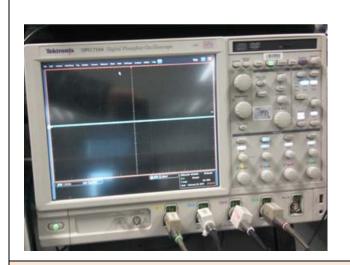


### 8-3. Flow chart of Troubleshooting.





Oscilloscope

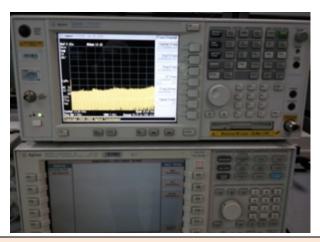
**Digital Multimeter** 





**Power Supply** 

+ driver, ESD Safe Tweezer





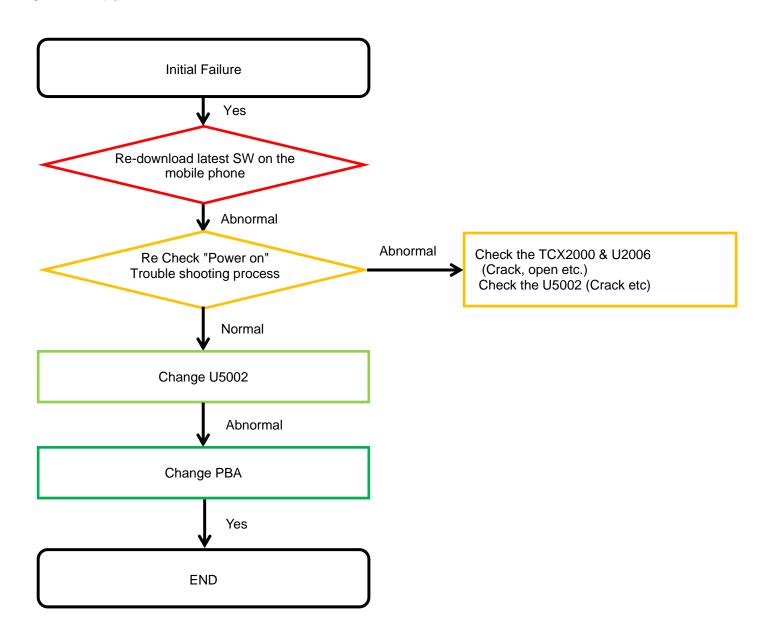
8960 & Spectrum Analyzer

Soldering iron

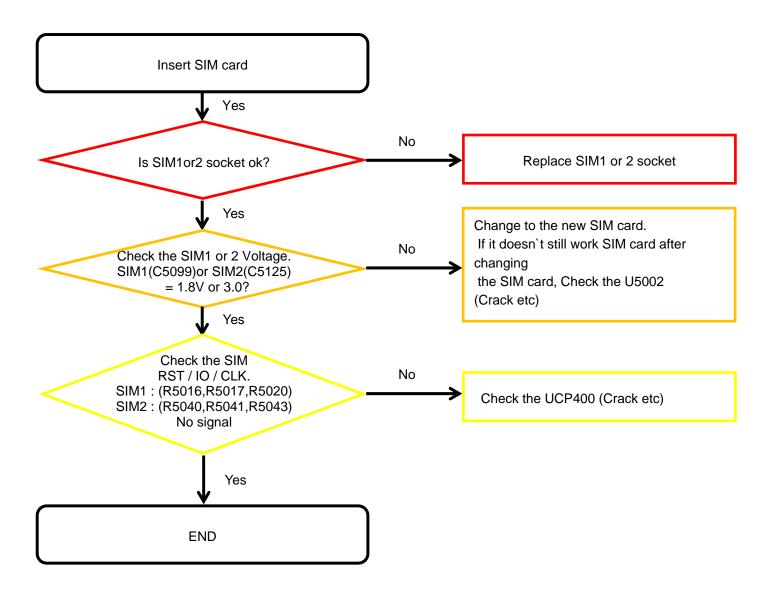
### 8-4-1. Power On Mobile phone does not power on. Yes Charging the battery by TA. No If its voltage level is extremely low Check the Battery Voltage. (under 3.0V), Is it more than 3.8V? Change the battery. Yes Power-on the phone and check Yes the power-on sound Change the FRONT-LCD ASSY or motor Vibration. Sound or Vibration is ok? No Check the voltage level at No Replace the Power key FPCB R5027 while pressing power key. Is the voltage high? Check the output voltage of U5002 Yes L5003 > 0.8V, L5004 > 0.8V, L5007 > 0.8V, L5008 > 1.35V, L5009 > 2.0V, C5000 > 0.9V, C5002> 1.8V, C5003 > 1.1V, C5004 > 1.1V, No C5005 > 1.2V, C5007 > 3.0V, C5008 > 0.8V, Check the signal of C5009 > 0.8V, C5010 > 0.8V, C5011 > 1.8V, $PMIC_PWR_HOLD = 1.8V$ C5012 > 1.2V, C5801 > 1.0V, If the output voltage is not normal, Change the U5002. Yes Each voltage level has ±10% margin. No Check the Clock TCX2000 & U2006 Replace the TCX2000 & U2006 Is the frequency 26MHz? \* Test condition (Oscilloscope setting) : 20.0us.div (time division) Yes Check the initial operation Yes

**END** 

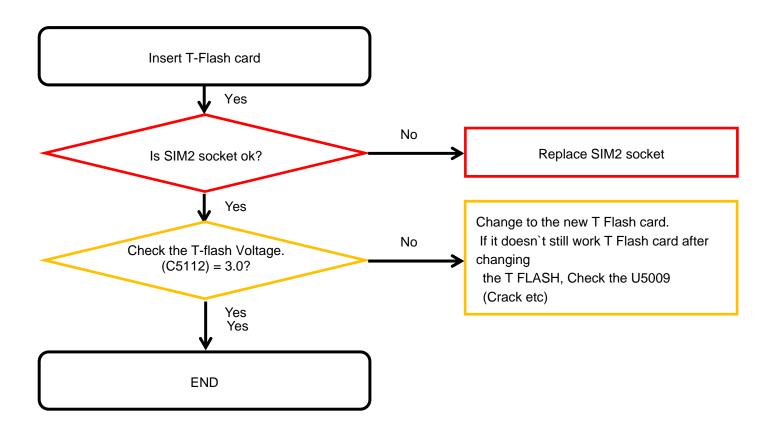
#### 8-4-2. Initial



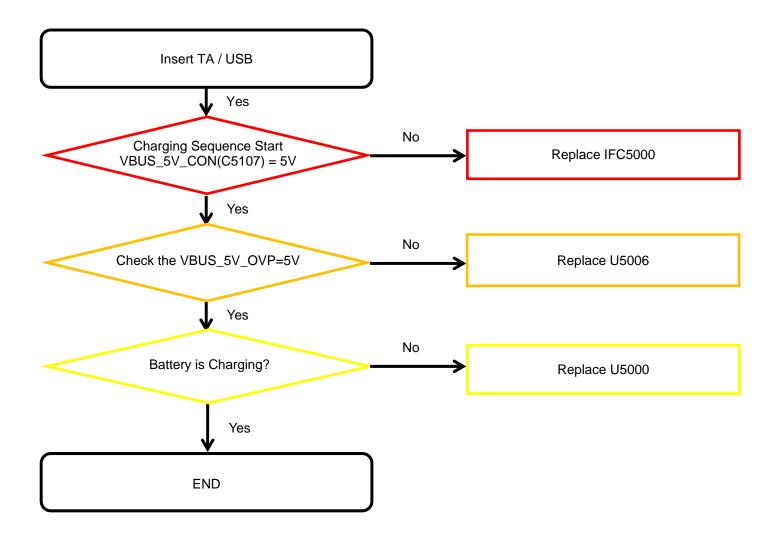
#### 8-4-3. SIM Part



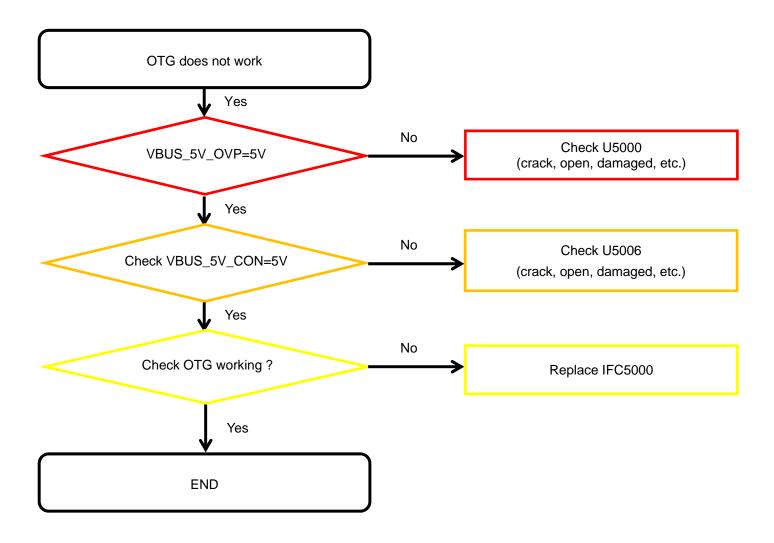
#### 8-4-4. T-Flash Part



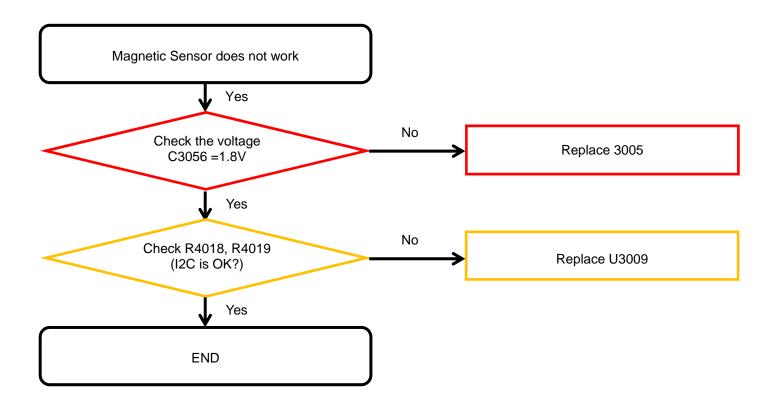
### 8-4-5. Charging Part



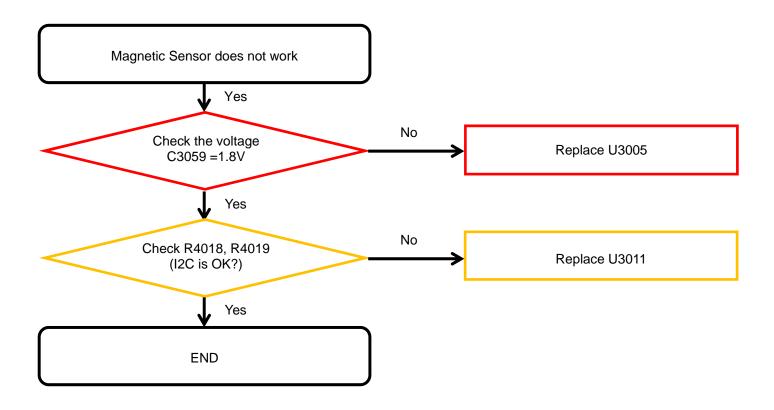
#### 8-4-6. OTG



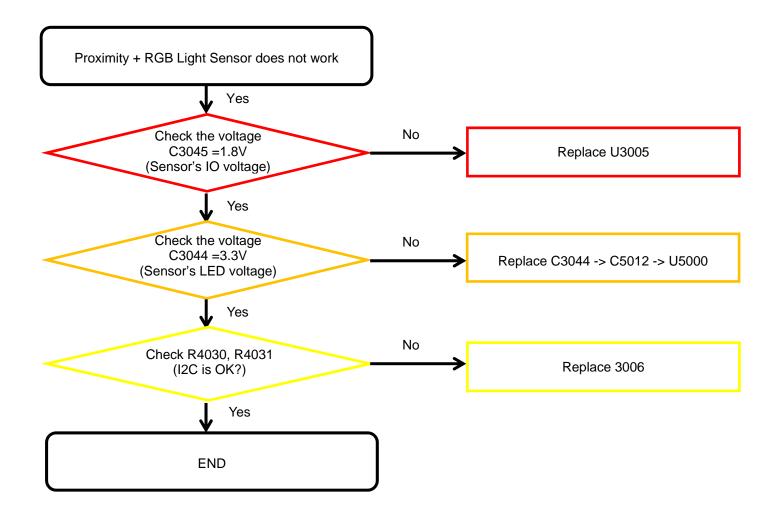
### 8-4-7-1. Magnetic Sensor



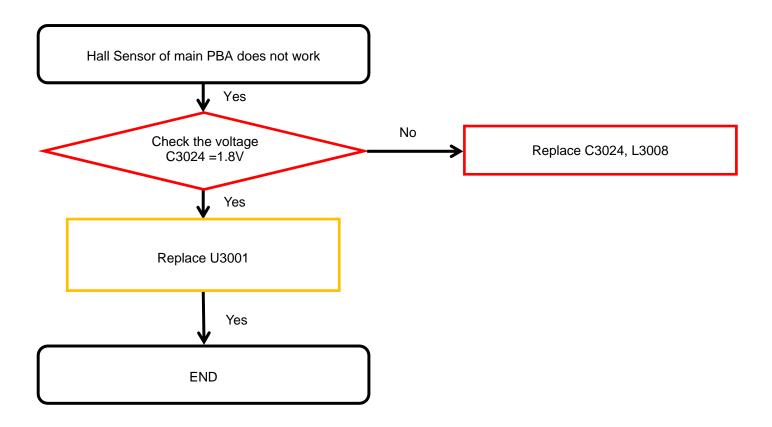
#### 8-4-7-2. Accel & GYRO Sensor



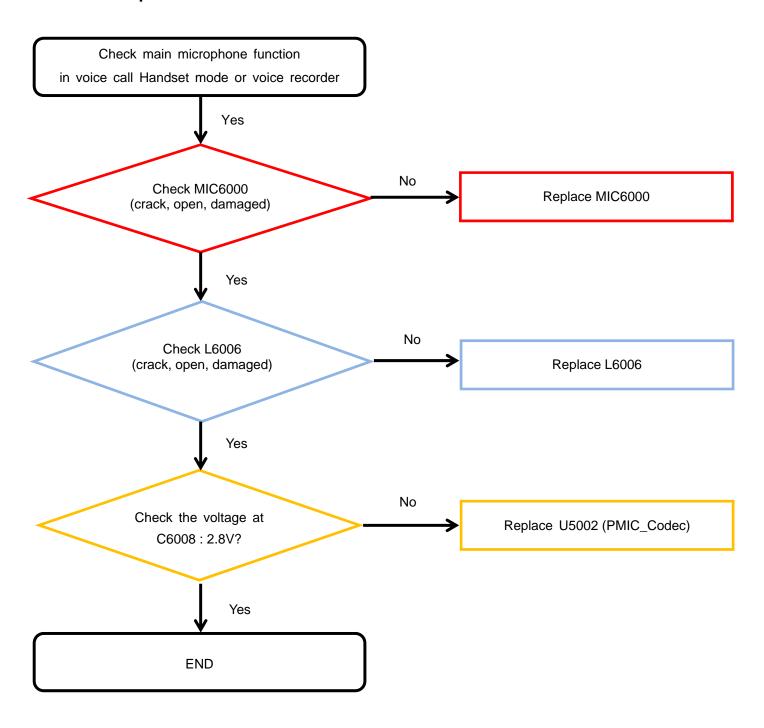
### 8-4-7-3. Proximity + RGB Light sensor



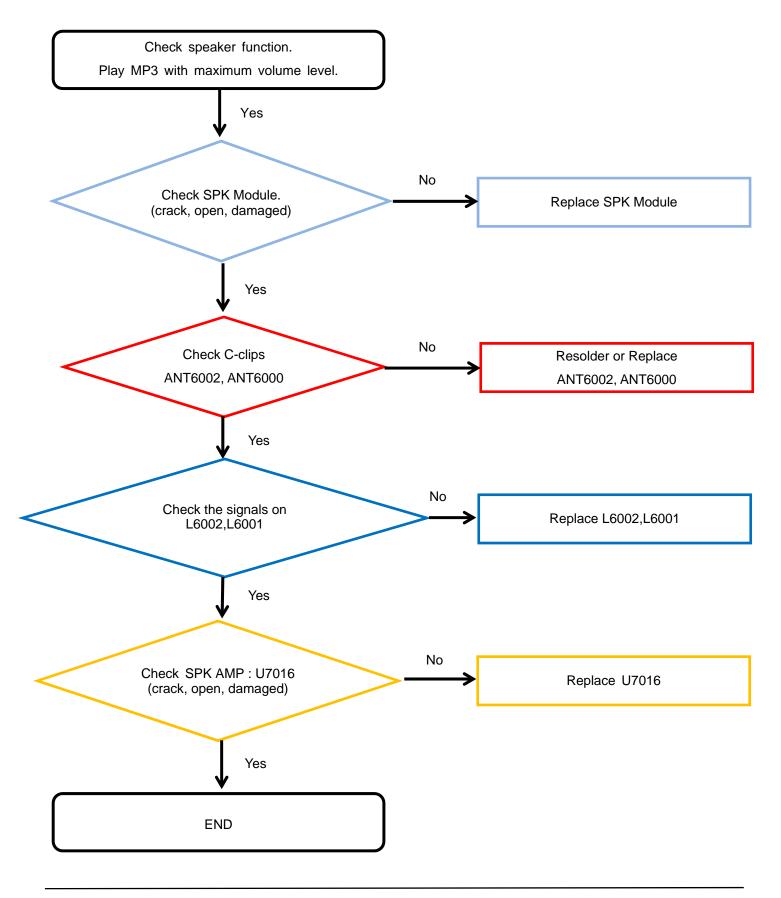
#### 8-4-7-4. Hall Sensor



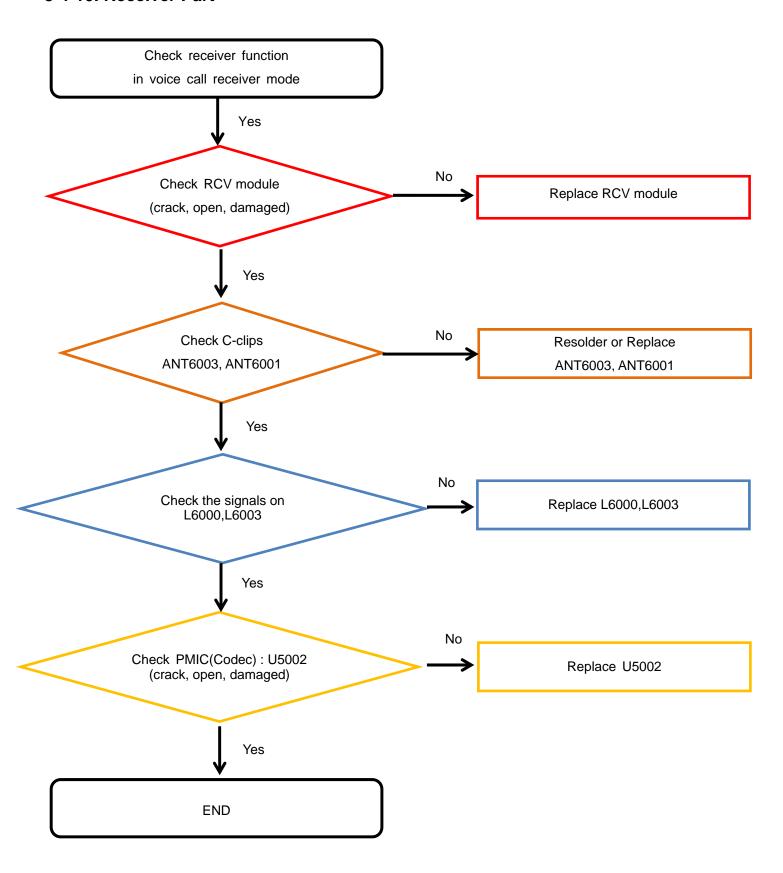
### 8-4-8-1. Microphone Part - Main MIC



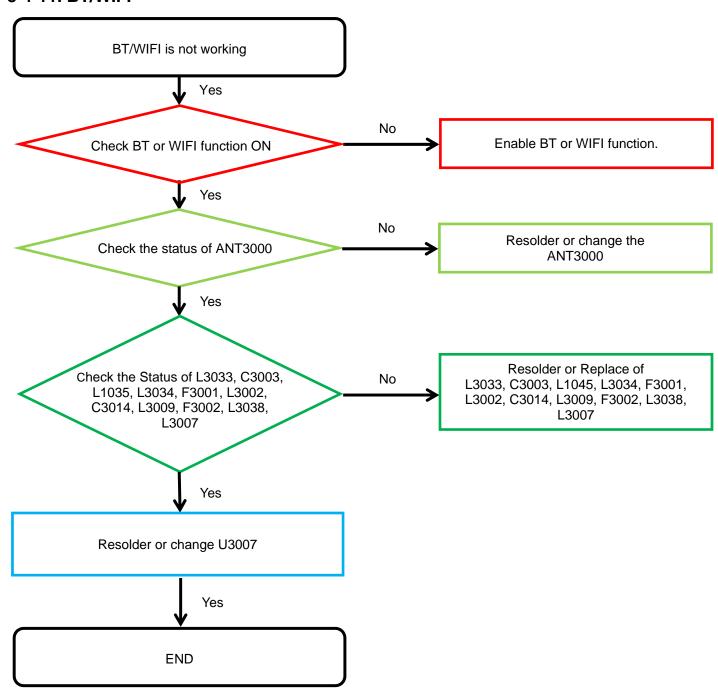
#### 8-4-9. Speaker Part



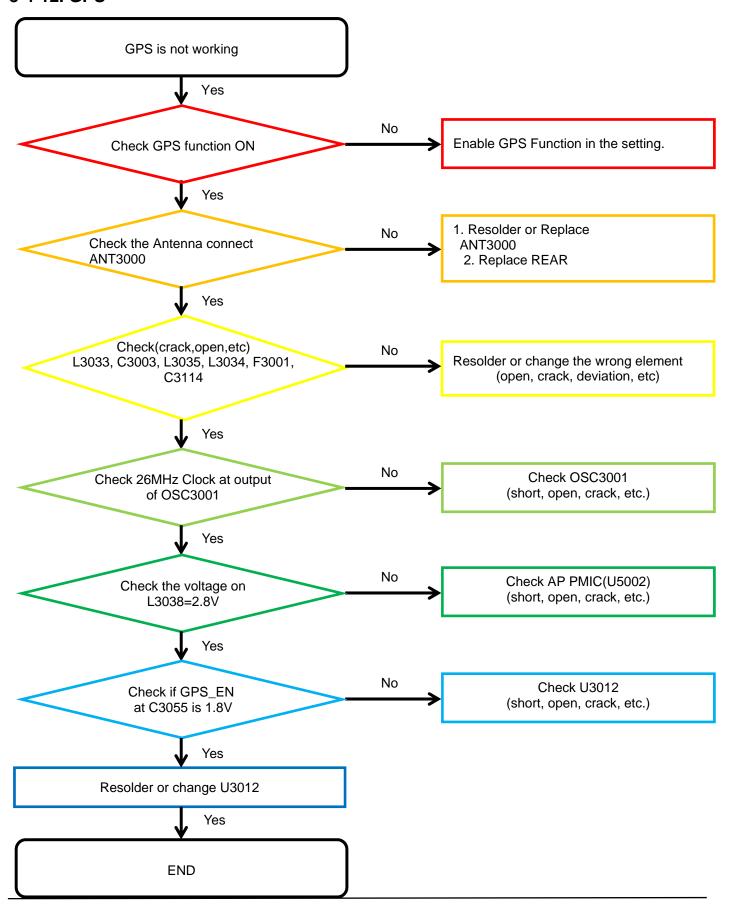
#### 8-4-10. Receiver Part



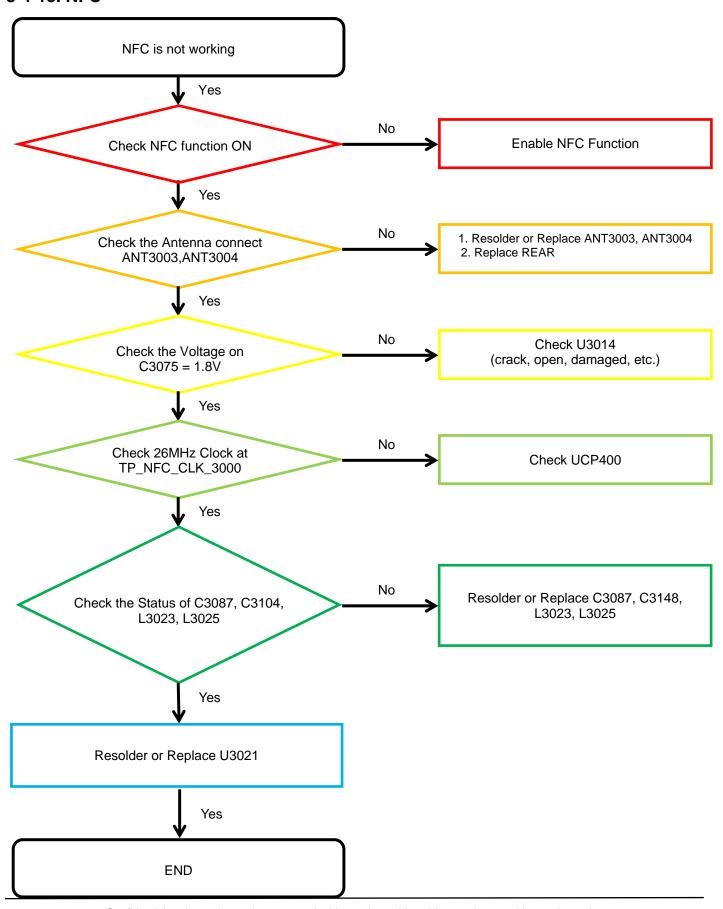
#### 8-4-11. BT/WIFI



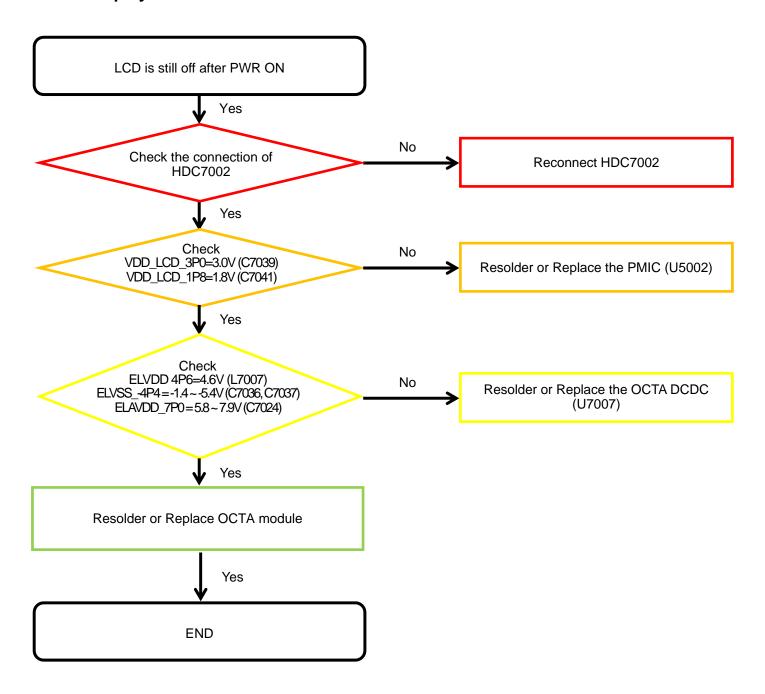
#### 8-4-12. GPS



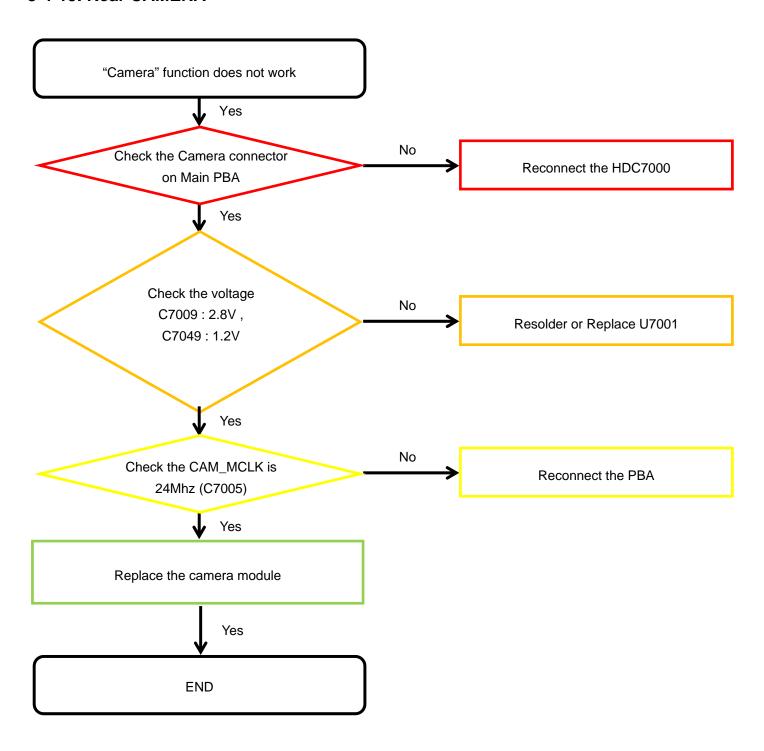
#### 8-4-13. NFC



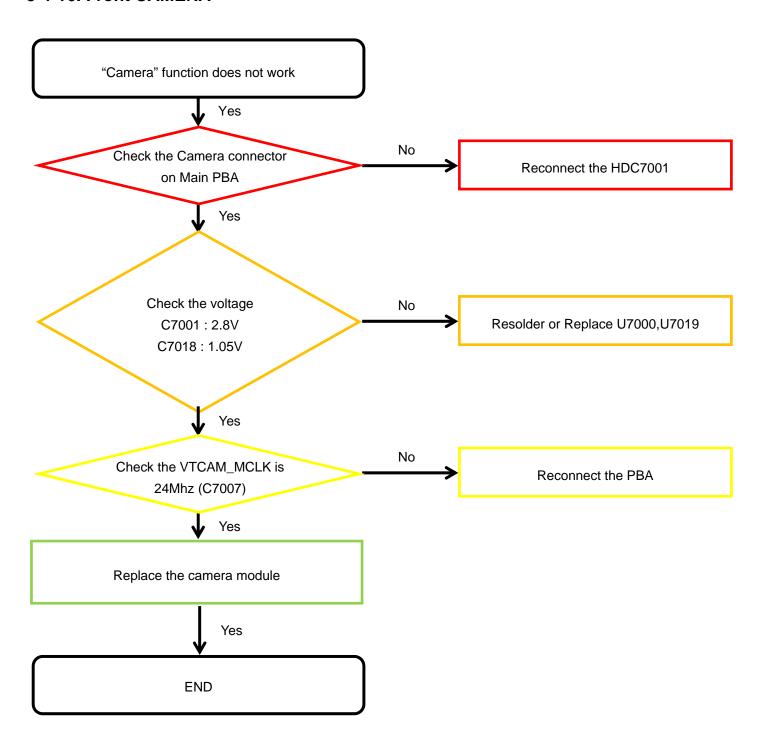
### 8-4-14. Display



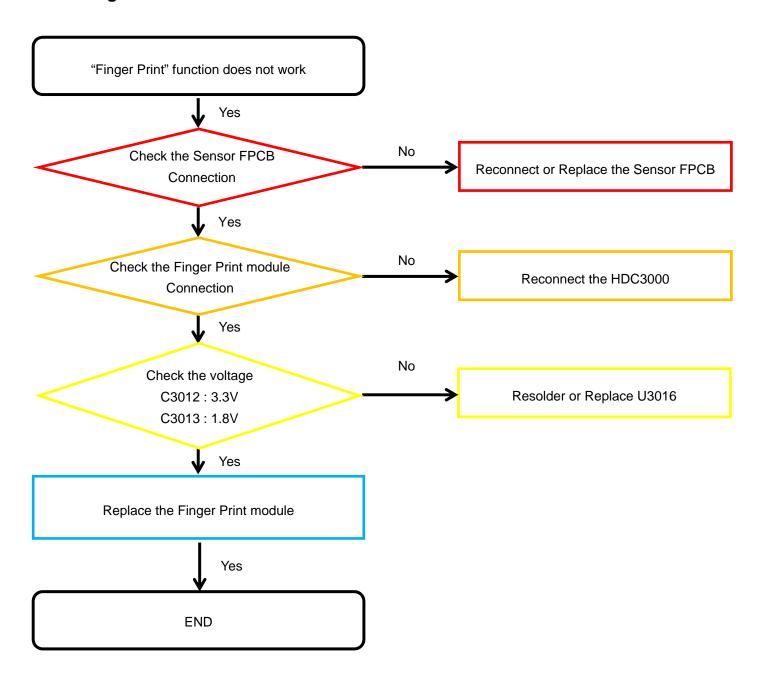
#### 8-4-15. Rear CAMERA



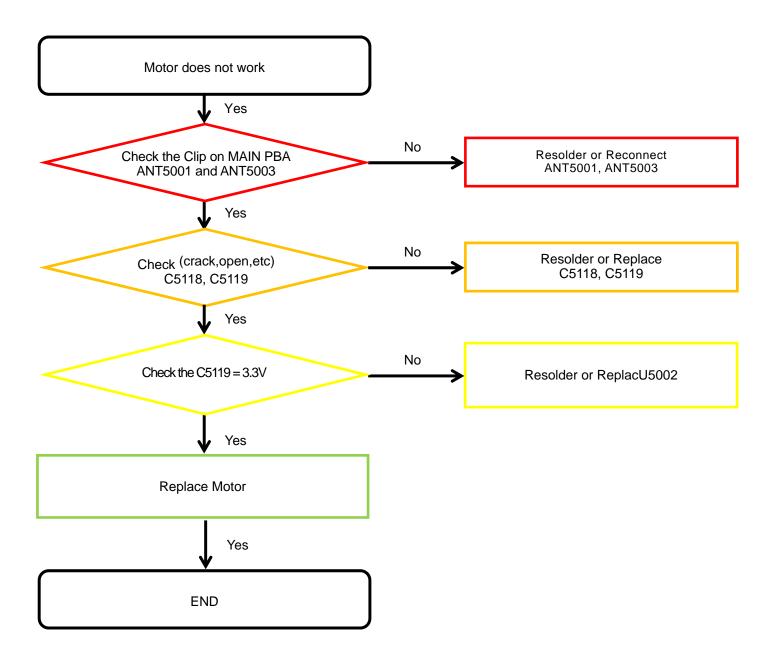
#### 8-4-16. Front CAMERA



### 8-4-17.Finger Print



#### 8-4-18. Motor



### 8-4-19. MST [SM-J730FM/GM]

