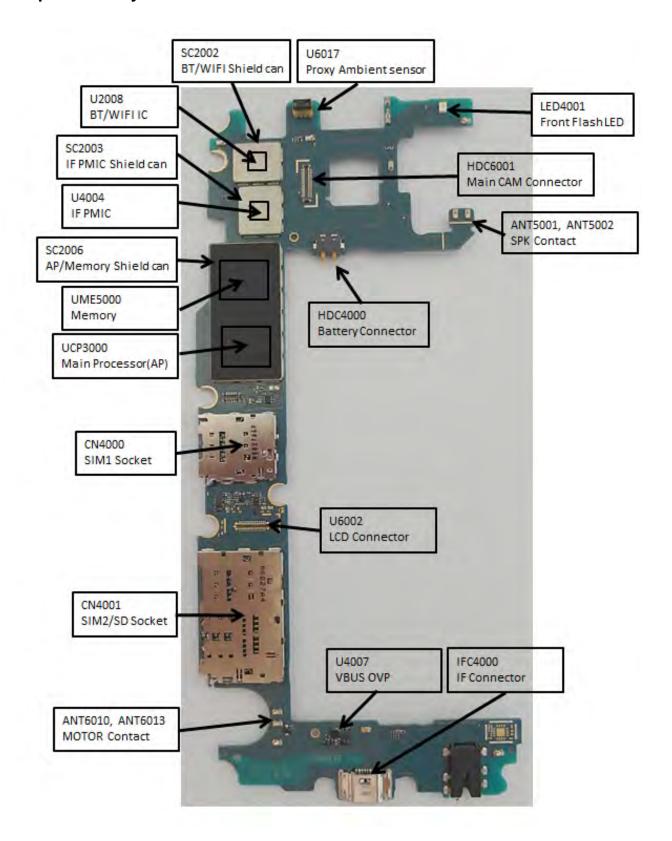
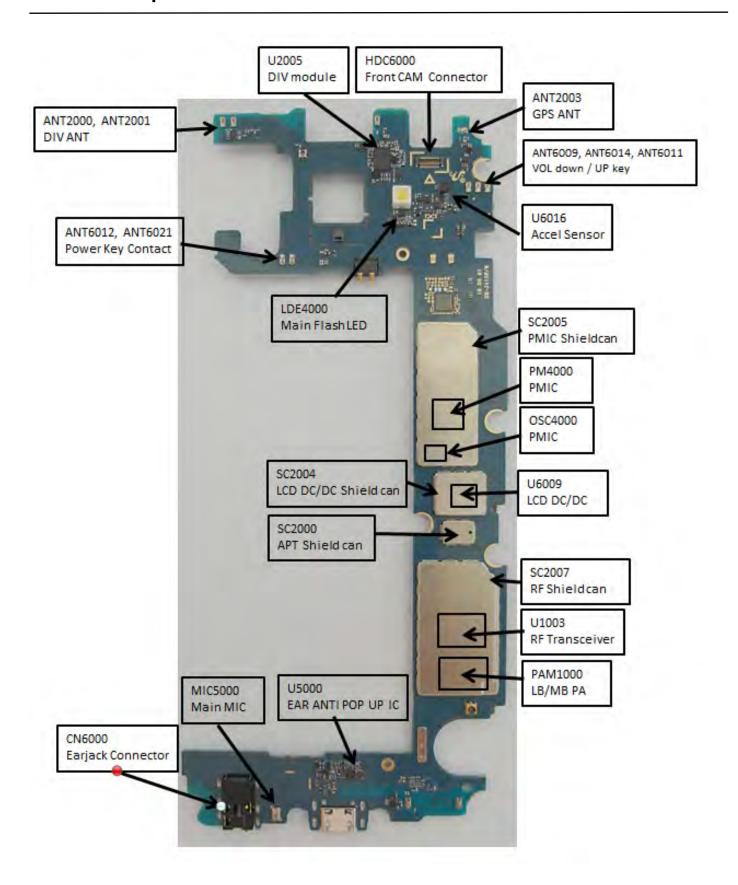
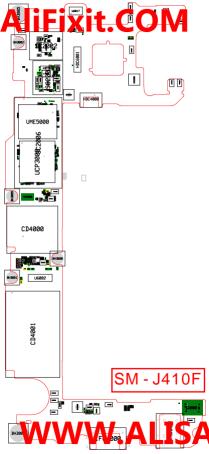
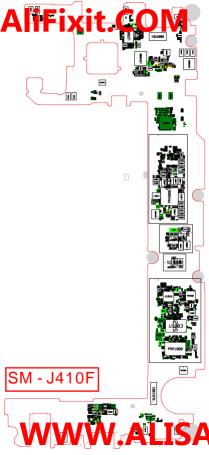
## 8-1. Components Layout

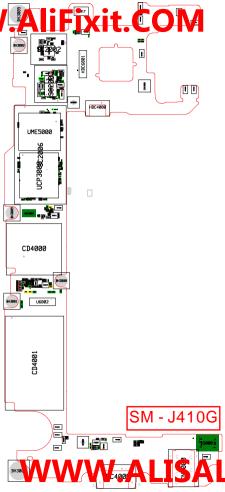


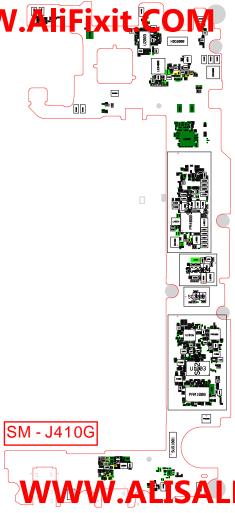


#### SM - J410F/G t.COM **SM-J410x Block Diagram H/W REV: 0.2B** Common **▼** Main ANT ACC\_INT Switch MB PRX B1\_4\_66 **Accel Sensor** PRX B12\_13 17\_20\_28 CPL PRX B12\_17 SENSOR 12C LIS2DS12TR Switch LB **PROXY AMBIENT** PROXY\_INT **SENSOR** SENSOR\_I2C CM36686M3OI GPS1/Q **Femid** RCAM AF 12C PRX I / Q LB/HB RCAM I2C 8M **Transceiver** RCAM\_MIPI\_D(0:3)\_P/N 23) Main TXI/Q RCAM\_MIPI\_CLK\_P/N CAM RCAM\_RST E5\_CLK / DATA PAT APT **QFE2101** VR НВ РА FCAM MIPI D(0:1) P/N FCAM\_MIPI\_CLK\_P/N 5MP FCAM I2C **SUB ANT Front** FCAM\_RST\_N RF Port **CAM** FCAM\_MCLK DRX B5\_8\_12\_13 17\_20\_28\_GSMLB **DIV Module** DRX LB DRX B1\_4\_66 (SKY13745-21) MIPI\_DSI0\_DATA(0:3)\_P/M DRX B2\_3\_GSMHB LCD\_BC\_CTRL 6.0" HD+ INCELL TFT LCD MIPI\_DS0\_RESET\_N S6D7AT0 LCD\_GPIO0 TSP\_INT TSP I2C **GPS ANT** AP+CP MSM8917-9 LED\_K1/2 LCD\_BL\_I2C LCD BL IC LCD\_BLIC\_ON LÇQ\_PWM\_CON FM ANT BT/WIFI ANT PANEL EN P/N LED A 20V FM\_SDI / SSBI (EARJACK) BT/WIFI/FM WLAN I / Q WCN3615 WIAN DATA / CI USB DP/DM USB AP D P/N VBAT SENSE N/P UART\_RXD/TXD BAT CON FS\_SENSE\_N/P IF\_PMIC\_I2C IF\_PMIC\_INT/MRSTB **IF PMIC** USB\_DM/DP/ID FG\_I2C IF CON S2MU005X03-6030 VBUS 5V FG\_ALERT E/P ANTI EAR\_SWITCH EAR\_DETECT\_EARLEFT/GND/MI **POP UP IC** EAR\_3.5\_DET CAM\_FLASH\_EN FLED1 FLED2 ADC\_3.5 CAM TORCH EN **HEAD SET** EAR BATT\_UIM\_ALARM EMMC\_DATA(0:7) EMMC\_CLK / CMD VREF\_DAC HPH REF EMMC\_RCLK **MEMORY** BB\_CLK1\_MSM\_EN EARSPK L/R MSM\_RESOUT\_N [16GB eMMC & BB\_CLK1\_MSM LPDDR3 CKP / CKM / CKE(0:1) / CS(0:1) / CA(0:9) 1GB LPDDR3] SLEEP\_CLK KMFE60012M-B214 MAIN\_MIC\_P/M LPDDR3\_DM(0:3) / DQSM(0:3) / DQSP(0:3) MSM\_RESIN\_N LPDDR3\_DQ(0:31) MSM\_PS\_HOLD PMIC\_SPMI\_DATA / CLK UIM1\_DATA/RST/CLK VREF\_LPDDR3 SIM1 UIM1\_DET VSENSE\_VREG\_S1/2 **PMIC AP Thermistor** VSENSE\_VREG\_S5\_S6 THERM\_SEL UIM2\_DATA/RST/CLK PDM\_CLK/SYNC/TX AP\_MAIN\_THERM T\_FLASH\_D(0:3)/CMD/CLK PDM\_RX(0:2) SIM2/SD **MAIN Thermistor** T FLASH DET UIM2\_DET **PA Thermistor** PHONE\_ON\_N PWR KEY MOTOR\_EN MOTOR AP7340D-33 VOL\_UP VOL\_UP VOL\_DN **WWW.ALISAL ER.CON**





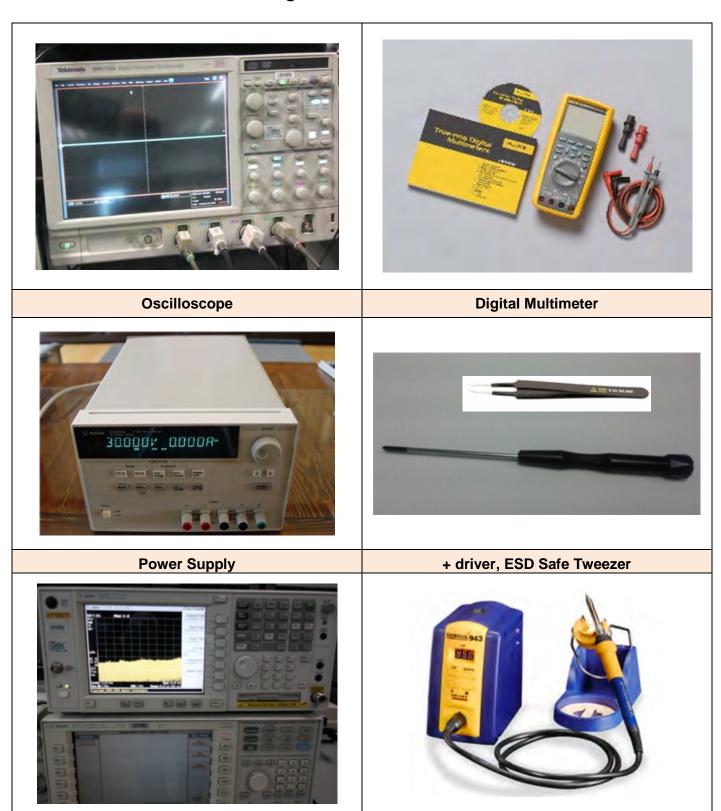




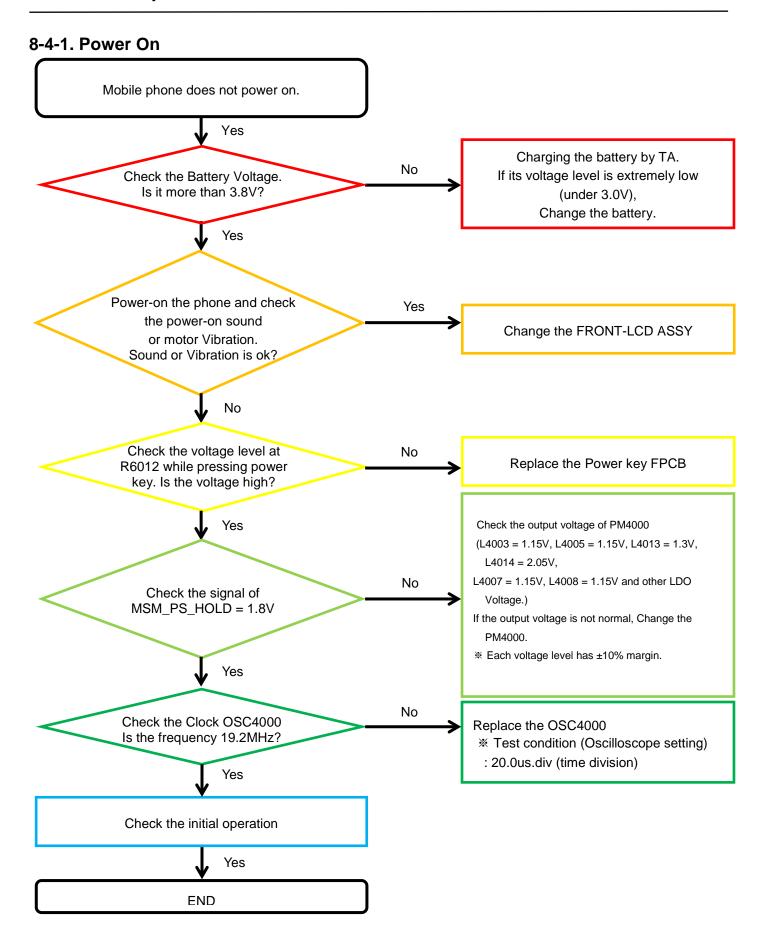
Soldering iron

# 8. Level 3 Repair

# 8-3. Flow chart of Troubleshooting.

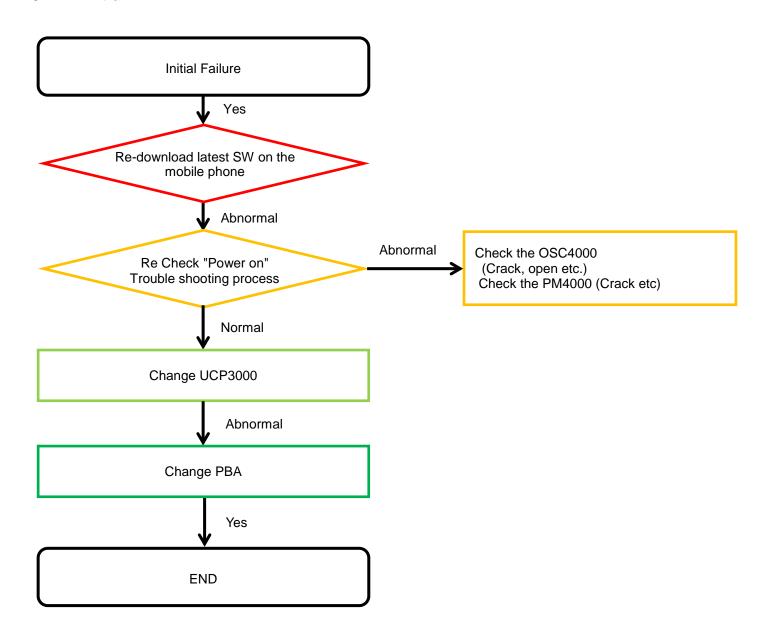


8960 & Spectrum Analyzer

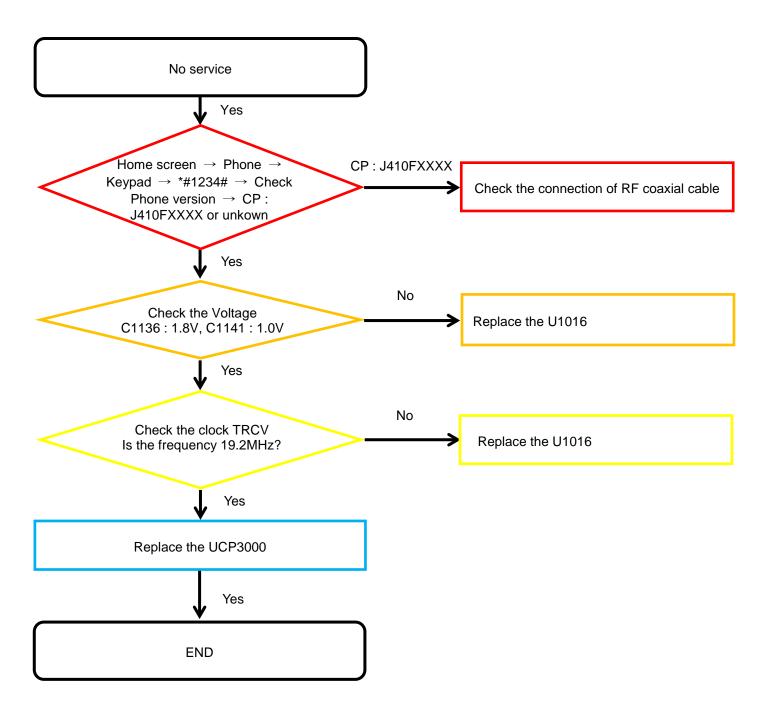


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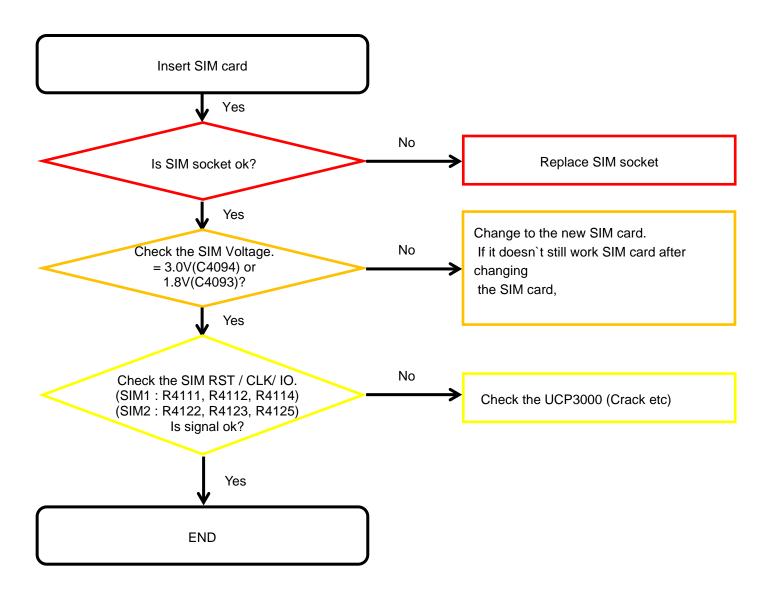
### 8-4-2. Initial



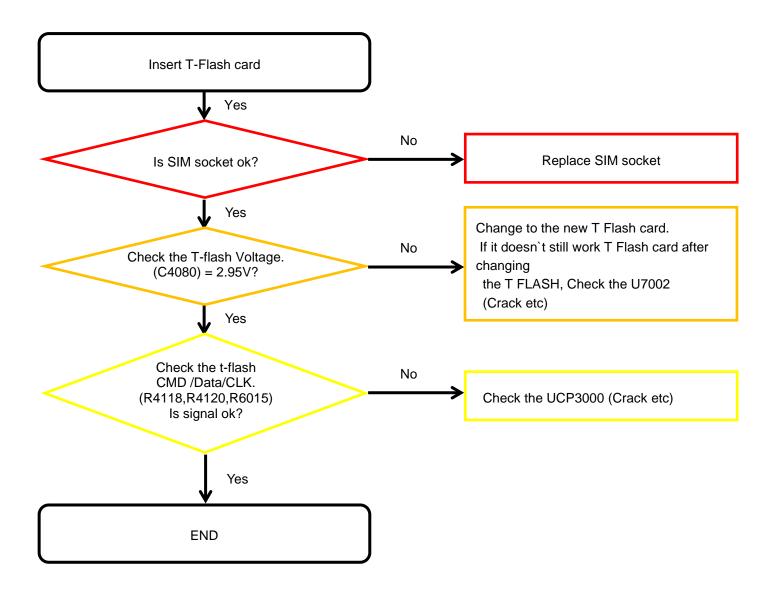
### 8-4-3. No Service



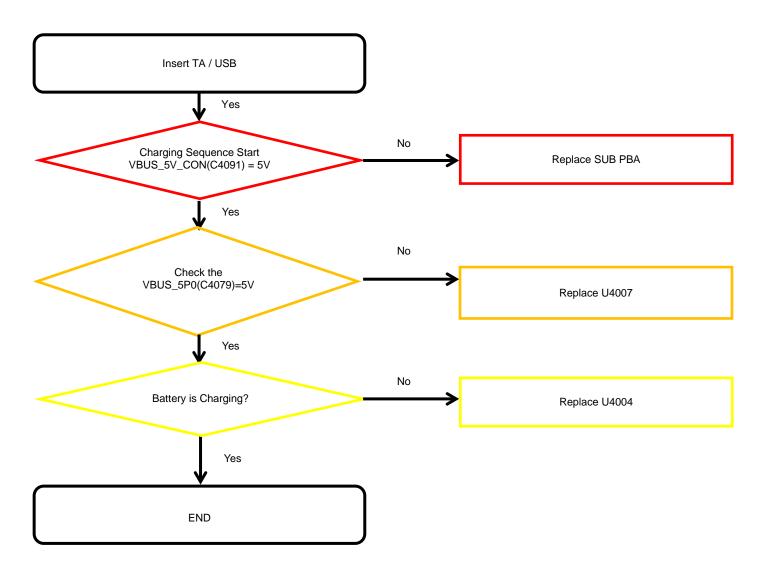
### 8-4-4. SIM Part



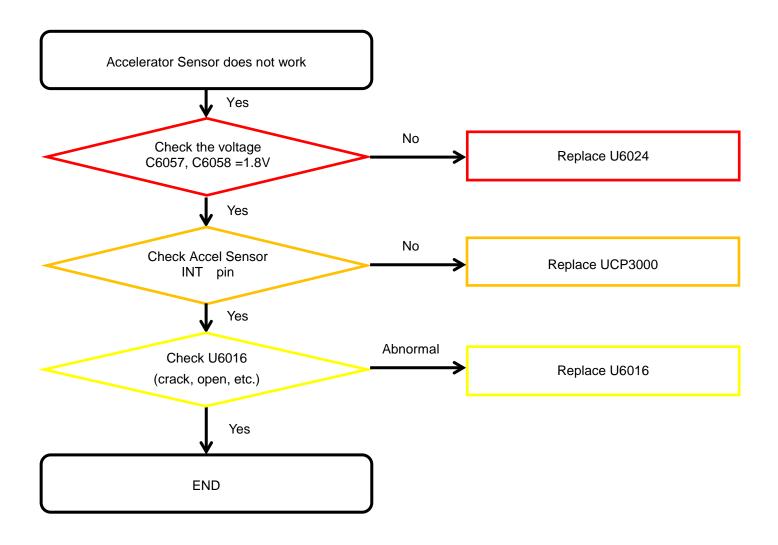
### 8-4-5. T-Flash Part



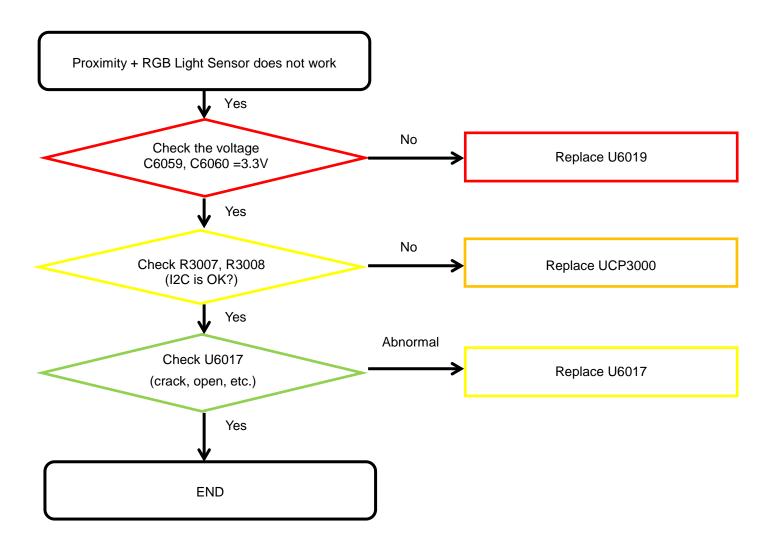
## 8-4-6. Cable Charging Part



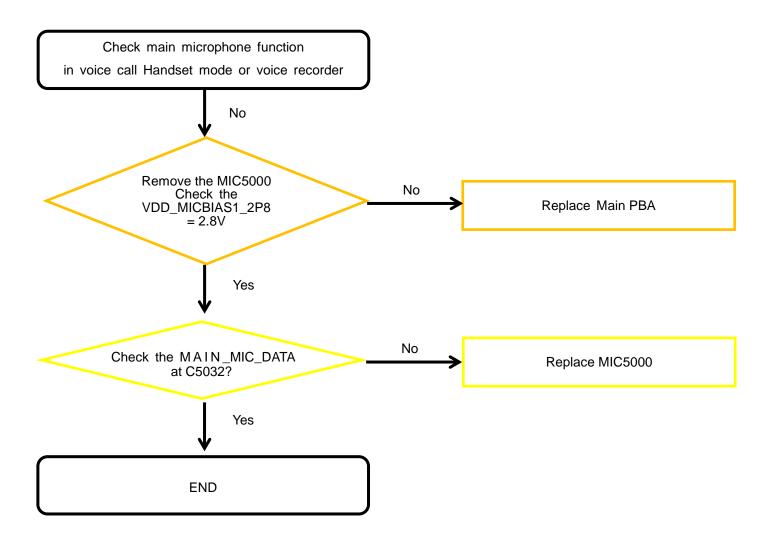
### 8-4-7-1. Accelerator Sensor



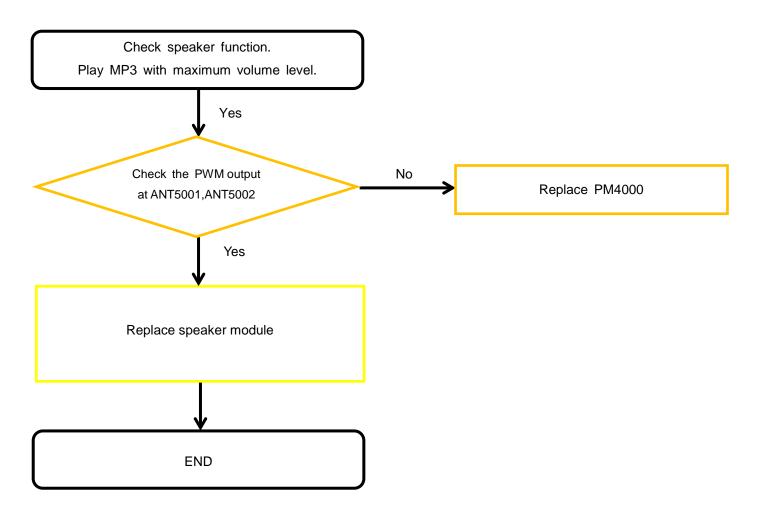
## 8-4-7-2. Proximity sensor (RGB Light sensor)



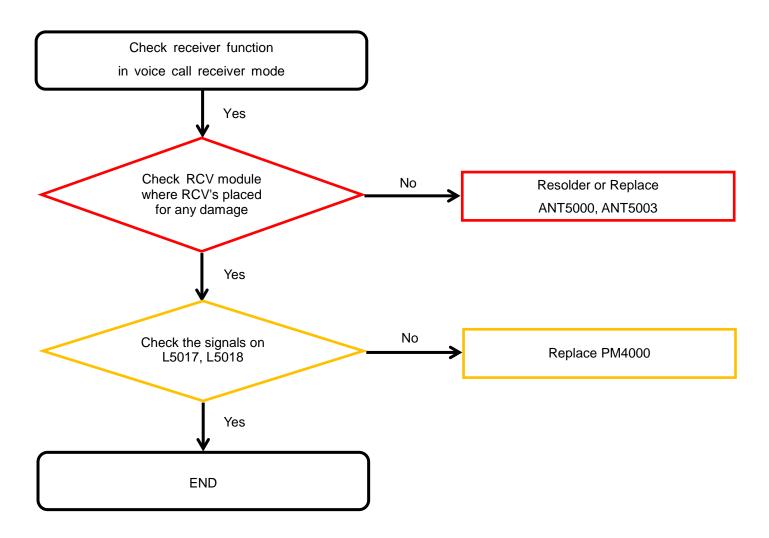
### 8-4-8. Microphone Part - Main MIC



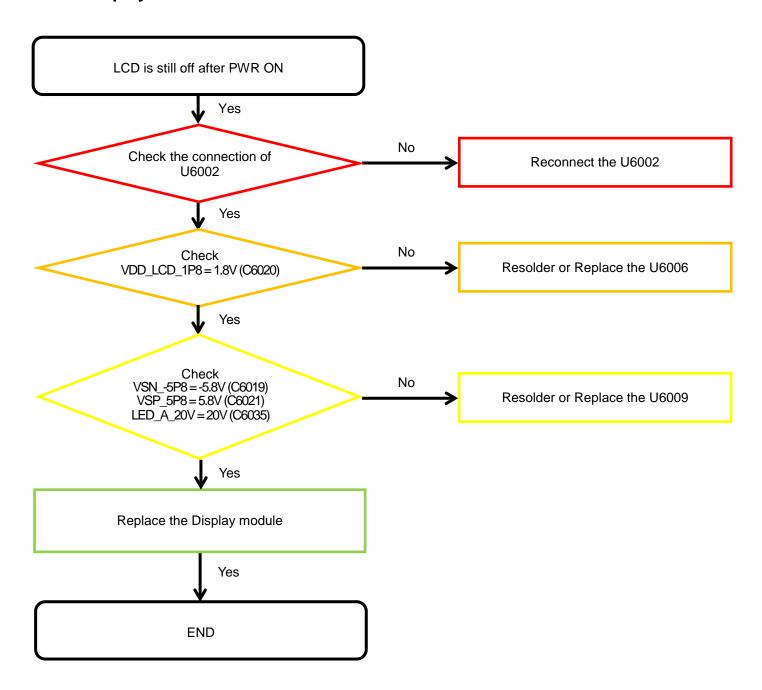
## 8-4-9. Speaker Part



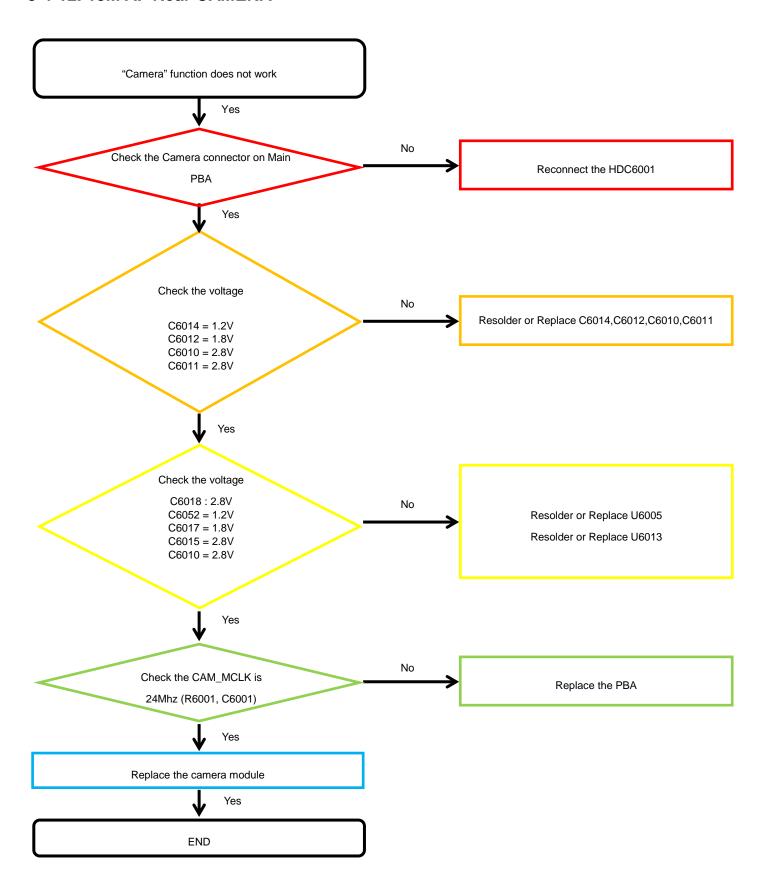
### 8-4-10. Receiver Part



## 8-4-11. Display

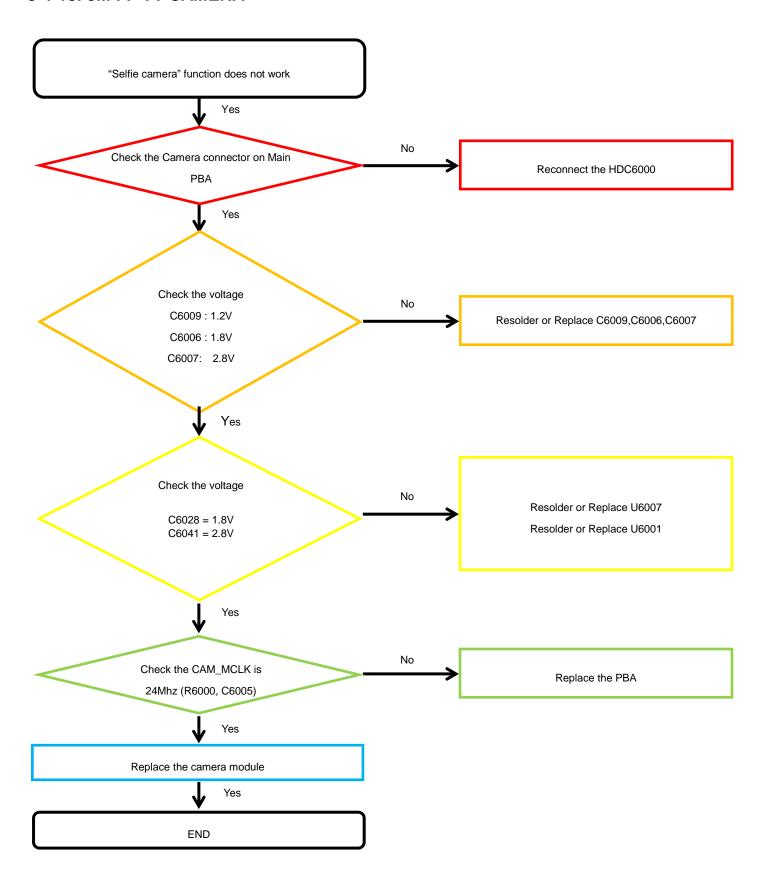


### 8-4-12. 13M AF Rear CAMERA



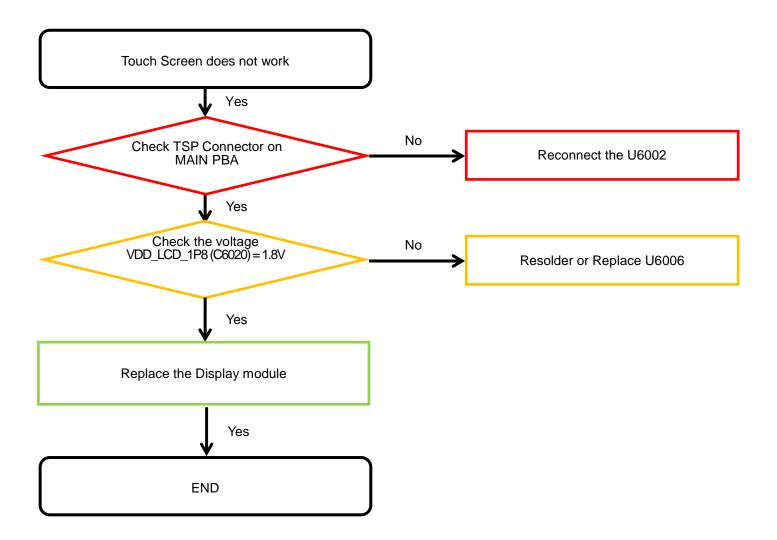
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### 8-4-13. 5M FF VT CAMERA

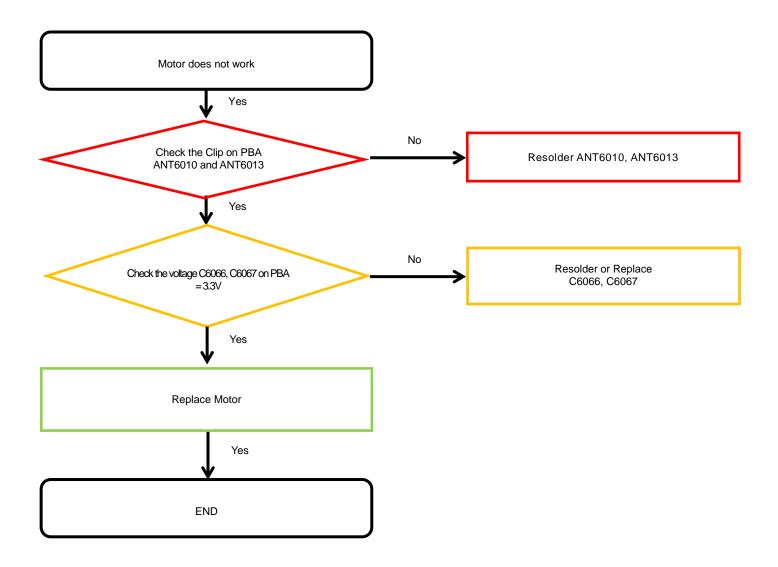


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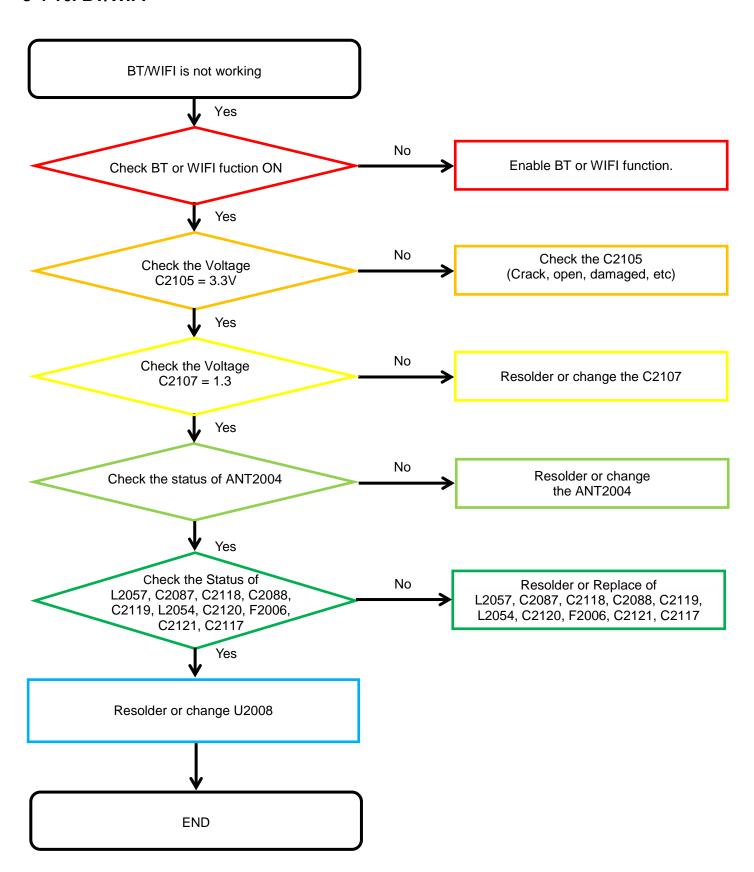
### 8-4-14. TSP



### 8-4-15. Motor

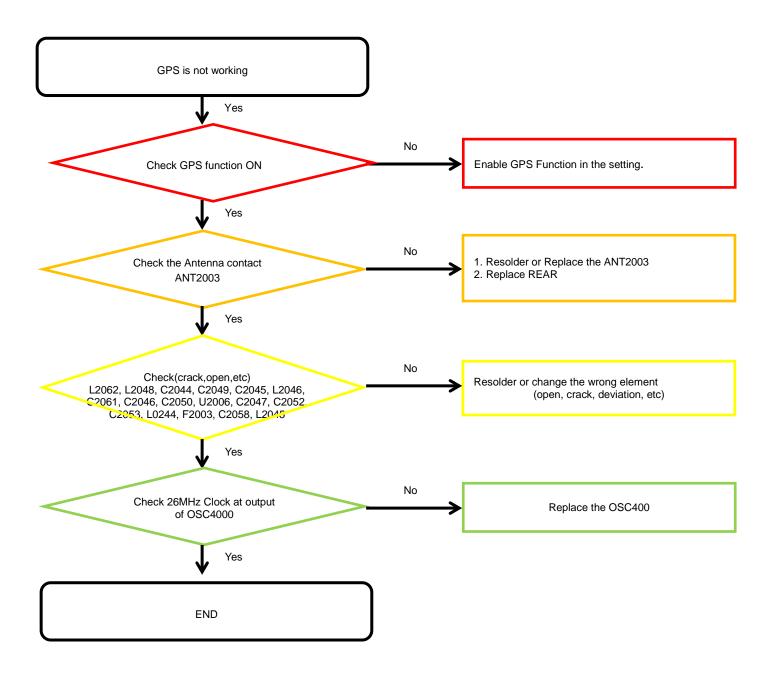


### 8-4-16. BT/WIFI

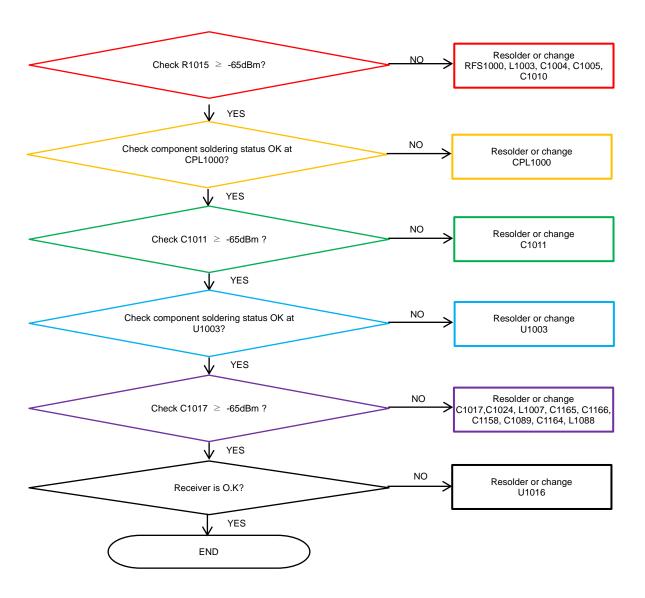


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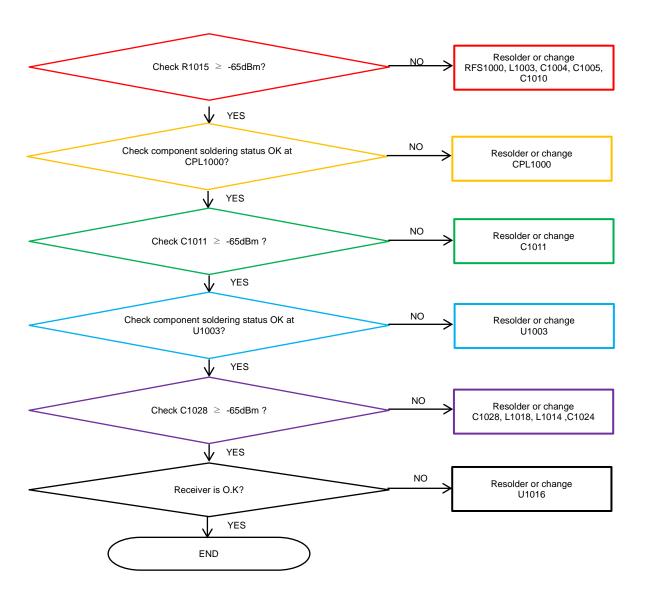
### 8-4-17. GPS



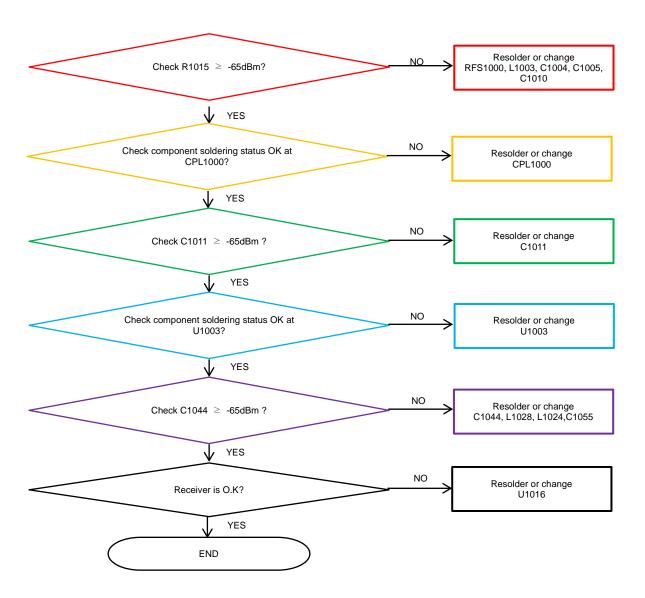
### 8-4-18. LTE B1, WCDMA B1 Rx [SM-J410F]



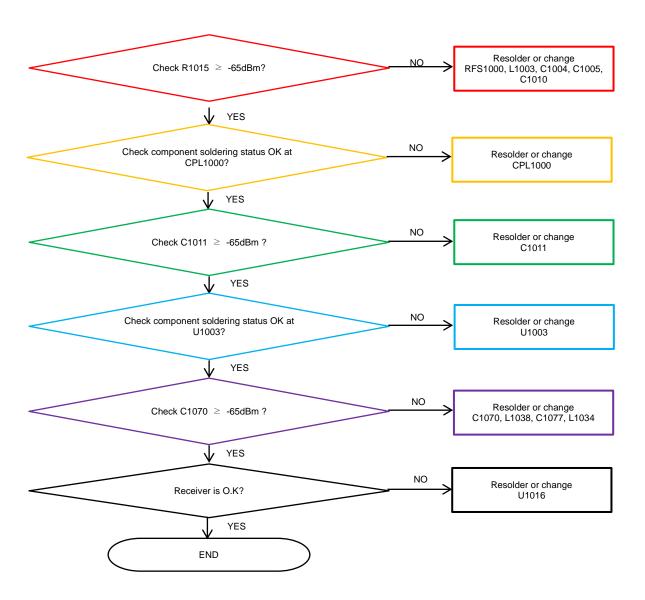
### 8-4-19. LTE, WCDMA B2 / PCS RX



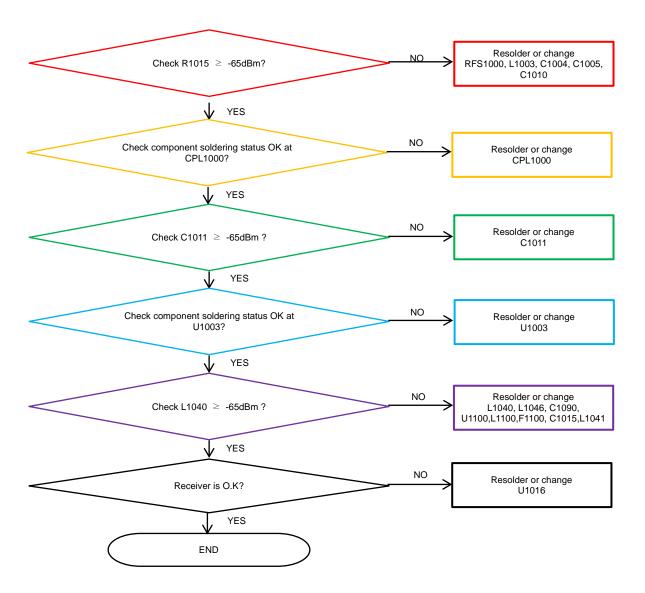
### 8-4-20. LTE B3 / DCS RX



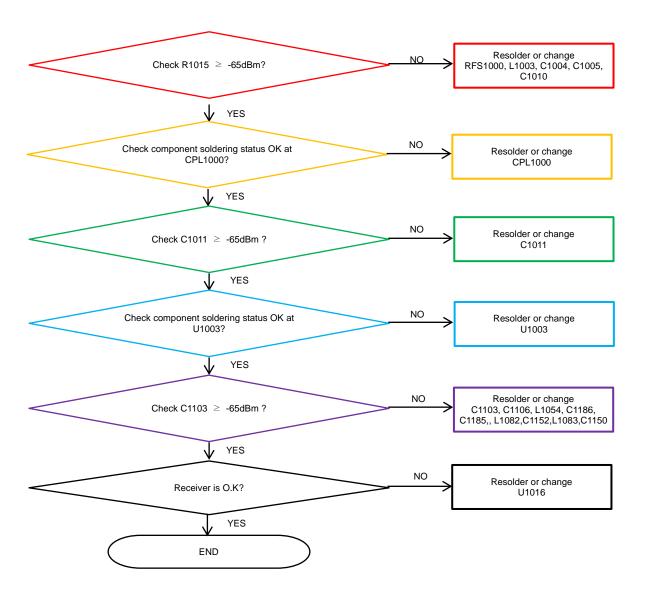
### 8-4-21. LTE, WCDMA B5 / GSM850 RX



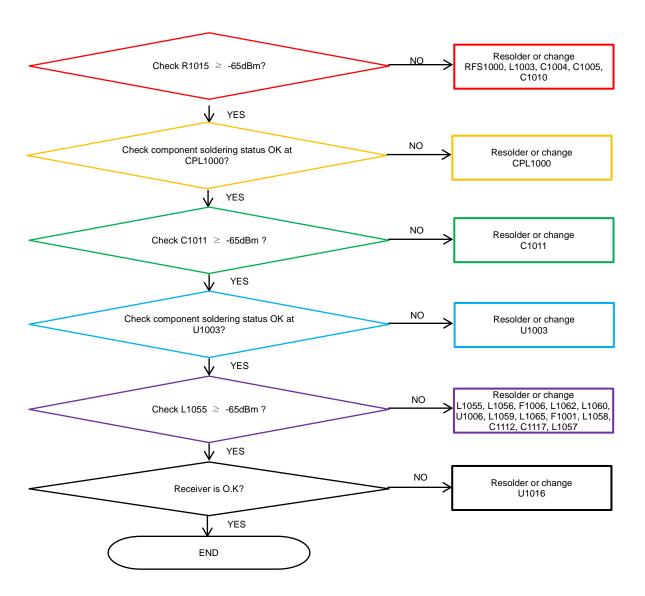
### 8-4-22. LTE, WCDMA B8 / EGSM RX



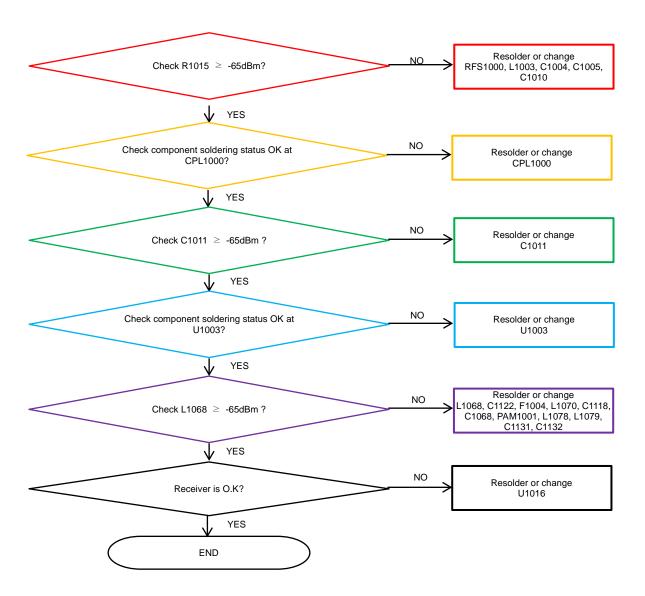
### 8-4-23. LTE B20 RX [SM-J410F]



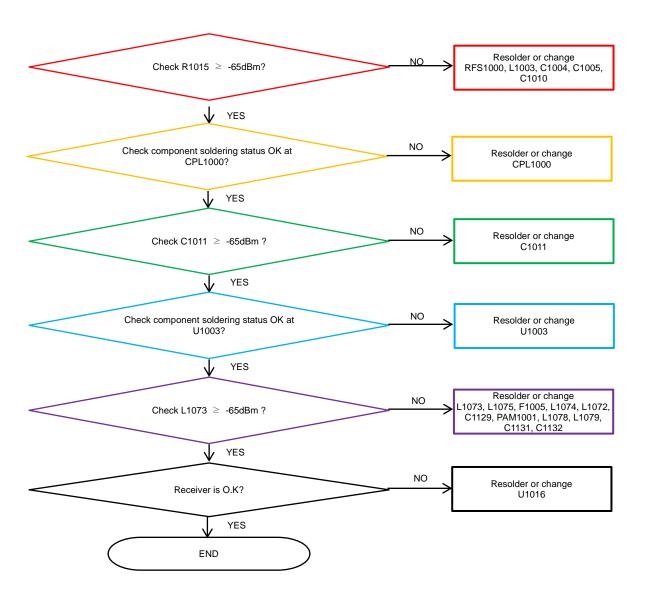
### 8-4-24. LTE B7 RX



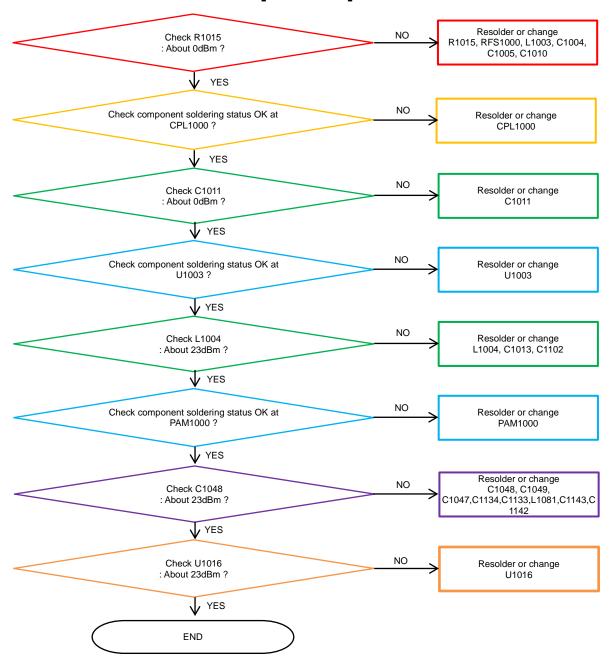
### 8-4-25. LTE B38\_41 RX



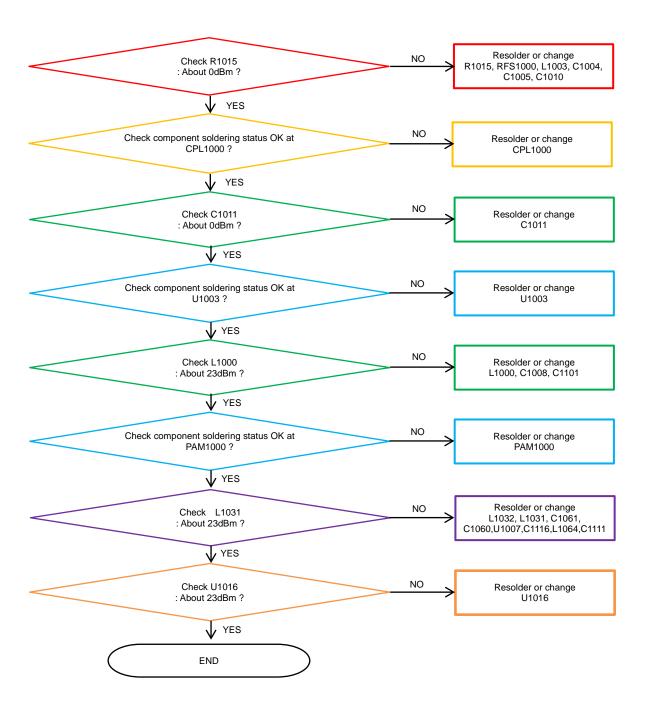
### 8-4-26. LTE B40 RX



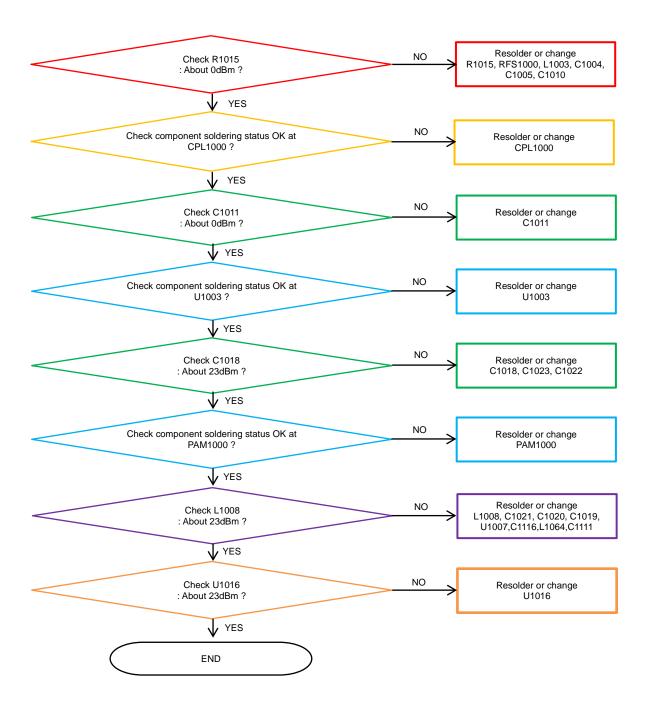
## 8-4-27. GSM 850 / GSM900 TX [SM-J410F]



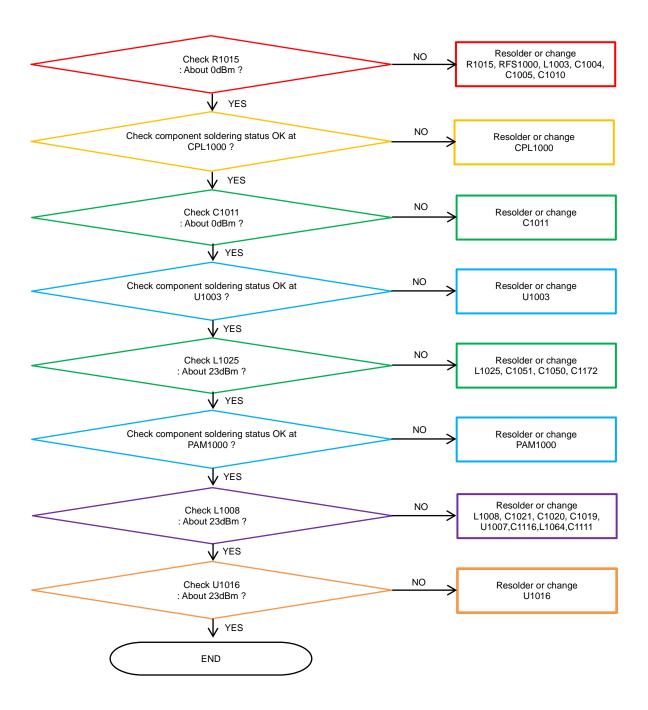
#### 8-4-28. GSM1800/ GSM1900 TX



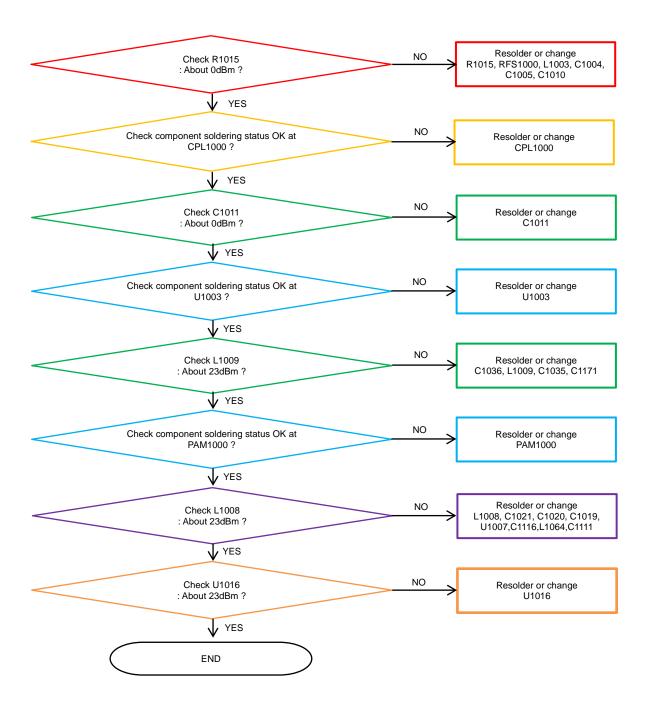
#### 8-4-29. LTE, WCDMA B1 TX



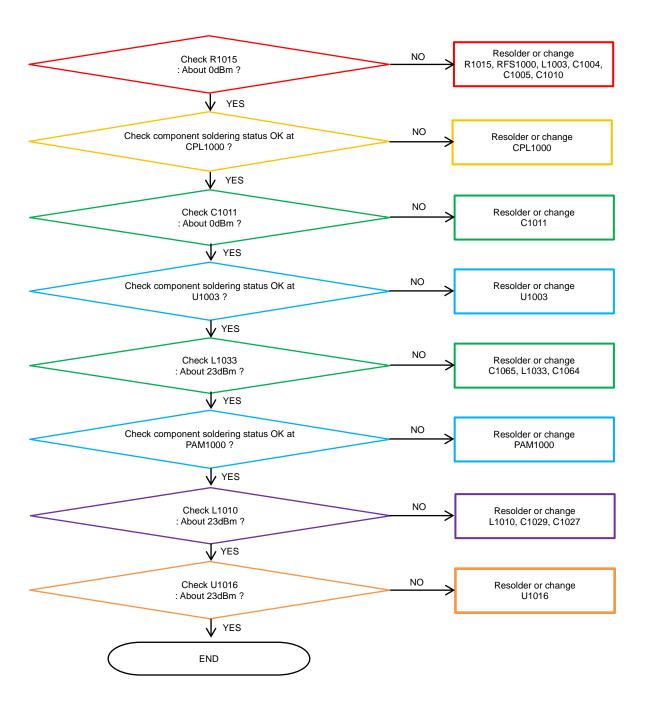
#### 8-4-30. LTE, WCDMA B2 TX



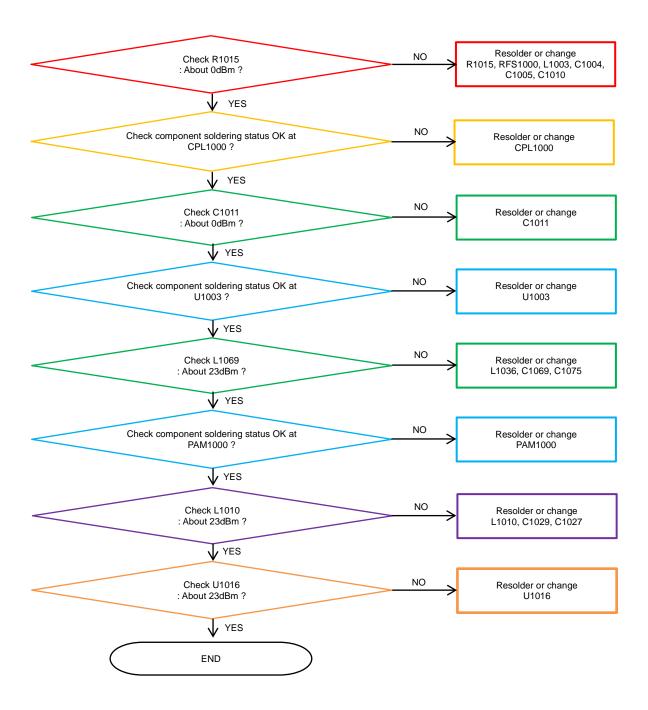
#### 8-4-31. LTE B3 TX



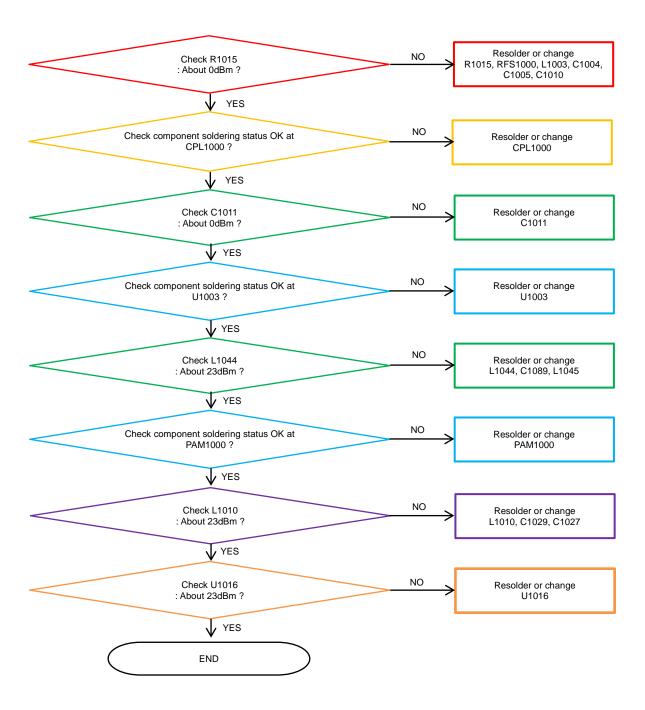
#### 8-4-32. LTE, WCDMA B5 TX



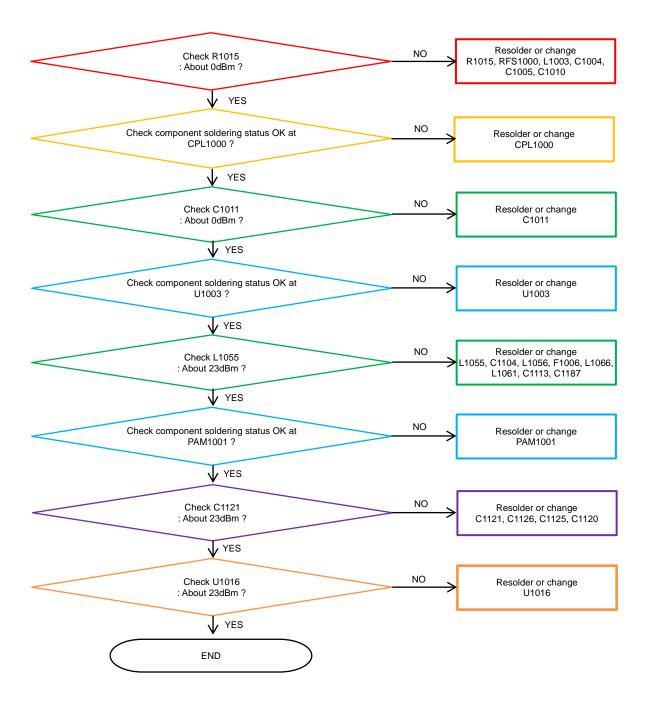
#### 8-4-33. LTE, WCDMA B8 TX



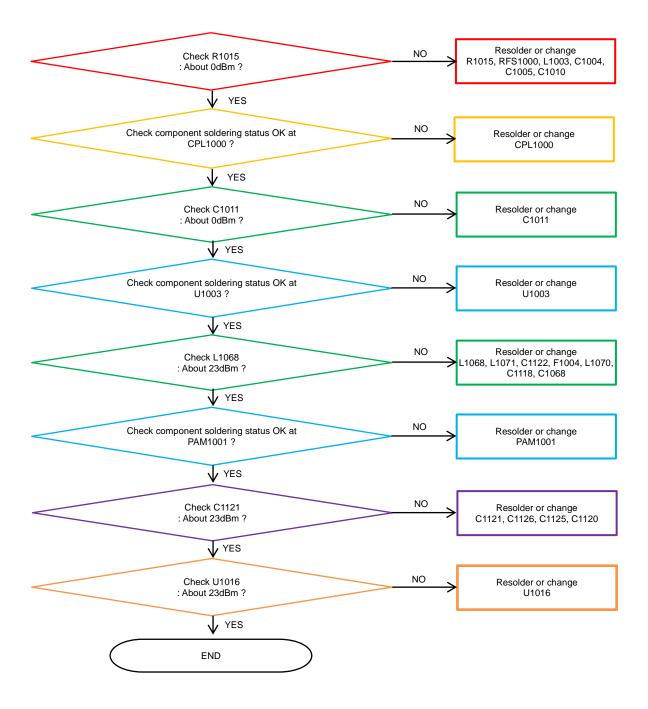
#### 8-4-34. LTE B20 TX



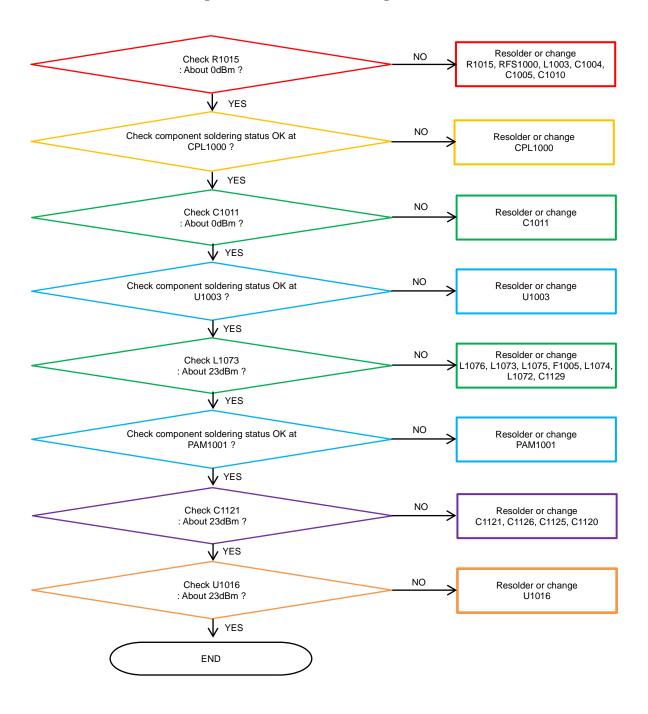
### 8-4-35. LTE B7 TX [SM-J410F, SM-J410G]



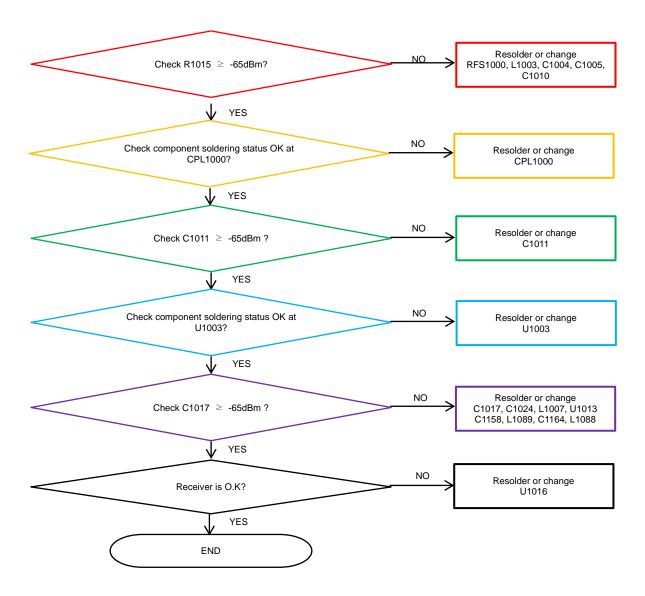
### 8-4-36. LTE B38, 41 TX [SM-J410F, SM-J410G]



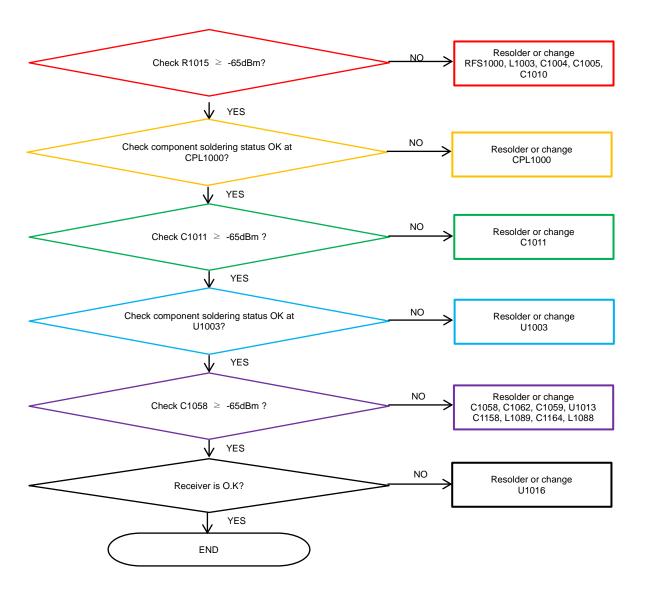
# 8-4-37. LTE B40 TX [SM-J410F, SM-J410G]



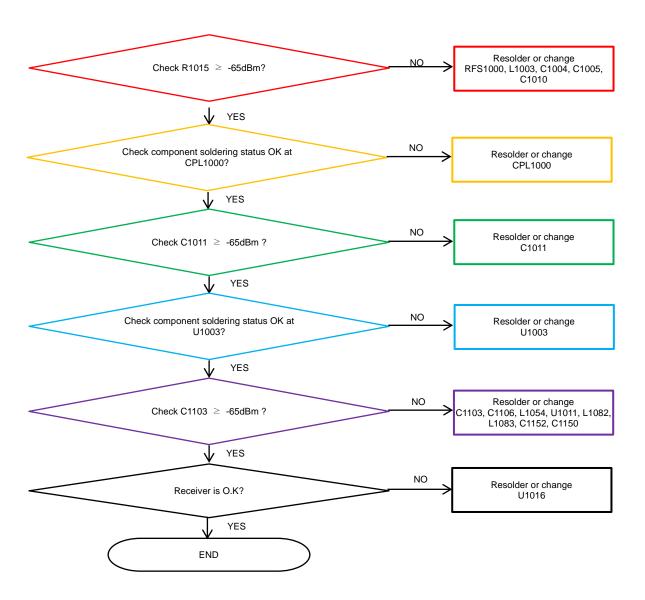
#### 8-4-38. LTE B1, WCDMA B1 Rx [SM-J410G]



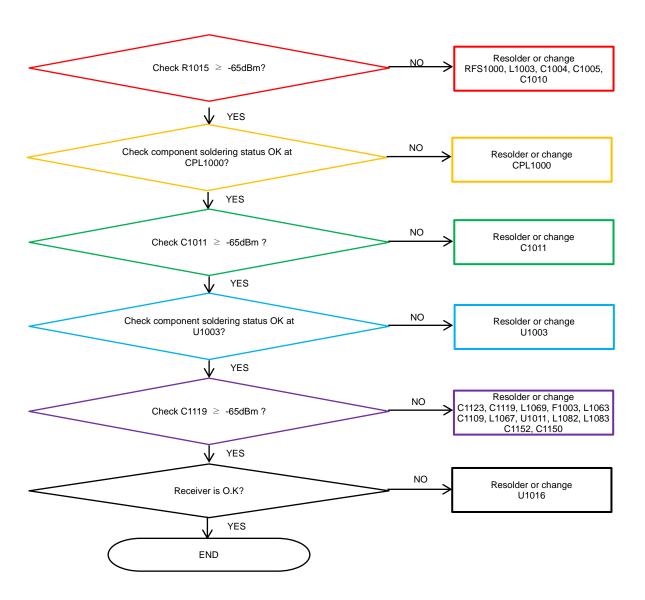
#### 8-4-39. WCDMA B4, LTE B4, B66 Rx [SM-J410G]



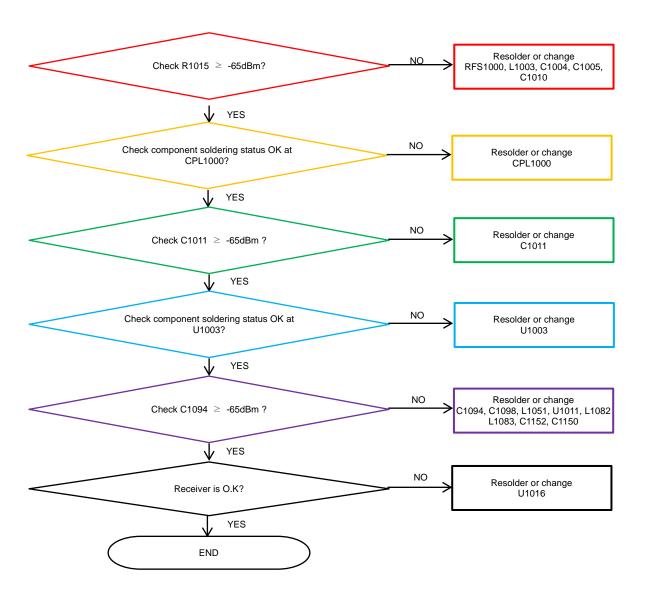
### 8-4-40. LTE B20 RX [SM-J410G]



#### 8-4-41. LTE B28 RX [SM-J410G]

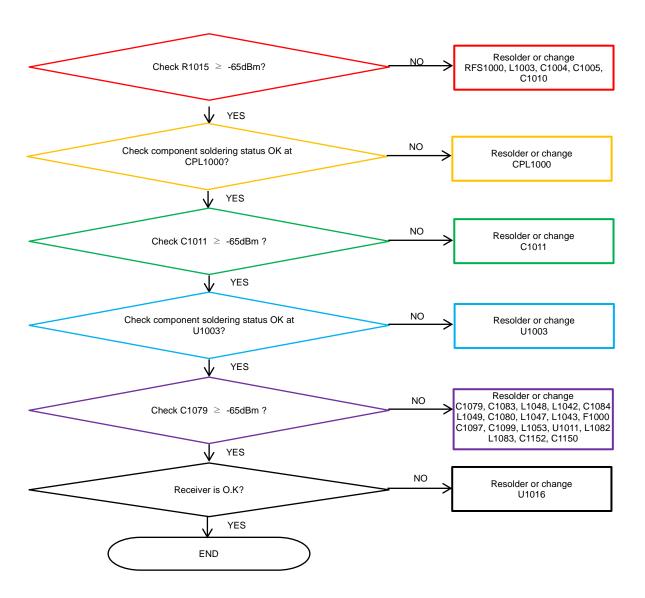


#### 8-4-42. LTE B12, 17 RX [SM-J410G]

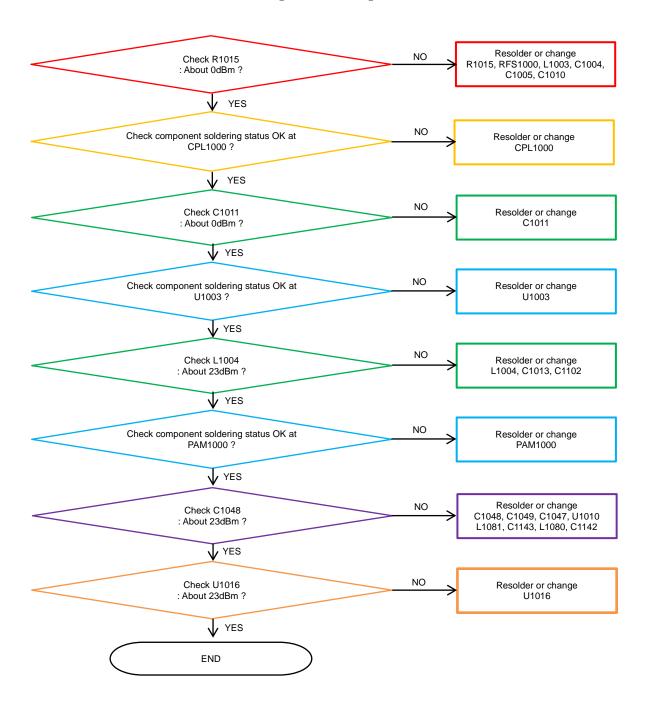


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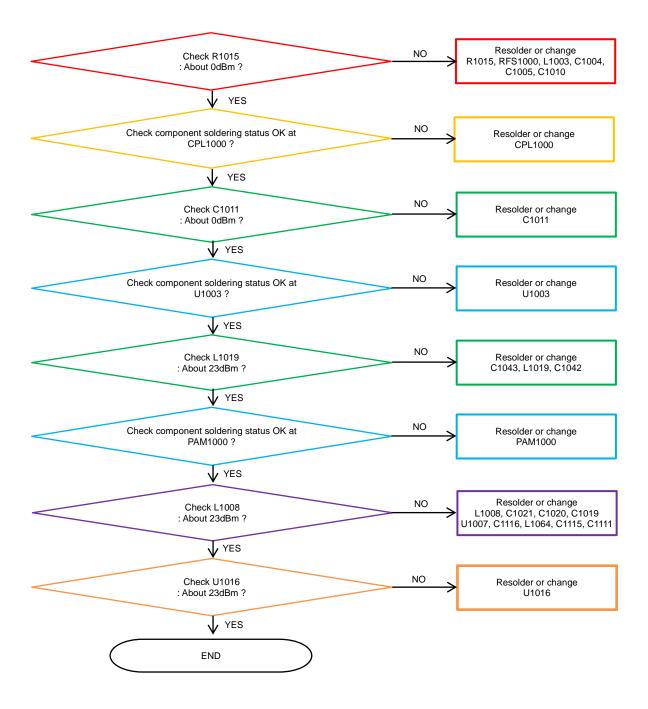
#### 8-4-43. LTE B13 RX [SM-J410G]



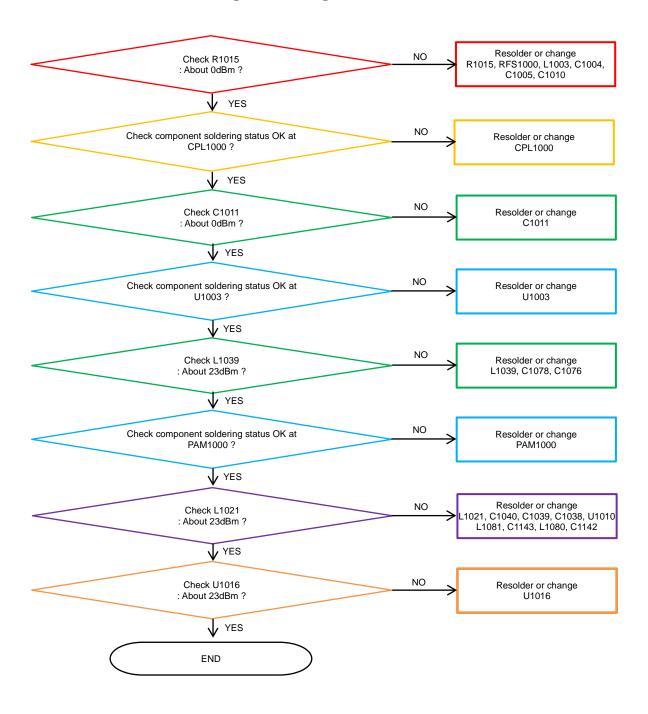
### 8-4-44. GSM 850 / GSM900 TX [SM-J410G]



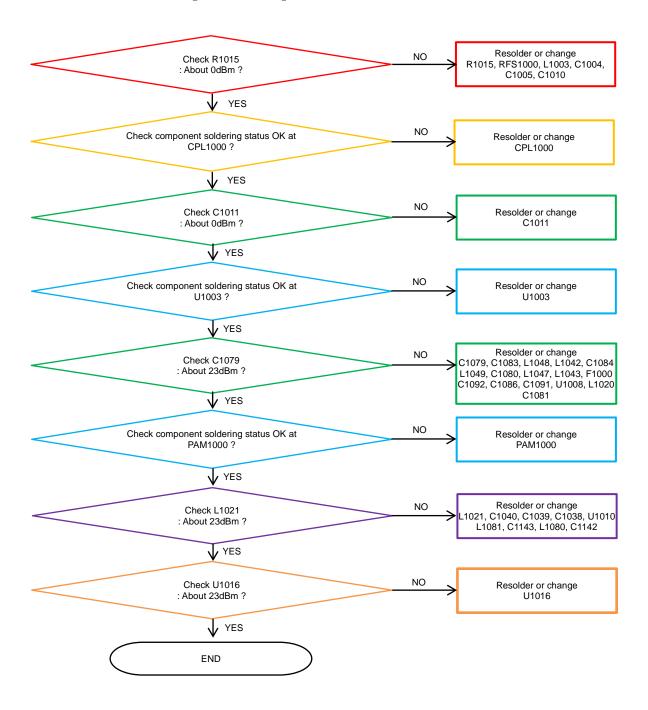
#### 8-4-45. WCDMA B4, LTE B4, B66 TX [SM-J410G]



### 8-4-46. LTE B12, B17 TX [SM-J410G]



#### 8-4-47. LTE B13 TX [SM-J410G]



### 8-4-48. LTE B28 TX [SM-J410G]

