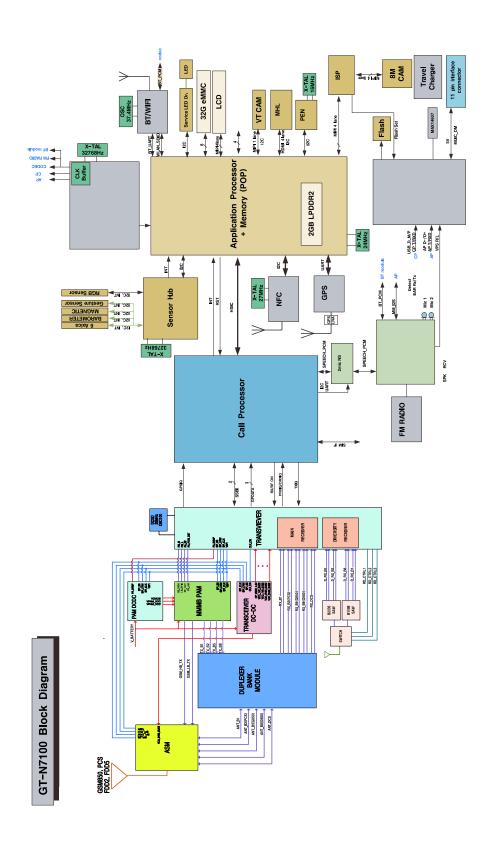
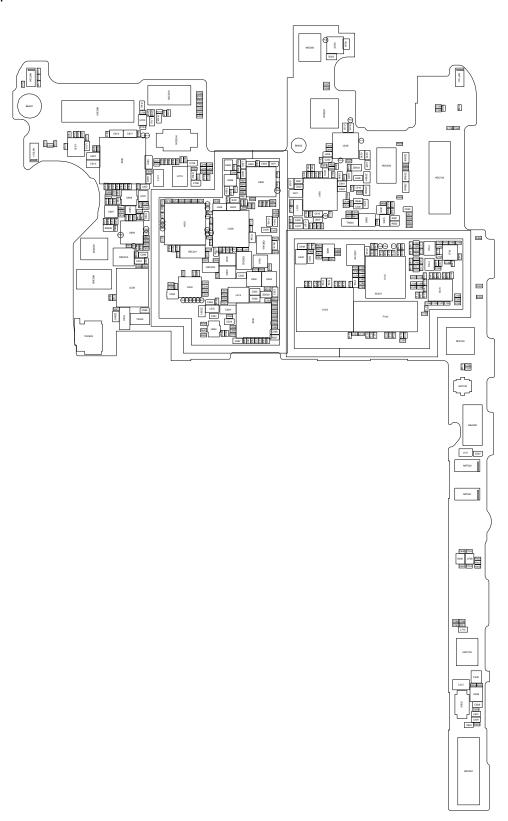
8. Level 3 Repair

8-1. Block Diagram



8-2. PCB Diagrams

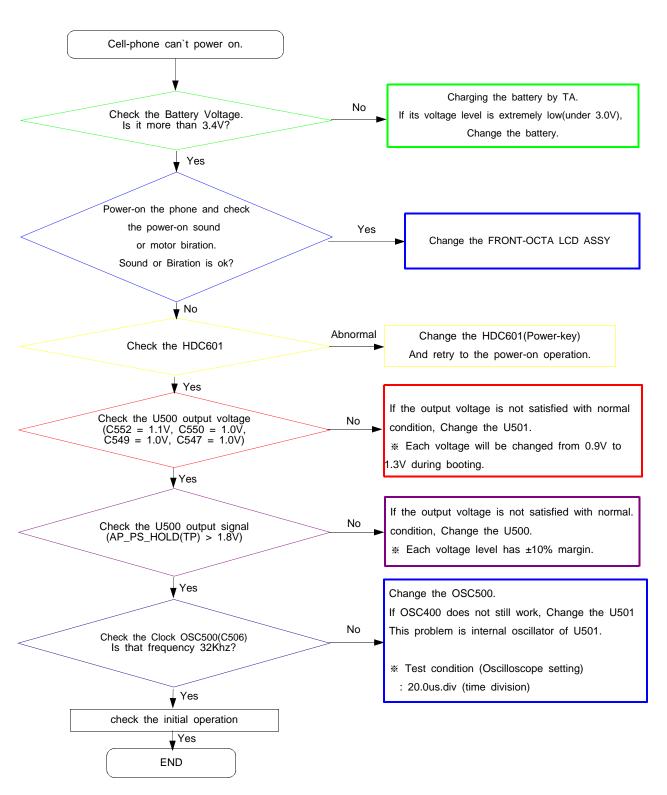
8-2-1. TOP

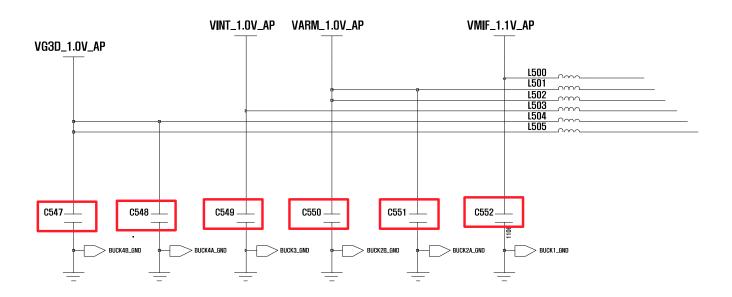


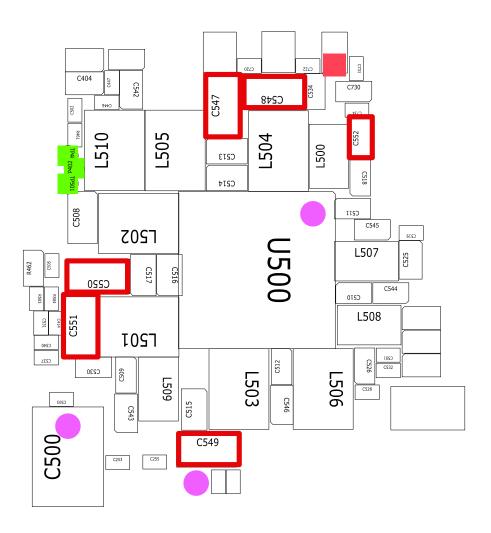
8-2-1. Bottom



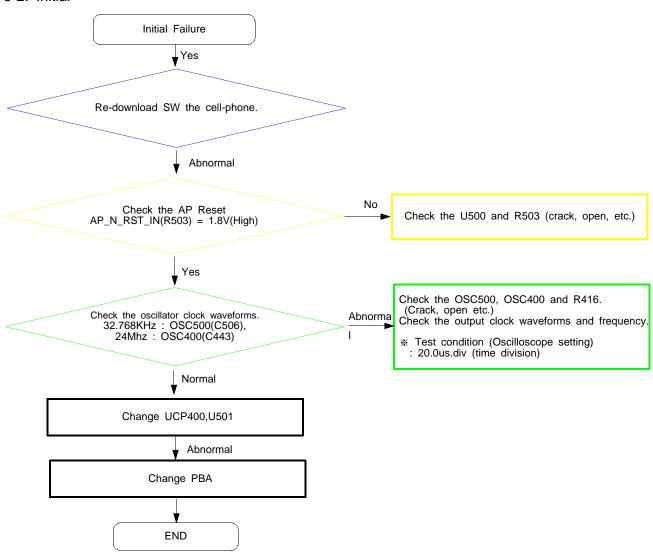
8-3-1. Power On

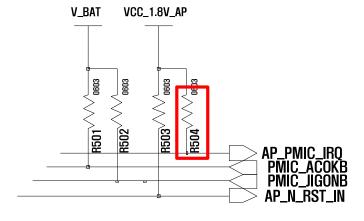




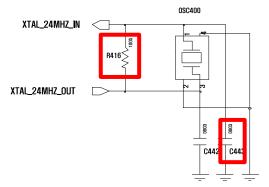


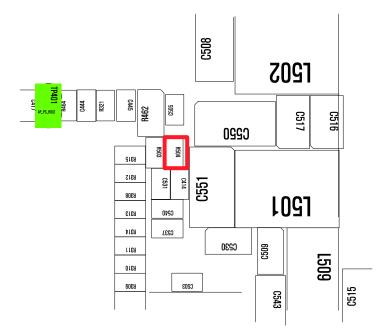
8-3-2. Initial

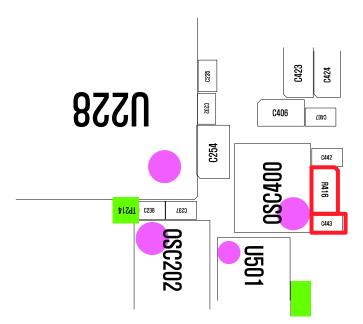




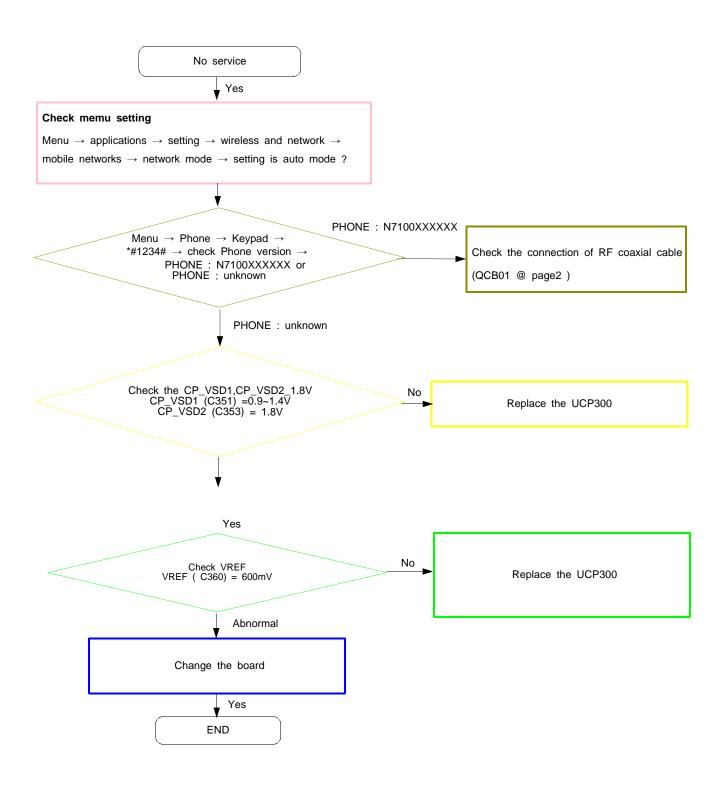
AP CLOCK

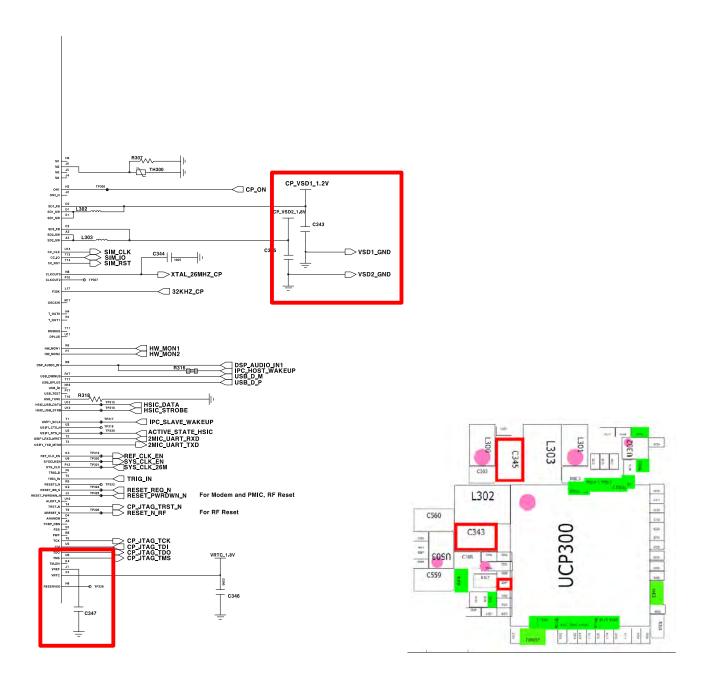




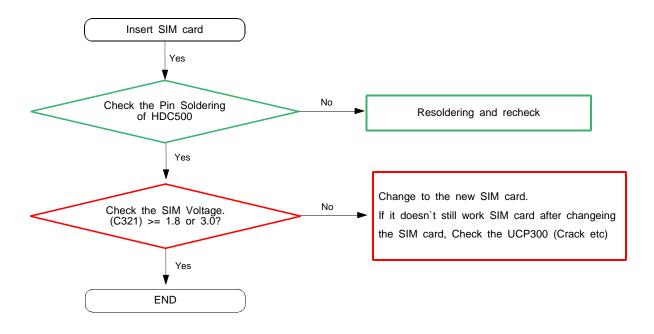


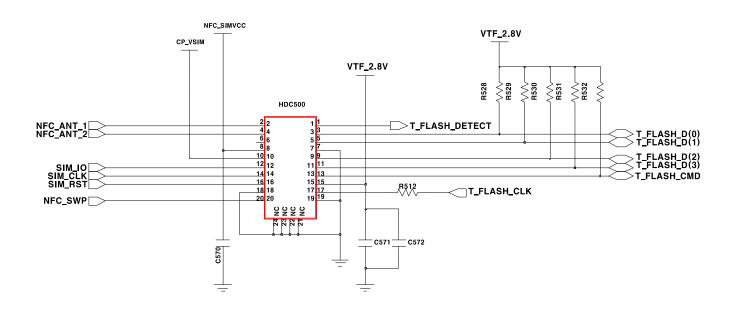
8-3-3. No Service

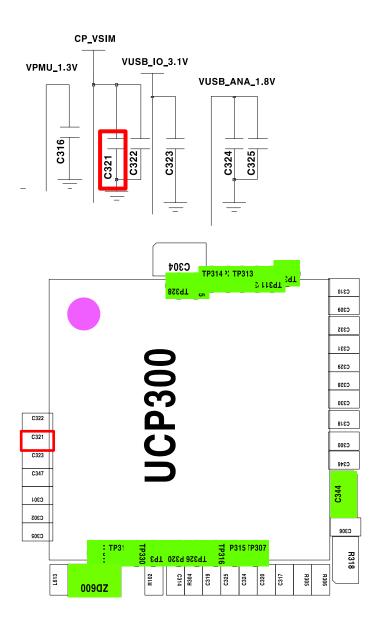




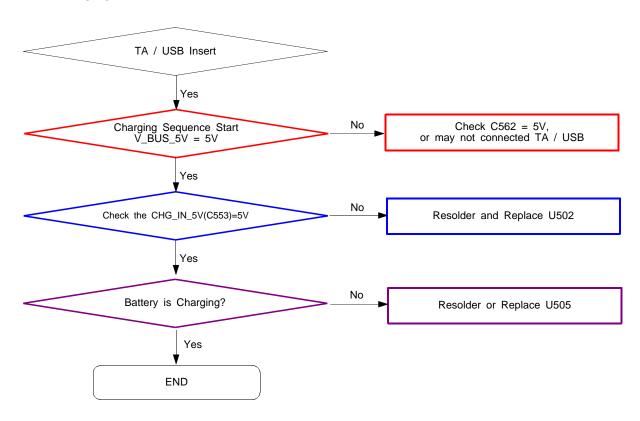
8-3-4. Sim Part

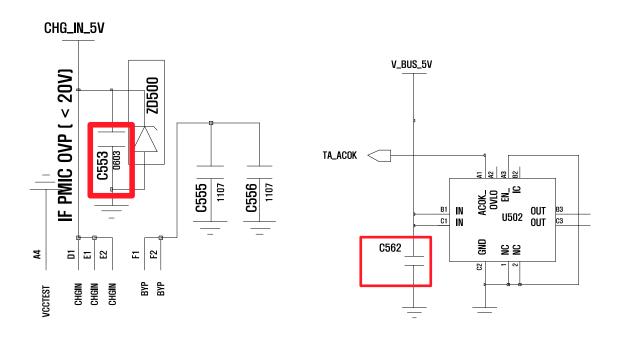


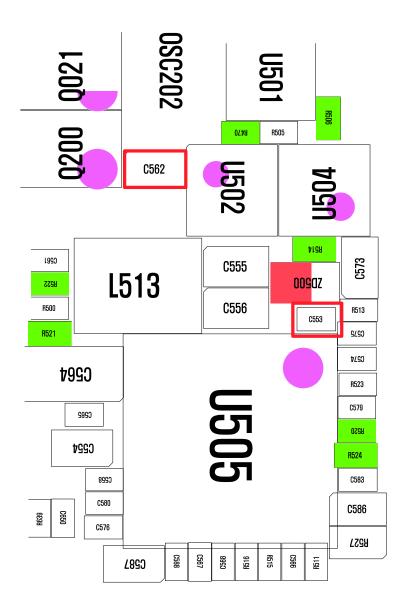




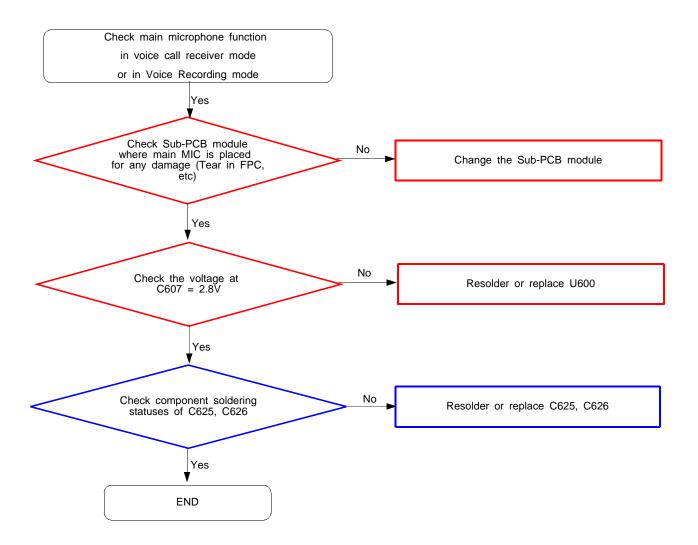
8-3-5. Charging Part

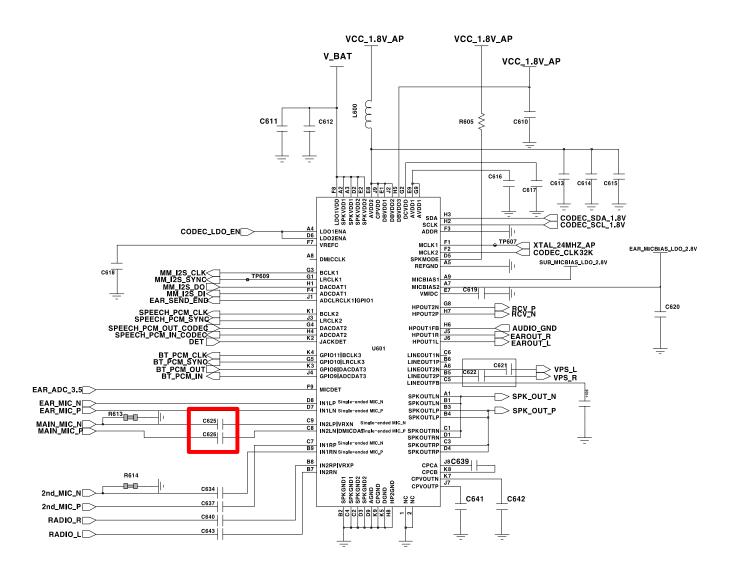


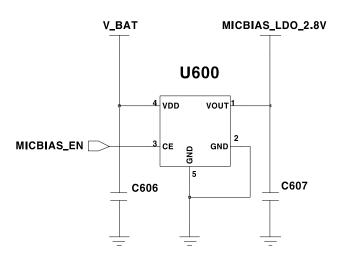




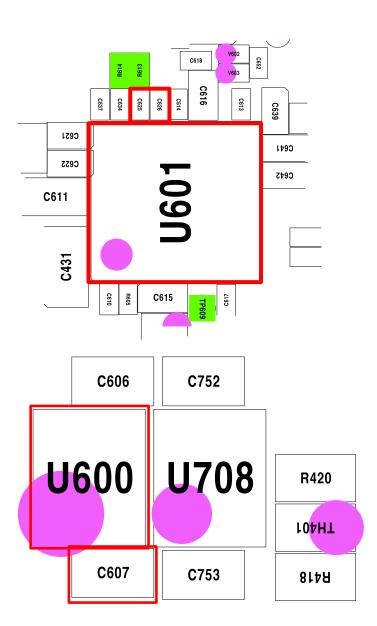
8-3-6. Microphone Part (Main MIC)



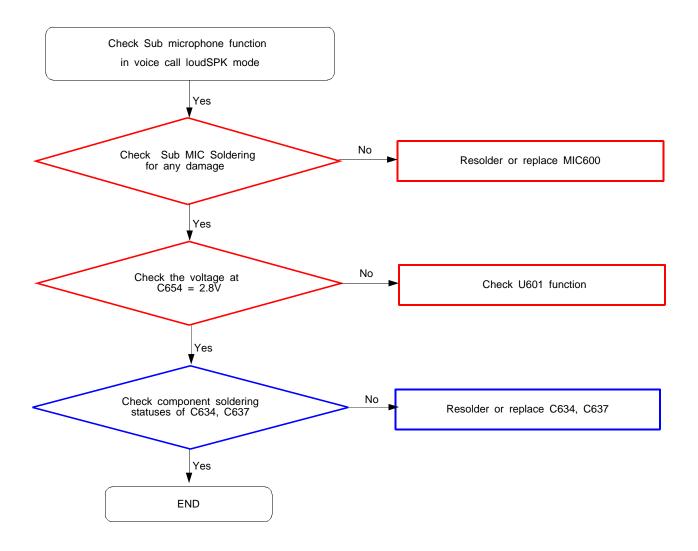


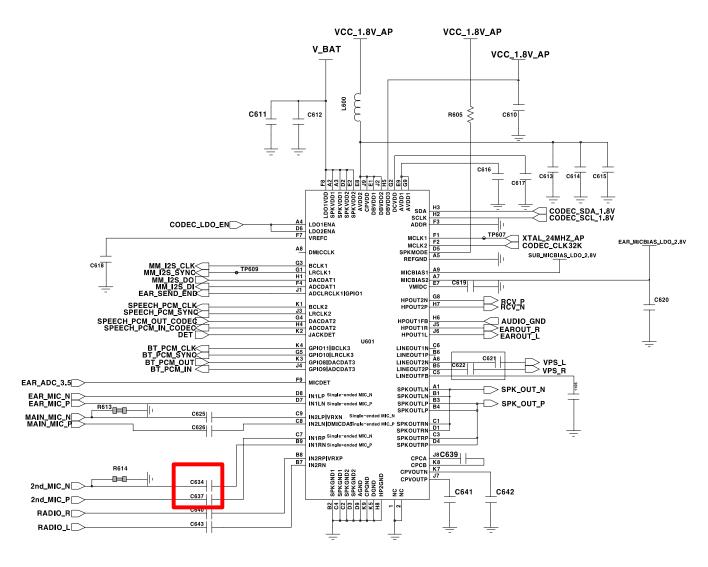


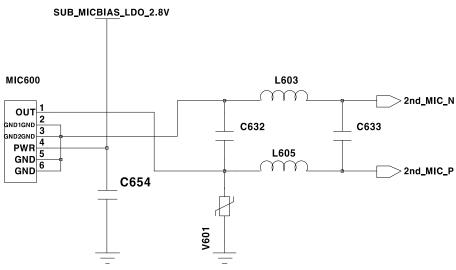
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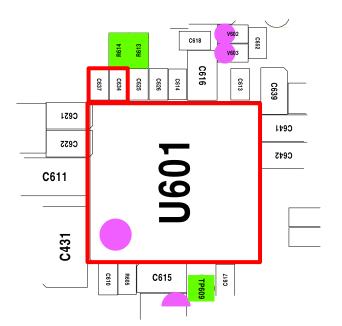


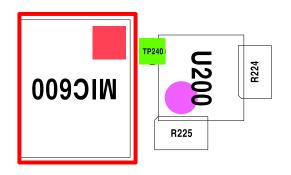
8-3-7. Microphone Part (Sub MIC)



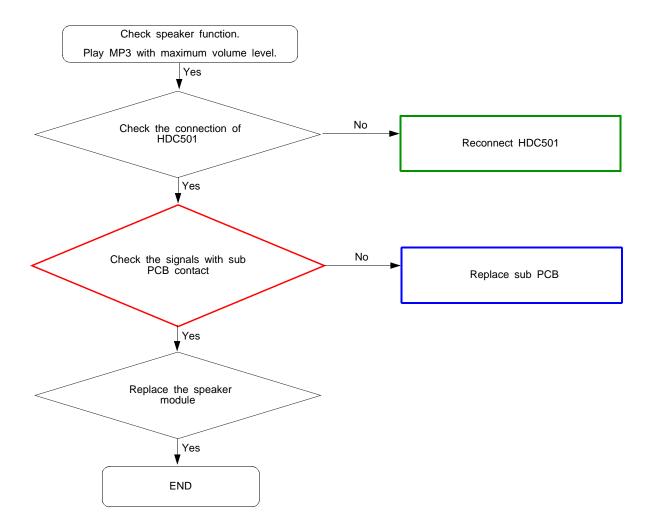


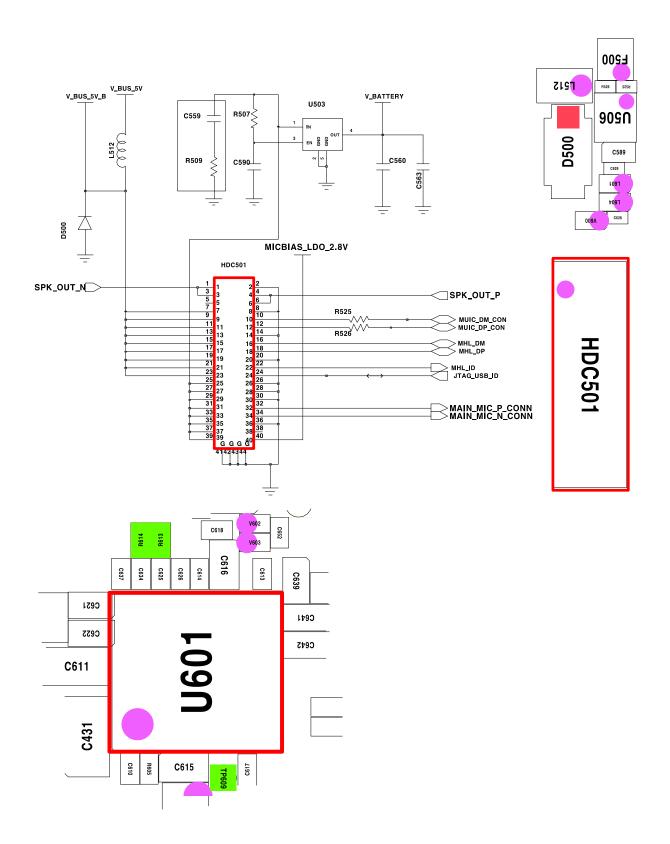




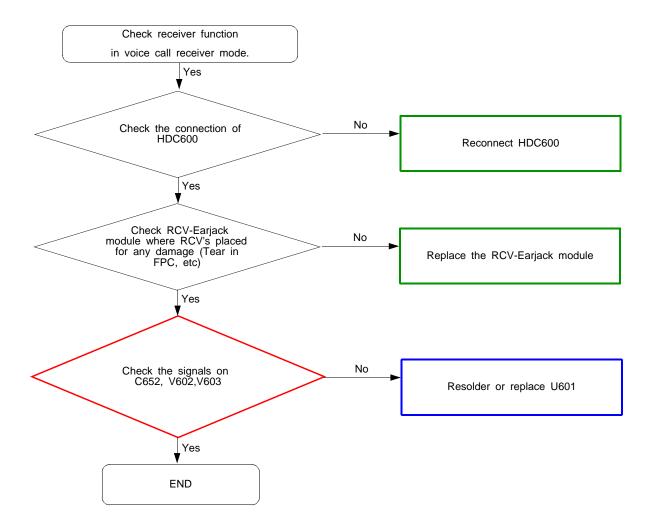


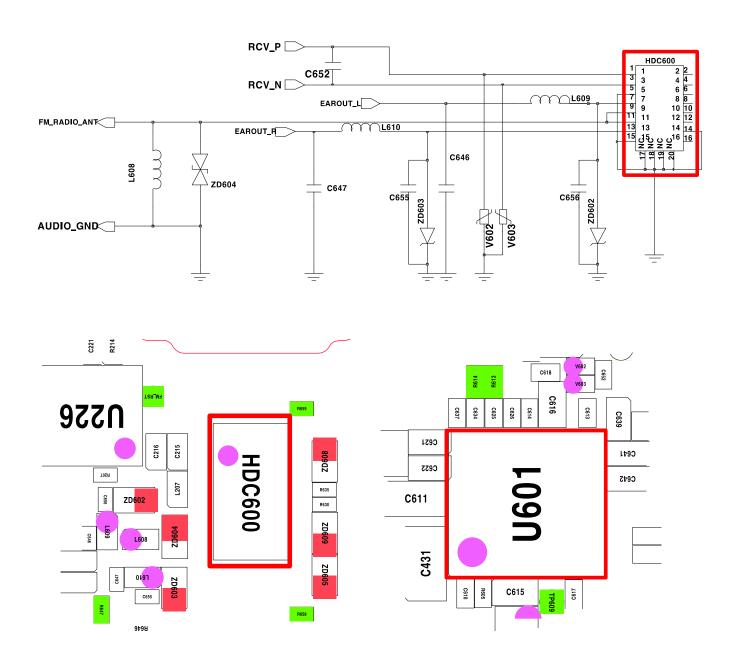
8-3-8. Speaker Part



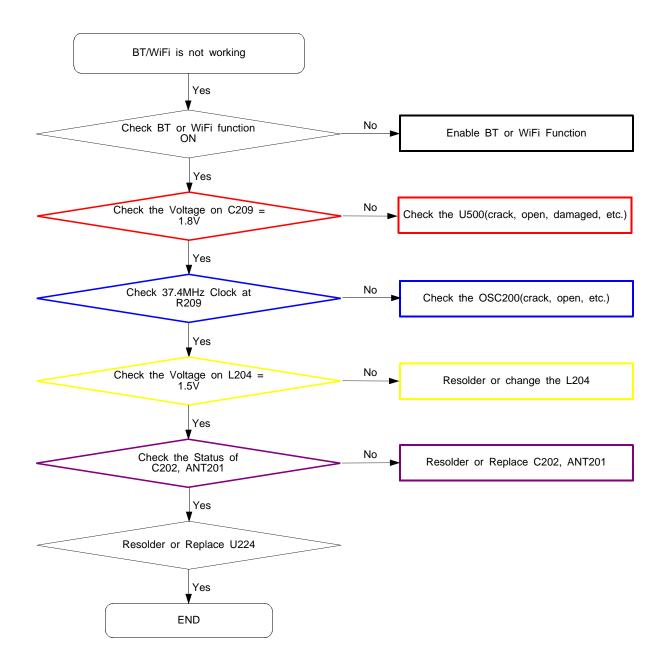


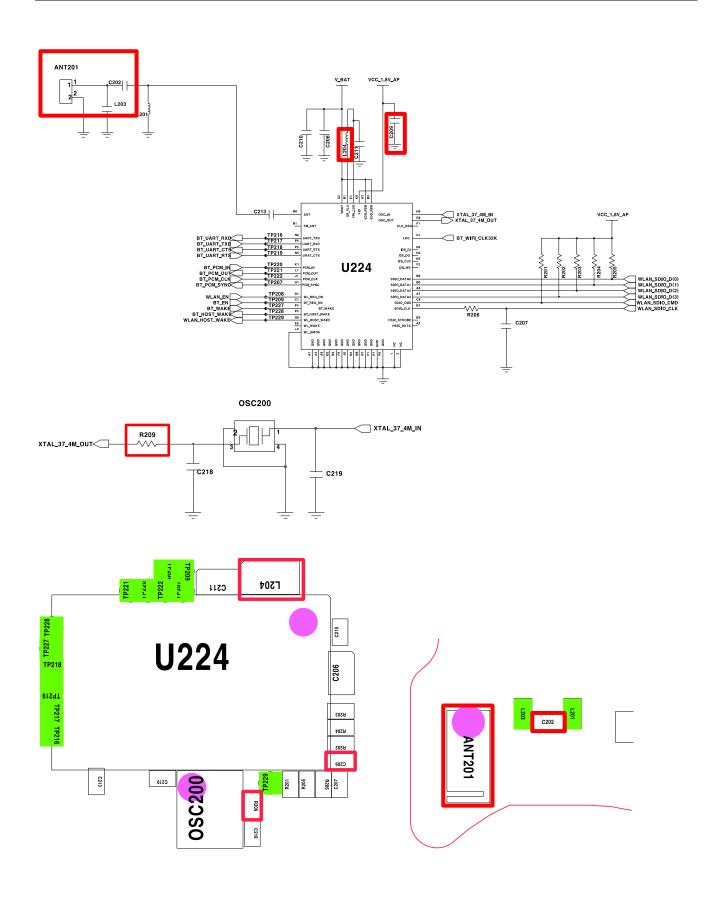
8-3-9. Receiver Part



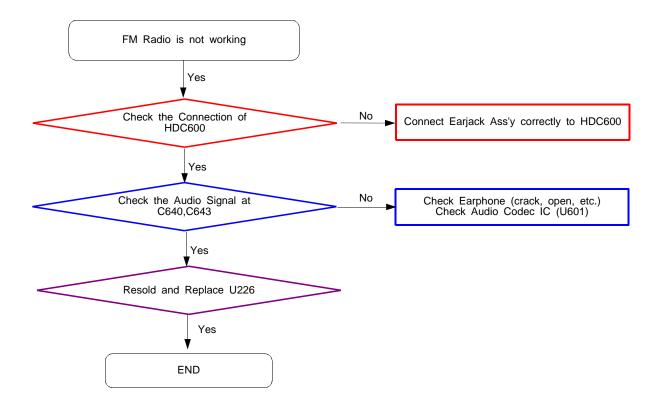


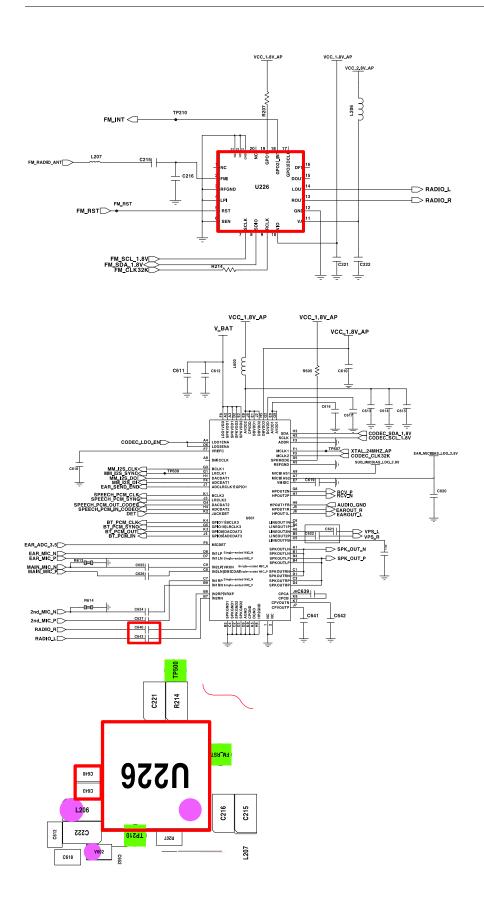
8-3-10. BT/WIFI



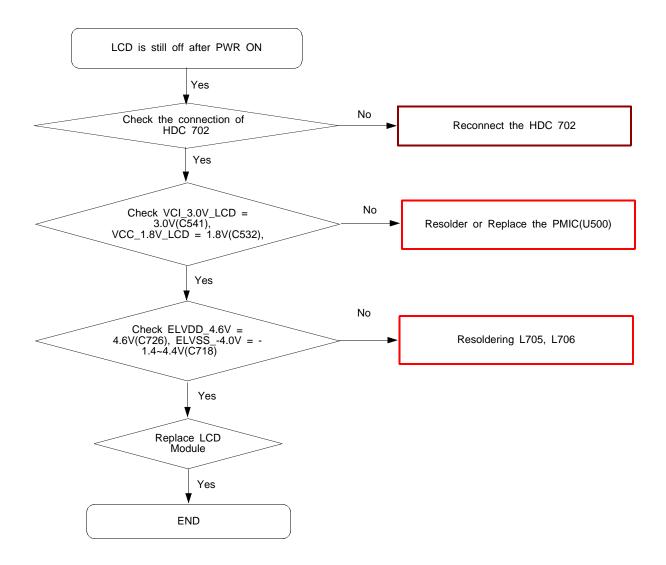


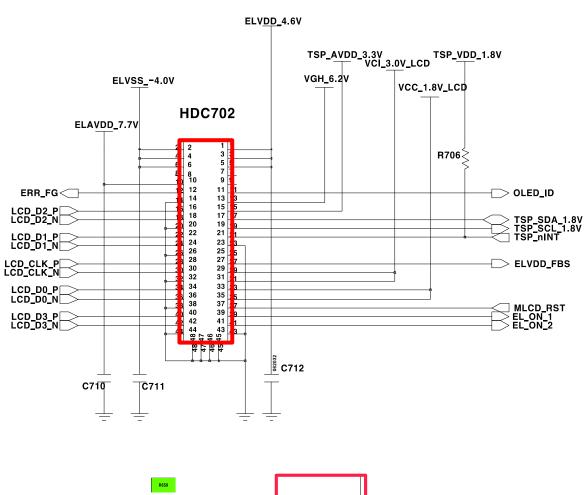
8-3-11. FM RADIO

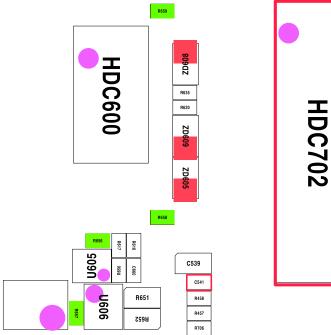


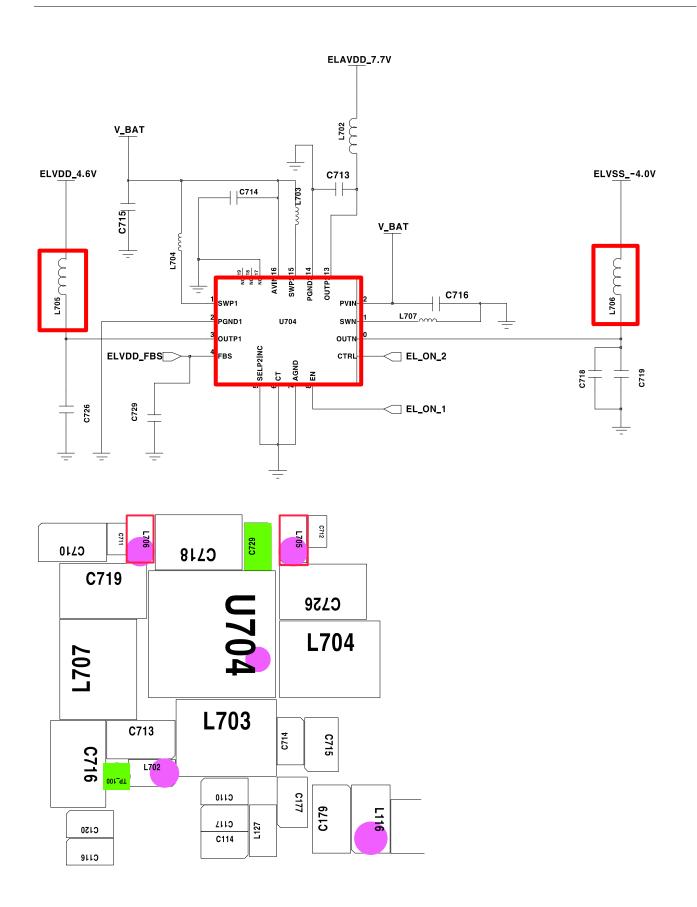


8-3-12. LCD

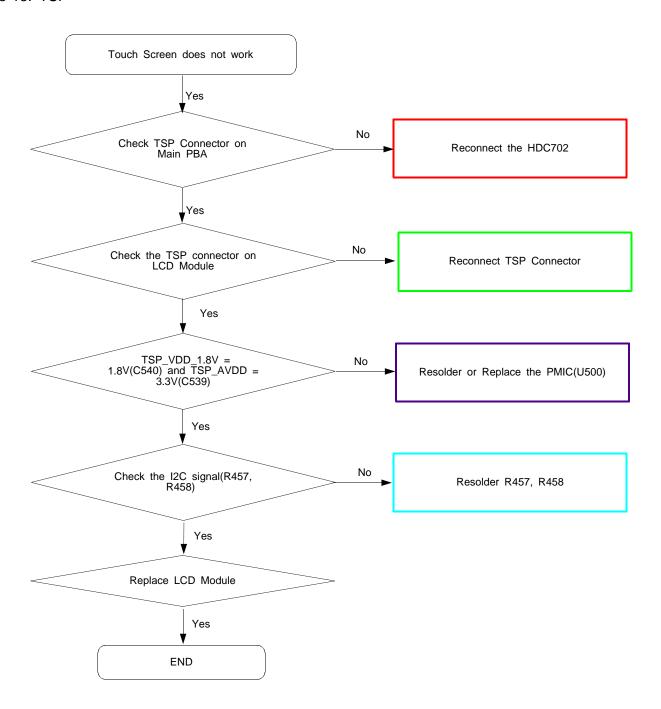


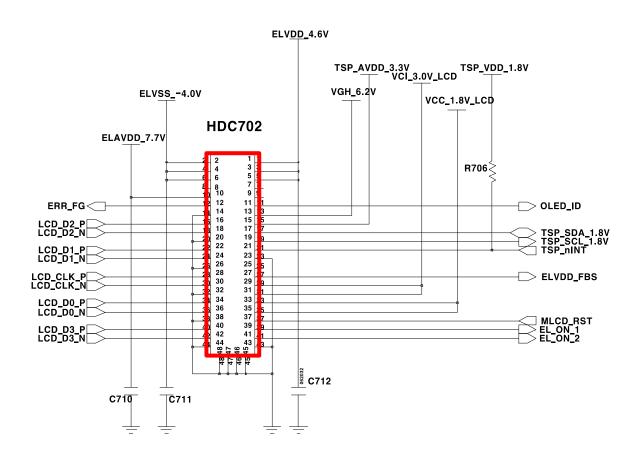


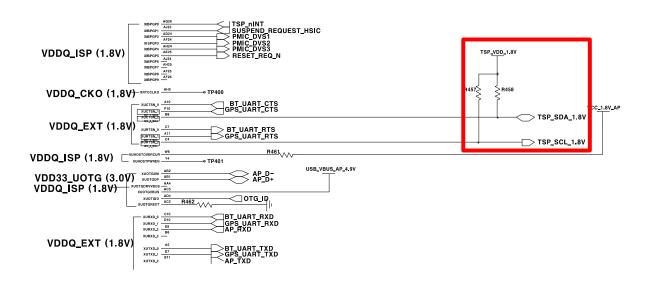




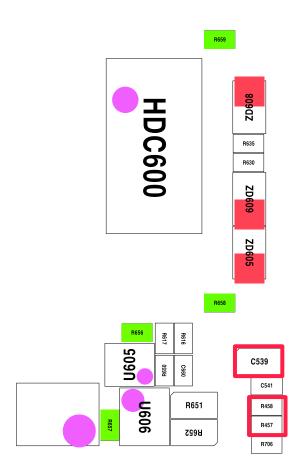
8-3-13. TSP





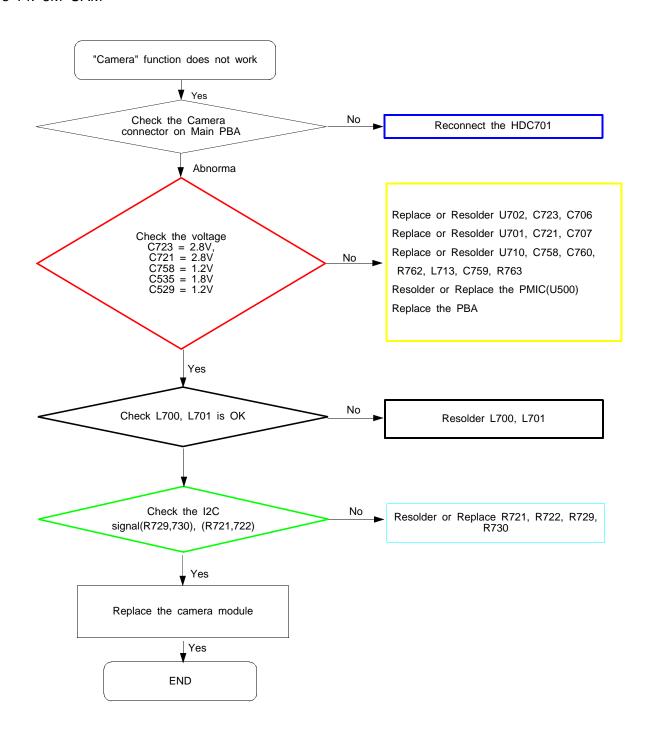


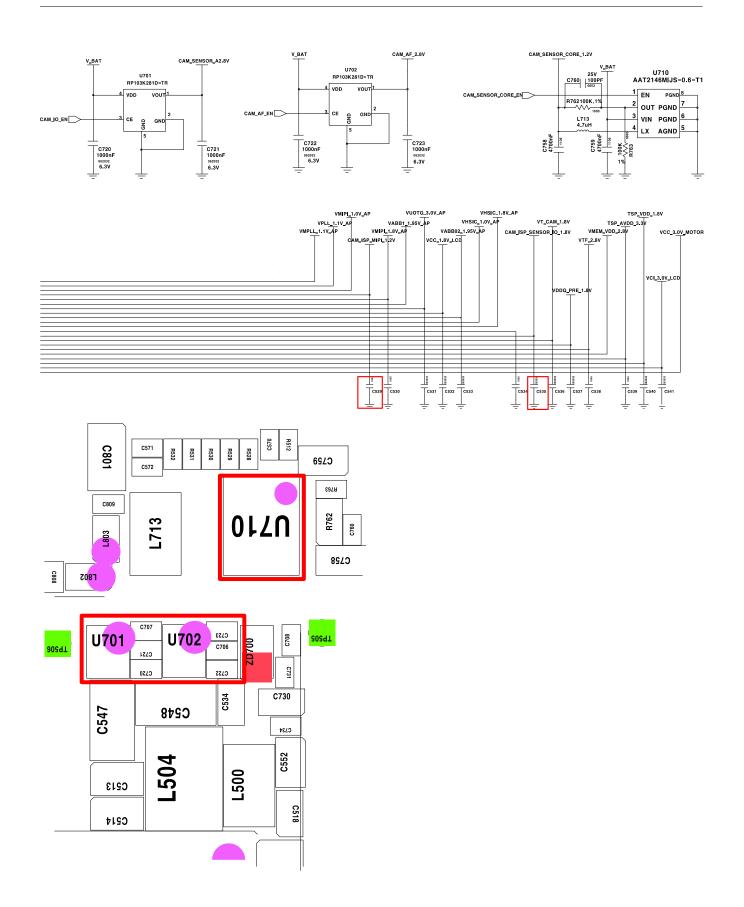
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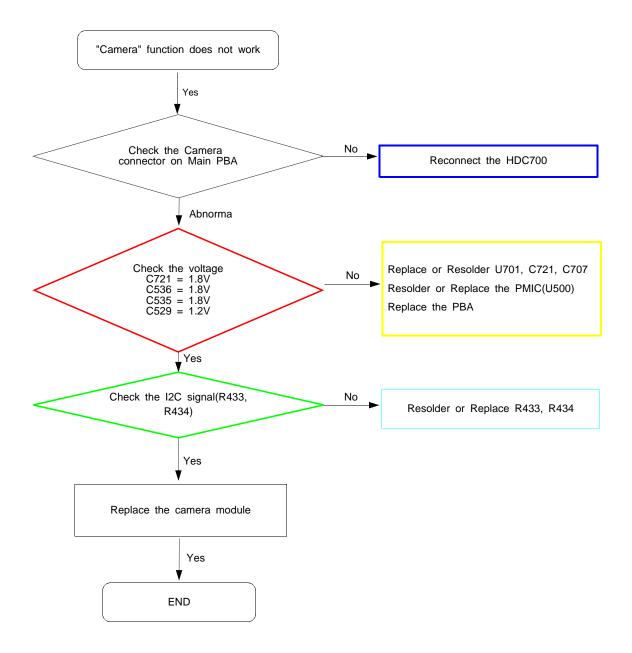


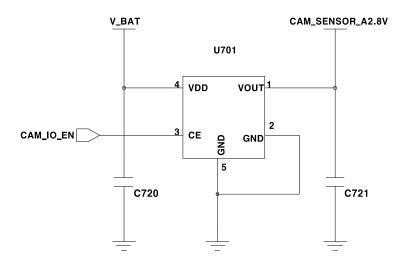
8-3-14. 8M CAM

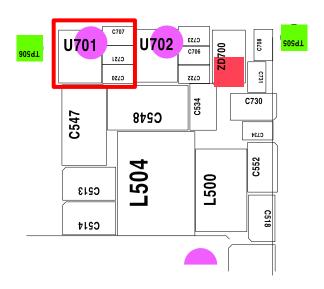


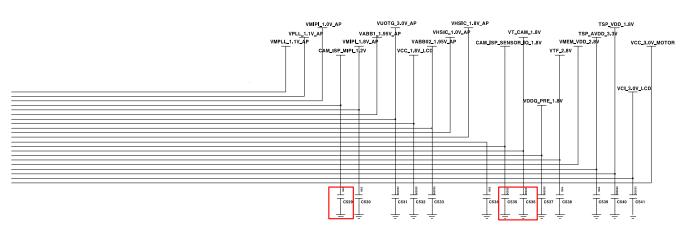


8-3-15. 2M CAM

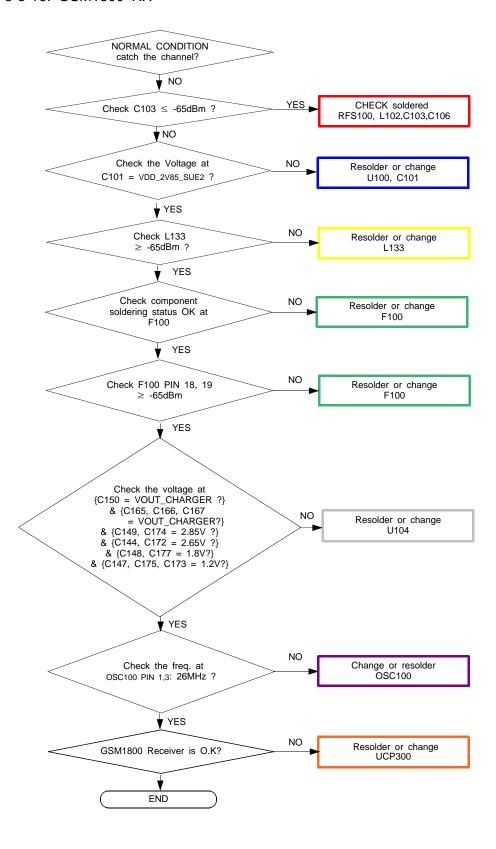


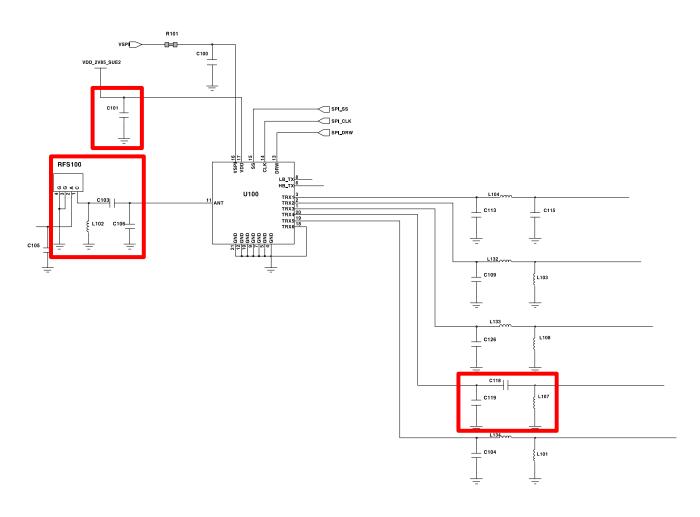


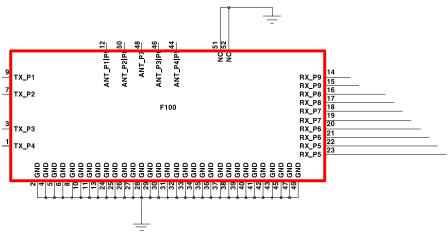


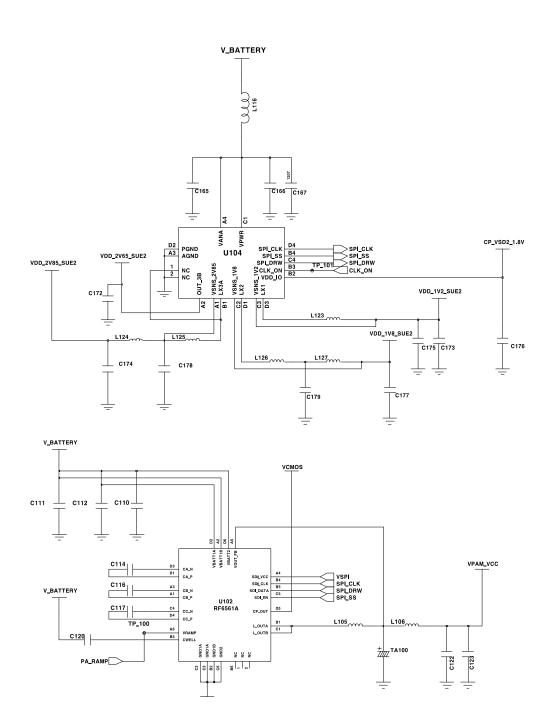


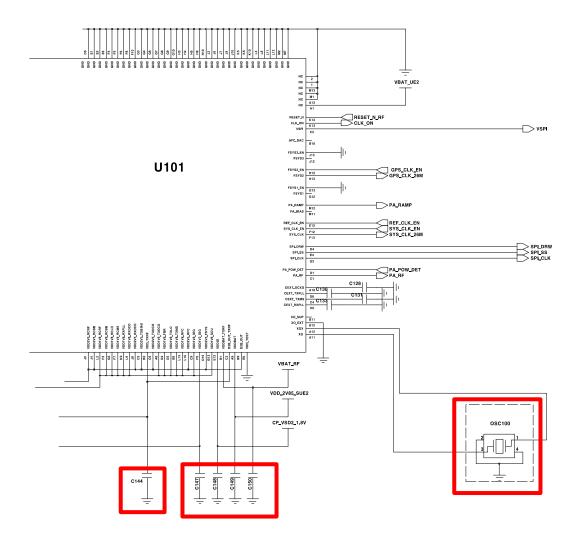
8-3-16. GSM1800 RX



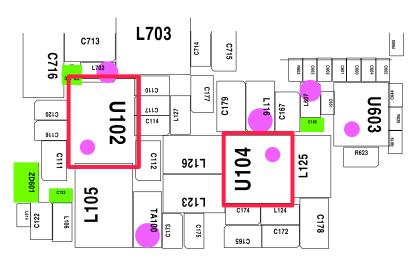




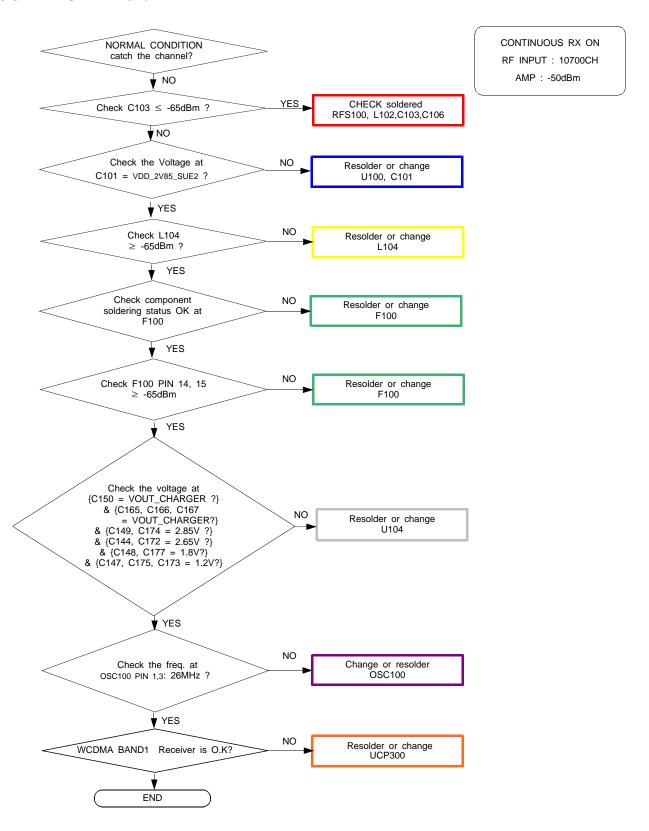


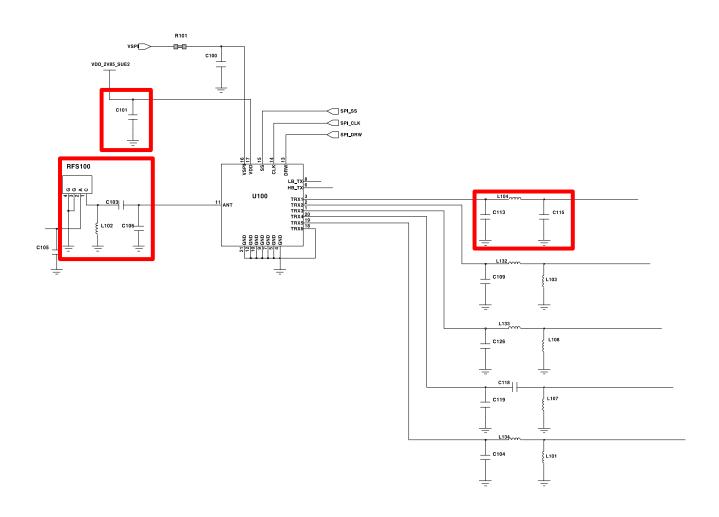


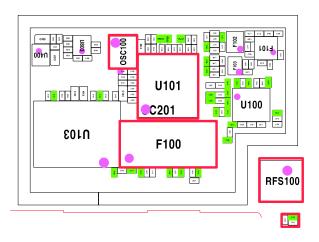


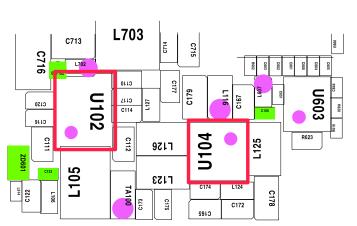


8-3-17. WCDMA Band1 RX

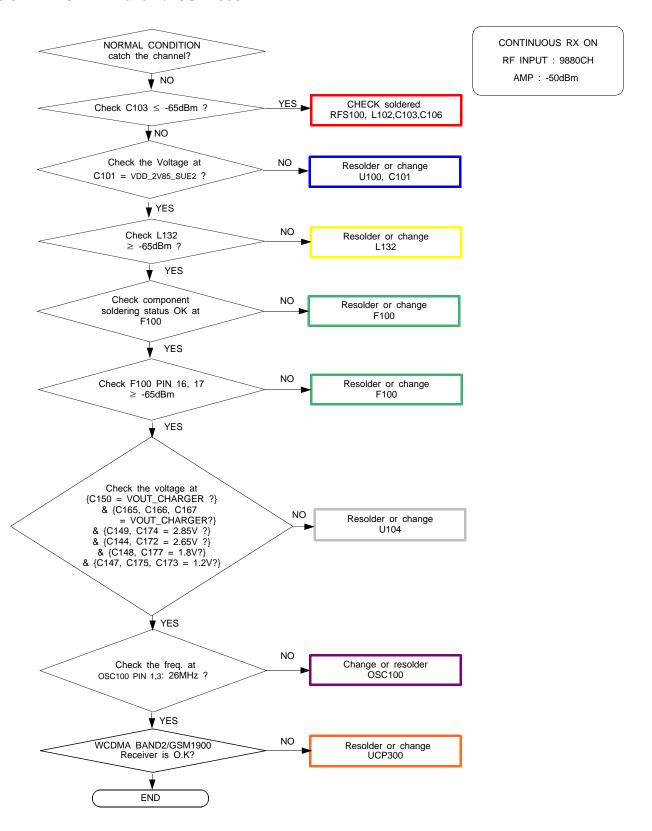


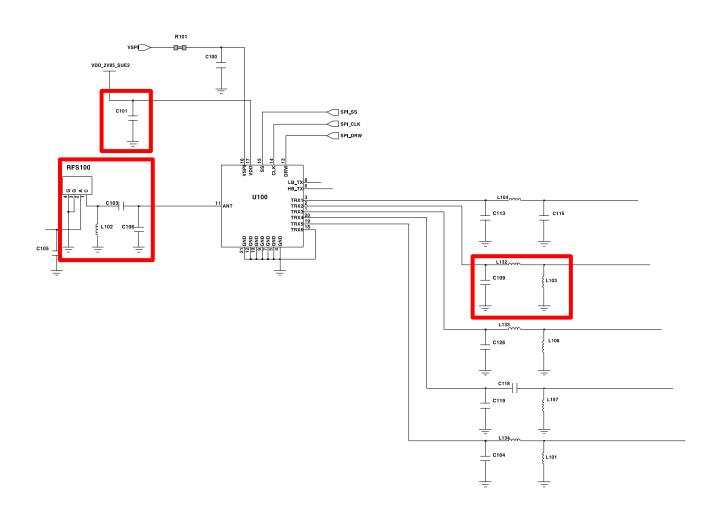




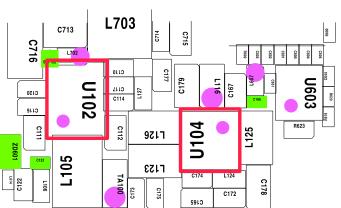


8-3-14. WCDMA Band2 / GSM1900 RX

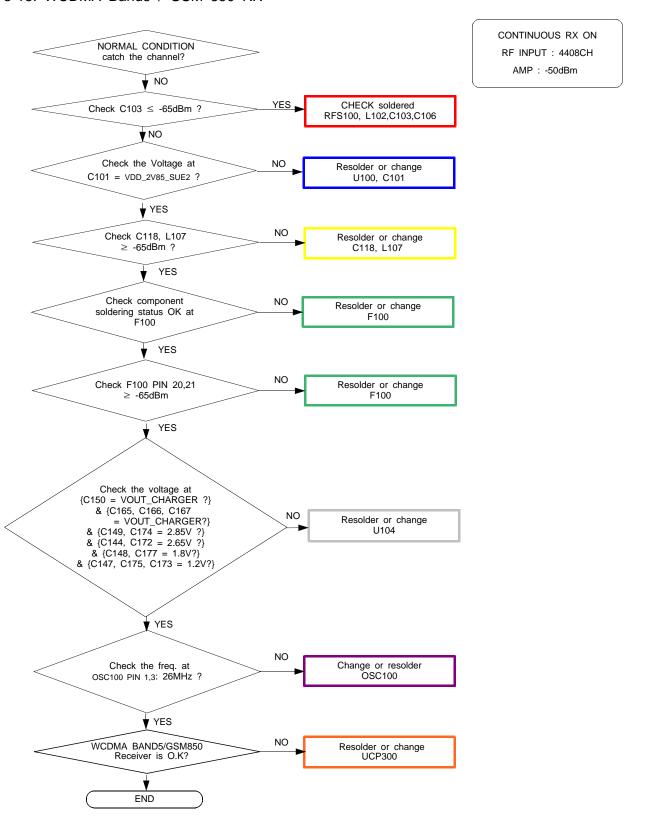


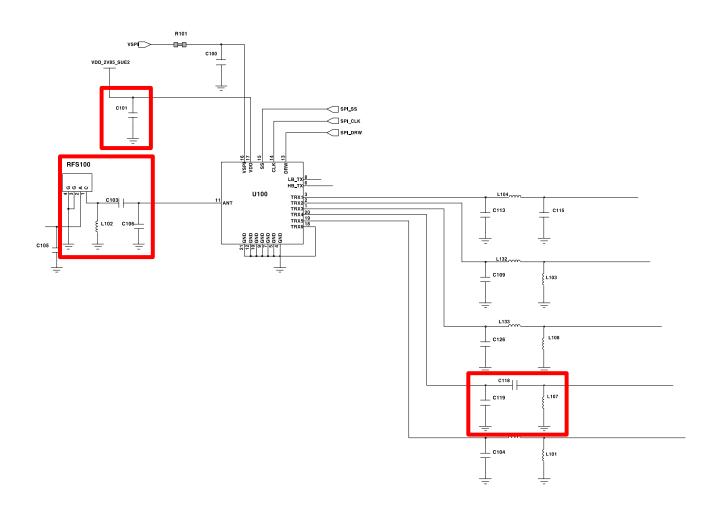




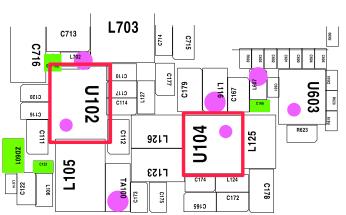


8-3-18, WCDMA Band5 / GSM 850 RX

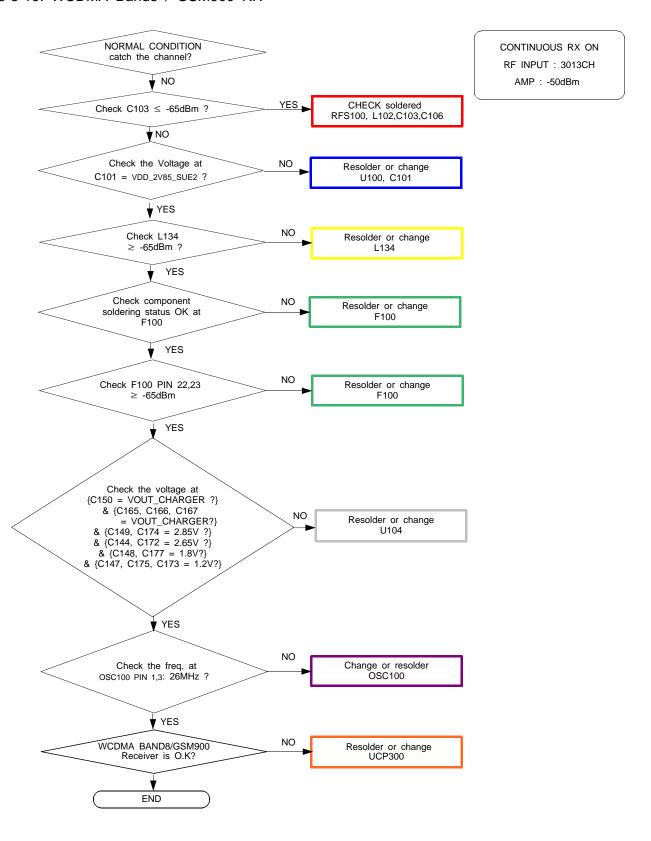


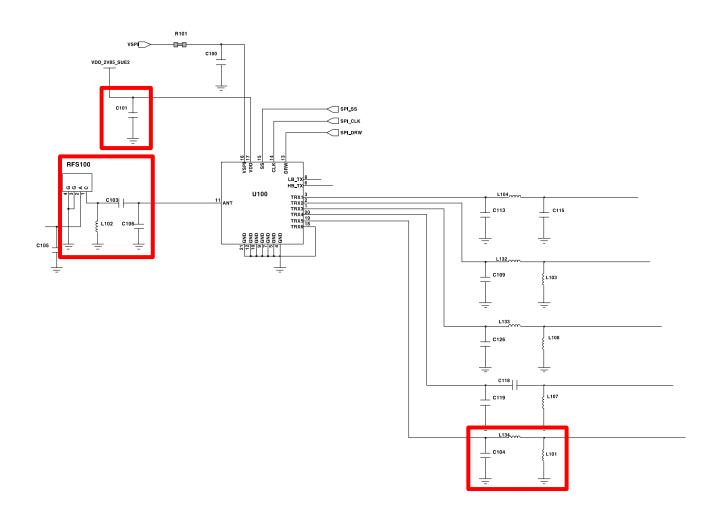


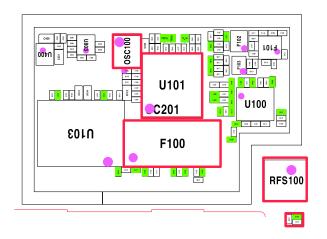


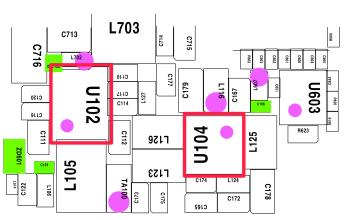


8-3-19. WCDMA Band8 / GSM900 RX

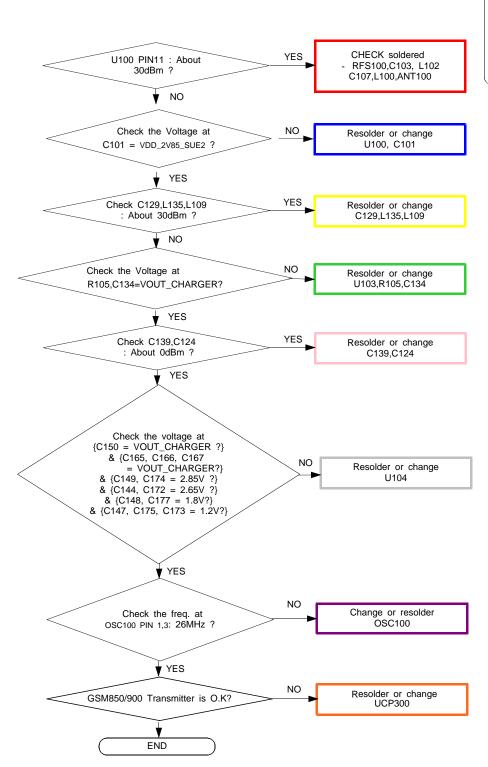




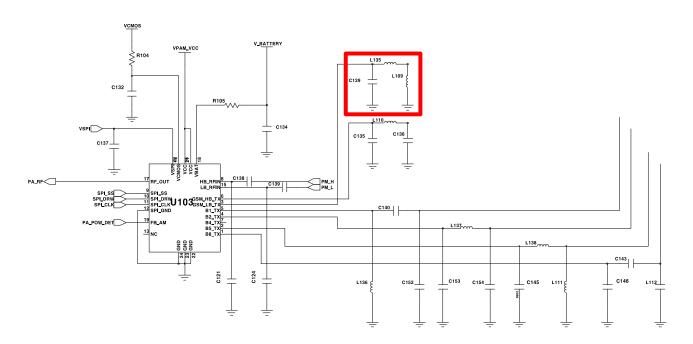


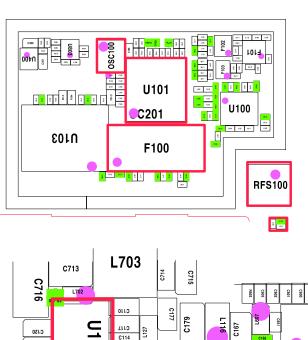


8-3-20. GSM850/GSM900 TX



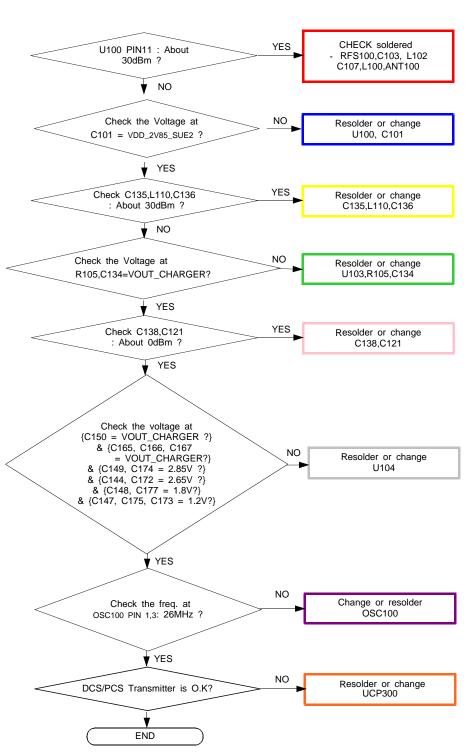
CONTINOUS TX ON CONDITION
TX POWER DAC:14500 CODE
APPLIED
GSM850 CH: 190
GSM900 CH: 62
RBW: 100KHz
VBW: 100KHz
SPAN: 10MHz
REF LEV: 10dBm
ATT.: 20dB

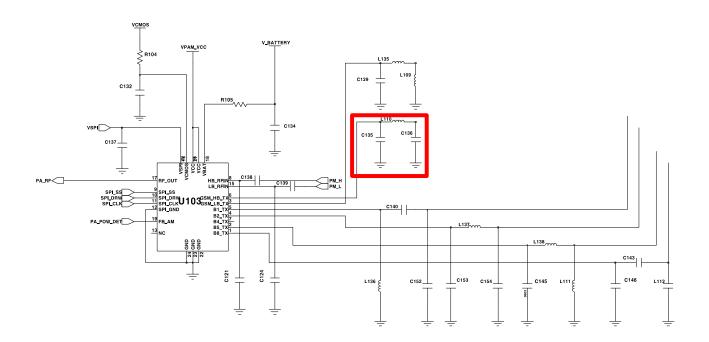


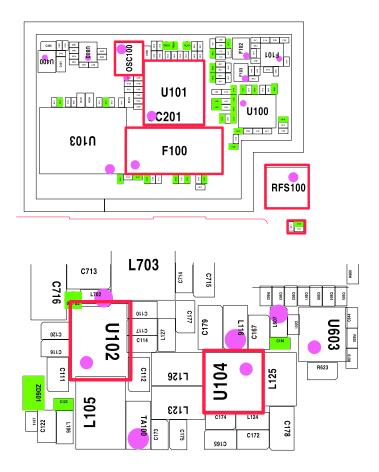


CONTINOUS TX ON CONDITION
TX POWER DAC:14500 CODE
APPLIED
DCS CH: 685
PCS CH: 661
RBW: 100KHz
VBW: 100KHz
SPAN: 10MHz
REF LEV.: 10dBm
ATT.: 20dB

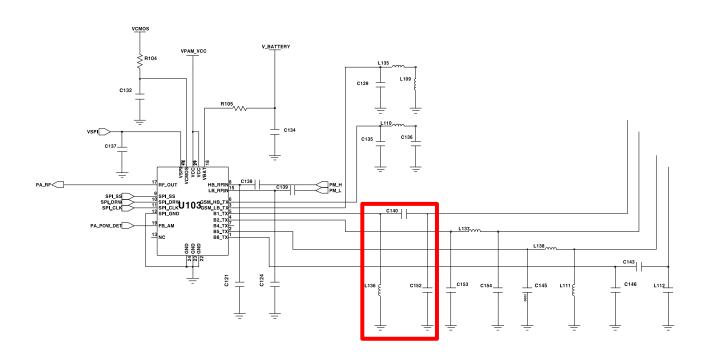
8-3-21. DCS/PCS TX

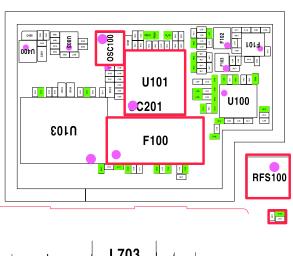


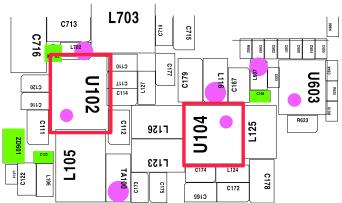




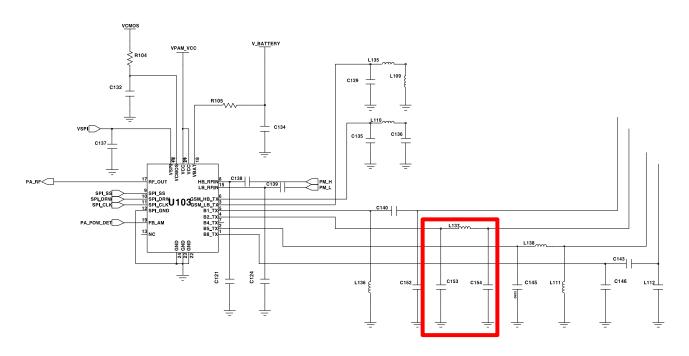
8-3-22. WCDMA BAND1 TX CONTINOUS TX ON CONDITION TX POWER DAC:14500 CODE APPLIED APPLIED WCDMA Band1 CH: 10700 RBW: 100KHz VBW: 100KHz SPAN: 10MHz REF LEV: 10dBm ATT.: 20dB CHECK soldered YES U100 PIN11 : About RFS100,C103, L102 30dBm ? C107,L100,ANT100 **▼** NO NO Check the Voltage at Resolder or change $C101 = VDD_2V85_SUE2$? U100, C101 ▼ YES YES Check L104: Resolder or change About 22dBm ? L104 **▼** NO Check component NO Resolder or change soldering status OK at F100 F100 YES YES Check C140,L136: Resolder or change C140,L136 About 22dBm ? NO NO Check the Voltage at Resolder or change U103, R105,C134 R105,C134=VOUT_CHARGER? YES YES Check C138, C121 Resolder or change About 0dBm ? C138, C121 YES Check the voltage at {C150 = VOUT_CHARGER ?} C150 = VOUT_CHARGER ? & {C165, C166, C167 = VOUT_CHARGER?} & {C149, C174 = 2.85V ?} & {C144, C172 = 2.65V ?} NO Resolder or change U104 & {C148, C177 = 1.8V?} & {C147, C175, C173 = 1.2V?} YES. NO Check the freq. at Change or resolder OSC100 PIN 1,3: 26MHz ? OSC100 ▼ YES NO Resolder or change UCP300 WCDMA BAND1 Transmitter is O.K? END

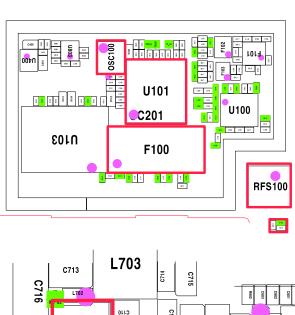




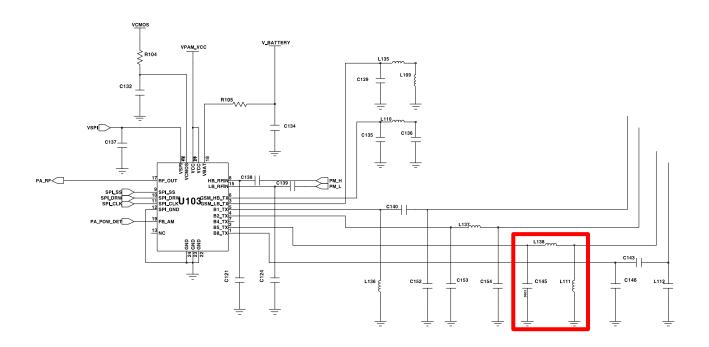


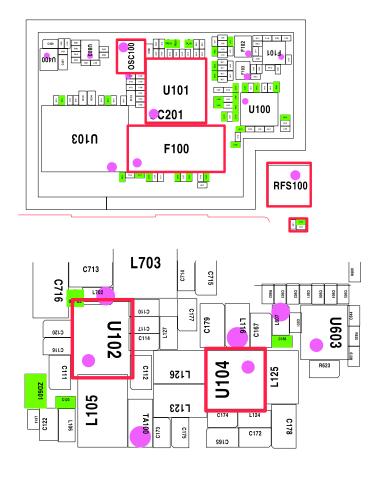
8-3-23. WCDMA BAND2 TX CONTINOUS TX ON CONDITION TX POWER DAC:14500 CODE X POWER DAC:14500 CODI APPLIED WCDMA Band2 CH: 9880 RBW: 100KHz VBW: 100KHz SPAN: 100HHz REF LEV: 10dBm ATT:: 20dB CHECK soldered YES U100 PIN11 : About RFS100,C103, L102 30dBm ? C107,L100,ANT100 **▼** NO NO Check the Voltage at Resolder or change $C101 = VDD_2V85_SUE2$? U100, C101 ▼ YES YES Check L132: Resolder or change About 22dBm ? L132 **▼** NO Check component NO Resolder or change soldering status OK at F100 F100 YES YES Resolder or change Check L137: About 22dBm ? L137 ▼ NO NO Check the Voltage at Resolder or change U103, R105,C134 R105,C134=VOUT_CHARGER? YES YES Check C138, C121 Resolder or change About 0dBm ? C138, C121 YES Check the voltage at {C150 = VOUT_CHARGER ?} {C165, C166, C167 = VOUT_CHARGER?} & {C165, C166, C167 = VOUT_CHARGER?} & {C149, C174 = 2.85V ?} & {C144, C172 = 2.65V ?} & {C148, C177 = 1.8V?} & {C147, C175, C173 = 1.2V?} NO Resolder or change U104 YES. NO Check the freq. at Change or resolder OSC100 PIN 1,3: 26MHz ? OSC100 ▼ YES NO Resolder or change UCP300 WCDMA BAND2 Transmitter is O.K? END



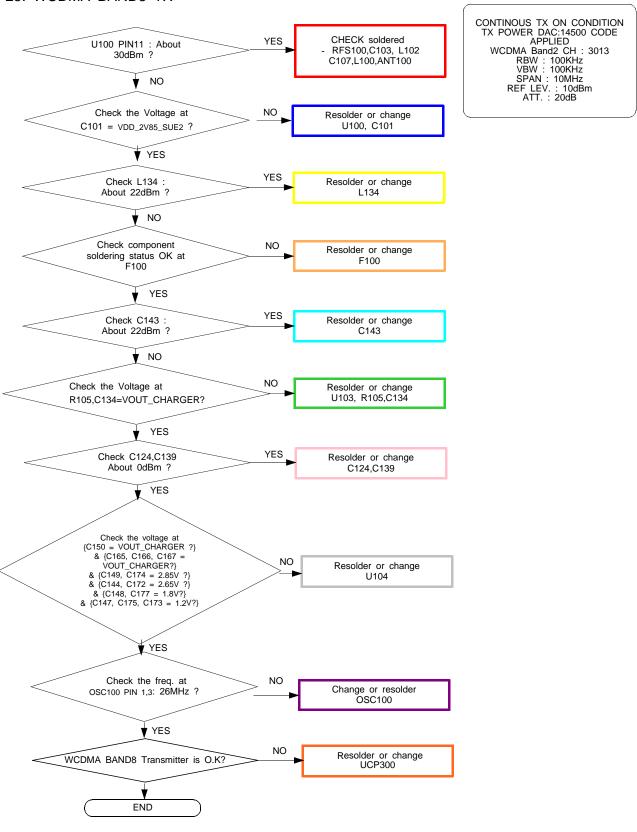


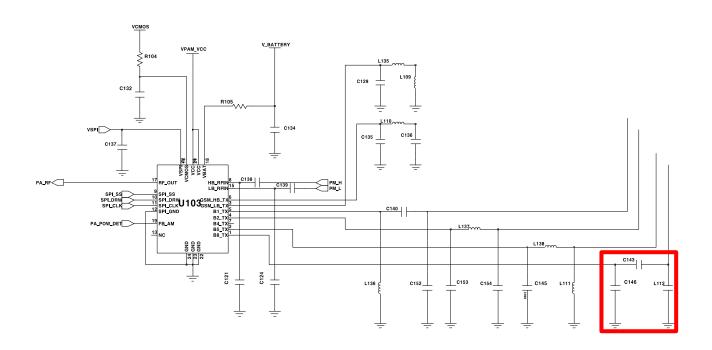
8-3-24. WCDMA BAND5 TX CONTINOUS TX ON CONDITION TX POWER DAC:14500 CODE X POWER DAC:14500 COD APPLIED WCDMA Band5 CH: 4408 RBW: 100KHz VBW: 100KHz SPAN: 10MHz REF LEV: : 10dBm ATT:: 20dB CHECK soldered YES U100 PIN11 : About RFS100,C103, L102 30dBm ? C107,L100,ANT100 **▼** NO NO Check the Voltage at Resolder or change C101 = VDD_2V85_SUE2 ? U100, C101 ▼ YES YES Check C118,L107: Resolder or change About 22dBm ? C118,L107 **▼** NO Check component NO Resolder or change soldering status OK at F100 F100 YES YES Check L138,L111: Resolder or change About 22dBm ? L138,L111 NO NO Check the Voltage at Resolder or change U103, R105,C134 R105,C134=VOUT_CHARGER? YES YES Check C124,C139 Resolder or change About 0dBm ? C124,C139 YES Check the voltage at {C150 = VOUT_CHARGER ?} C150 = VOUT_CHARGER ? & {C165, C166, C167 = VOUT_CHARGER?} & {C149, C174 = 2.85V ?} & {C144, C172 = 2.65V ?} NO Resolder or change U104 & {C148, C177 = 1.8V?} & {C147, C175, C173 = 1.2V?} YES. NO Check the freq. at Change or resolder OSC100 PIN 1,3: 26MHz ? OSC100 ▼ YES NO Resolder or change UCP300 WCDMA BAND5 Transmitter is O.K? END

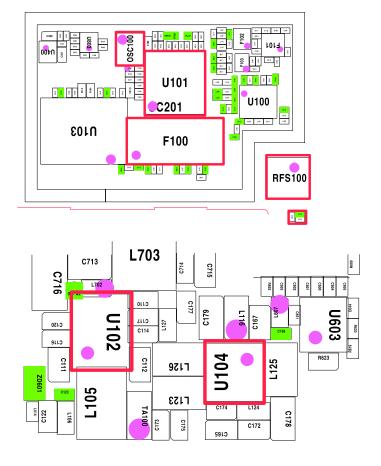




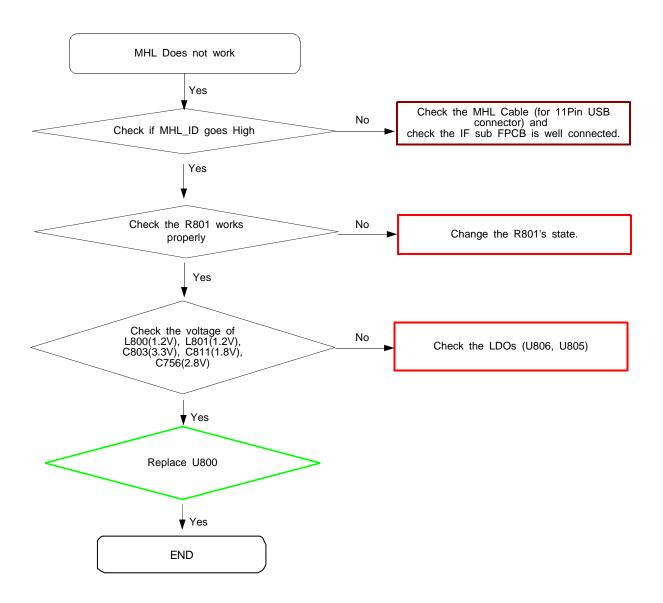
8-3-25. WCDMA BAND8 TX

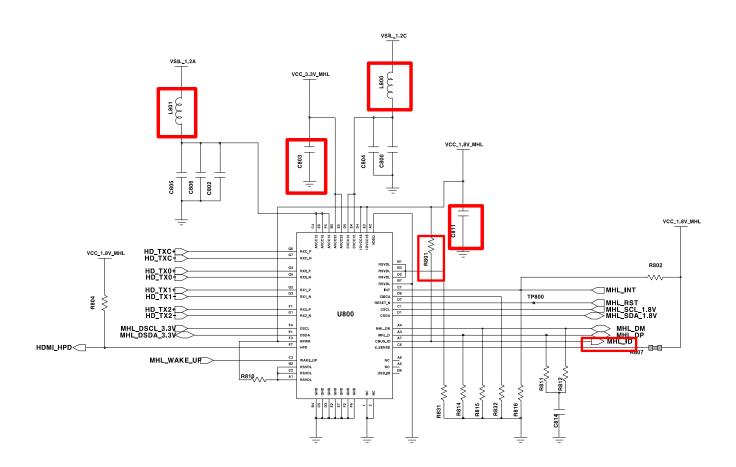


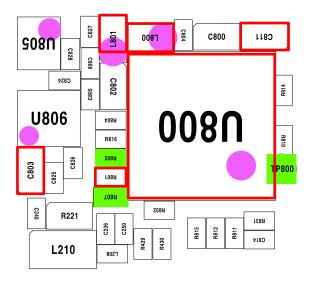




8-3-26. MHL







8-3-27. OTG

