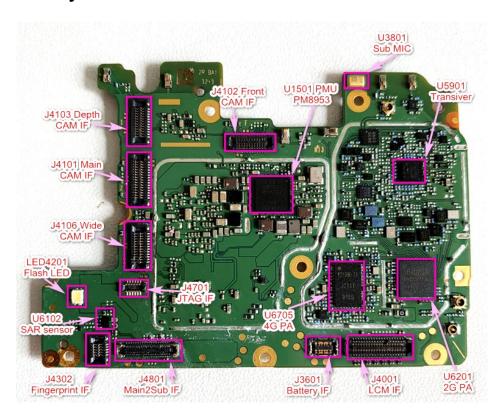
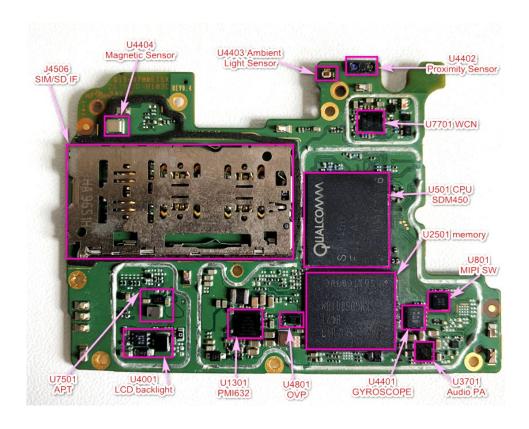
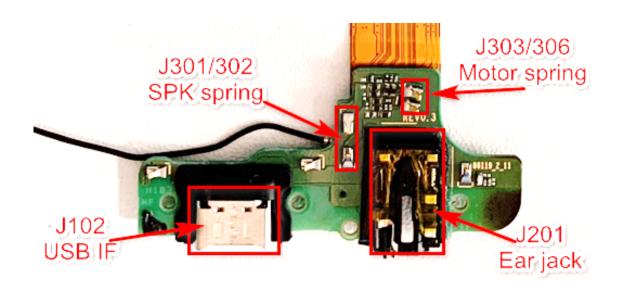
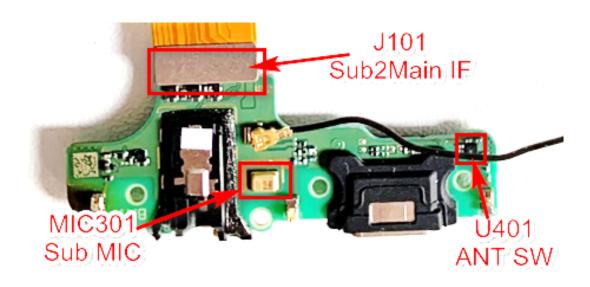
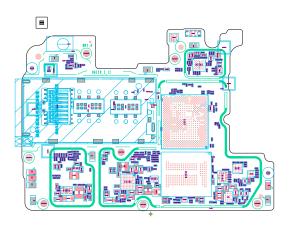
8-1. Components Layout



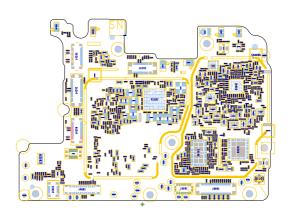






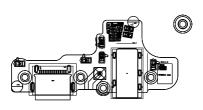


ART FILM - AA



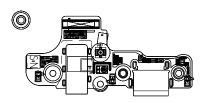
ART FILM - BB

ART FILM - 08_adt

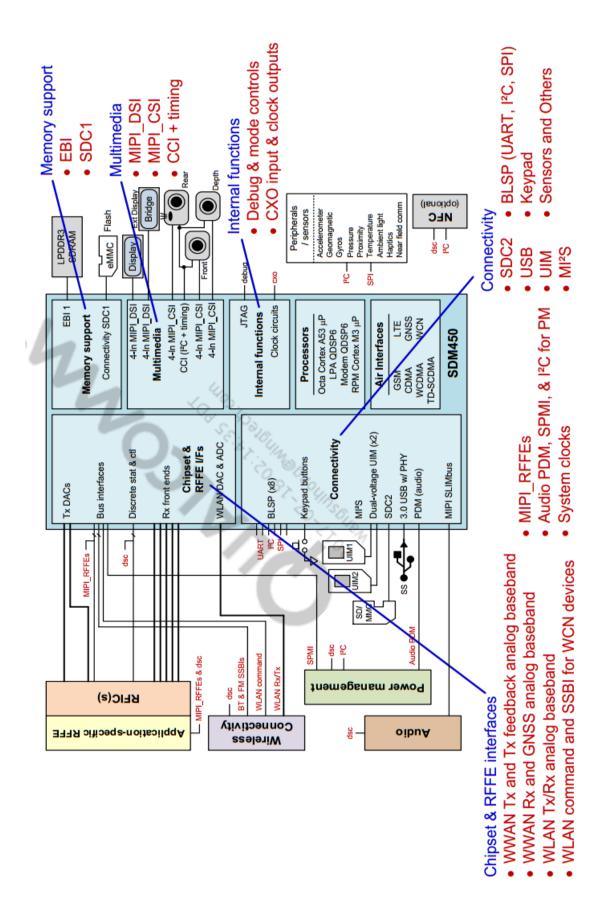


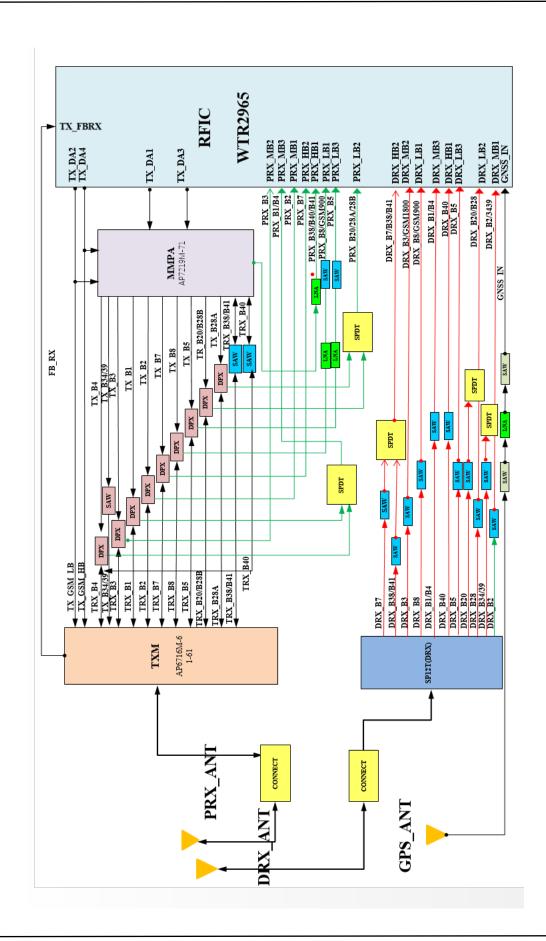
ART FILM - 08_adt

ART FILM - 09_adb



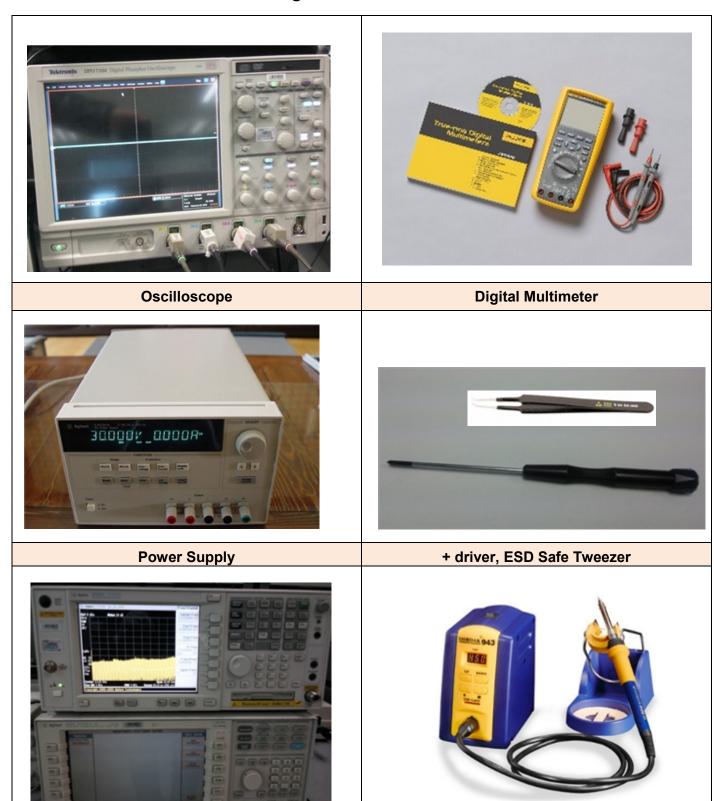
ART FILM - 09_adb





8-3. Flow chart of Troubleshooting.

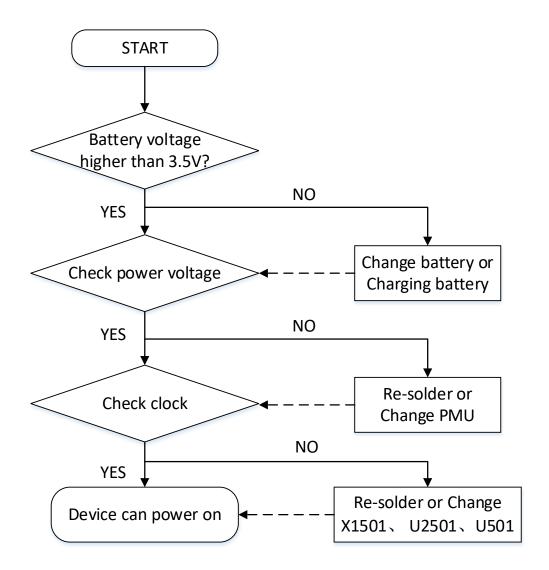
8960 & Spectrum Analyzer



Soldering iron

8-4-1. Power On

: Checking Power signal (Battery connector, PMU, Clock)



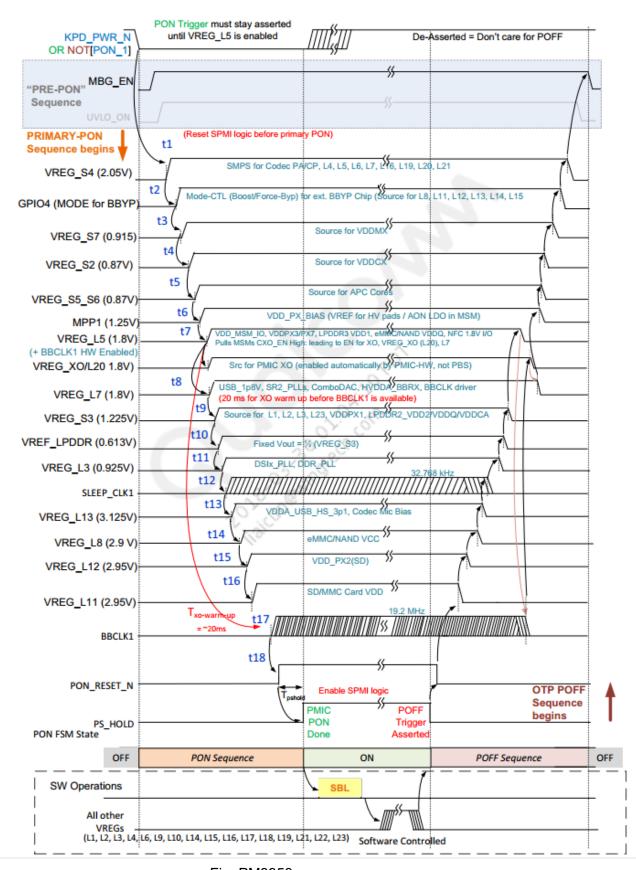
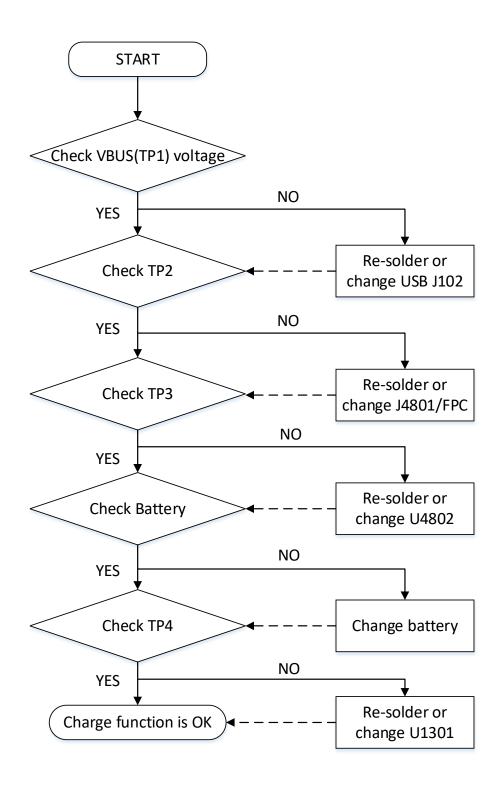


Fig. PM8953 power-on sequence

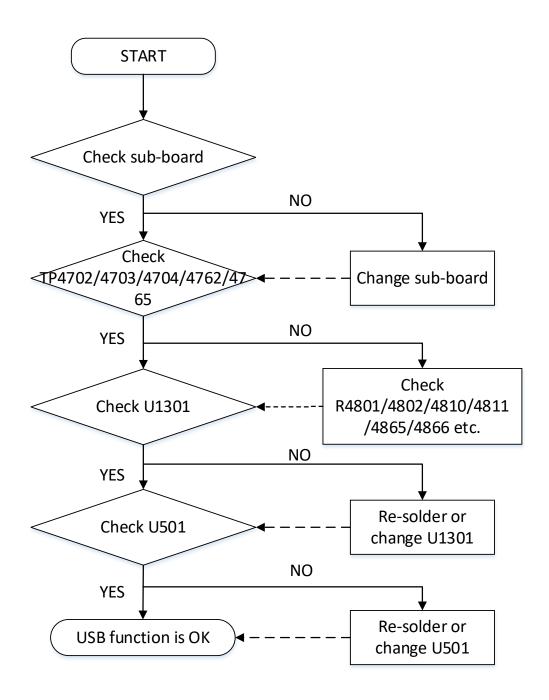
8-4-2. Charging

: The charging controlled by PMU chip PMI632 (U1301)



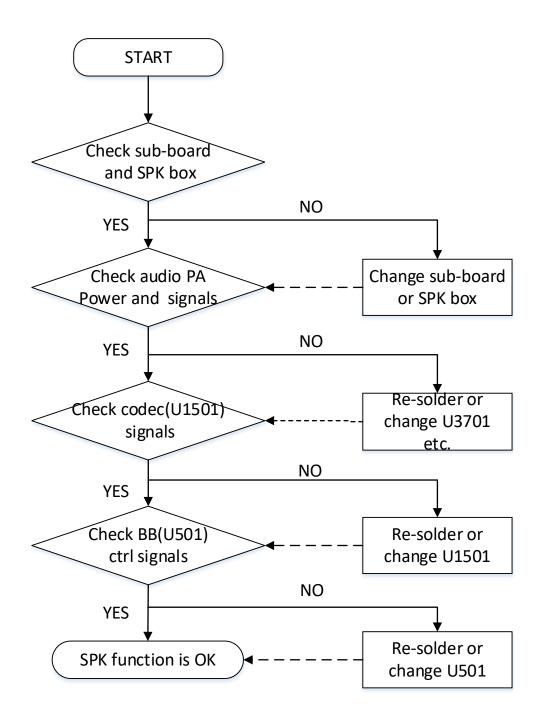
8-4-3. USB

: I/O connector is used as the USB port.



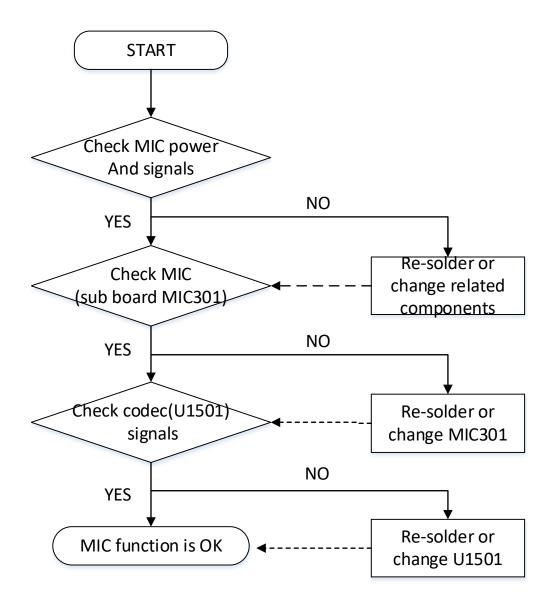
8-4-4. Audio_speaker

: The Speaker control signals are generated by BBIC SDM450(U0501) and Audio PA AW87329(U3701). The ICs and other related components should be checked.



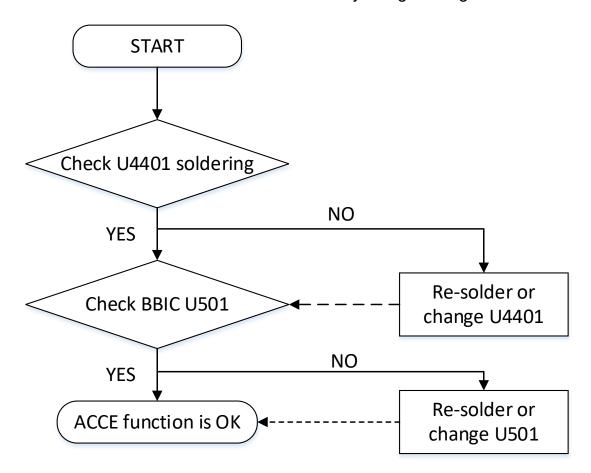
8-4-5. Audio_Main MIC

: The MIC control signals are generated by PMU chip PM8953 (U1501), the PMIC the MIC and other related components should be checked.



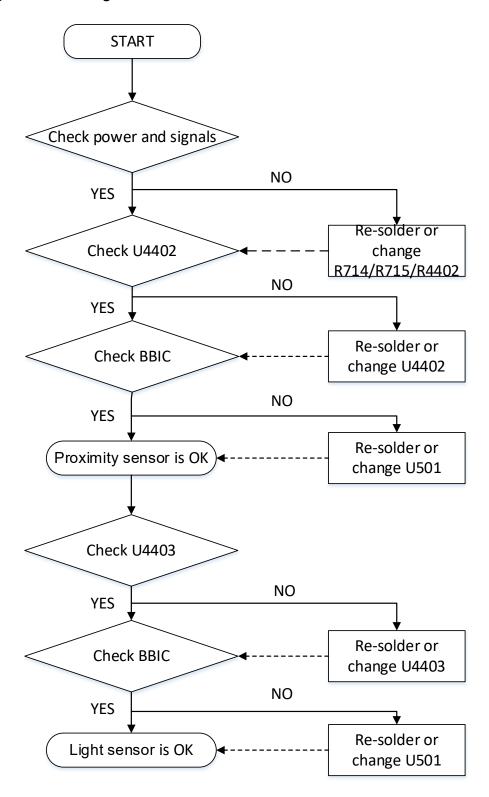
8-4-6. Accelerometer sensor

: The 3G-Accelerometer sensor is calibrated by using SW algorithm.



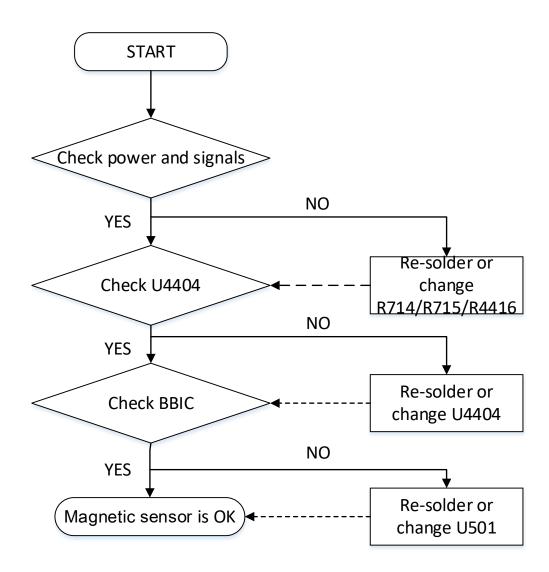
8-4-7. Proximity and light sensor

: Proximity and Light Sensor 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.



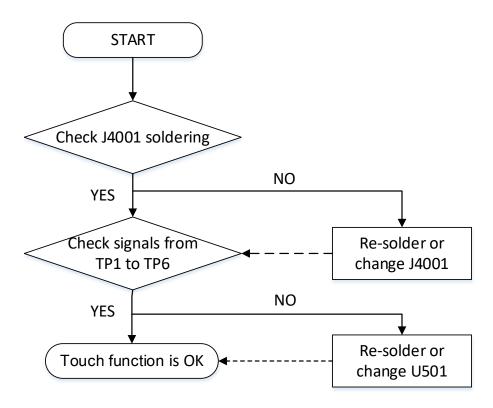
8-4-8. Magnetic Sensor

: Magnetic Sensor is usually used for compass and the control signals are generated by SDM450



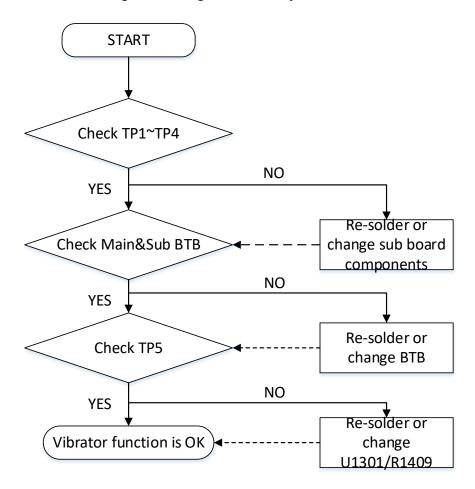
8-4-9. TOUCH SCREEN

: The Touch control signals are generated by SDM450. It is assembled with LCD.



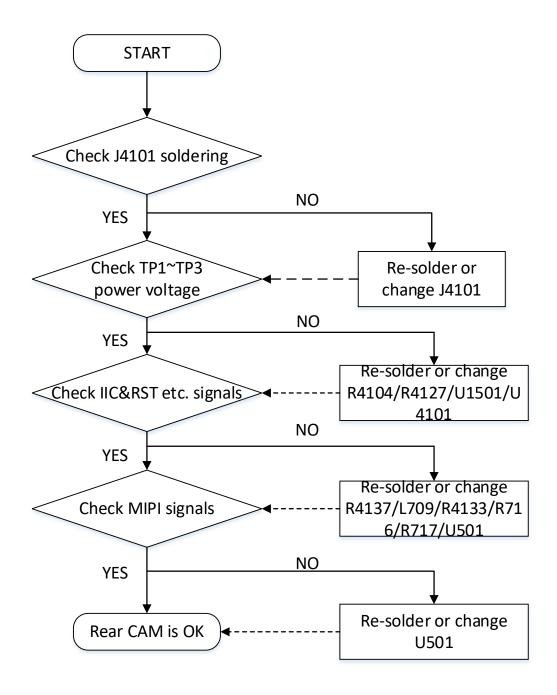
8-4-10. Vibrator

: The Vibrator control signals are generated by PMI632.



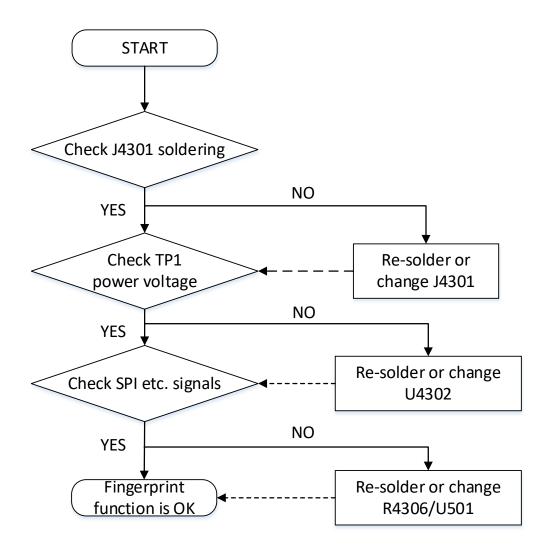
8-4-11. Rear Camera

: The camera control signals are generated by SDM450. Other cameras' analysis methods refer to the rear camera.



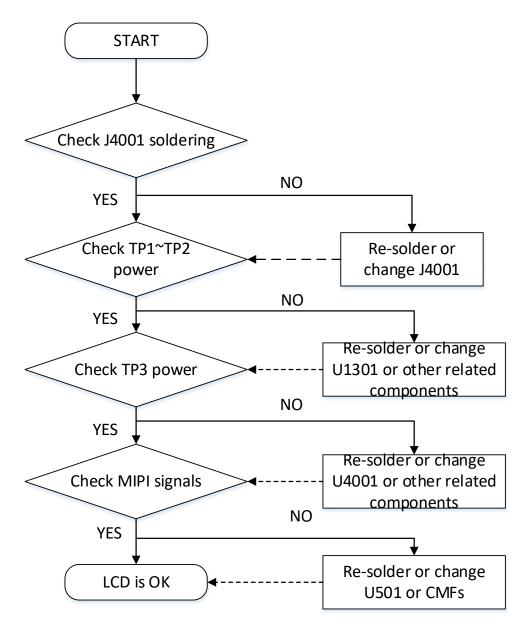
8-4-12. Fingerprint

: The Fingerprint control signals are generated by SDM450.



8-4-13. LCD

: The LCD control signals are generated by SDM450.



8-5. Service Schematics

- U501_SDM450_BB chip IC , Digital Baseband Processor(Top)

