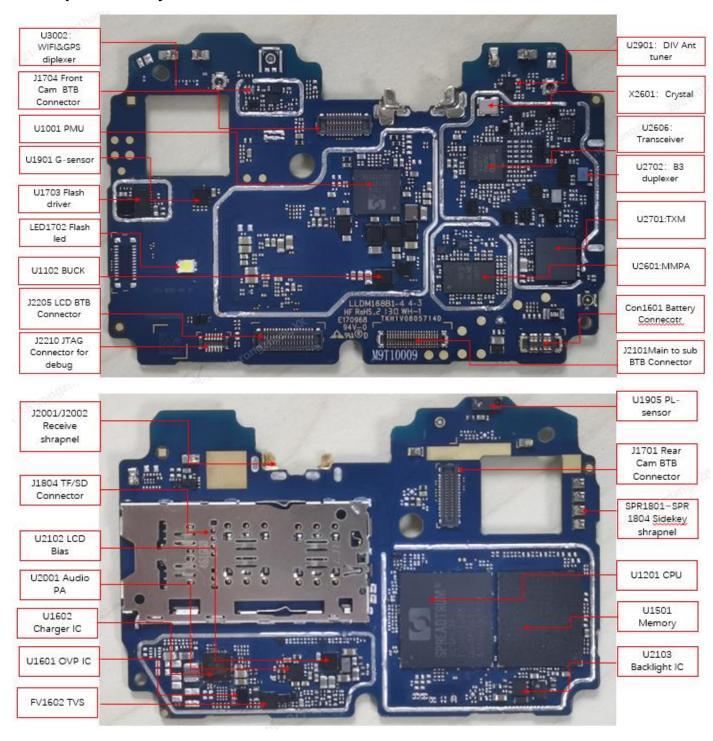
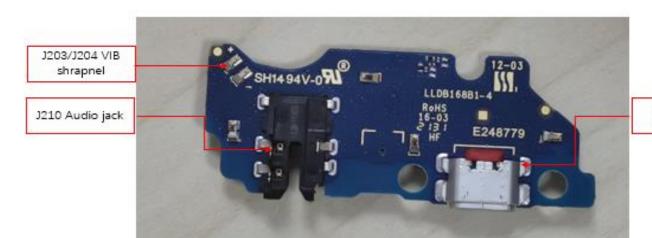
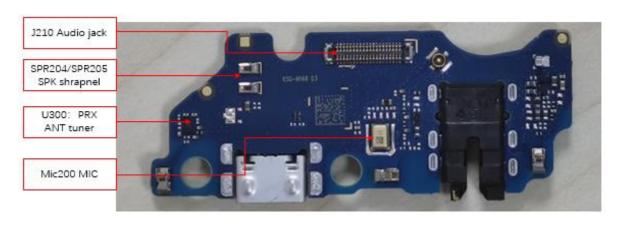
#### 8-1. Components Layout



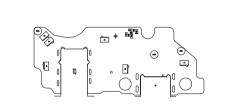


J201 USB Connector

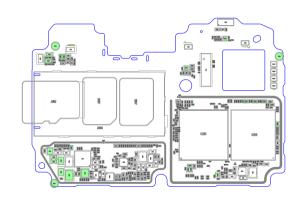


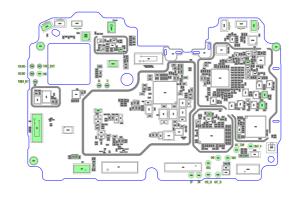
# آموزش شماتیک و نقشه خوانی iranbsm.ir

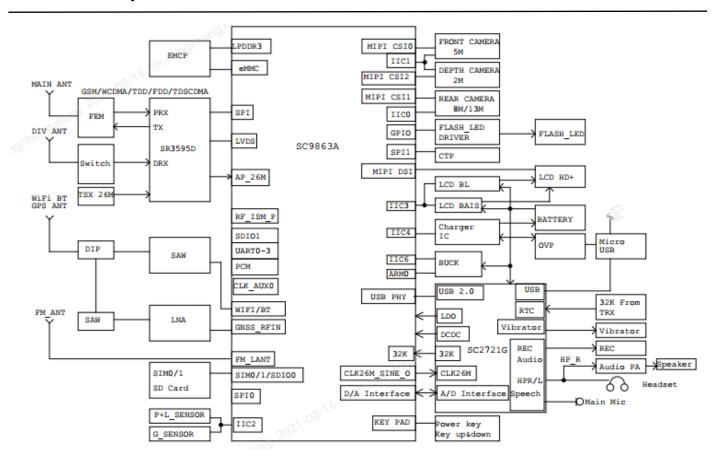
# Mobile schematic training

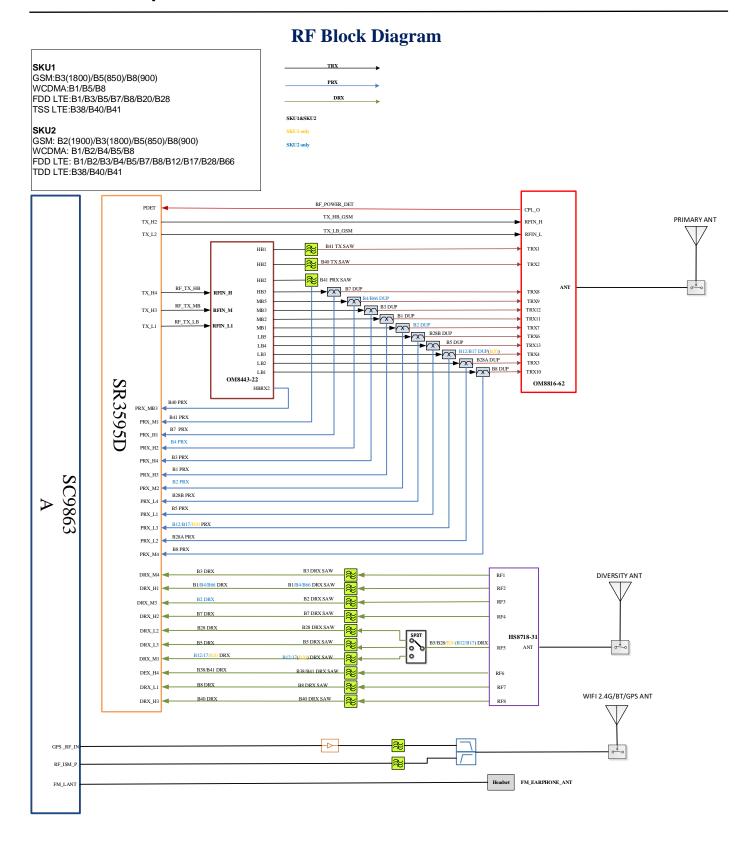




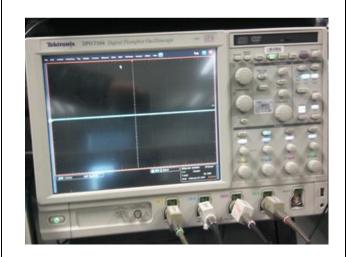








#### 8-3. Flow chart of Troubleshooting.





Oscilloscope

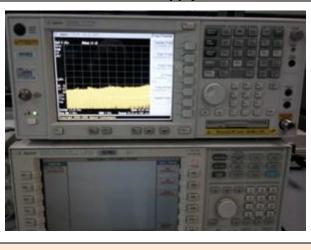


**Digital Multimeter** 





**Power Supply** 



+ driver, ESD Safe Tweezer

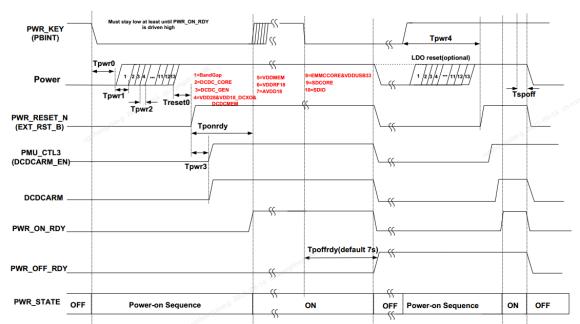


8960 & Spectrum Analyzer

Soldering iron

#### 8-3-1. Power On

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



Integrated 7s reset circuit supports below two mode by SW select

C1135

15

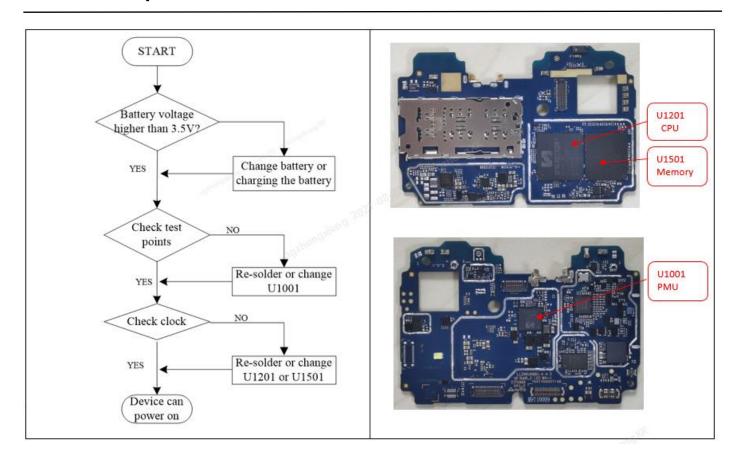
NO	Event	Volt(V)	TP
0	Tpwr0	/	NO TP
1	Tpwr1	/	NO TP
2	DCDC_CORE	0.9	C1117
3	DCDC_GEN	1.4	C1123
4	VDD2V8	2.8	C1103
5	VDD1V8_DCXO	1.85	C1108
6	VDDMEM	1.8	C1121
7	VDDRF1V8	1.85	C1128
8	AVDD1V8	1.8	C1126
9	EMMCCORE	3	C1110
10	VDDUSB33	3.3	C1330
11	SDCORE	3	C1112
12	SDIO	3	C1333
13	EXT_RST_B	1.8	TP1005
14	VDDARM EN	1.8	TP1101

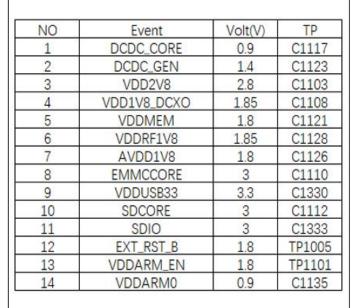
Power on sequence

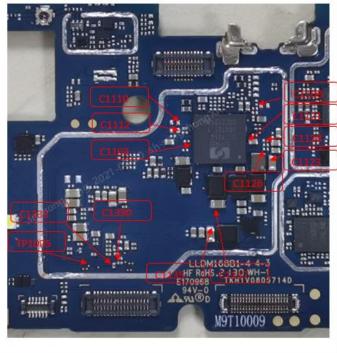
0.9

VDDARM0

<sup>-</sup>Reset PMU together -Reset ARM core only

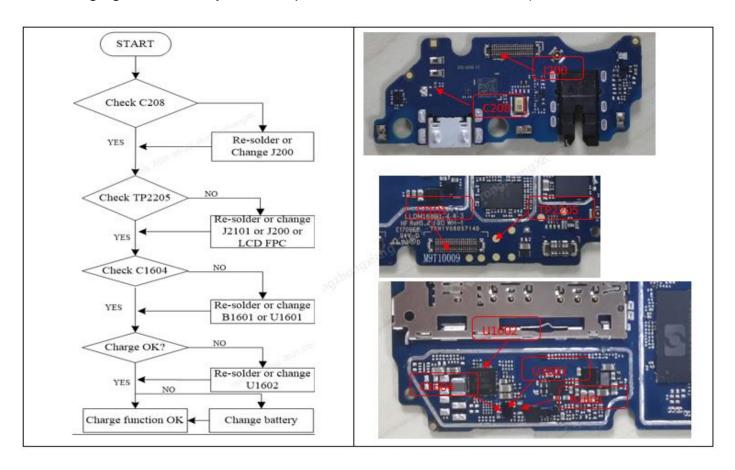






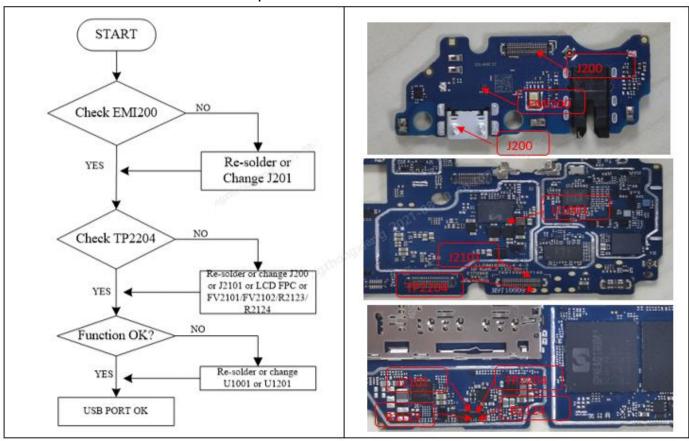
# 8-3-2. Charging

The charging controlled by PMU chip SD155 or BQ25601 (U1602).



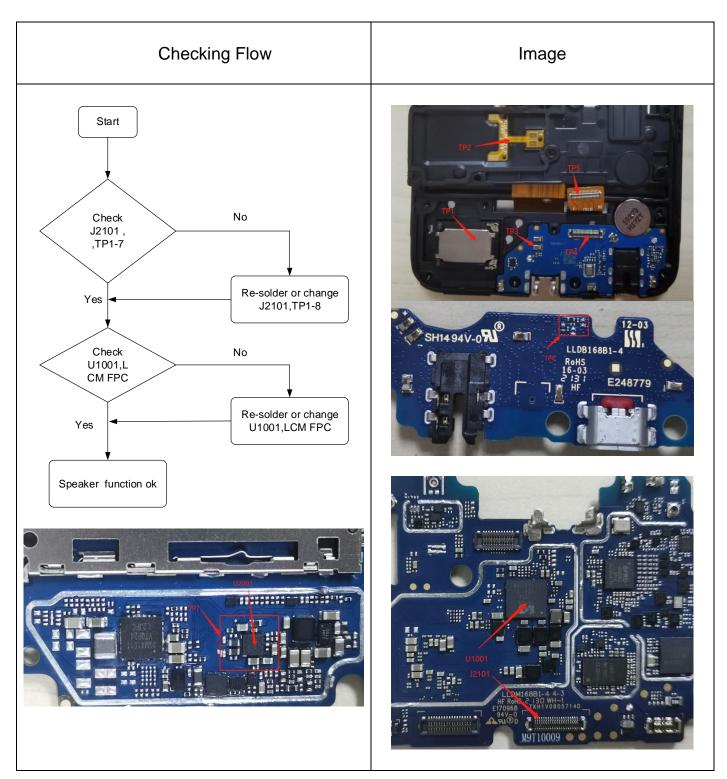
#### 8-3-3. USB

I/O connector is used as the USB port.



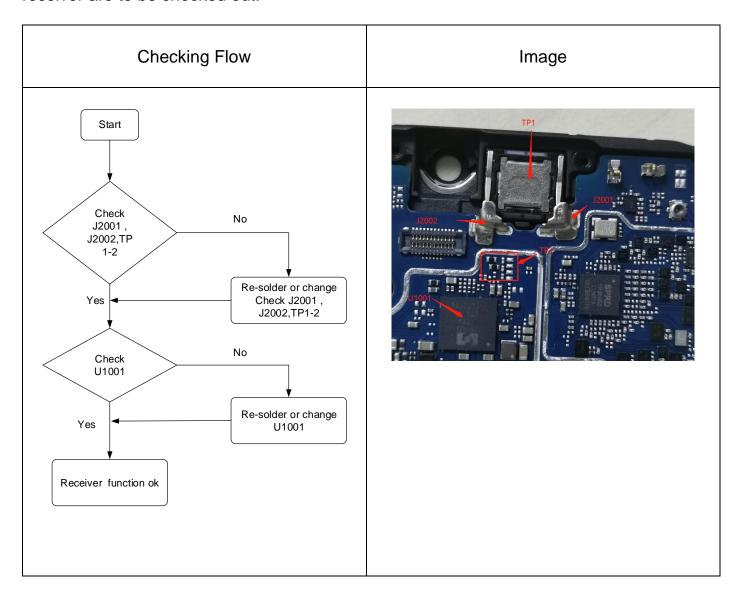
#### 8-3-4. Audio speaker

The Speaker control signals are generated by SC2721G (U1001), There is an audio PA(U2001) in the middle, the chips and the speaker are to be checked out.



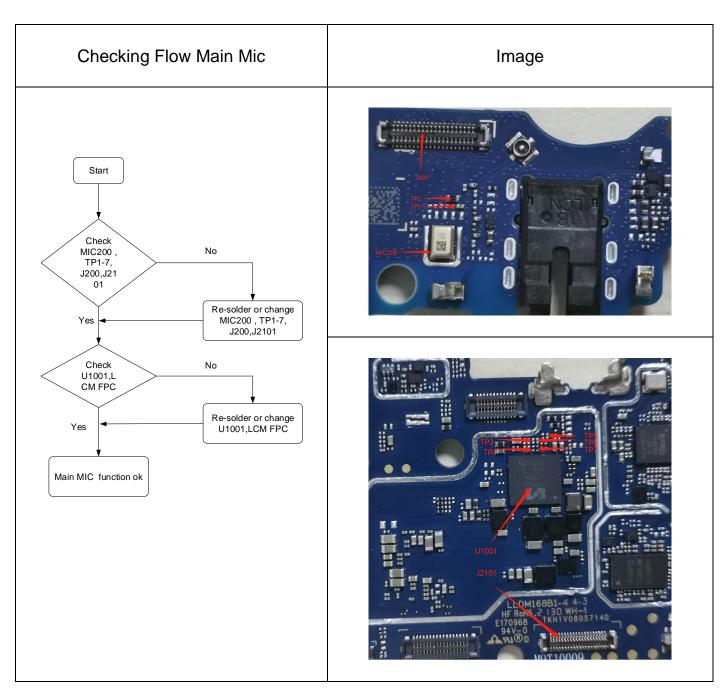
#### 8-3-5. Audio receiver

The receiver control signals are generated by SC2721G (U1001), the PMU chip and the receiver are to be checked out.



#### 8-3-6. Audio\_MIC

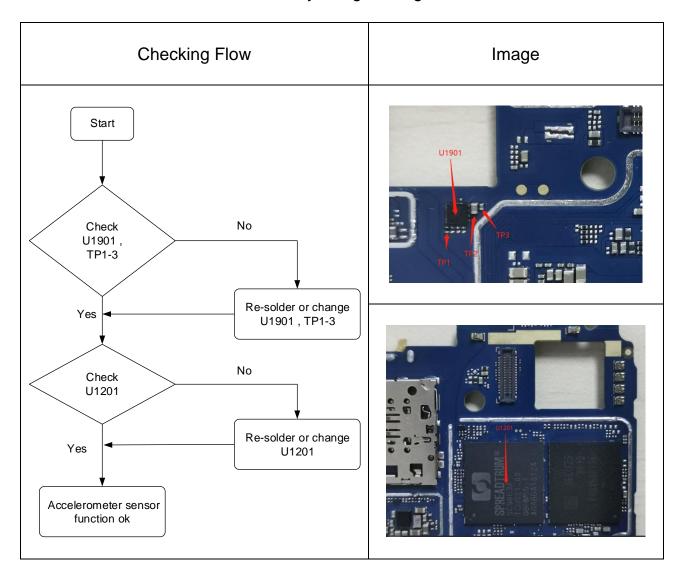
The MIC control signals are generated by SC2721G (U1001), the PMU chip and the MIC are to be checked out.



# Checking Flow Headset mic Image Start Check No J210, J200,J21 01,TP1-8 Re-solder or change J210, J200,J2101,TP1-8 Check No U1001,L CM FPC Re-solder or change Yes U1001,LCM FPC Headset MIC function

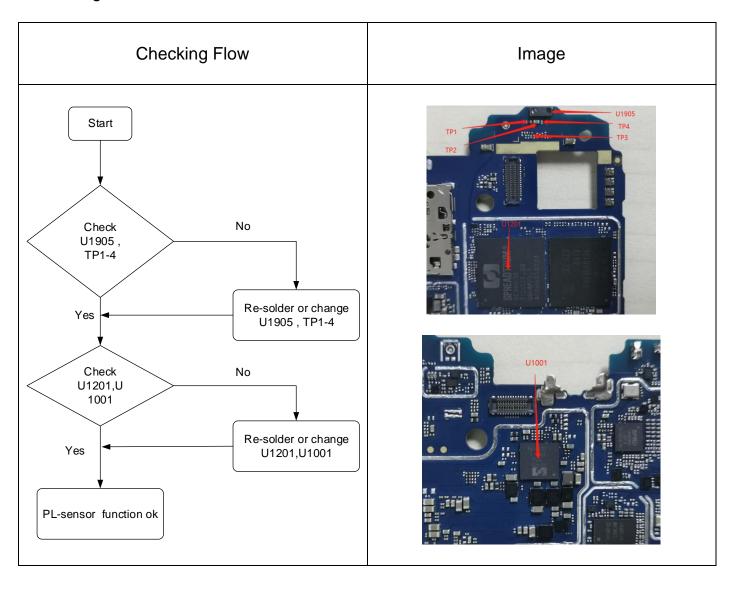
#### 8-3-7. Accelerometer sensor

The Accelerometer sensor is calibrated by using SW algorithm.



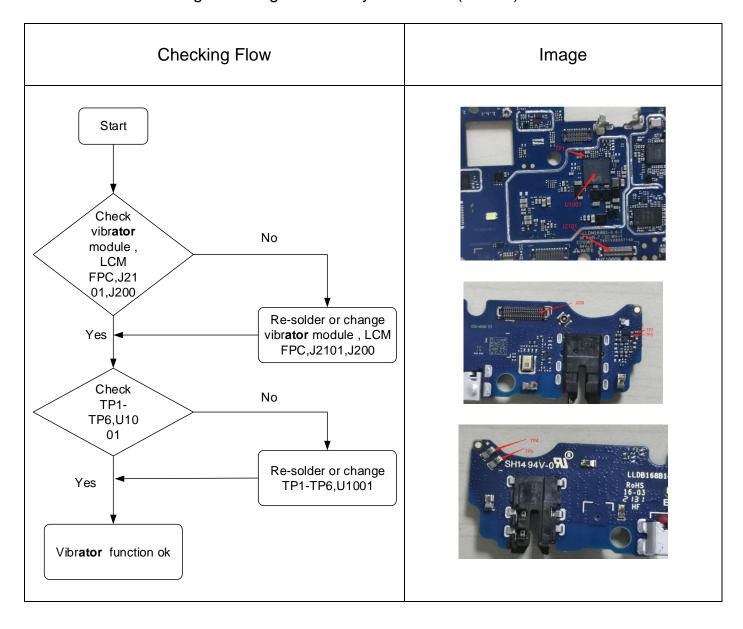
#### 8-3-8. Proximity and light sensor

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.



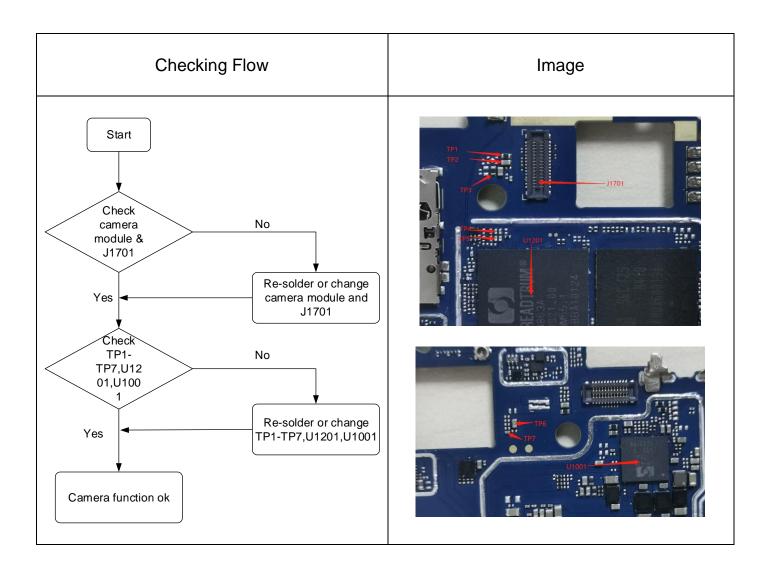
#### 8-3-9. Vibrator

The Vibrator control signals are generated by SC2721G (U1001).



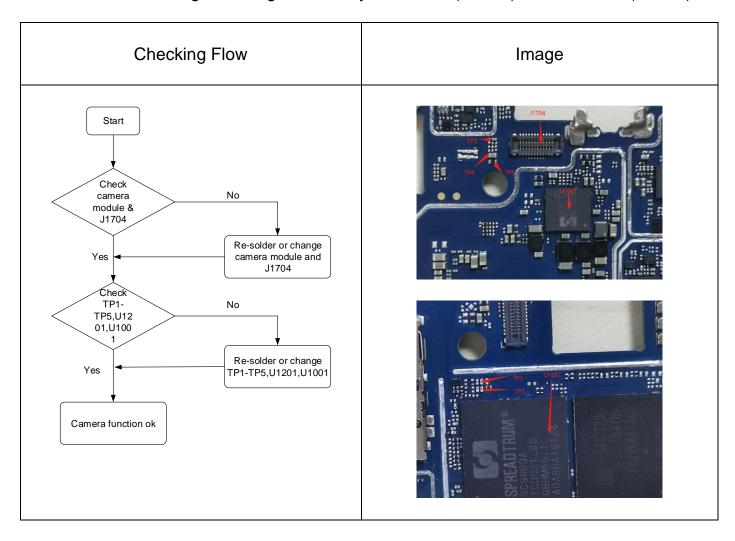
#### 8-3-10.Main Camera

The Camera control signals are generated by SC2721G (U1001) and SC9863A (U1201).

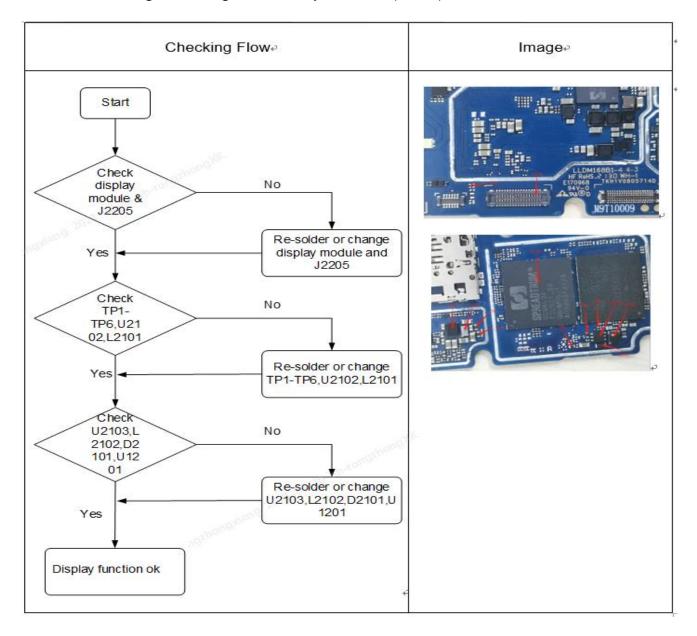


#### 8-3-13. Front Camera

The Camera control signals are generated by SC2721G (U1001) and SC9863A(U1201).



**8-3-14 LCD**The LCD control signals are generated by SM7225(U201).



#### 8-3-15 Touch

The touch control signals are generated by SC9863A(U1201). It is assembled with LCD.

