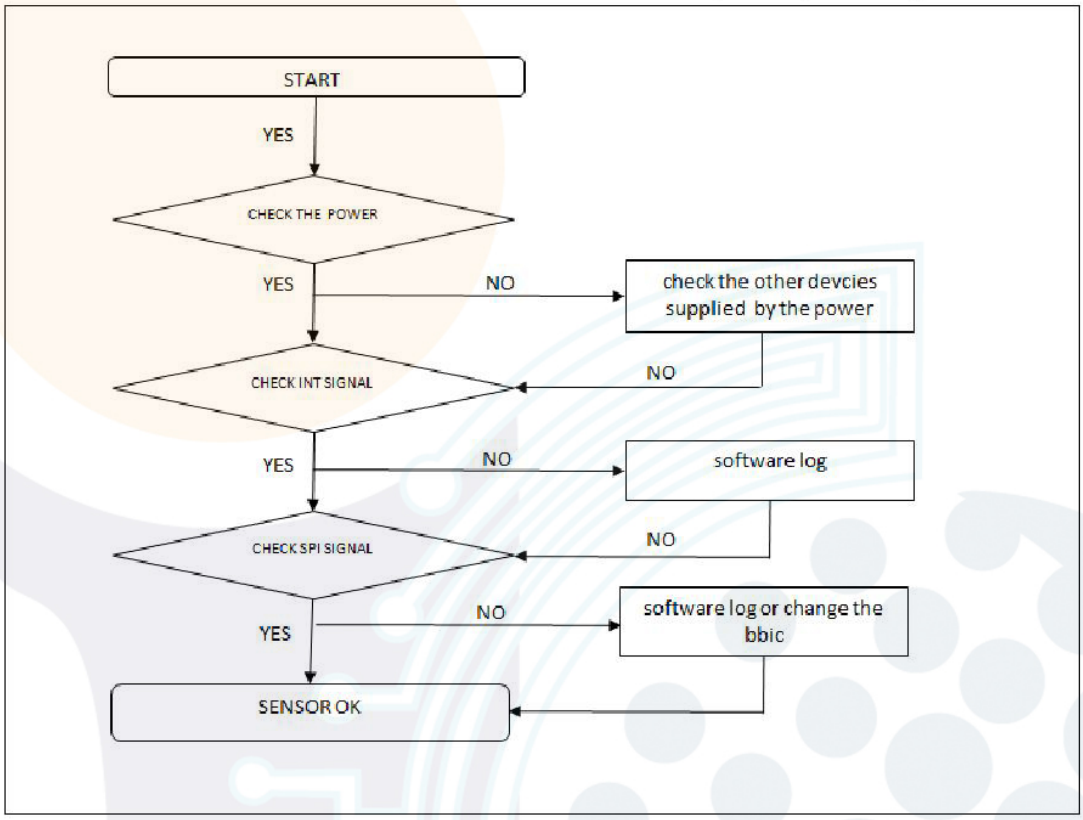
8-4-6. Accelerometer sensor

: The Accelerometer sensor is calibrated by using SW algorithm.



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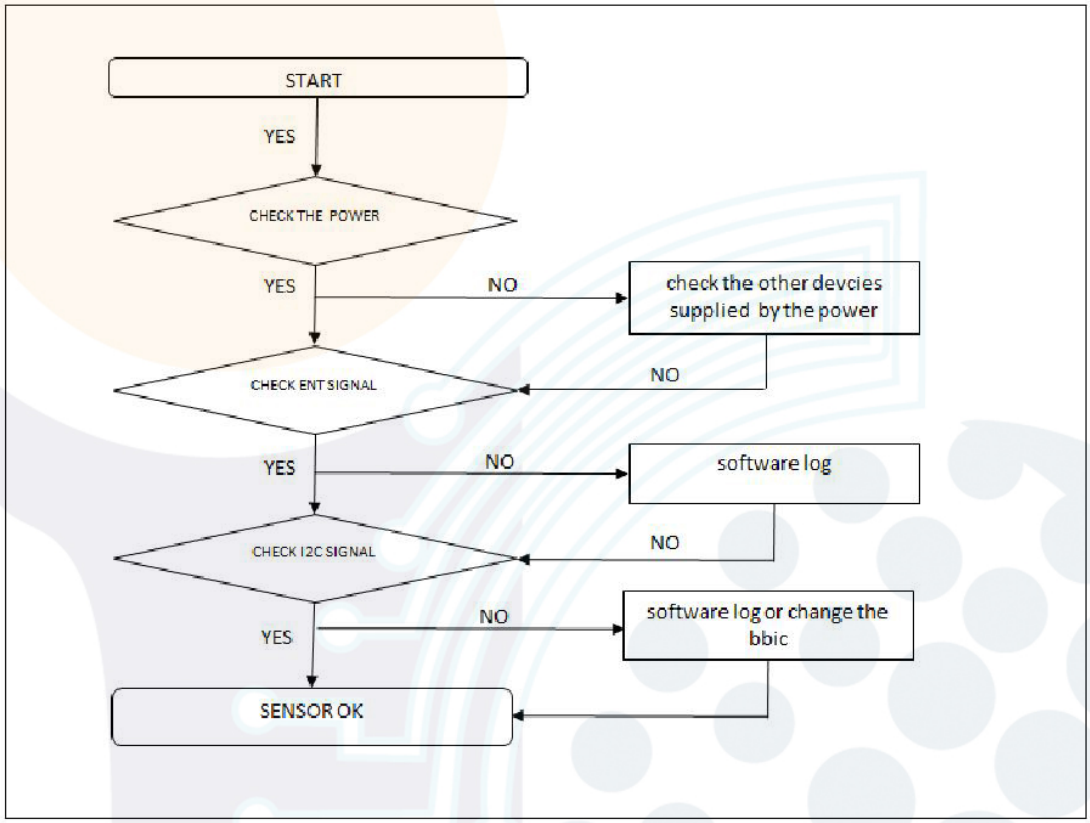
8-4-7. Proximity and light sensor

: Proximity (U4417) and Light Sensor (U4416) is worked as below: Control the screen's on/off operation automatically while making phone calls, and adjust the screen brightness according to ambient light.



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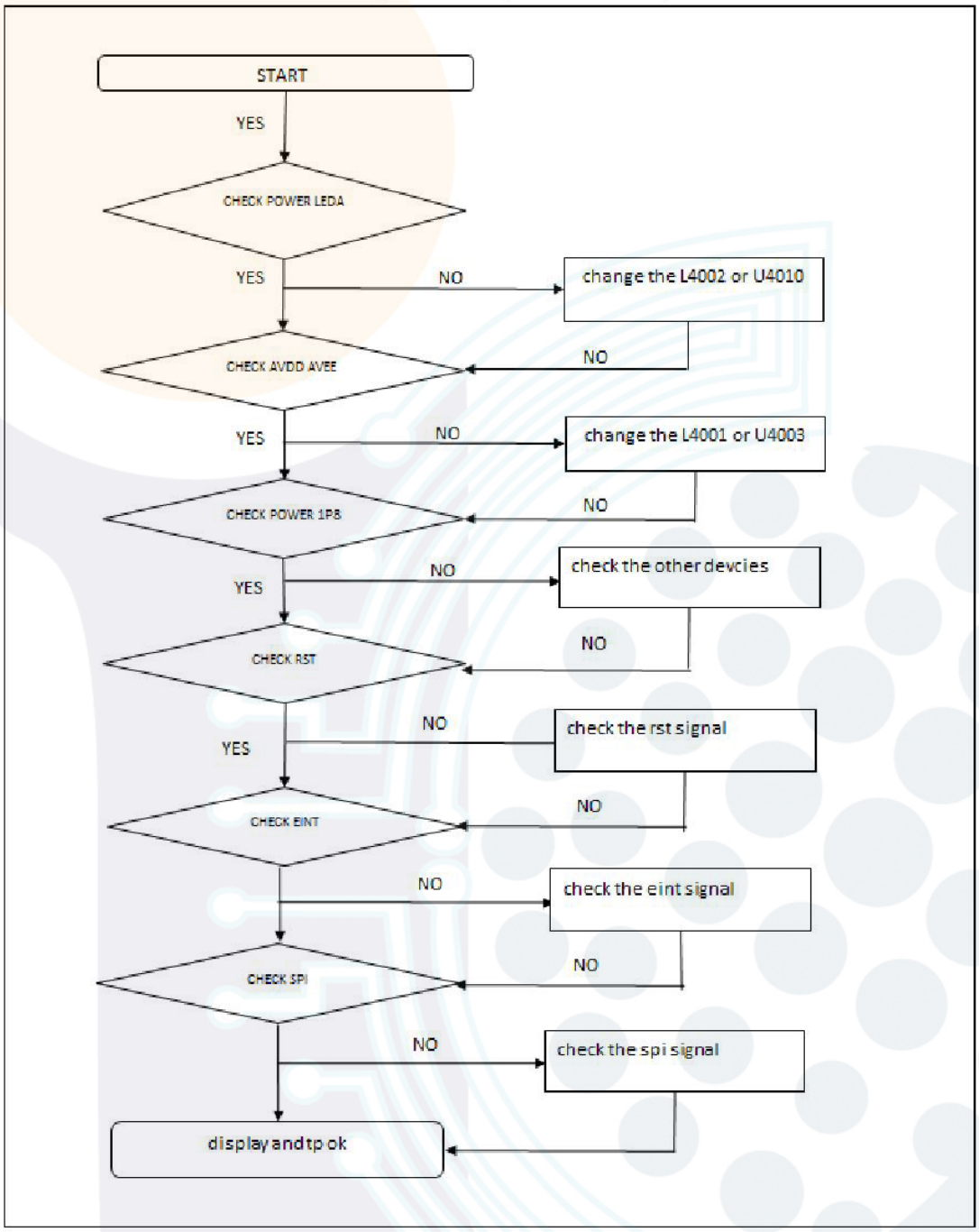
8-4-8. TOUCH SCREEN AND DISPLAY

: The Touch control signals are generated by MT6762. It is assembled with LCD.



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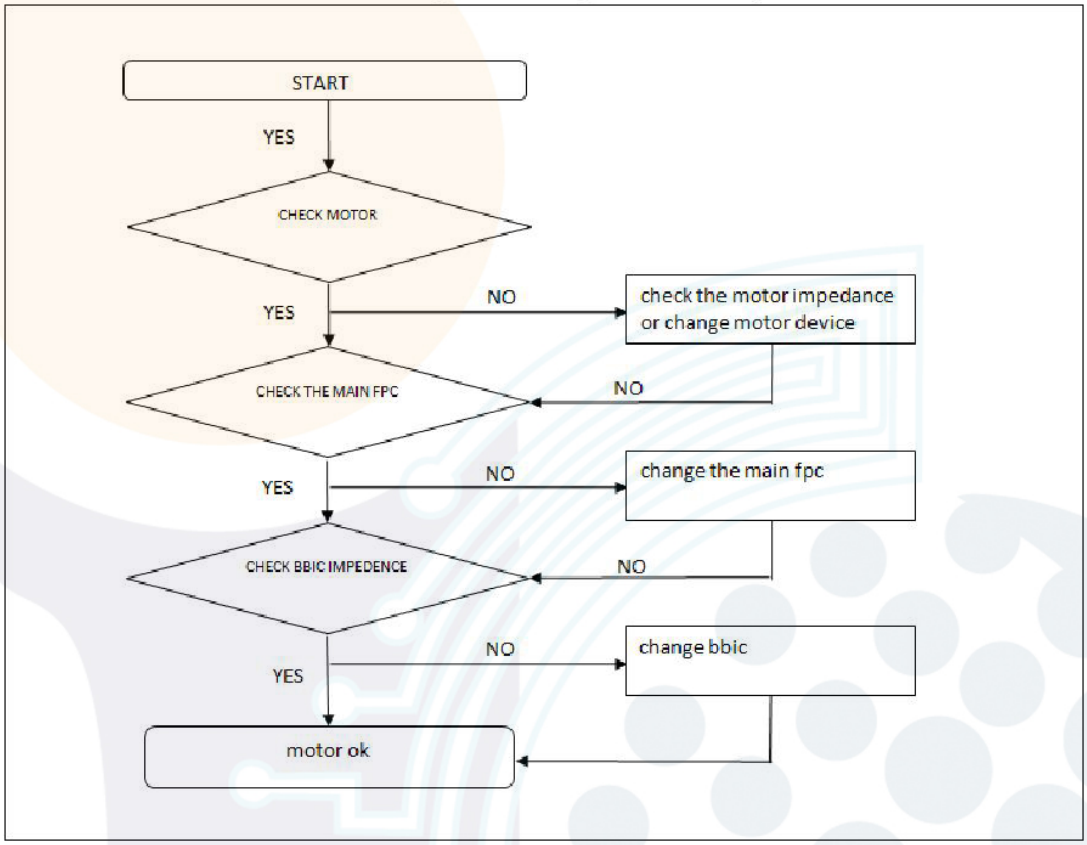
8-4-9. Vibrator

: The Vibrator control signals are generated by MT6357.



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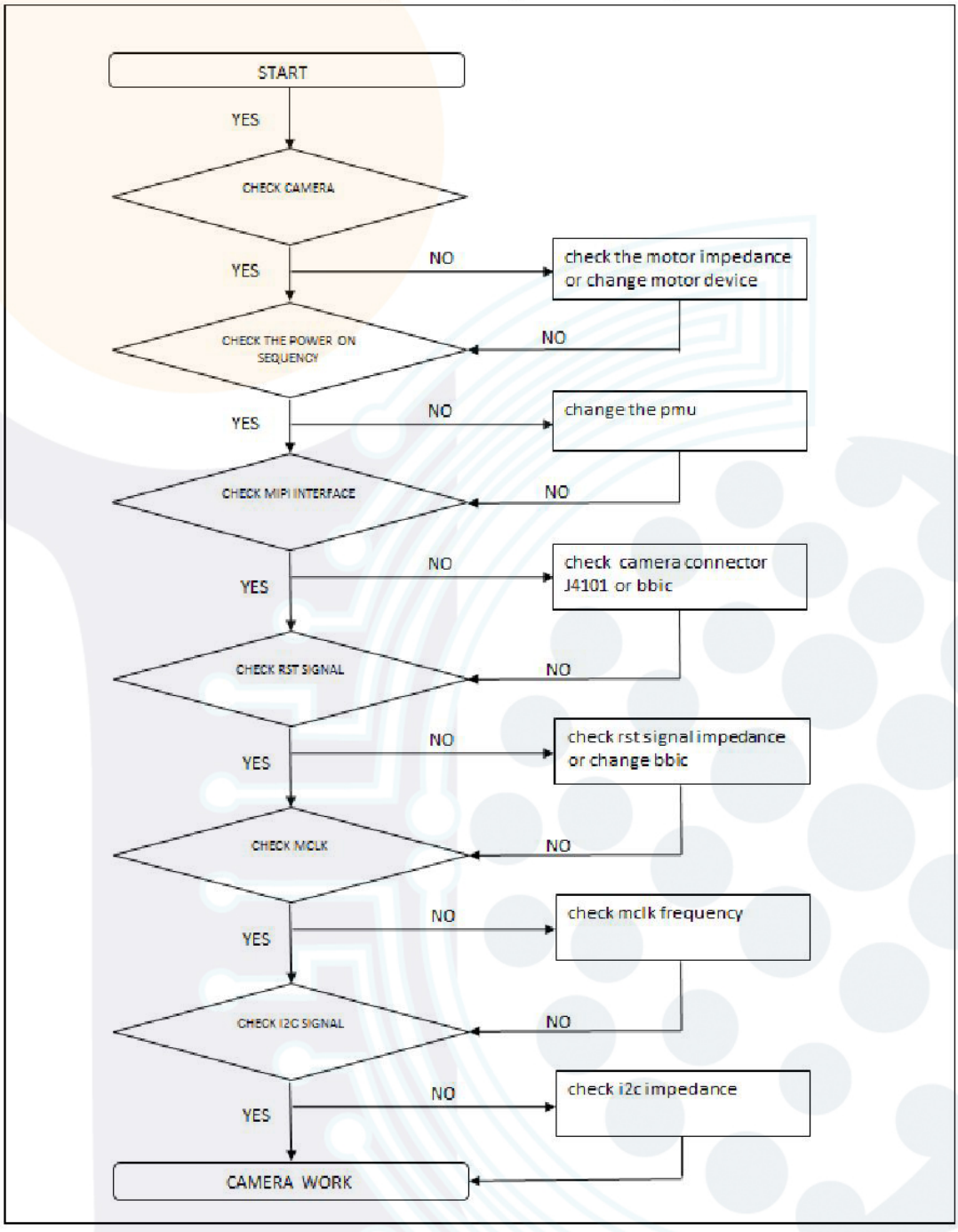
8-4-10. Rear Camera

: The Camera control signals are generated by MT6762.



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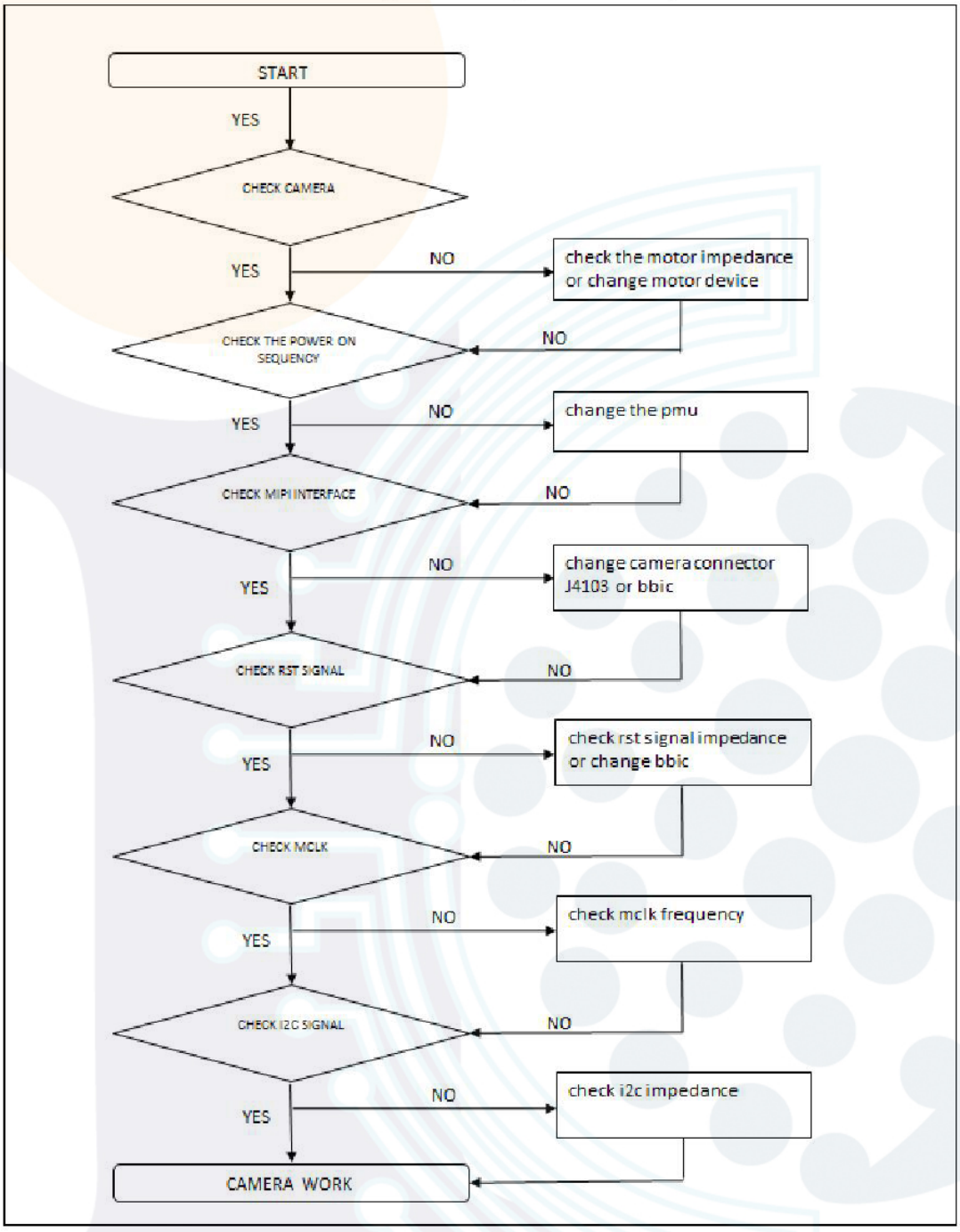
8-4-11. Front Camera

The Camera control signals are generated by MT6762.



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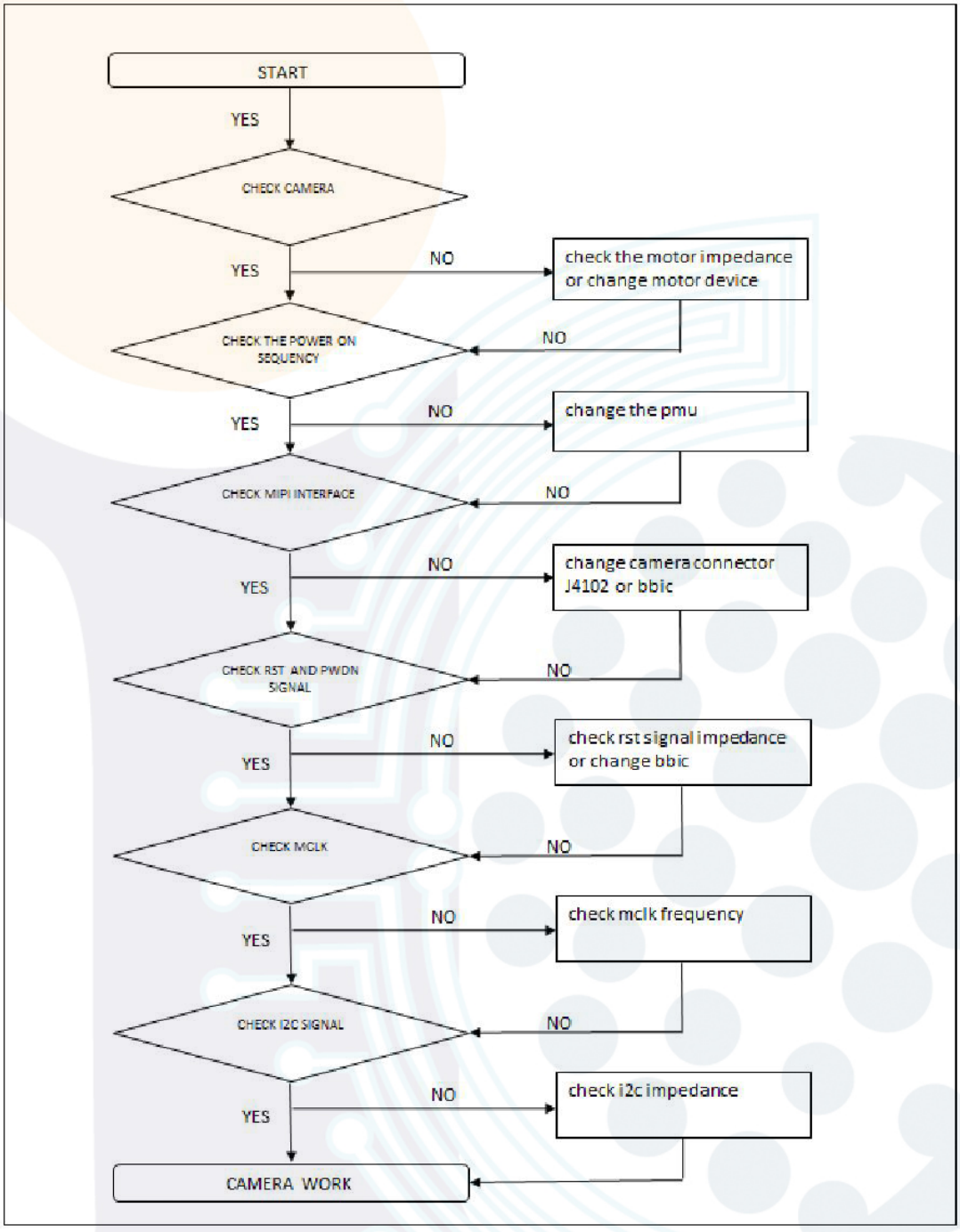
8-4-12. Depth Camera

: The depth Camera control signals are generated by MT6762.



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8. Level 3 Repair

8-5. Service Schematics

- U101_MT6762_BB chip IC , Digital *Baseband Processor*(Top)

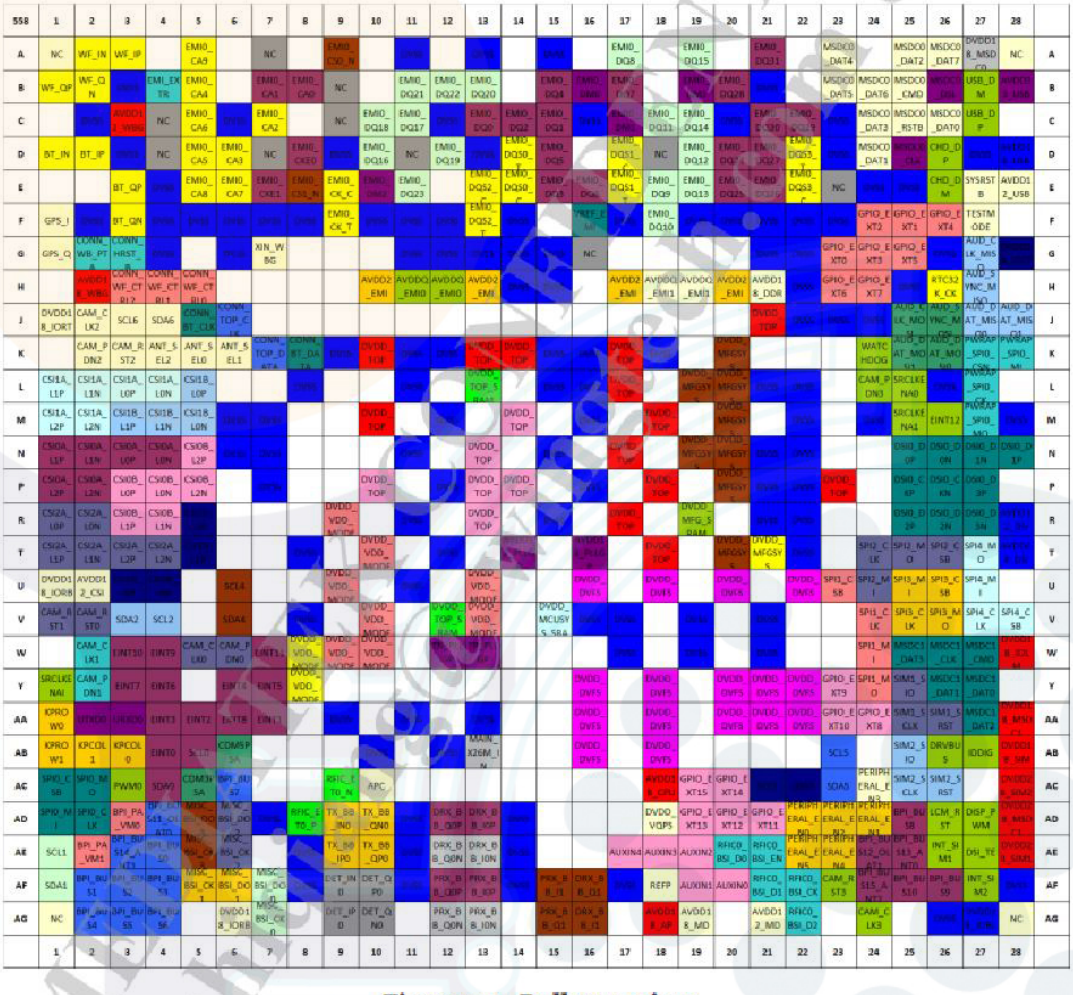

Figure 2-1. Ball map view

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