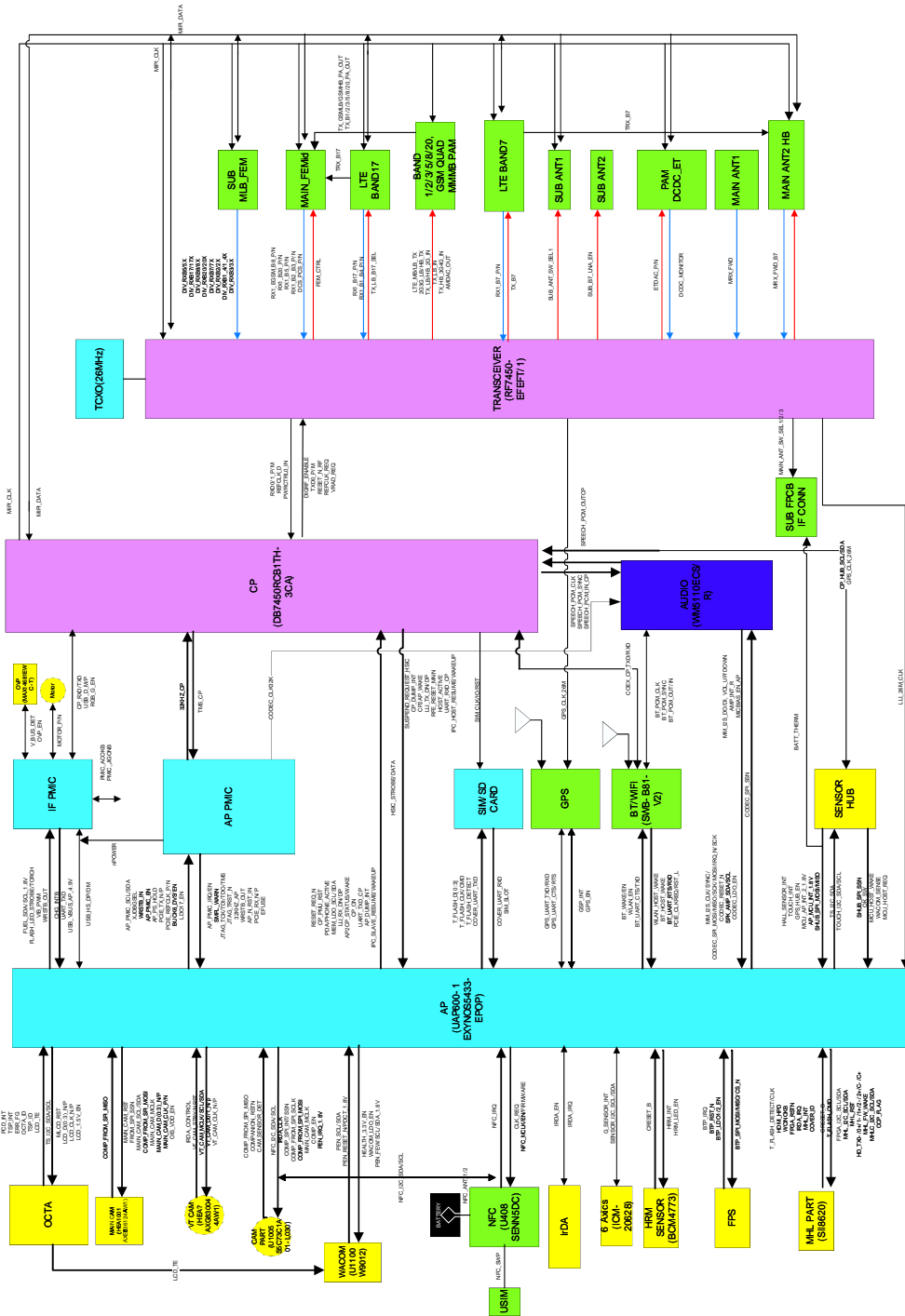


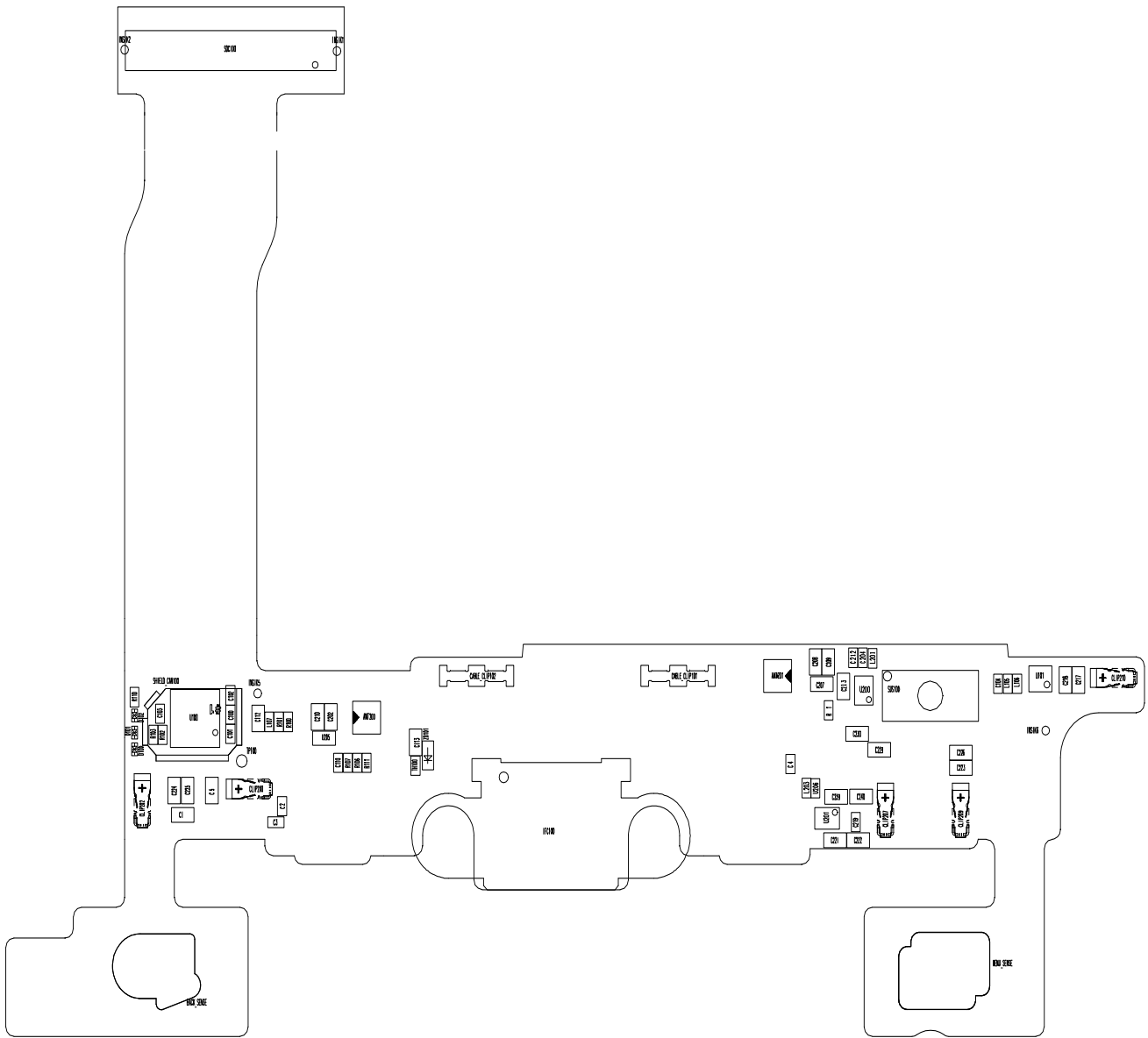
8. Level 3 Repair

8-1. Block Diagram

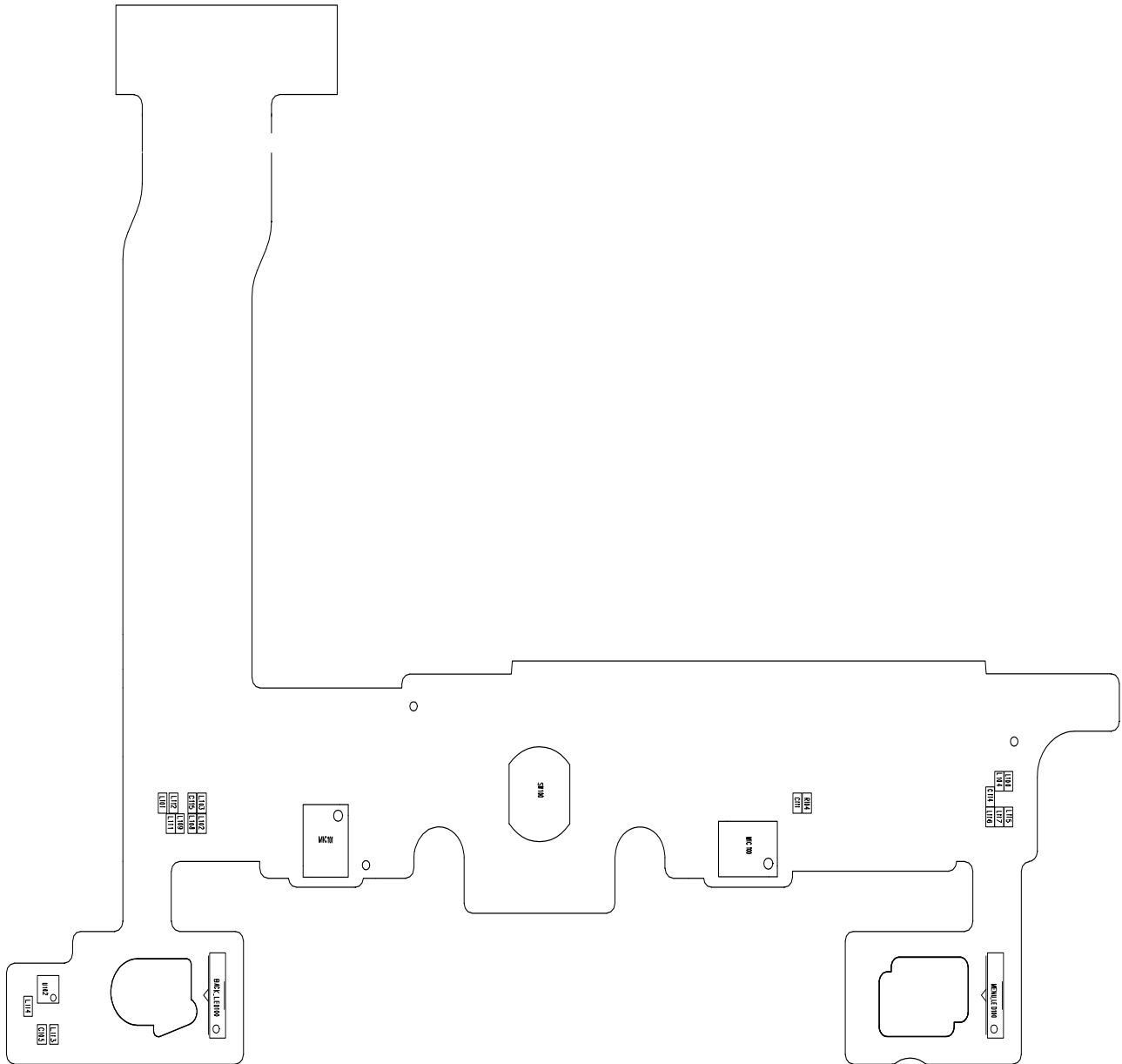
TR BLOCK DIAGRAM



8-2-3. Sub PCB Top

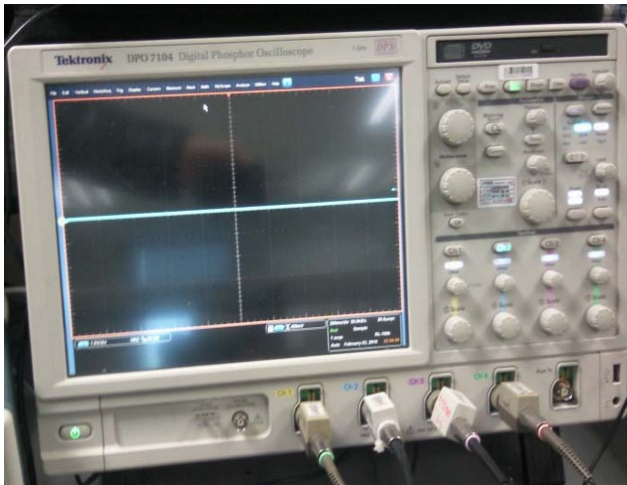


8-2-4. Sub PCB Bottom



8-3. Flow Chart of Troubleshooting

Equipments



↑ Oscilloscope



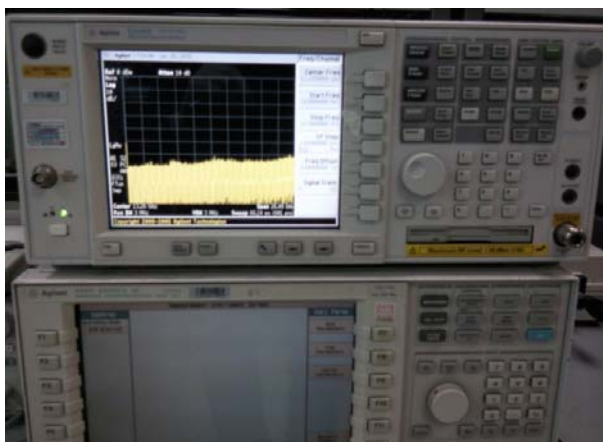
↑ Digital Multimeter



↑ Power Supply



↑ + driver, ESD Safe Tweezer

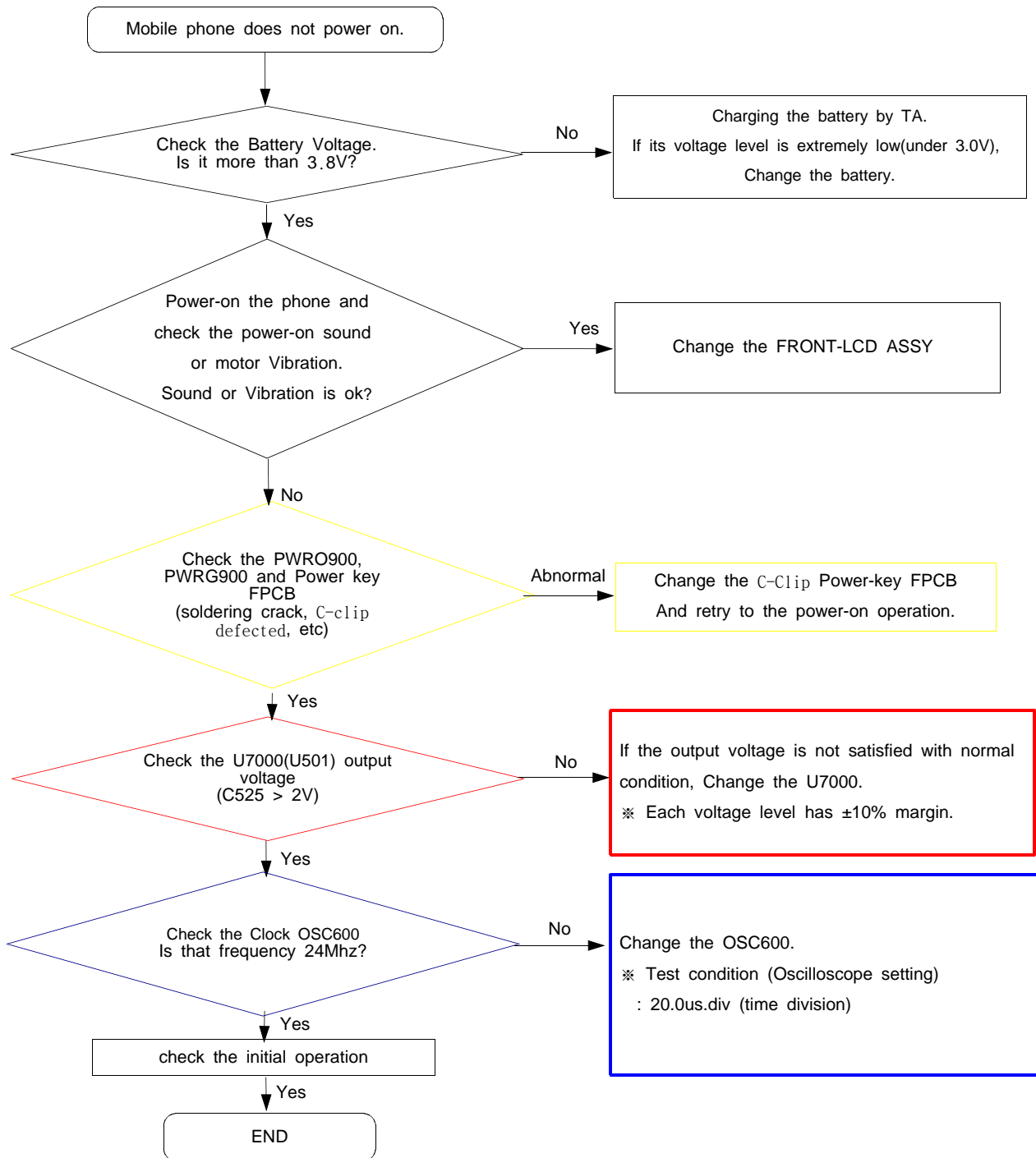


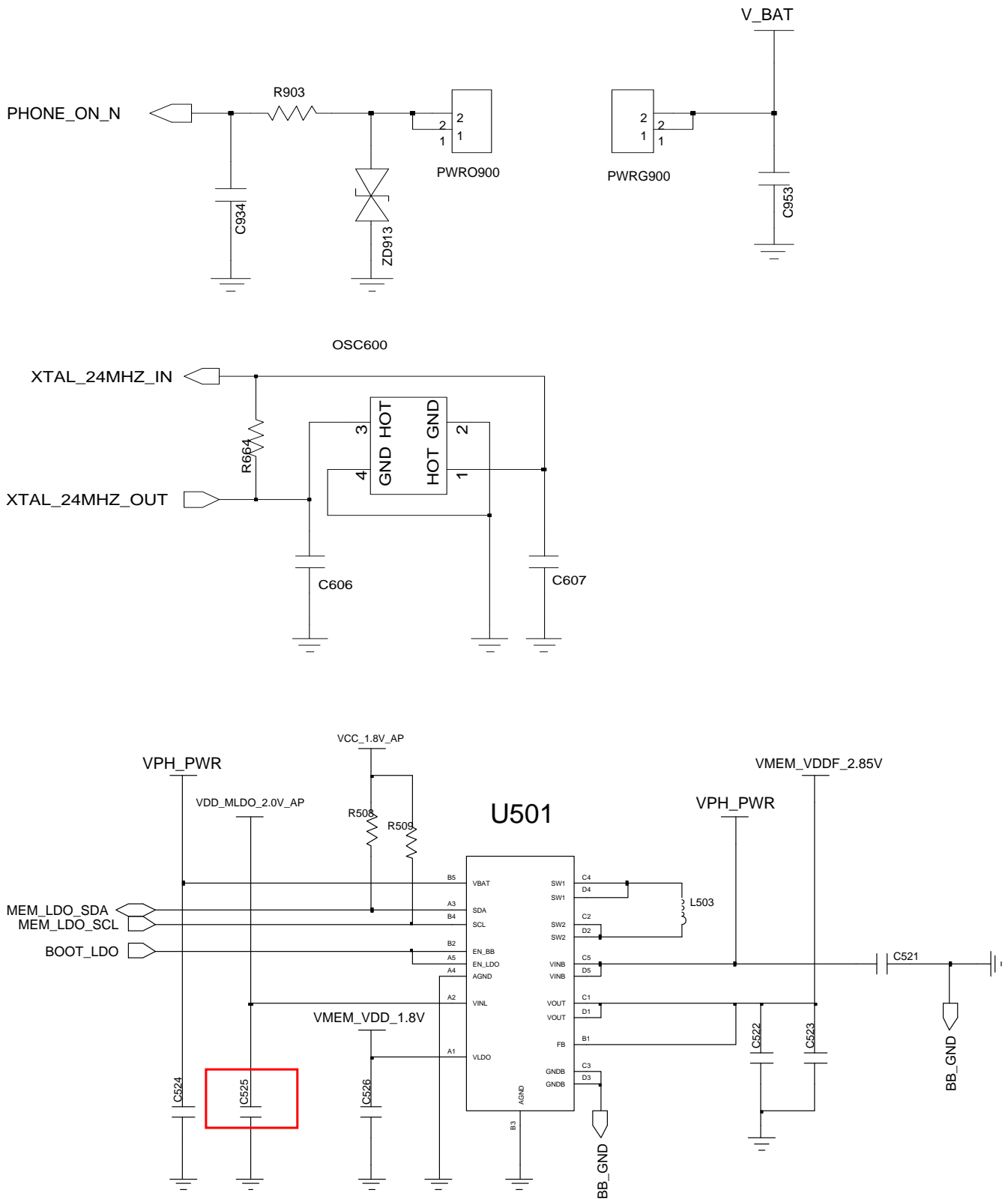
↑ 8960 & Spectrum Analyzer



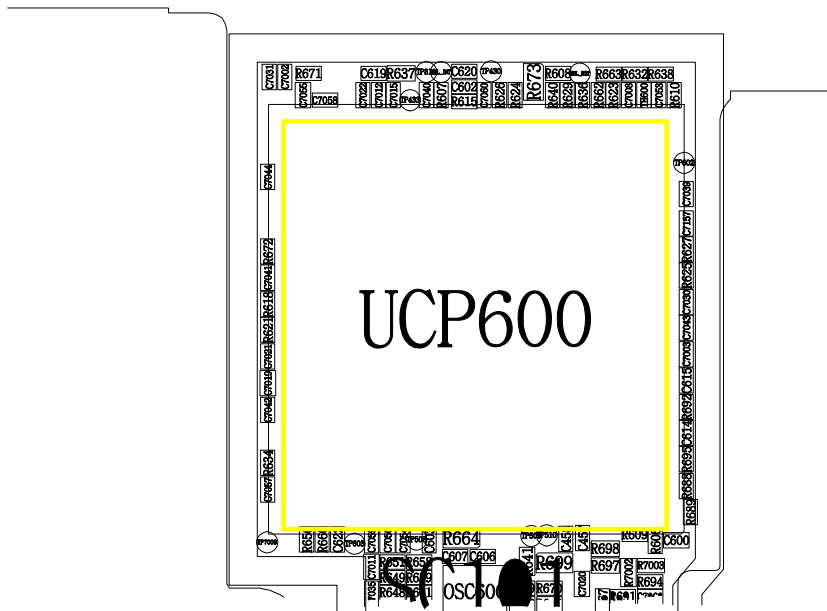
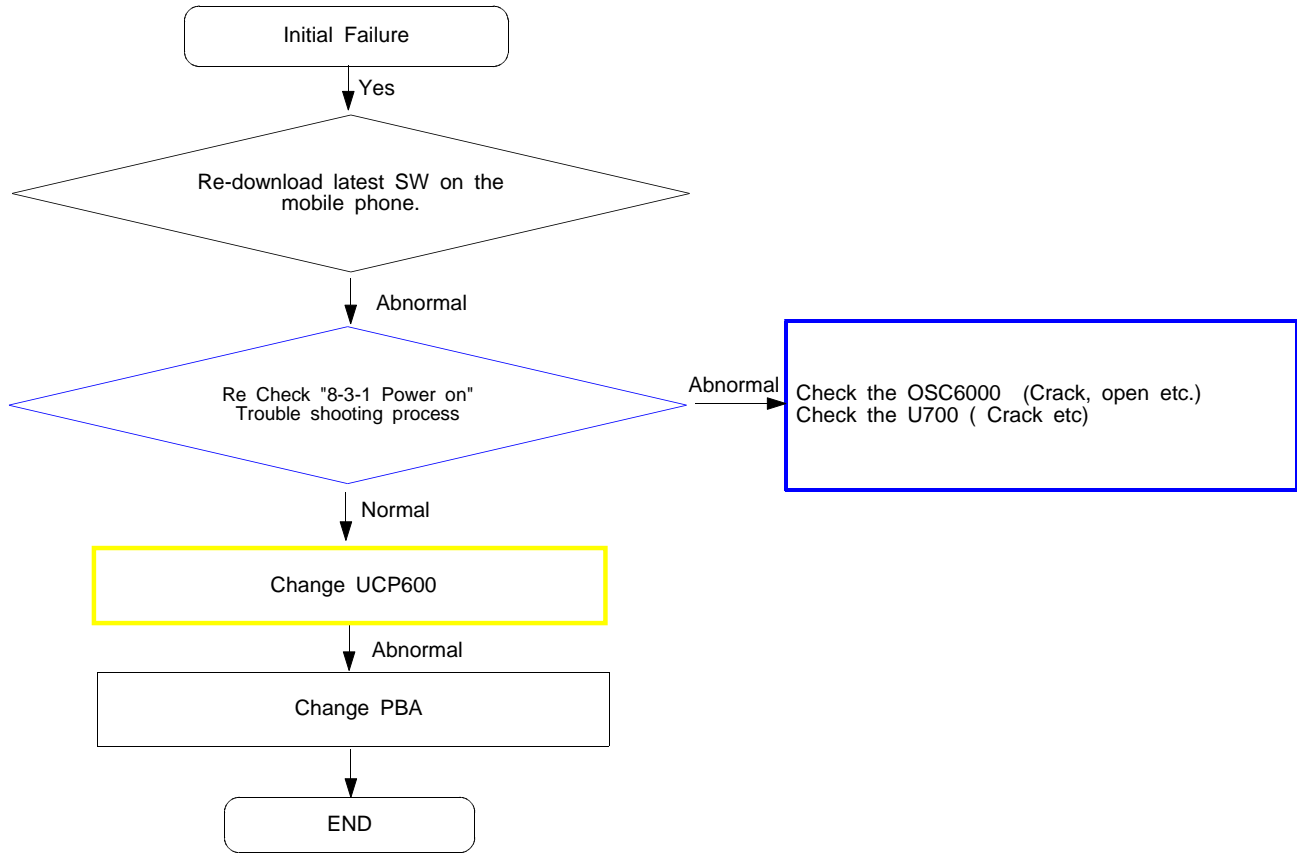
↑ Soldering iron

8-3-1. Power On

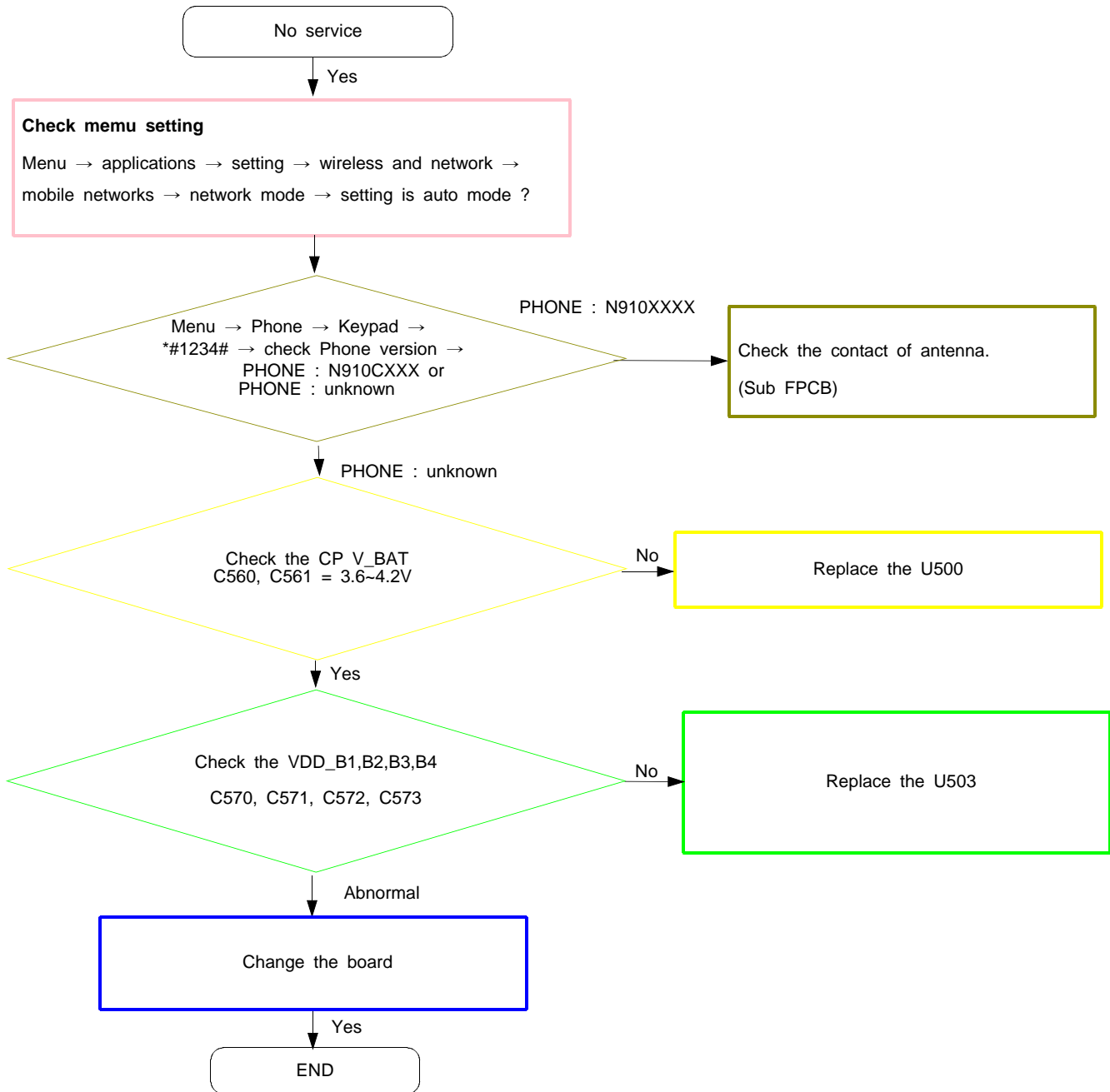


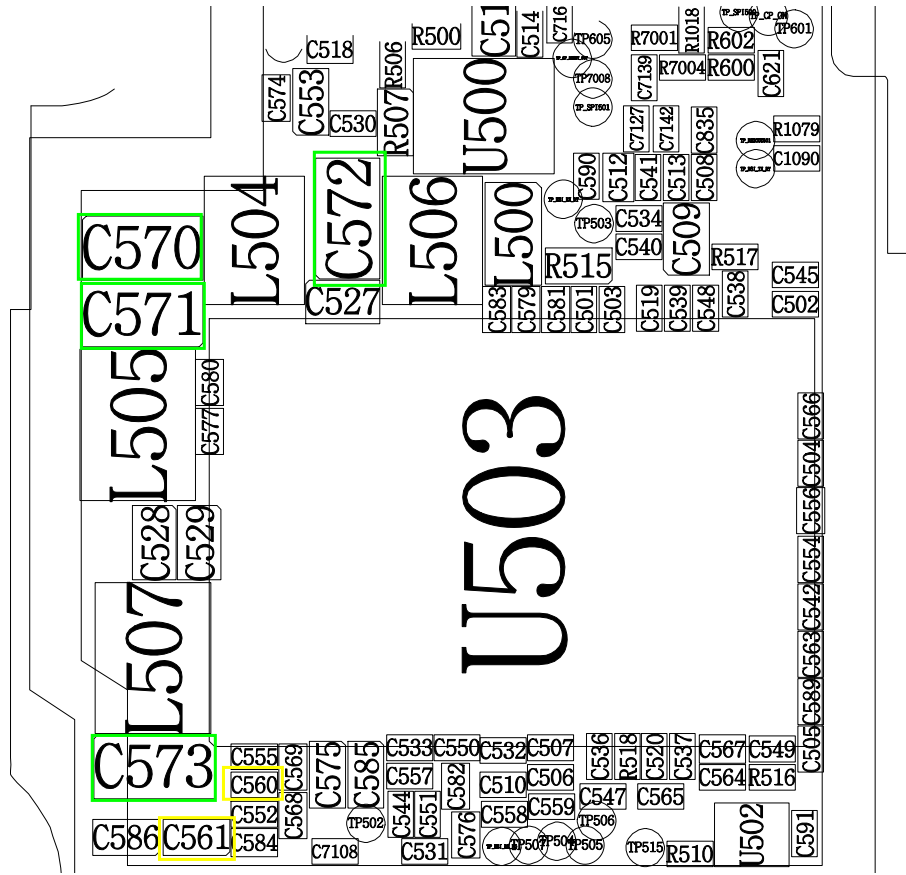
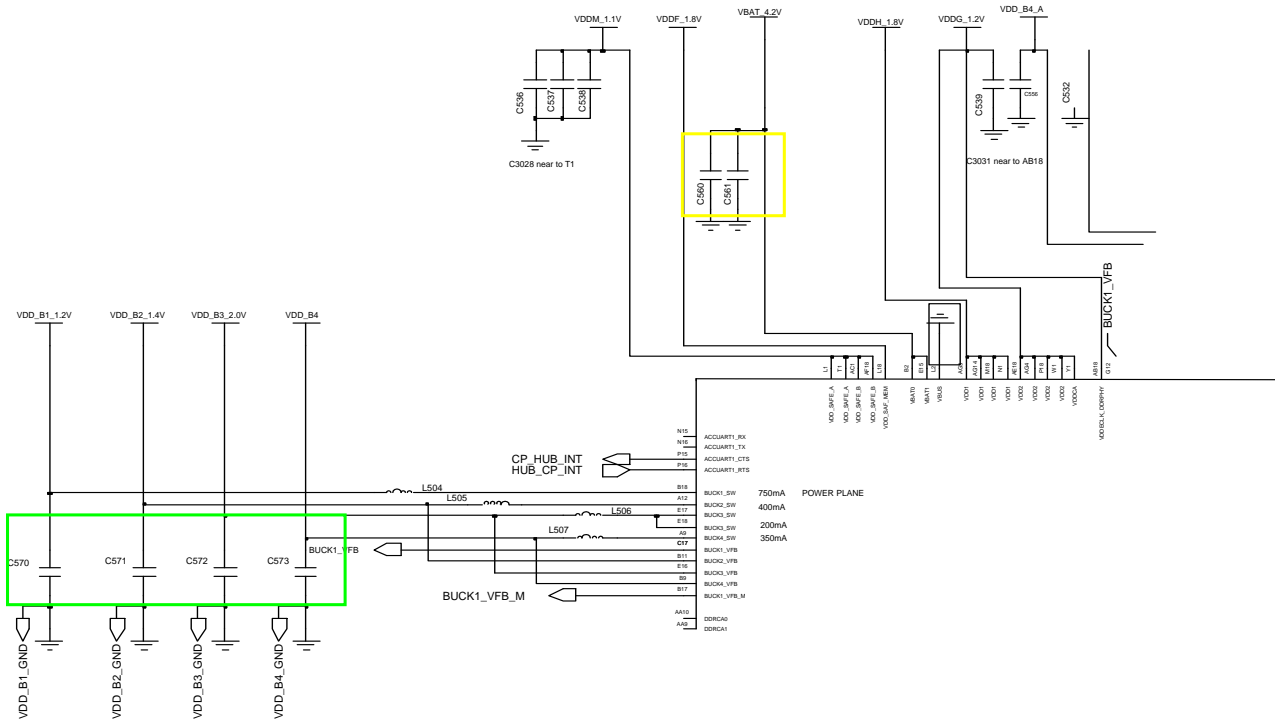


8-3-2. Initial

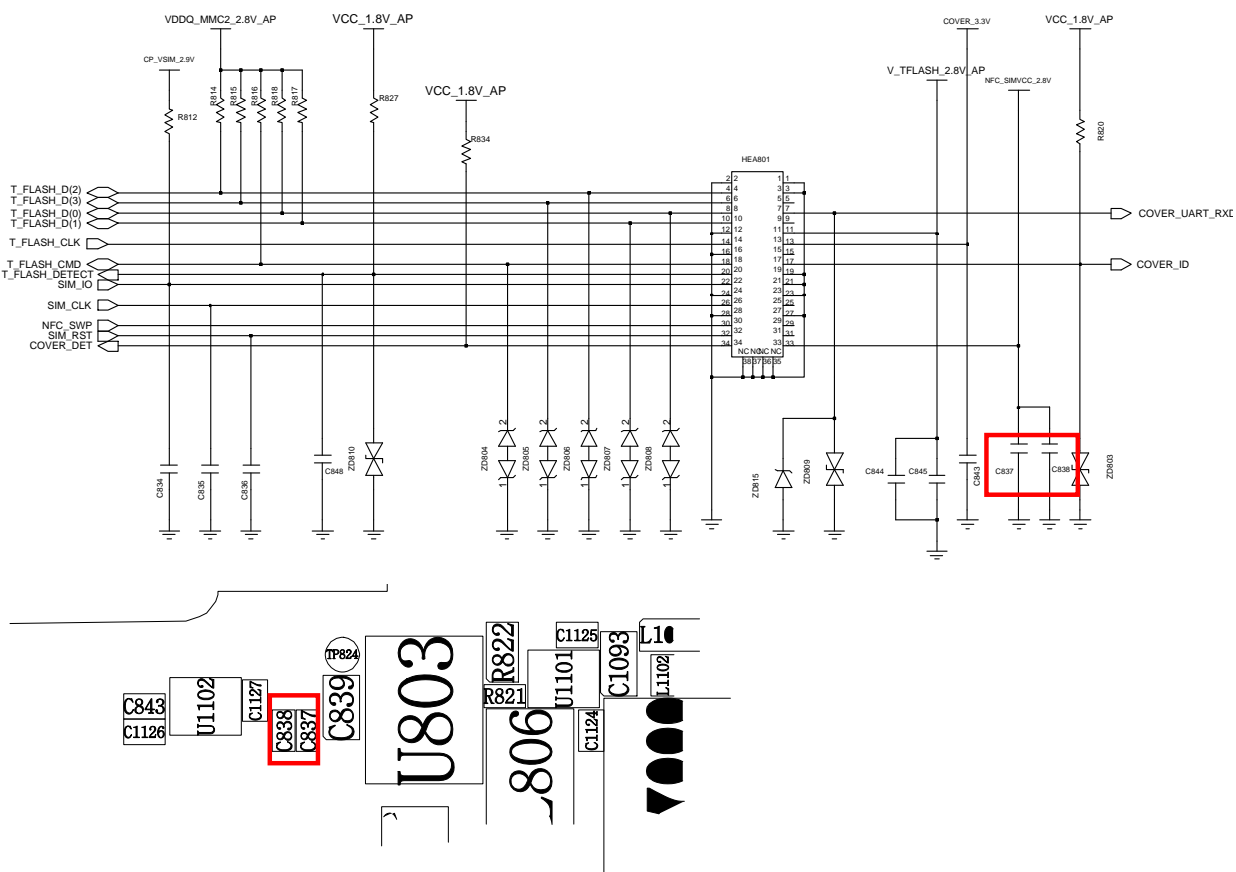
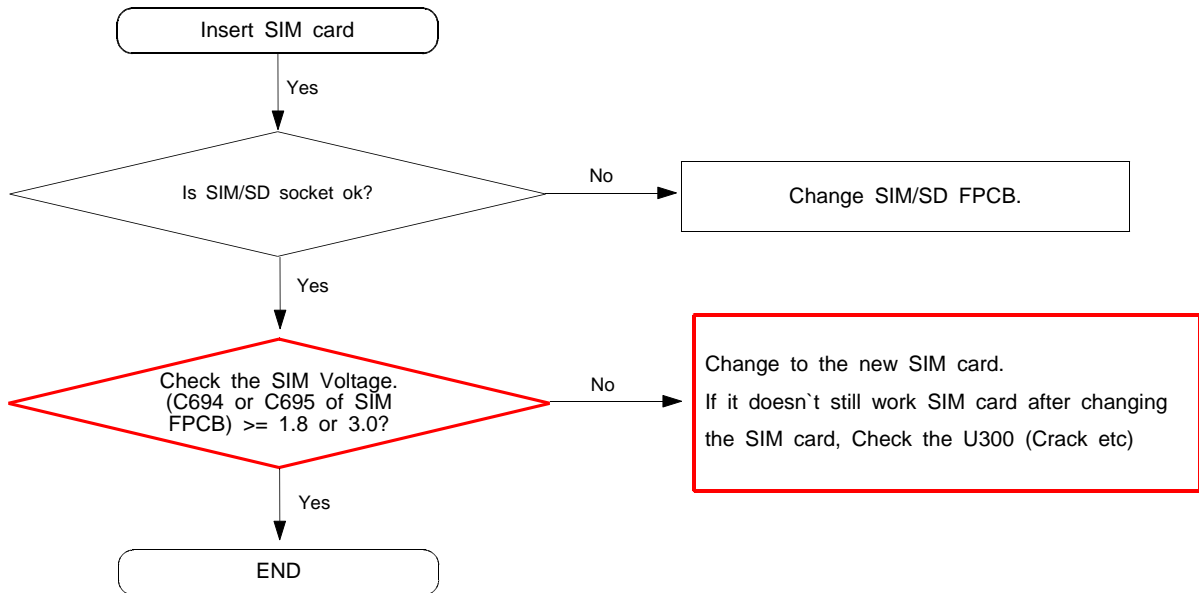


8-3-3. No Service

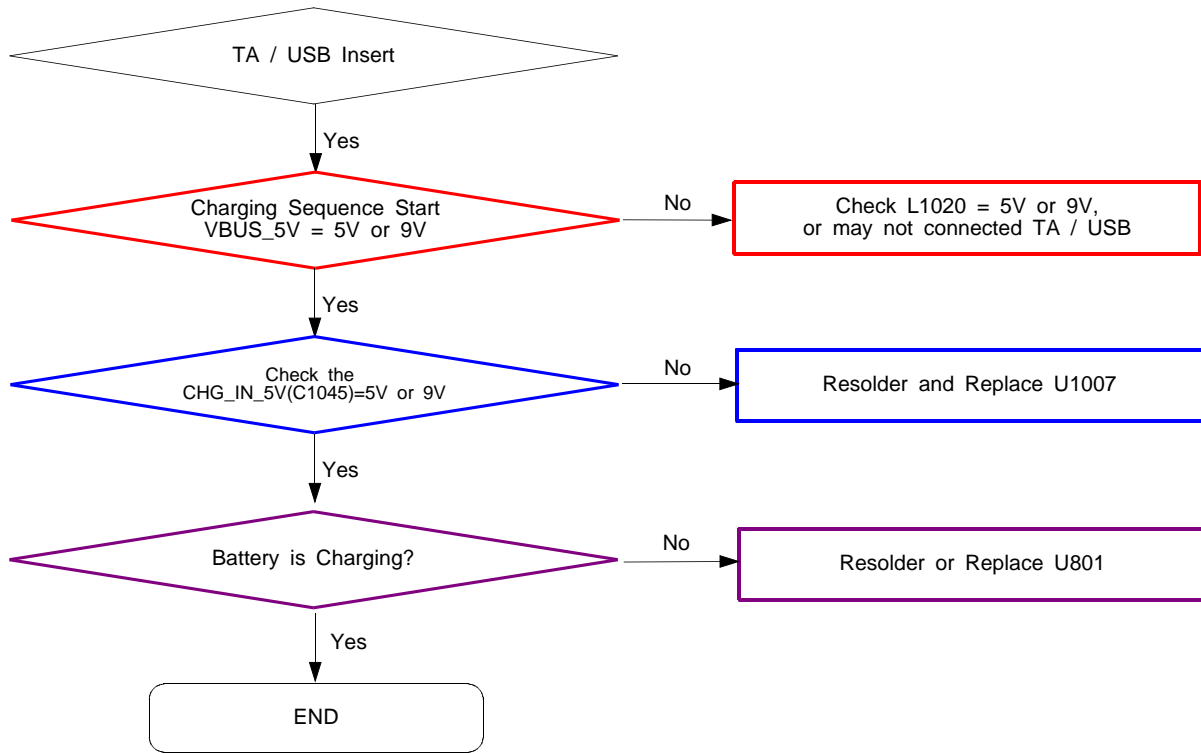




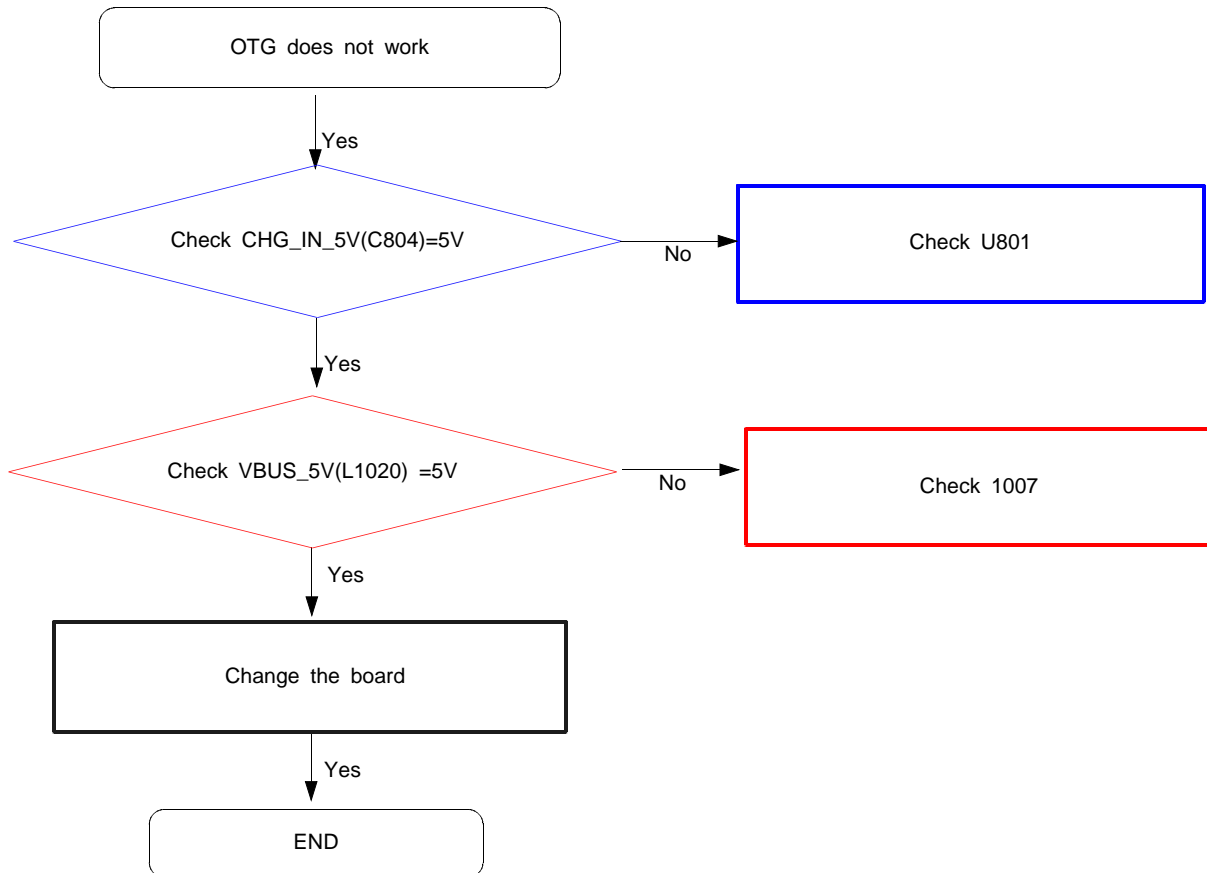
8-3-4. Sim Part



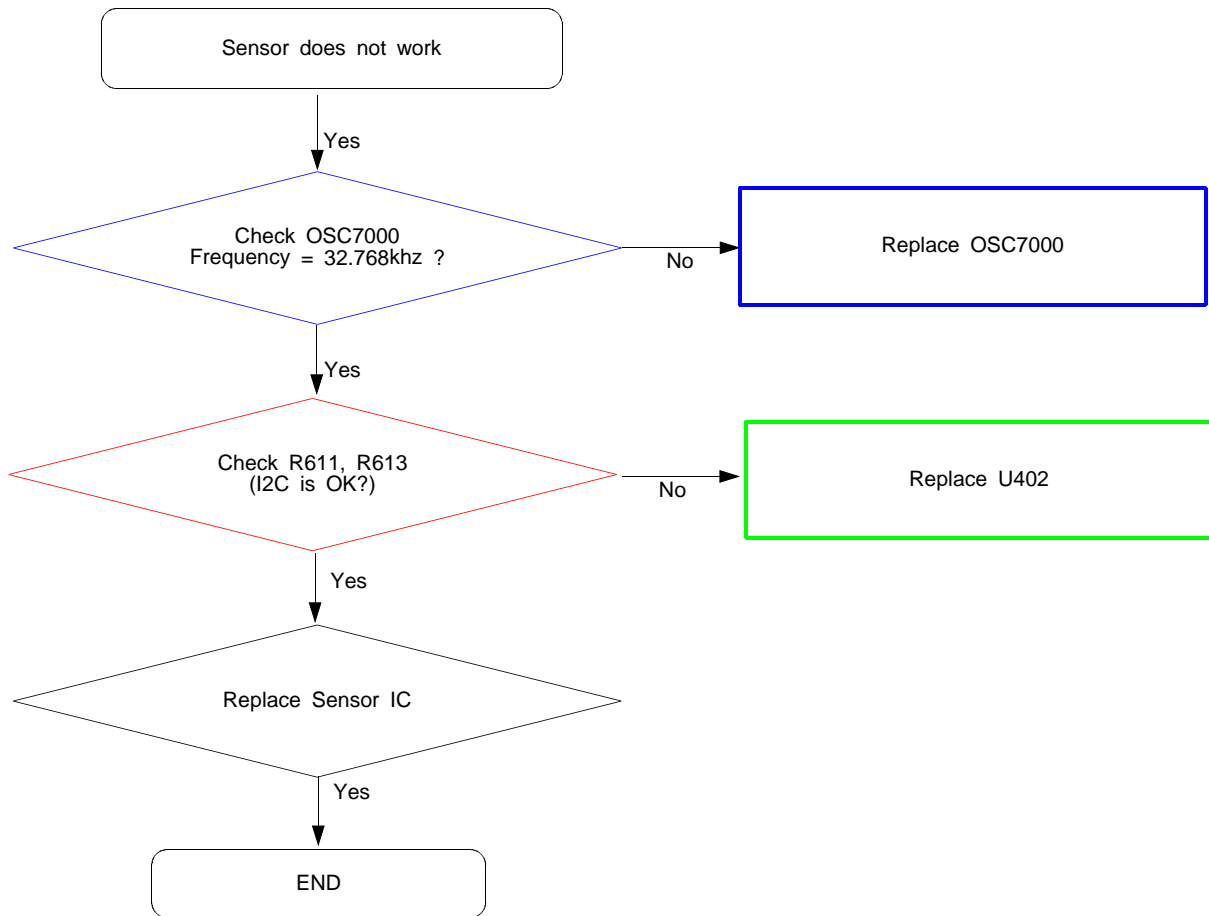
8-3-5. Charging Part



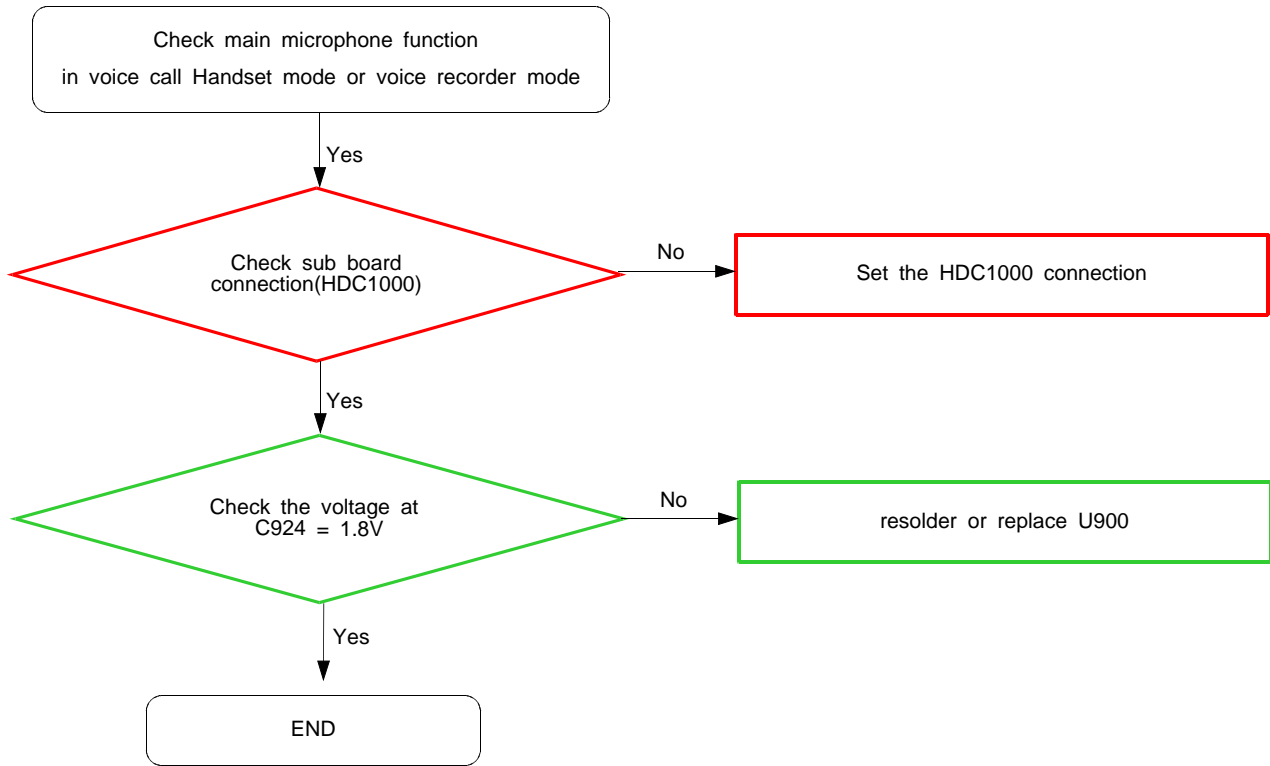
8-3-6. OTG

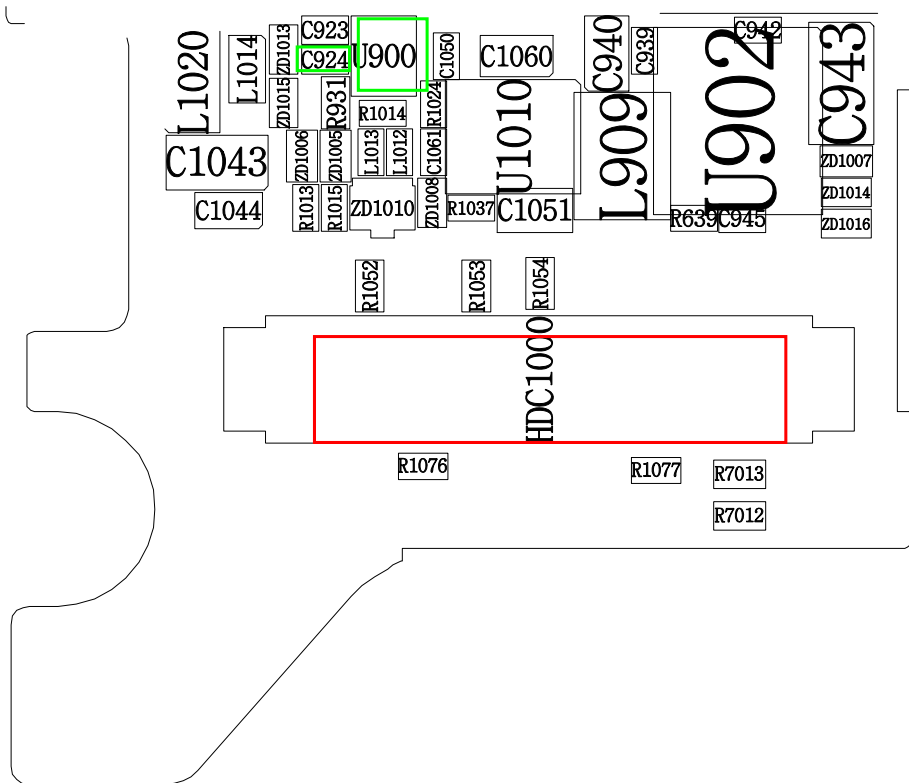
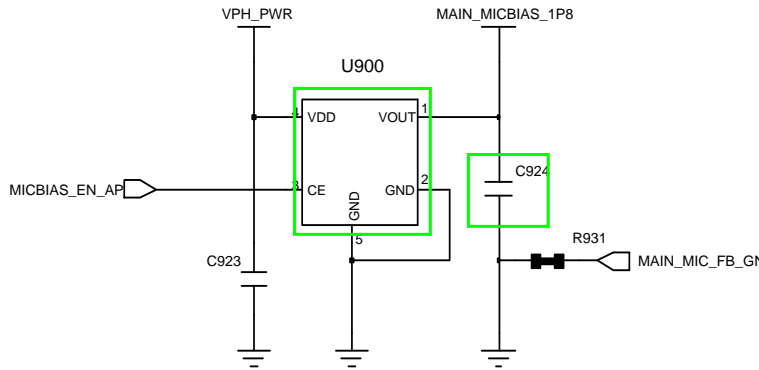


8-3-7. Sensor

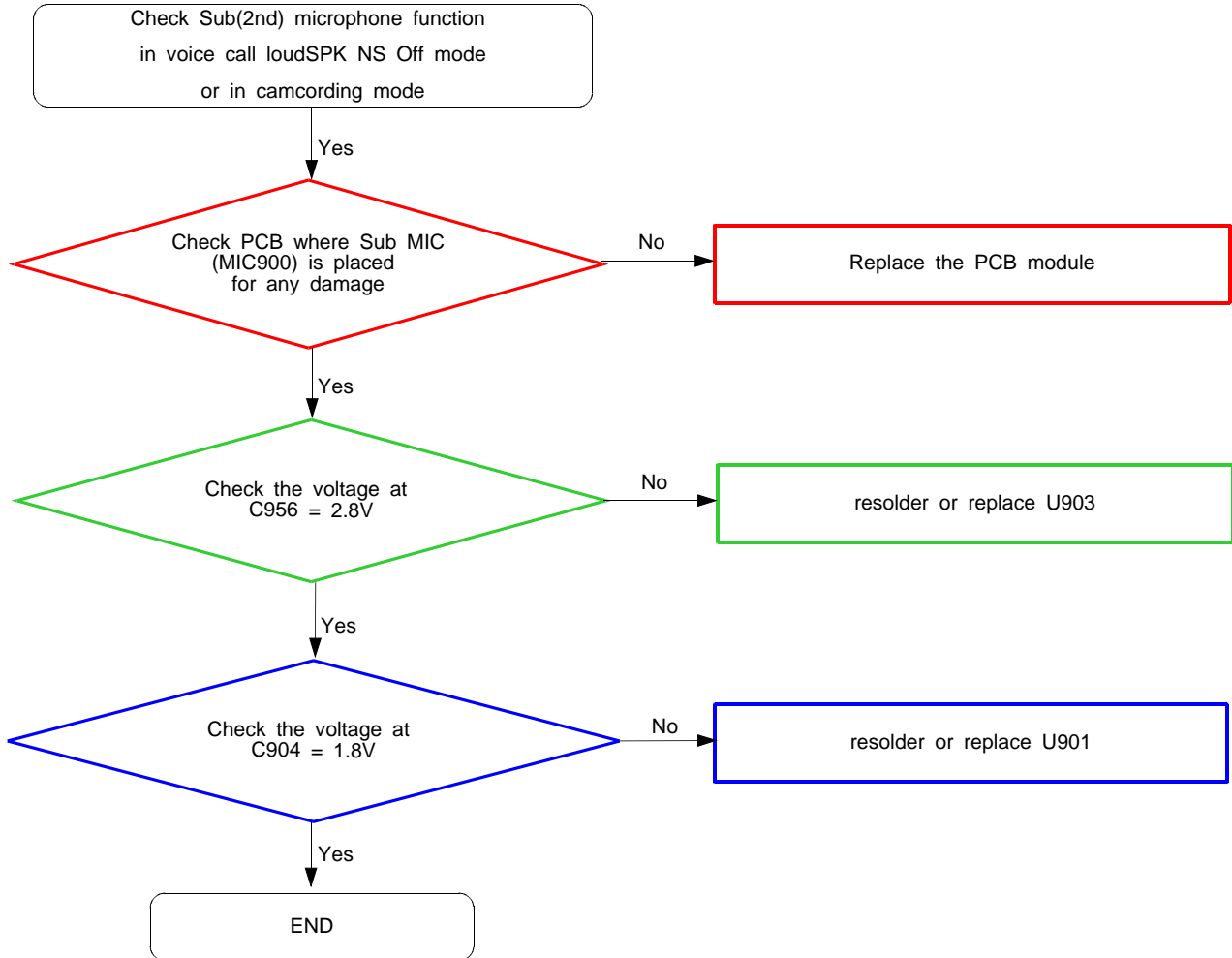


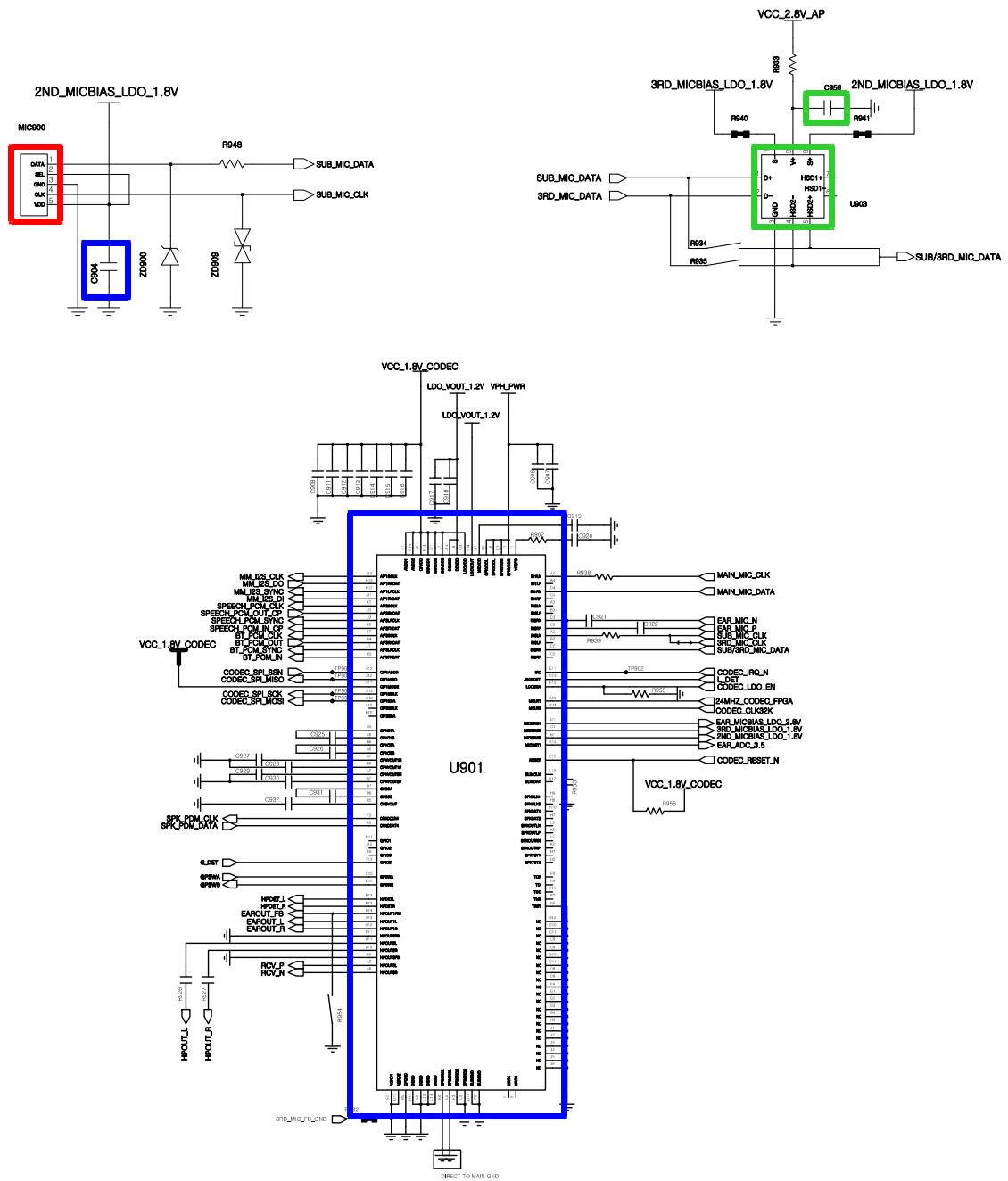
8-3-8-1 Microphone Part - Main MIC

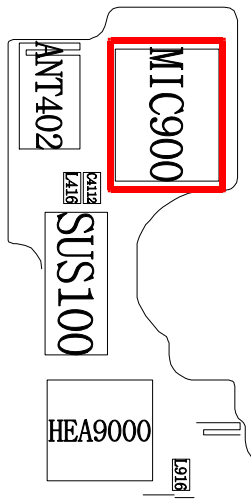
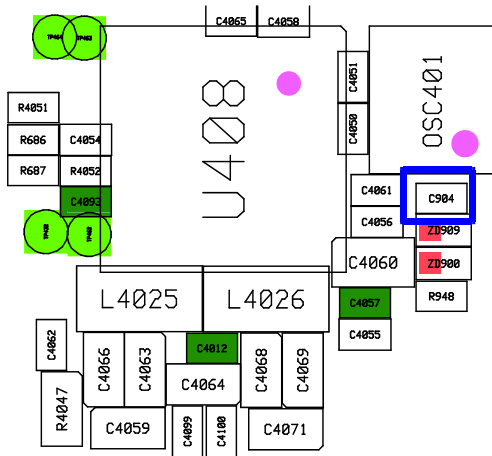
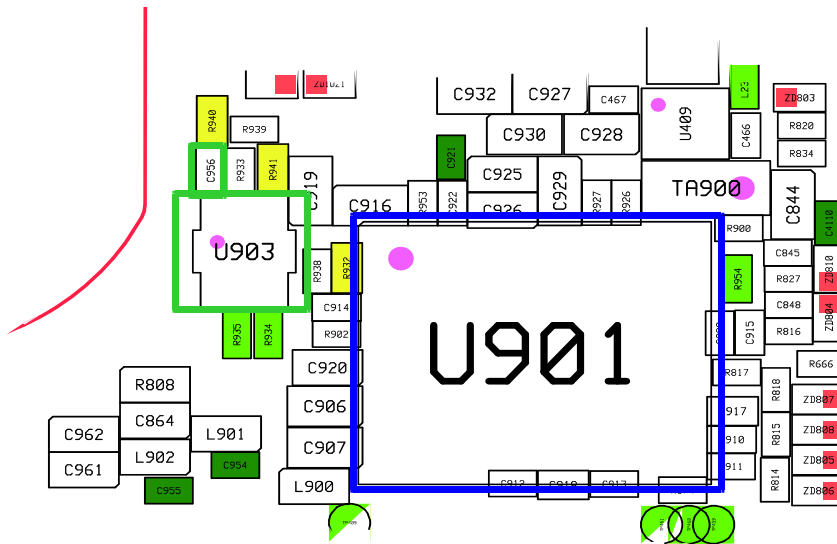




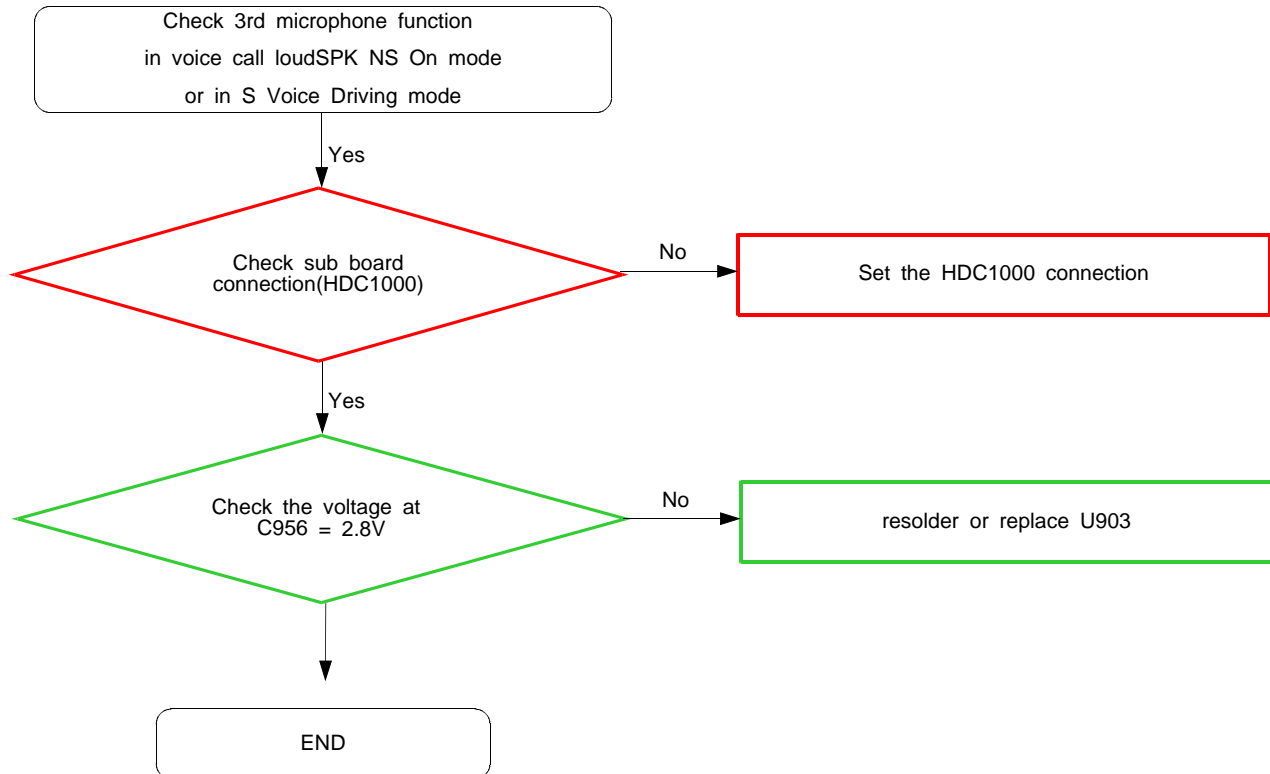
8-3-8-2. Microphone Part - Sub(2nd) MIC

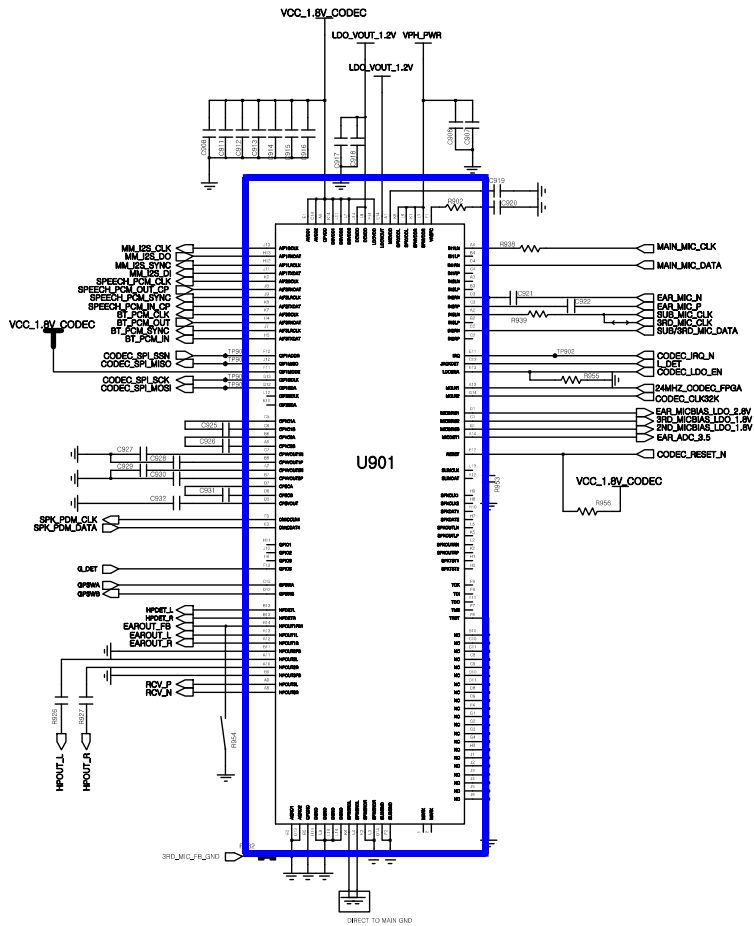
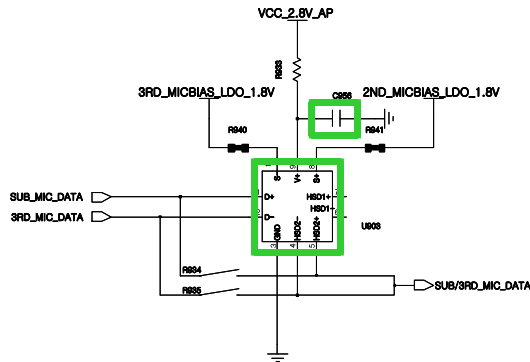


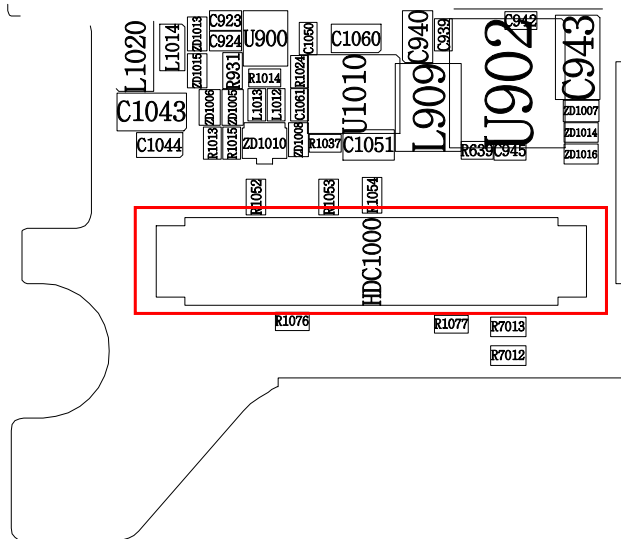
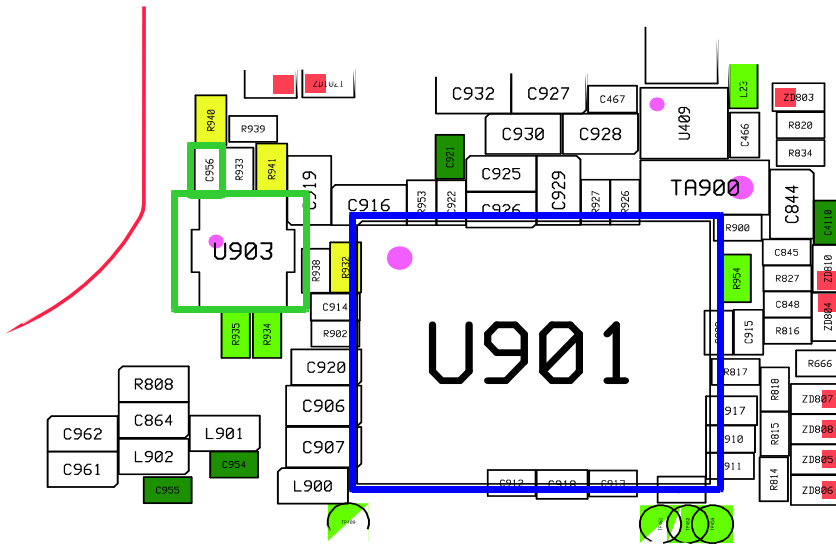




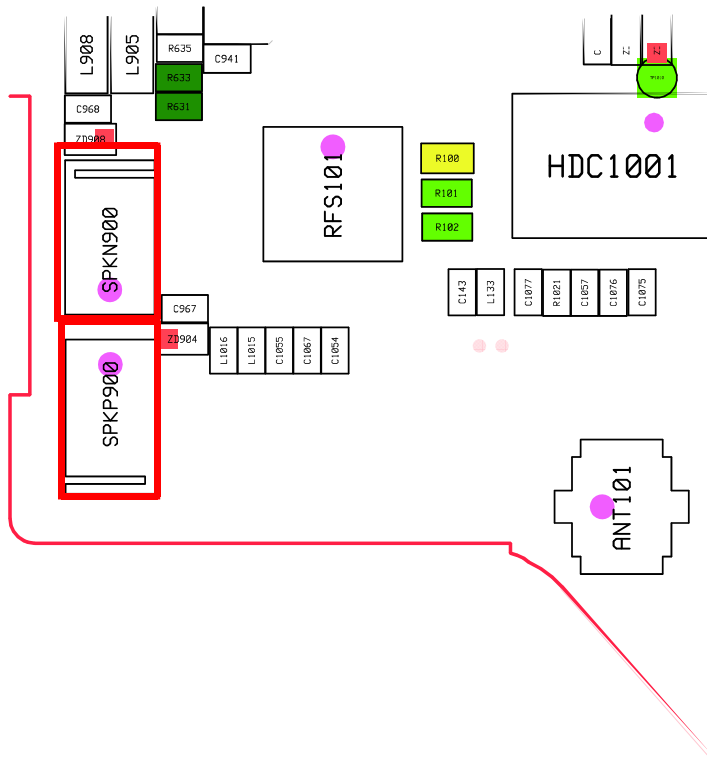
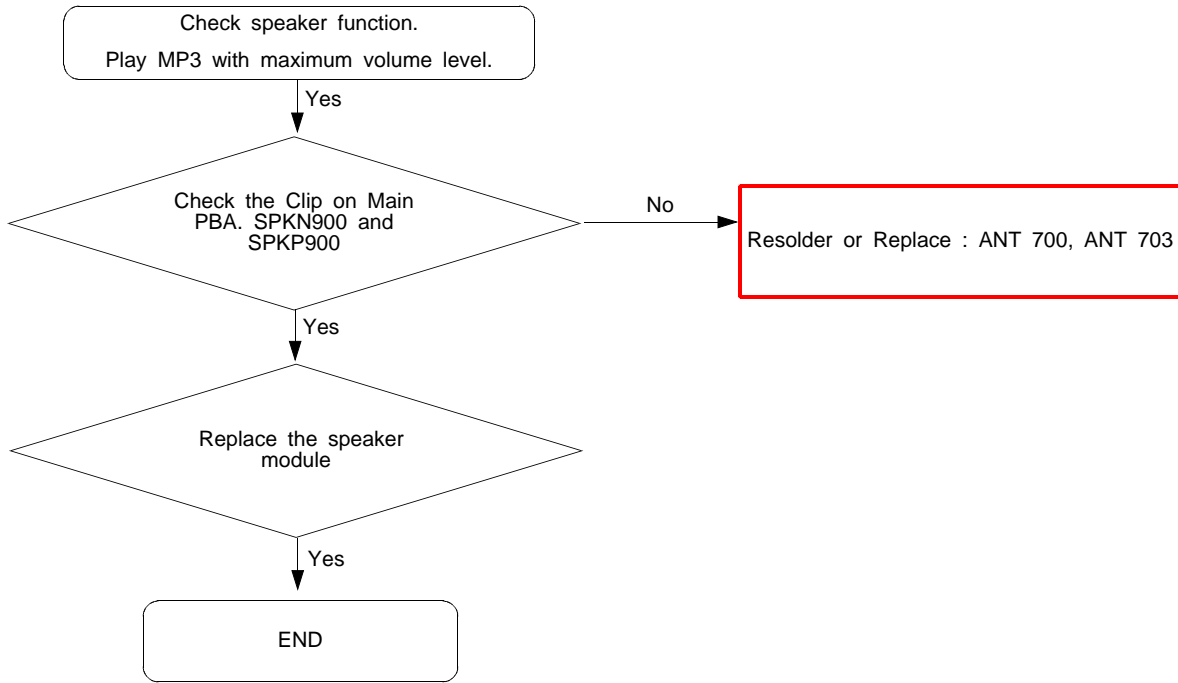
8-3-8-3. Microphone Part - 3rd MIC



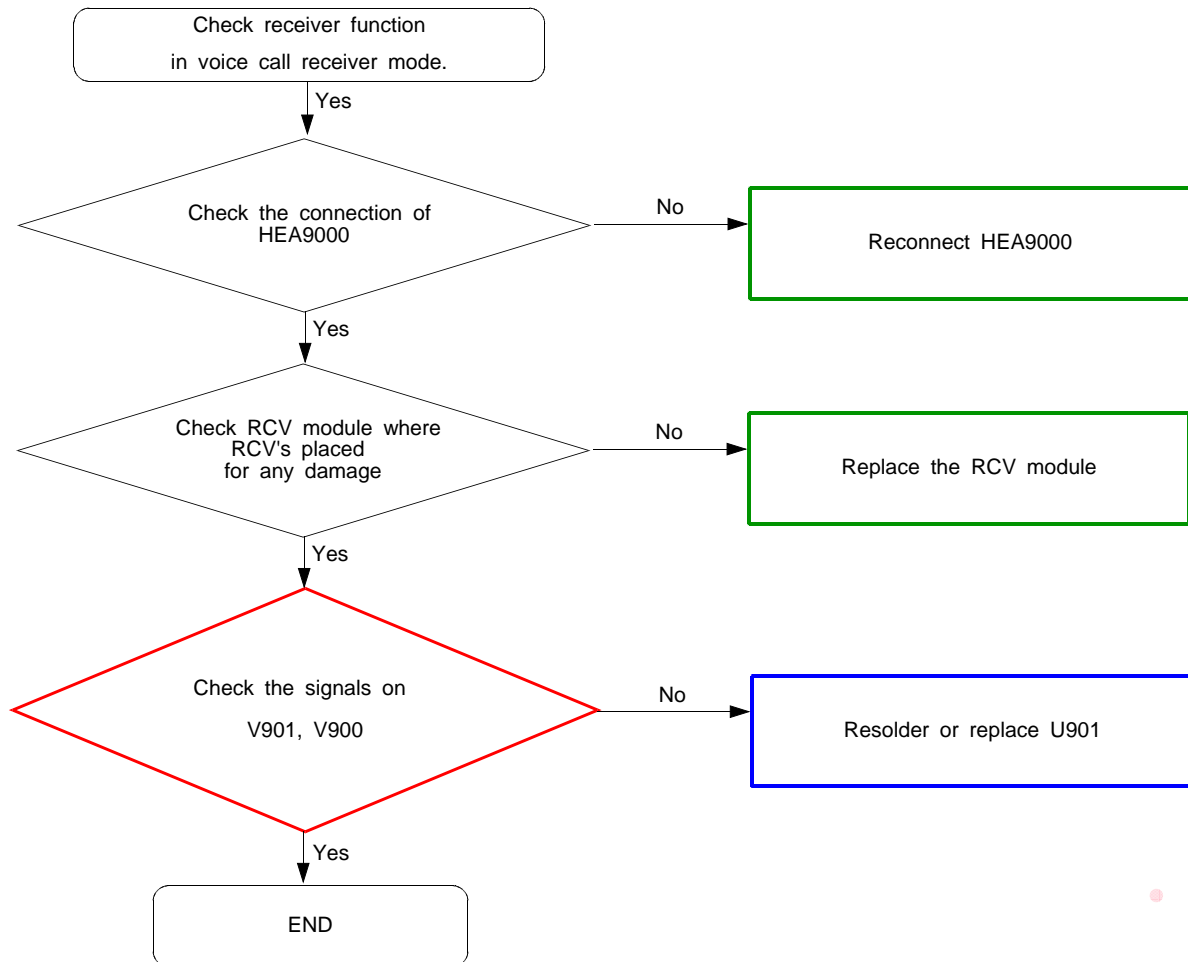


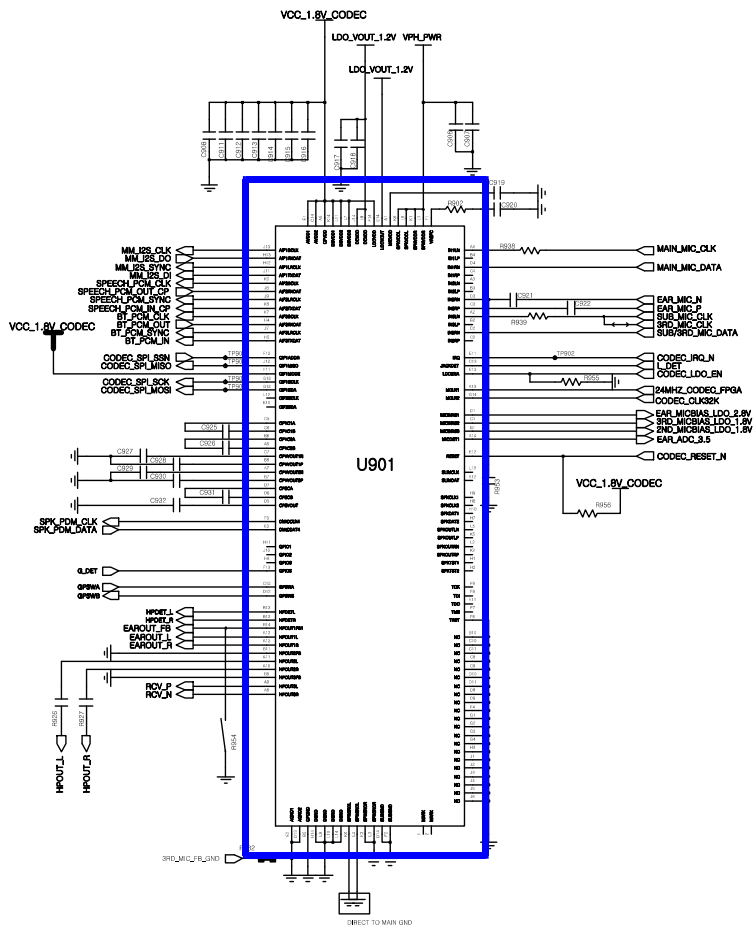
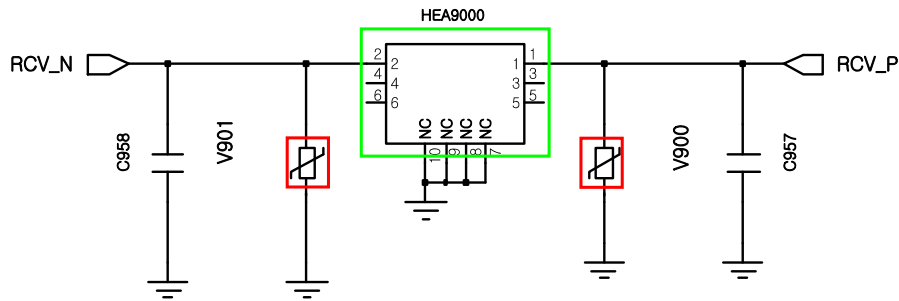


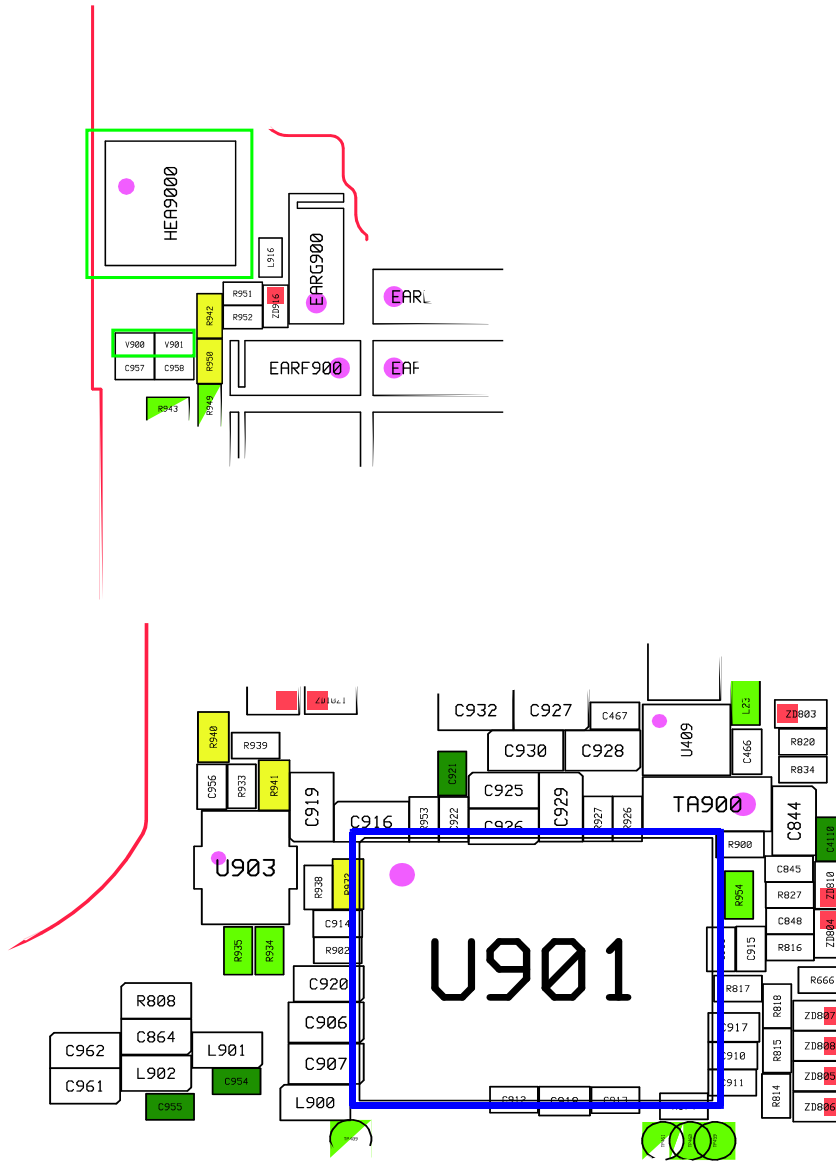
8-3-9. Speaker Part



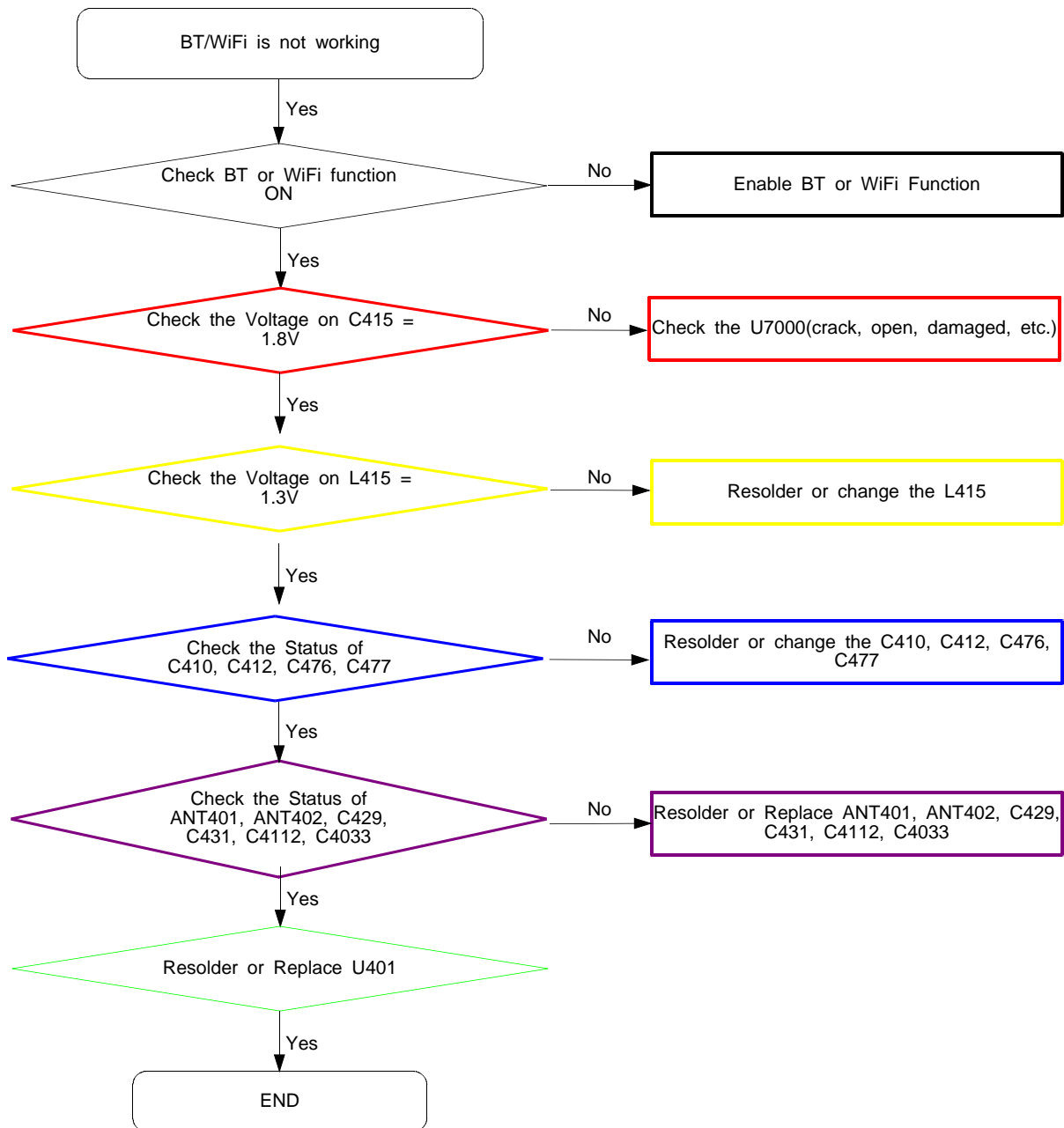
8-3-10. Receiver Part



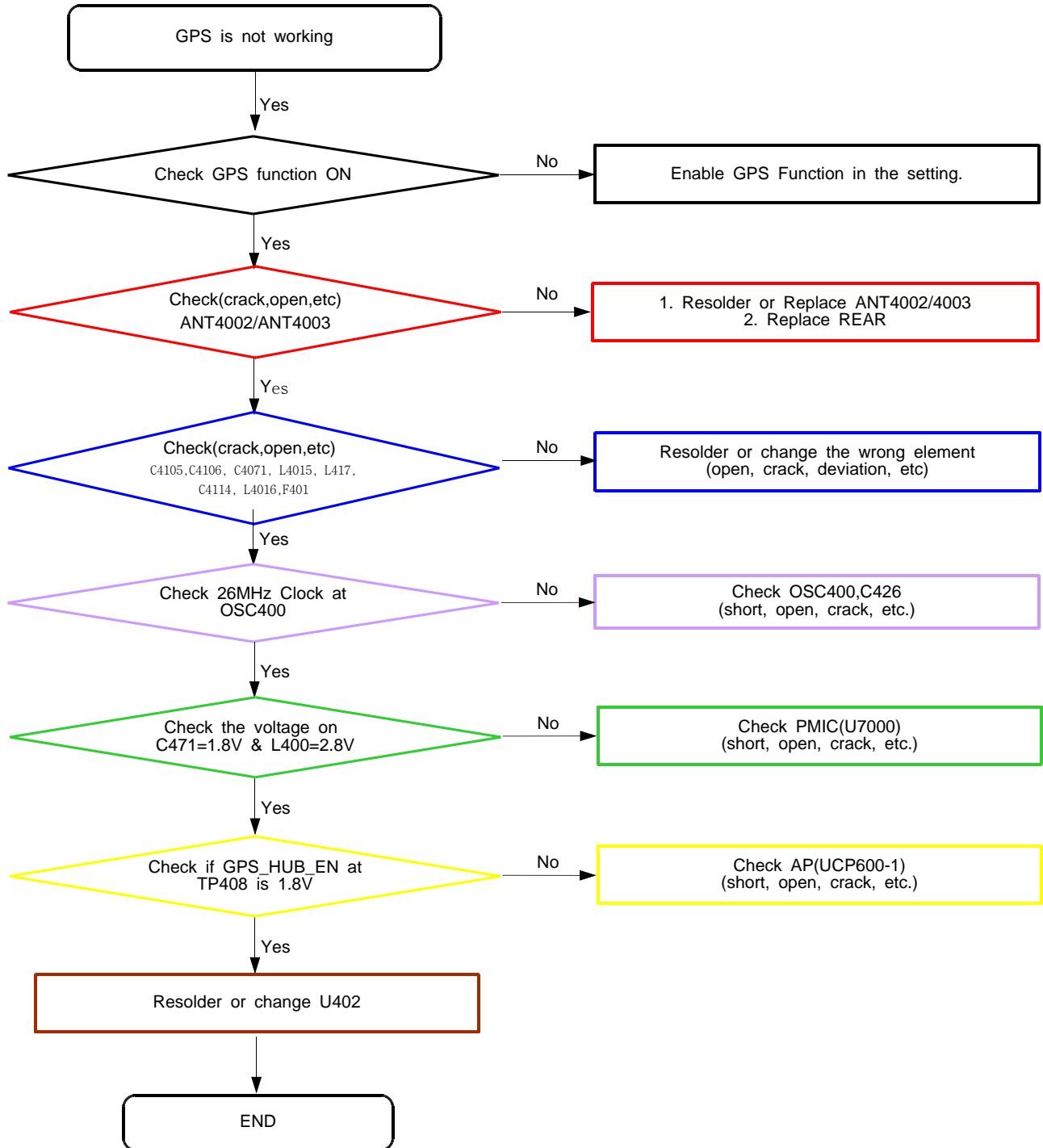




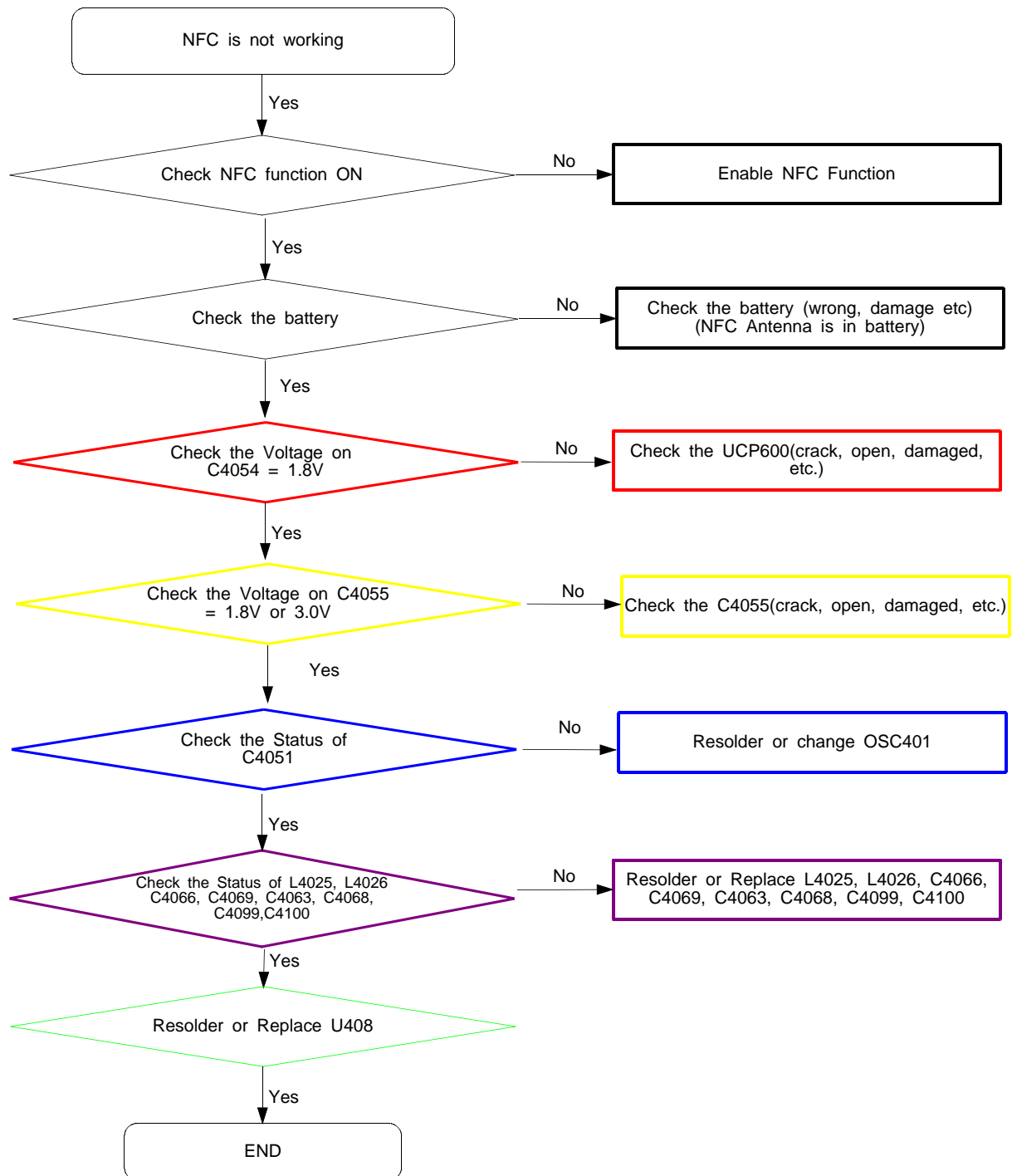
8-3-11. BT/WIFI



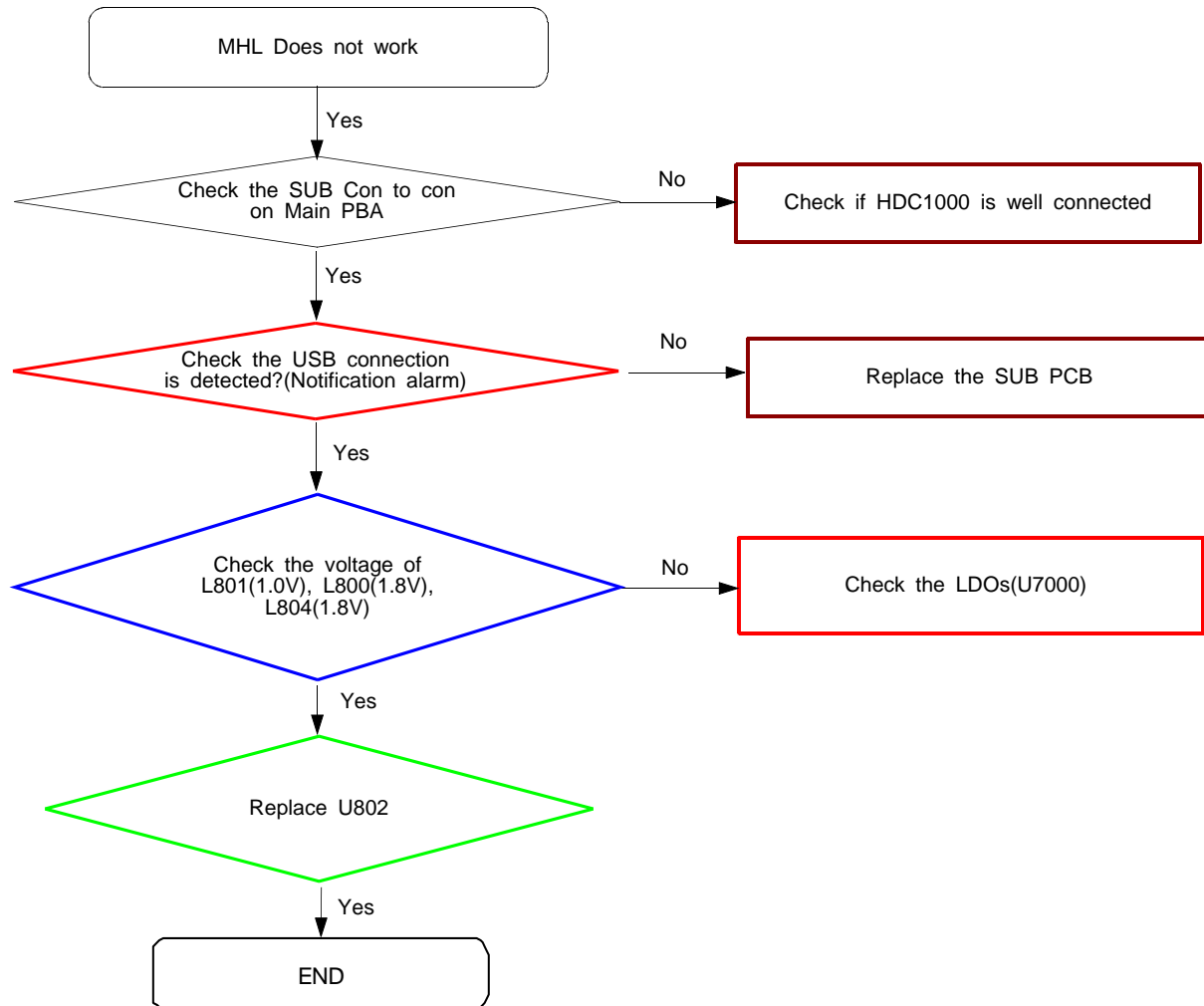
8-4-12. GPS



8-3-13. NFC

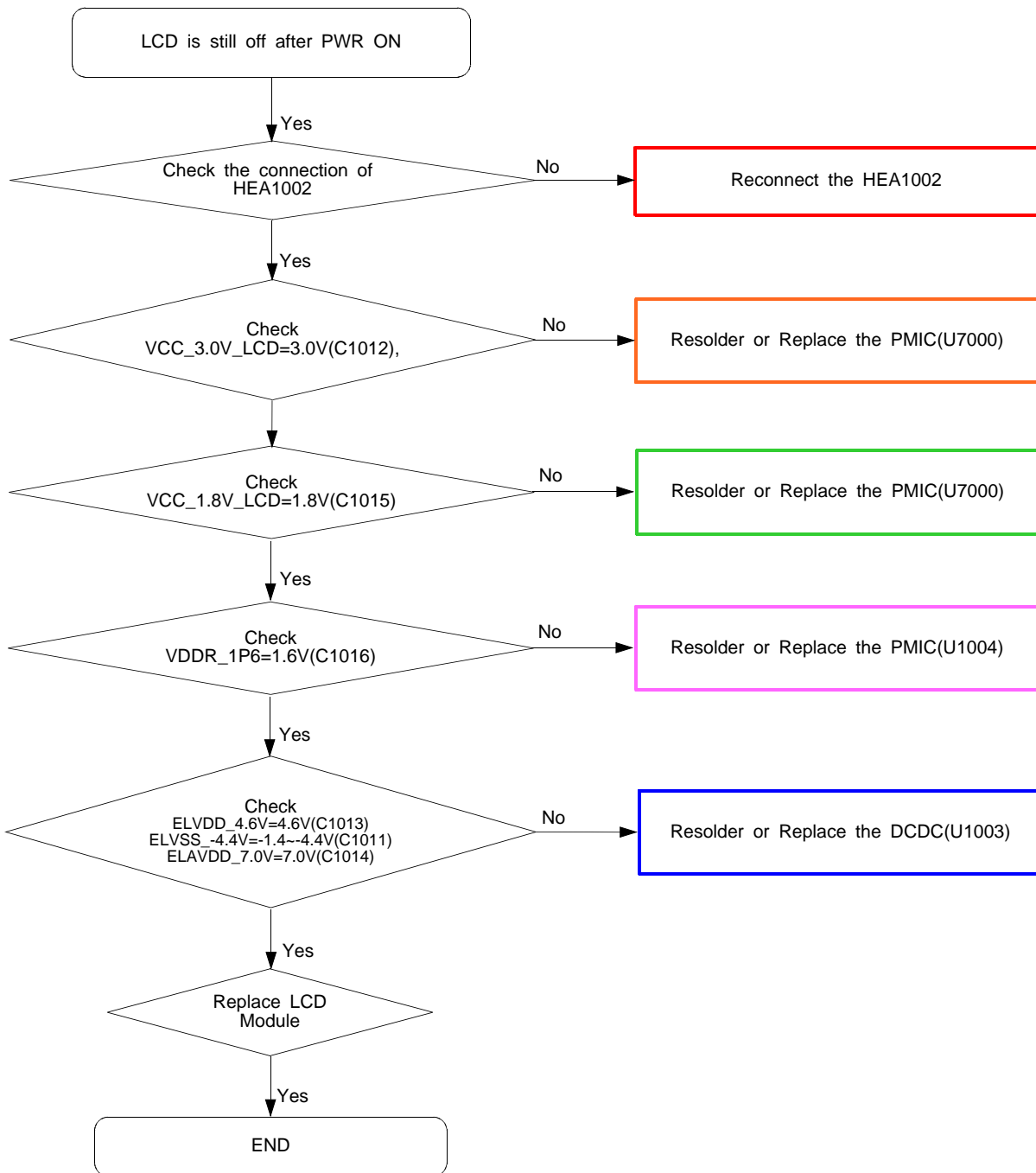


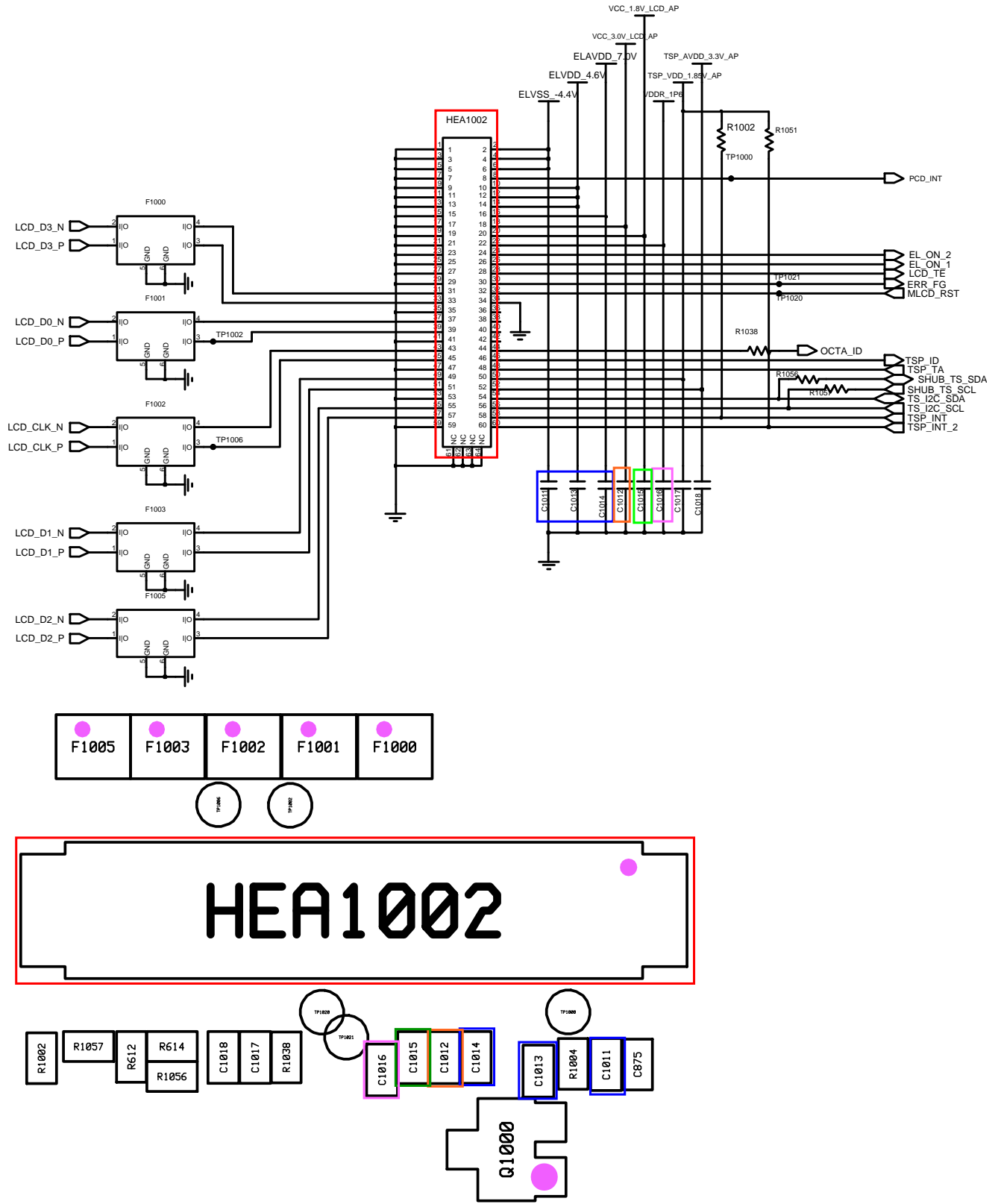
8-3-14. MHL

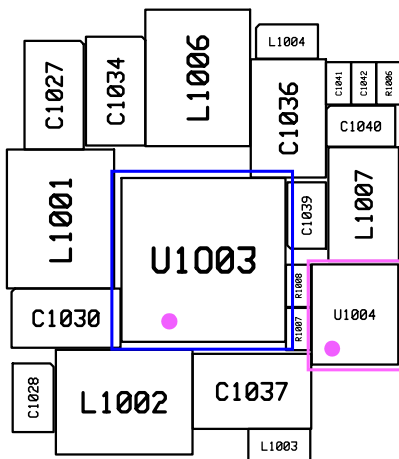
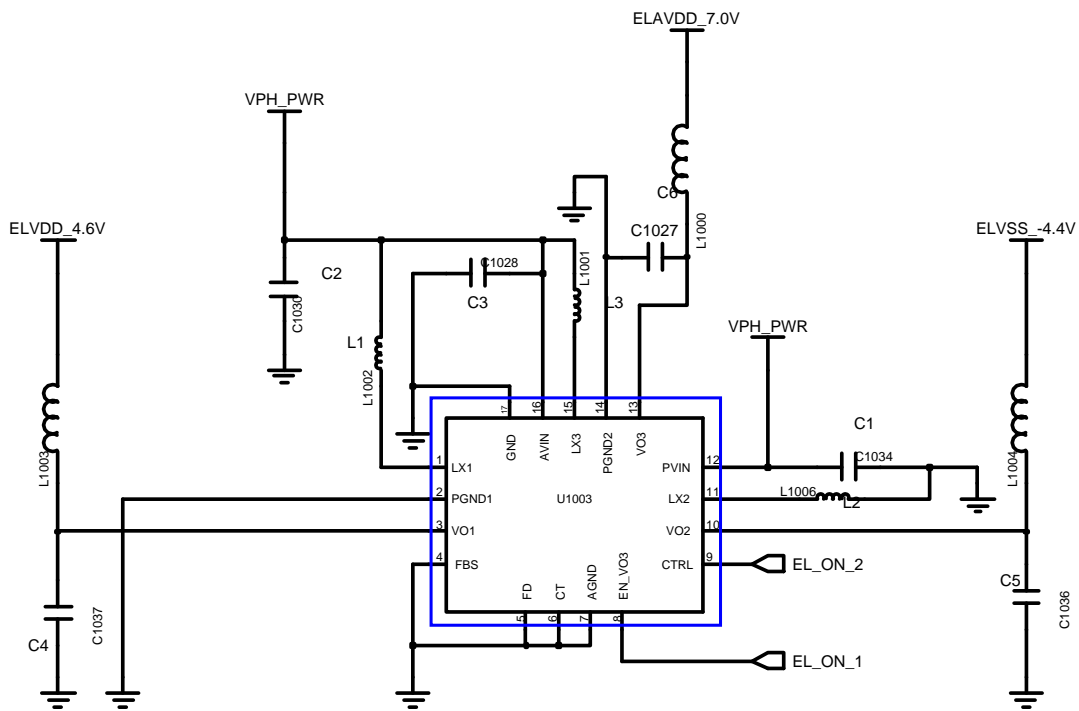
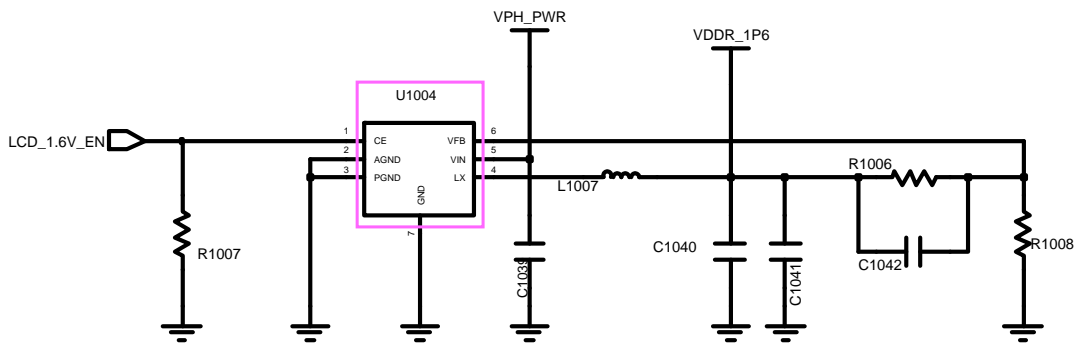




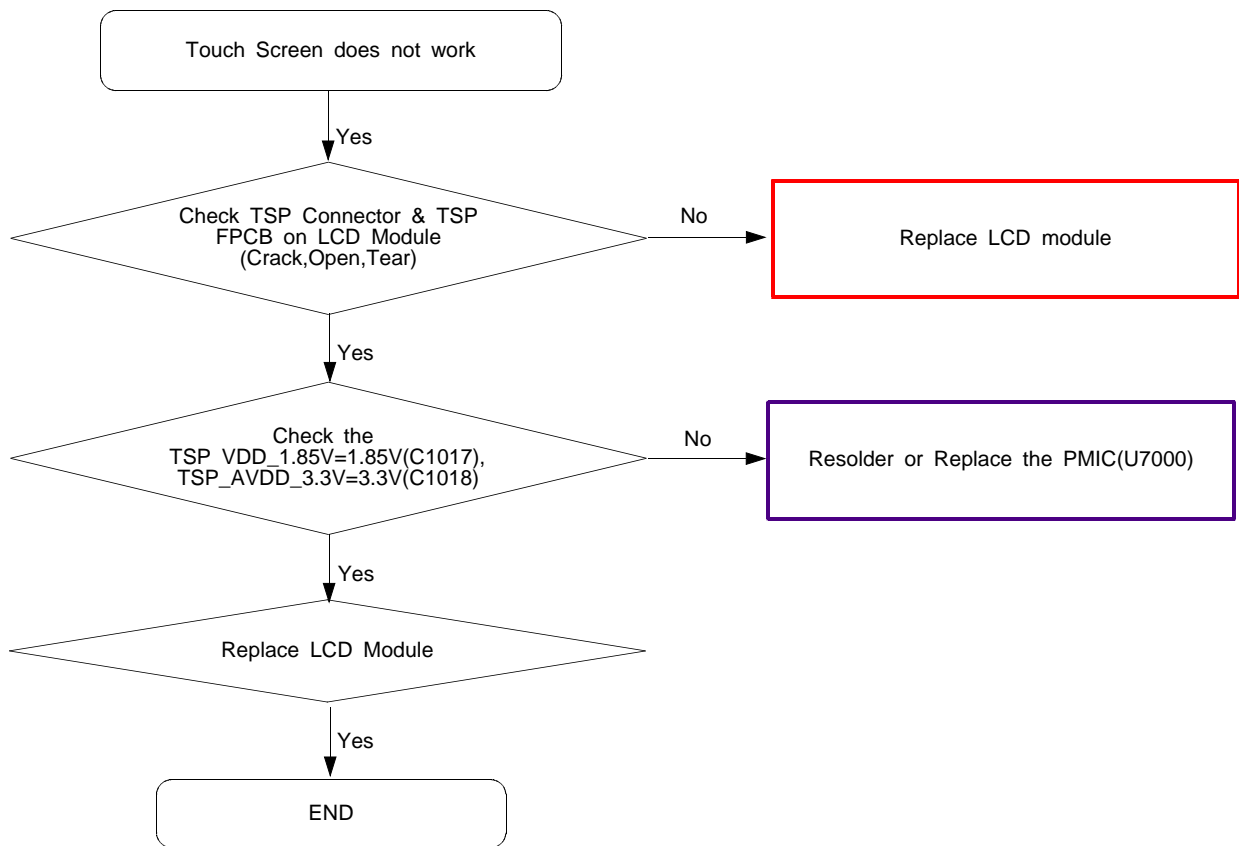
8-3-15. LCD

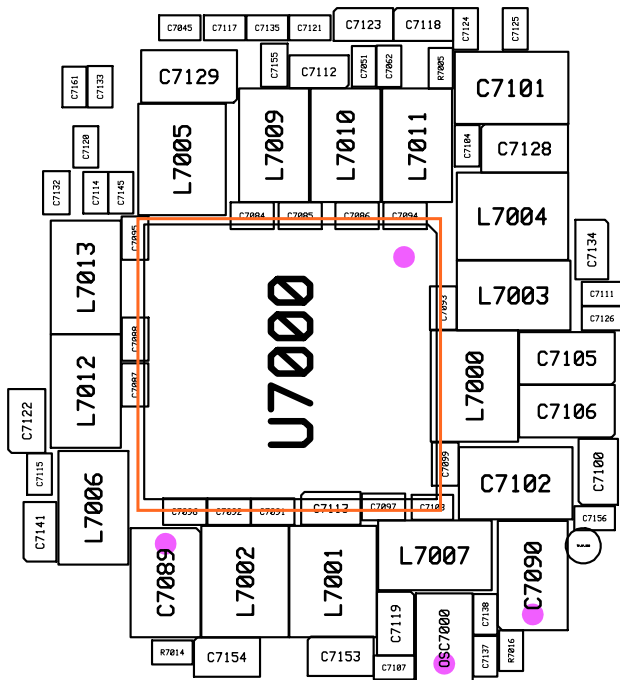
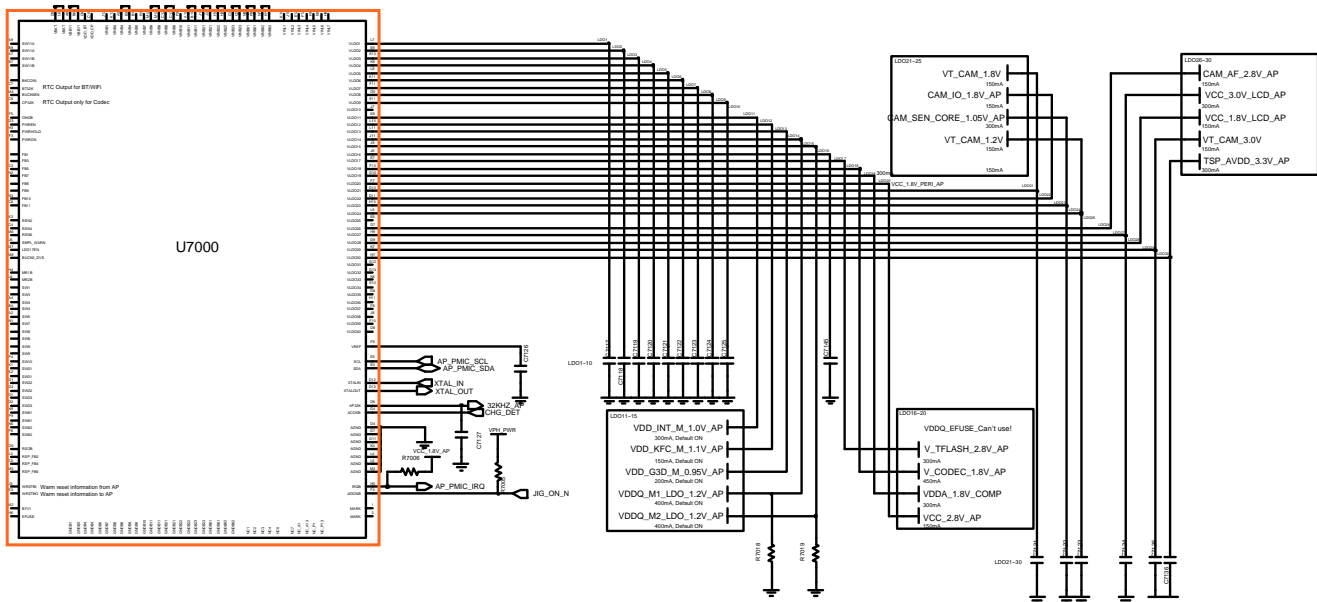




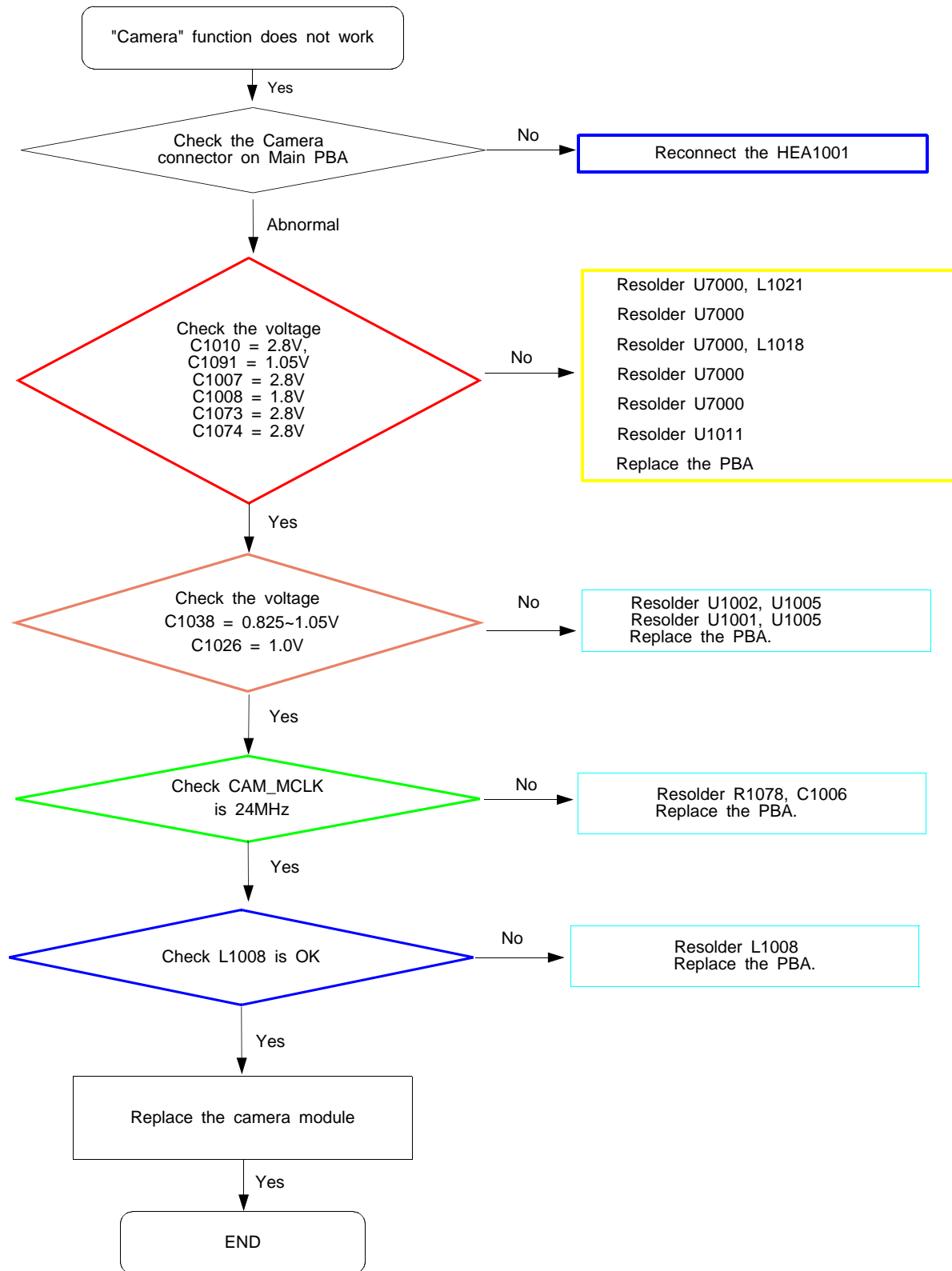


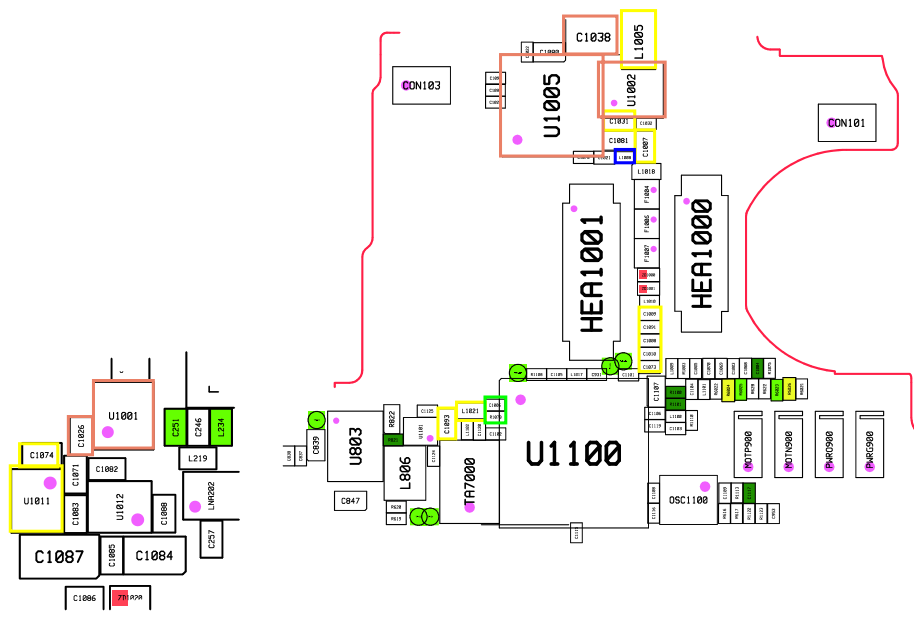
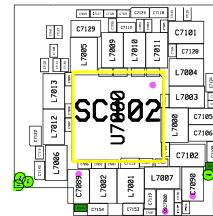
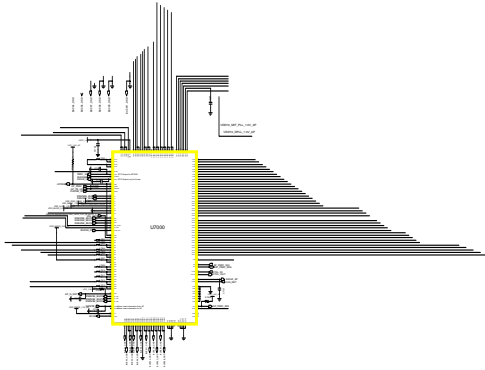
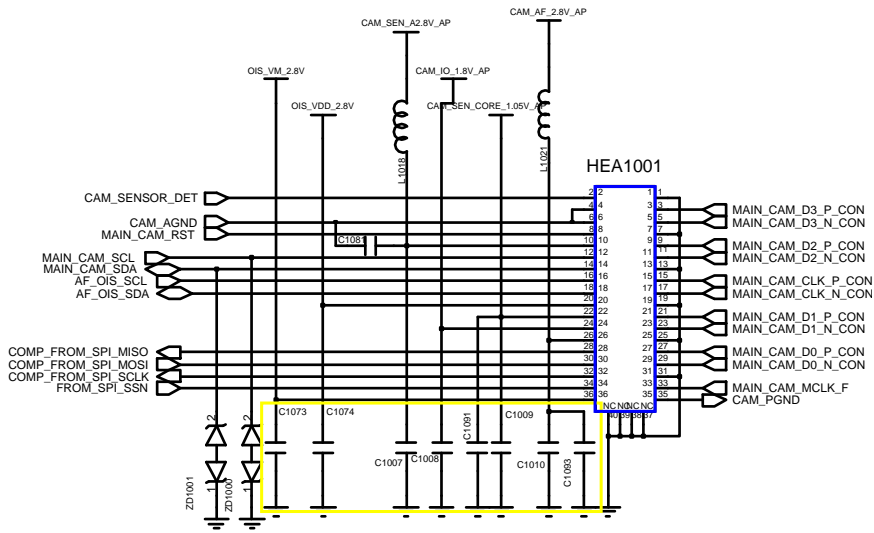
8-3-16. TSP

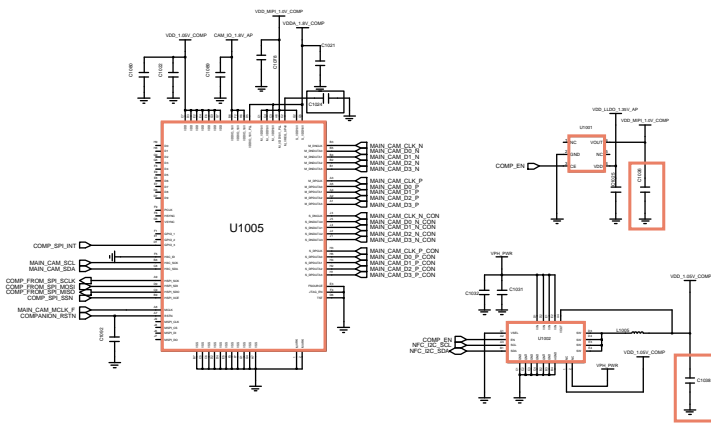




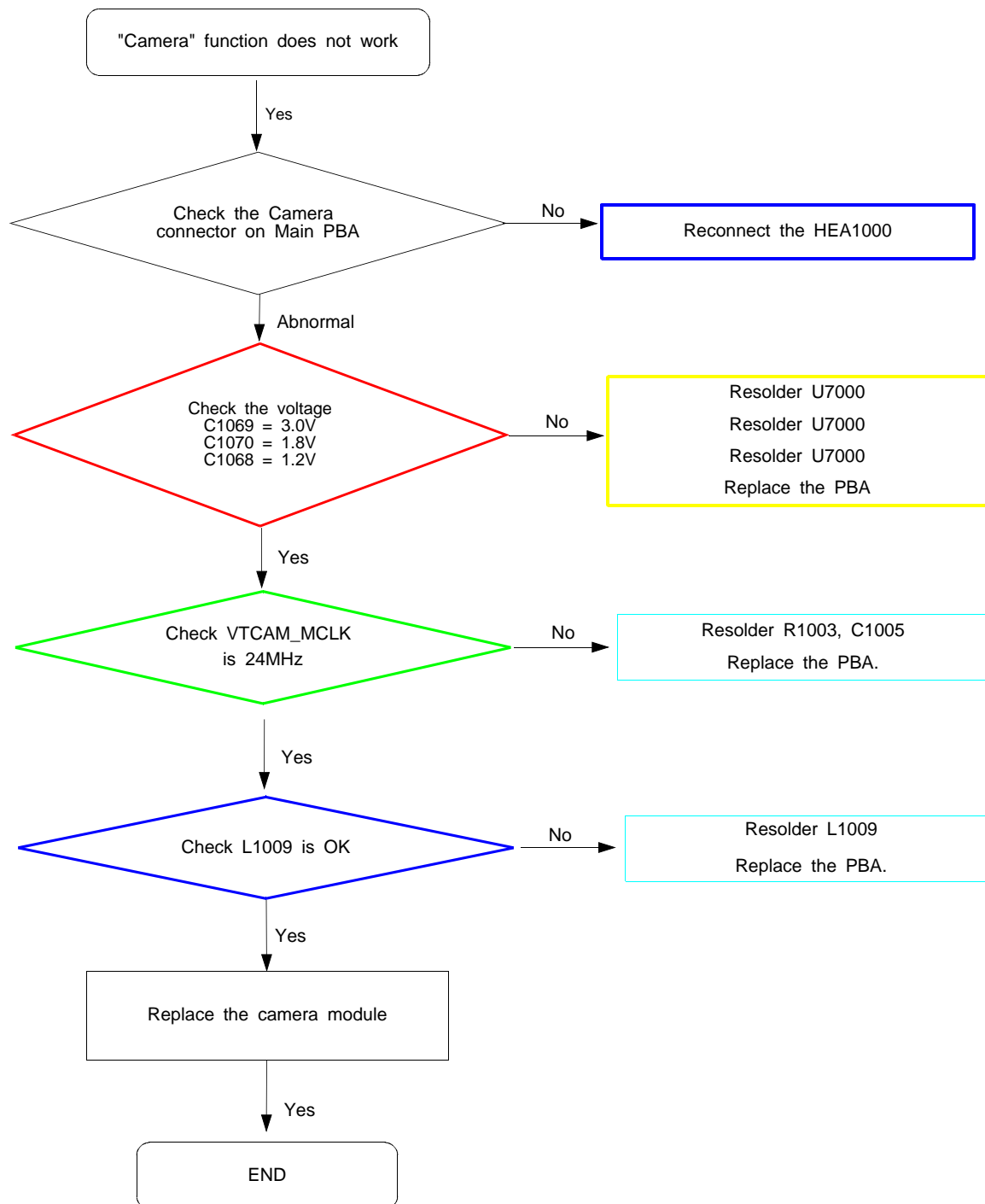
8-3-17. 16M CAM

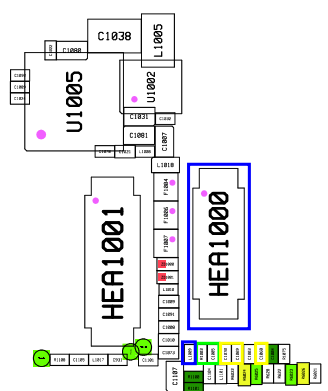
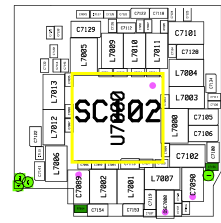
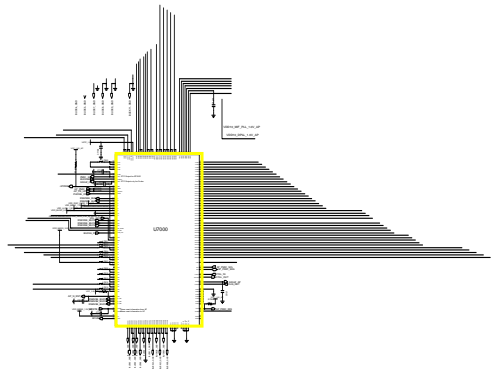
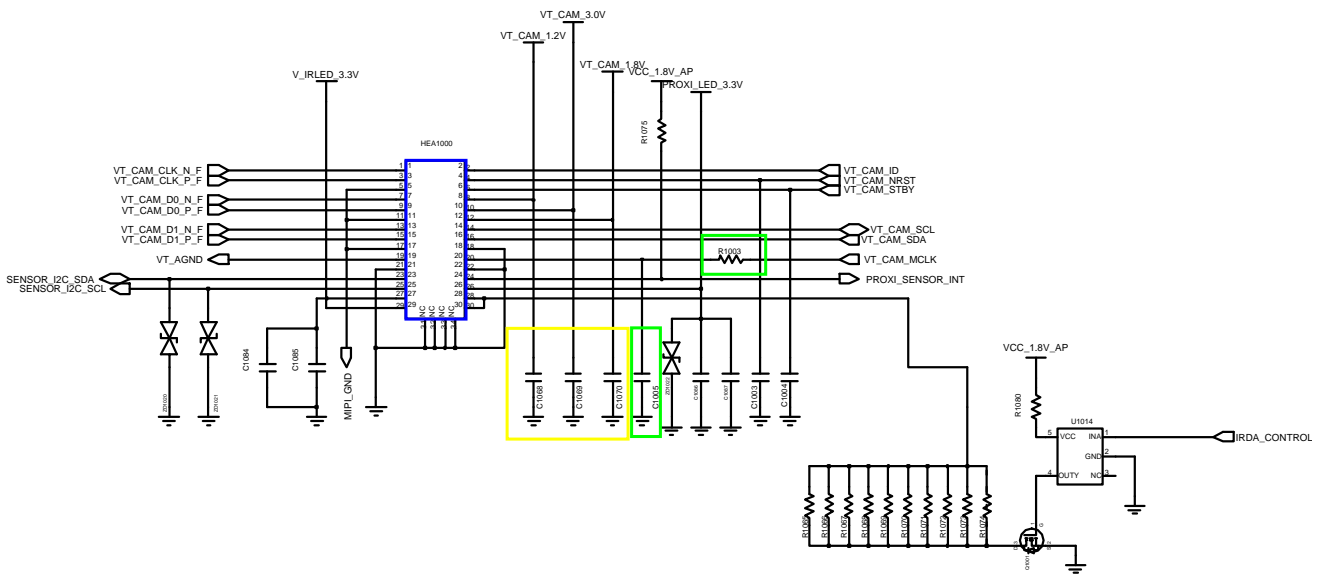




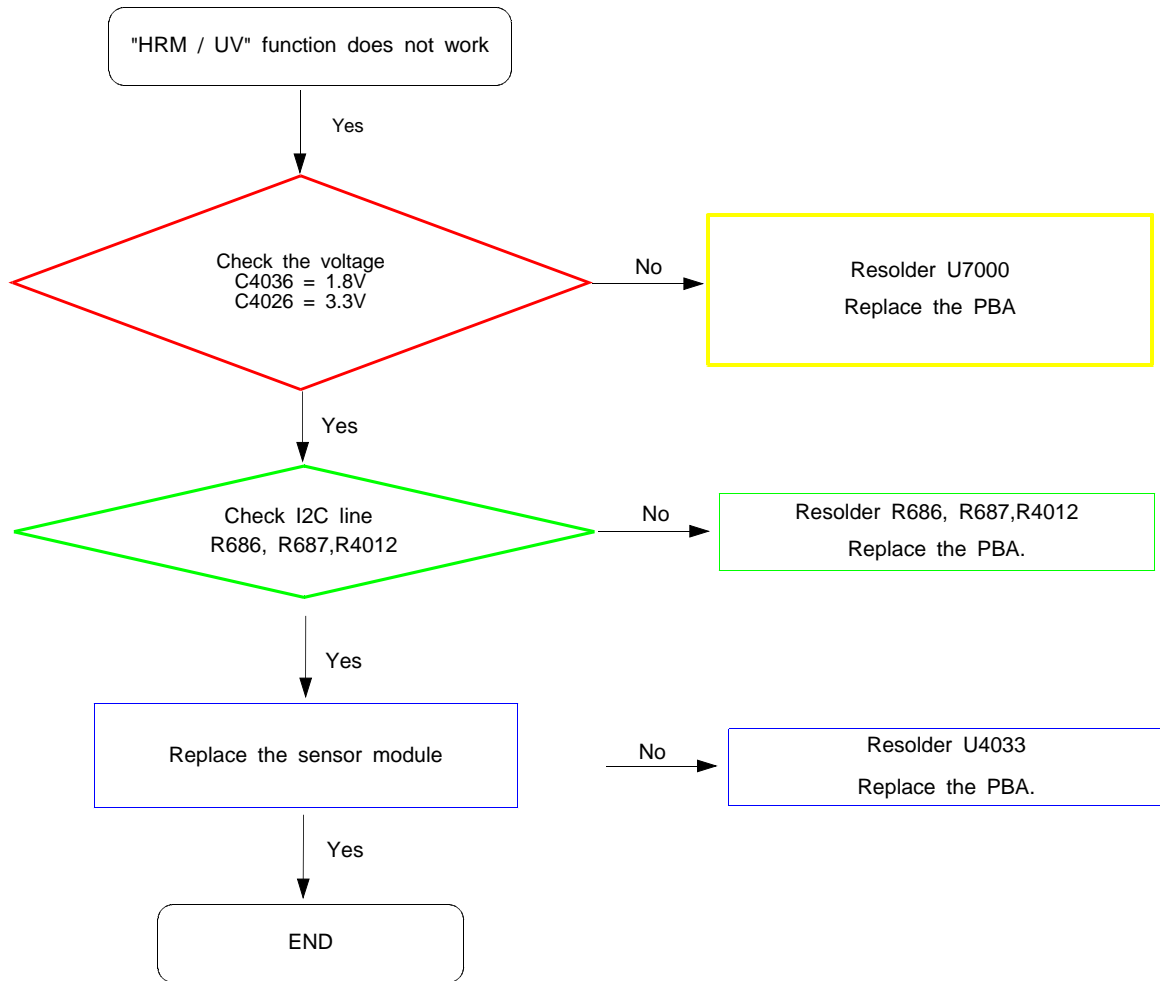


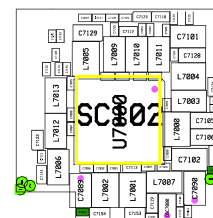
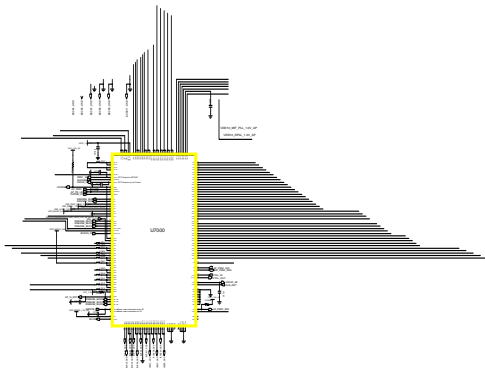
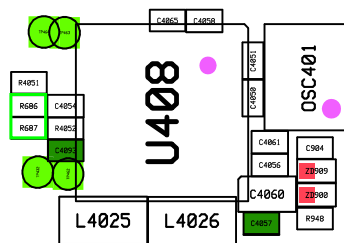
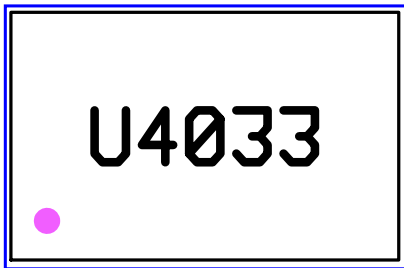
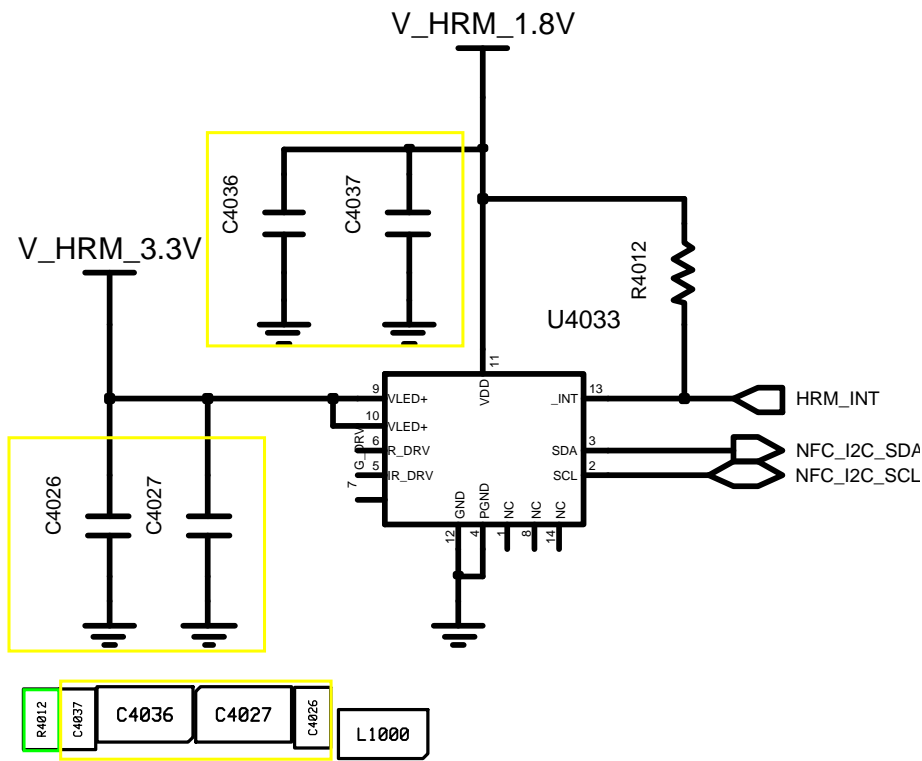
8-3-18. VT CAM



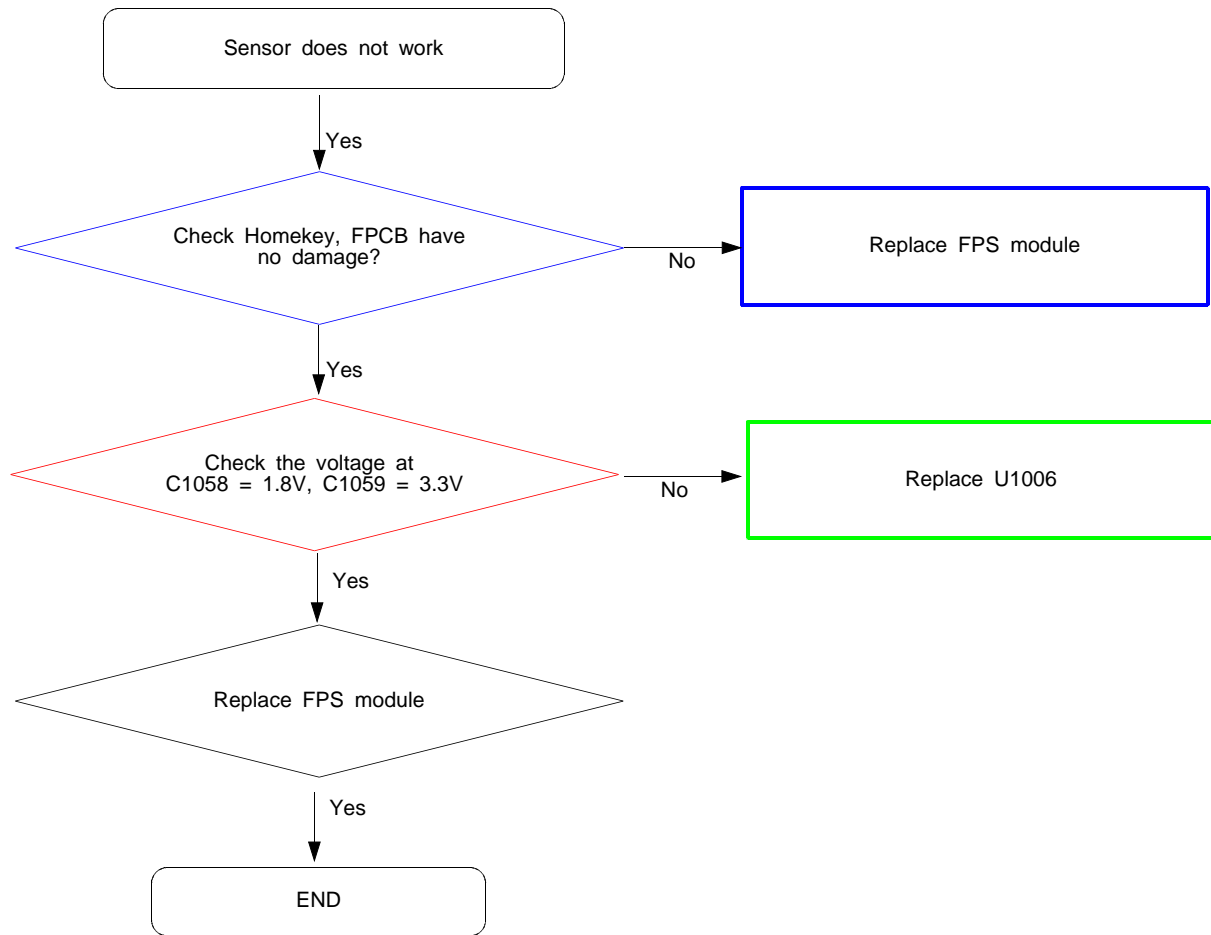


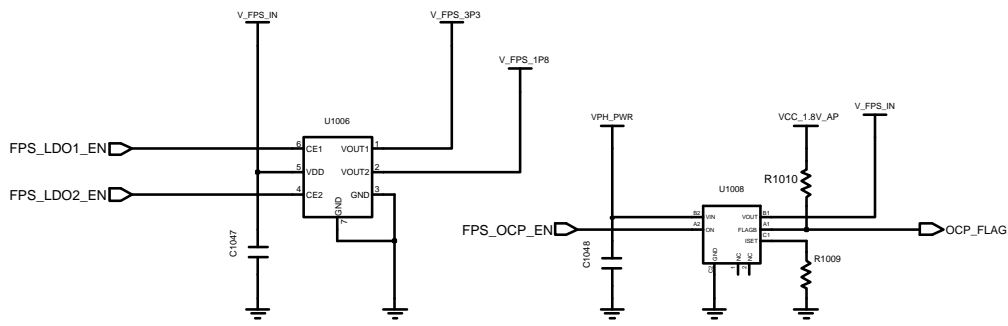
8-3-19. HRM / UV Sensor



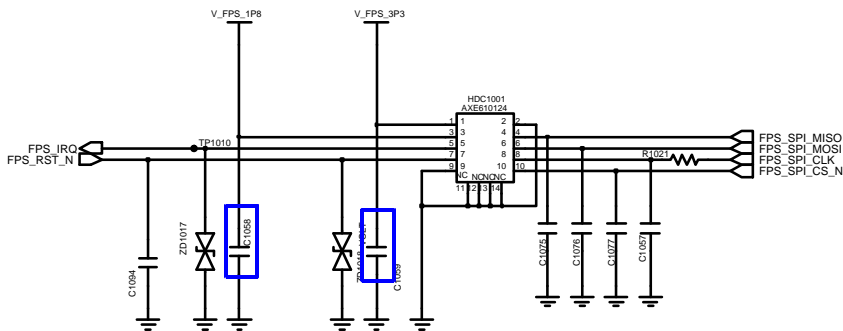


8-3-20. Finger Print Sensor

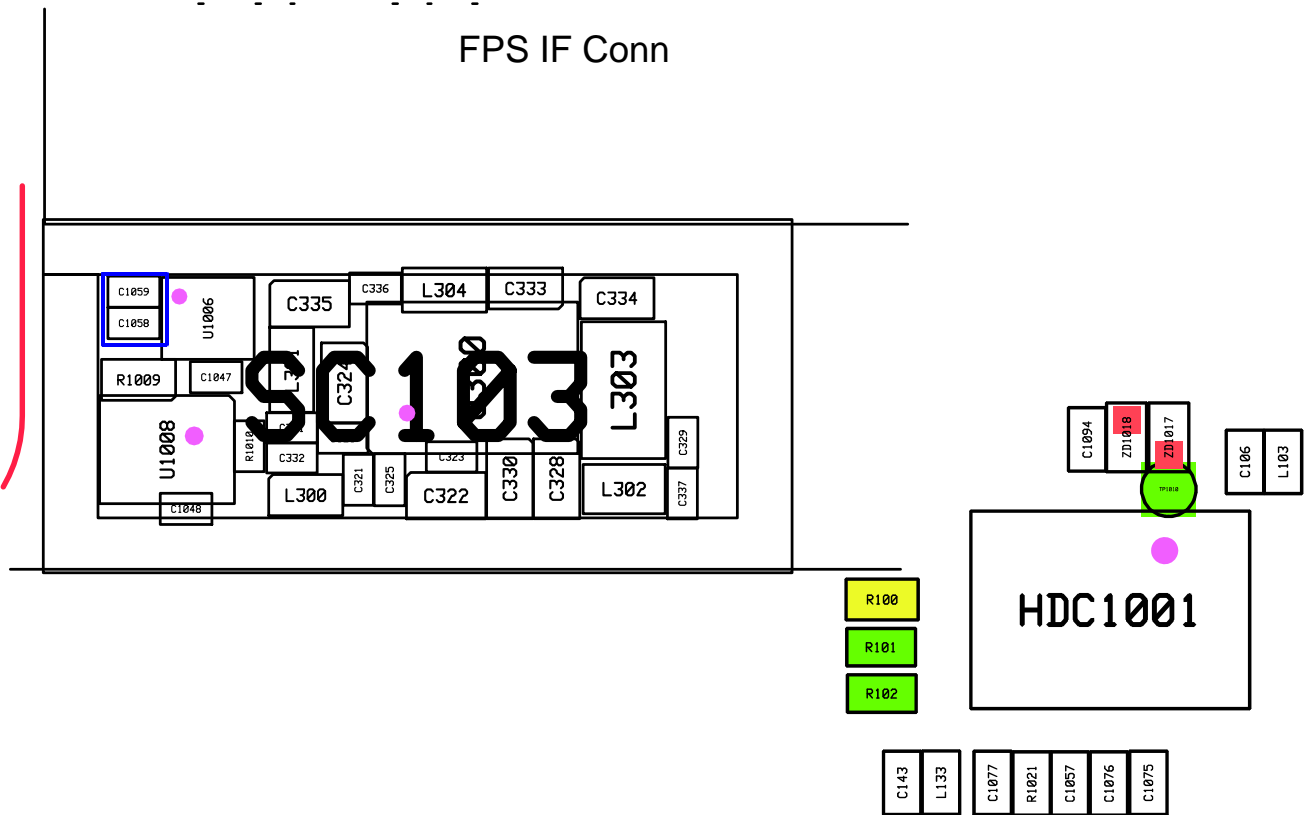




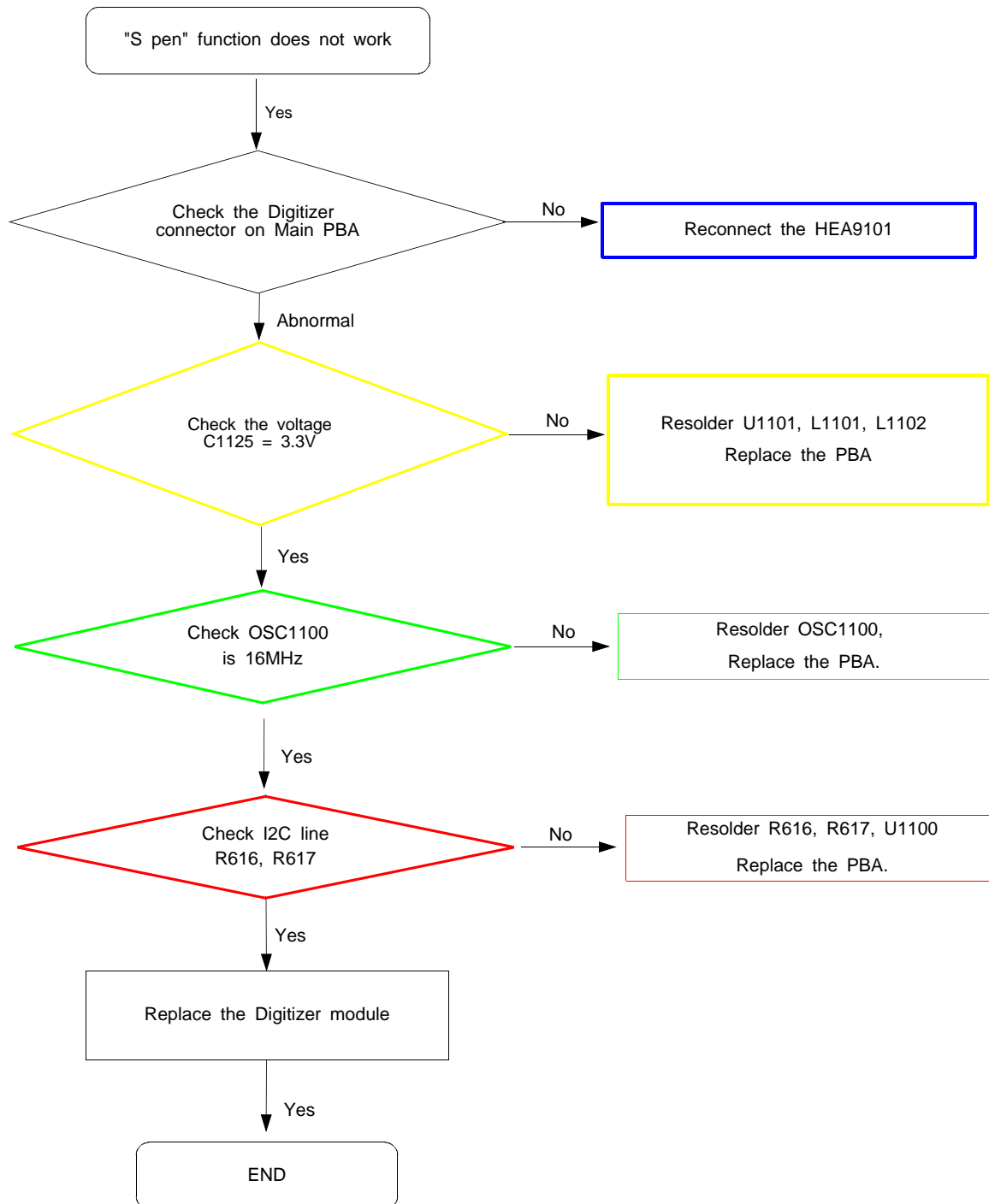
FPS OCP and PWR



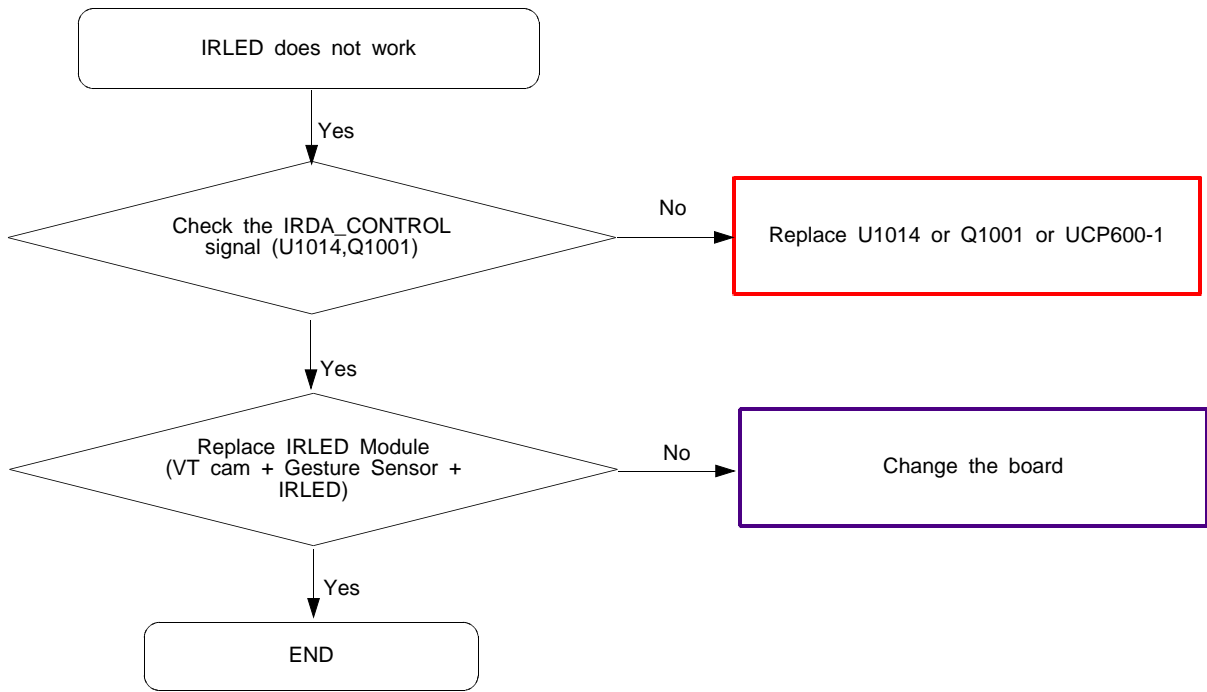
FPS IF Conn

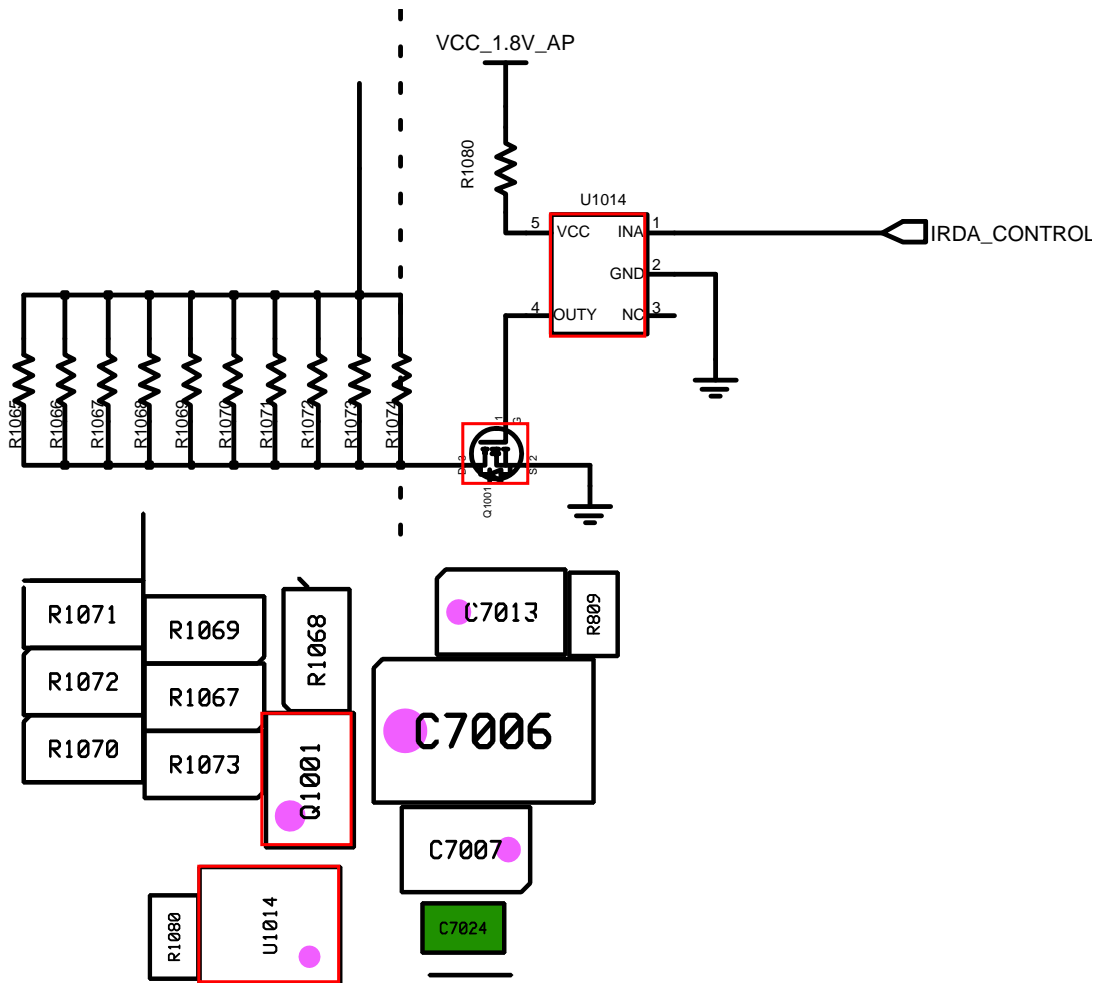


8-3-21. S pen

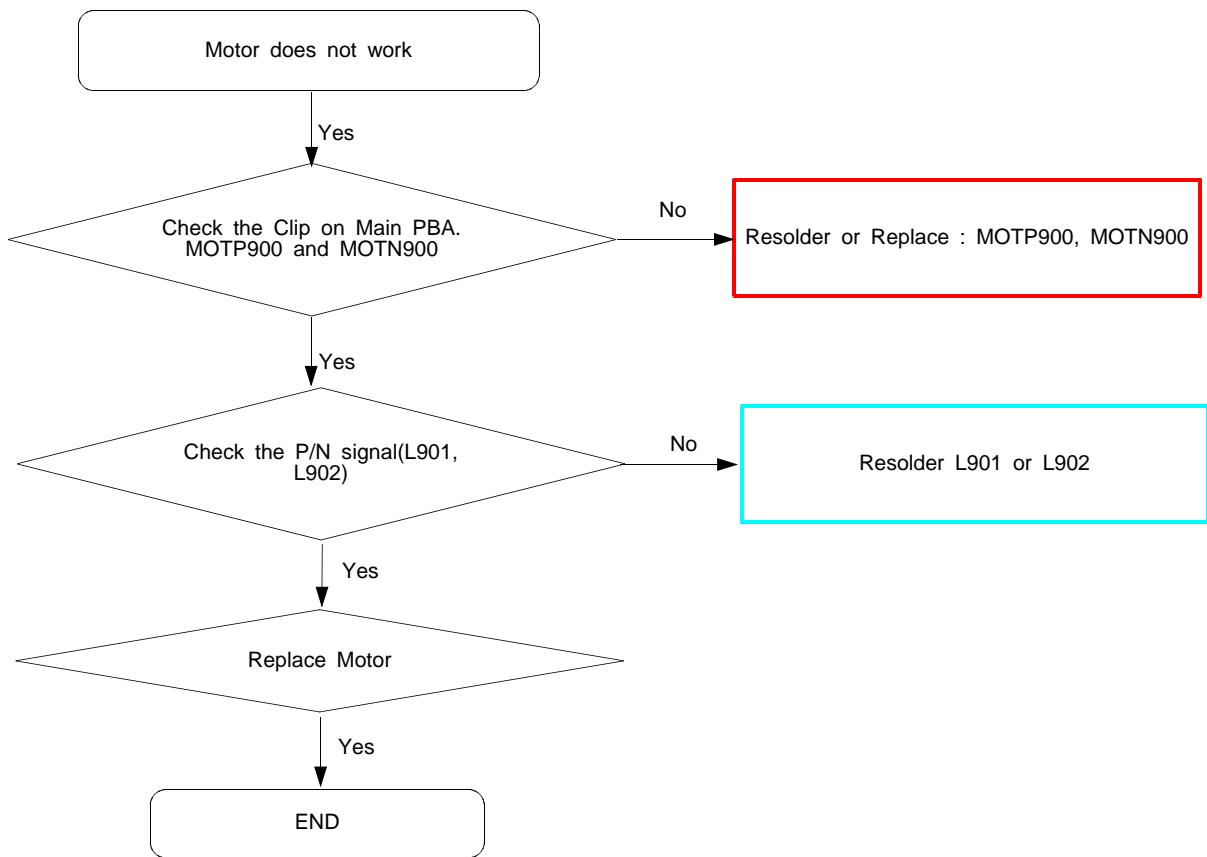


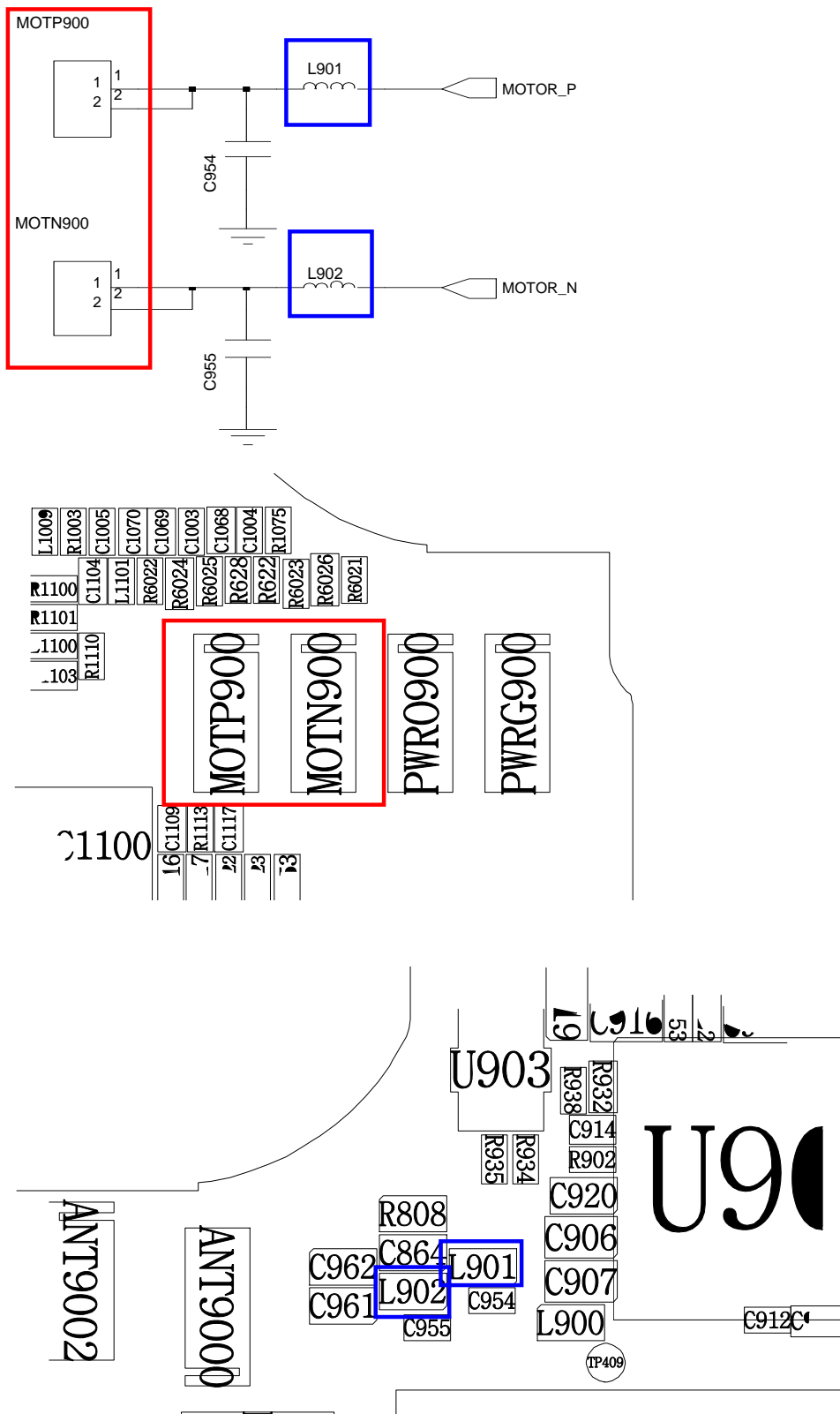
8-3-22. IRLED



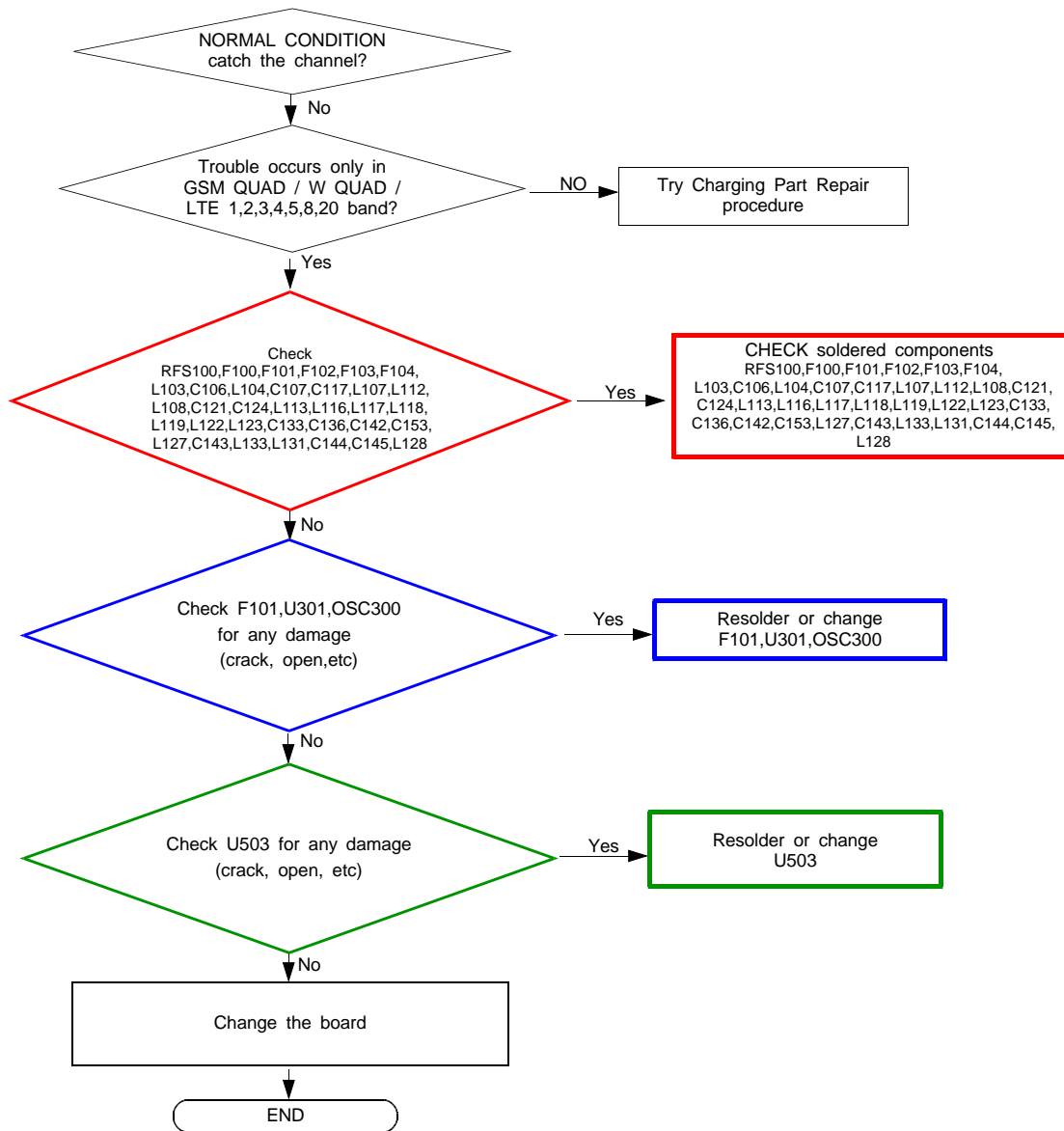


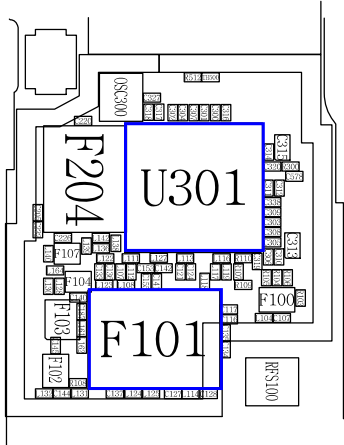
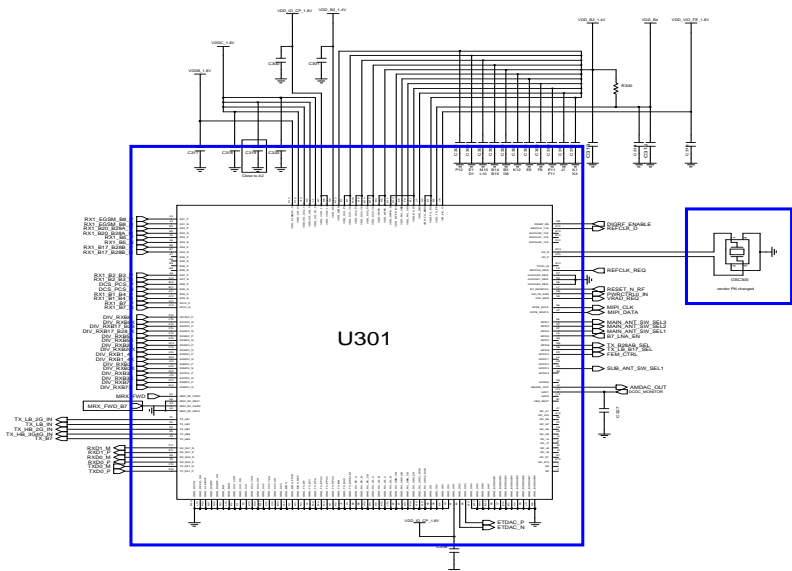
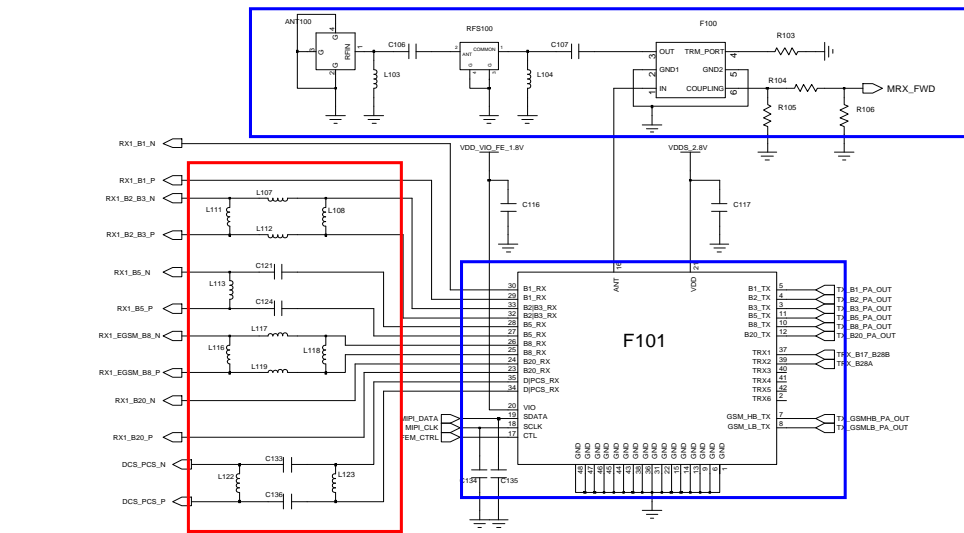
8-3-23. Motor



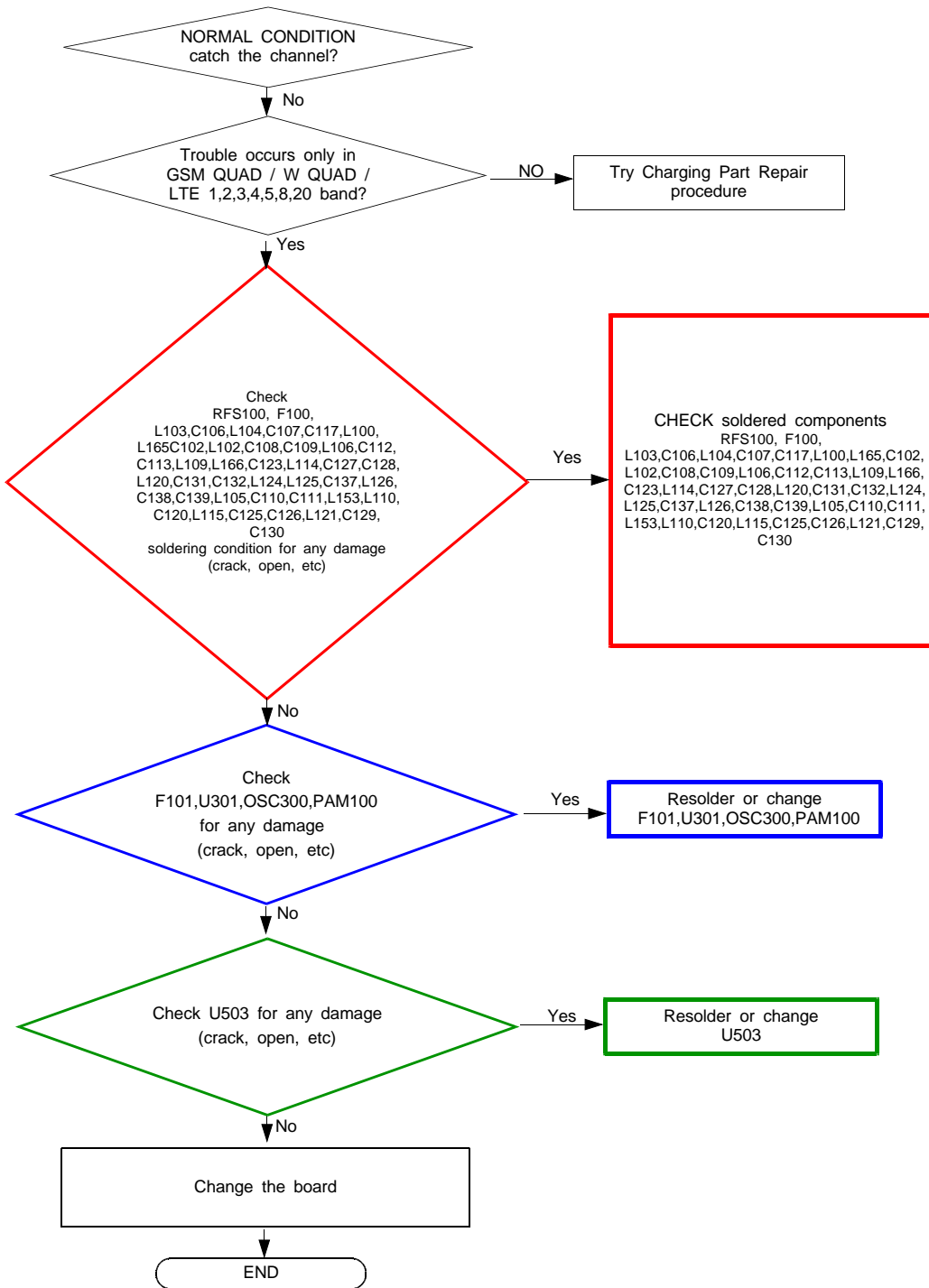


8-3-24. GSM 850,900,1800,1900 / WCDMA BAND 1,2,5,8 / LTE BAND 1,2,3,4,5,8,20 RX

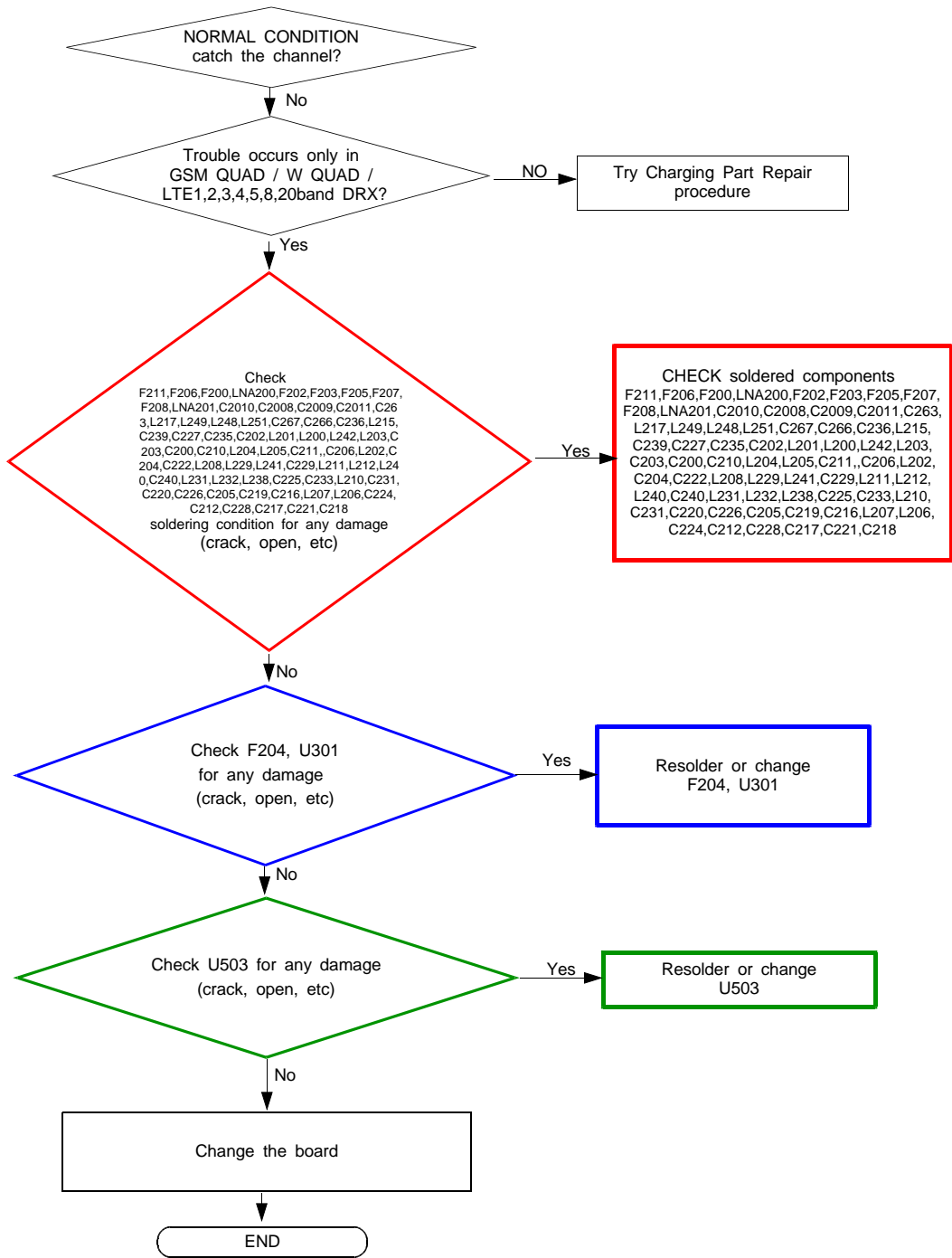


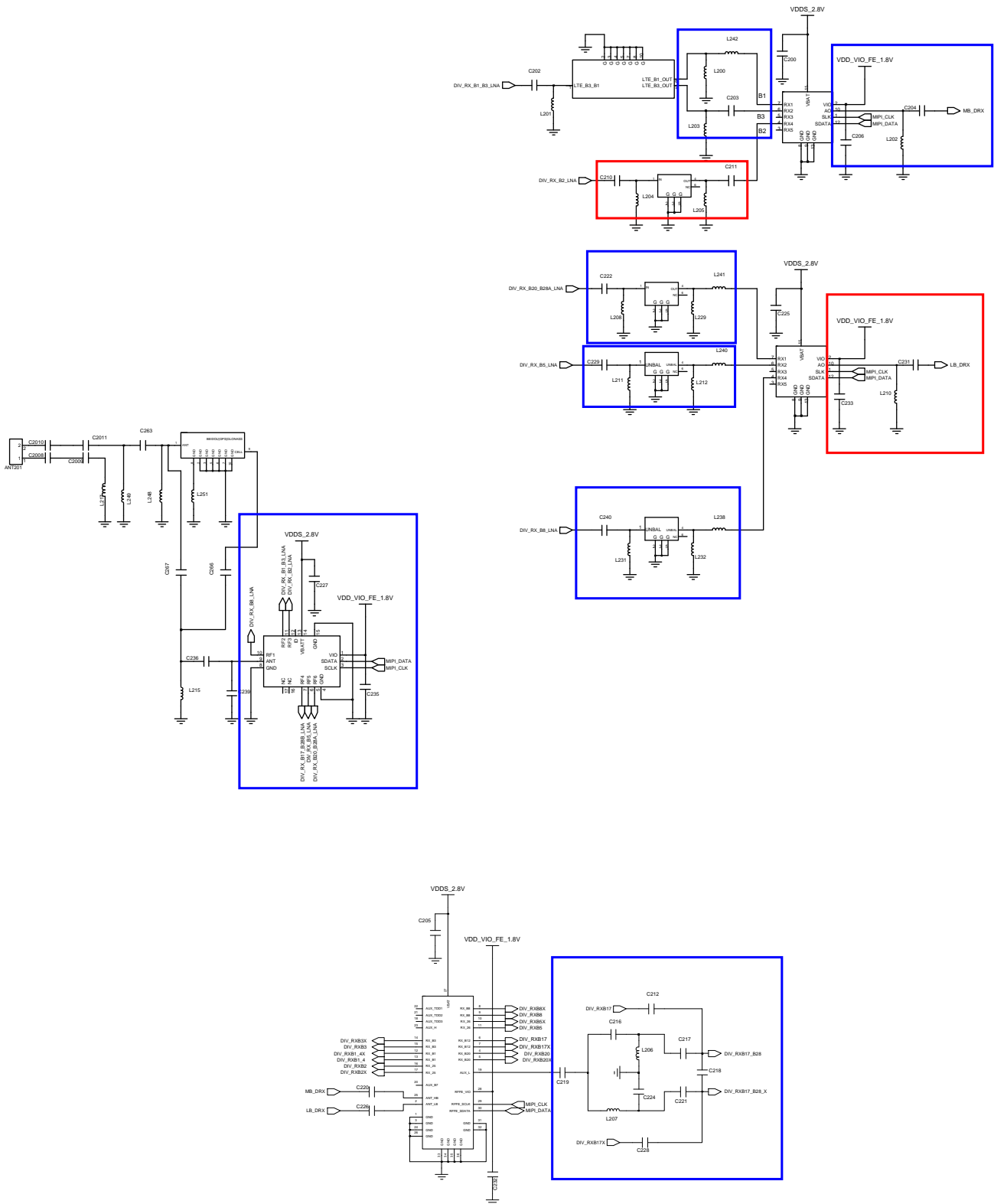


8-3-25. GSM 850,900,1800,1900 / WCDMA BAND 1,2,5,8 / LTE BAND 1,2,3,4,5,8,20 TX

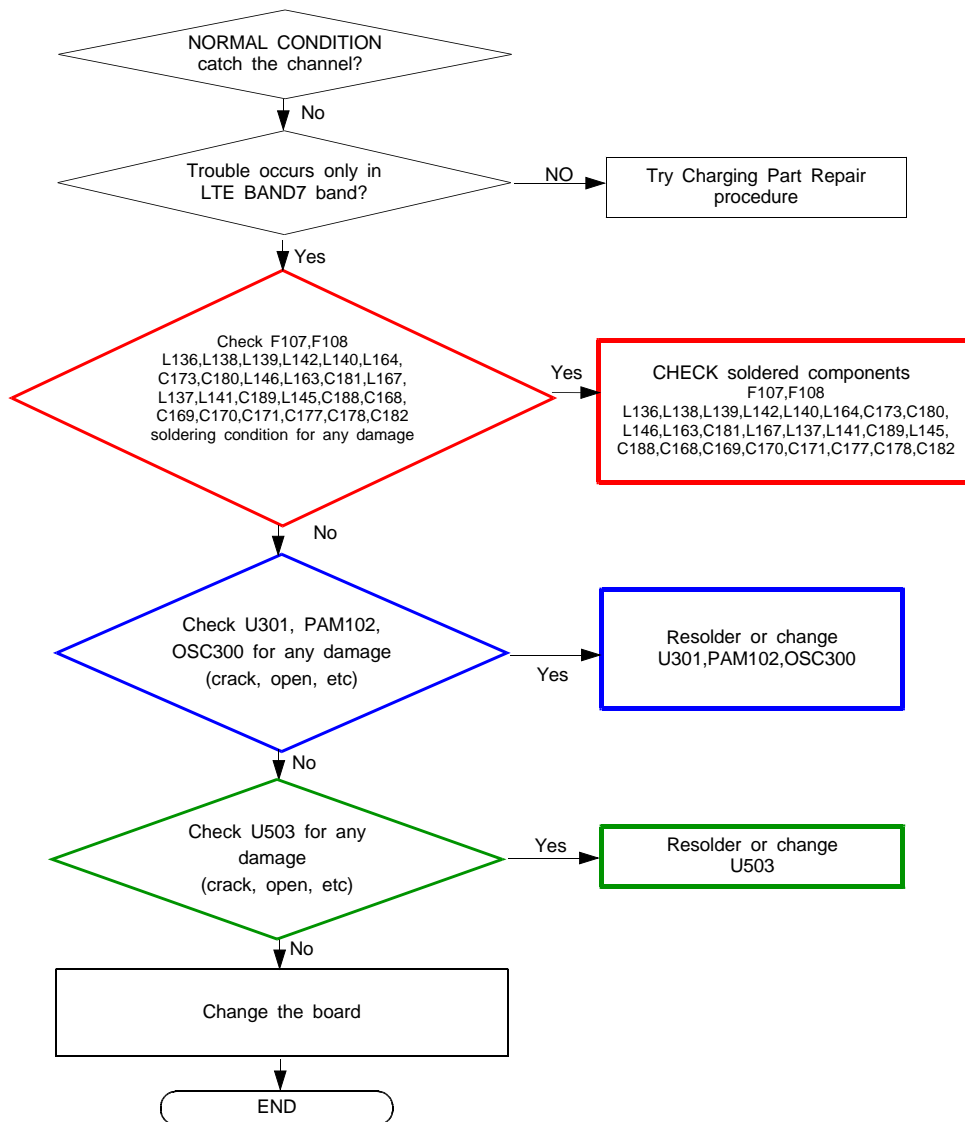


8-3-26. GSM 850,900,1800,1900 / WCDMA BAND 1,2,5,8 / LTE BAND 1,2,3,4,5,8,17,20 DRX

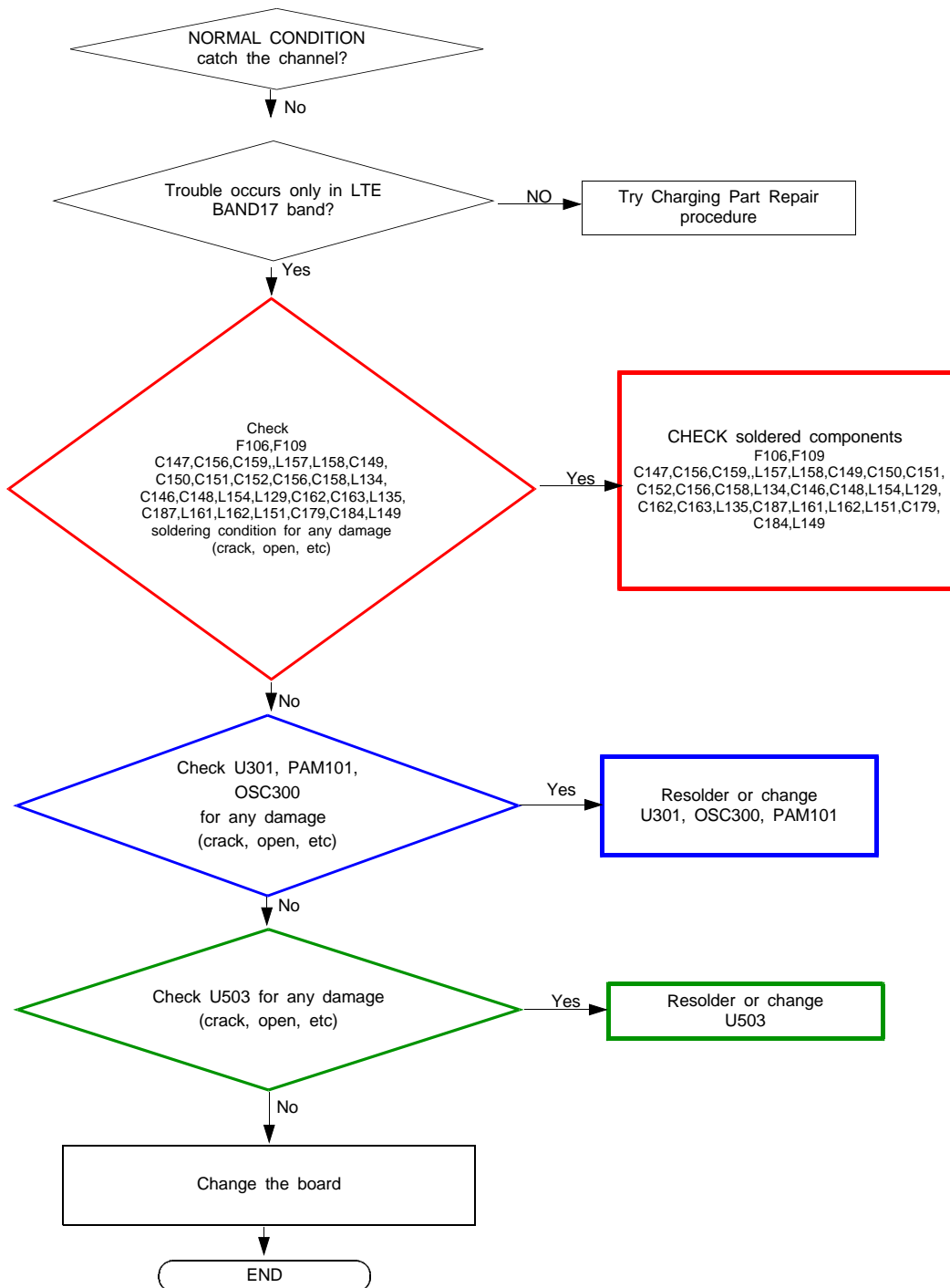


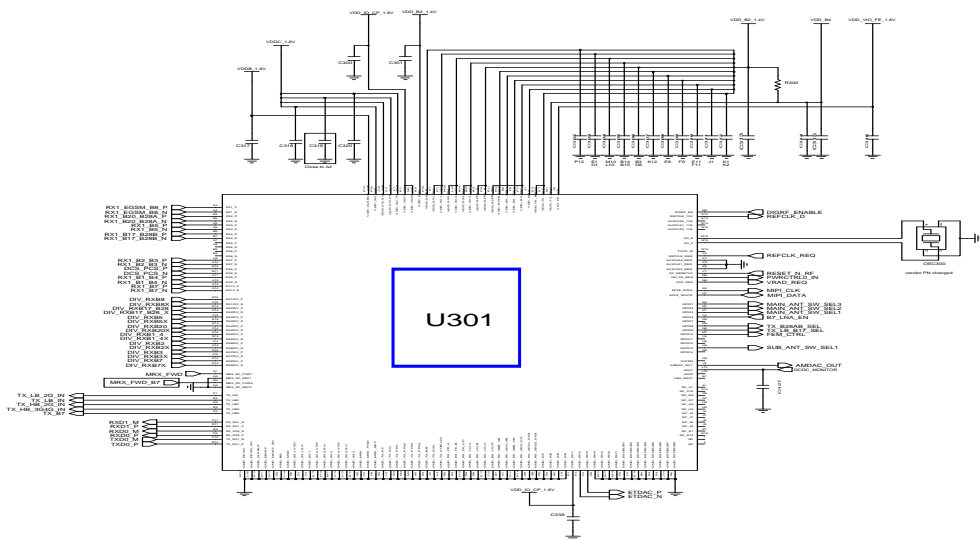
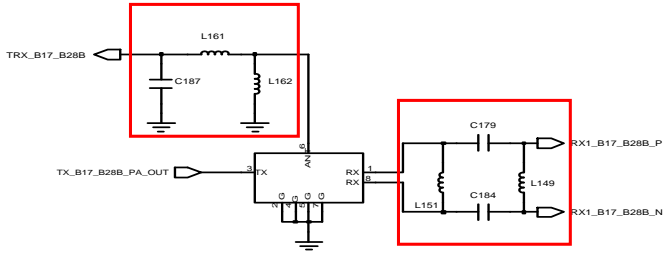
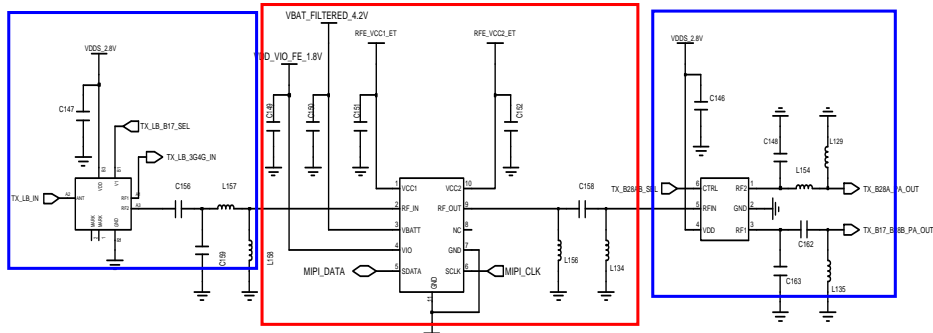


8-3-27. LTE BAND7 TX / RX

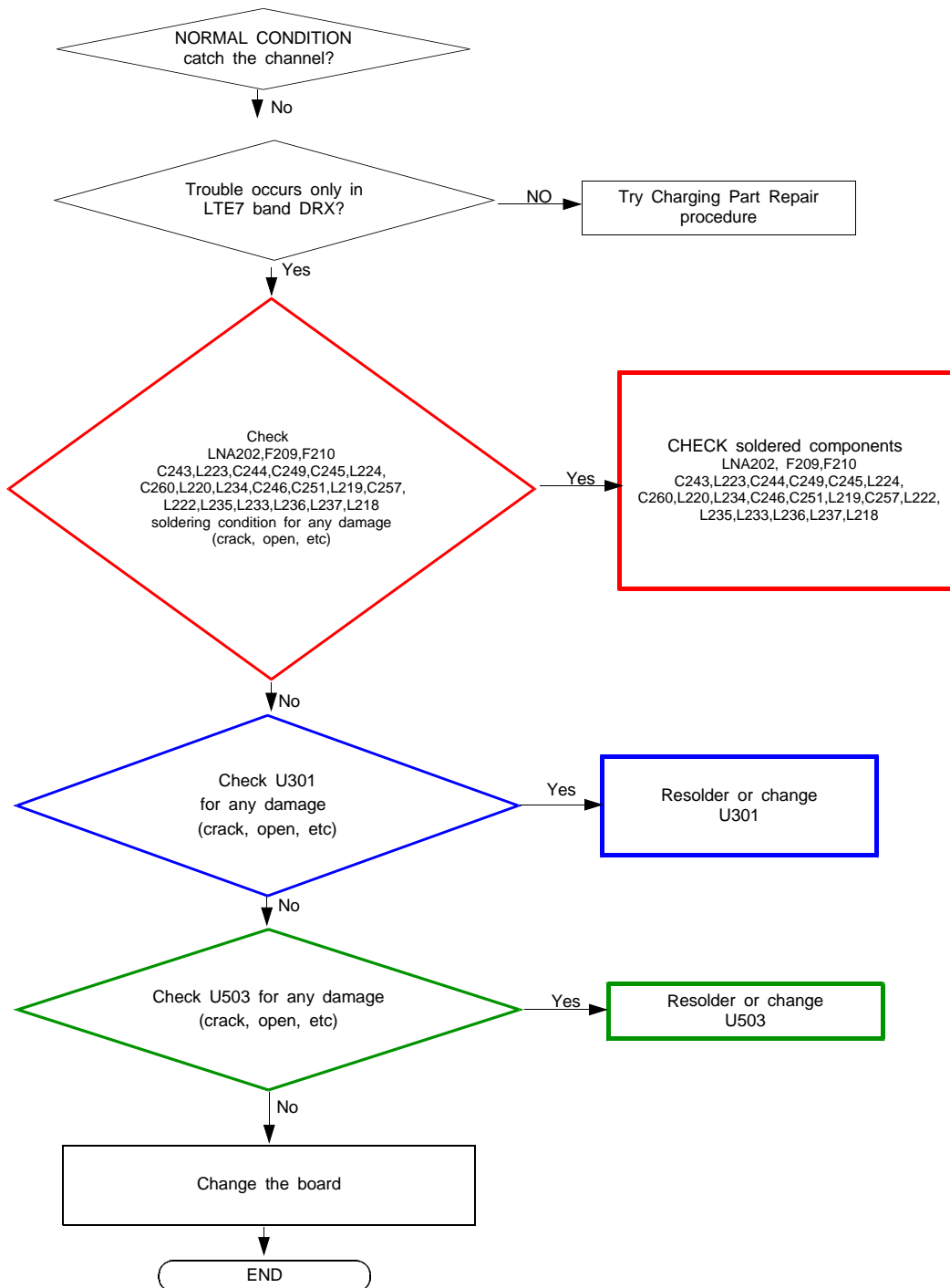


8-3-28. LTE BAND17 TX / RX





8-3-29. LTE BAND7 DRX



U7000(PMIC)

NC_A1	SW5	VINB4	SW4	GNDB4	VBB11	SW11B	GNDB11	SW11A	VINB11	GNDB9	GNDB9	NC_A13
VINB5	GNDB5	VINB4	SW4	GNDB4	VBB11	SW11B	GNDB11	SW11A	VINB11	FB9	SW9	SW9
VINB23	VINB23	FB5	RSN4	RSP_FB4	FB11	BT32K	VDD_BT	CP32K	VDD_CP	BKCOIN	VINB9	VINB9
SW23	SW23	NC1	AGND	VBAT	AP32K	VLDO26	VLDO40	VLDO8	VLDO21	VLDO22	XTALIN	XTALOUT
GNDB23	GNDB23	WRSTBO	SDA	SCL	VLDO25	VLDO17	VINL6	VLDO2	VLDO34	VLDO9	VINL3	VLDO3
GNDB22	GNDB22	PWRON	JIGONB	ONOB	VREF	VLDO20	VLDO37	VINL5	VLDO39	VLDO7	VINL4	VLDO18
SW22	SW22	PWREN	ACOKB	RSOB	NC5	AGND	VLDO35	VLDO28	VLDO19	AGND	VLDO31	VLDO32
VINB22	VINB22	PWRHOLD	MR1B	IRQB	EFUSE	VLDO30	VINL7	VLDO27	VLDO23	VLDO36	FB1	GNDB1
VINB21	VINB21	WRSTBI	MR2B	SMPL_WARN	VLDO16	VLDO10	VLDO38	VLDO15	VINL2	VLDO14	VINB1	SW1
SW21	SW21	RSN2	AGND	NC7	VLDO33	VLDO29	VLDO4	VLDO11	VINL1	VLDO6	FB3	VINB3
GNDB21	GNDB21	RSP_FB2	AGND	AGND	VBAT	VLDO1	VLDO5	VLDO24	VLDO12	VLDO13	GNDB3	SW3
GNDB7	B7V1	AGND	BUCK6_EN	RSP_FB6	RSN6	LDO17_EN	BUCK6_DVS	NC2	NC3	NC4	VINB8	VINB8
SW7	FB7	FB10	GNDB10	GNDB62	SW62	VINB62	VINB61	SW61	GNDB61	FB8	SW8	SW8
NC_P1	VINB7	VINB10	SW10	GNDB62	SW62	VINB62	VINB61	SW61	GNDB61	GNDB8	GNDB8	NC_P13