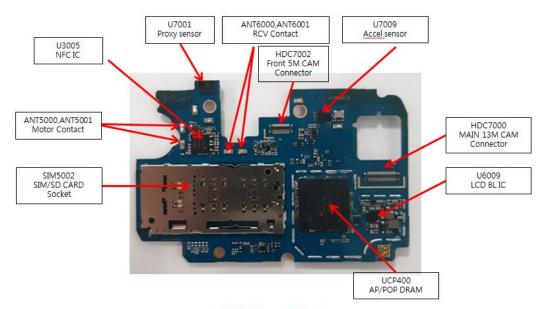
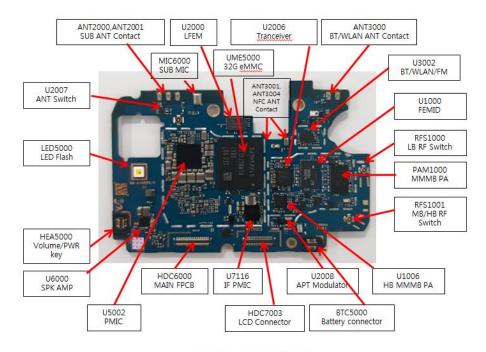
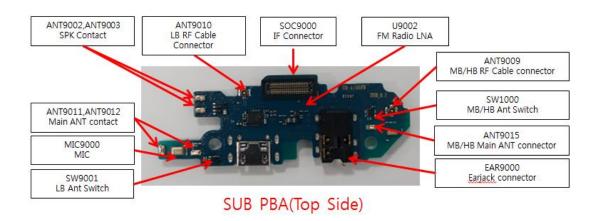
8-1. Components Layout

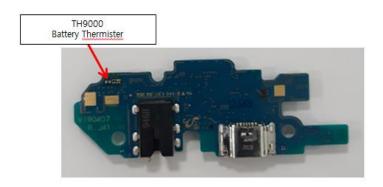


PBA(Top Side)



PBA(Bottom Side)



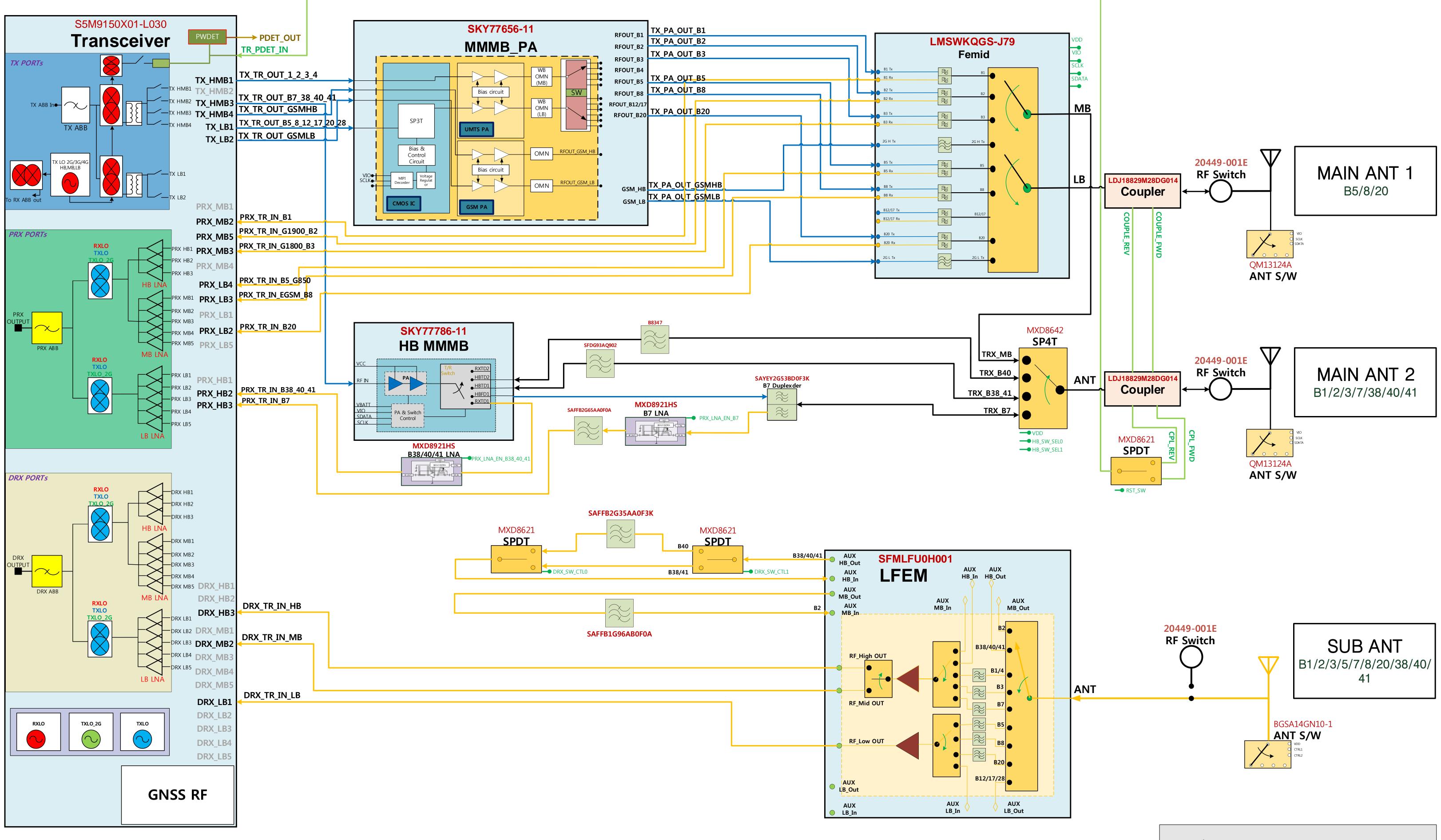


SUB PBA(Bottom Side)

SAMSUNG CONFIDENTIAL

SM-A105FN/N(A10) RF BLOCK Diagram

2019.03.20

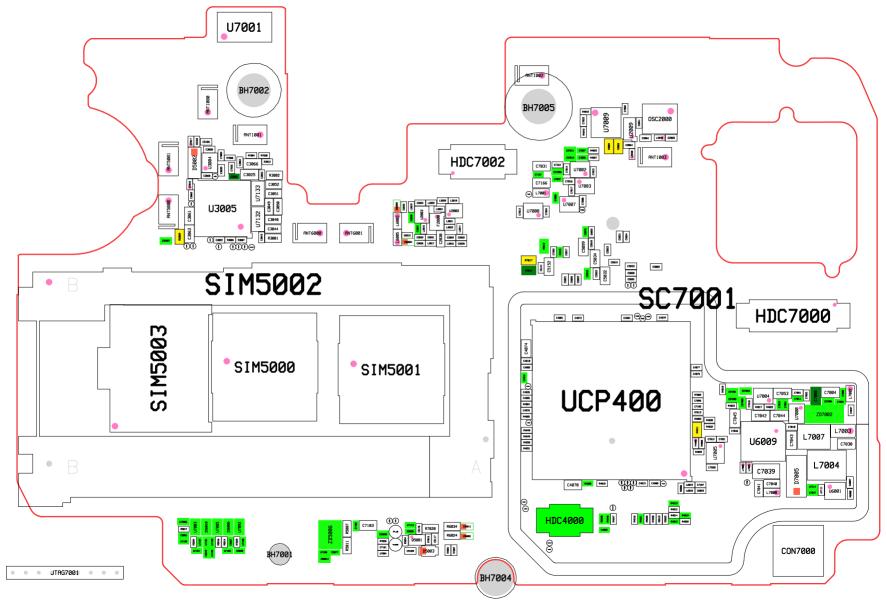


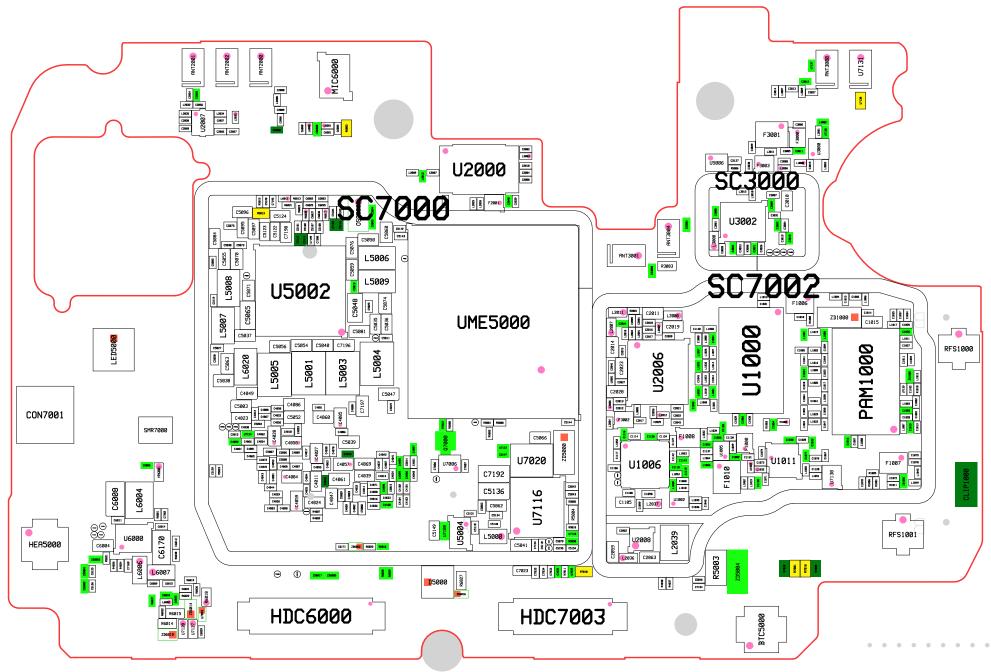
EUR/KOR

2G: 850/900/1800/1900

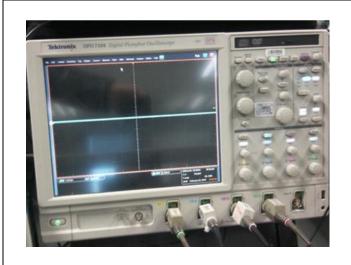
3G: B1/2/5/8

4G: B1/2/3/5/7/8/20/38/40/41





8-3. Flow chart of Troubleshooting.





Oscilloscope

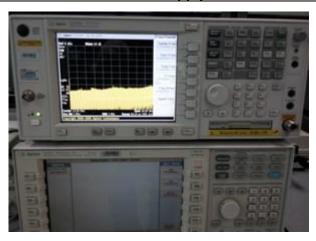
Digital Multimeter





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 Check the Battery Voltage. If its voltage level is extremely low Is it more than 3.8V? (under 3.0V), 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 / Volume key FPCB R5021 while pressing power key. Is the voltage high? Check the output voltage of U5001 Yes L5006 > 2.0V, L5005 > 1.35V, C4000 > 0.8V C5030 > 0.85V, C5029 > 0.85V, L5003 > 0.8V L5002 > 0.8V, L5004 > 0.8V, C4059 > 0.8V No C5007 > 1.0V, C5023 > 1.8V, C4043 > 0.9V Check the signal of C4047 > 1.8V, C5025 > 1.2V, C5024 > 1.2V PWRHOLD(TP4000) = 1.8VC4051 > 3.0V, C4060 > 1.8V, C4062 > 1.2V If the output voltage is not normal,

Check the Initial status
Current Binary : Samsung Official
System Status : Official

Yes

No

Re-download Official Binary
If it is still problem, change the PBA

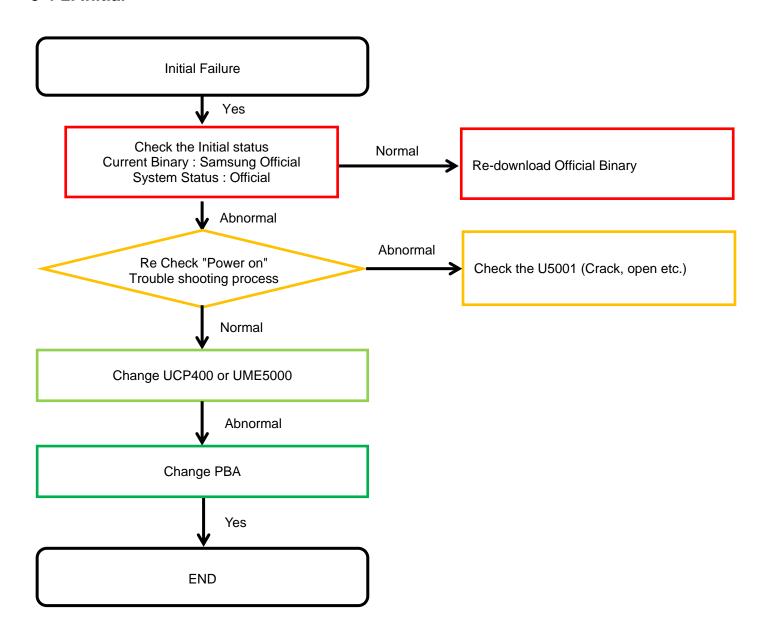
Yes

END

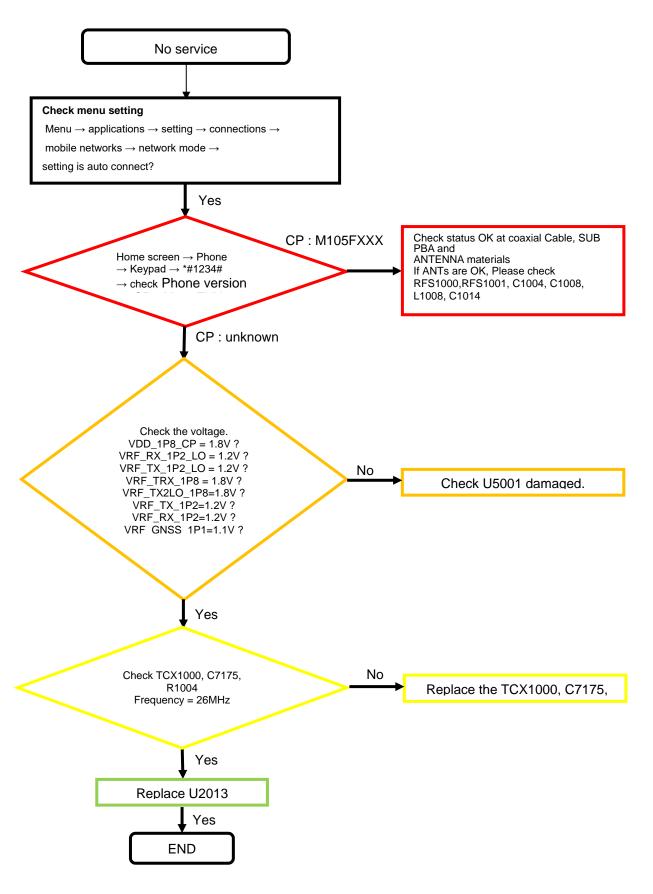
Change the U5001.

Each voltage level has ±10% margin.

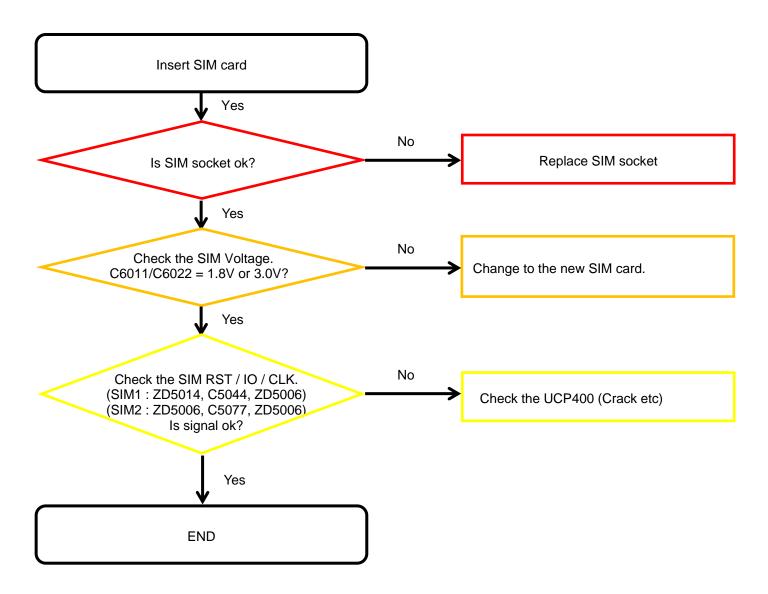
8-4-2. Initial



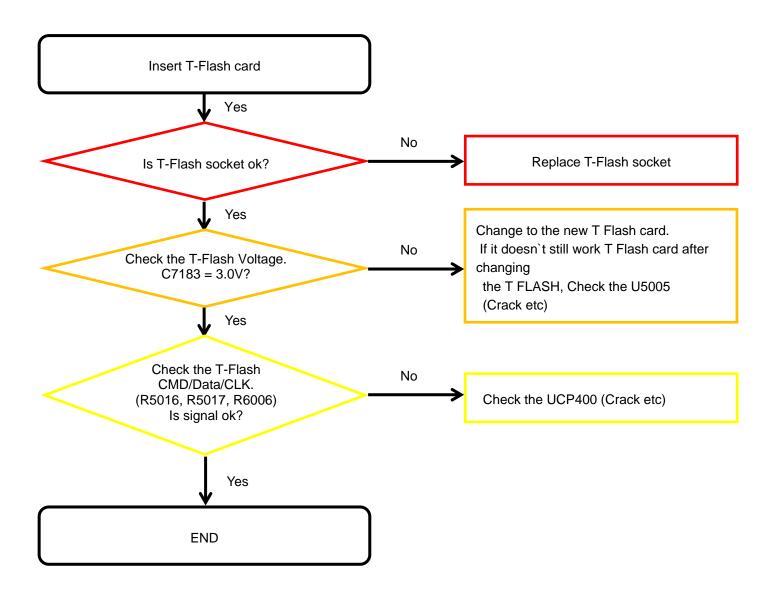
8-4-3. No Service



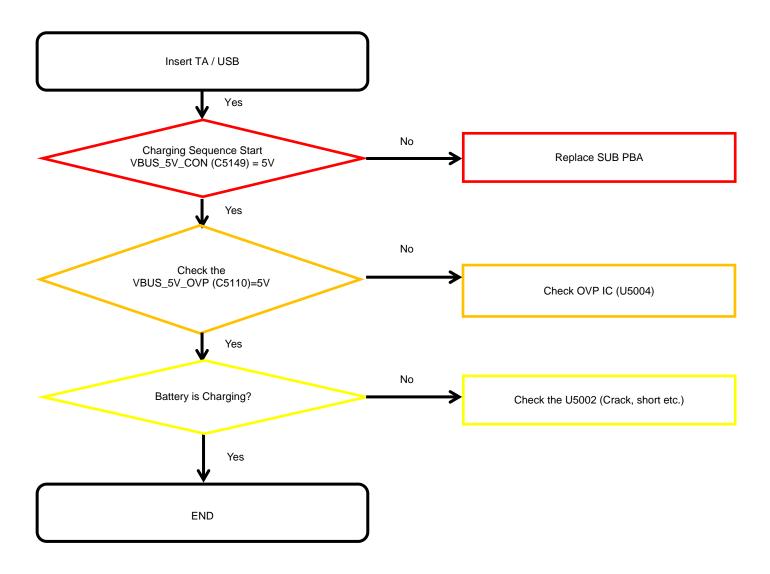
8-4-4. SIM Part



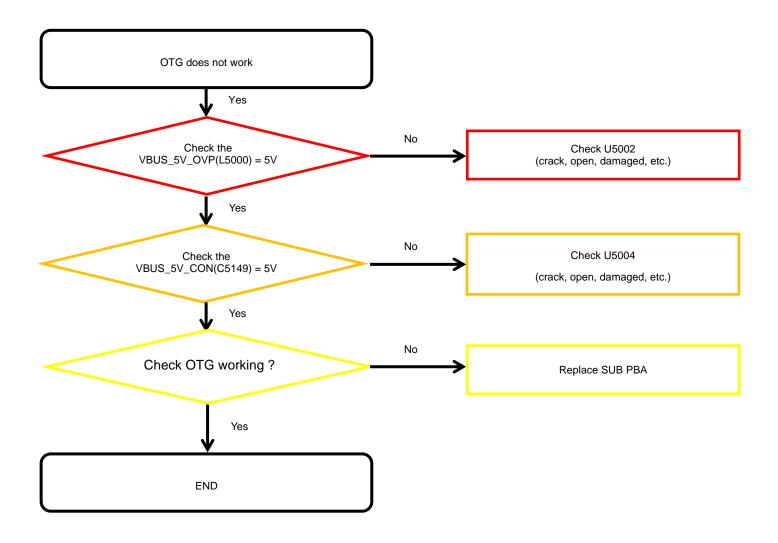
8-4-5. T-Flash Part



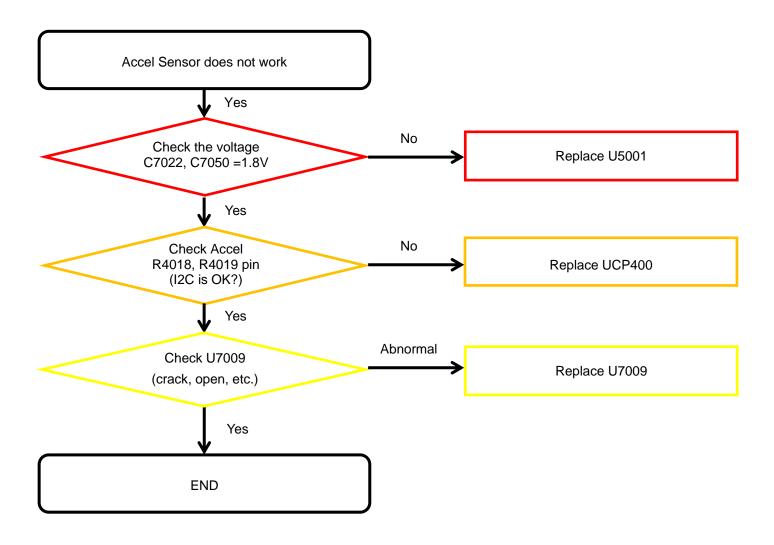
8-4-6. Charging Part



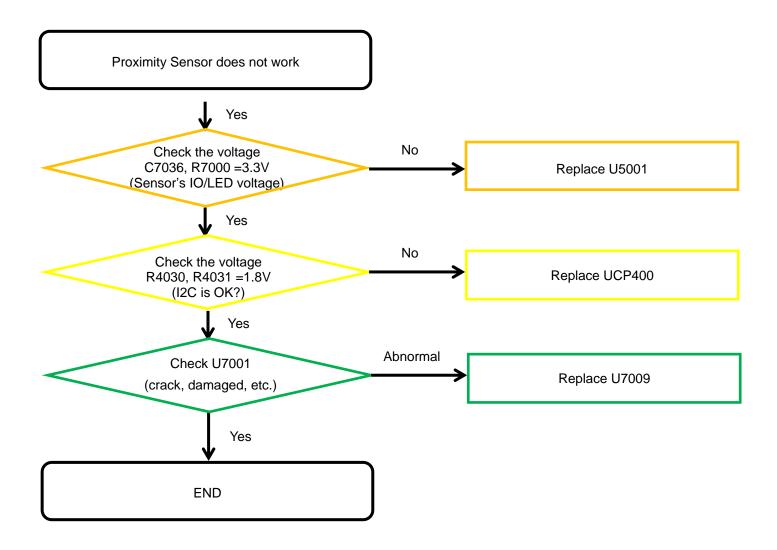
8-4-7. OTG



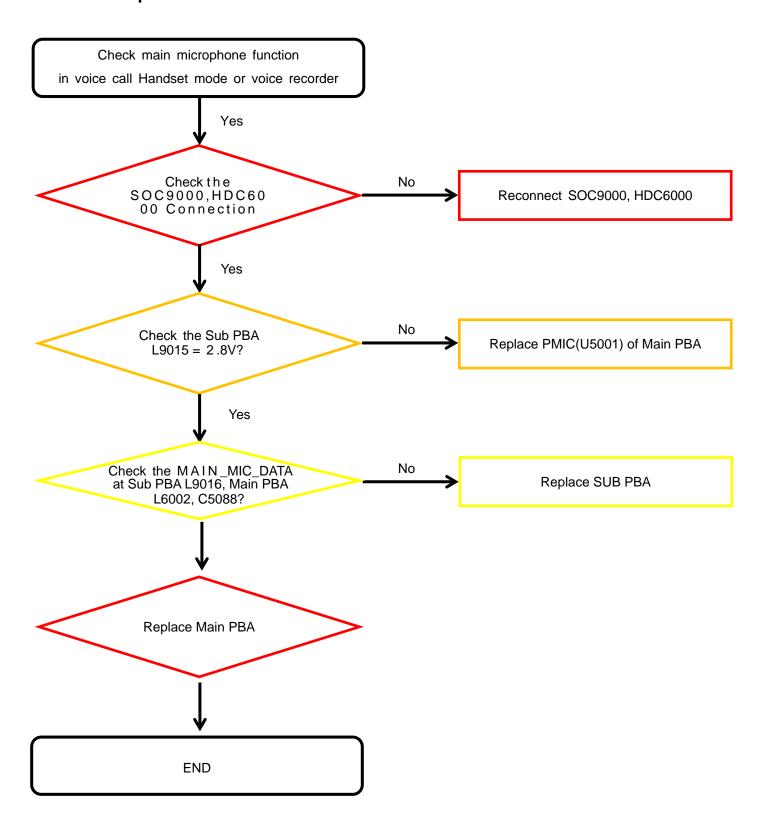
8-4-8-1. Accel Sensor



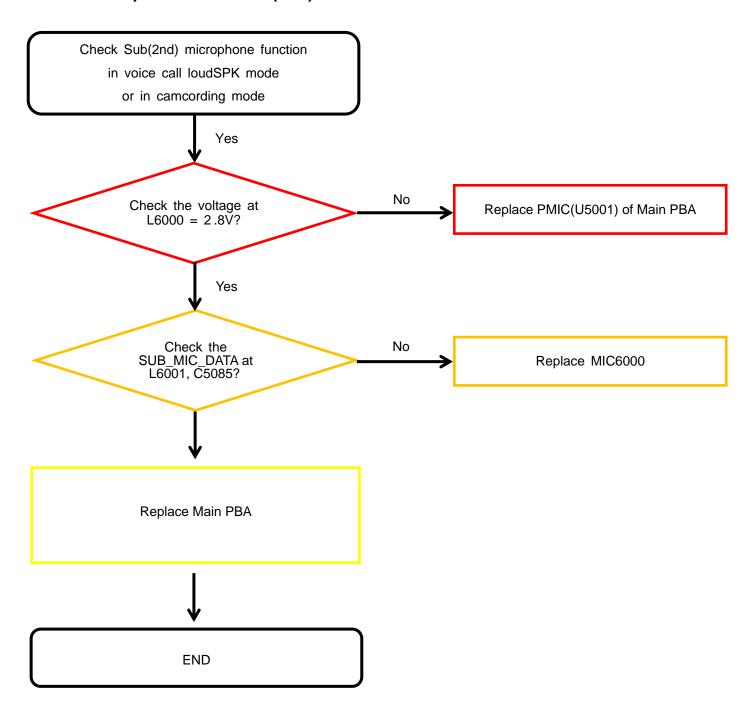
8-4-8-2. Proximity Sennsor



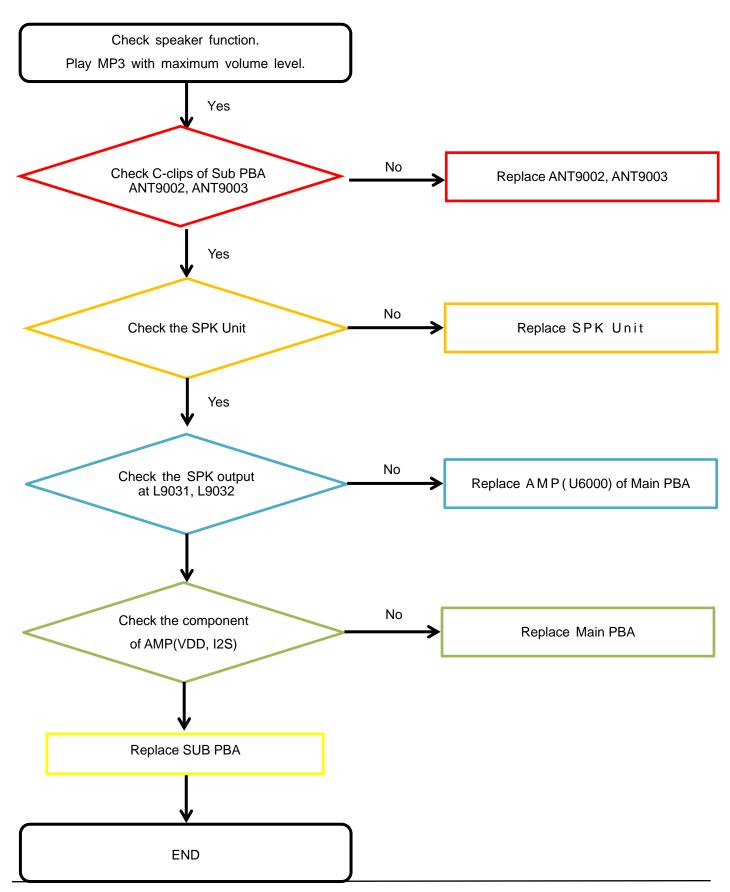
8-4-9-1. Microphone Part - Main MIC



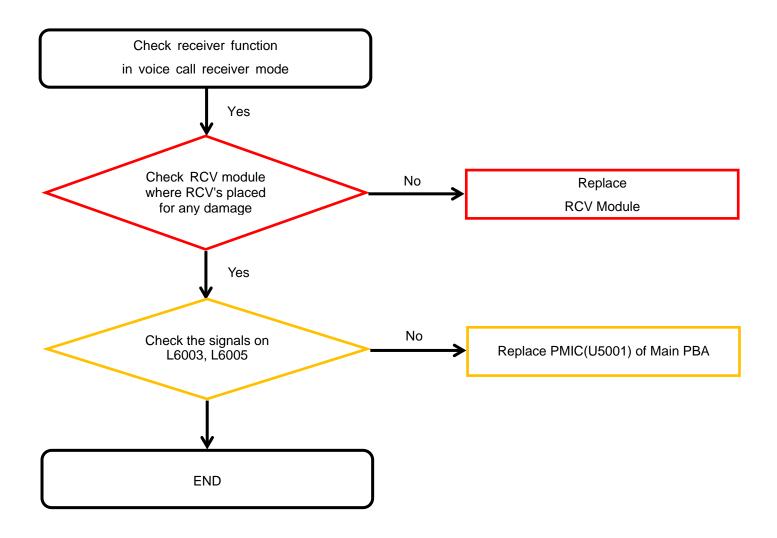
8-4-9-2. Microphone Part - Sub(2nd) MIC



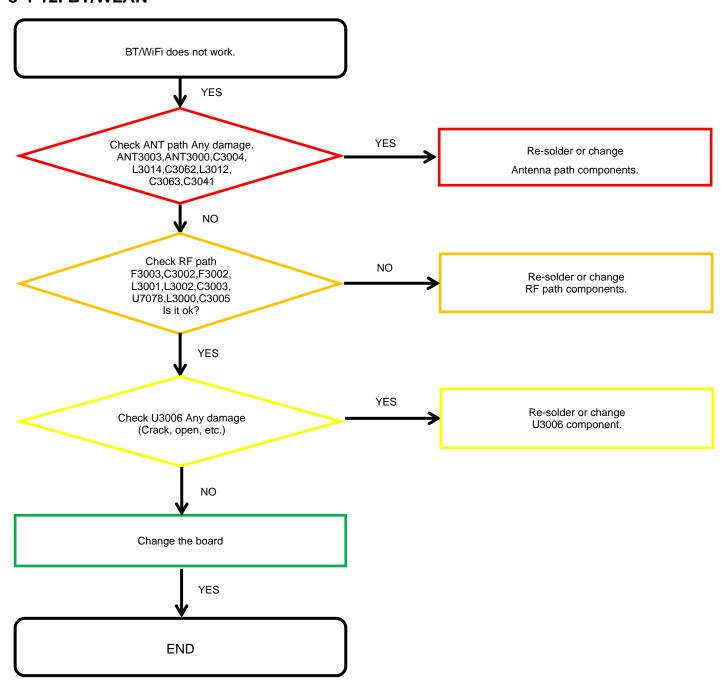
8-4-10. Speaker Part



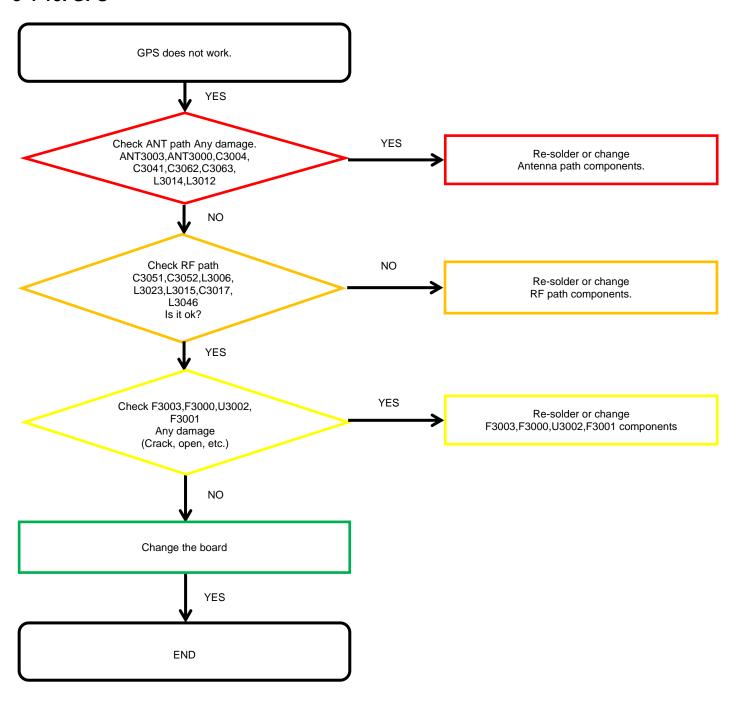
8-4-11. Receiver Part



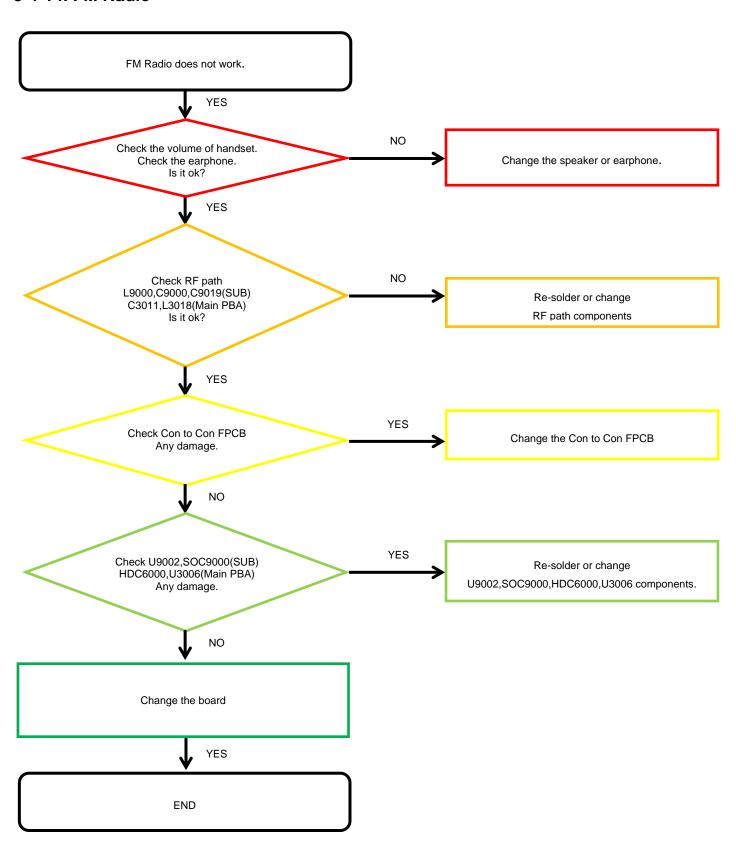
8-4-12. BT/WLAN



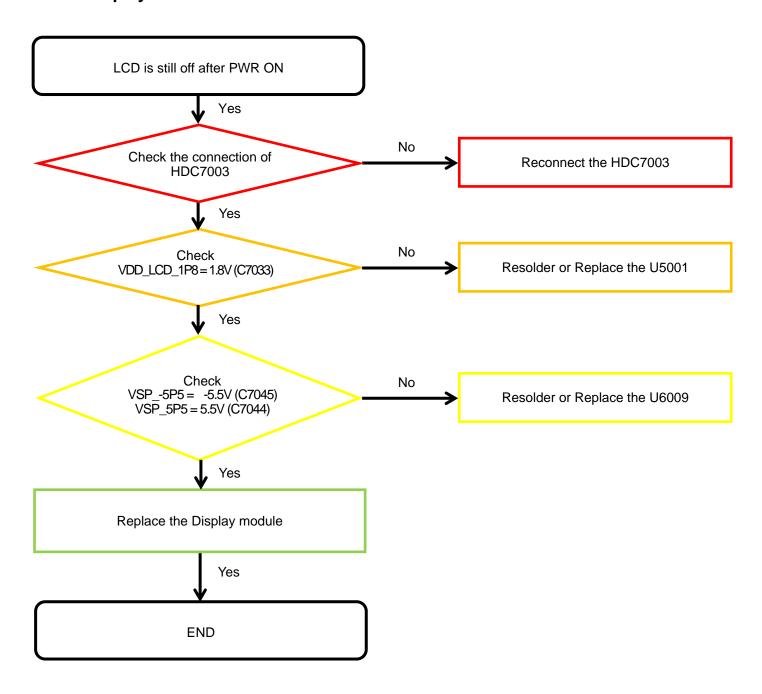
8-4-13. GPS



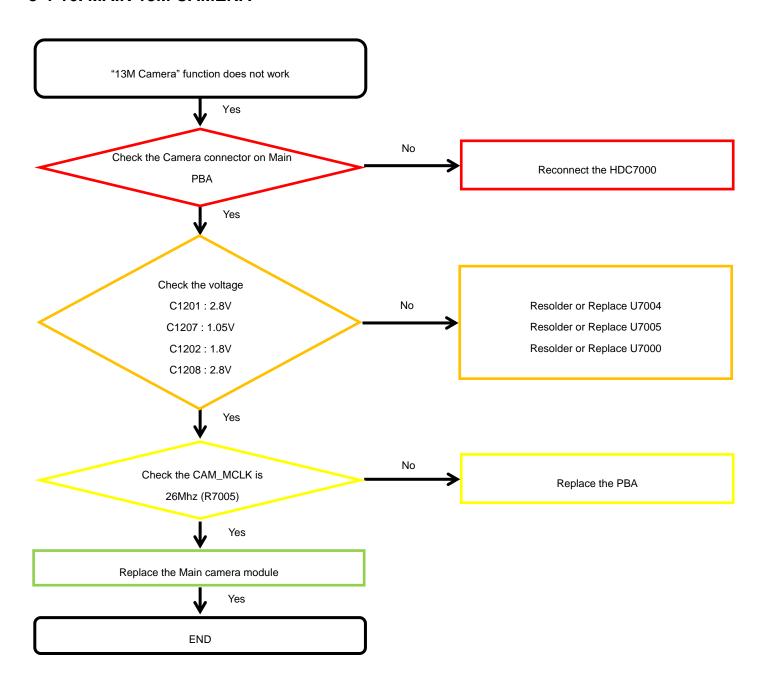
8-4-14. FM Radio



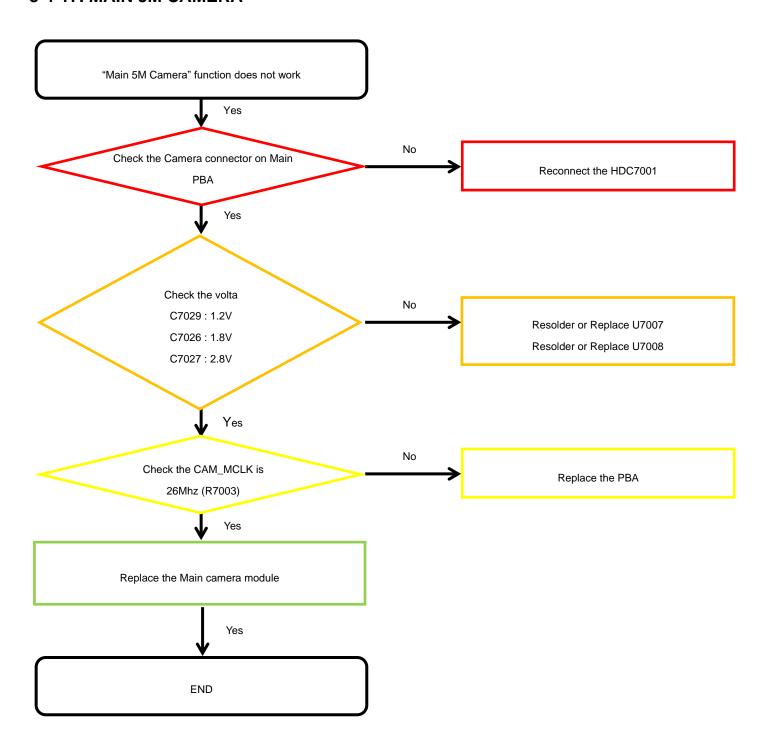
8-4-15. Display



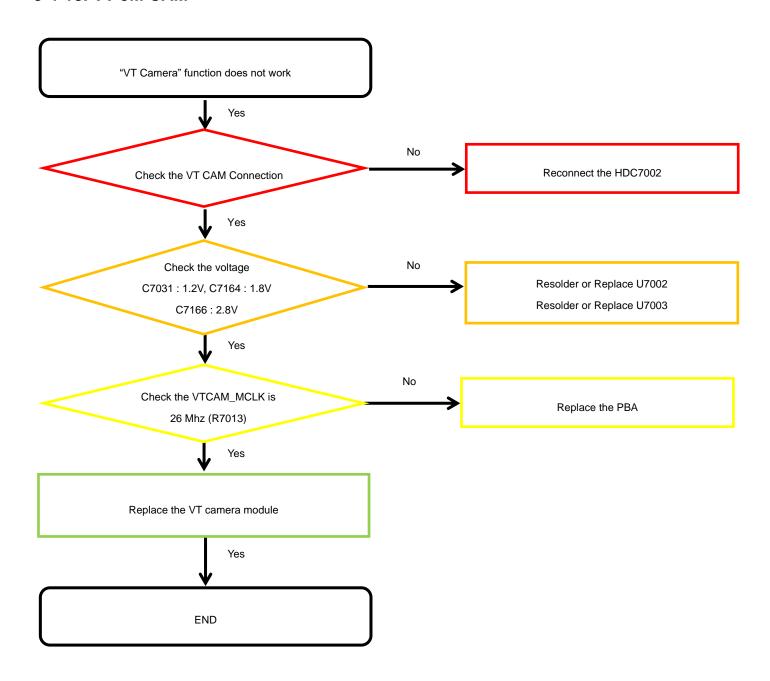
8-4-16. MAIN 13M CAMERA



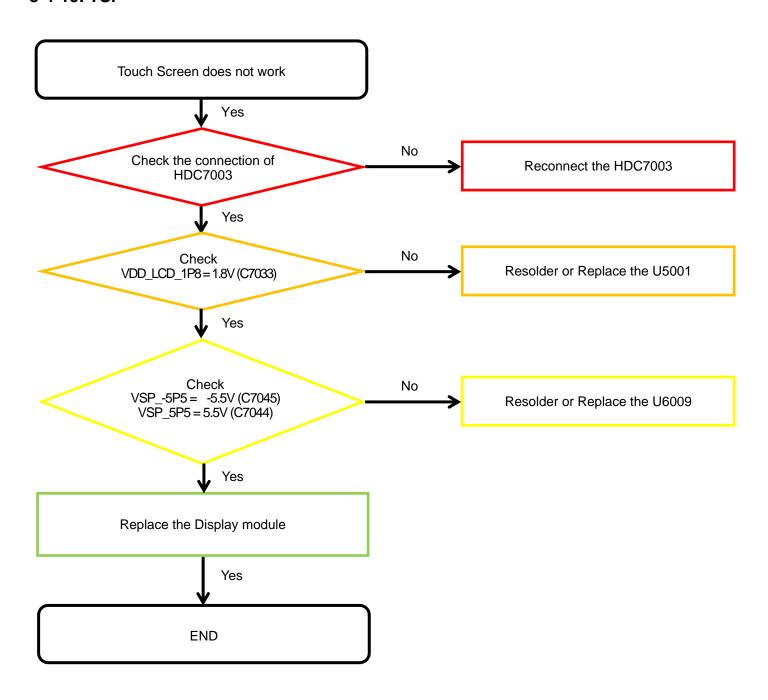
8-4-17. MAIN 5M CAMERA



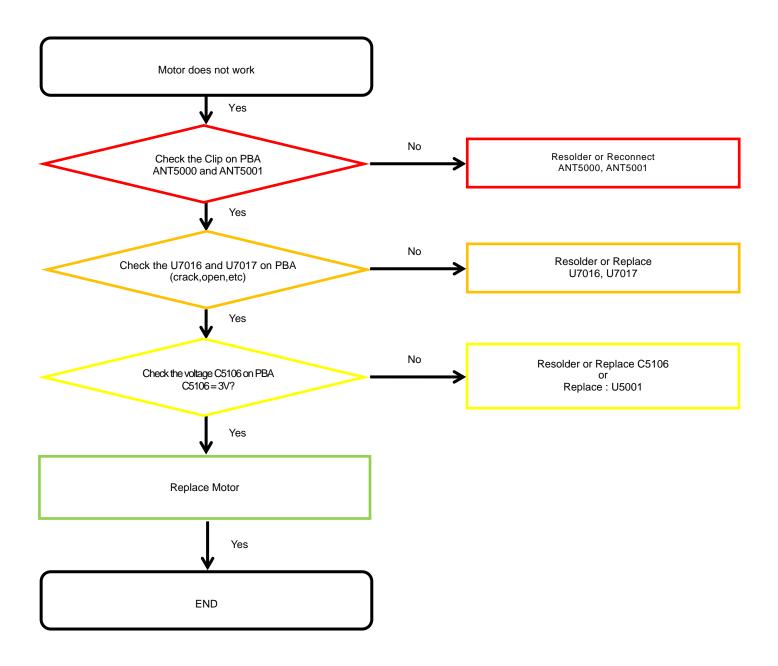
8-4-18. VT 5M CAM



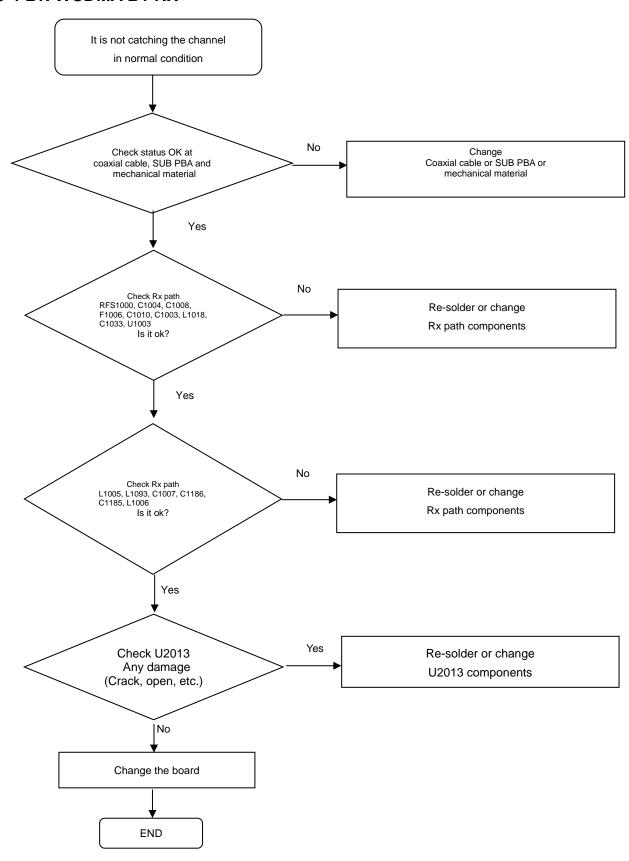
8-4-19. TSP



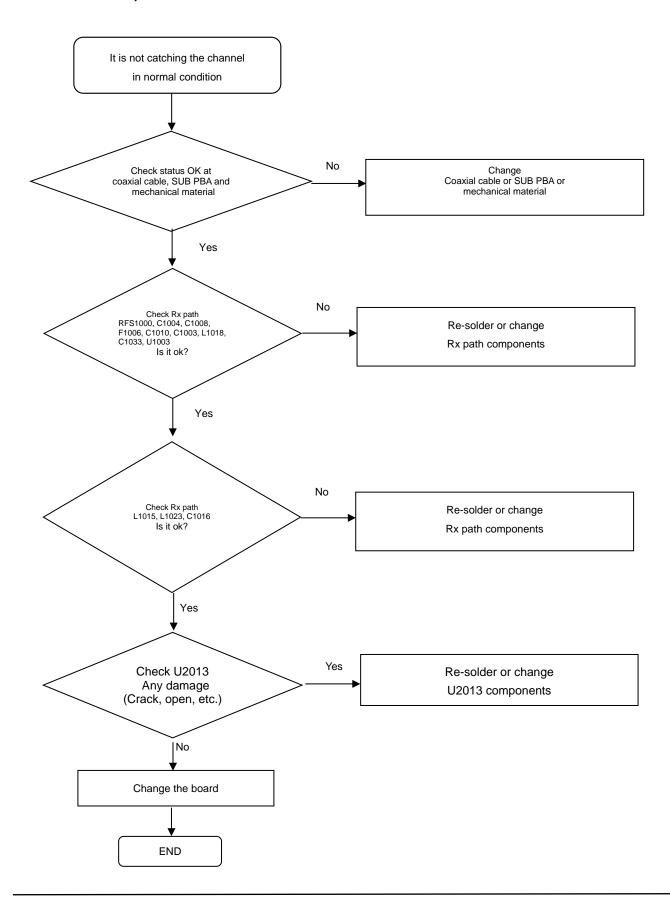
8-4-20. Motor



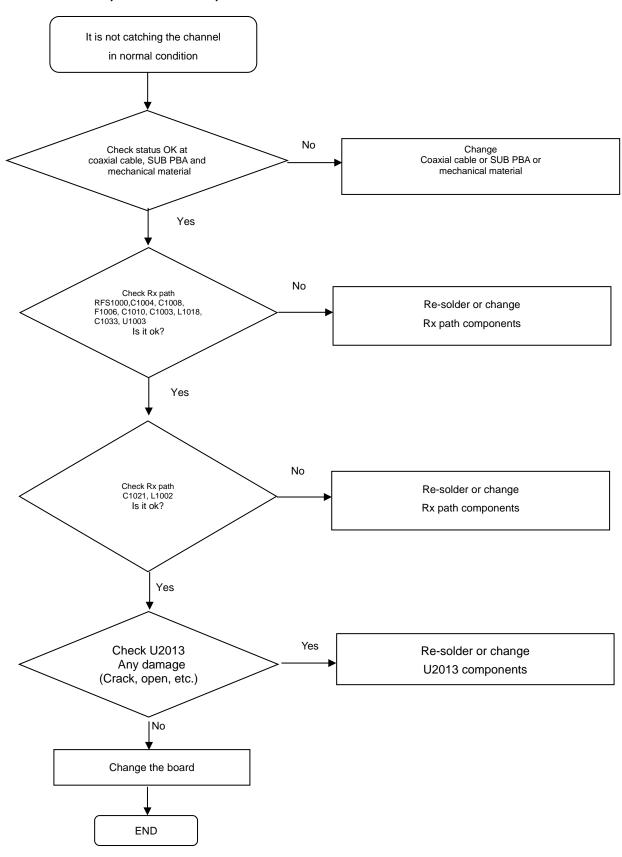
8-4-21. WCDMA B1 RX



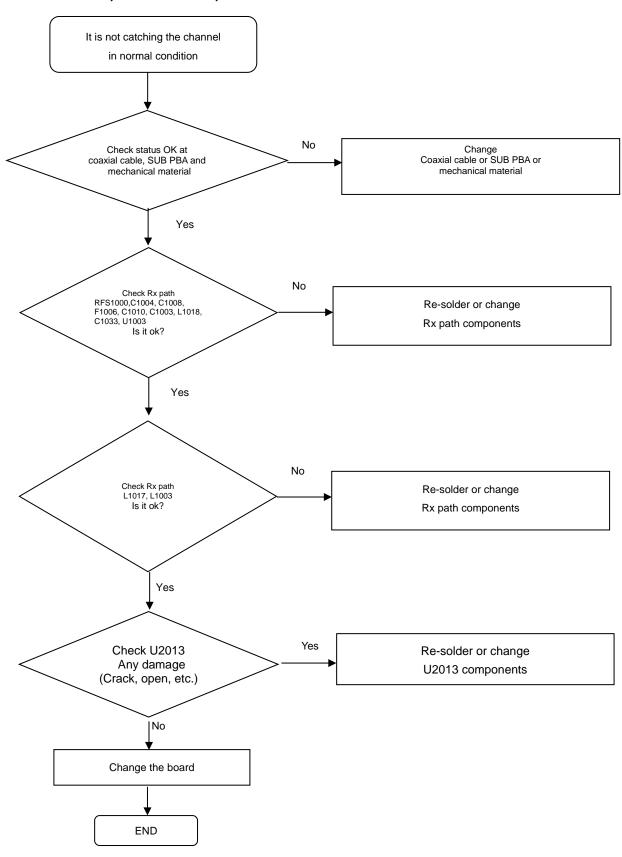
8-4-22. LTE B3, GSM 1800 RX



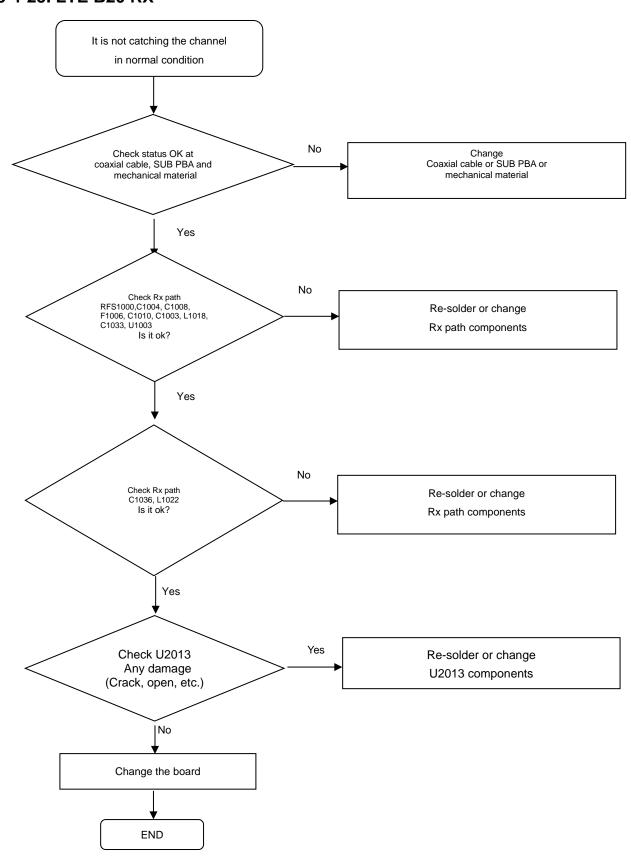
8-4-23. LTE B5, WCDMA B5, GSM850 RX



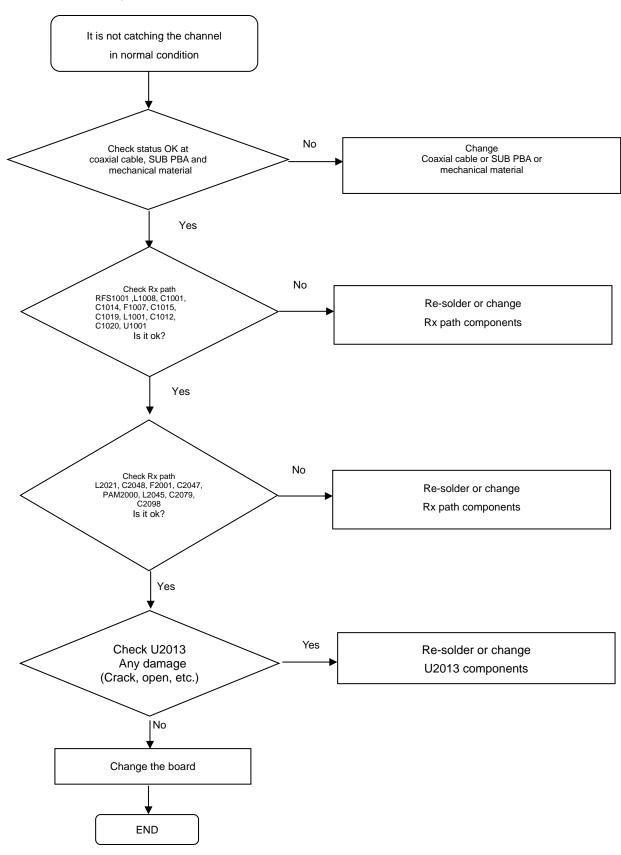
8-4-24. LTE B8, WCDMA B8, GSM900 RX



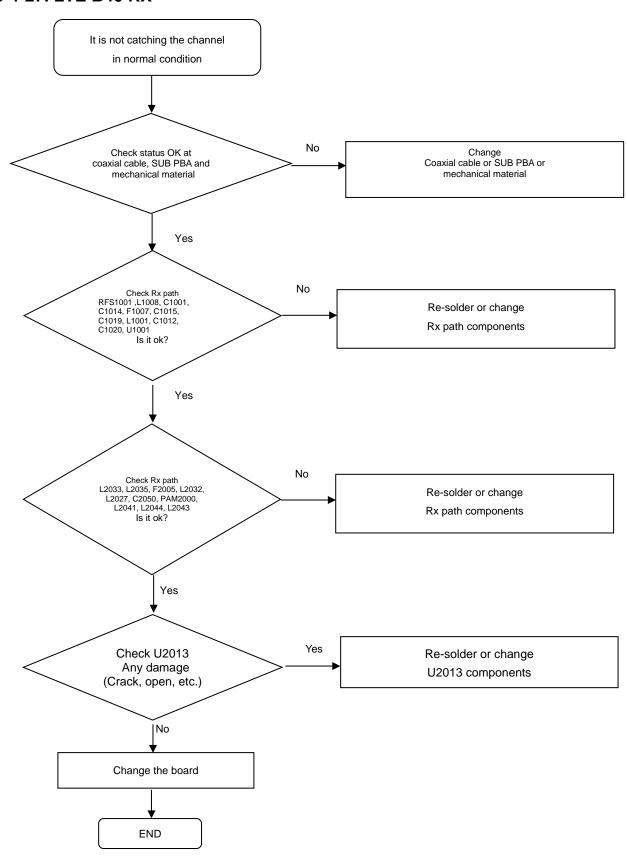
8-4-25. LTE B20 RX



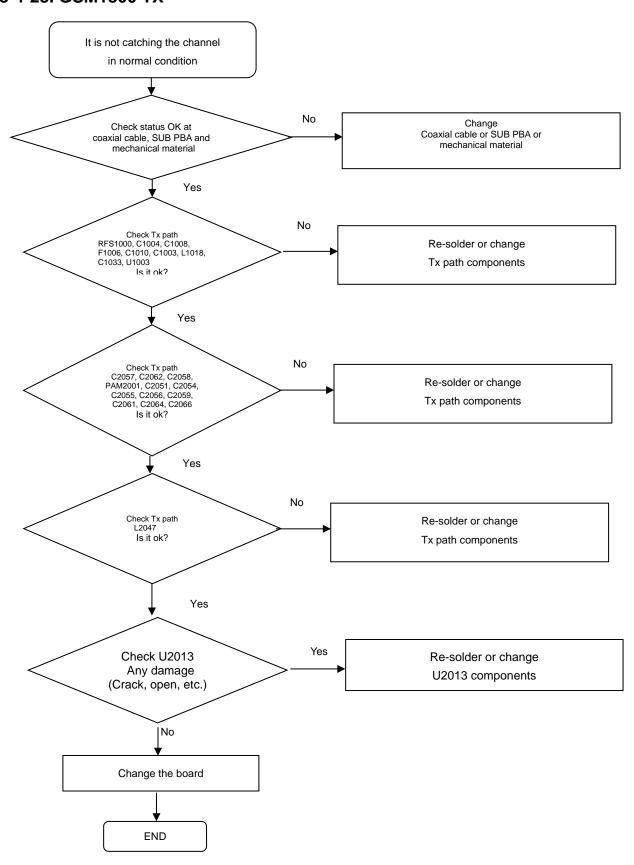
8-4-26. LTE B38, B41 RX



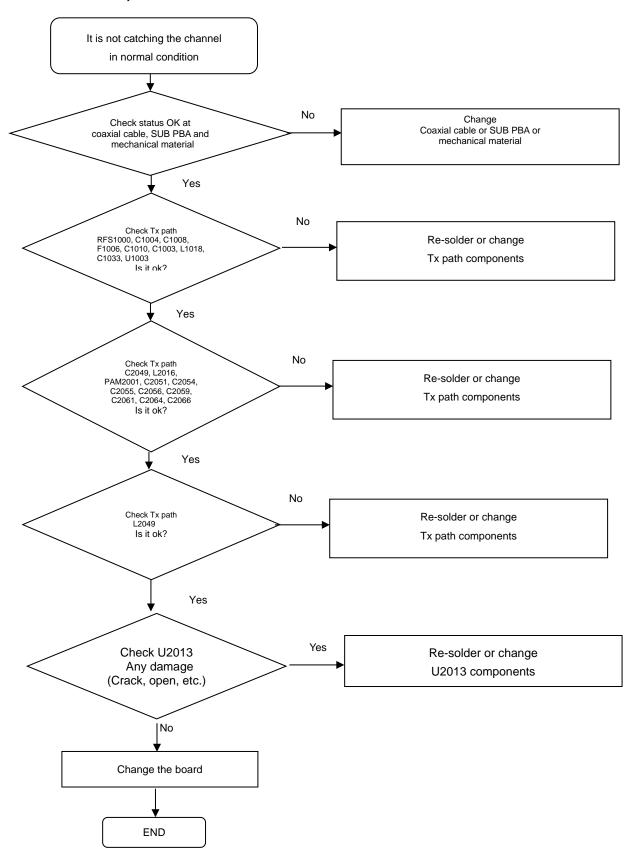
8-4-27. LTE B40 RX



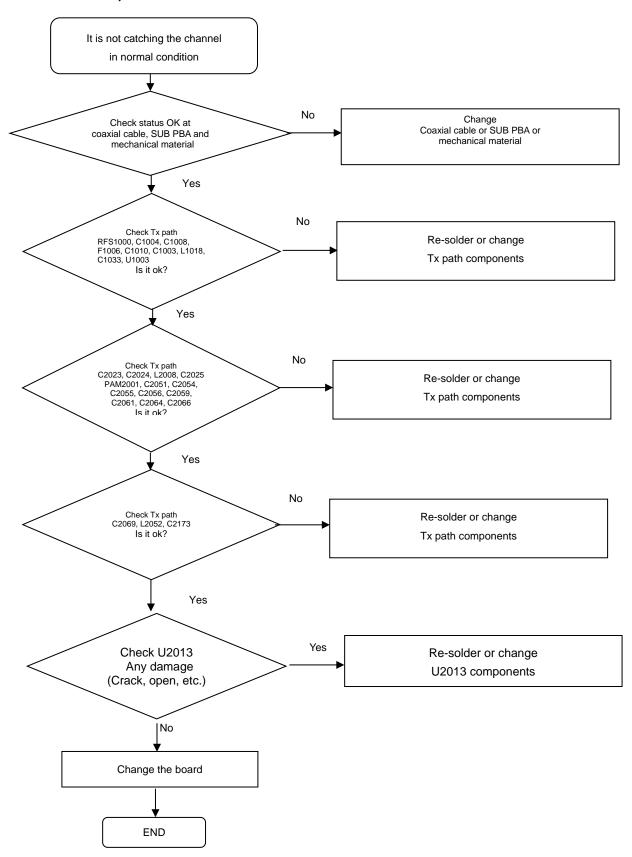
8-4-28. GSM1800 TX



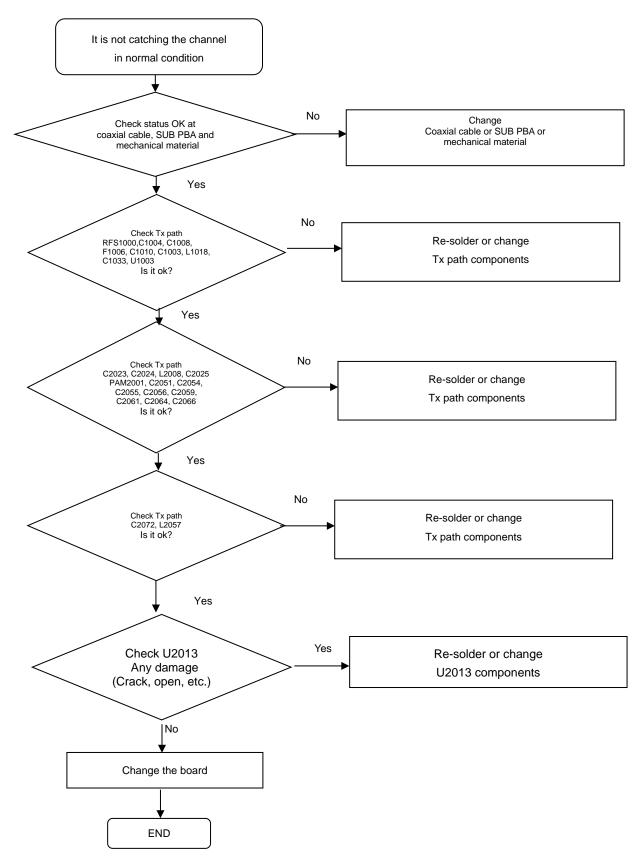
8-4-29. GSM850, GSM900 TX



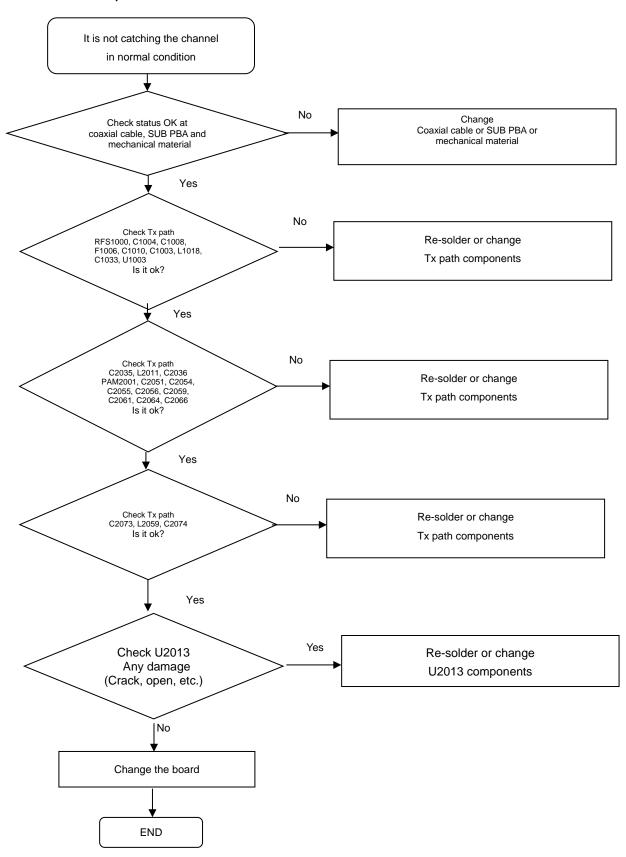
8-4-30. LTE B1, WCDMA B1 TX



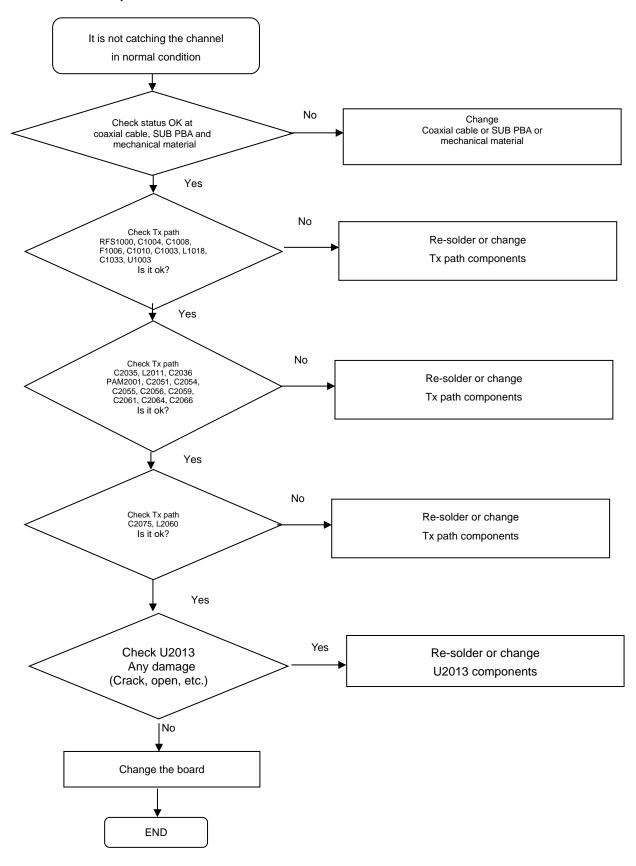
8-4-31. LTE B3 TX



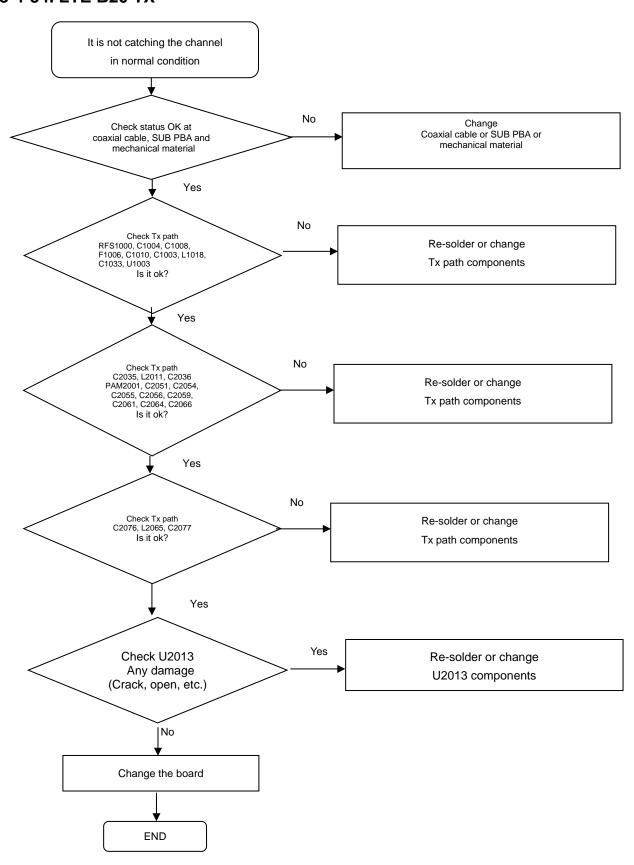
8-4-32. LTE B5, WCDMA B5 TX



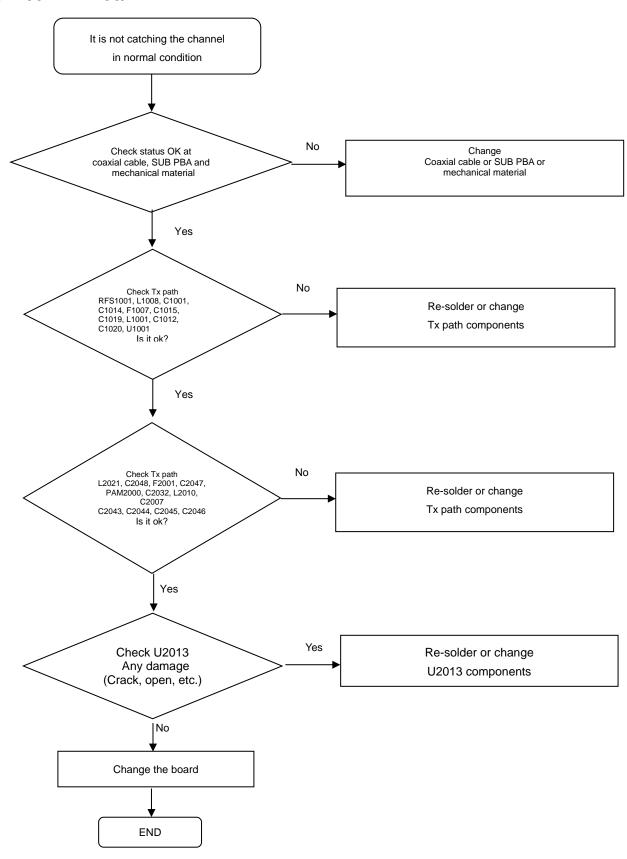
8-4-33. LTE B8, WCDMA B8 TX



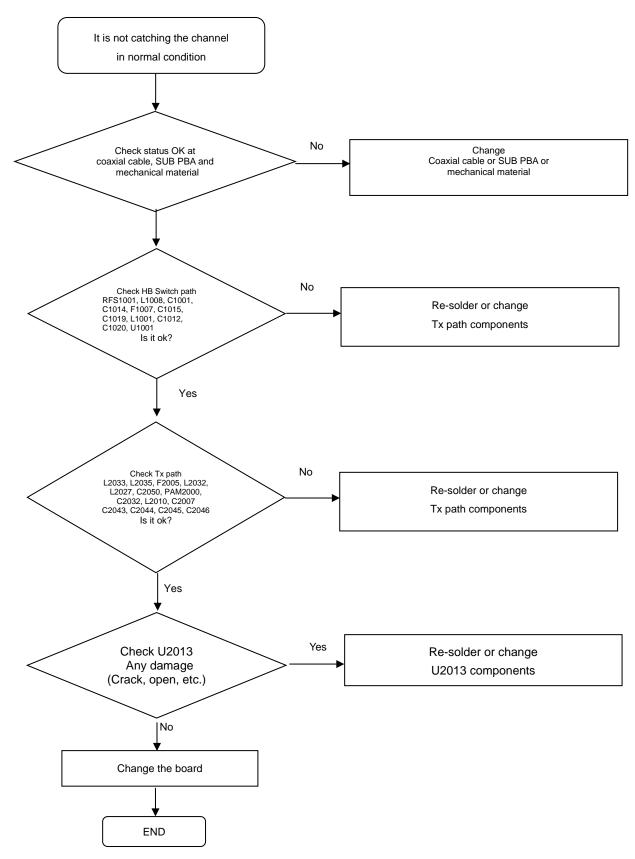
8-4-34. LTE B20 TX



8-4-35. LTE B38/B41 TX



8-4-36. LTE B40 TX



8-5. Service Schematics

- NC Point(Top View)

