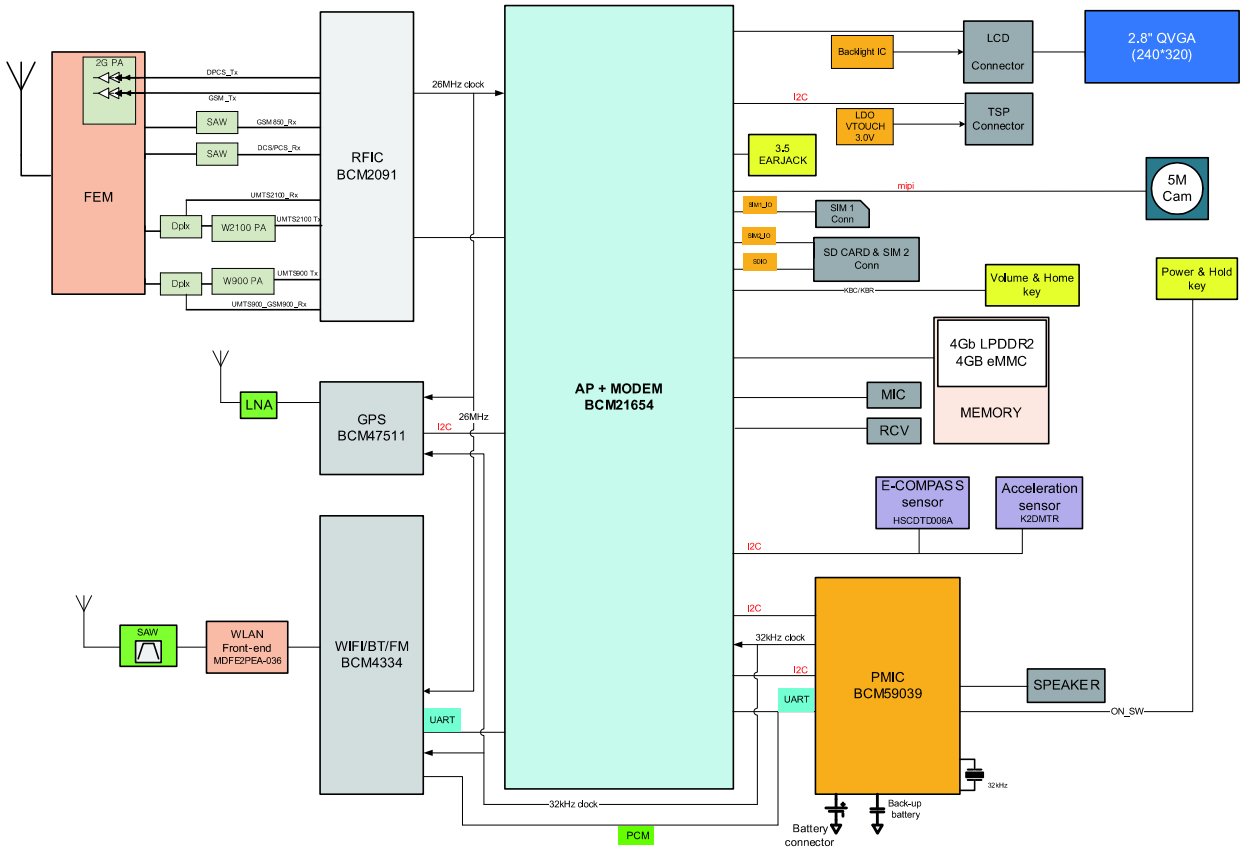
8. Level 3 Repair

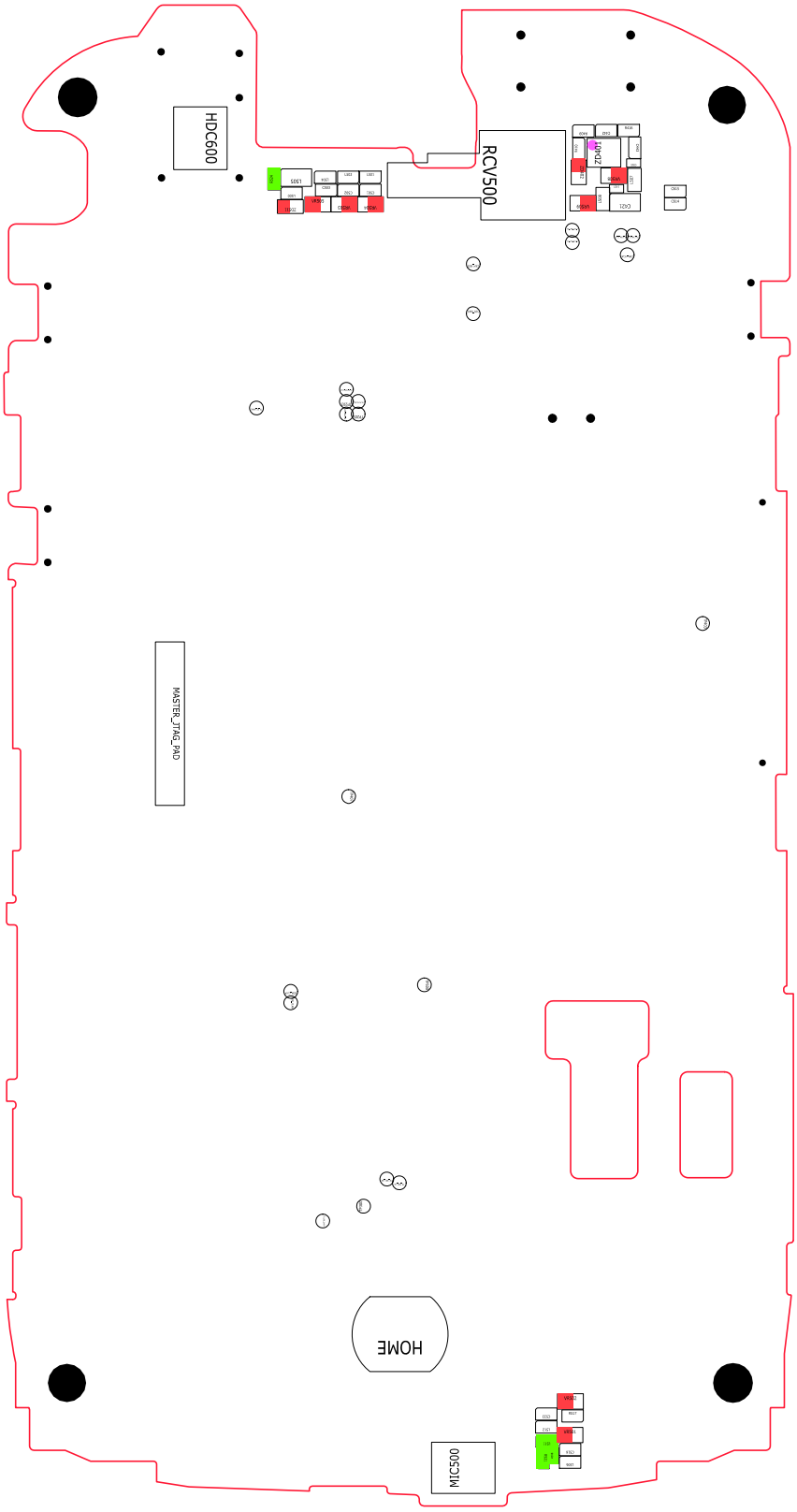
8-1. Block Diagram



8-2. PCB Diagrams

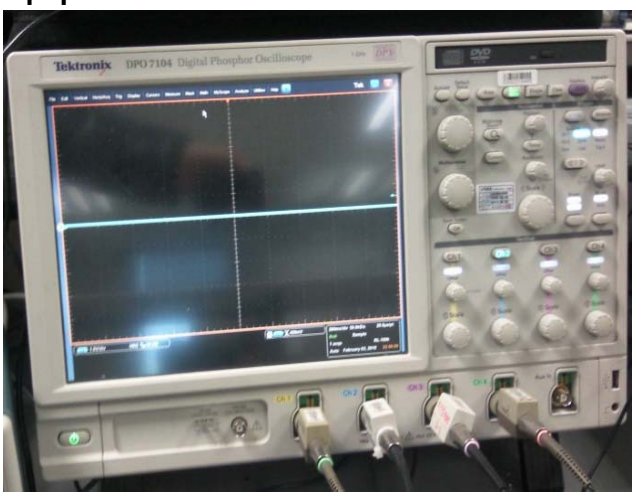
8-2-1. Top

8-2-2. Bottom



8-3. Flow Chart of Troubleshooting

Equipments

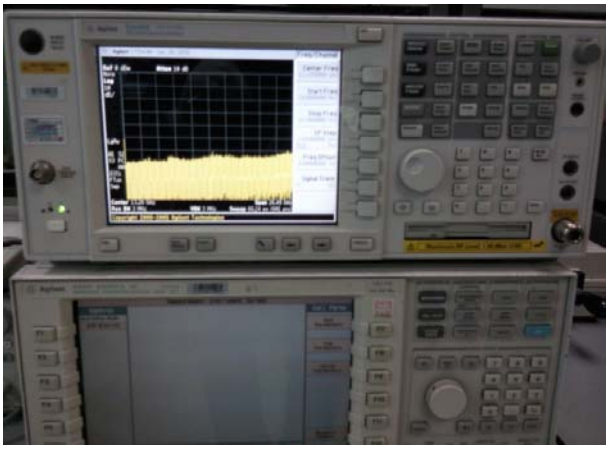


Oscilloscope

Digital Multimeter

Power Supply

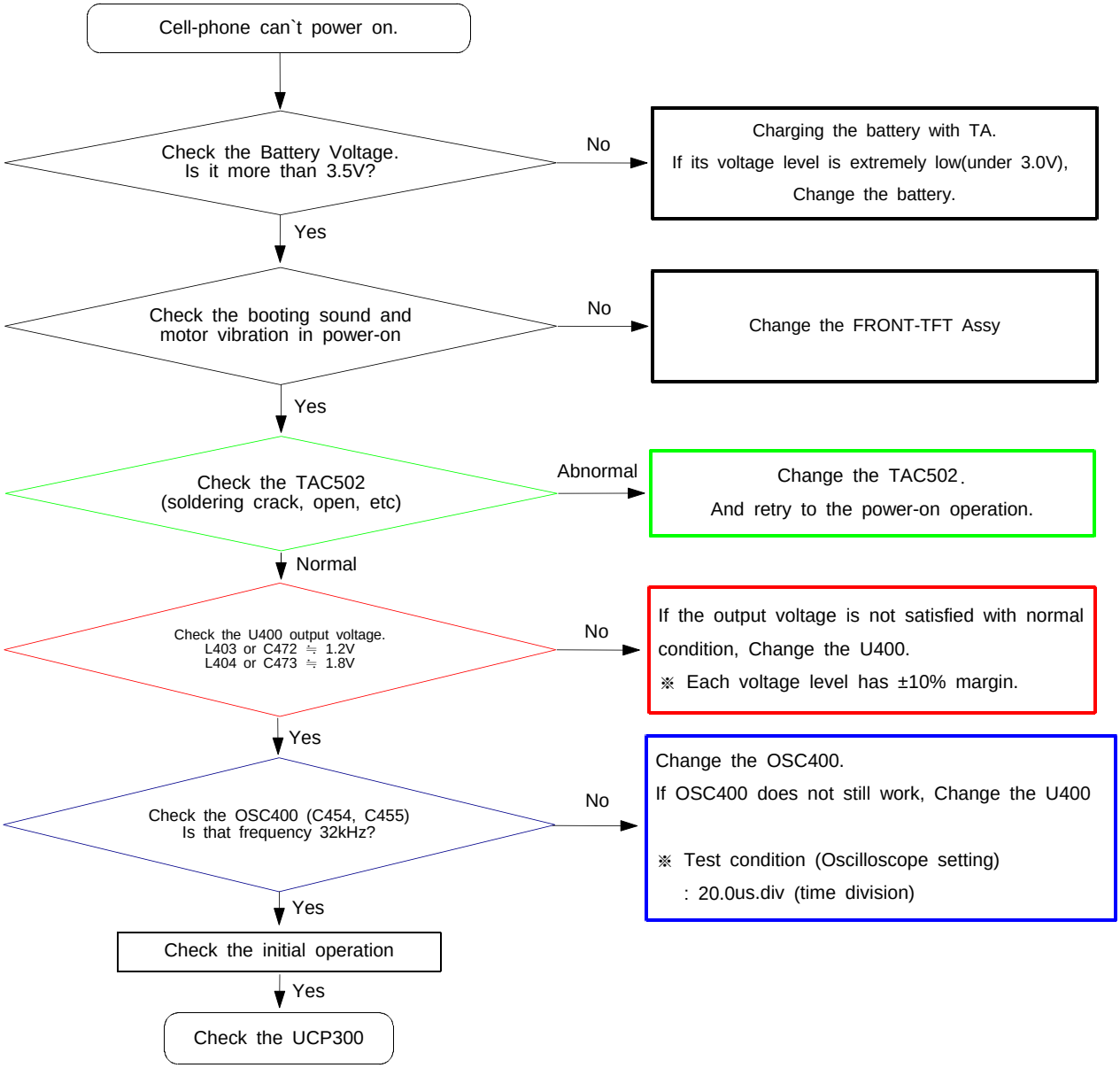
'+' driver, ESD Safe Tweezer

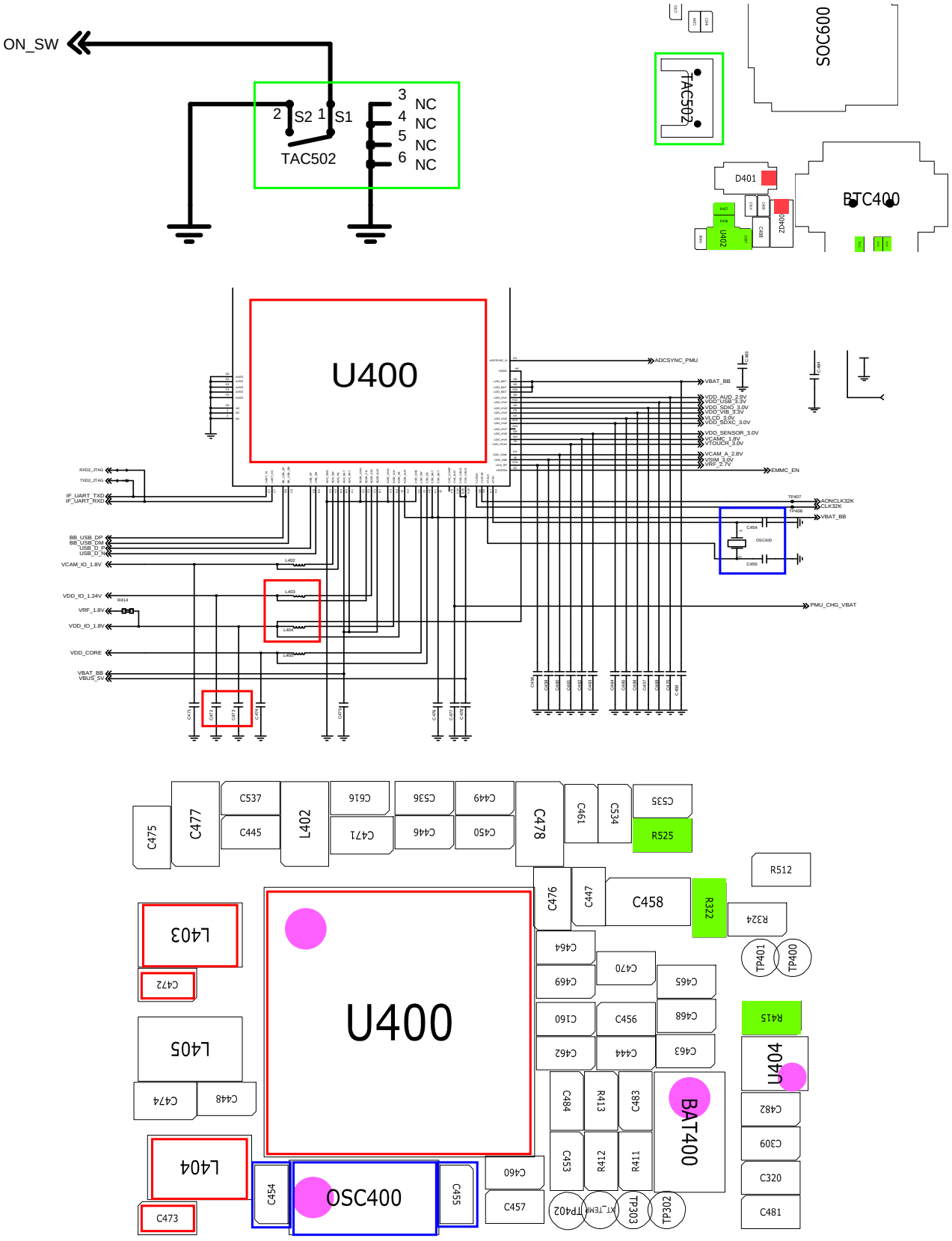


8960 & Spectrum Analyzer

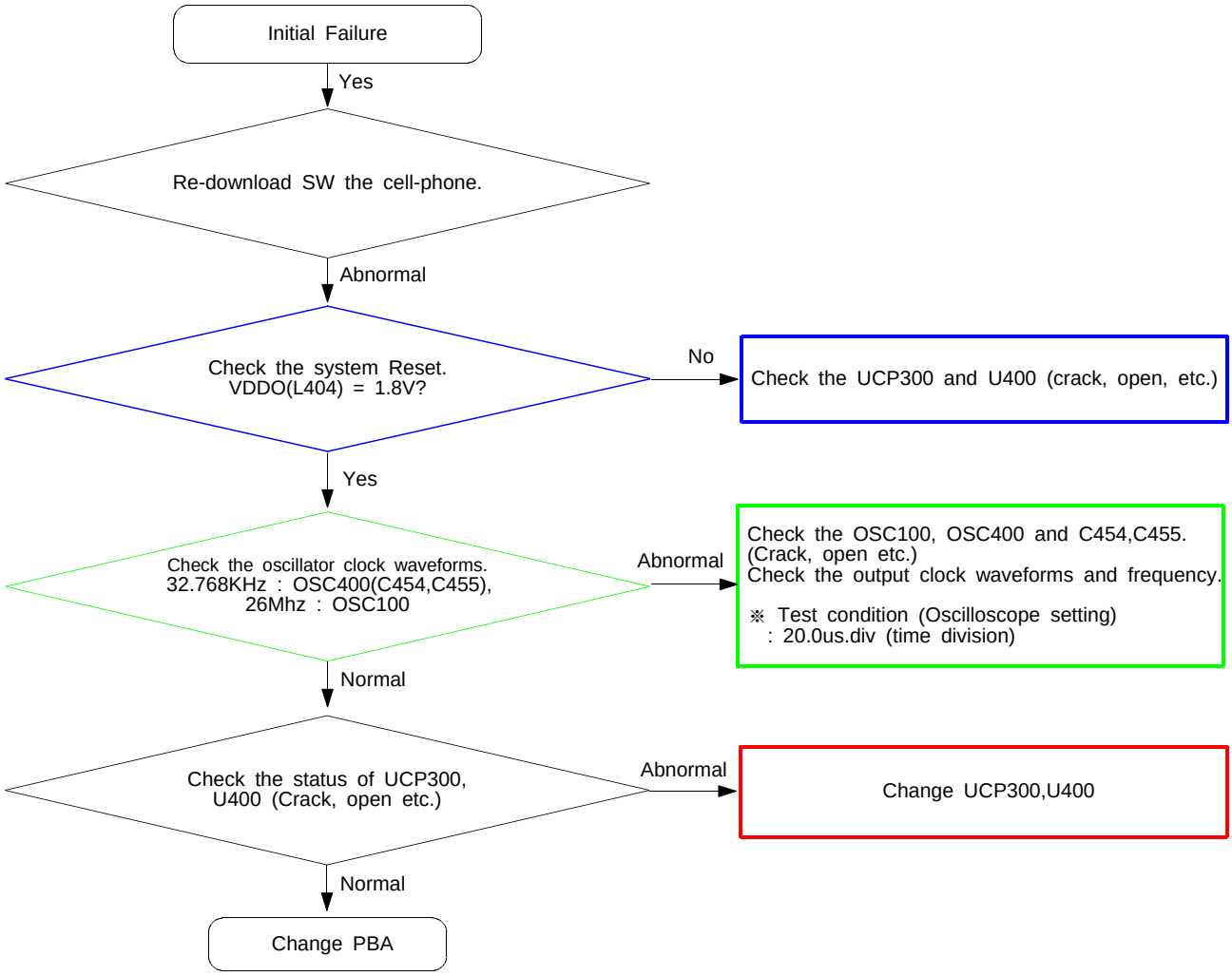
Soldering iron

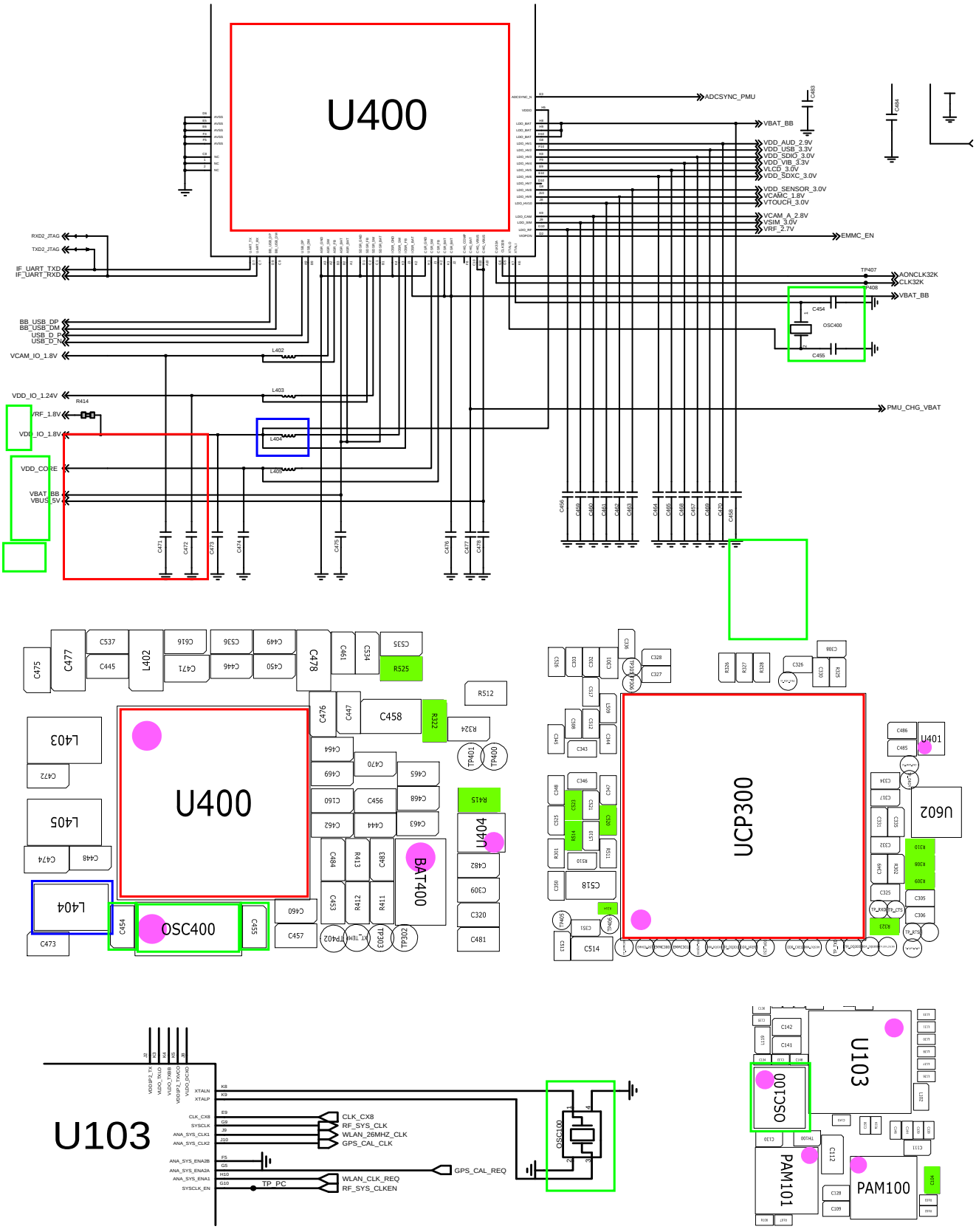
8-4-1. Power On



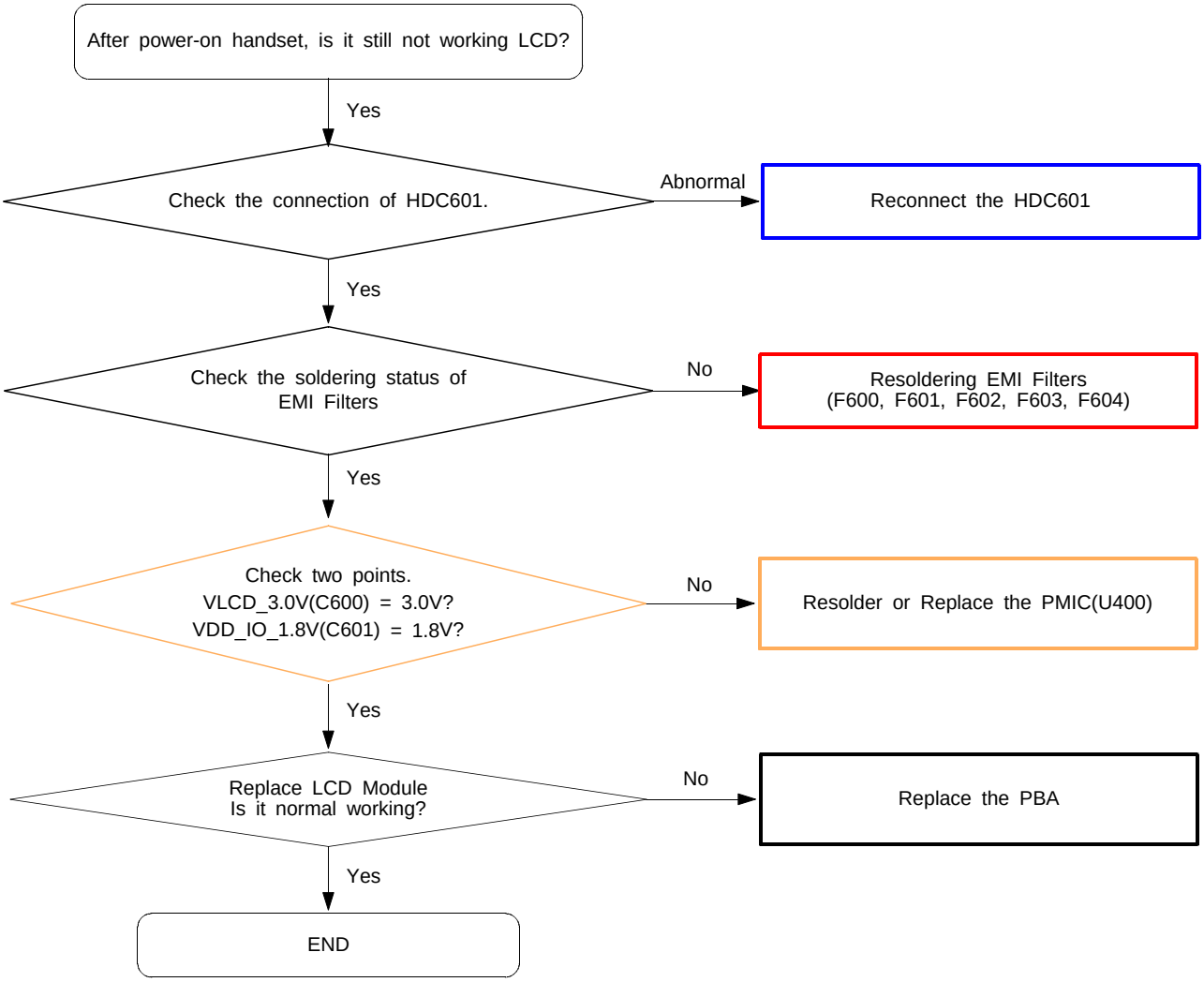


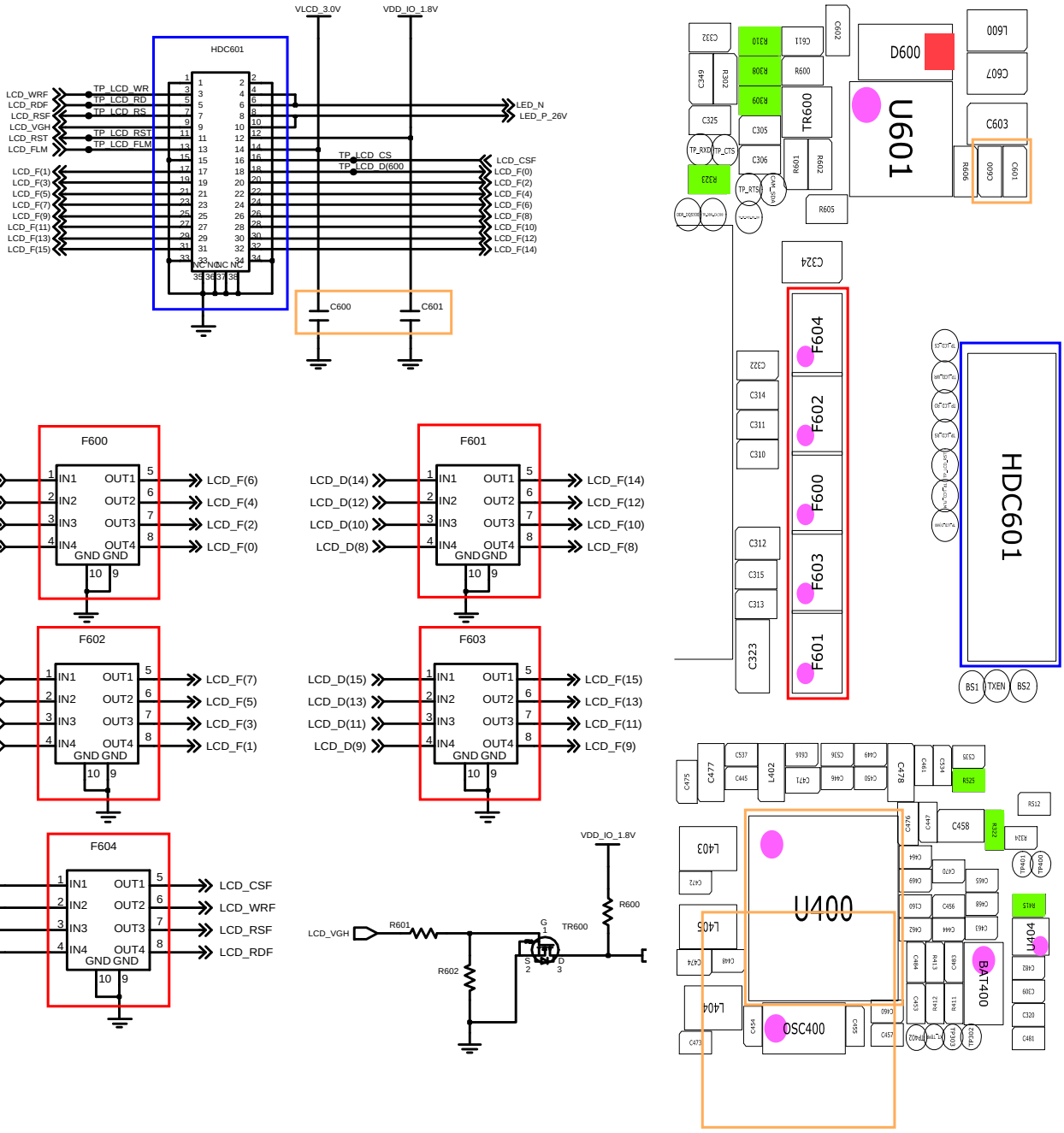
8-4-2. Initial



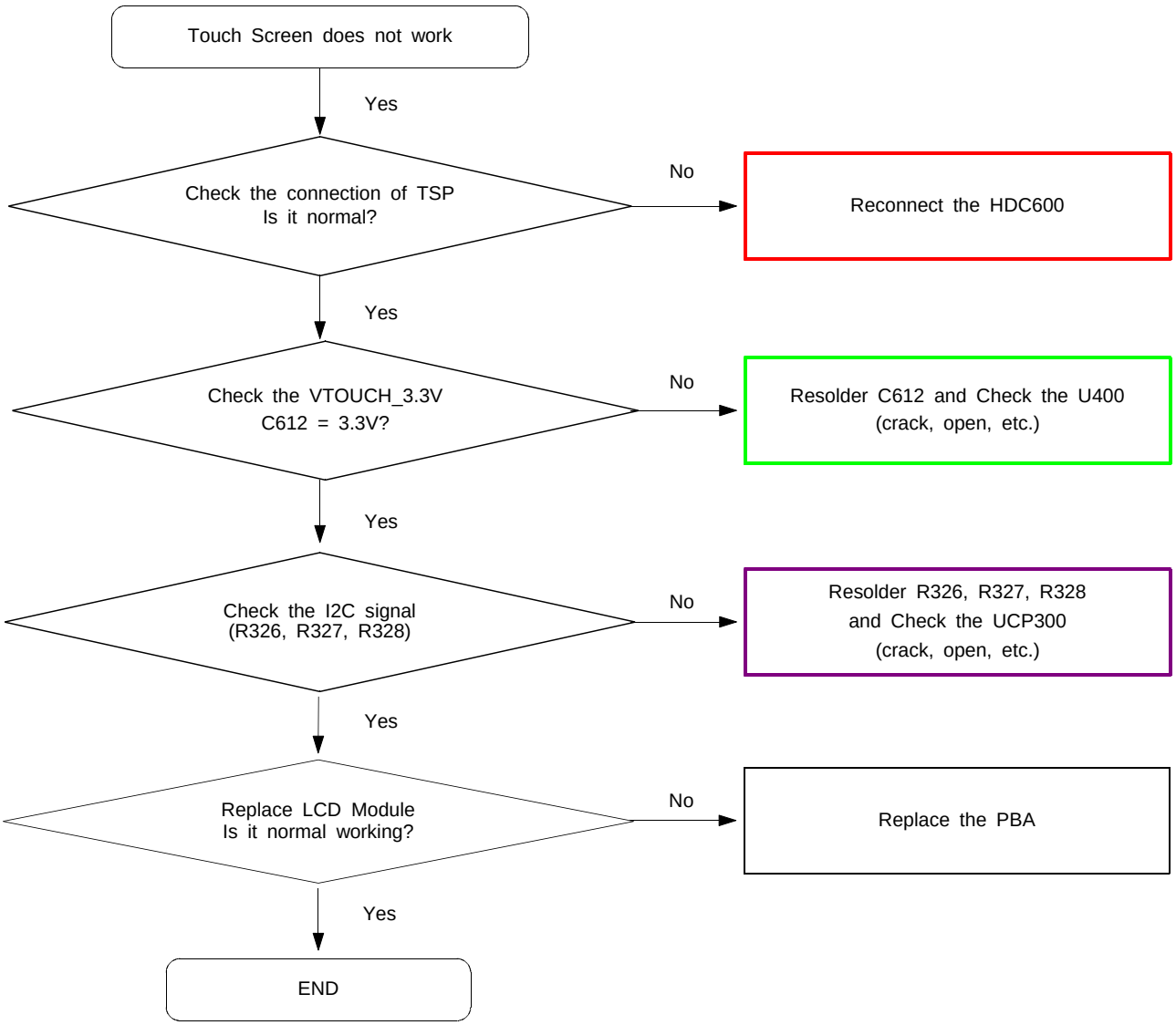


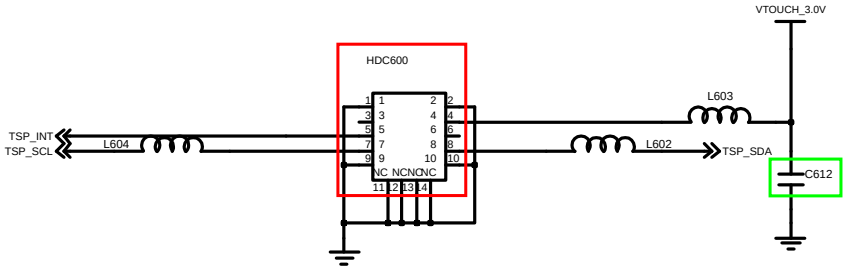
8-4-3. LCD

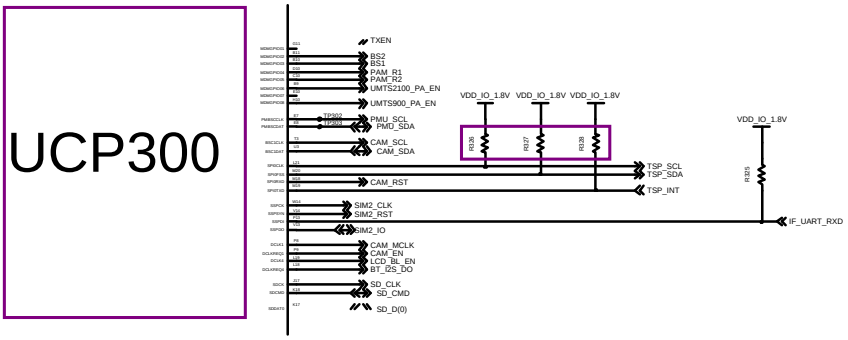




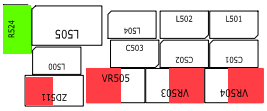
8-4-4. TSP

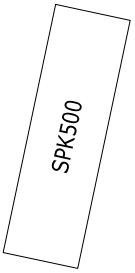


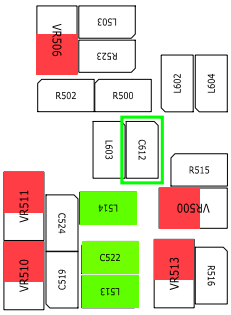


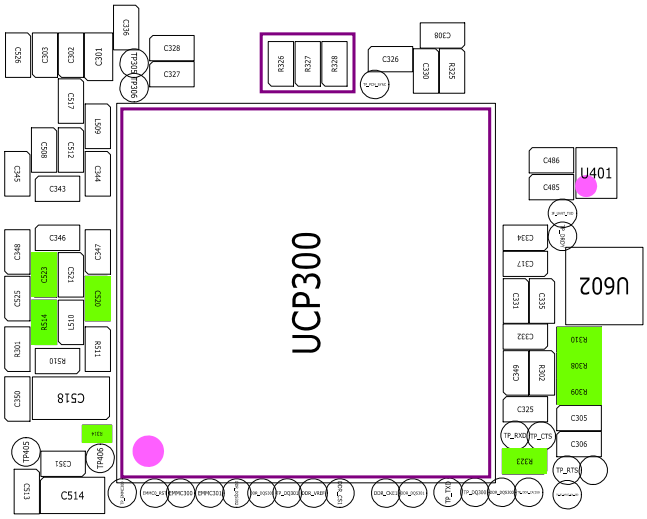


- HDC600



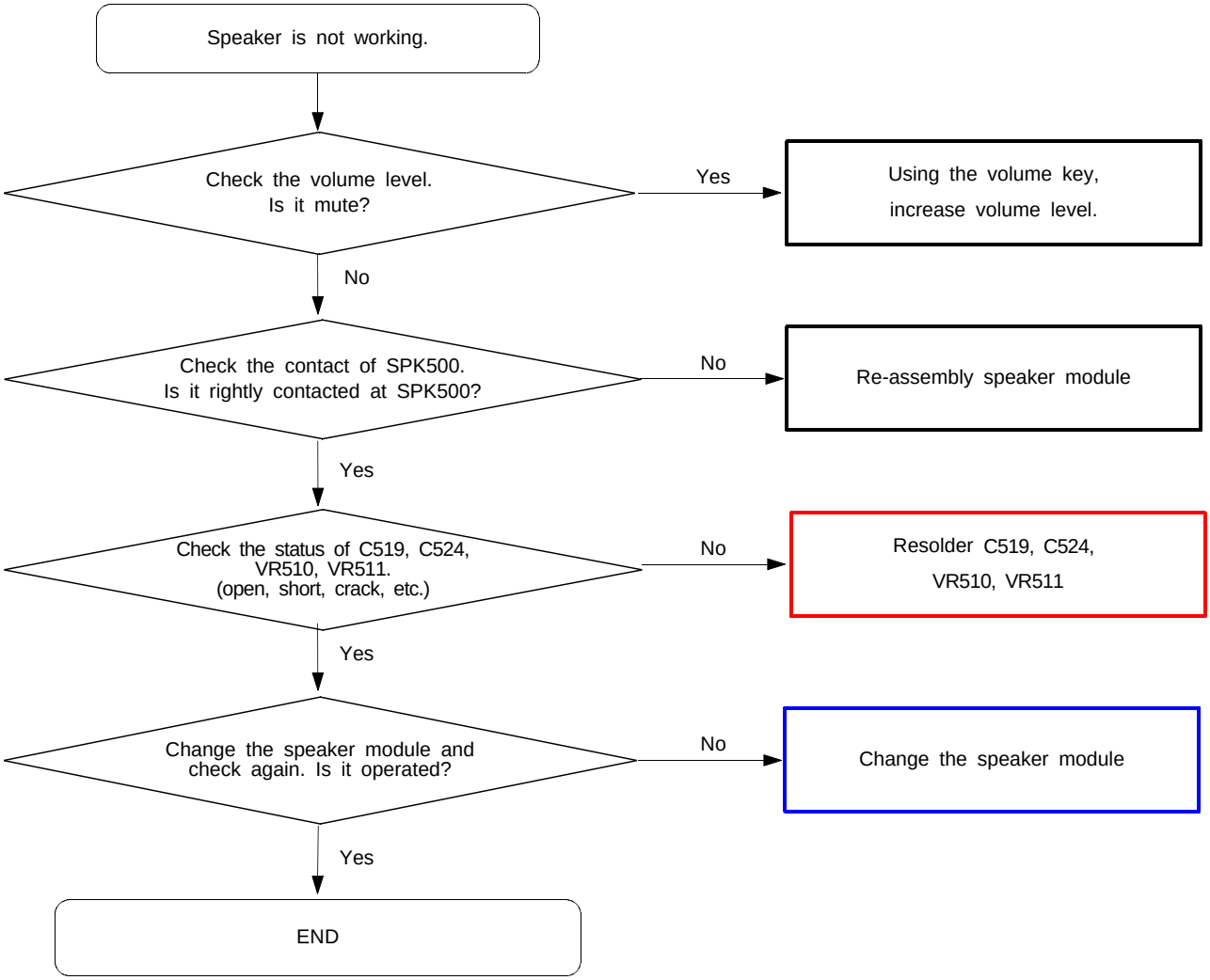


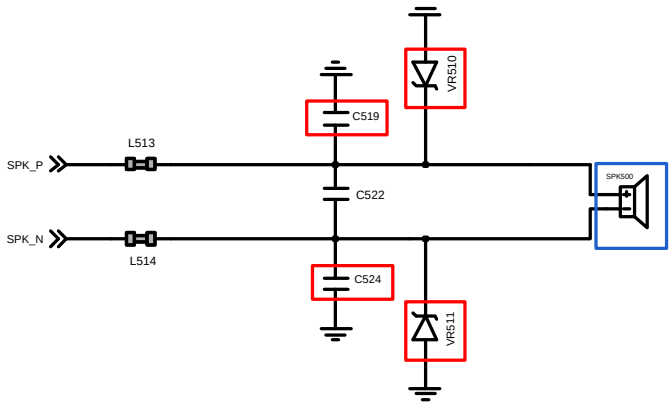


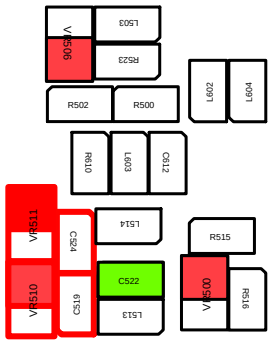


8-4-5. Audio Part

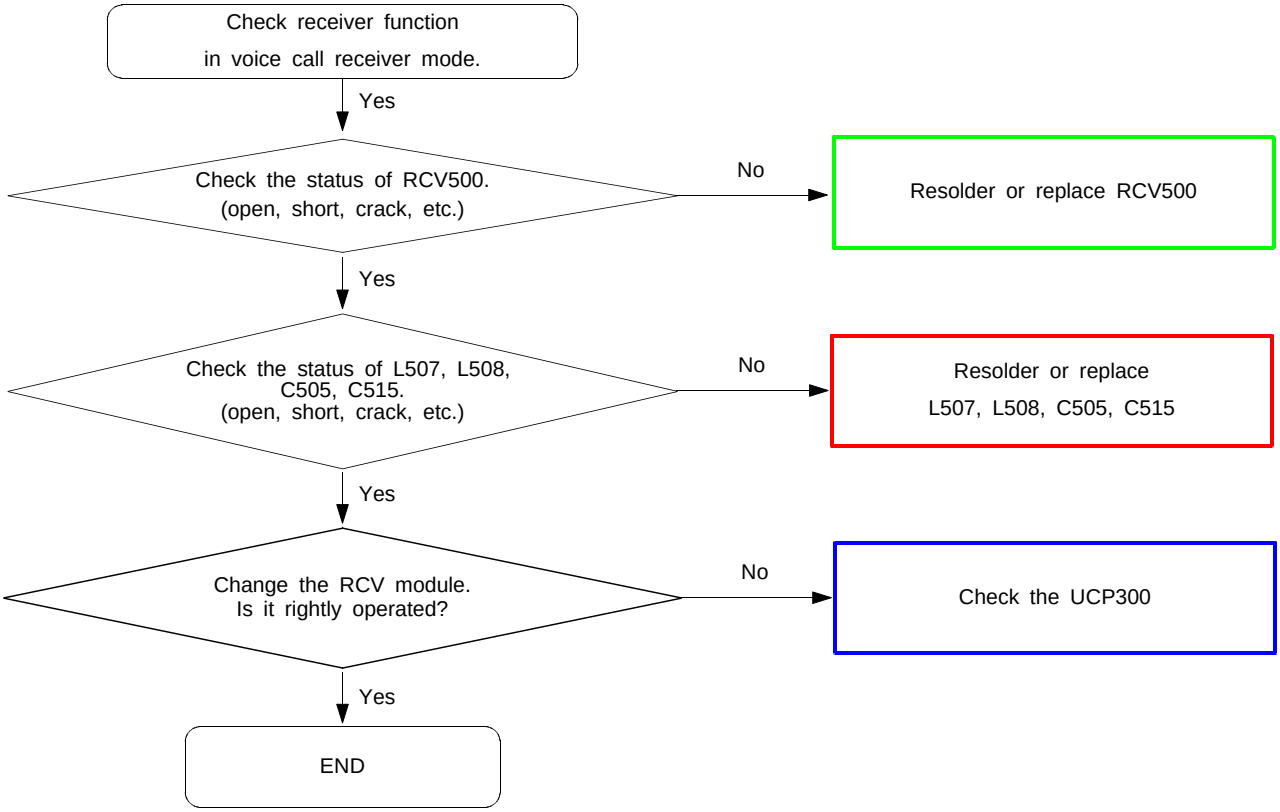
● Speaker Module

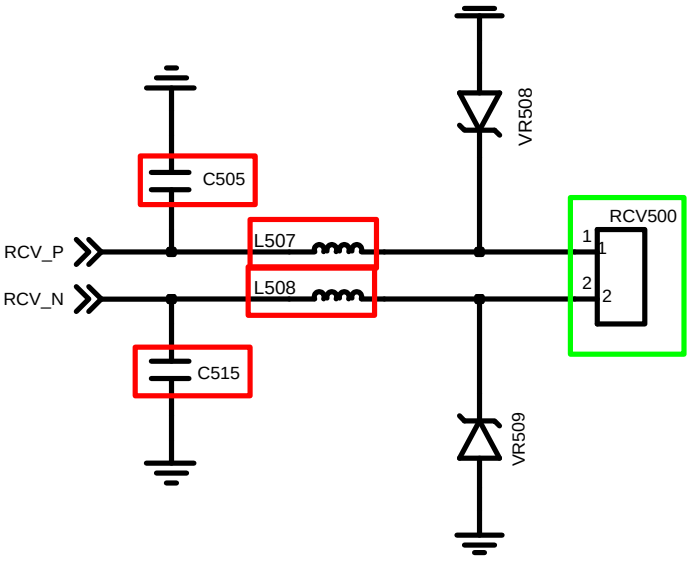


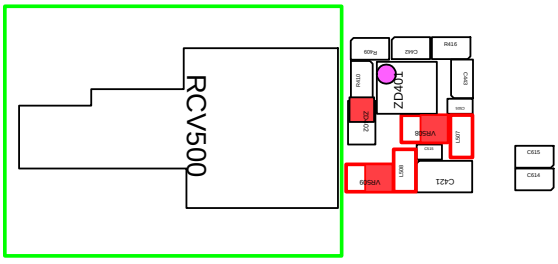




● Receiver Working

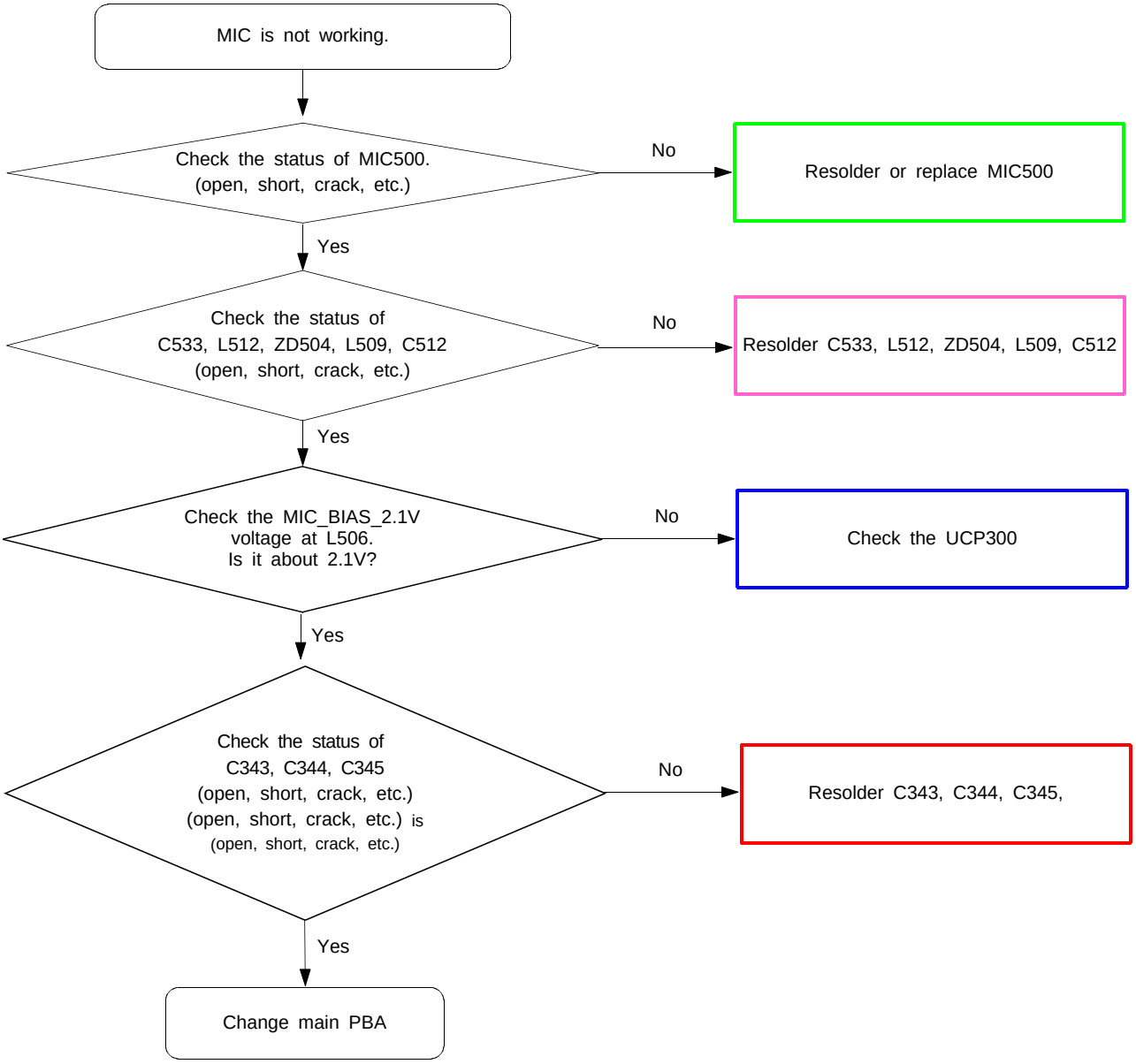


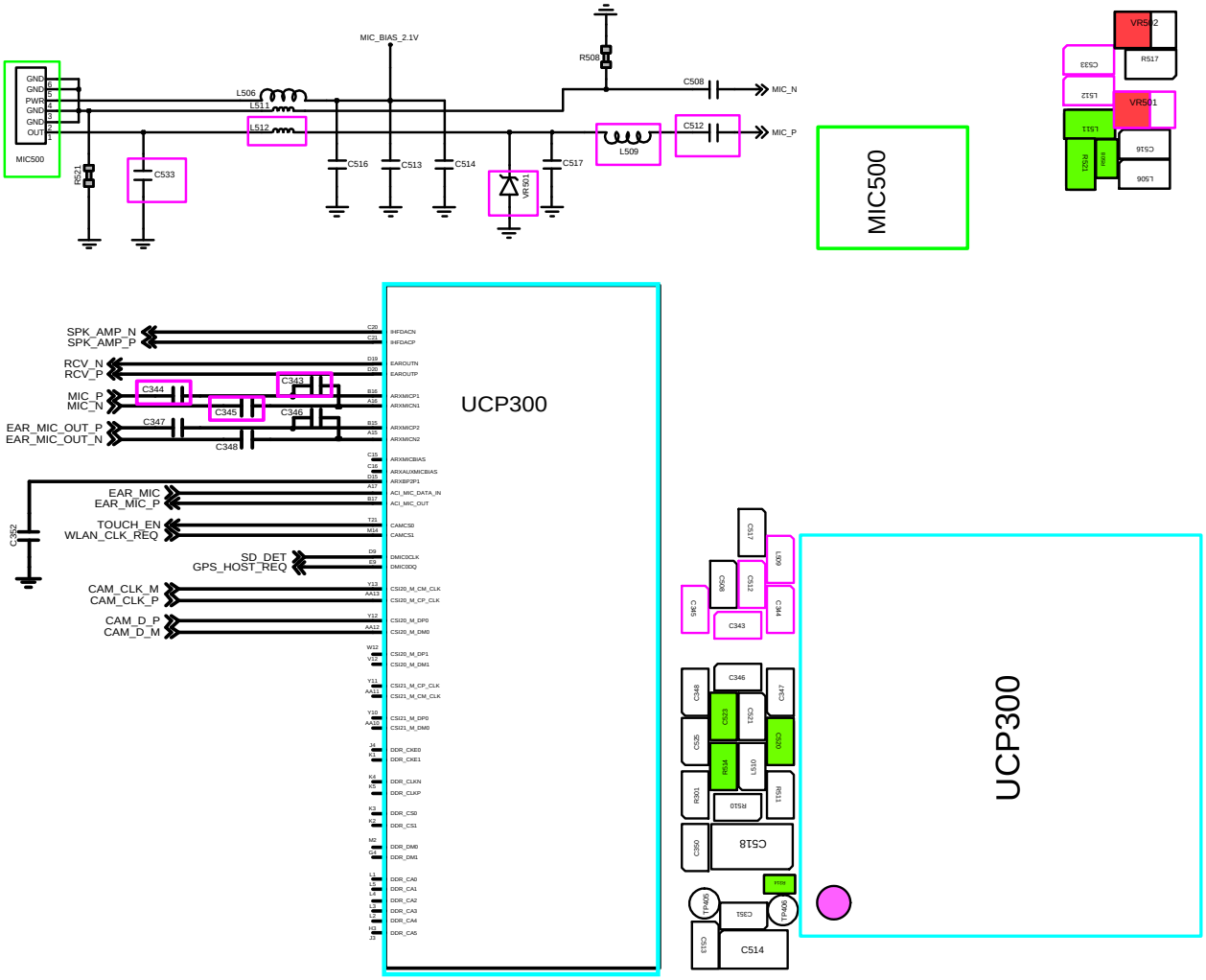




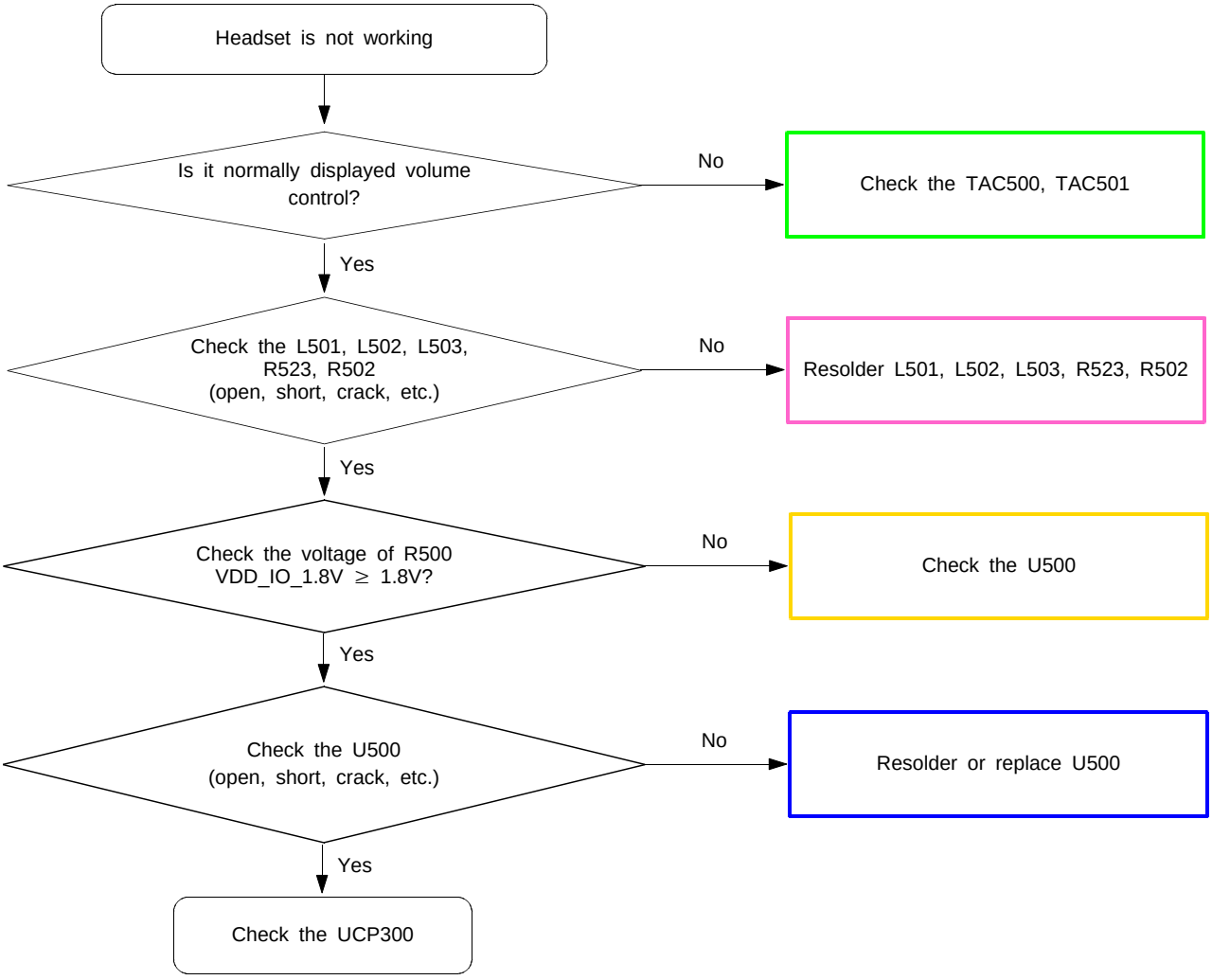
15

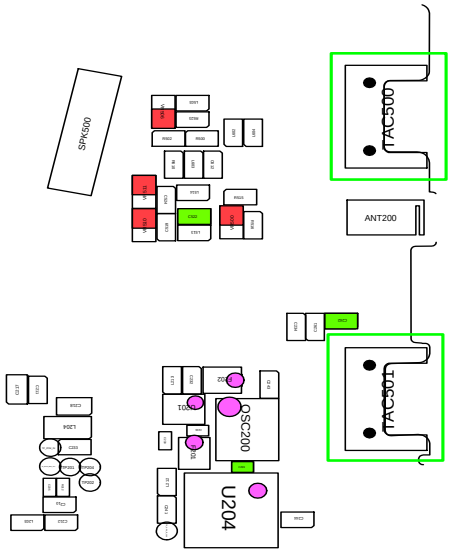
● MIC Working (Main MIC)

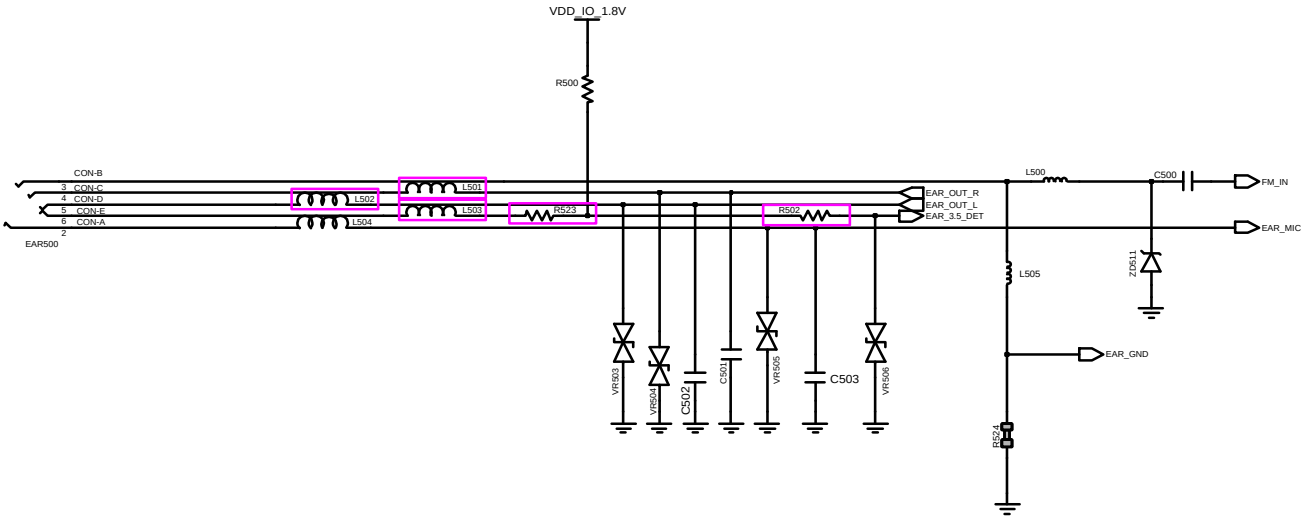


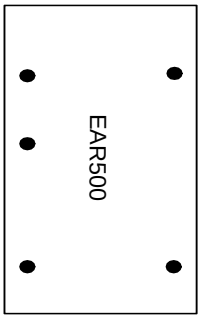


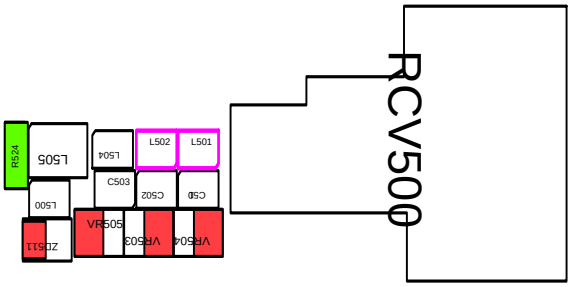
● Stereo Headset

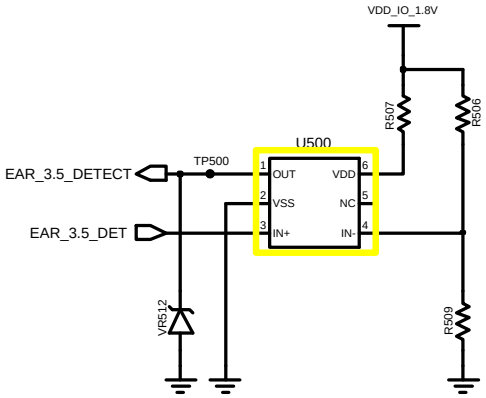


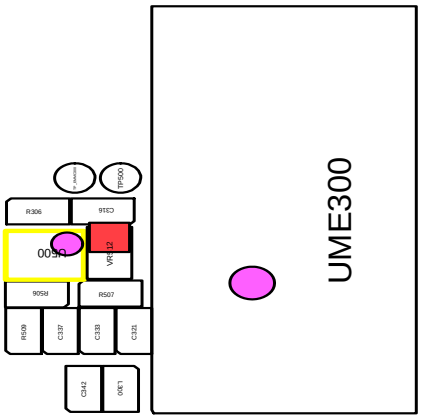




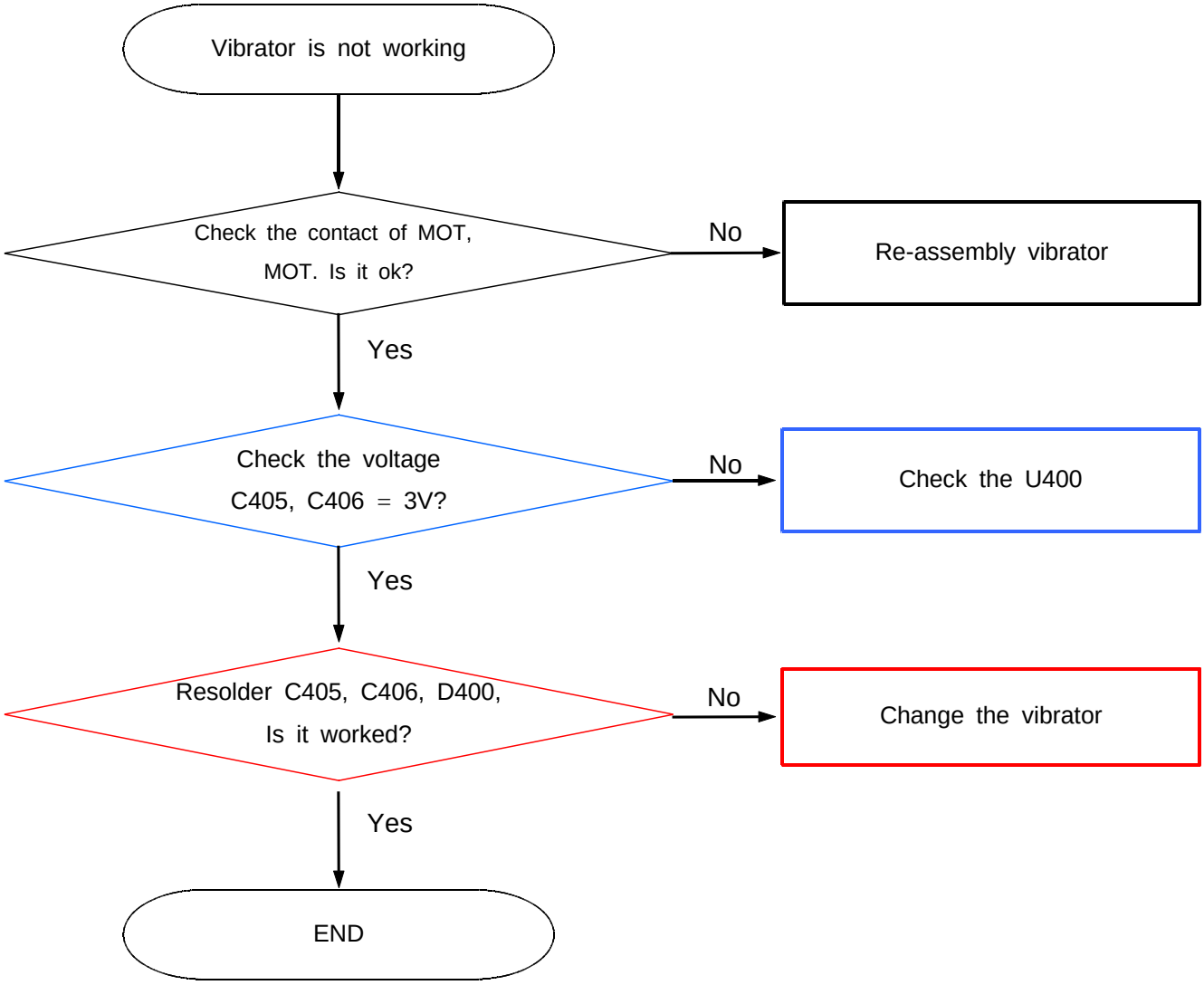


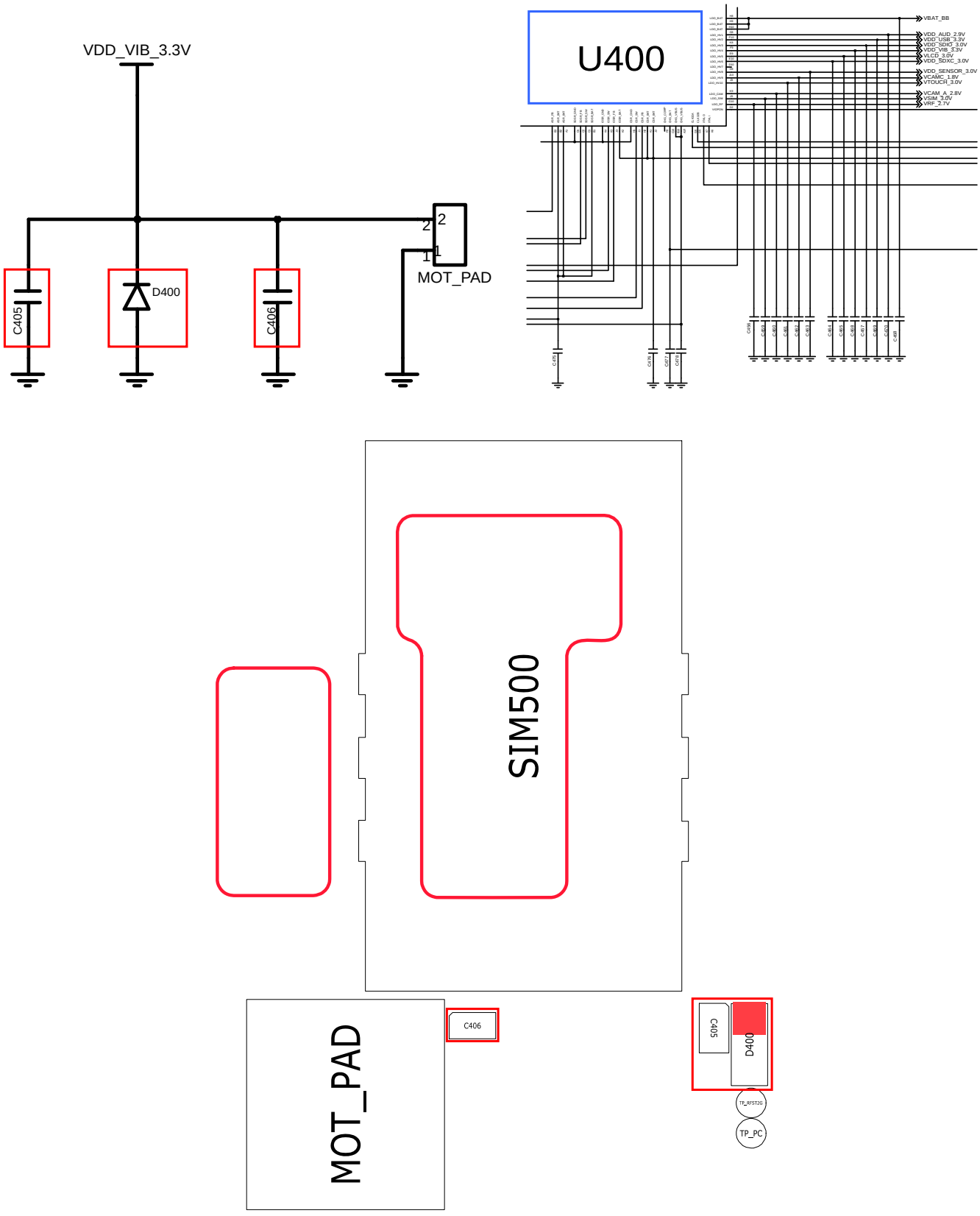




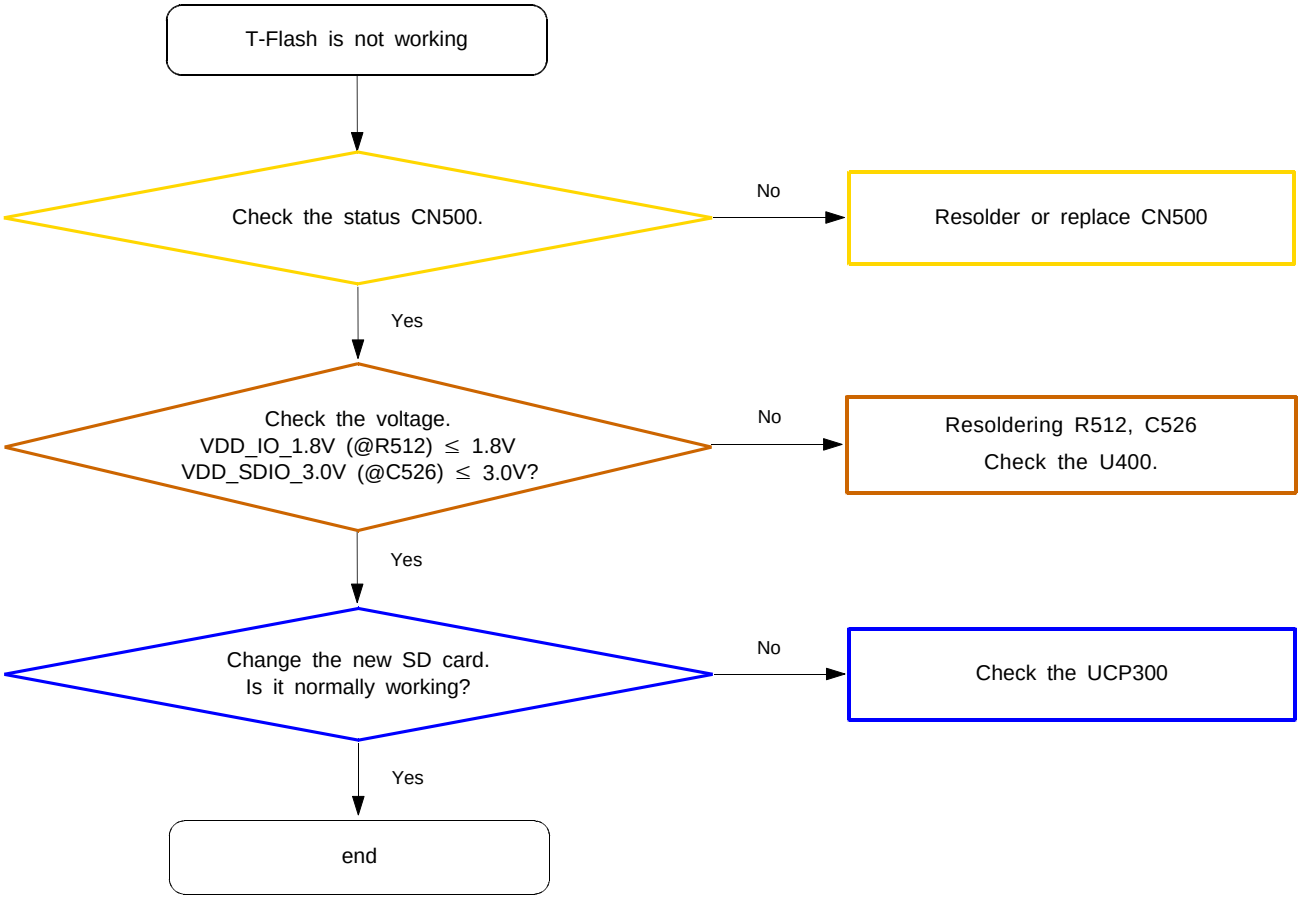


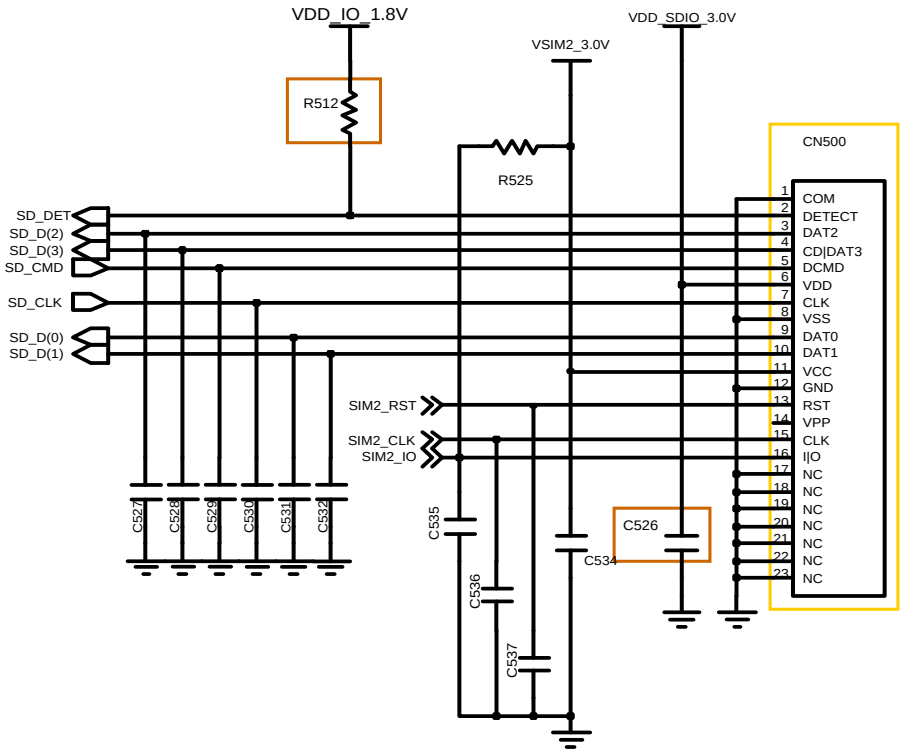
8-4-6. Vibrator Working

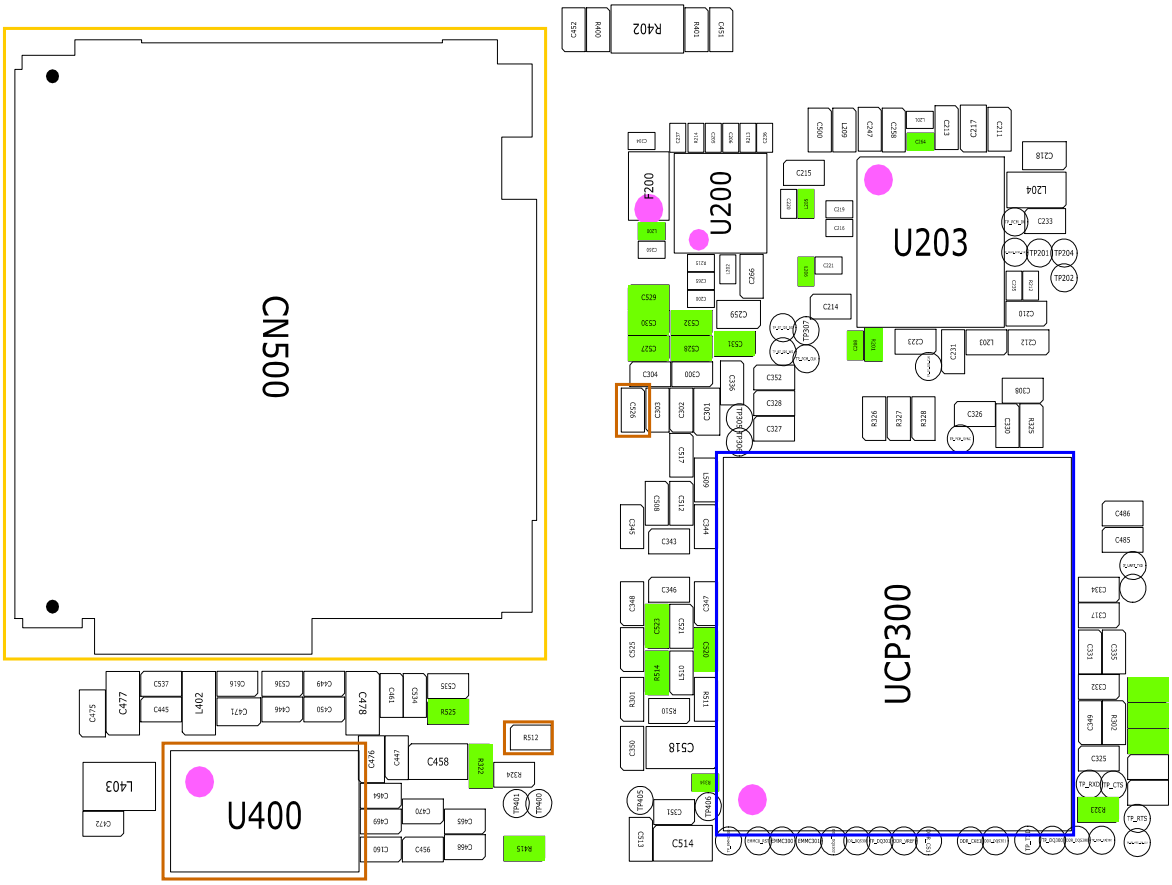




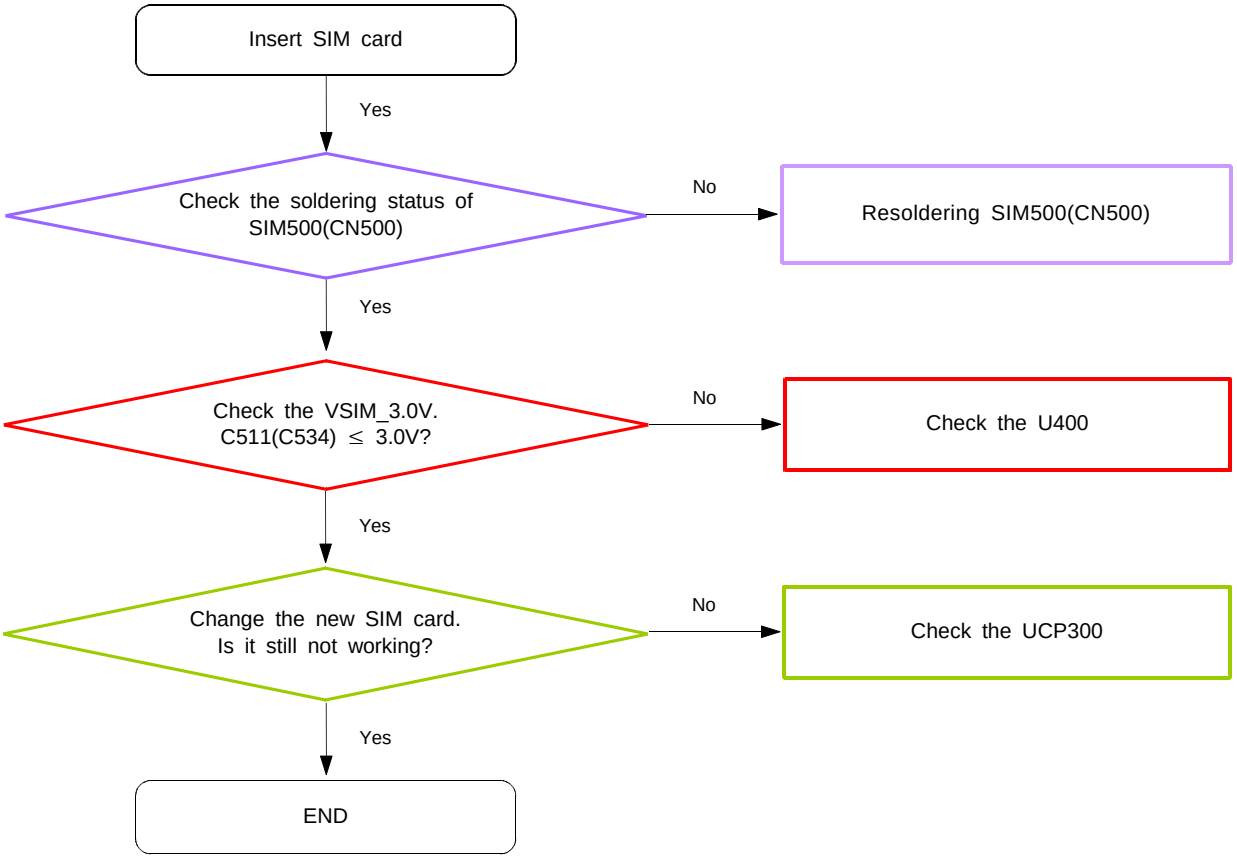
8-4-7. T-Flash Card Working

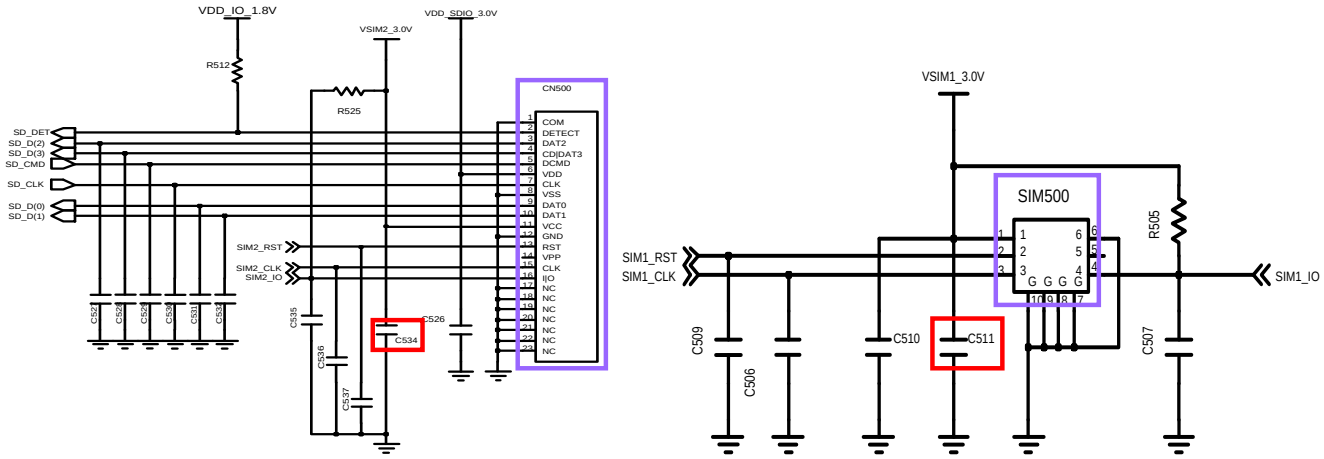


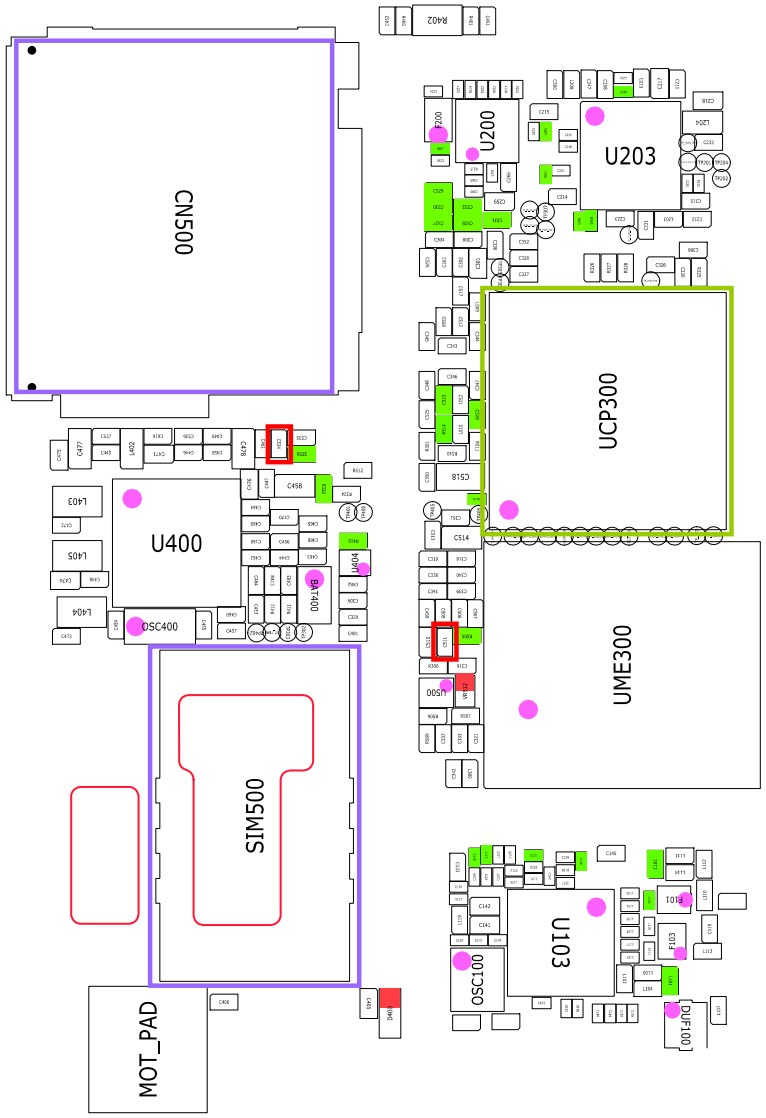




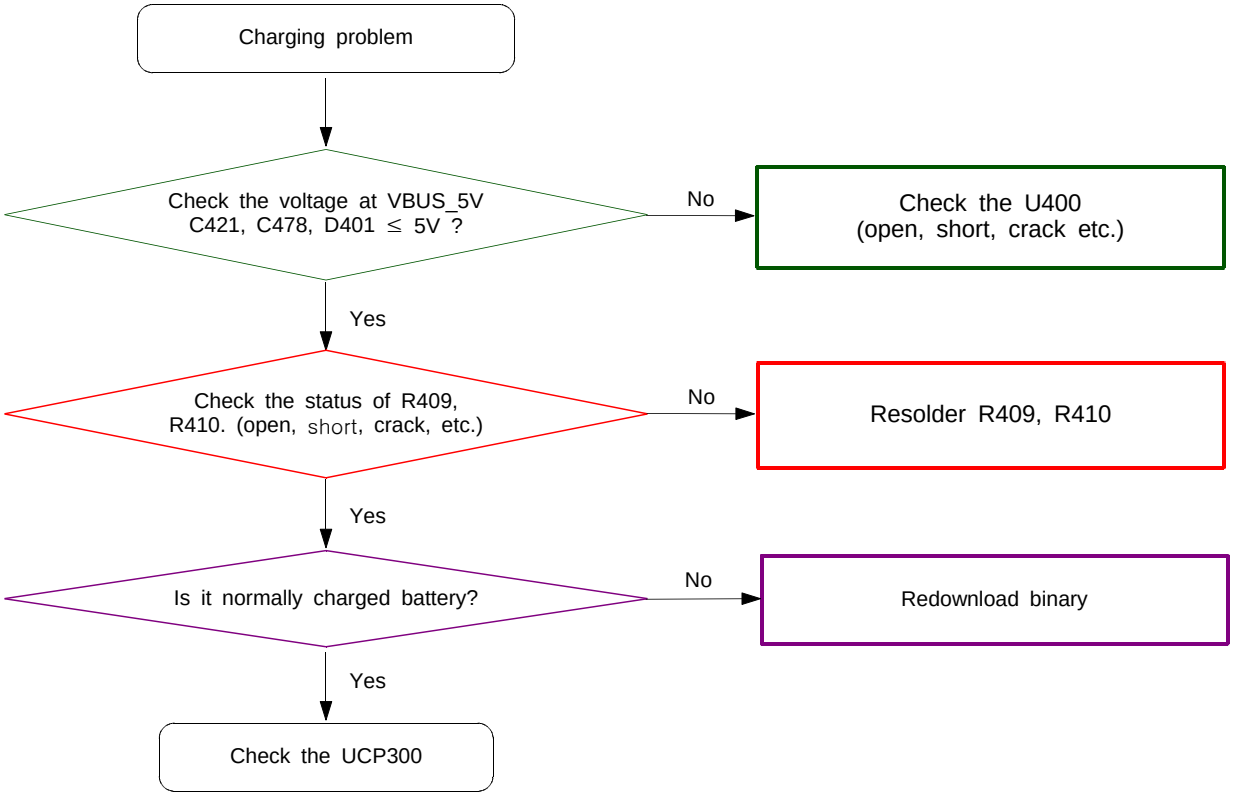
8-4-8. Sim Card

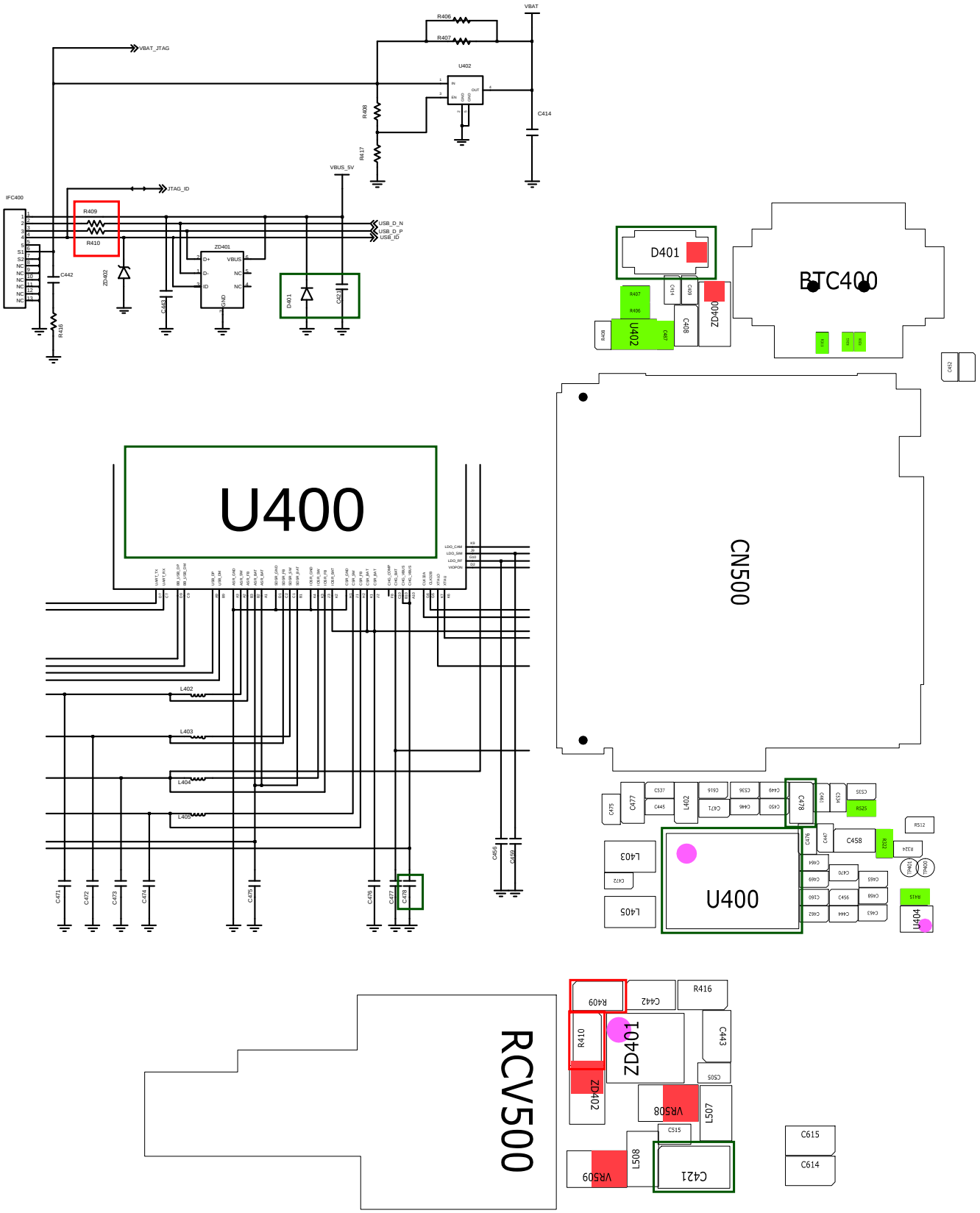




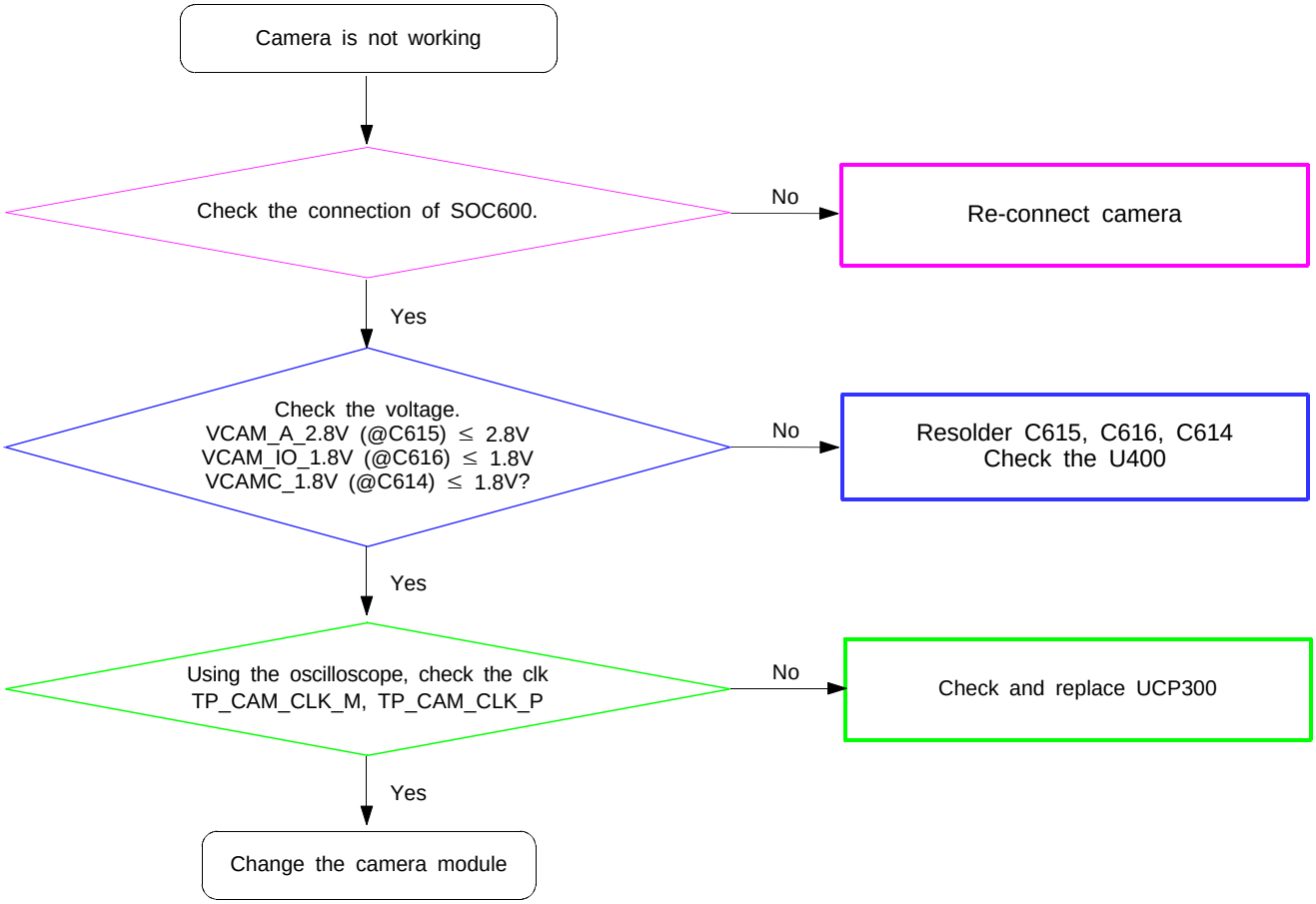


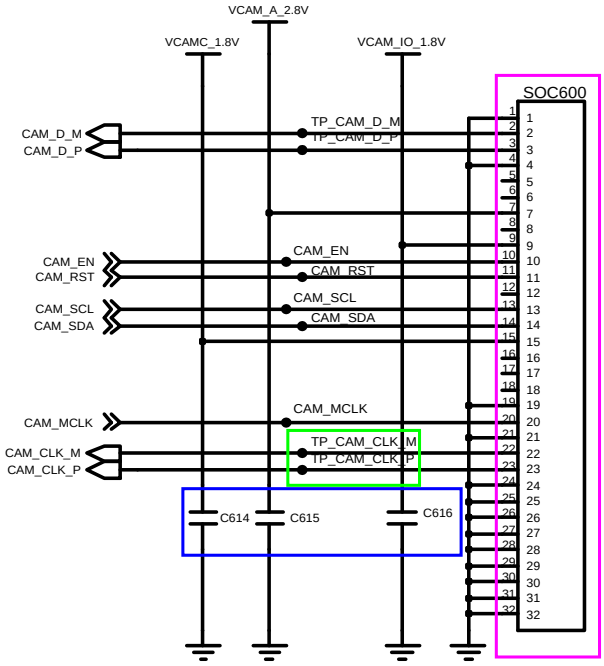
8-4-9. Charging

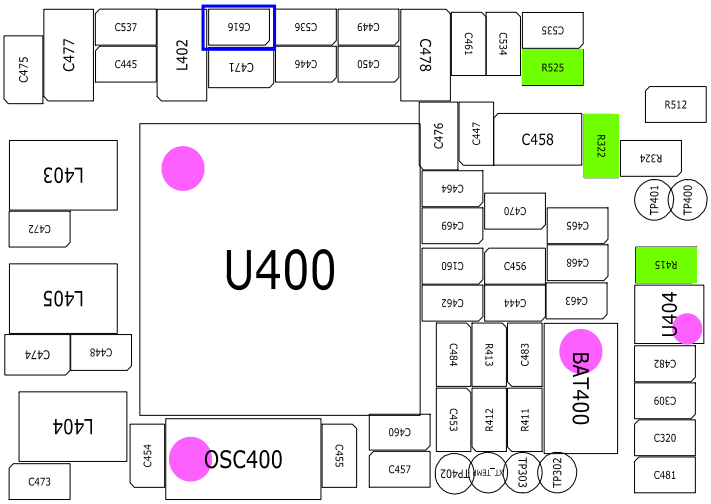


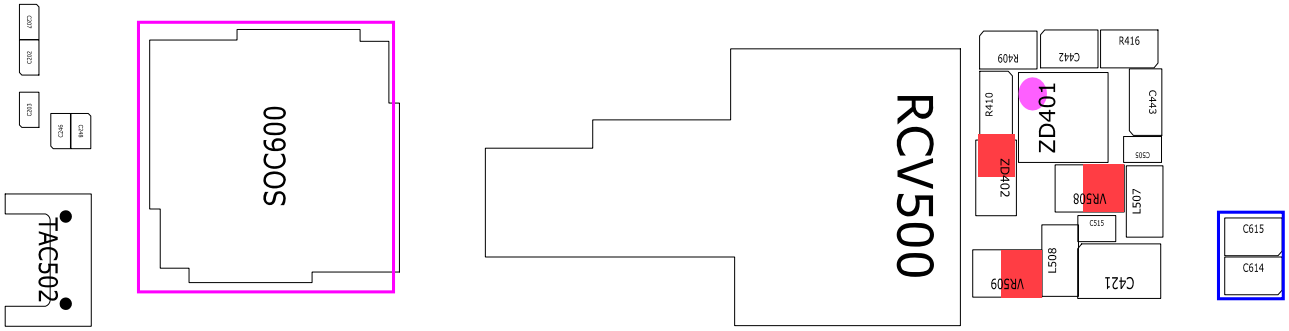


8-4-10 CAMERA

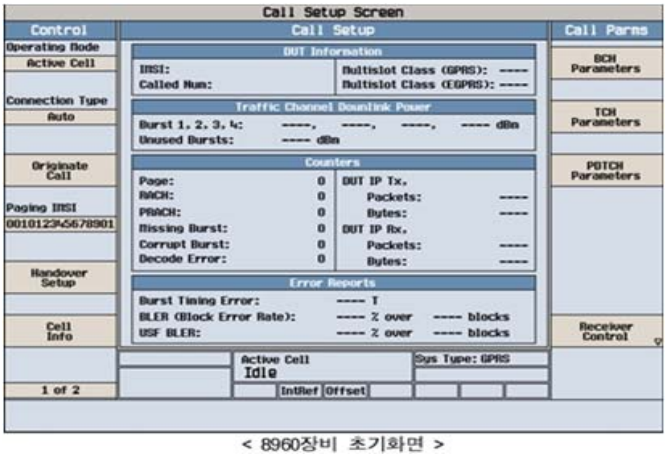








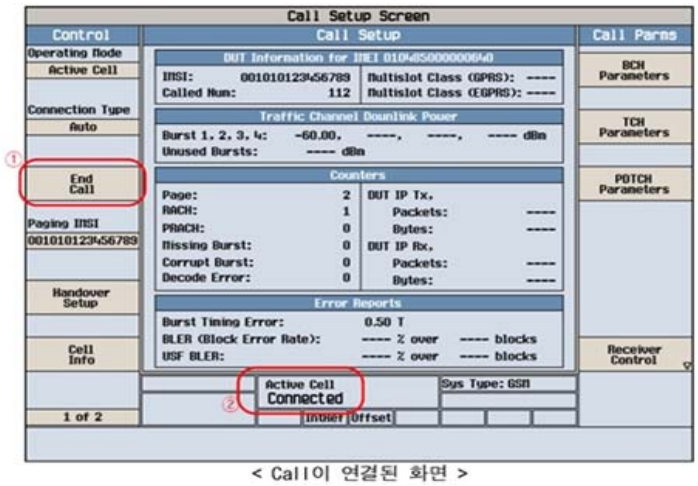
※ presetting 8960



< 8960장비 초기화면 >

(Rx setting)

1. Active Cell : select GSM or GPRS
2. Connetion Type : select Auto(GSM), BLER(GPRS)
3. BCH Parameter : select measuring band (DCS or EGSM)
4. Cell power : -60dBm



< Call이 연결된 화면 >

(Tx setting)

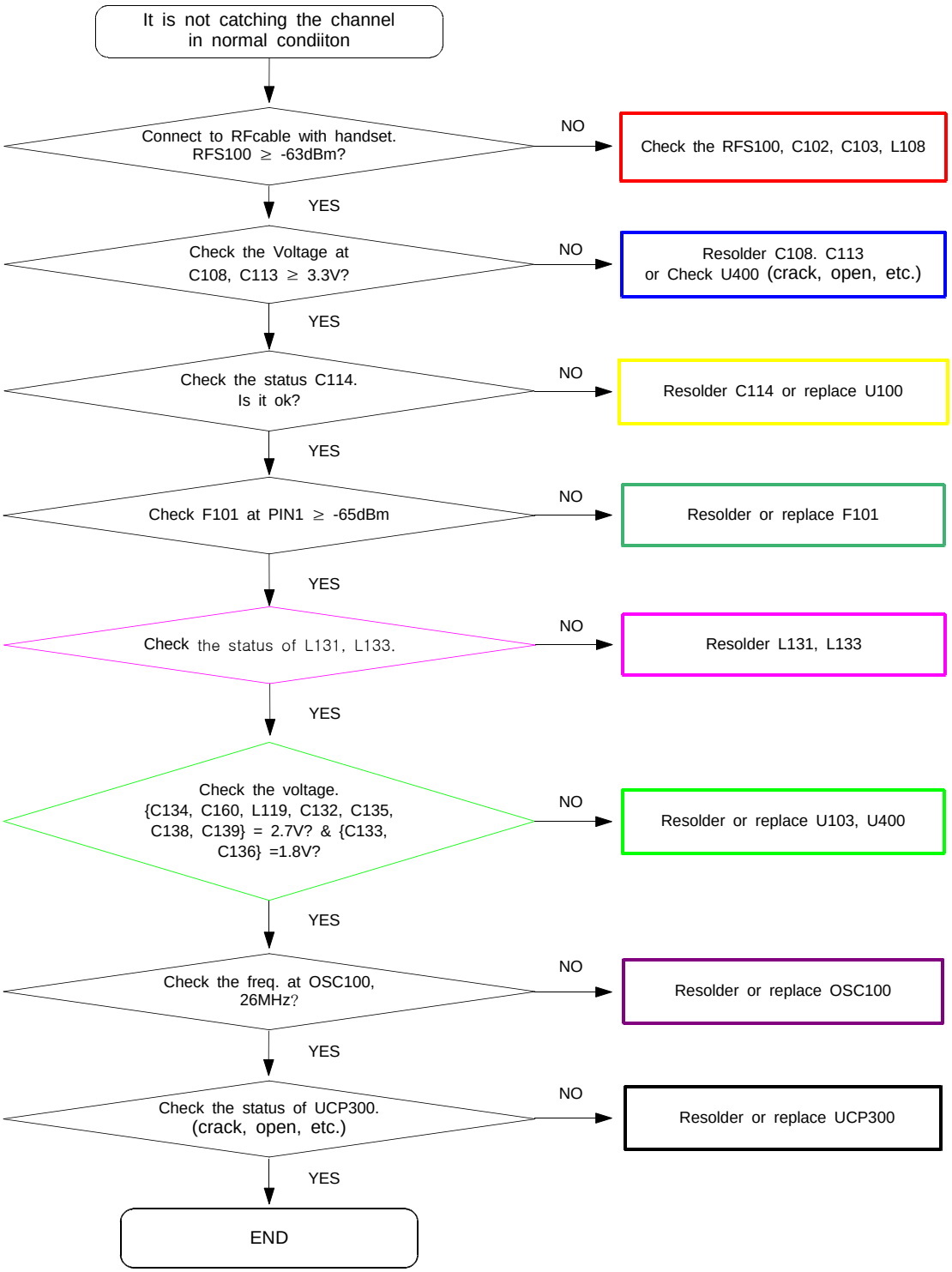
※ After setting 8960 (EGSM / DCS)

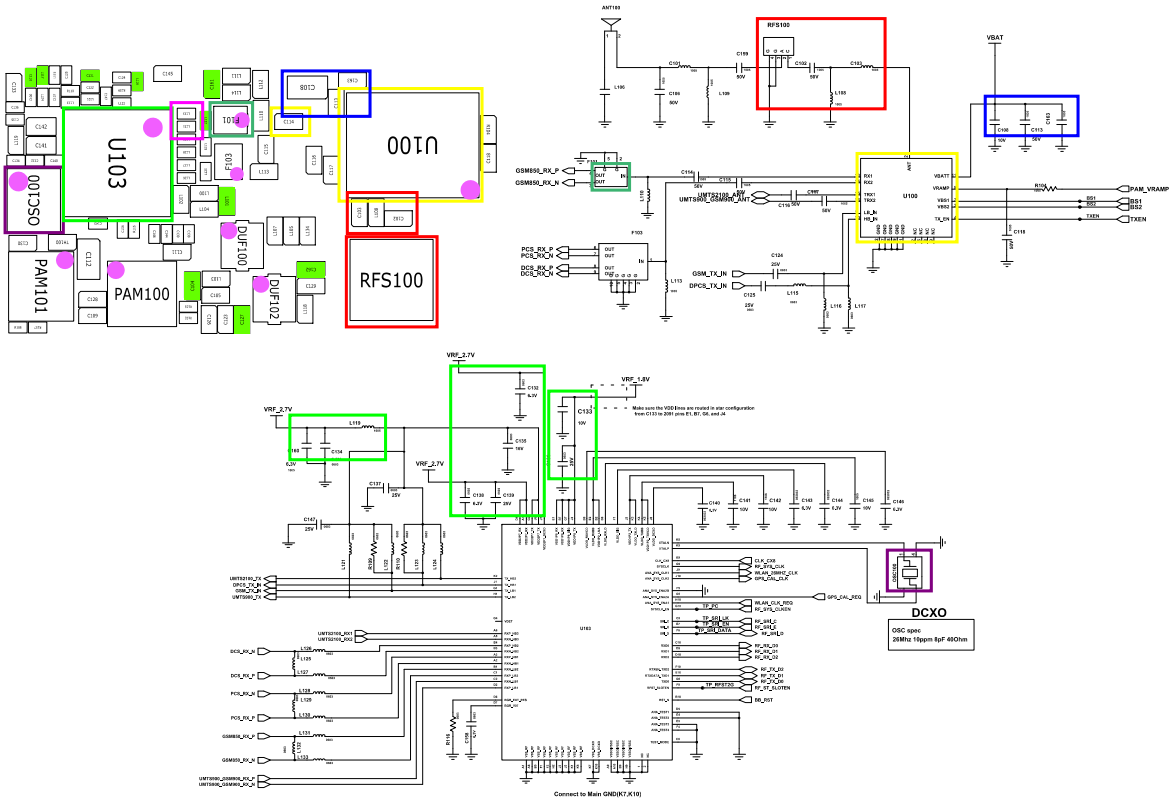
1. After setting, prepare the call setup Display
2. Using an Originate Call, make a call.
3. Confirm the display "connected"
4. start the measuring

※ 8960 & spectrum analyzer (down & up at picture)

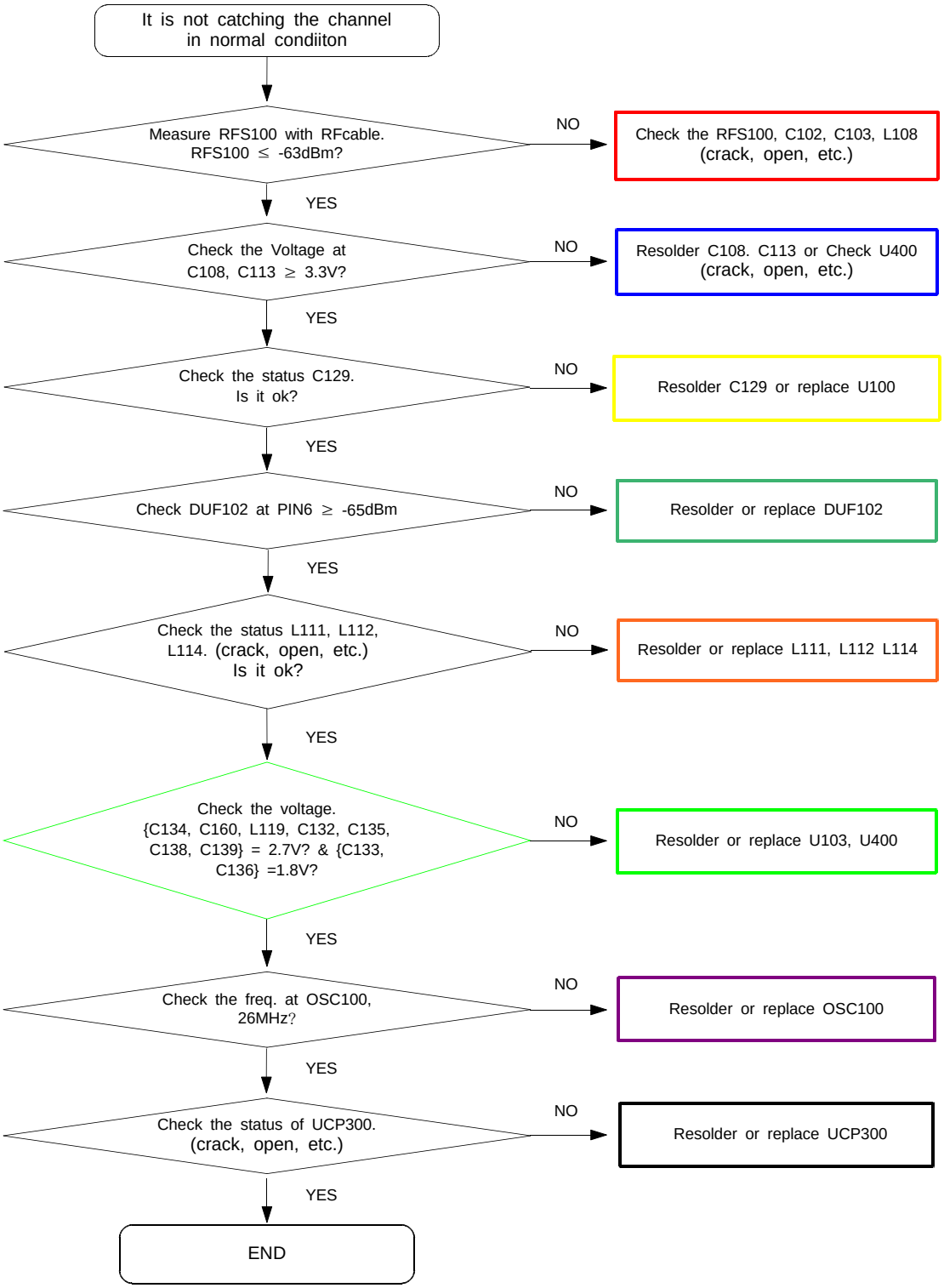
- spectrum analyzer : testing method = the way using an Osciliscope
- 8960 : connect using RF Cable between 8960 & RF Connector in board.

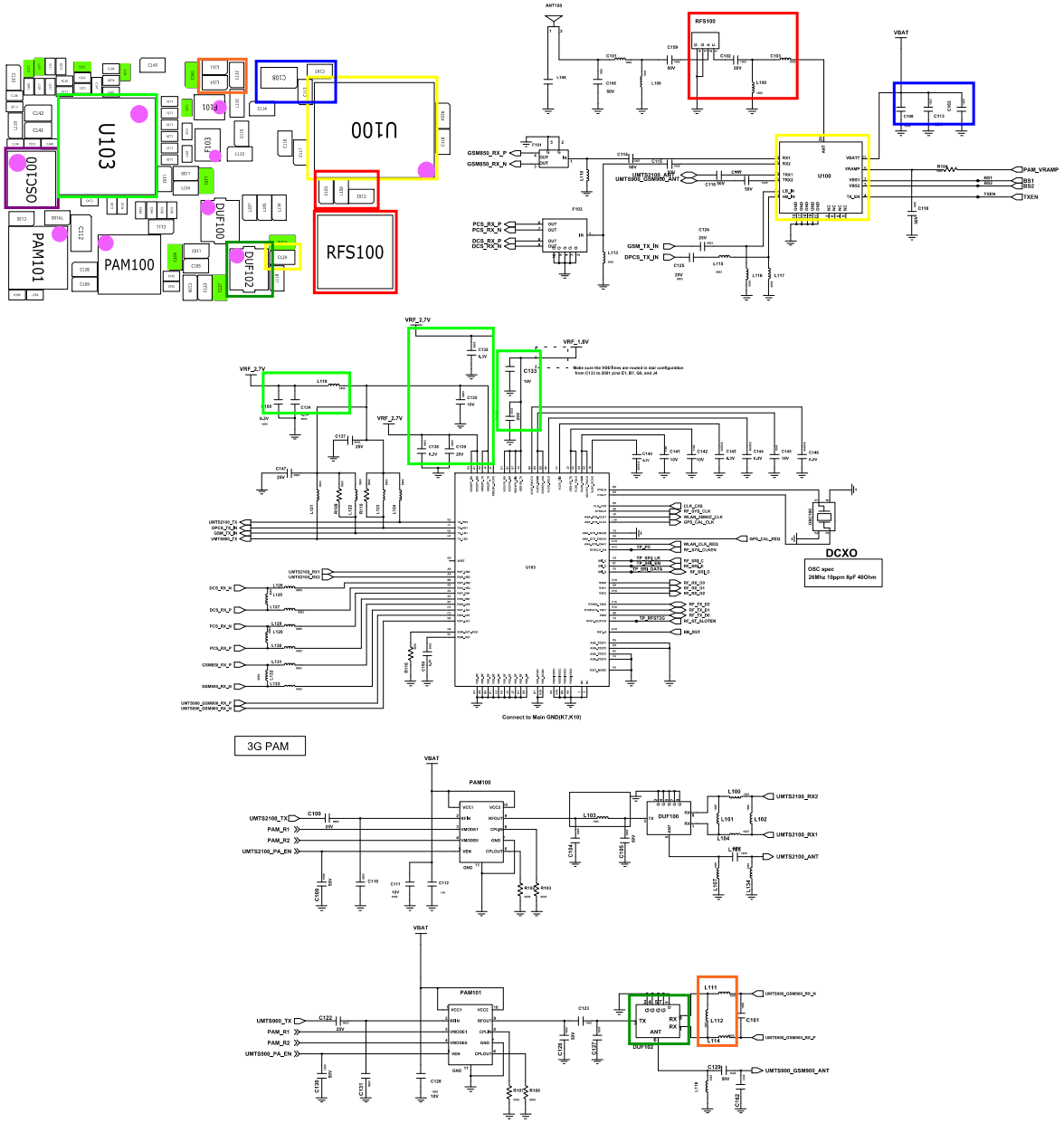
8-5-1. GSM 850 Rx



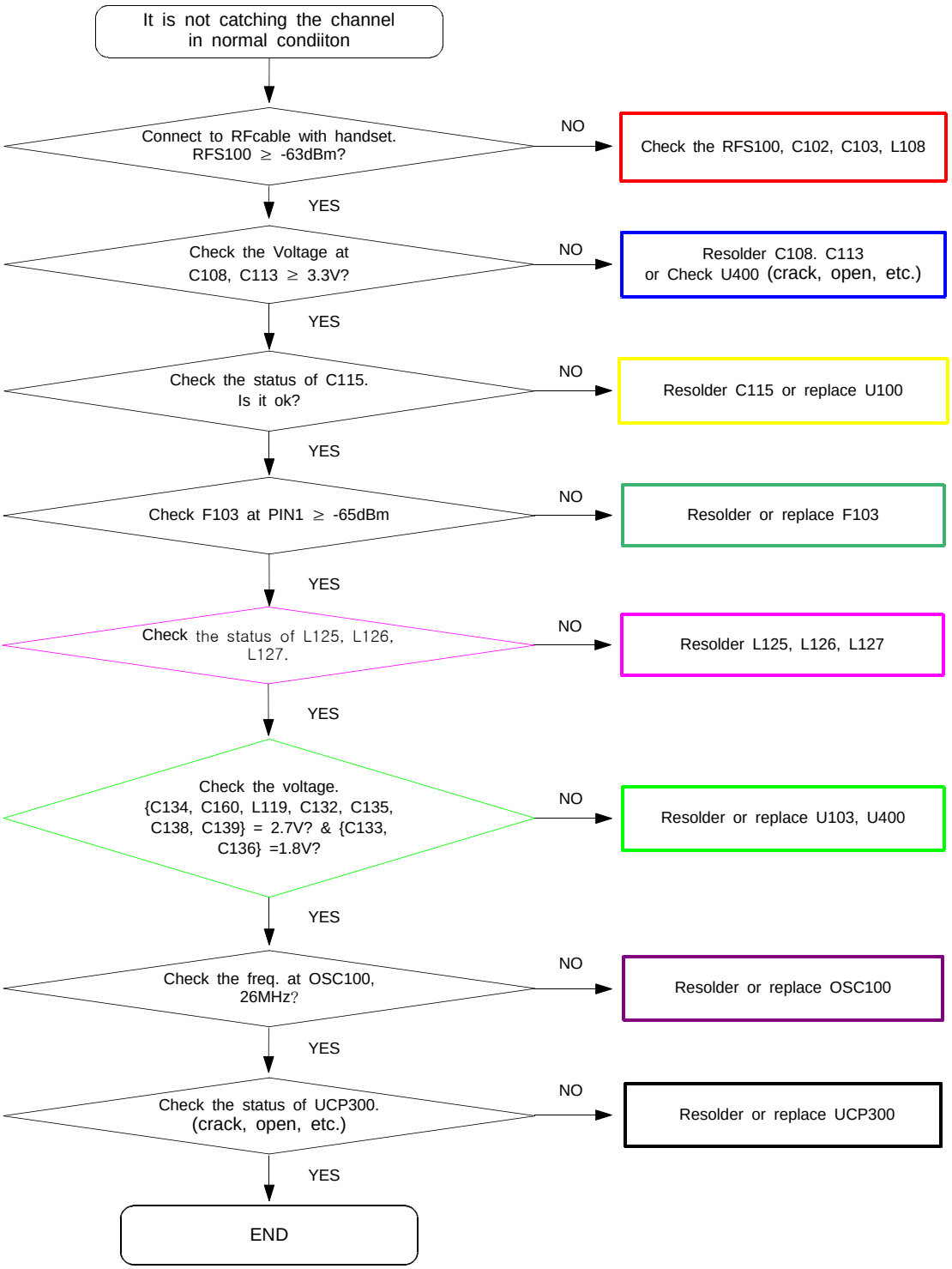


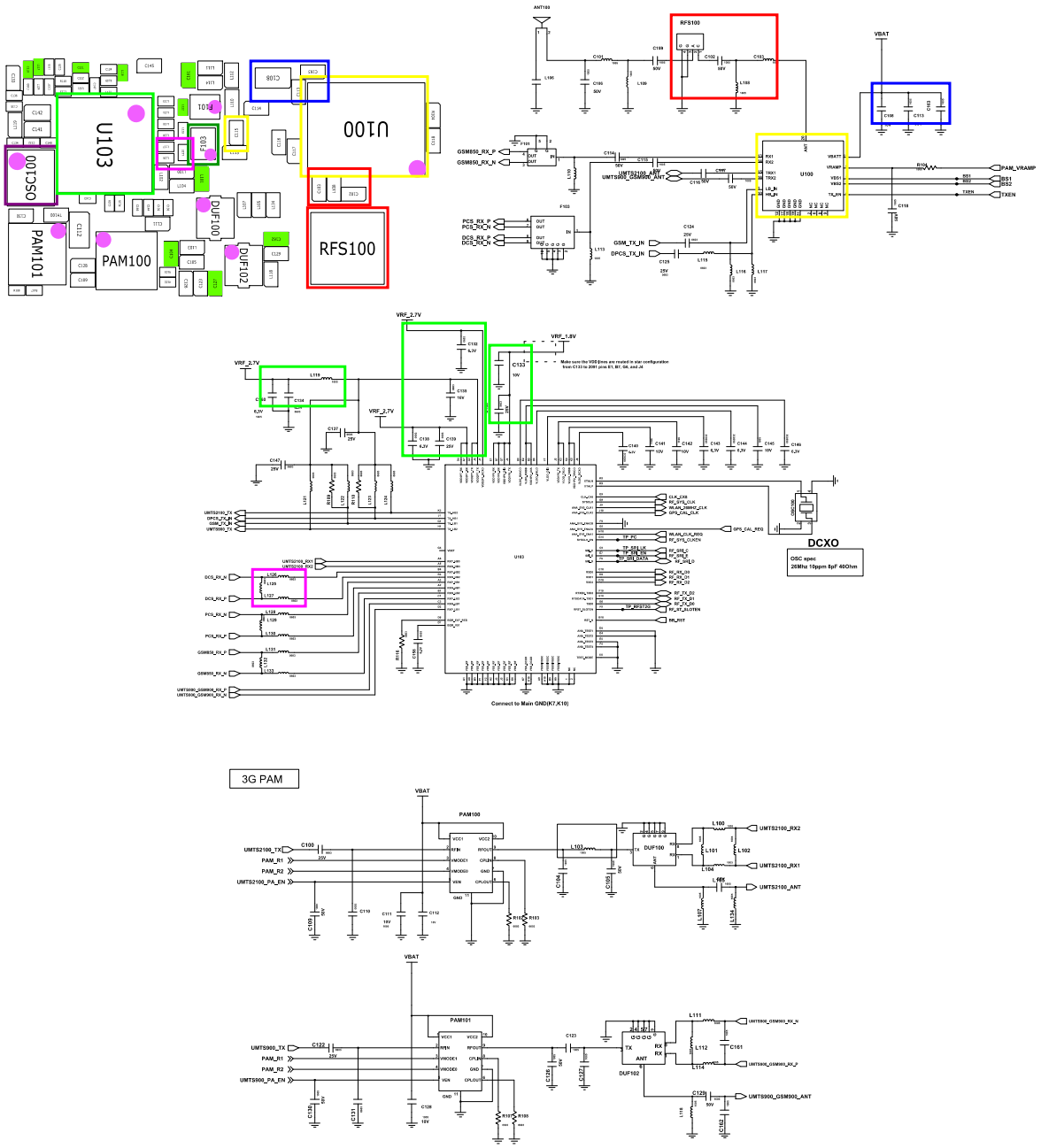
8-5-2. GSM 900/ WCDMA Band8 (900) Rx



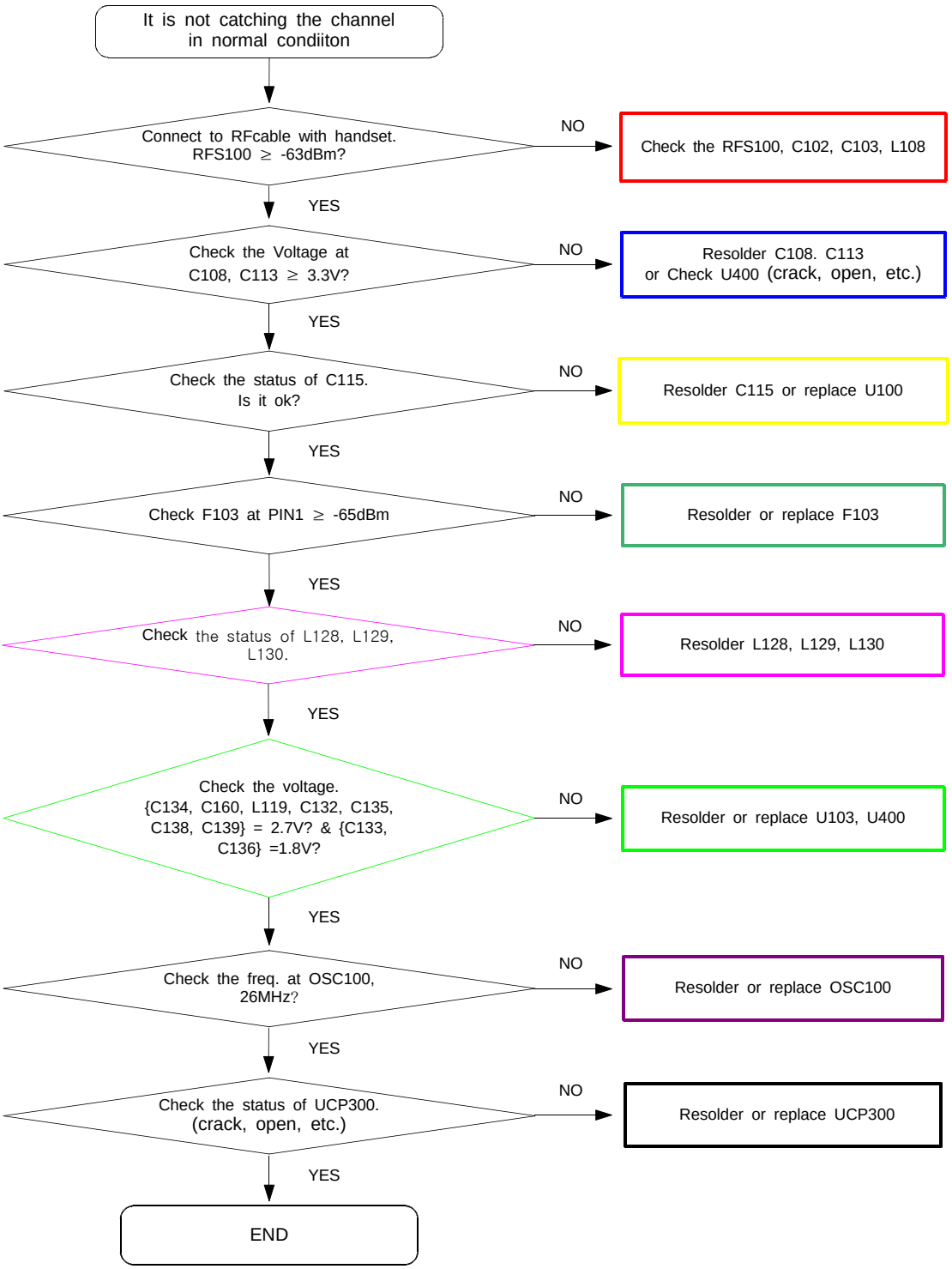


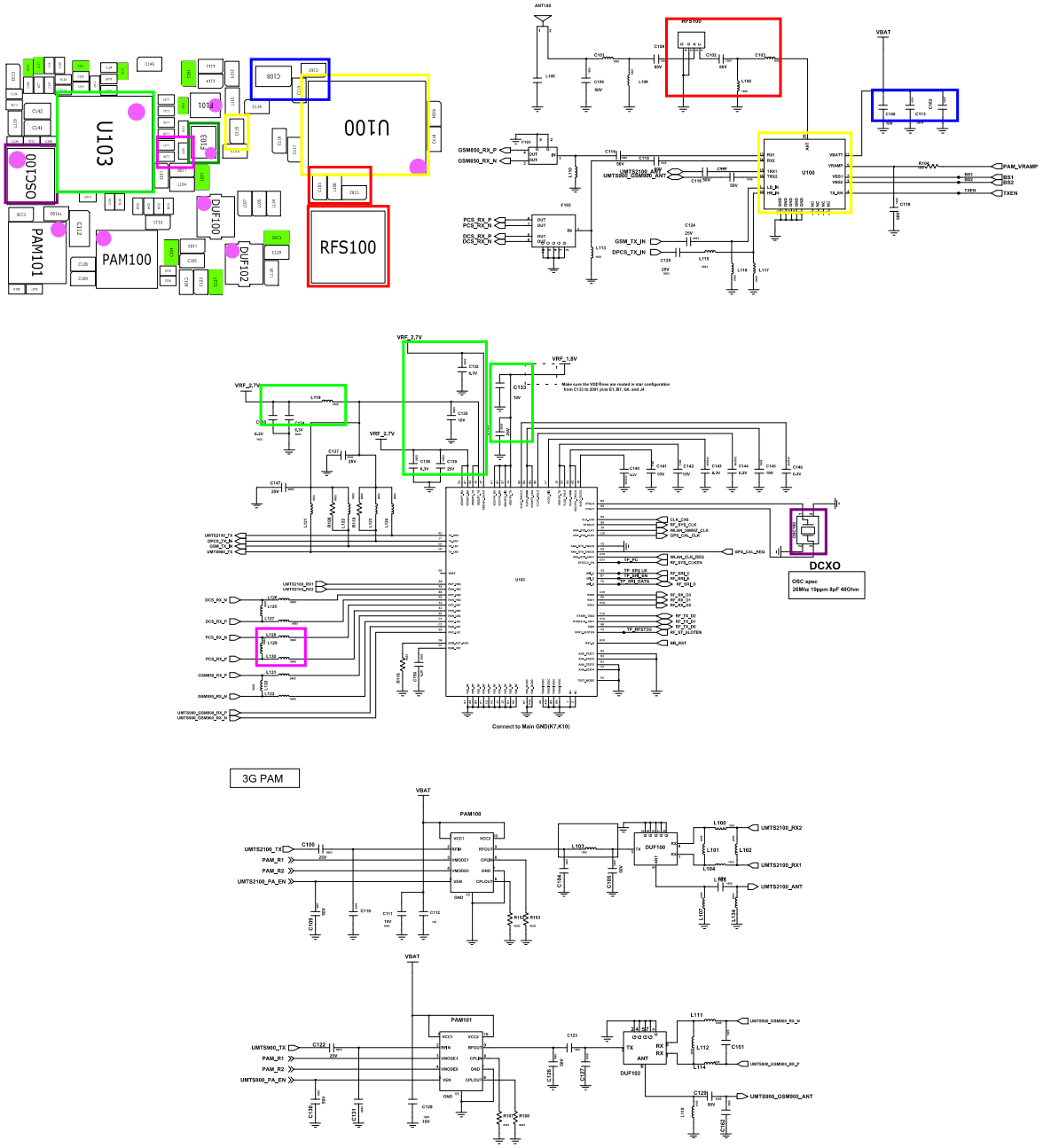
8-5-3. DCS1800 Rx



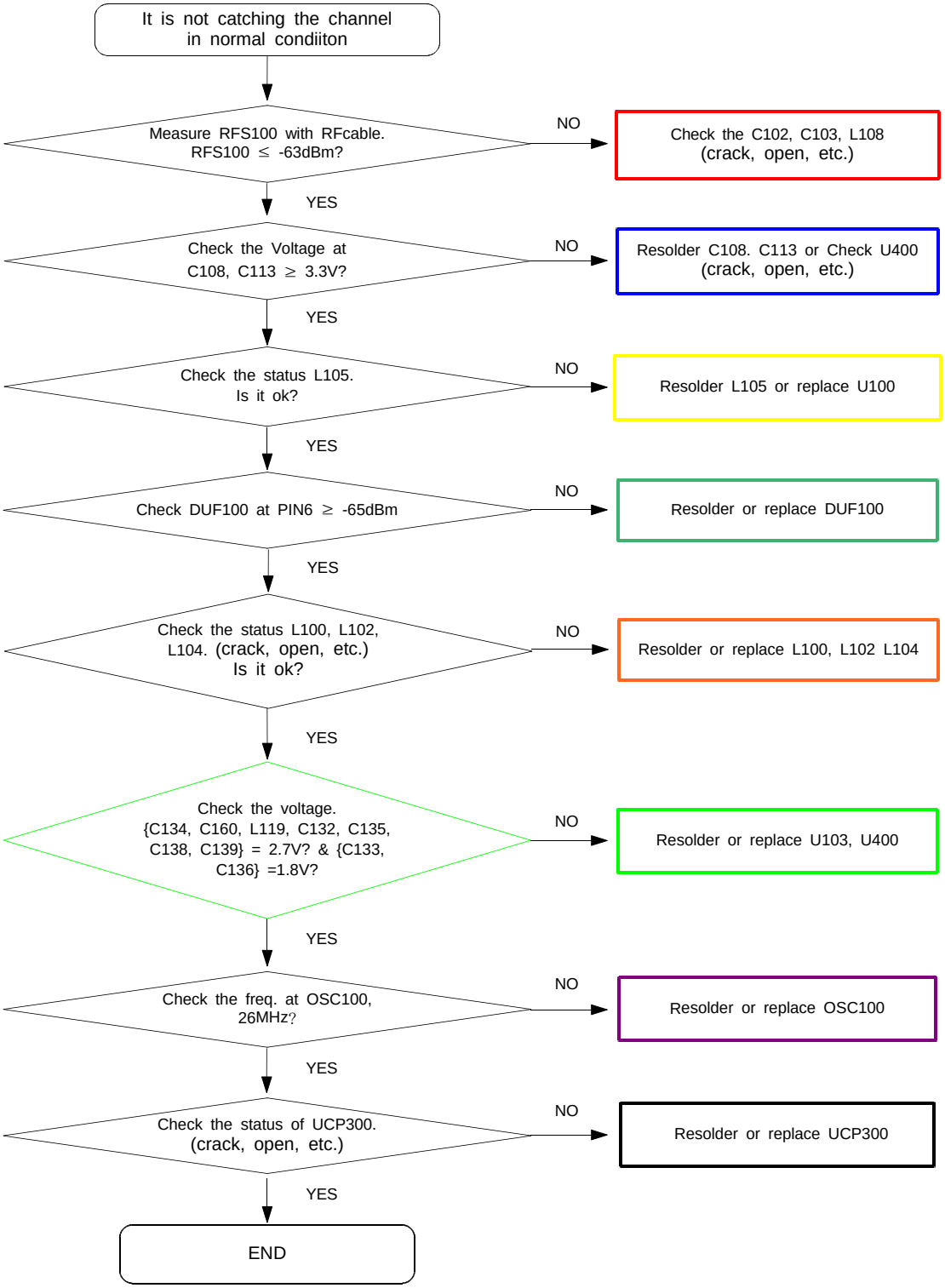


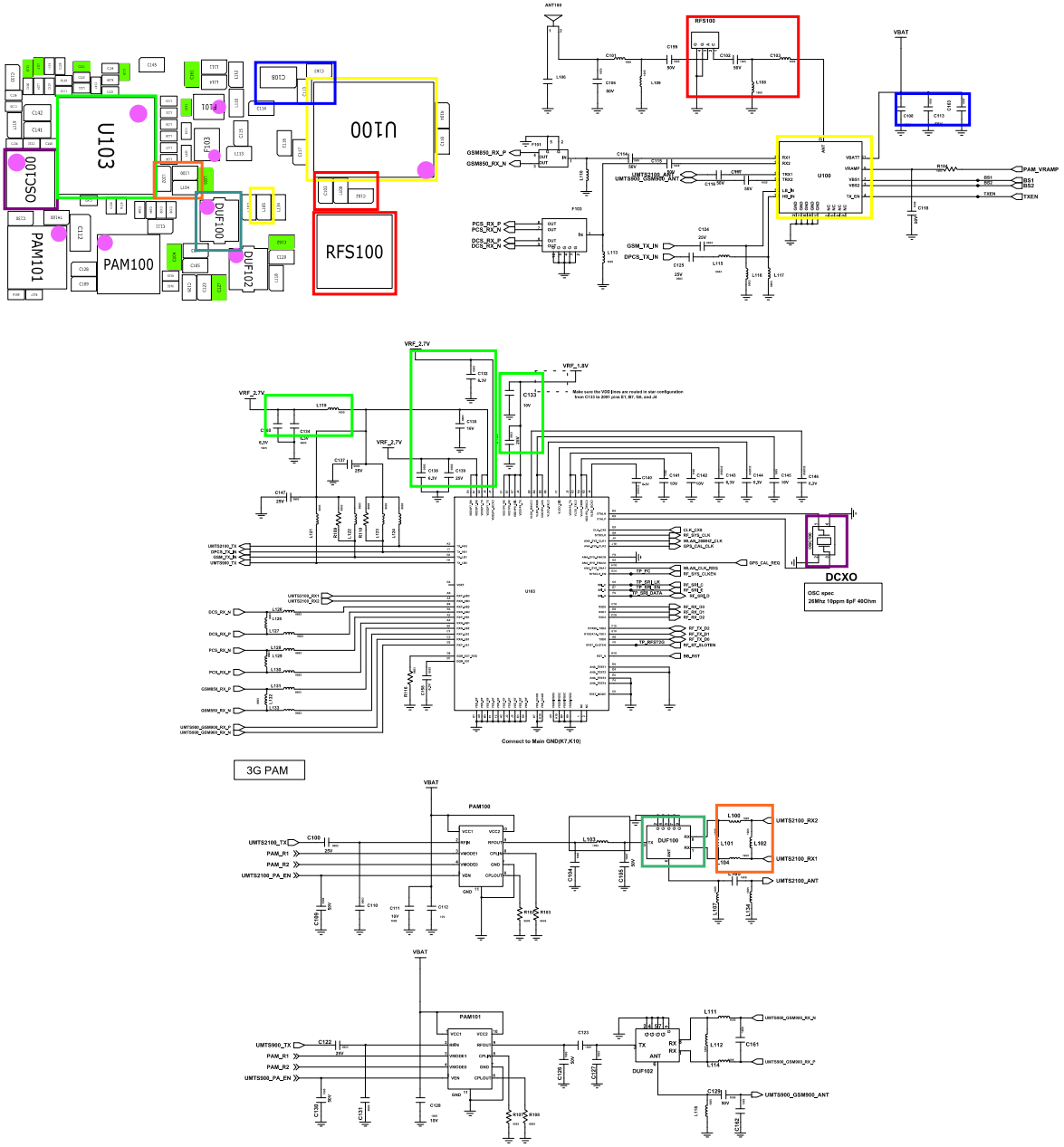
8-5-4. PCS1900 Rx



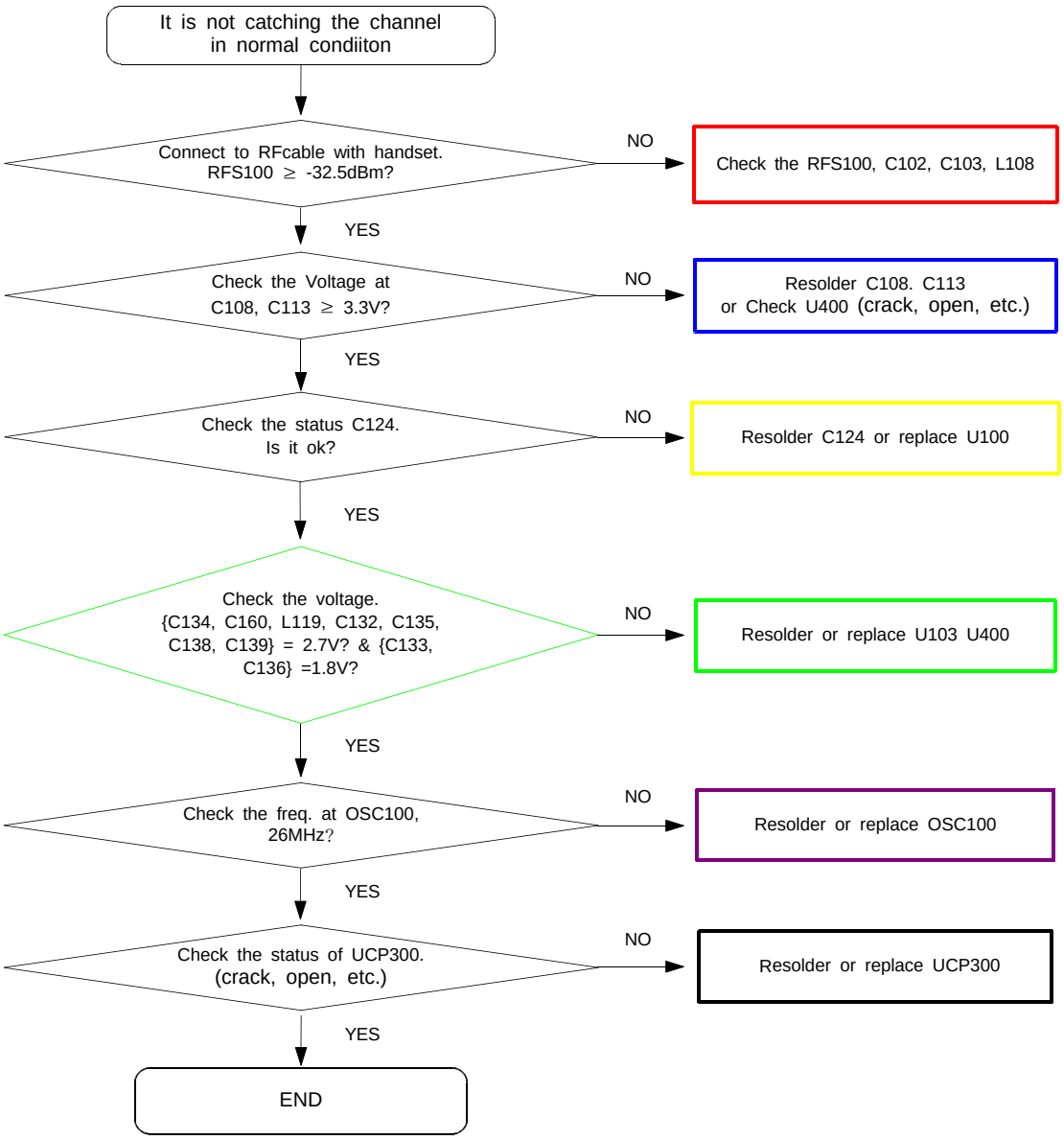


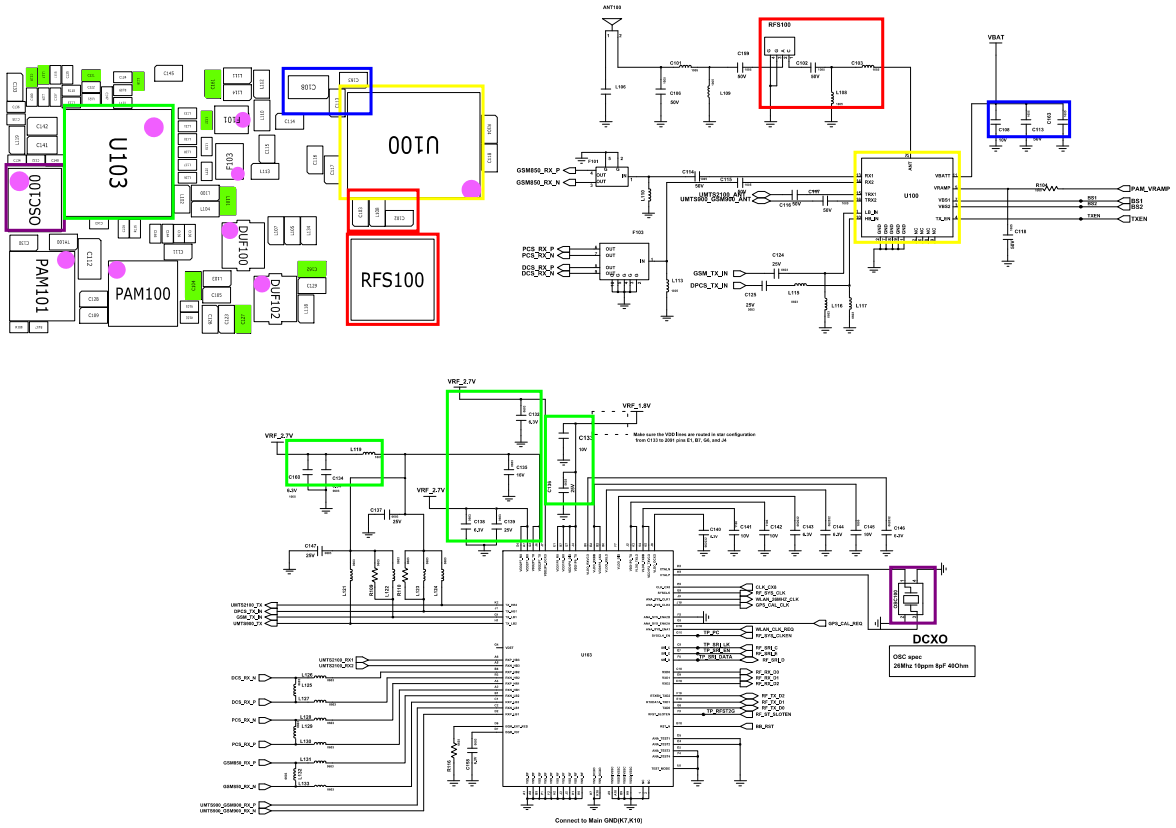
8-5-5. WCDMA Band1 (2100) Rx



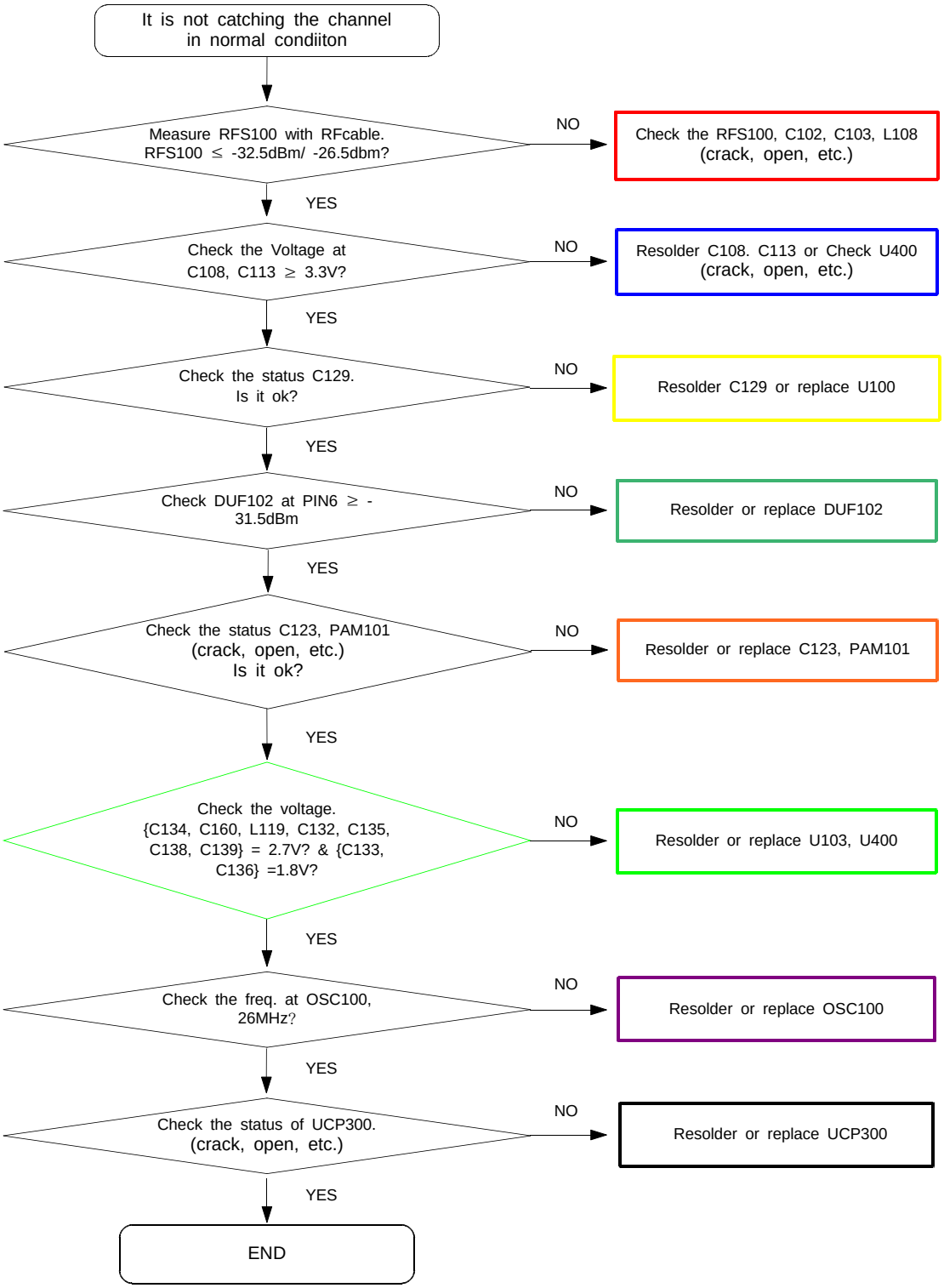


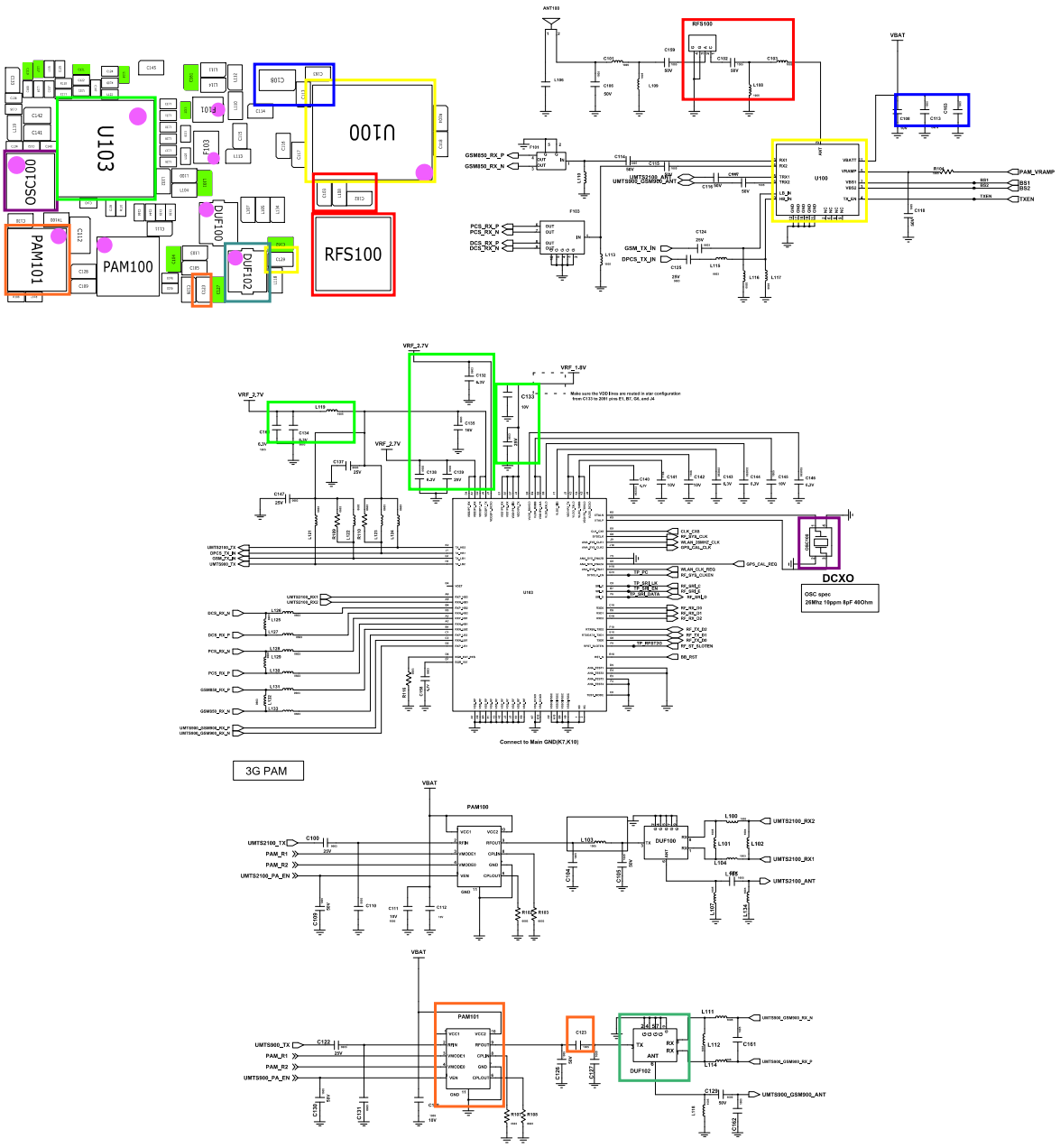
8-5-6. GSM 850 Tx



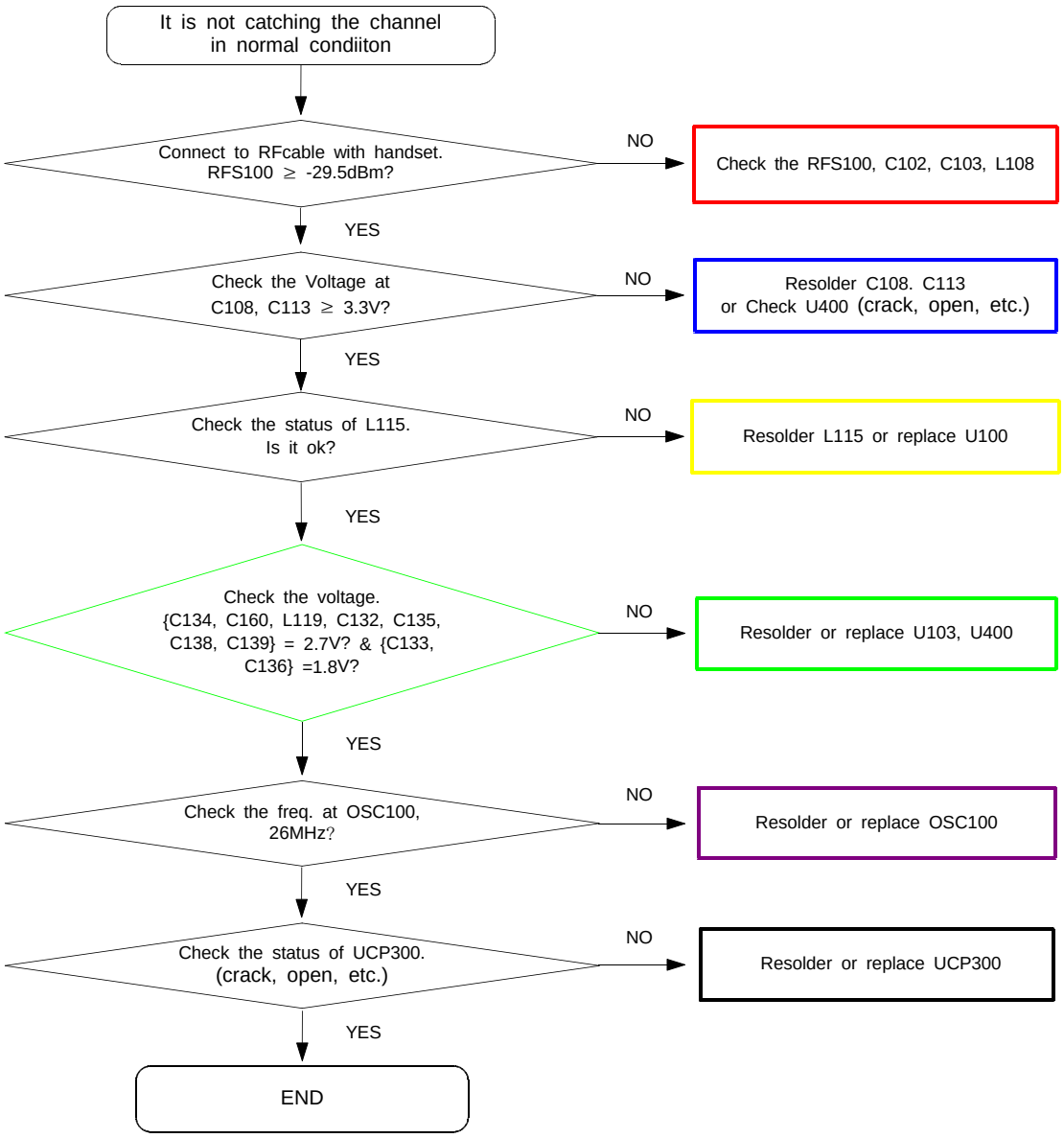


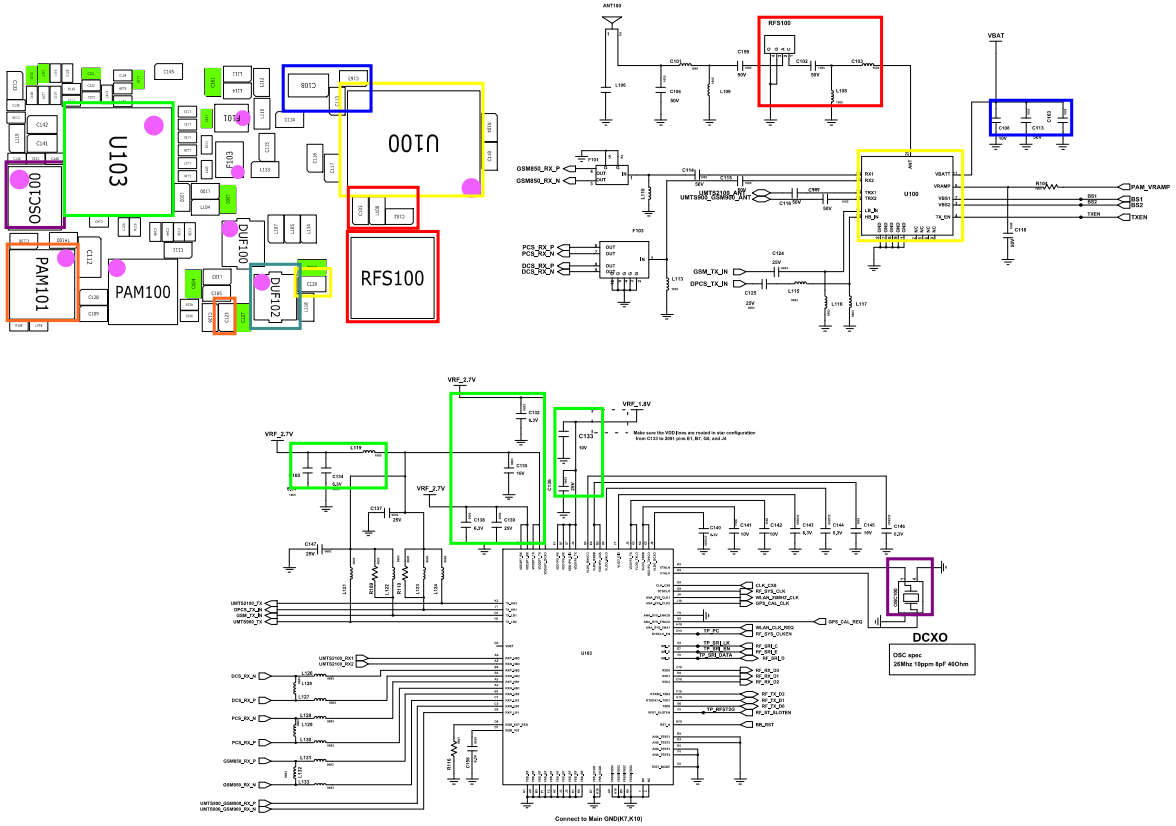
8-5-7. GSM 900 / UMTS 900 Tx



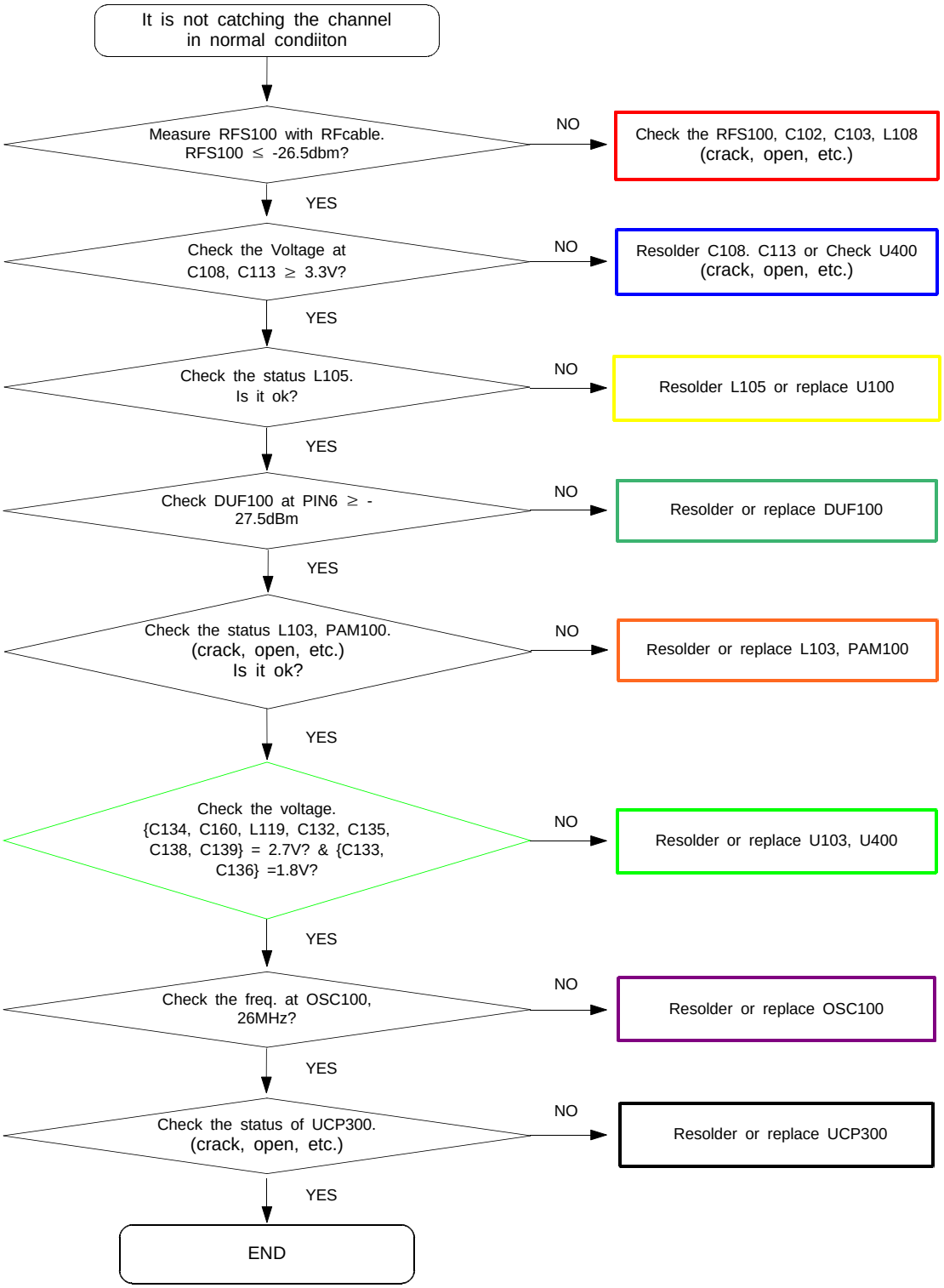


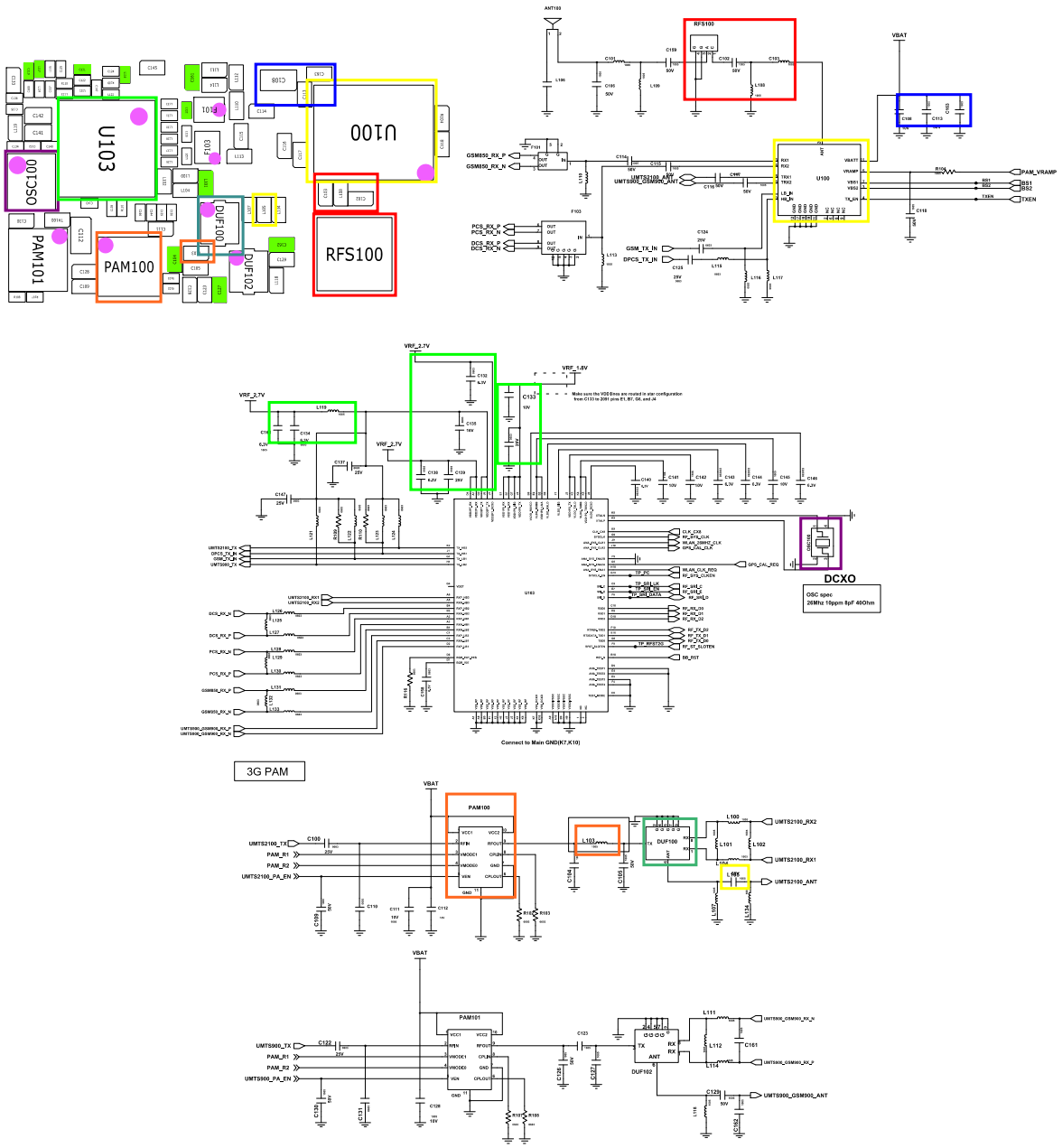
8-5-8. DCS / PCS Tx



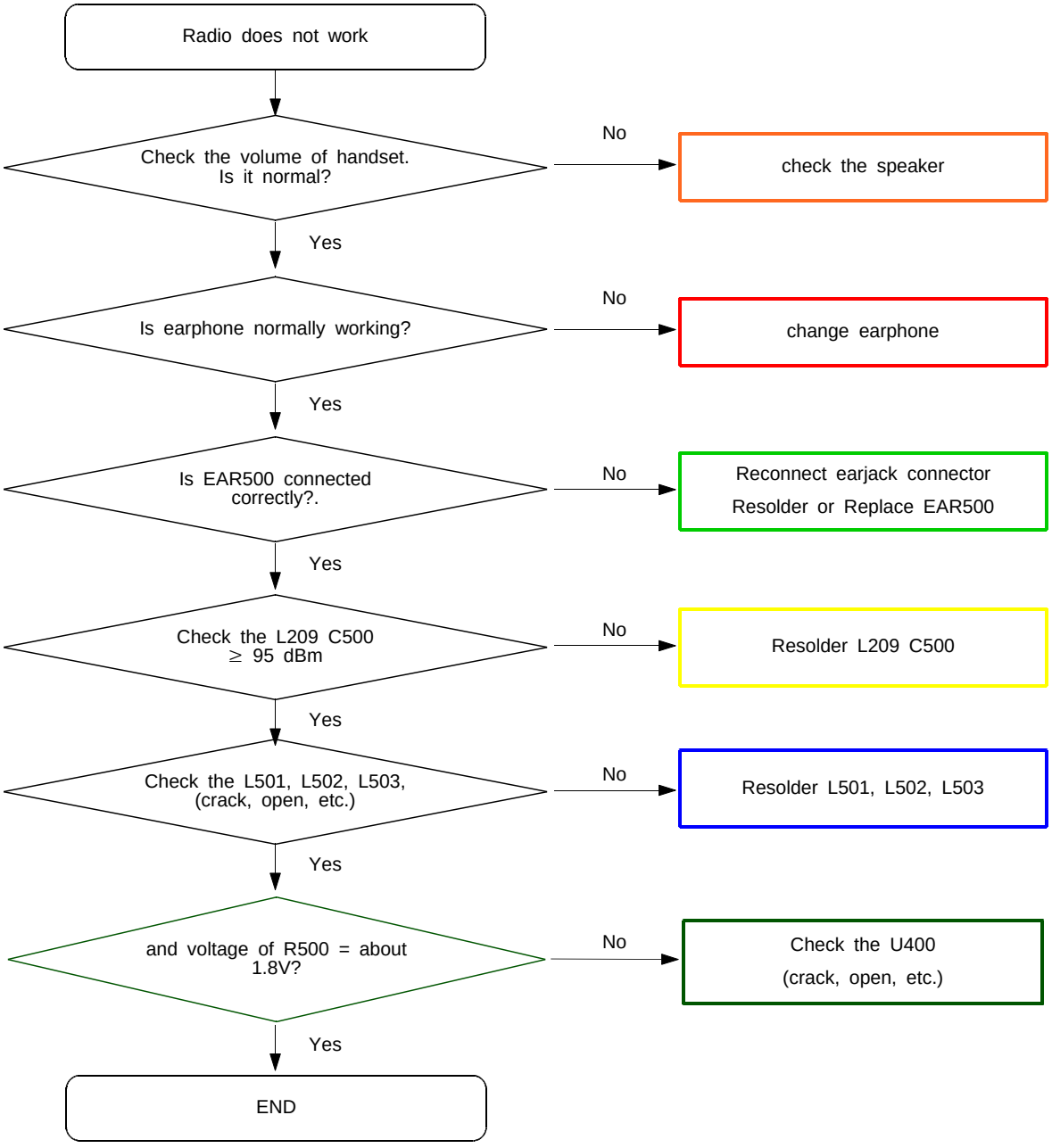


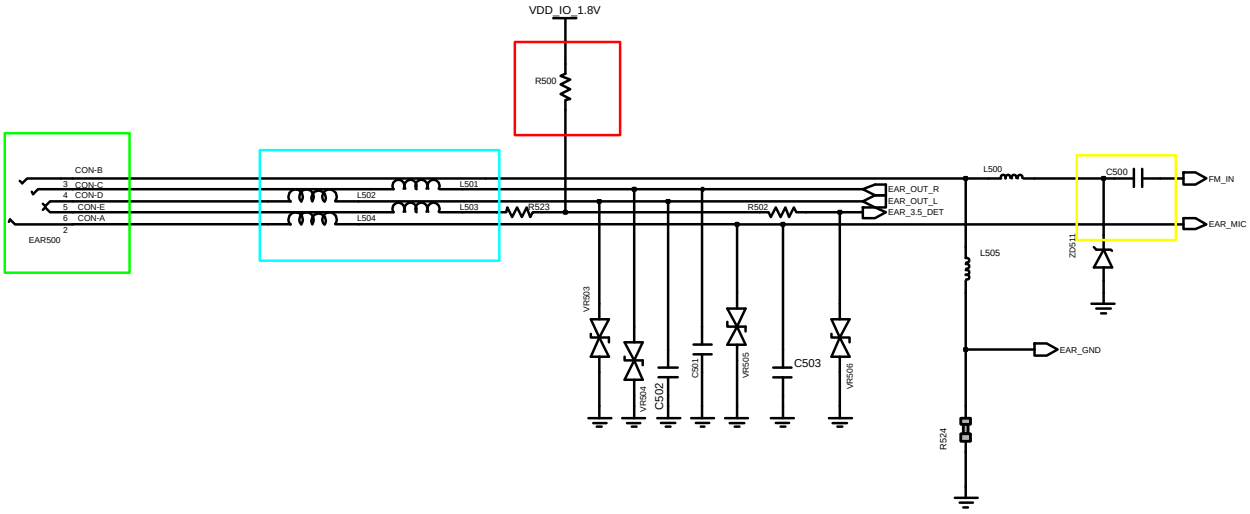
8-5-9. UMTS 2100 Tx

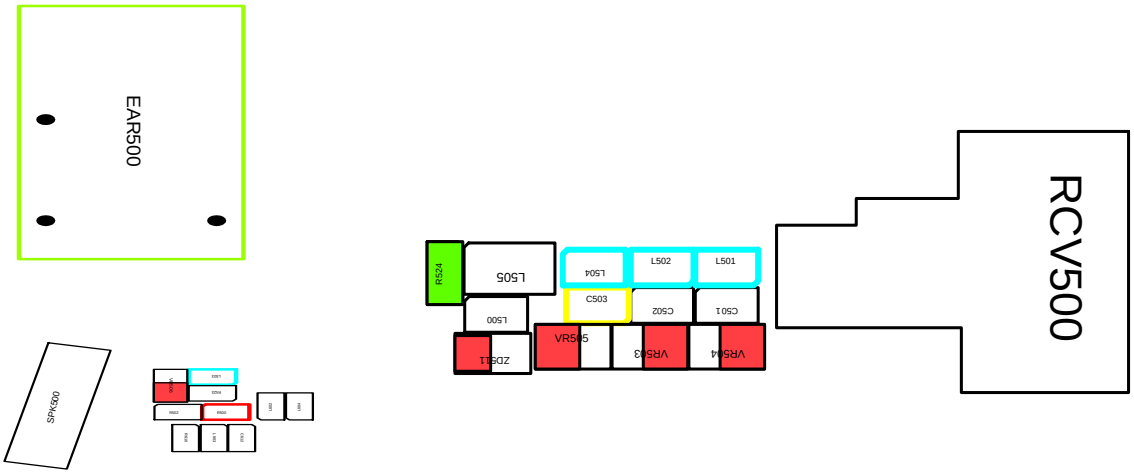


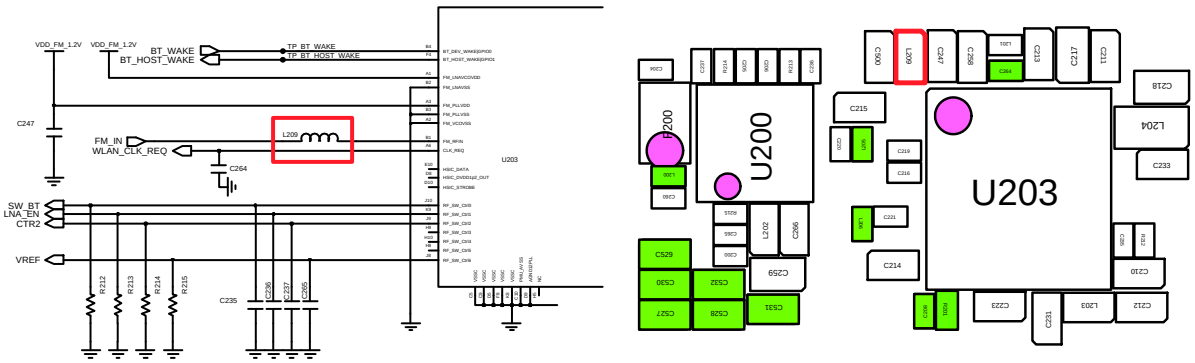


8-5-10. FM RADIO

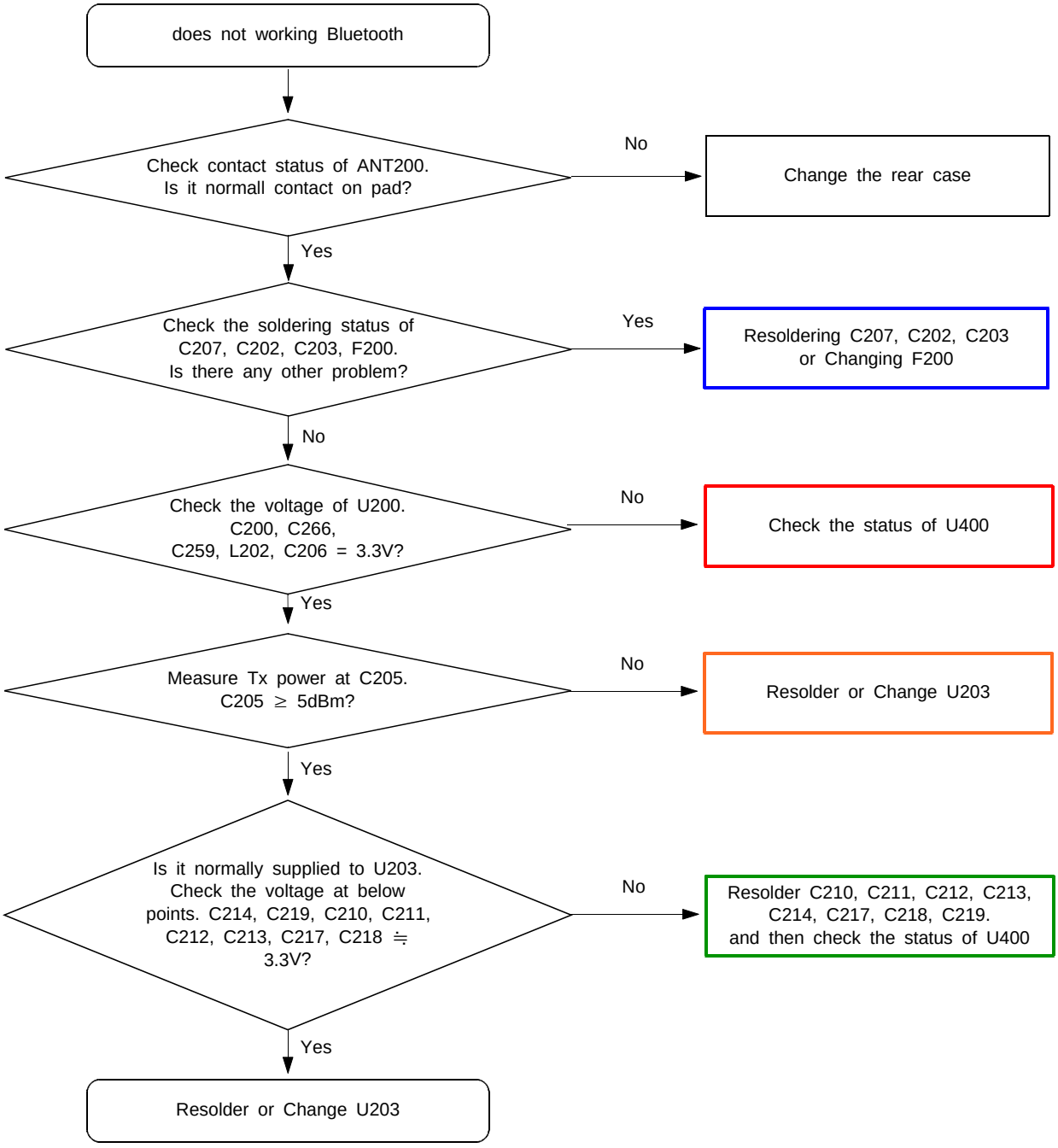


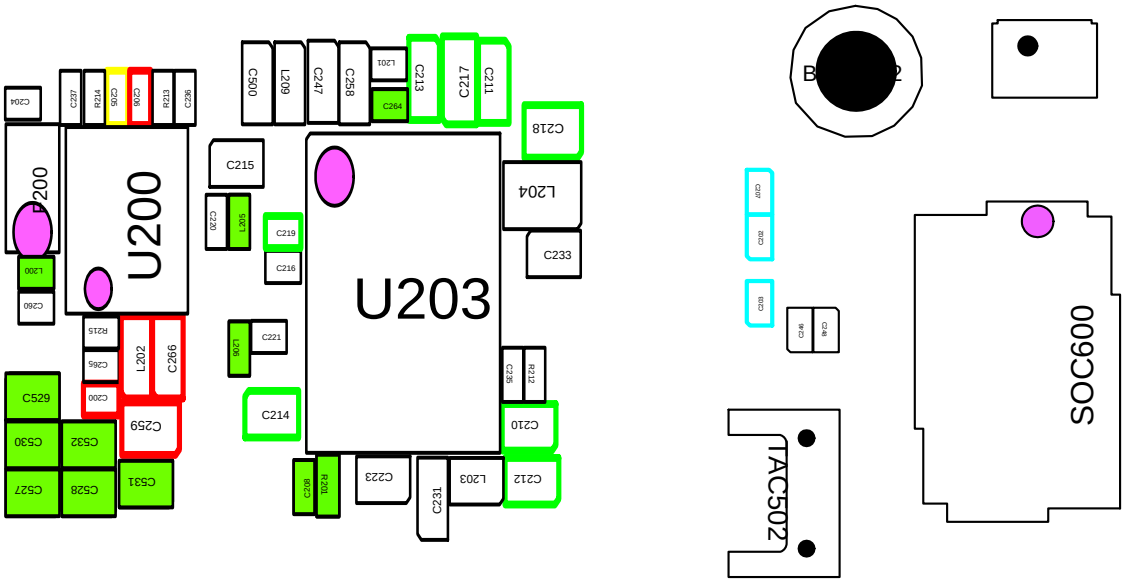


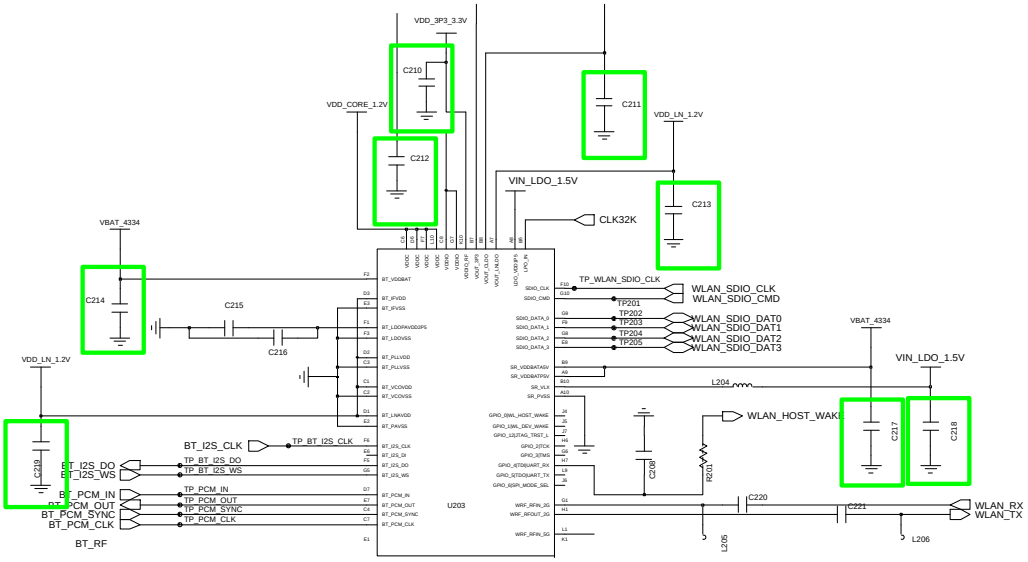


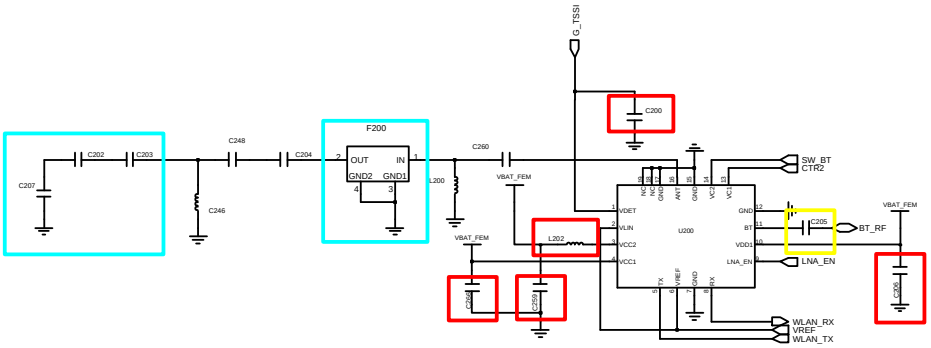


8-5-11. Bluetooth

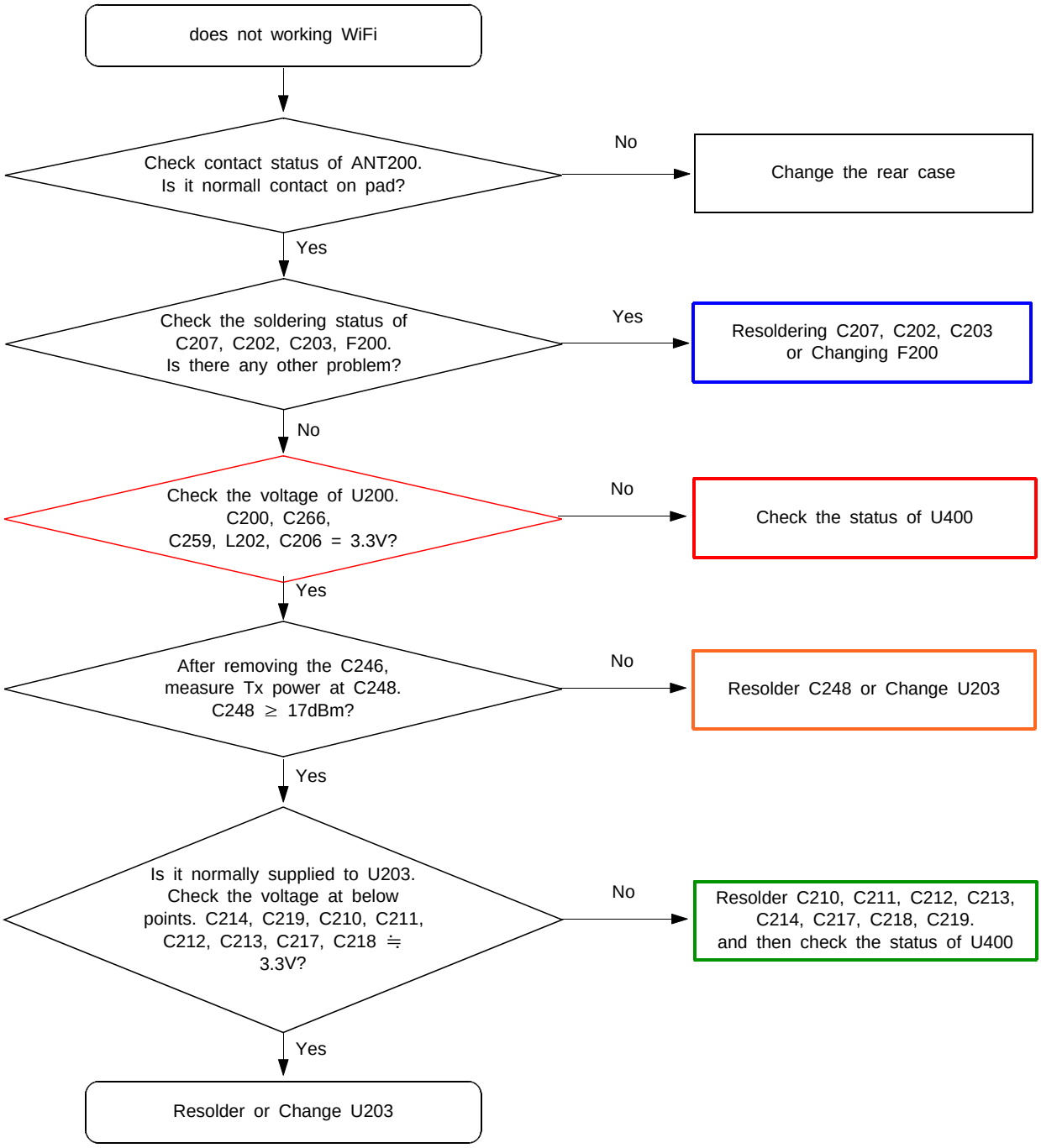


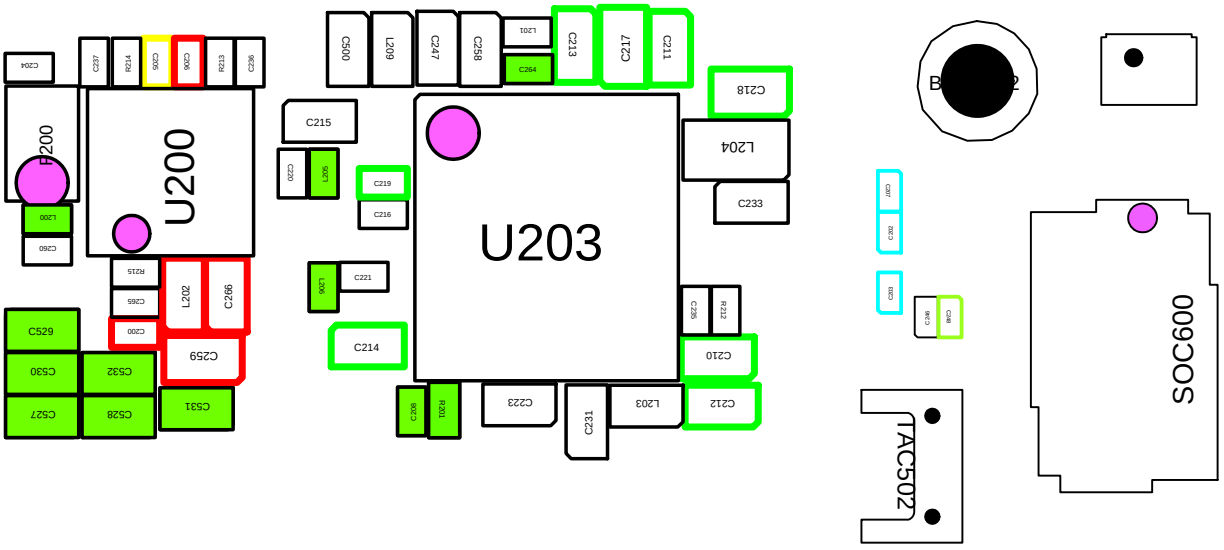


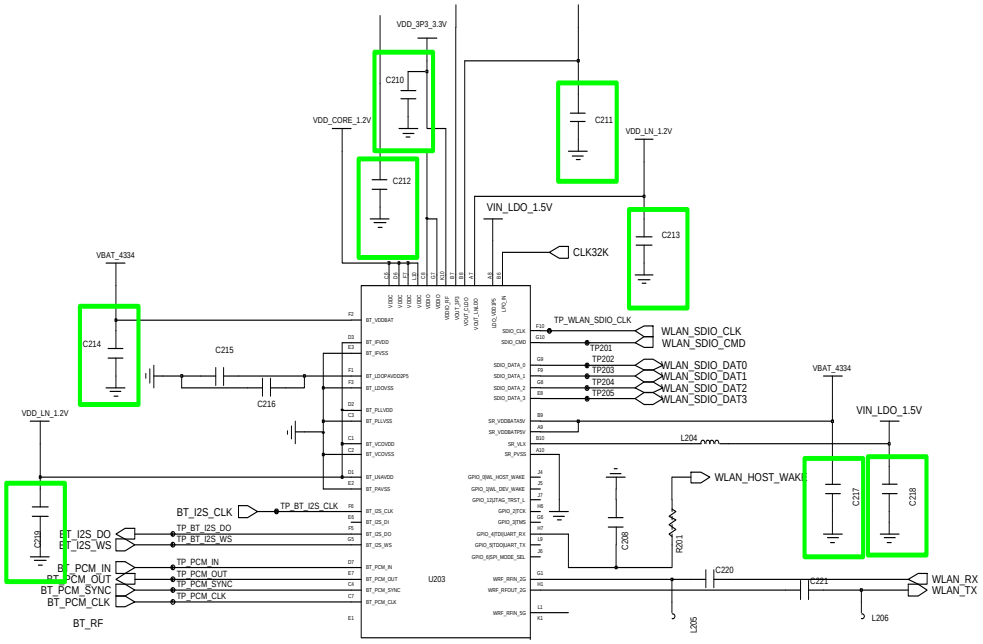


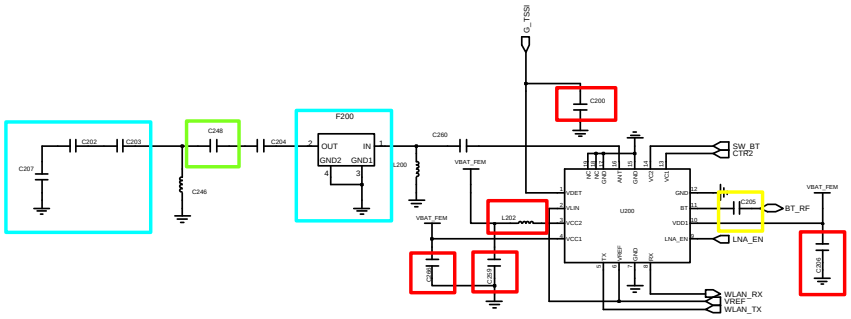


8-5-12. WiFi

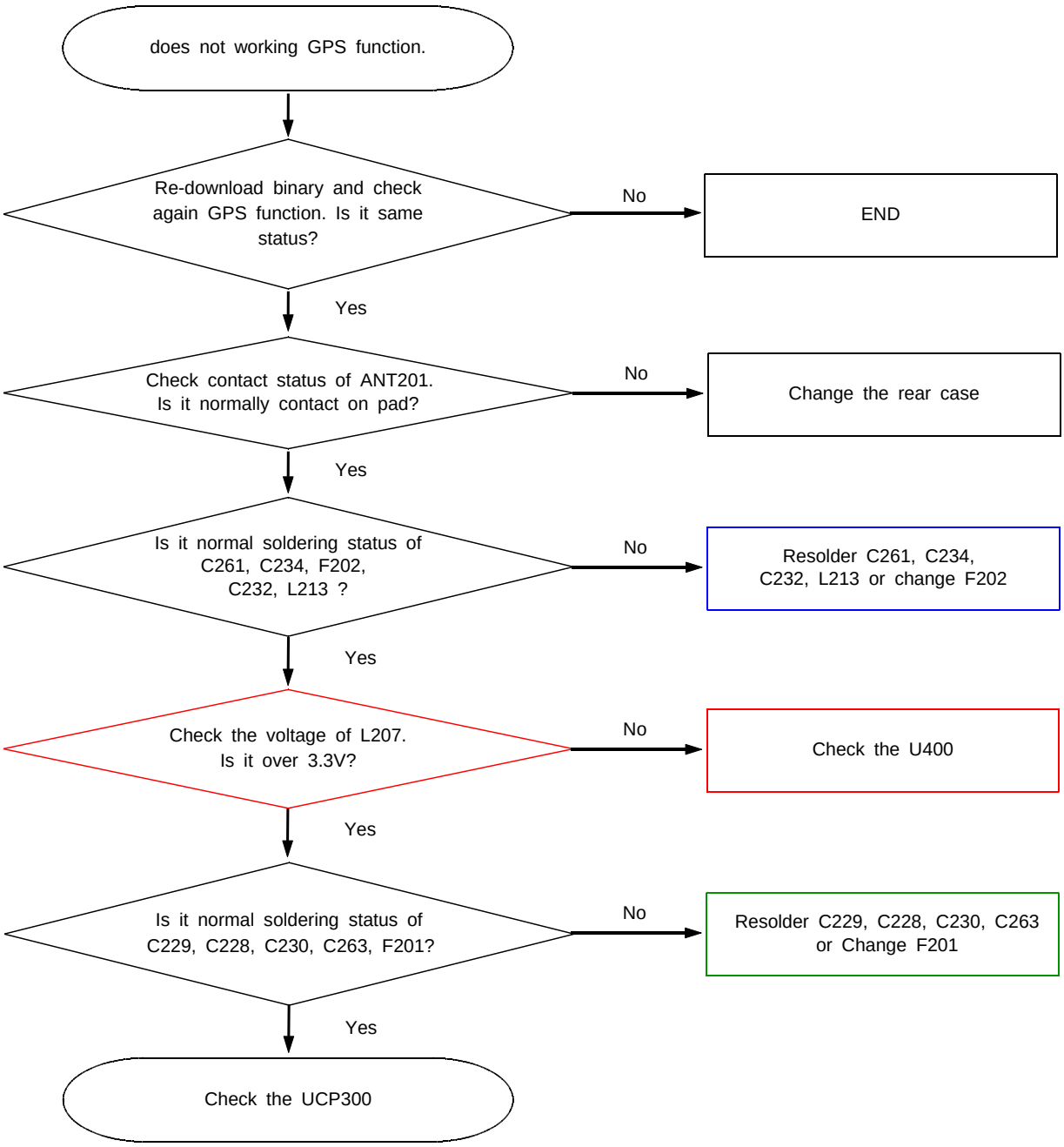


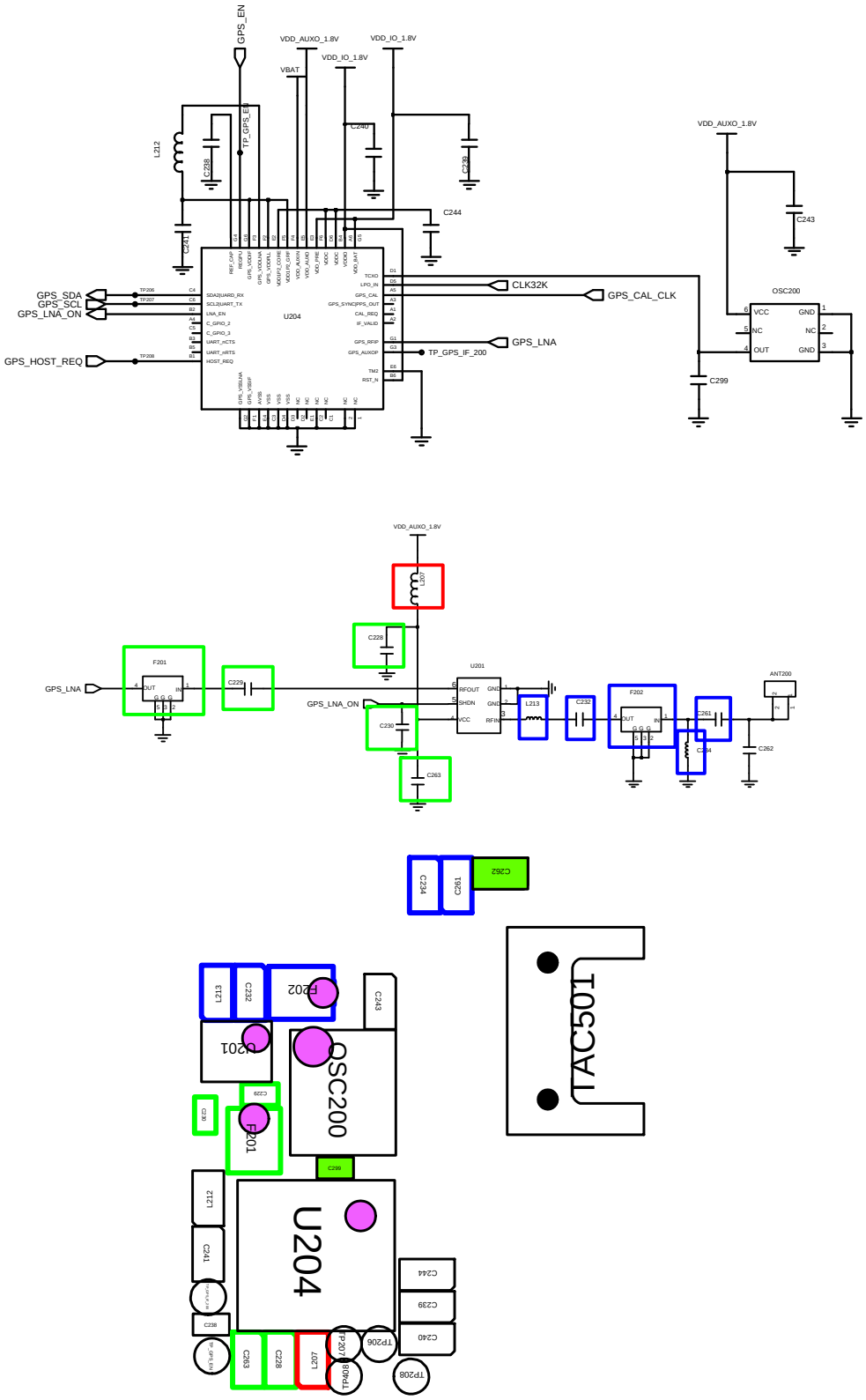






8-5-13. GPS





8-6. Service Schematics

- NC Point(Top View)

● : NC

UME300