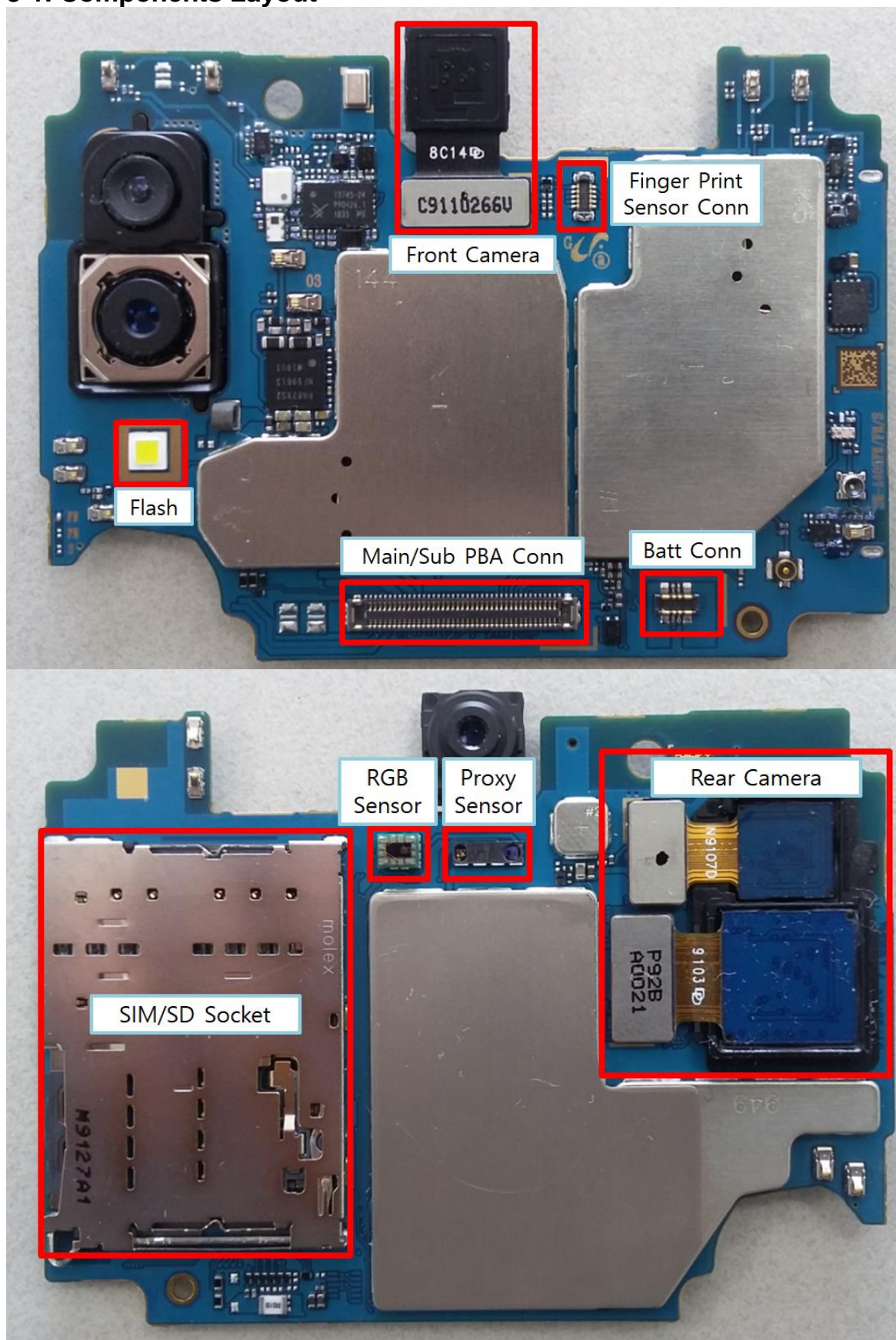
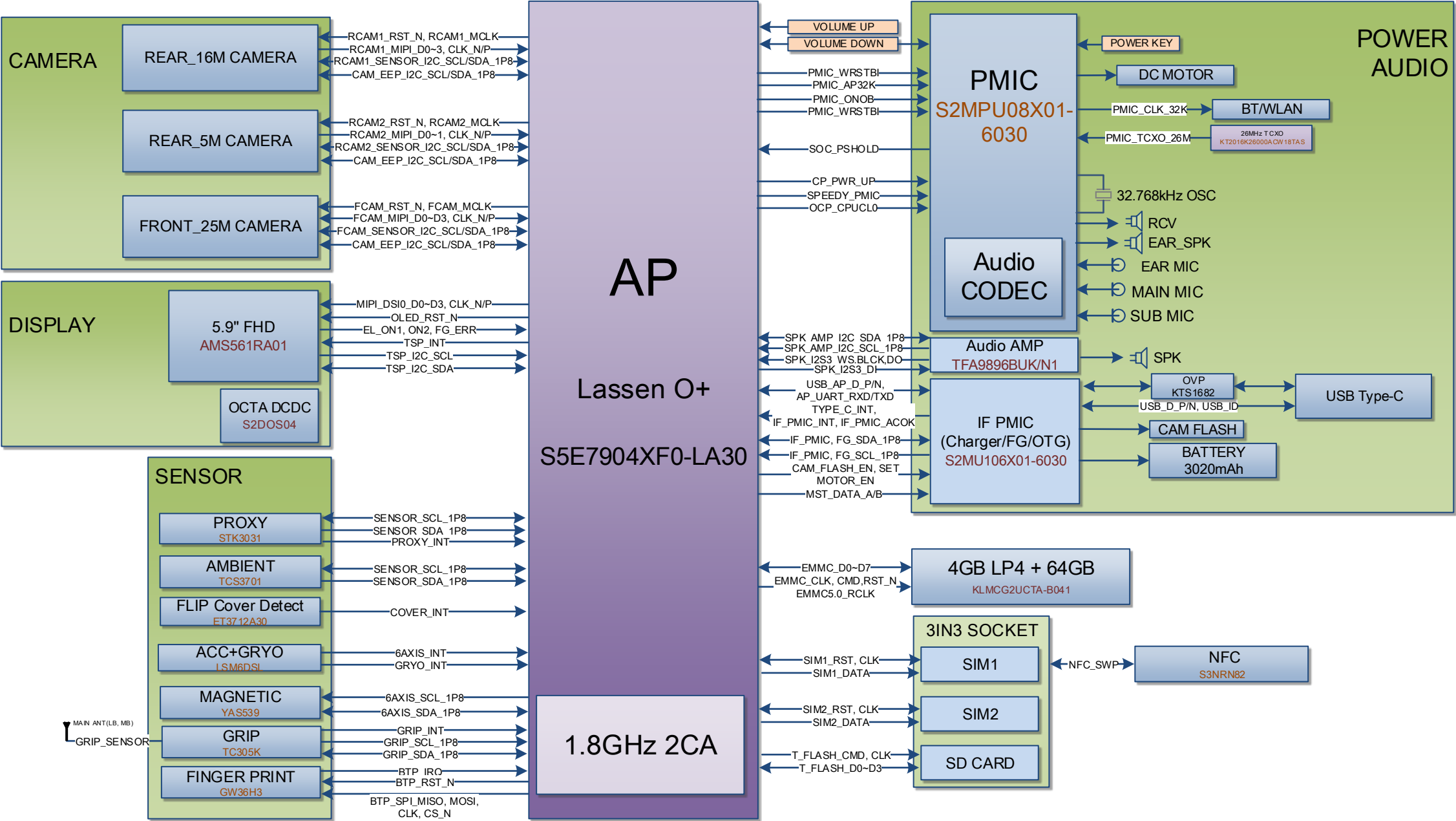

8. Level 3 Repair

8-1. Components Layout

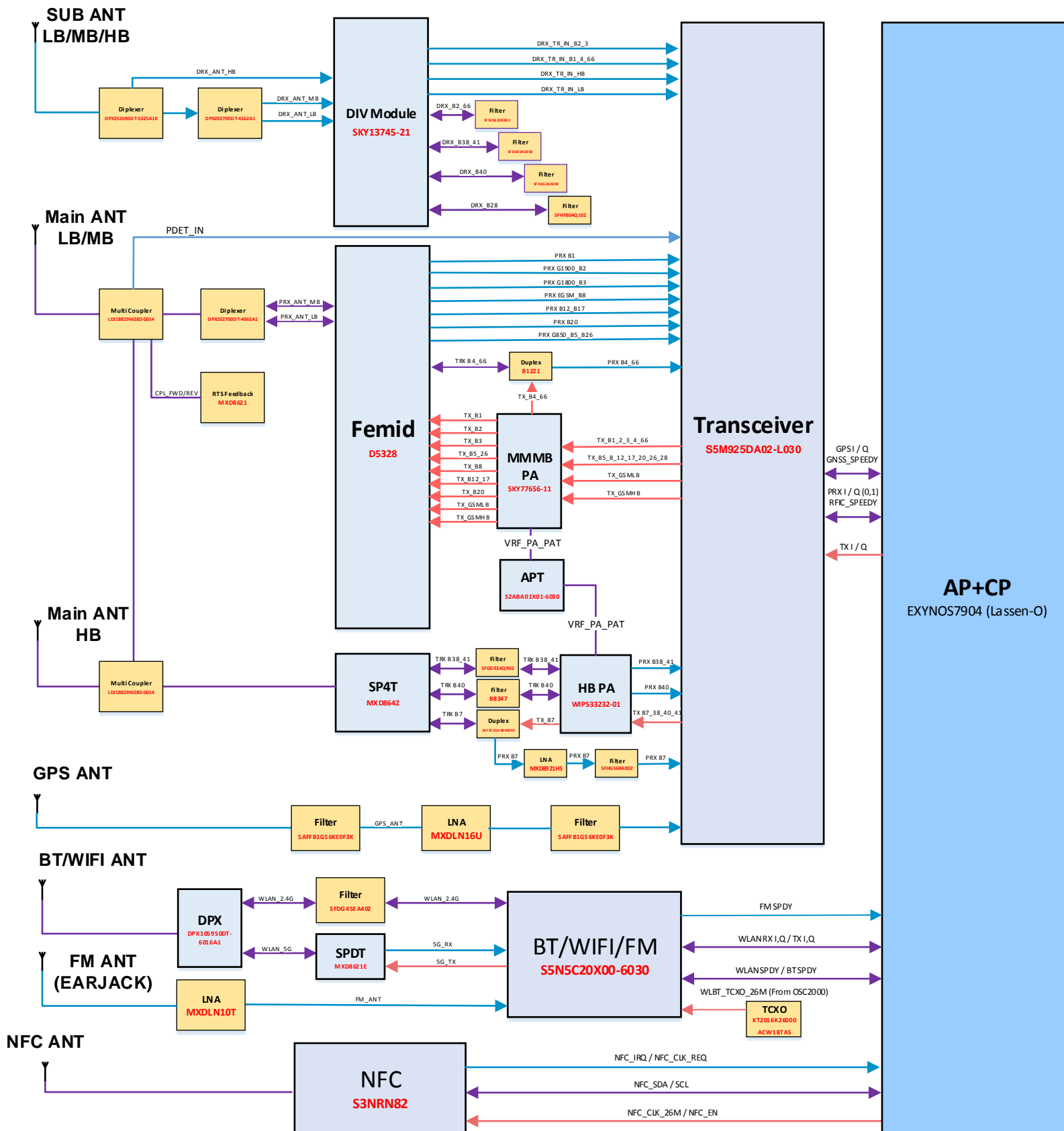


SM-A405FN Block Diagram

Confidential



SM-A405FN Block Diagram



SM-A405FN

Side etching

CON6002

SC6000

UME5000

UCP400



02800

HDC7003

HDC7000

CON6000

Side etching

SC6003

e etching

Side etching

Side etching

Side etching

HDC7002

SC6001

U5002

SC6002

U2004

U1008

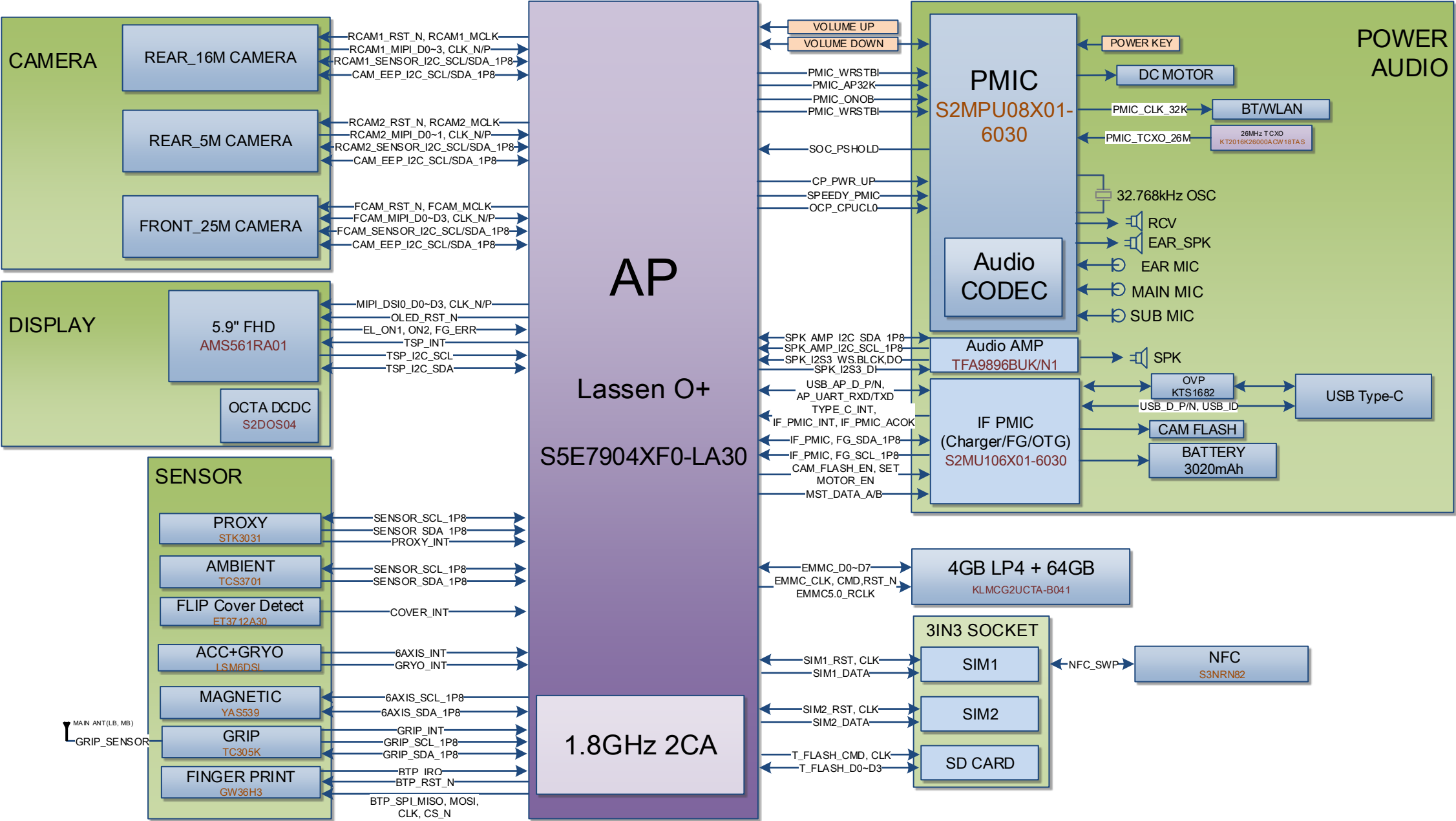
S0C7000

Side etching

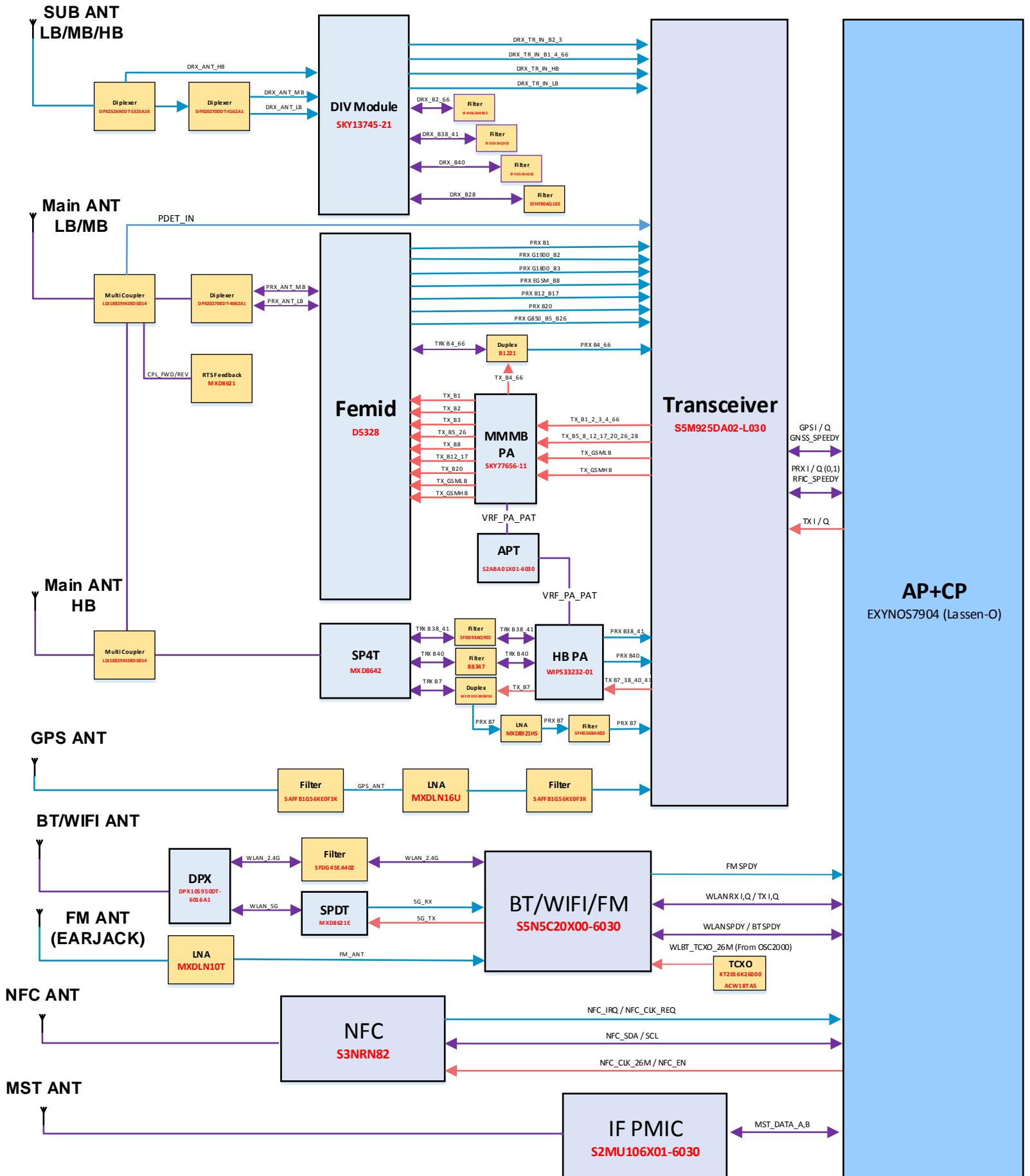
etching

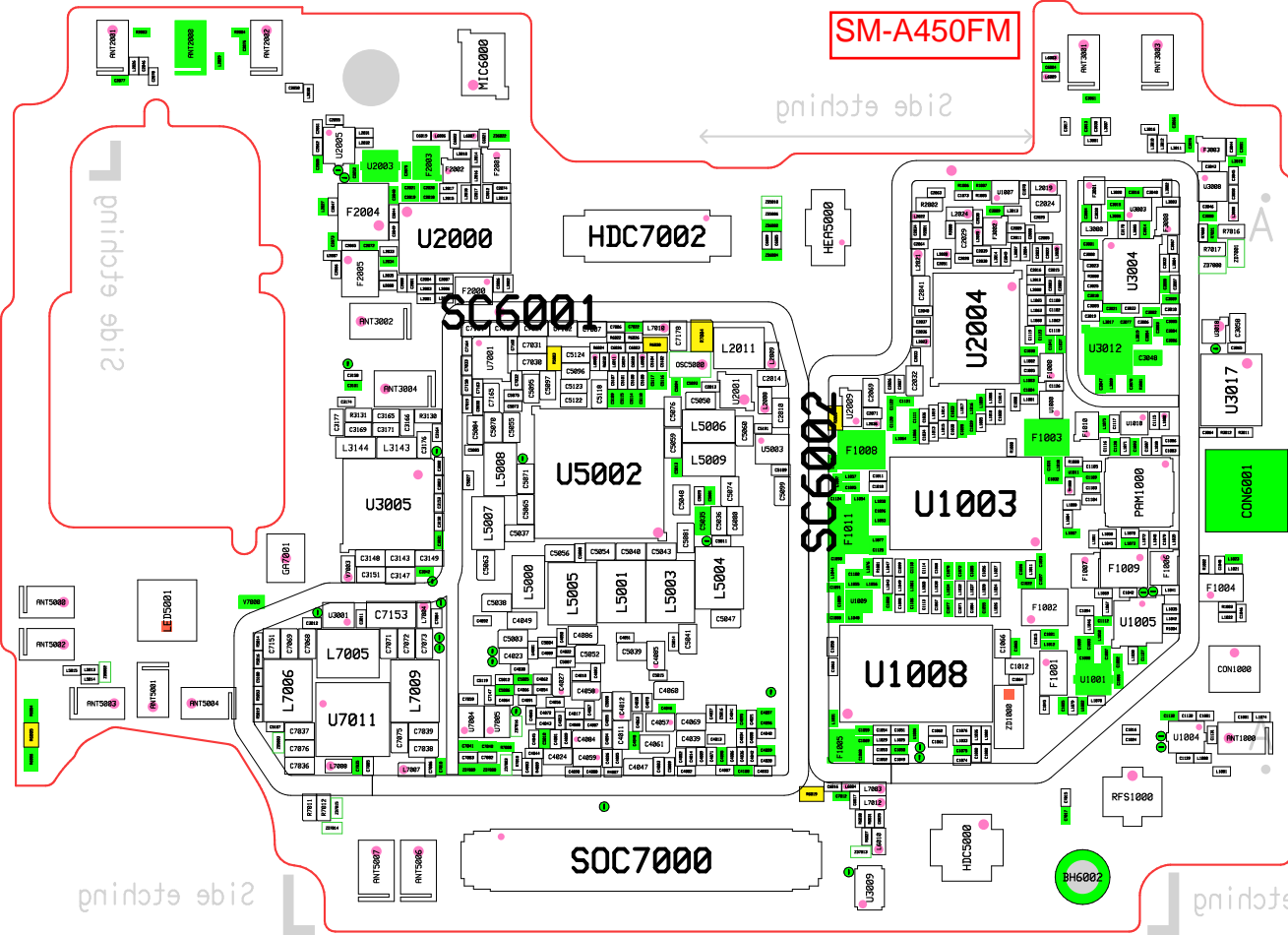
SM-A405FN Block Diagram

Confidential



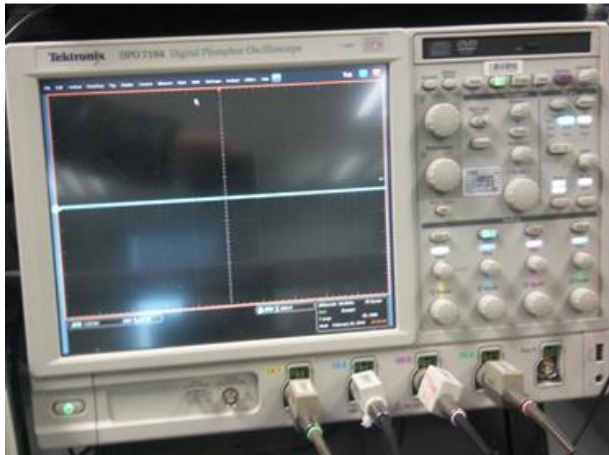
SM-A405FM Block Diagram





8. Level 3 Repair

8-3. Flow chart of Troubleshooting.



Oscilloscope



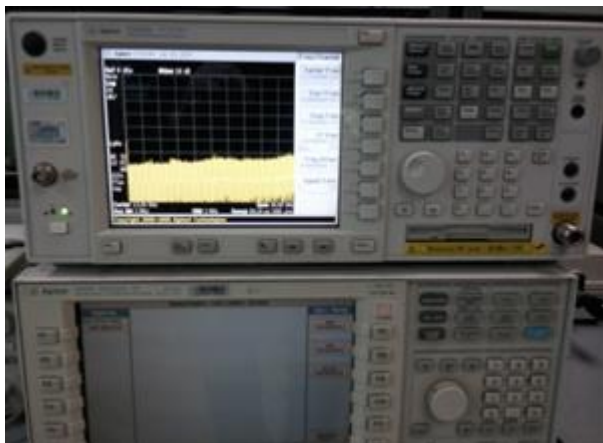
Digital Multimeter



Power Supply



+ driver, ESD Safe Tweezer



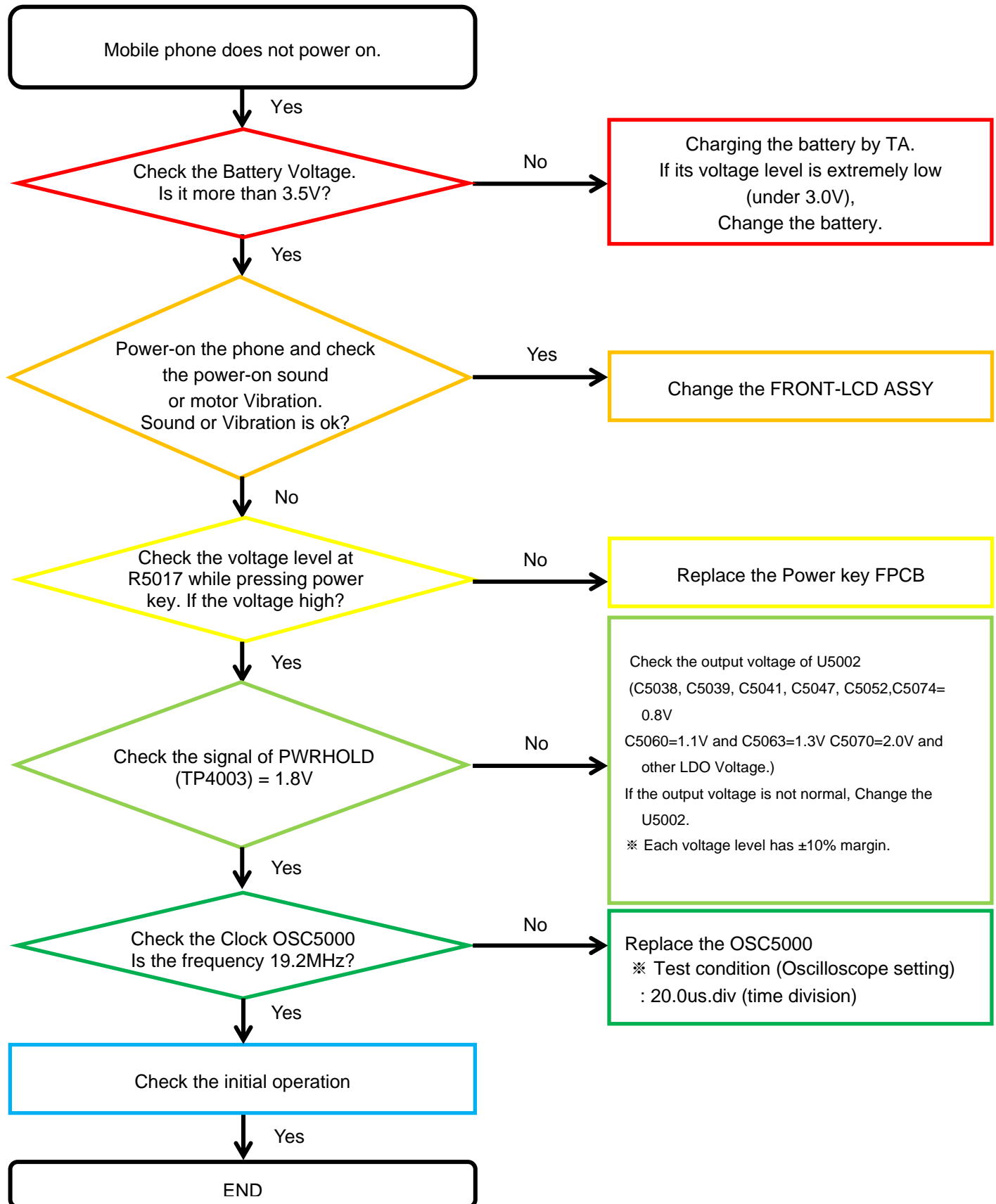
8960 & Spectrum Analyzer



Soldering iron

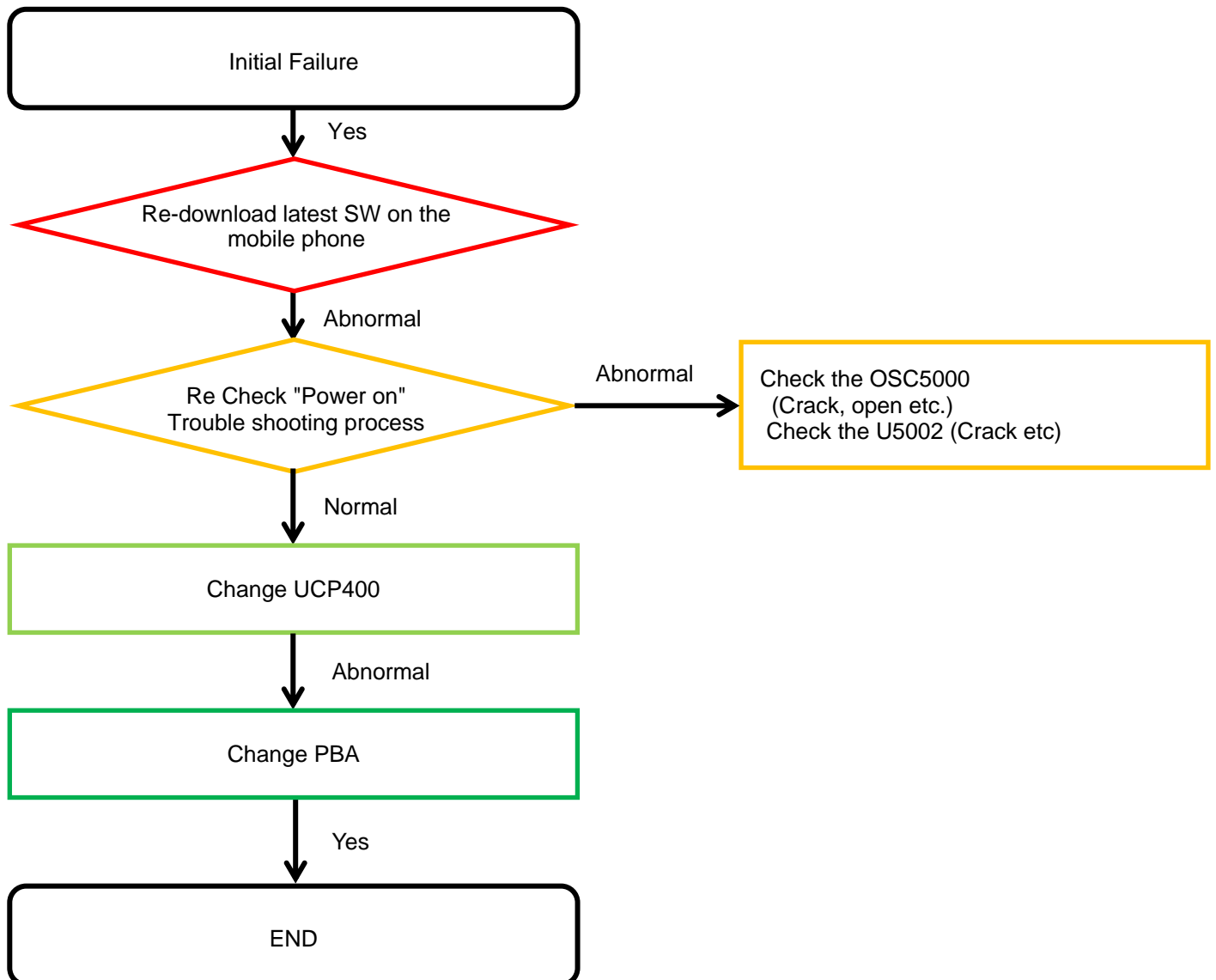
8. Level 3 Repair

8-4-1. Power On



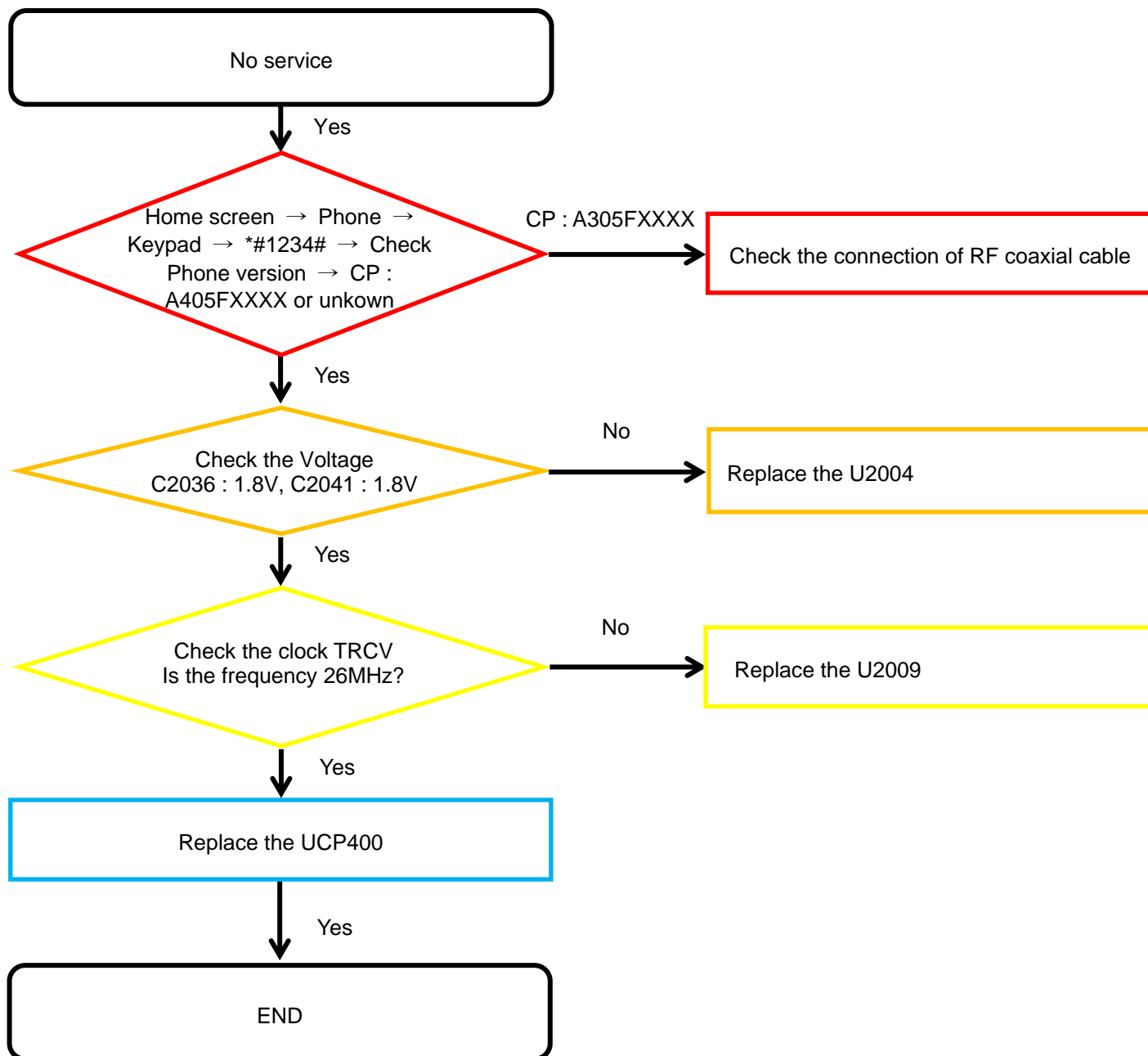
8. Level 3 Repair

8-4-2. Initial



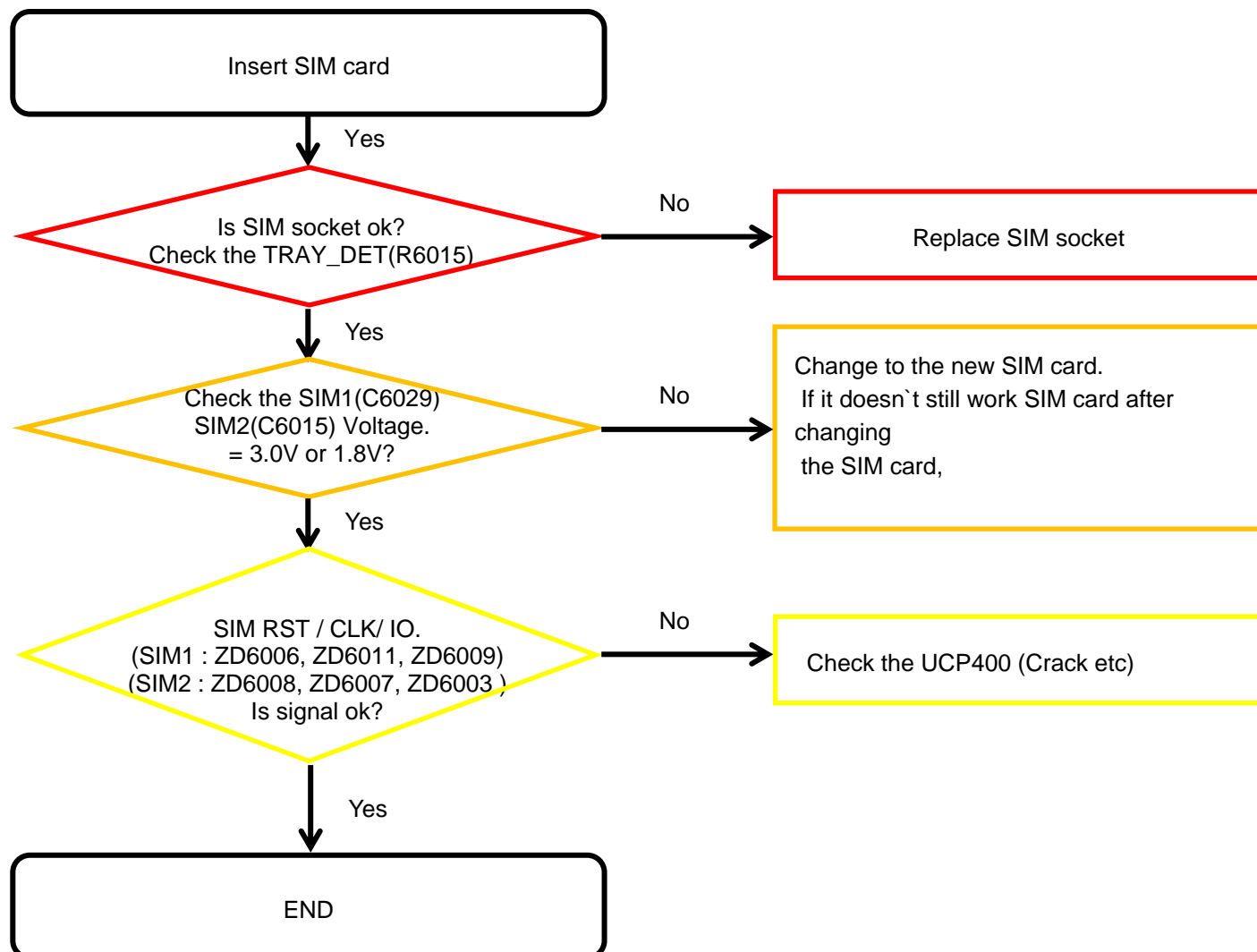
8. Level 3 Repair

8-4-3. No Service



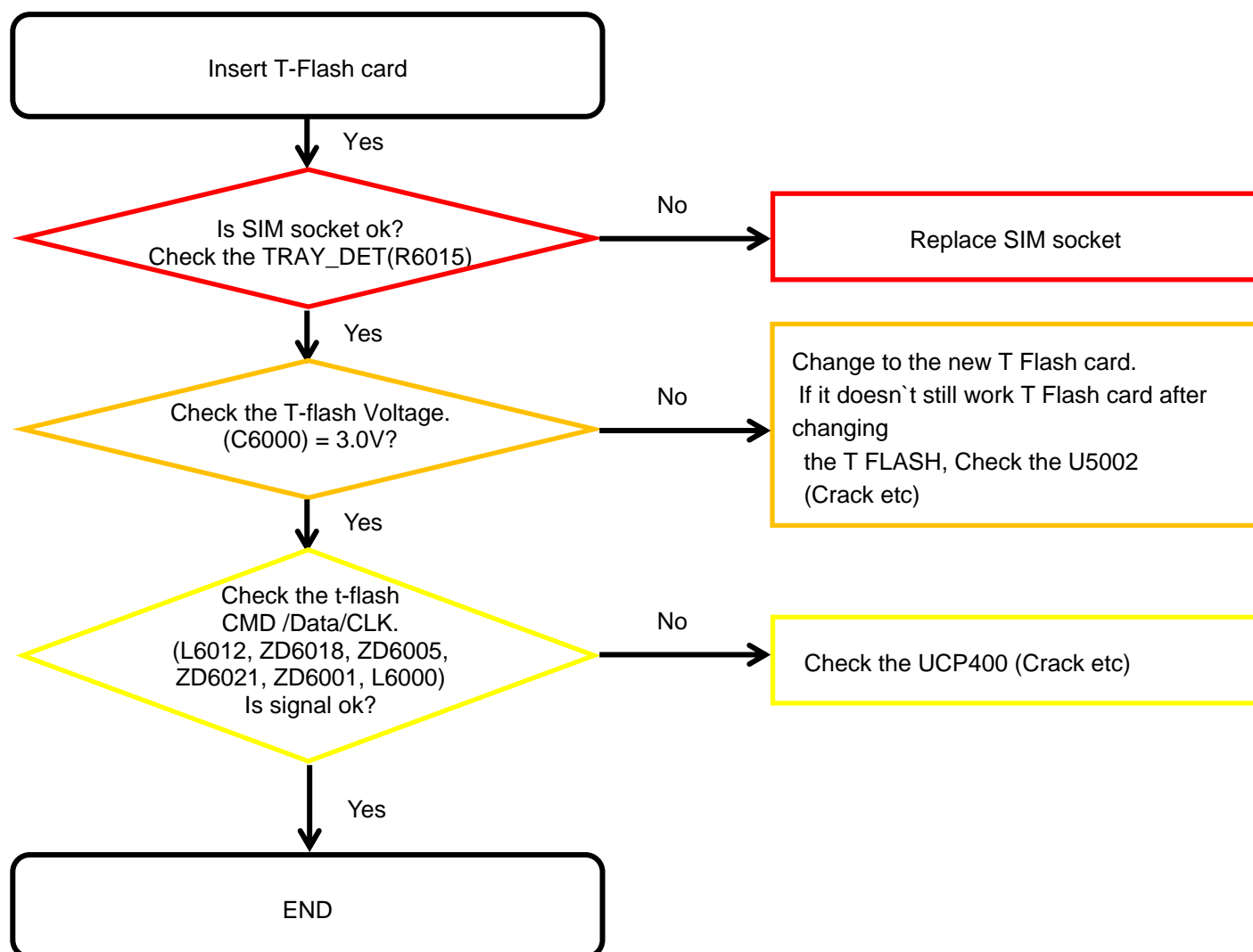
8. Level 3 Repair

8-4-4. SIM Part



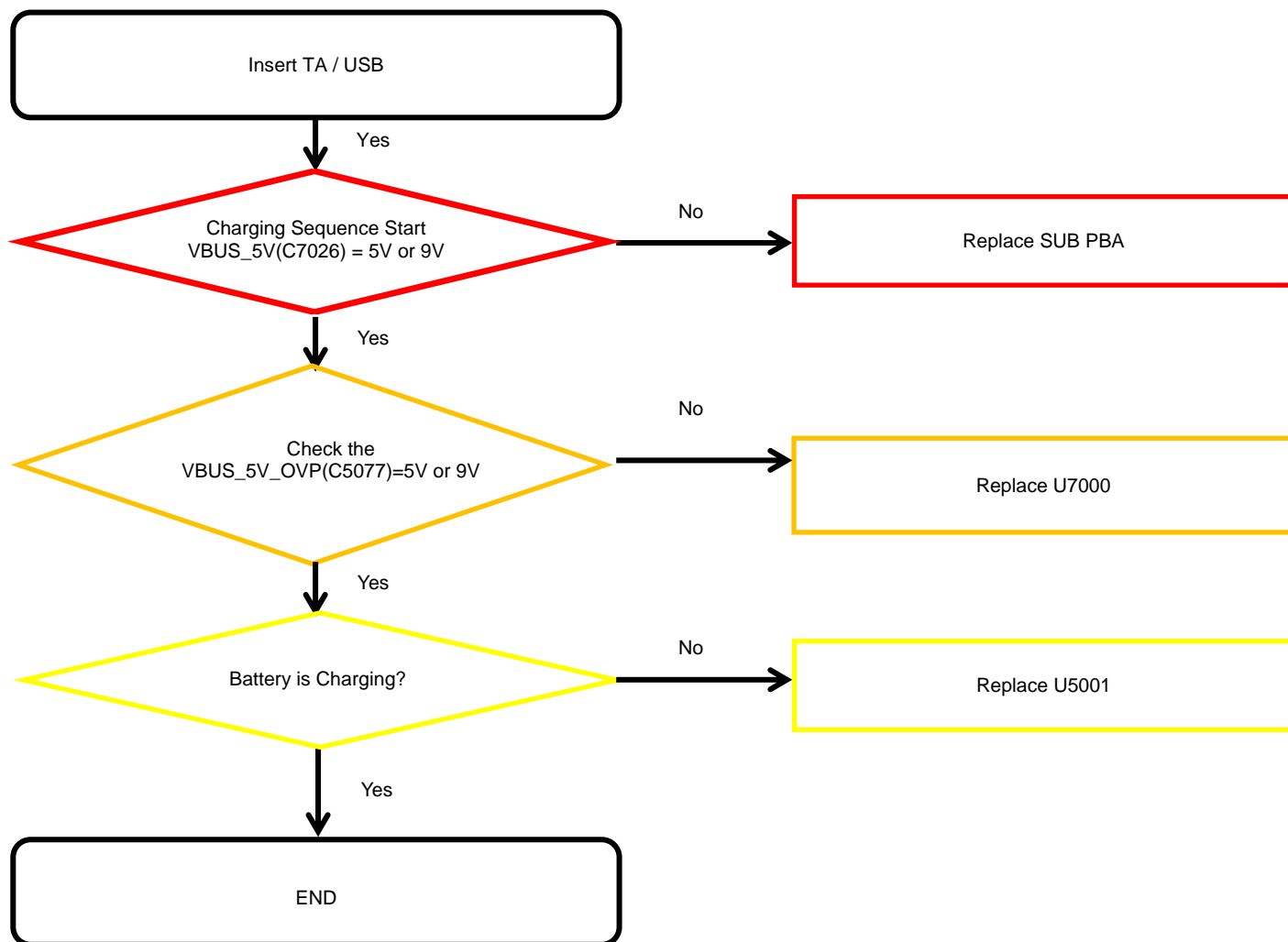
8. Level 3 Repair

8-4-5. T-Flash Part



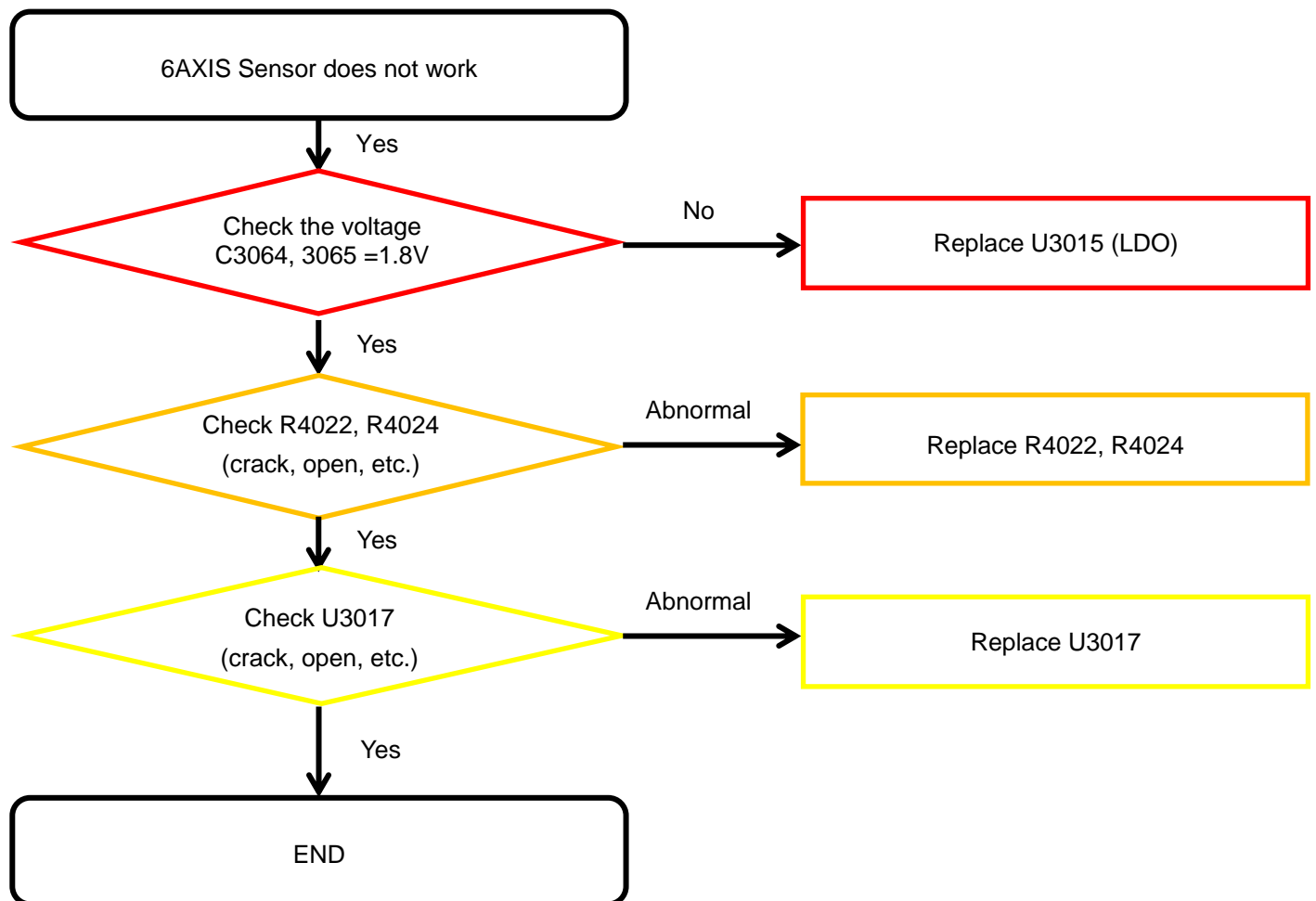
8. Level 3 Repair

8-4-6. Cable Charging Part



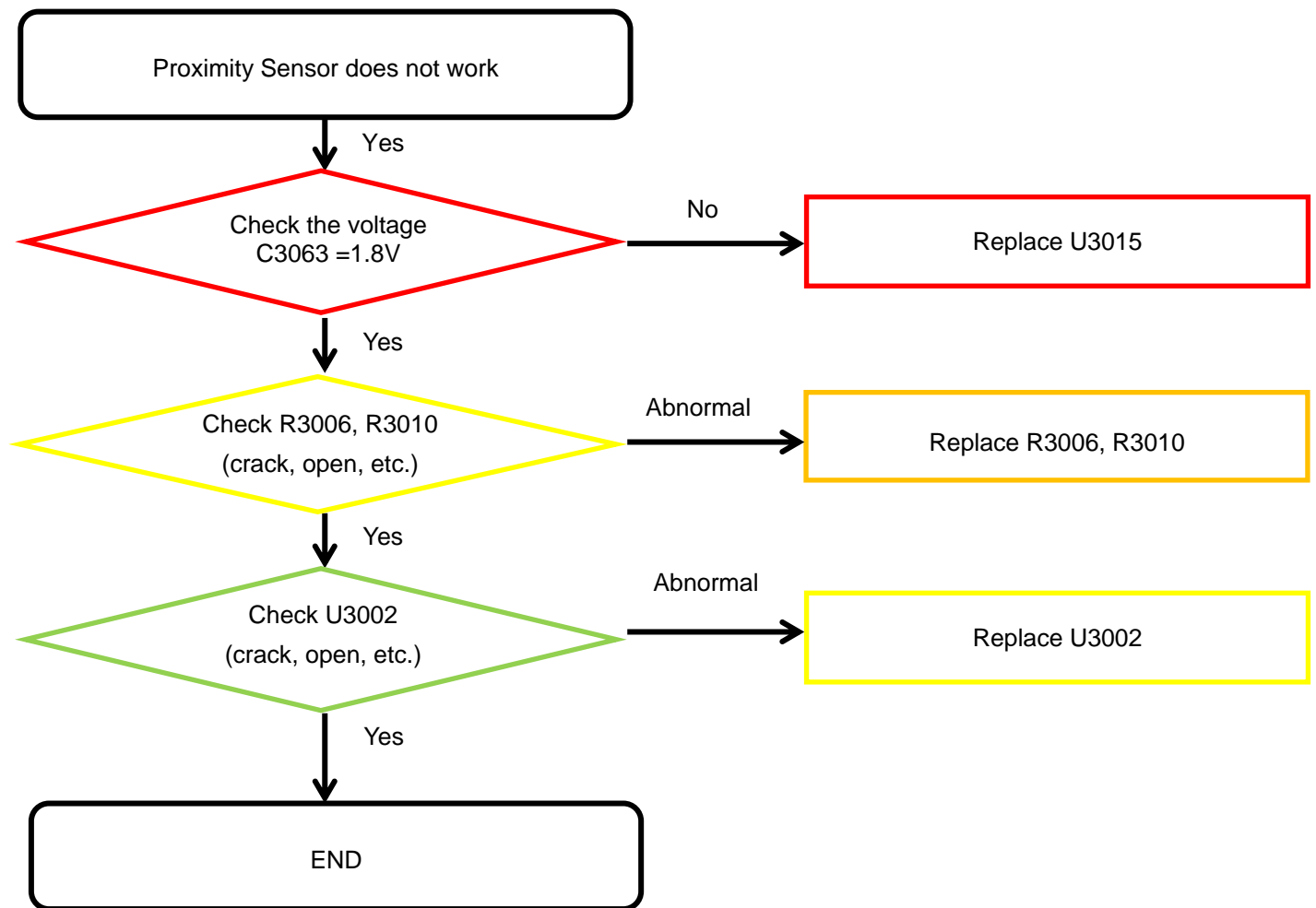
8. Level 3 Repair

8-4-7-1. 6AXIS (Accelerator+Gyro) Sensor



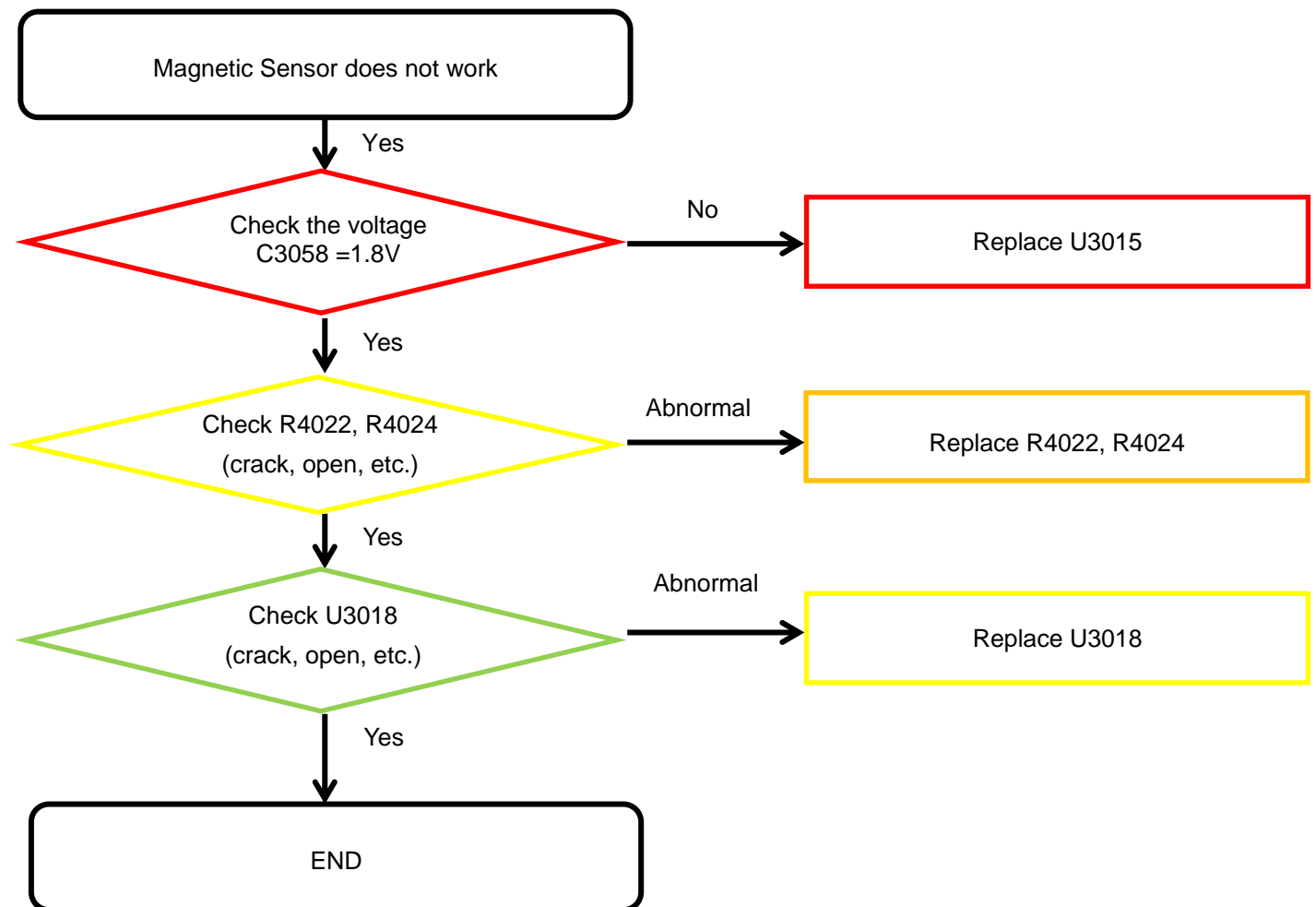
8. Level 3 Repair

8-4-7-2. Proximity sensor



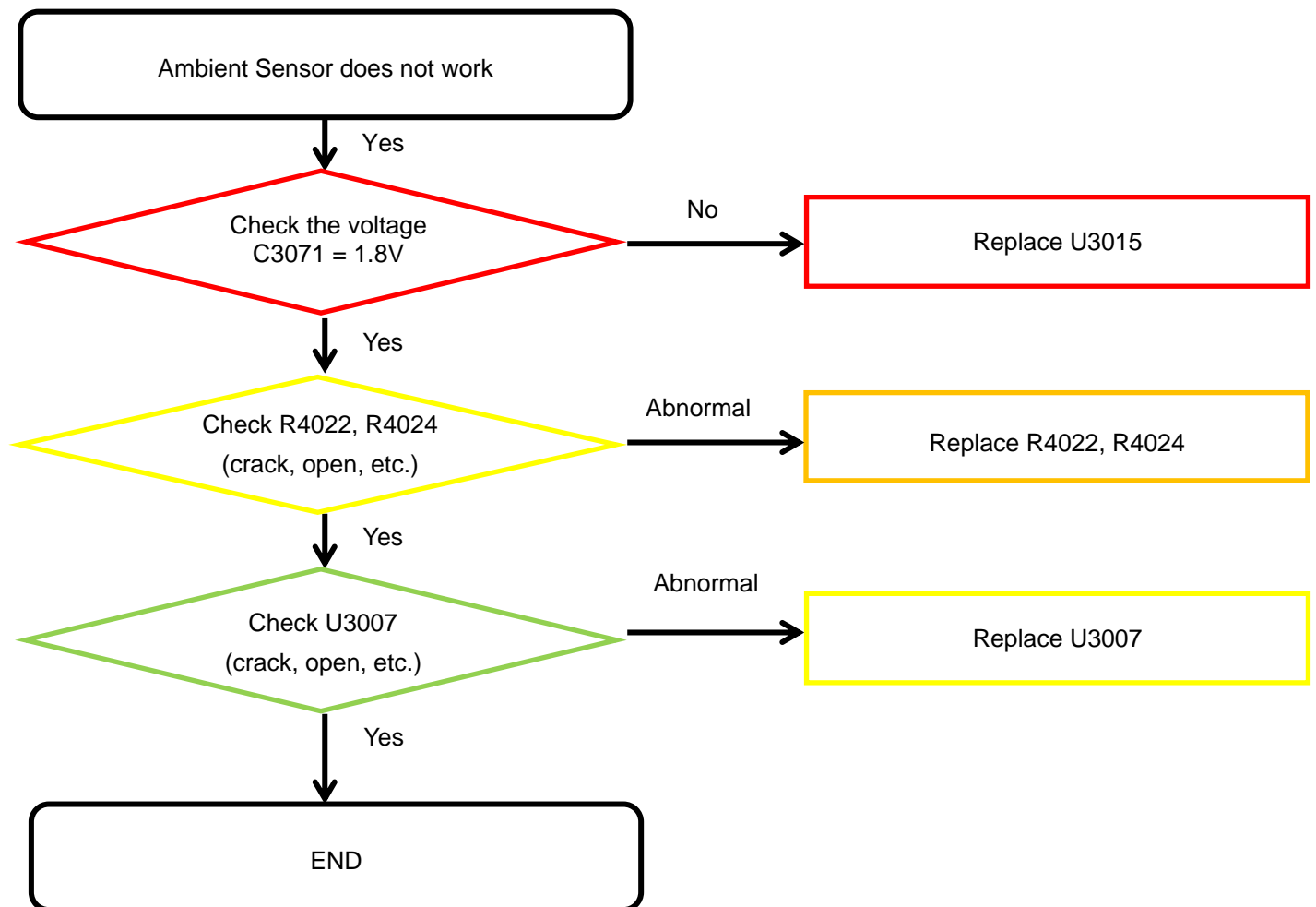
8. Level 3 Repair

8-4-7-3. Magnetic sensor



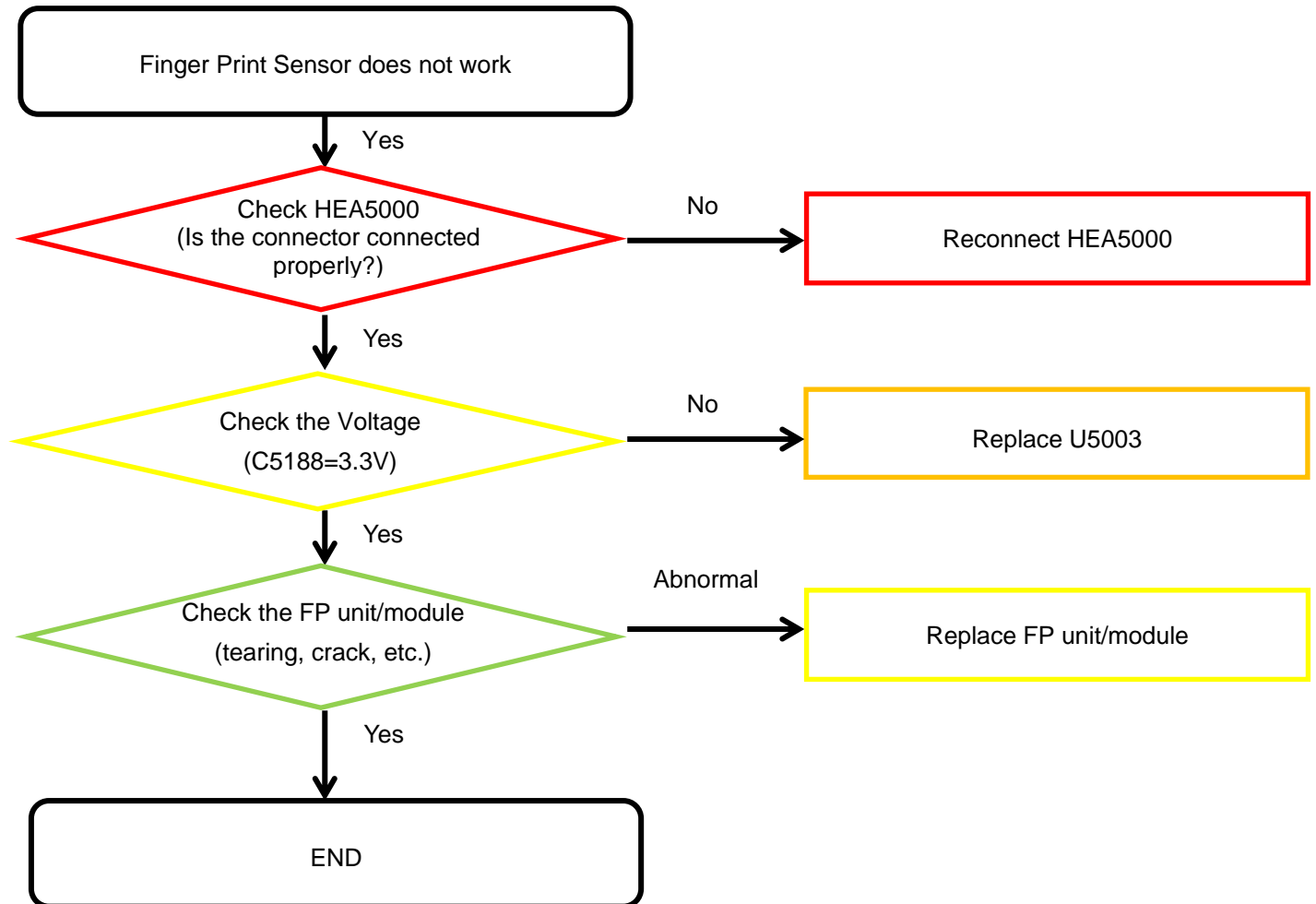
8. Level 3 Repair

8-4-7-4. Ambient sensor(RGB sensor)



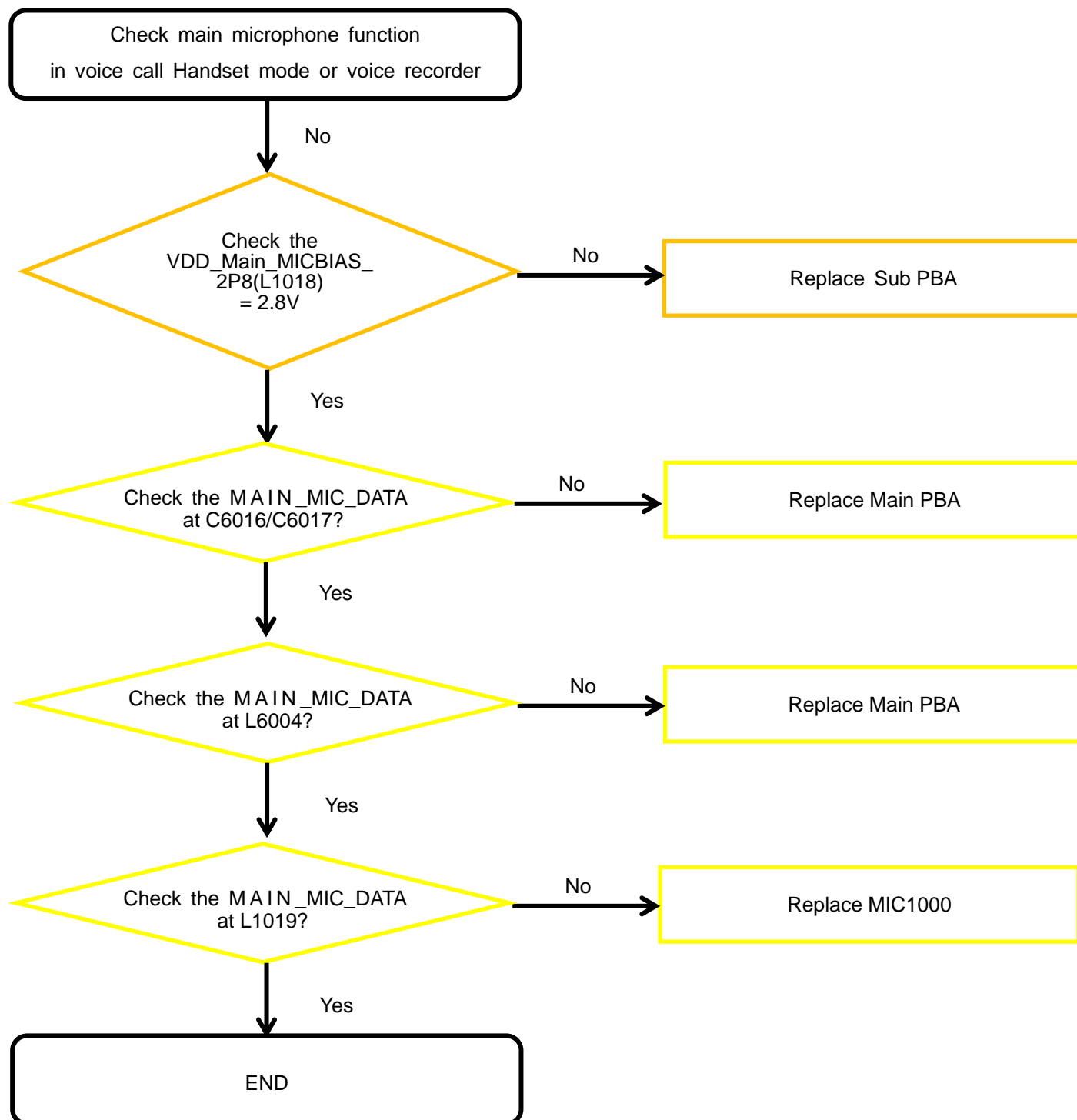
8. Level 3 Repair

8-4-7-5. Finger Print sensor



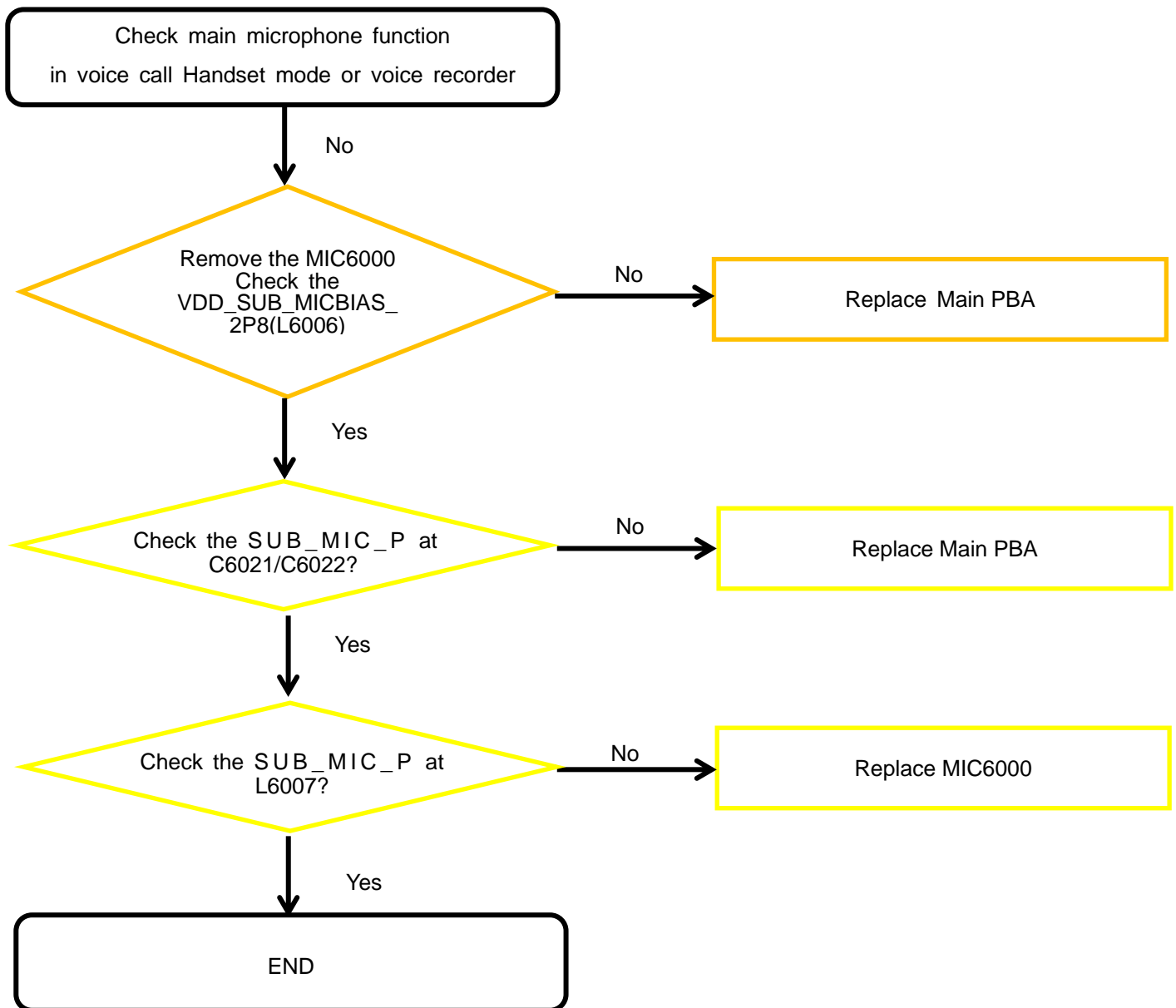
8. Level 3 Repair

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



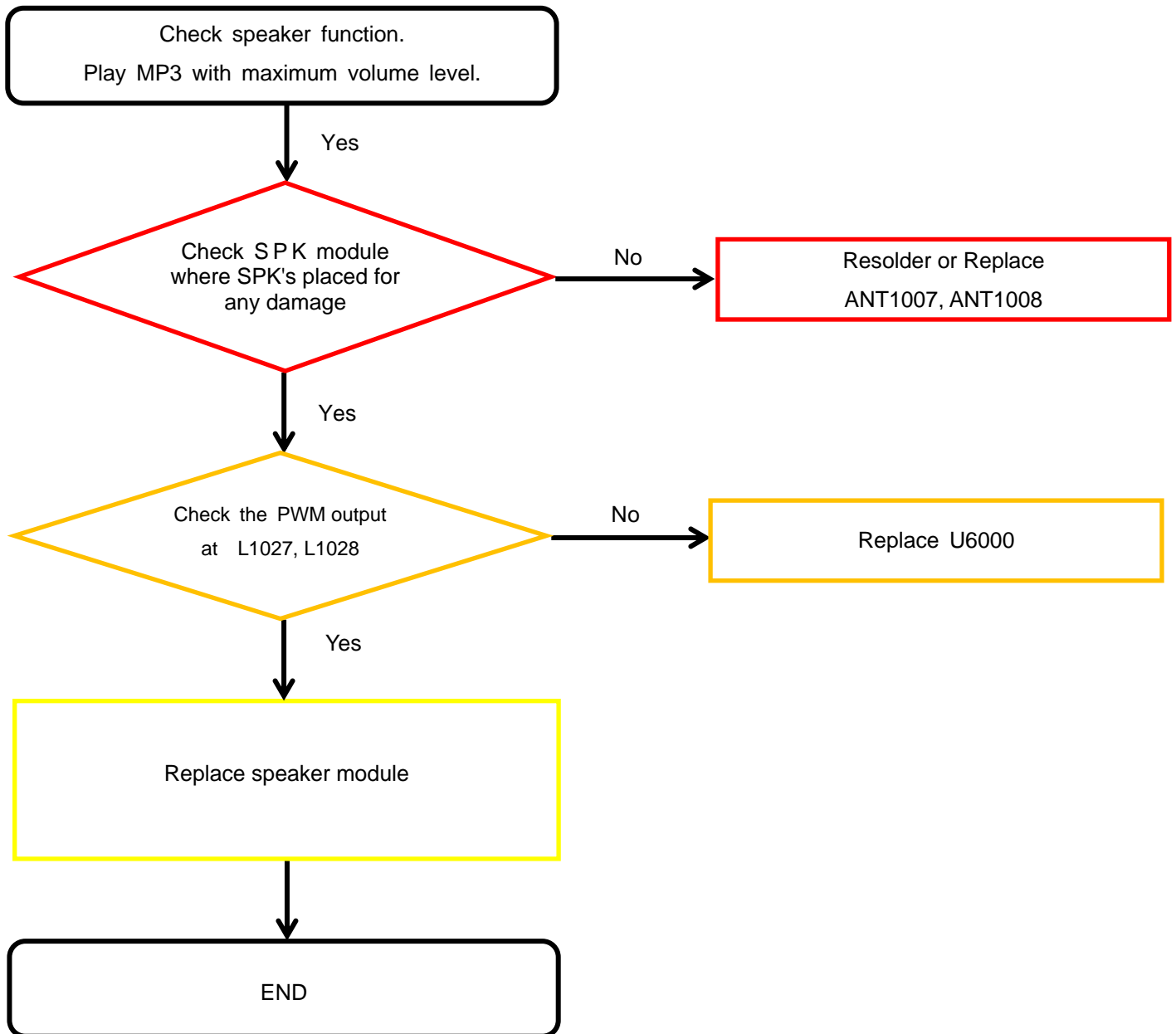
8. Level 3 Repair

8-4-8-2. Microphone Part - Sub MIC



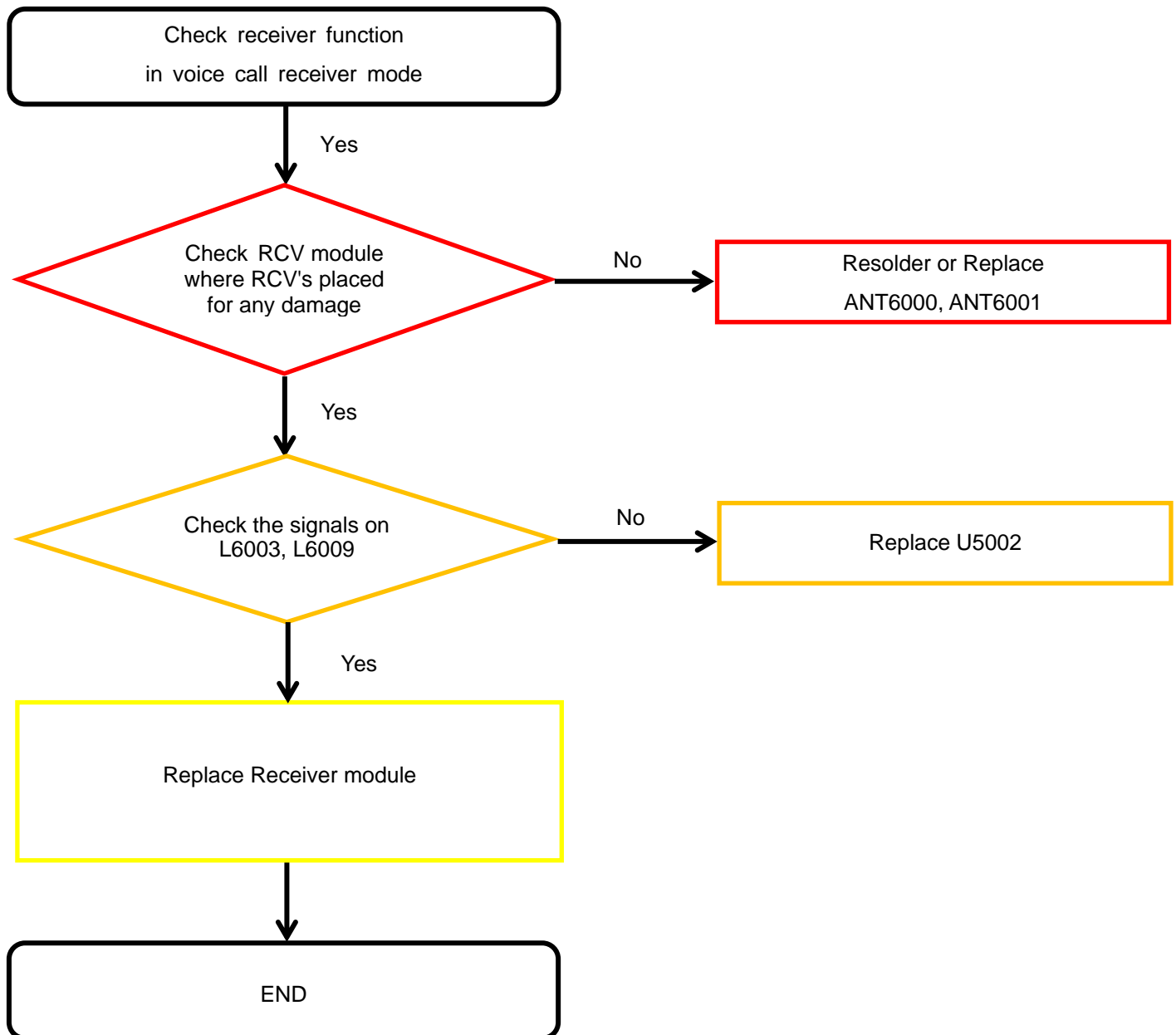
8. Level 3 Repair

8-4-9. Speaker Part



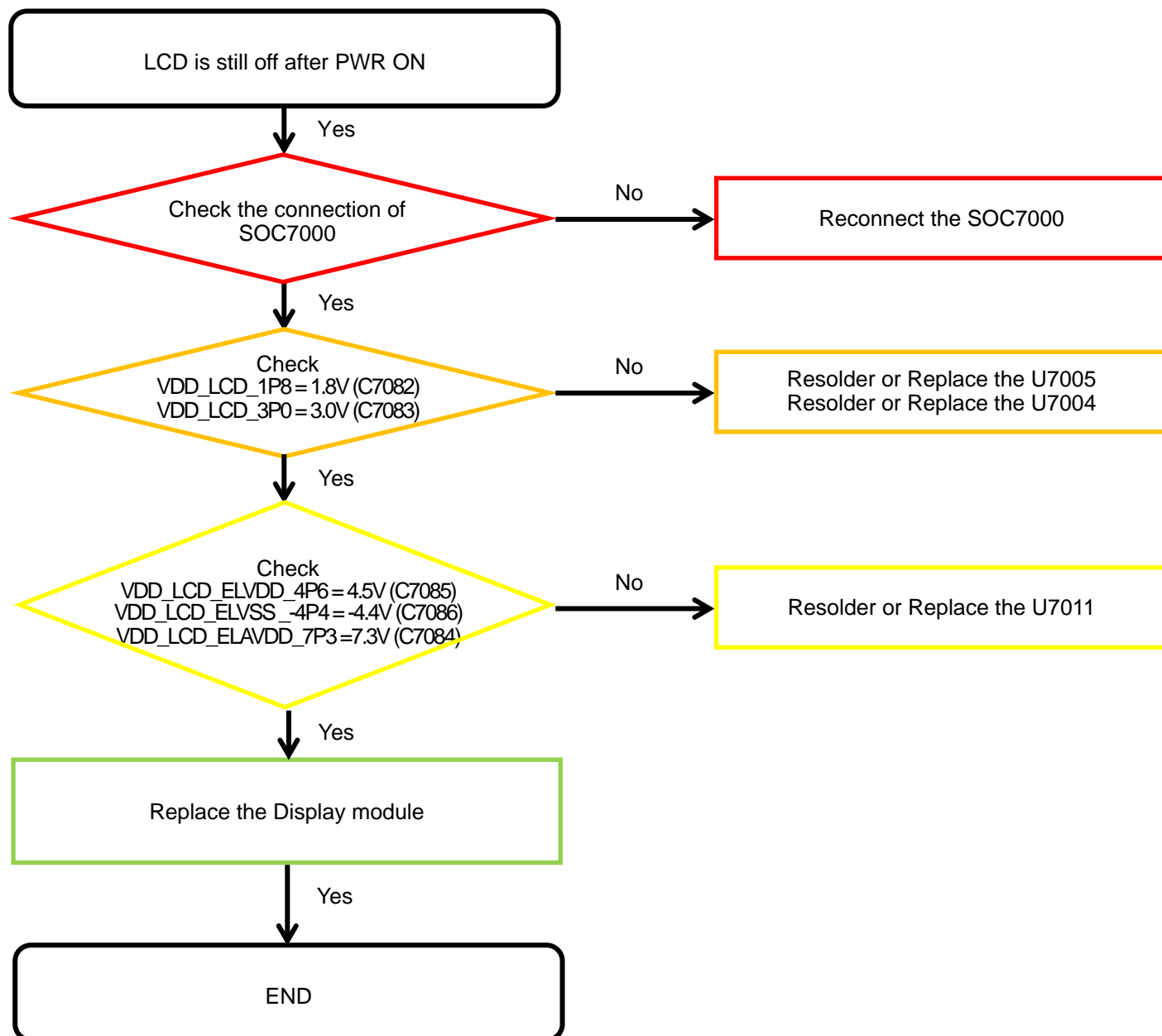
8. Level 3 Repair

8-4-10. Receiver Part



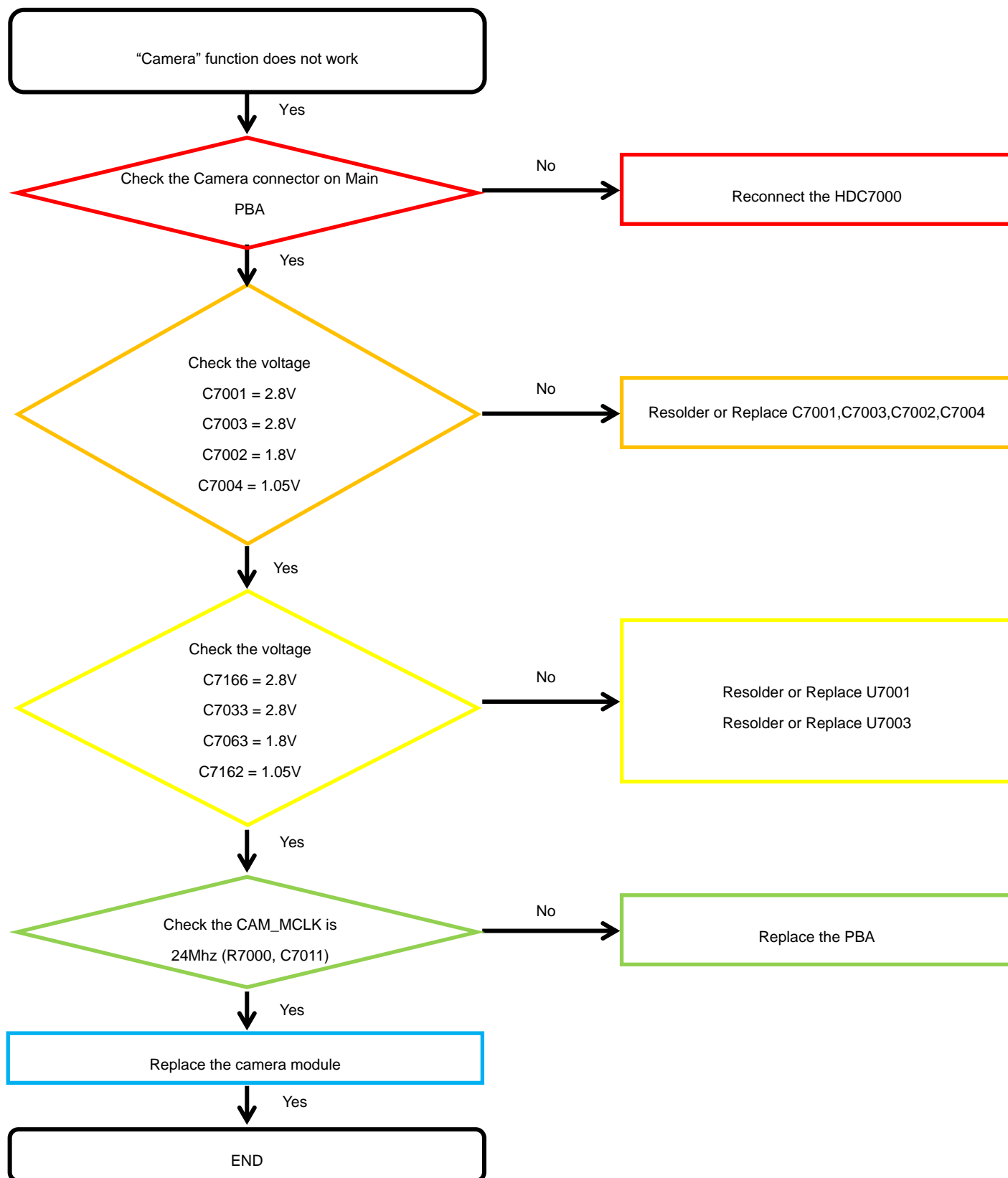
8. Level 3 Repair

8-4-11. Display



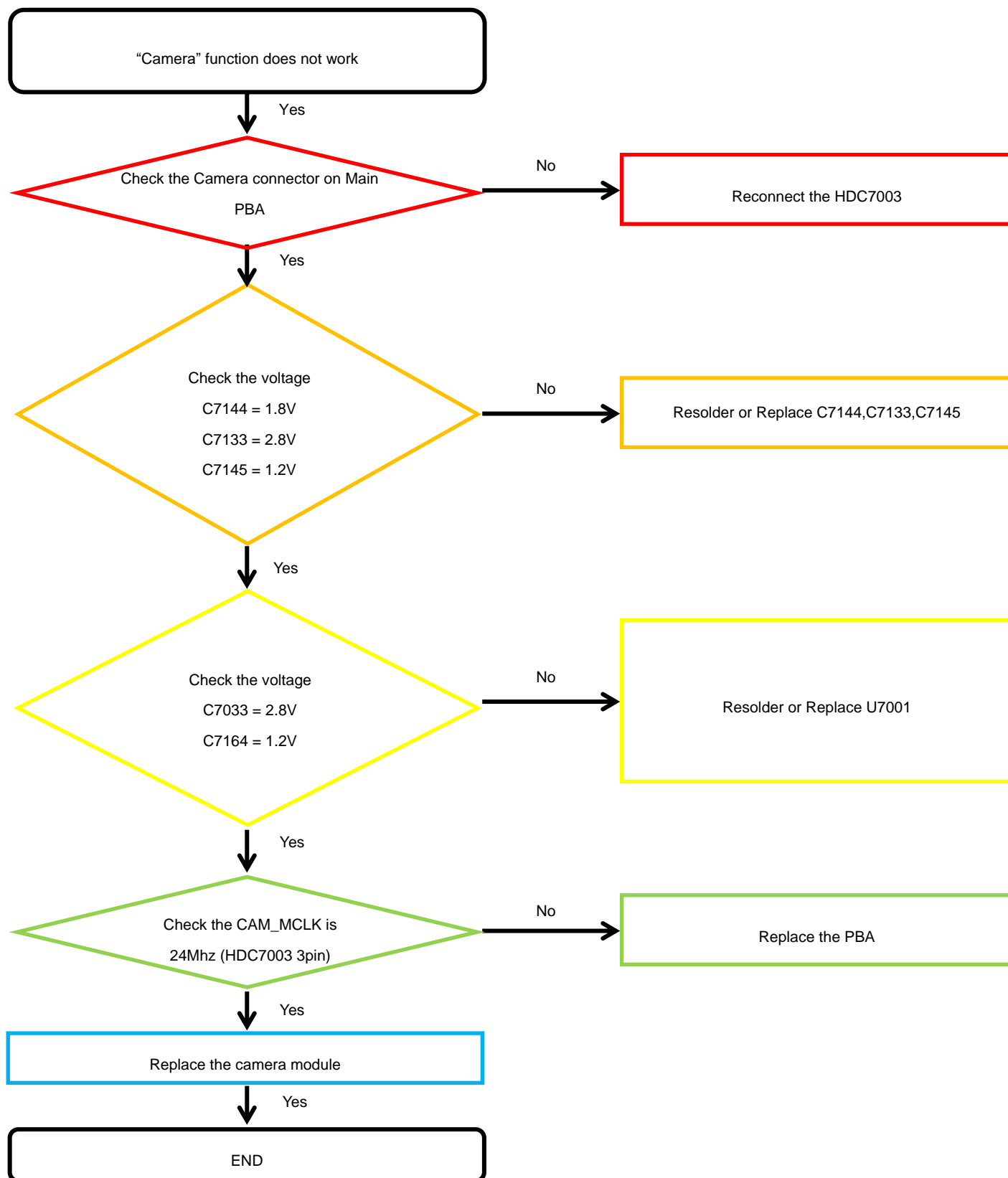
8. Level 3 Repair

8-4-12-1. 16M AF Rear CAMERA



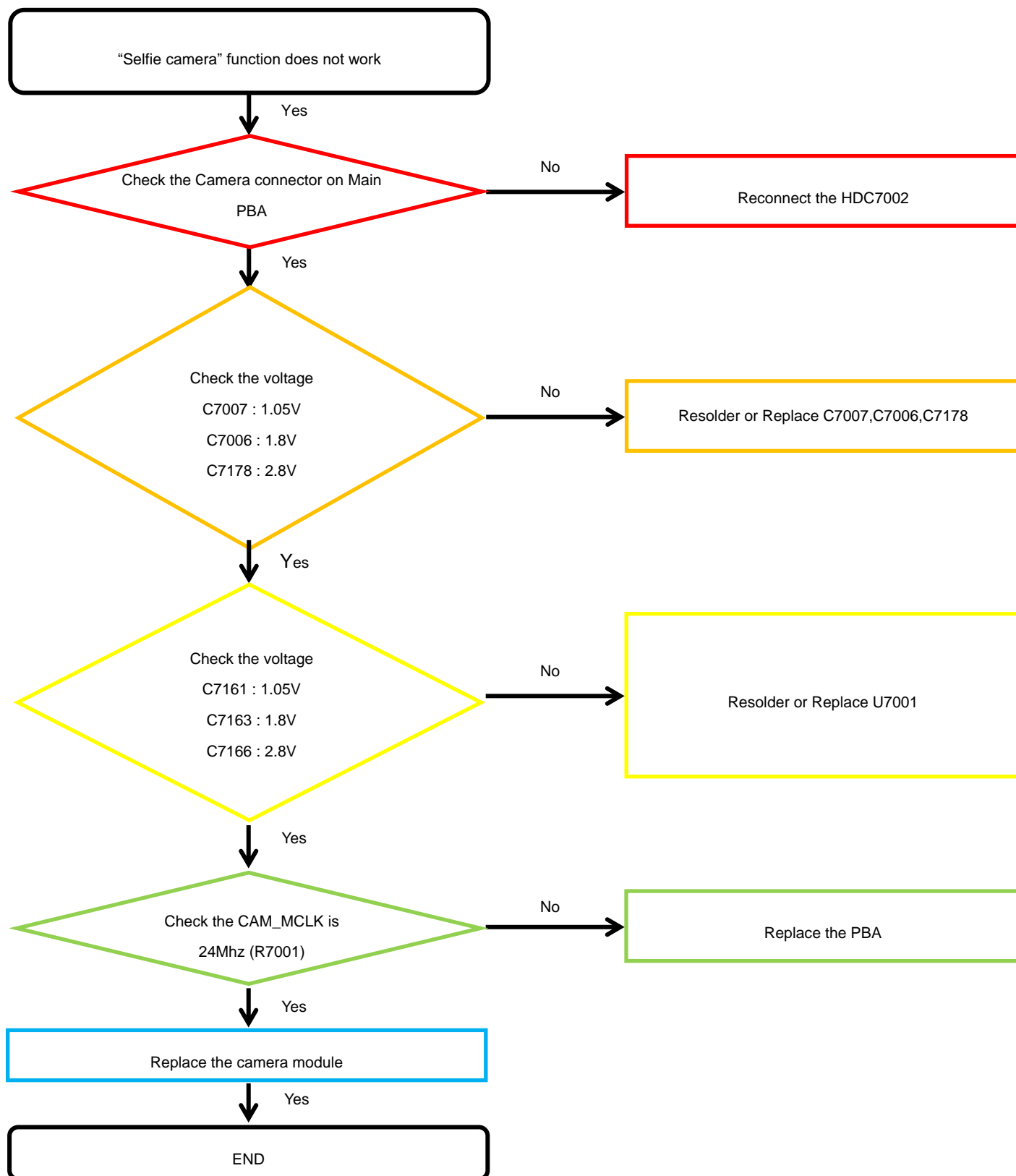
8. Level 3 Repair

8-4-12-2. 5M FF Rear CAMERA



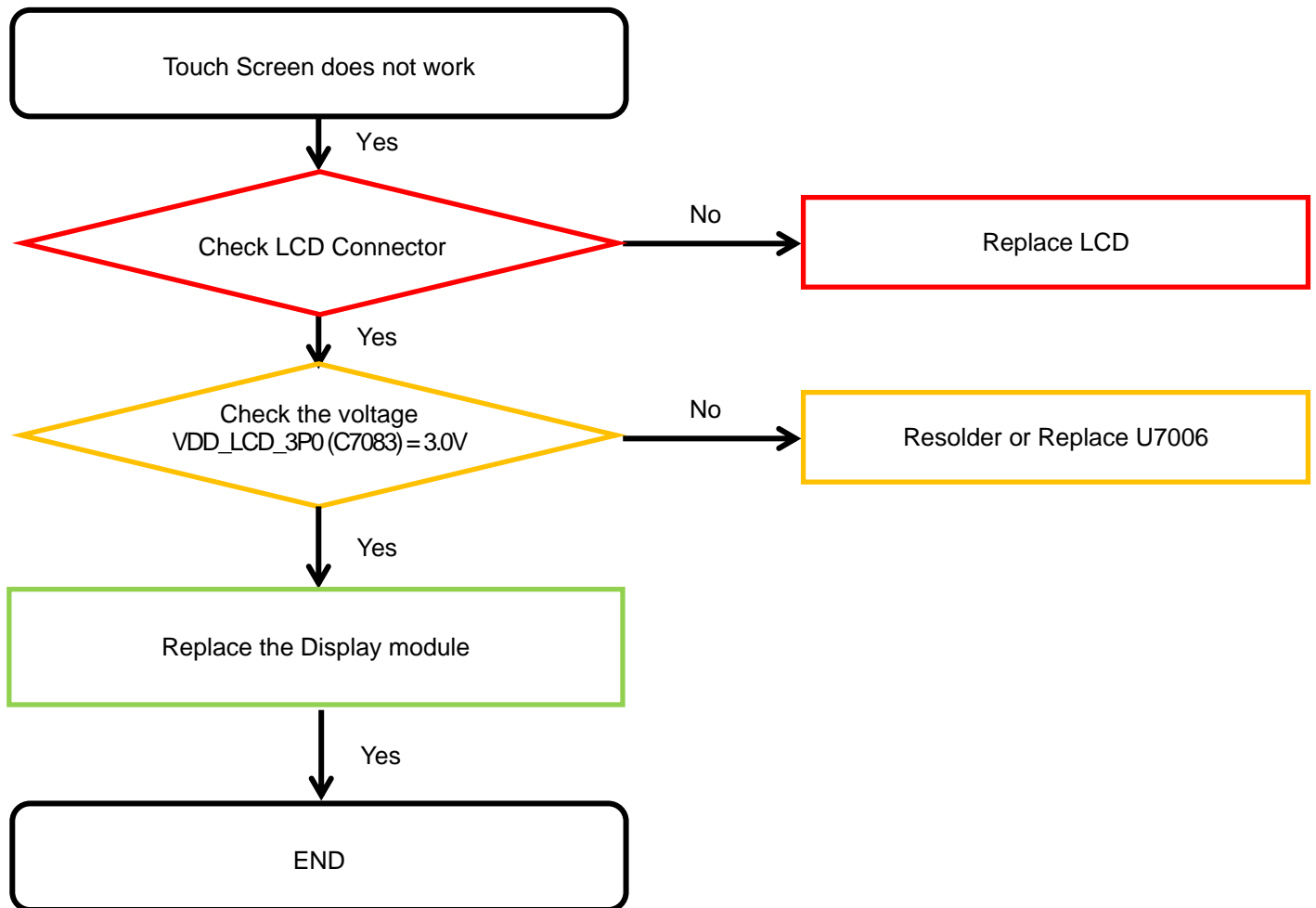
8. Level 3 Repair

8-4-13. 25M FF Front CAMERA



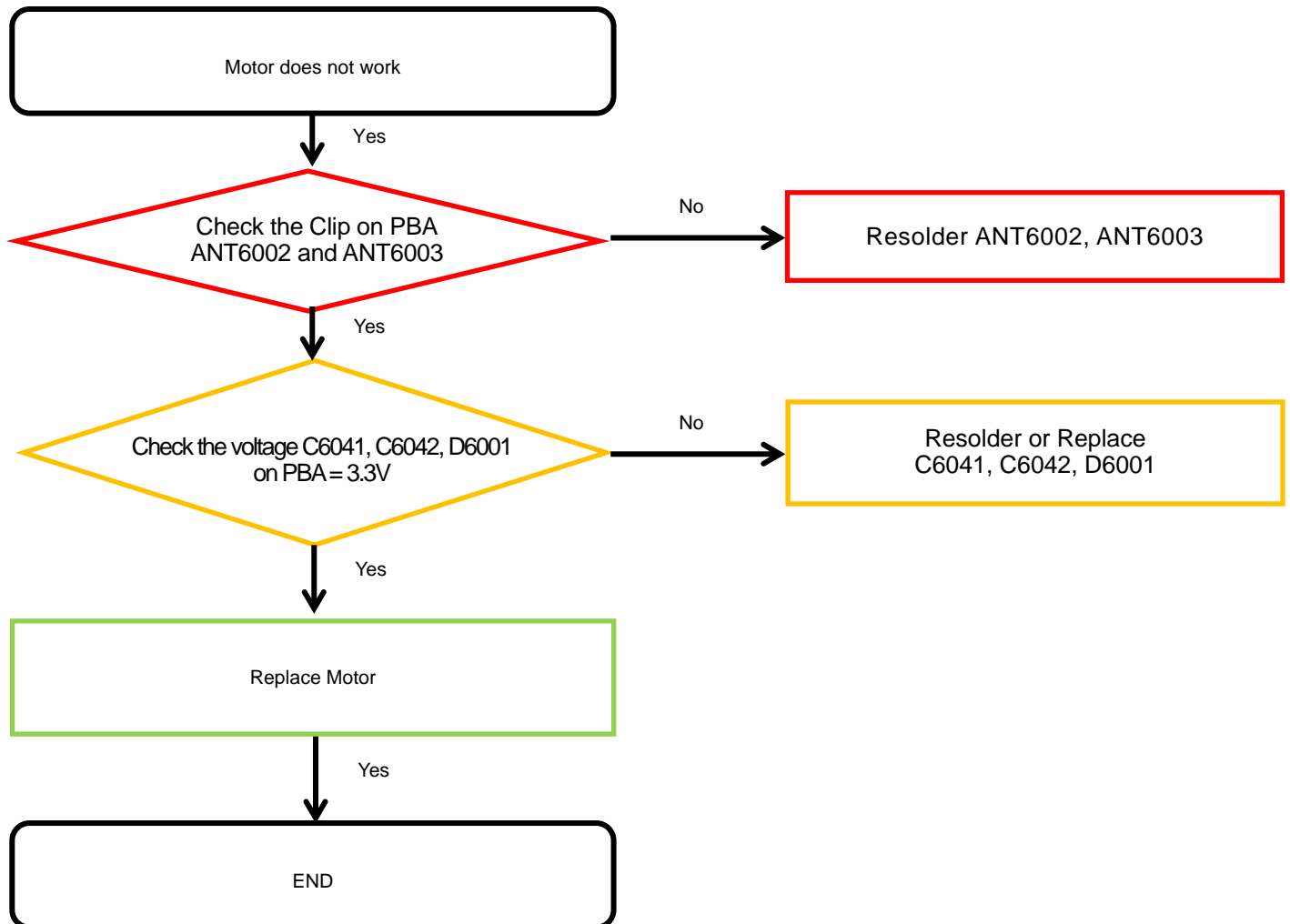
8. Level 3 Repair

8-4-14. LCD



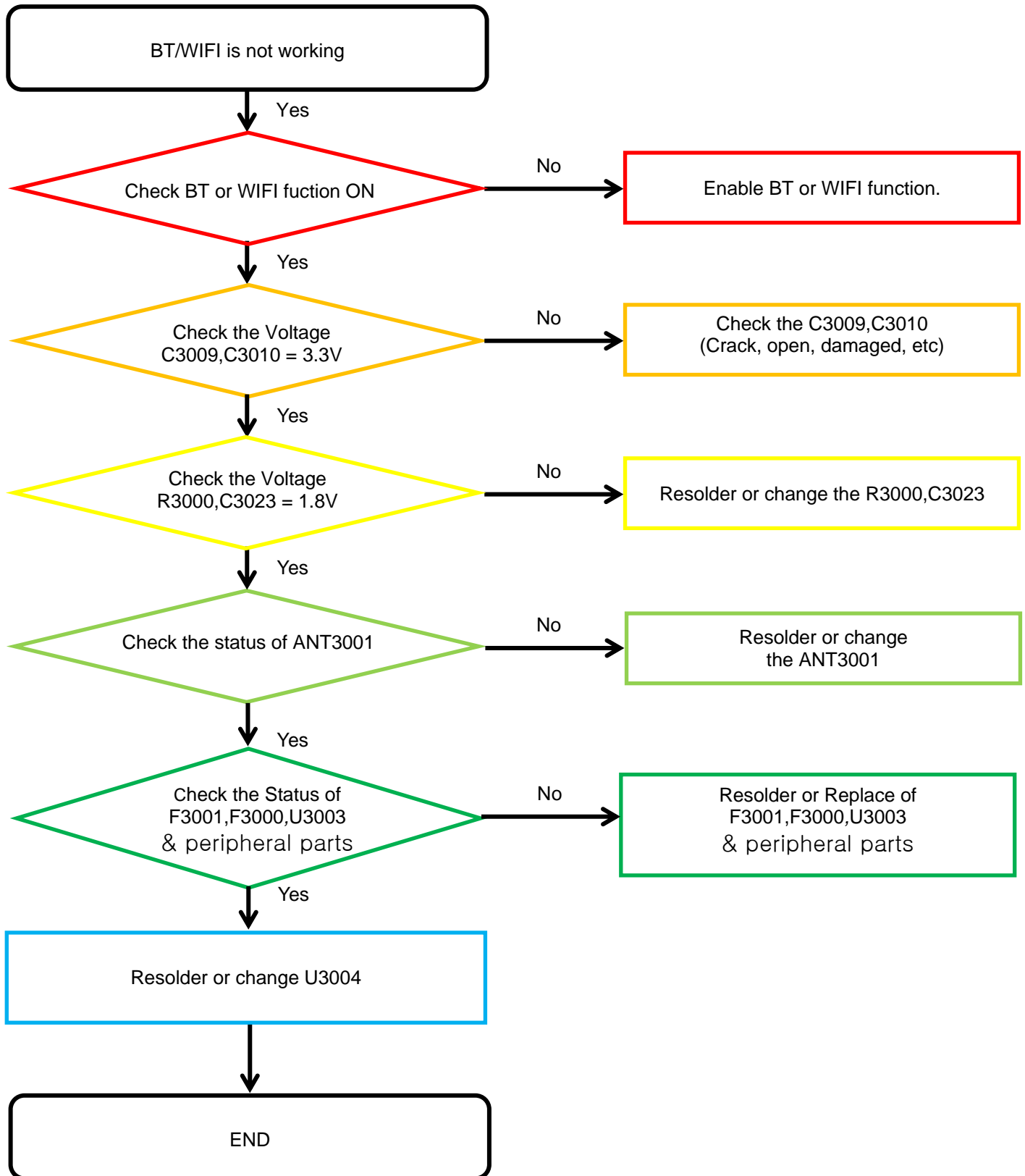
8. Level 3 Repair

8-4-15. Motor



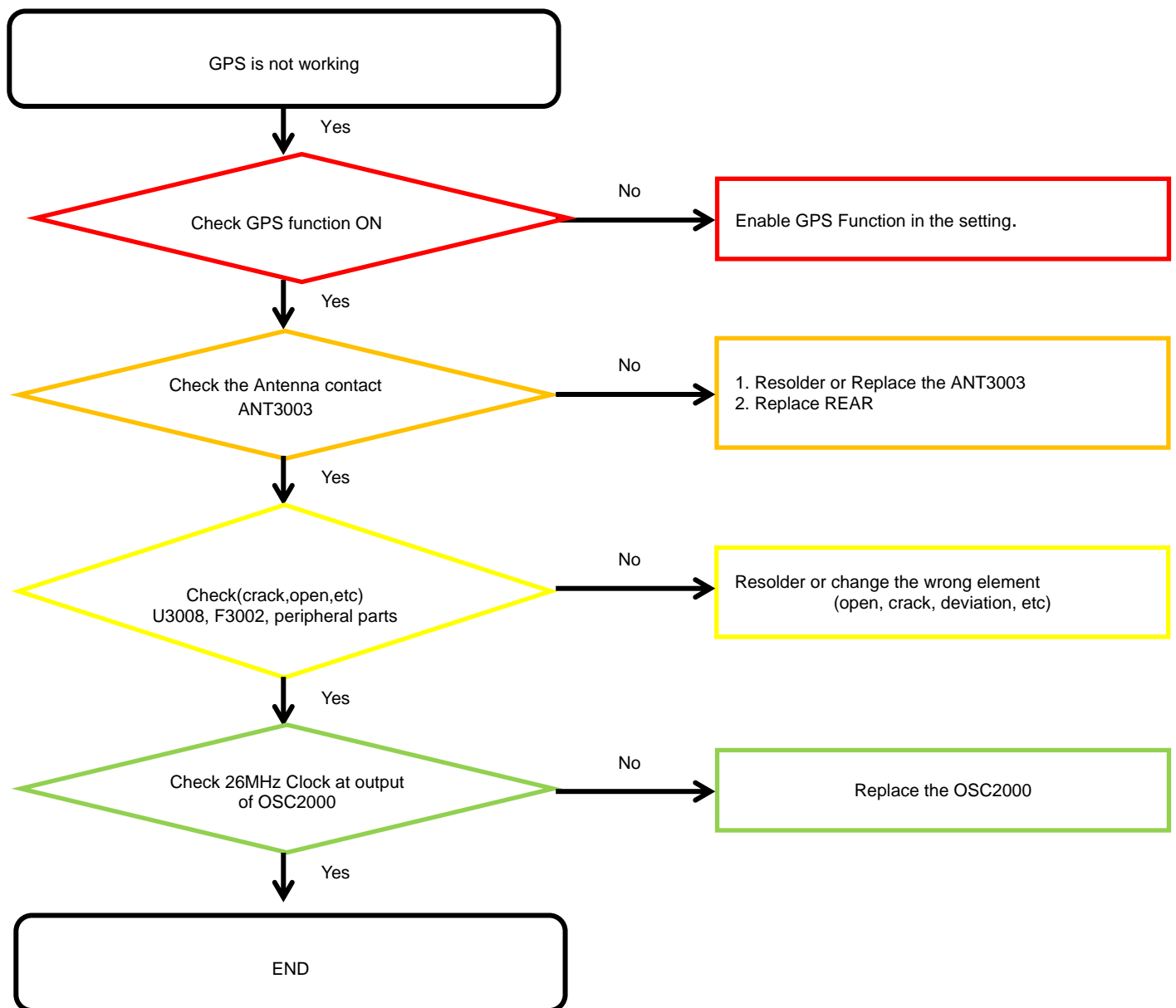
8. Level 3 Repair

8-4-16. BT/WIFI



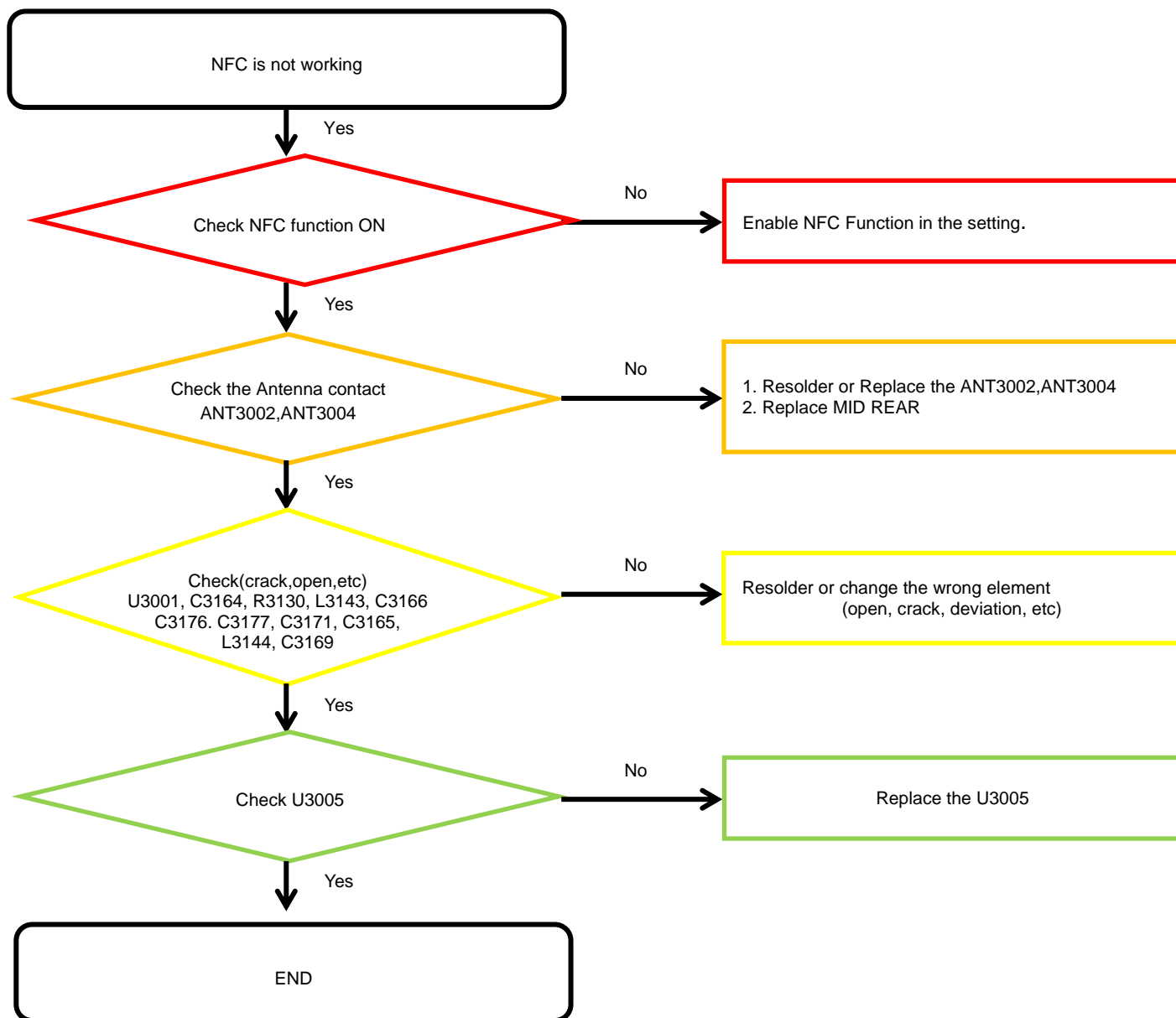
8. Level 3 Repair

8-4-17. GPS



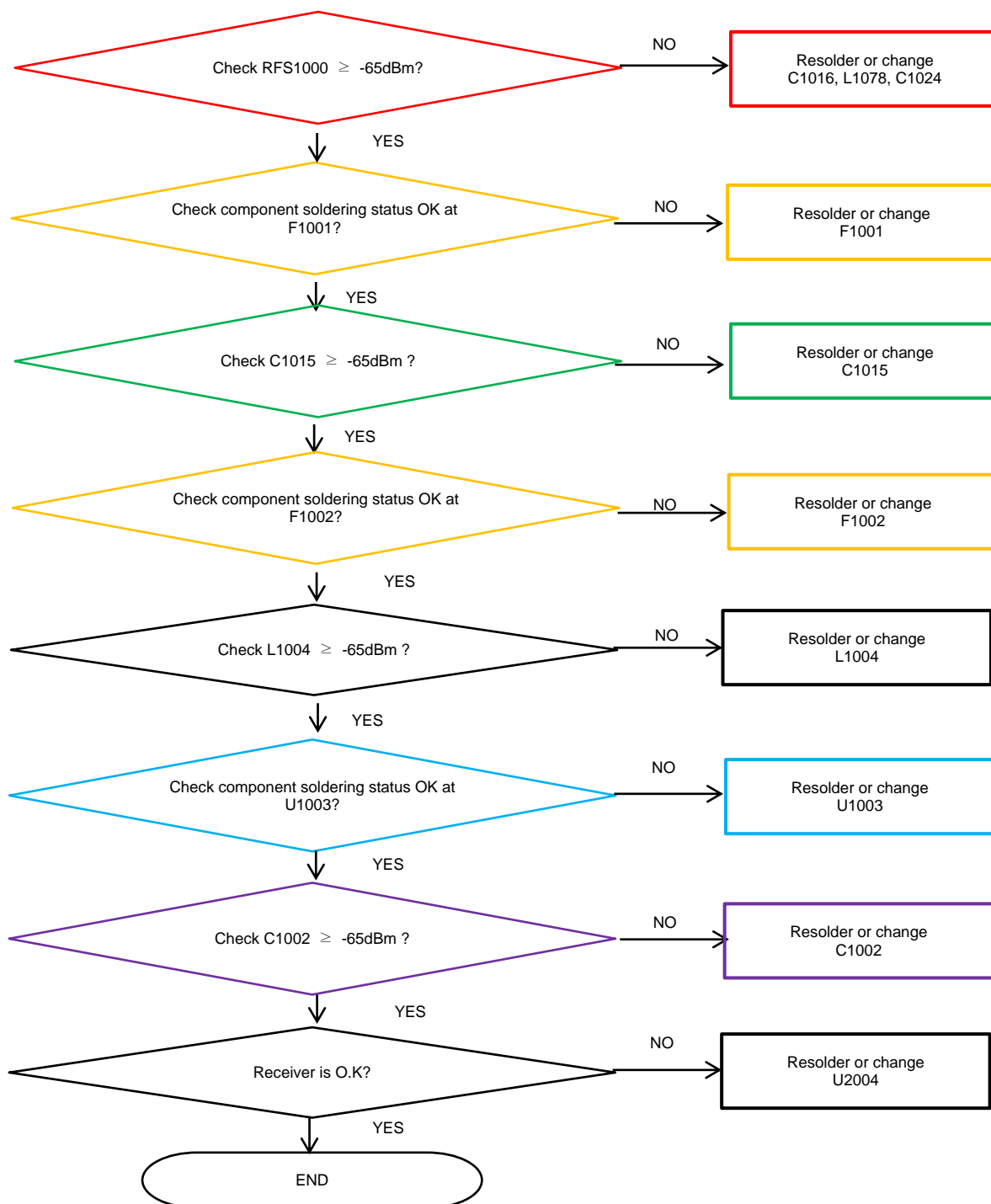
8. Level 3 Repair

8-4-18. NFC



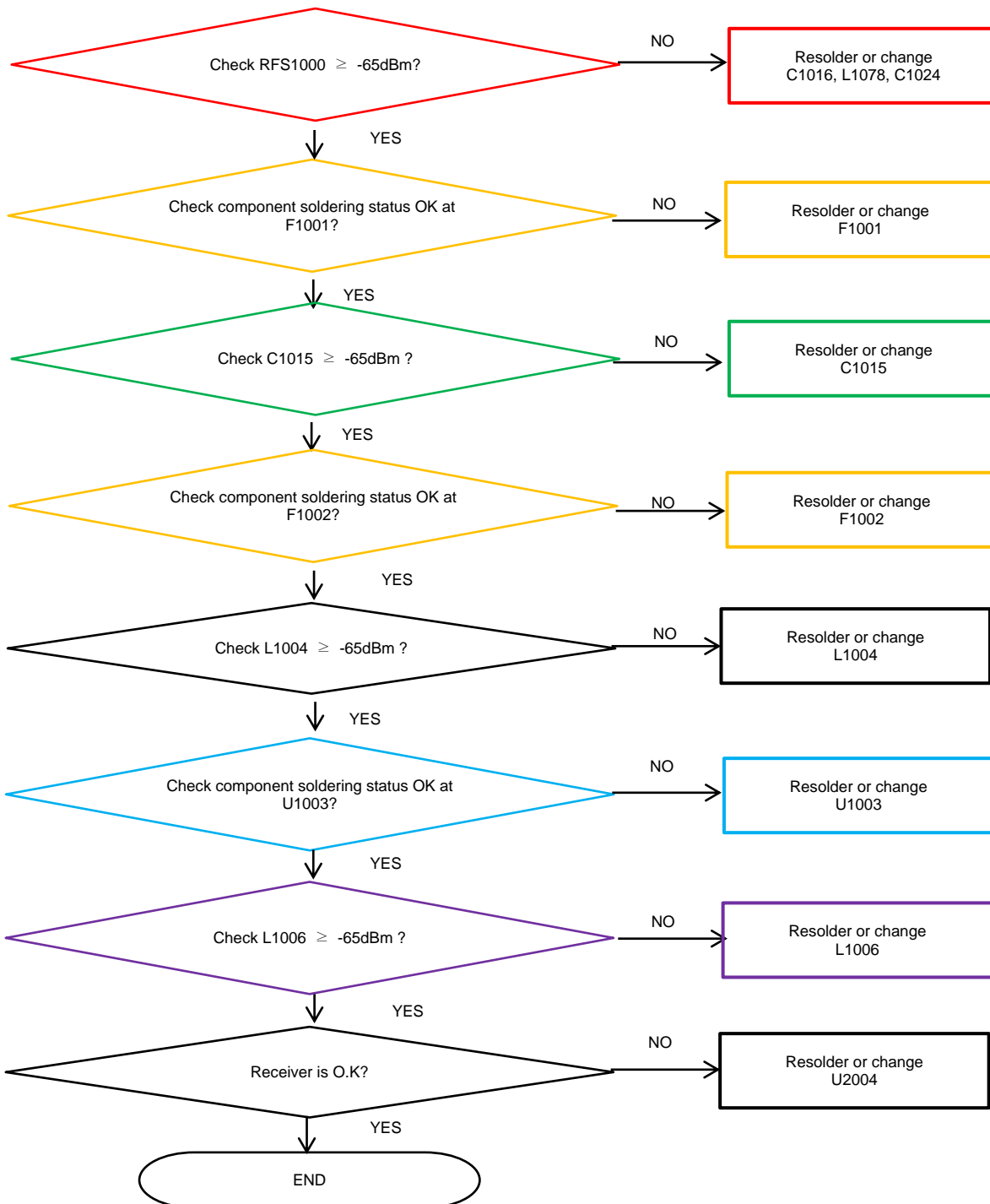
8. Level 3 Repair

8-4-20. LTE B1, WCDMA B1 Rx



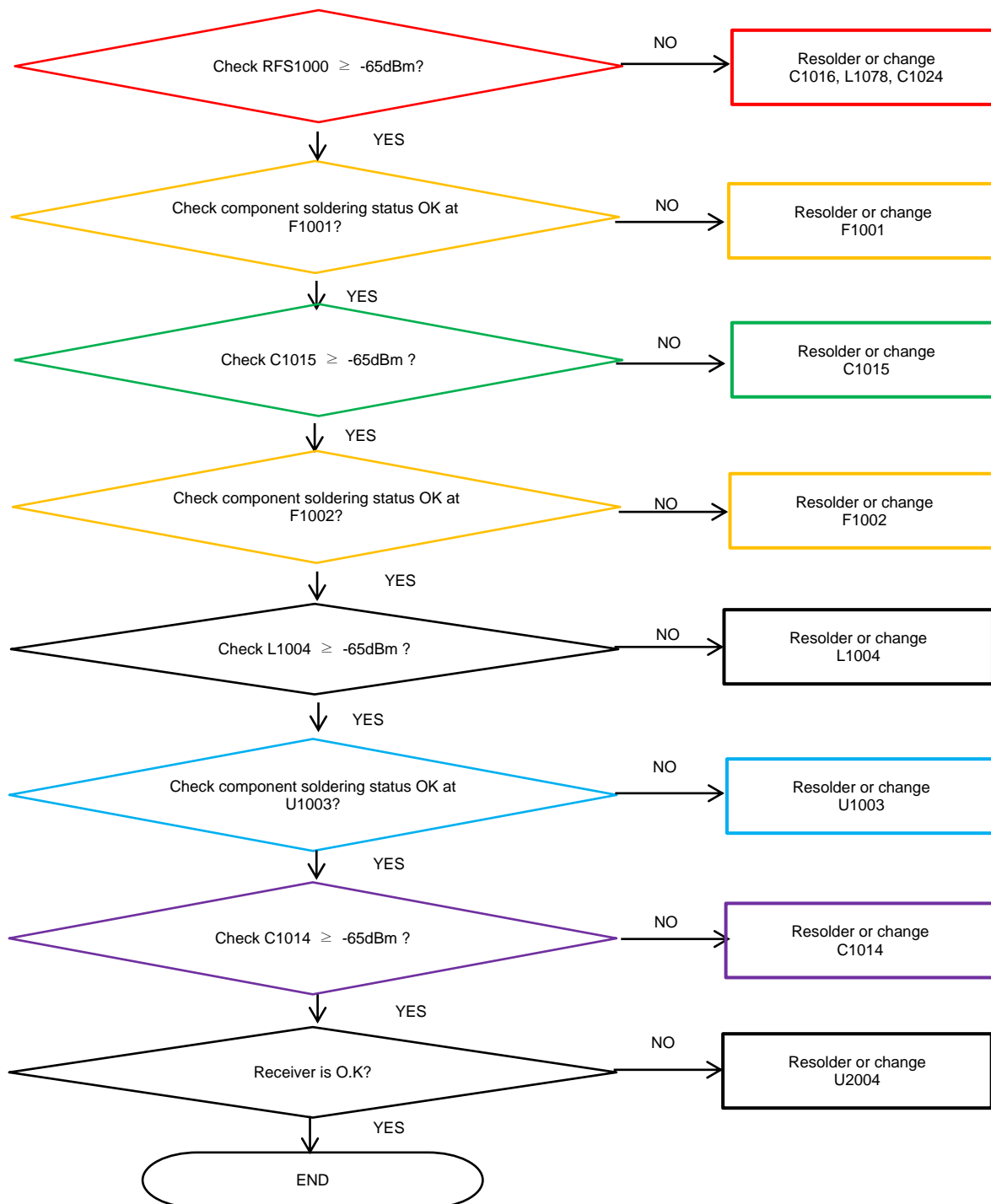
8. Level 3 Repair

8-4-21. WCDMA B2 / PCS RX, LTEB2



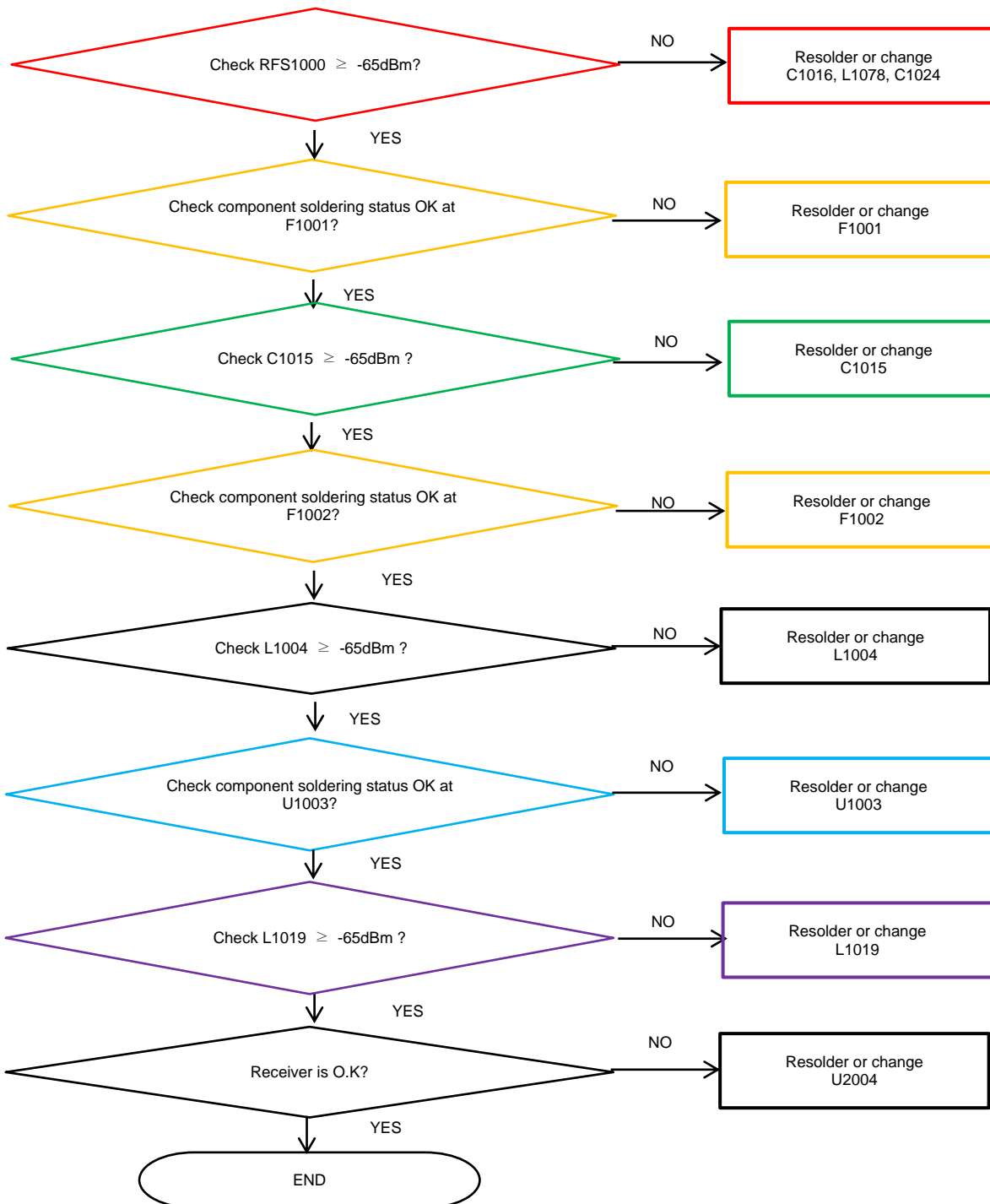
8. Level 3 Repair

8-4-22. LTE B3 / DCS RX



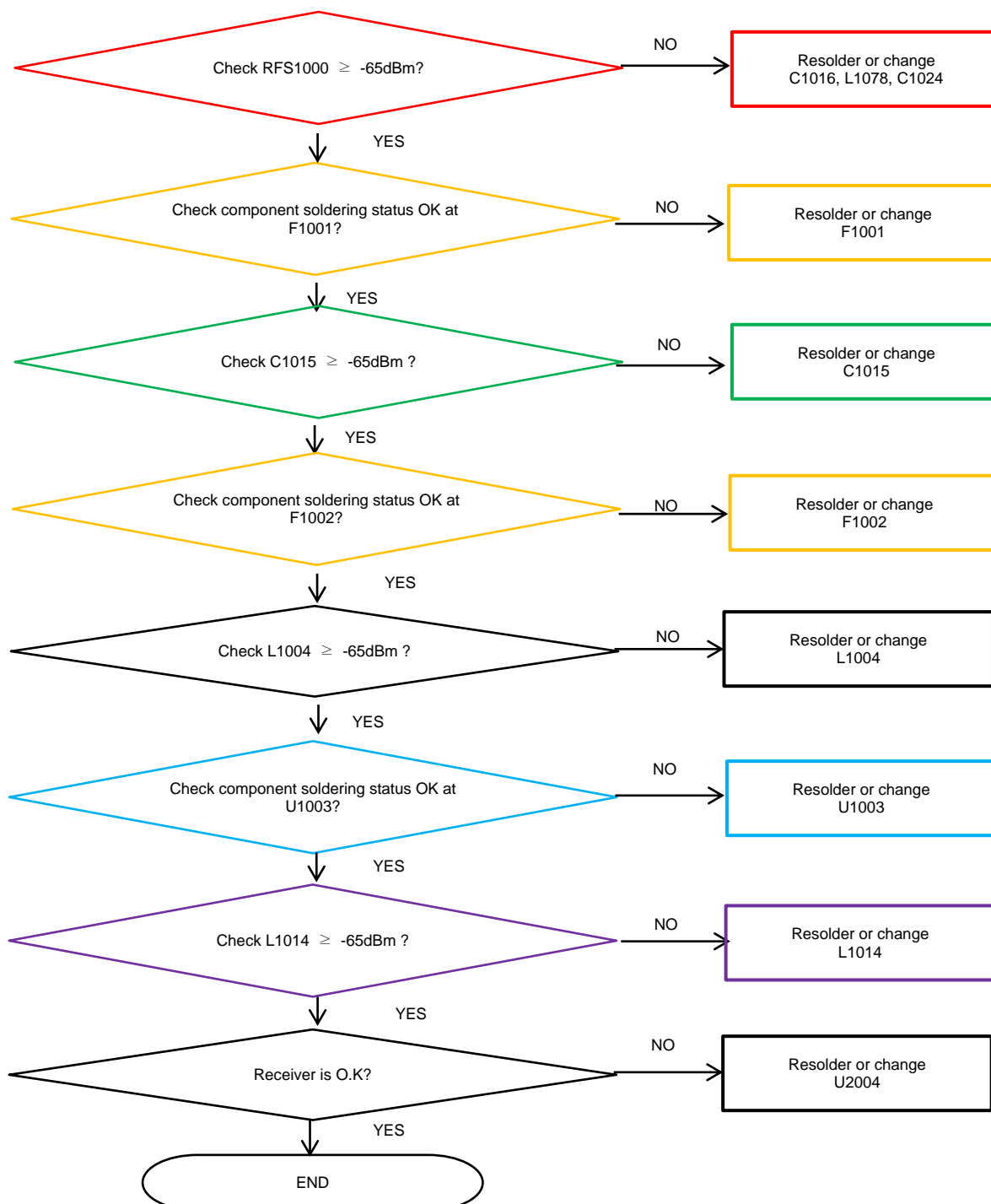
8. Level 3 Repair

8-4-24. LTE, WCDMA B5 / GSM850 RX



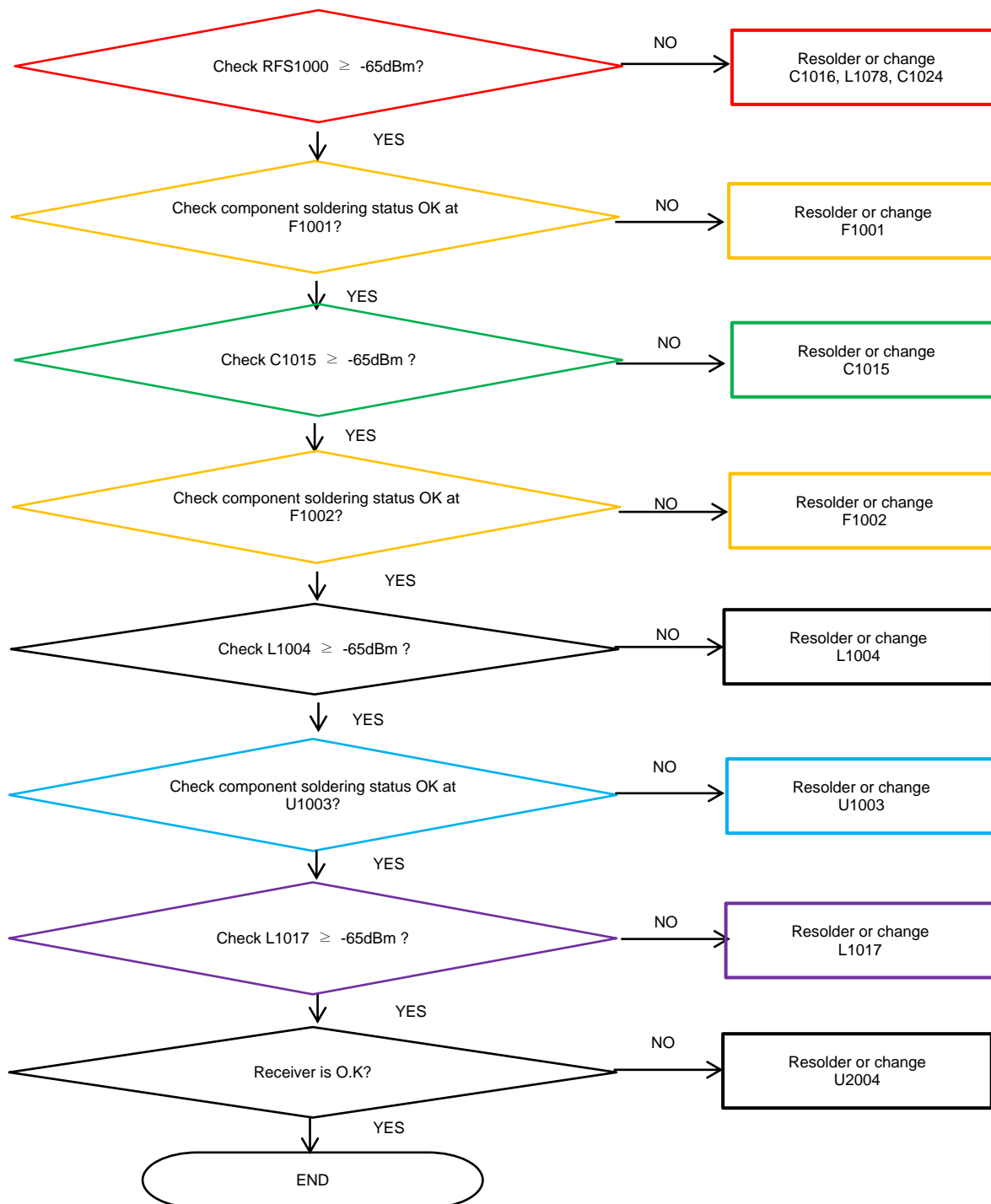
8. Level 3 Repair

8-4-25. LTE B8, WCDMA B8 / EGSM RX



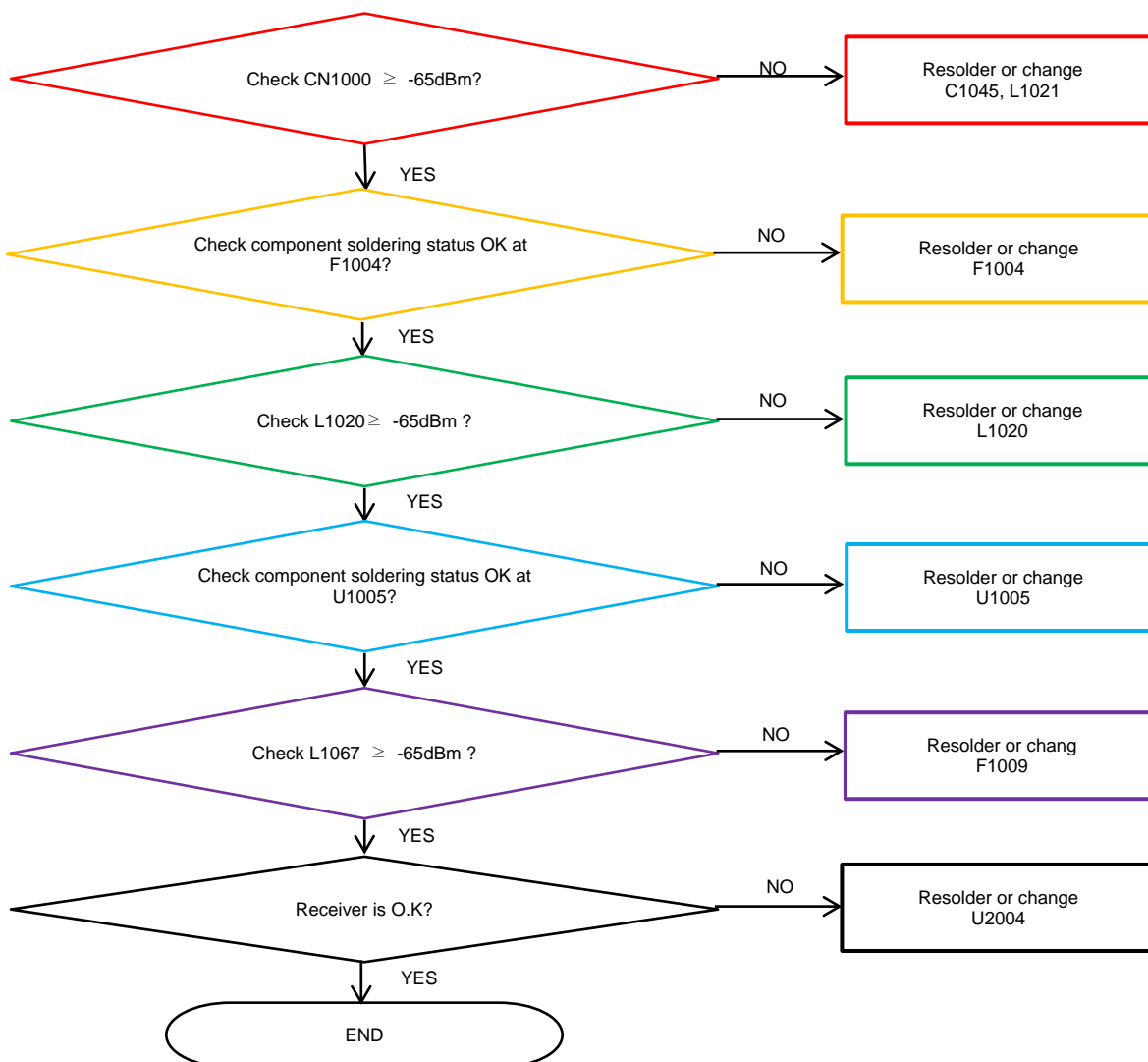
8. Level 3 Repair

8-4-26. LTE B20 RX



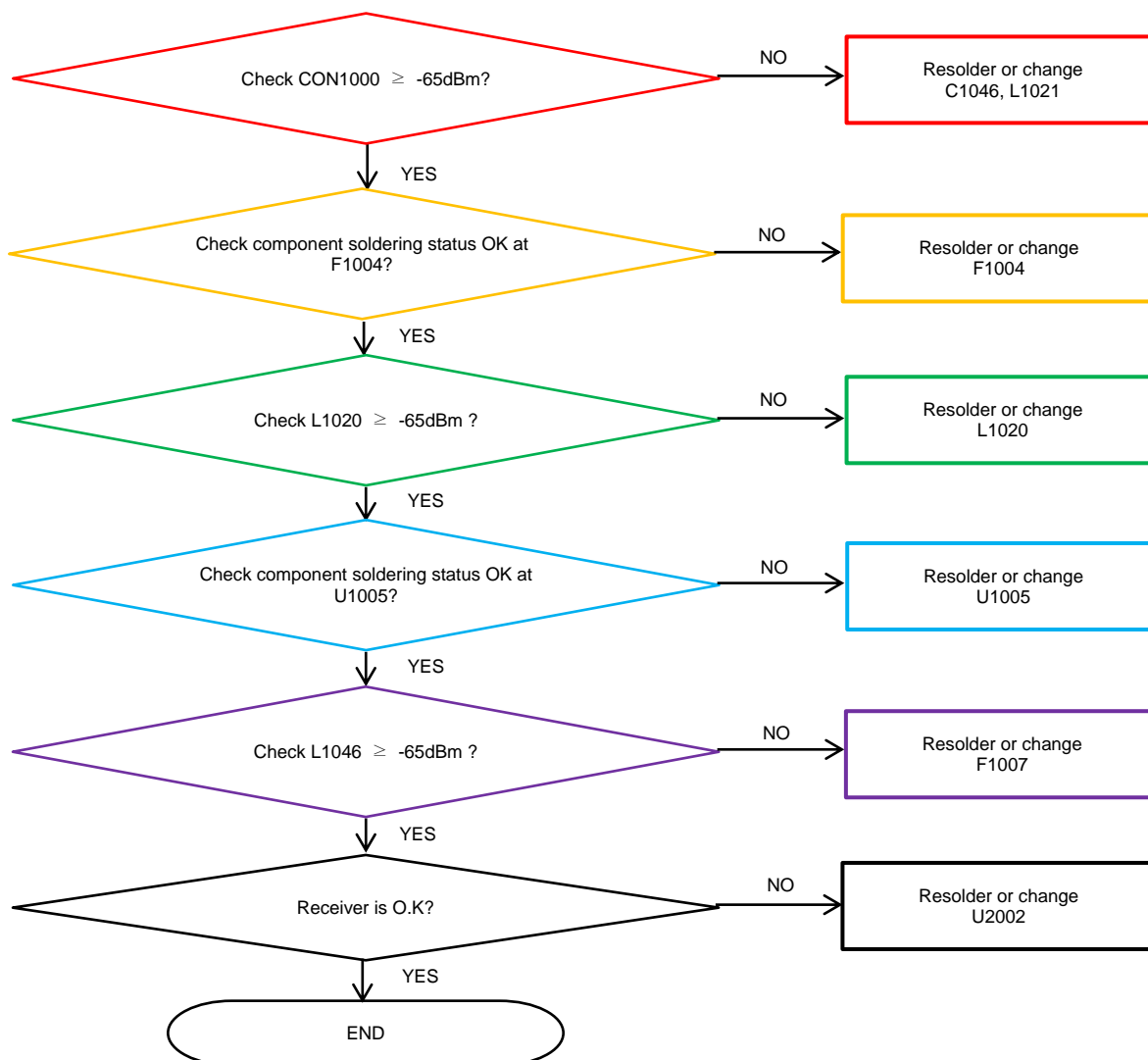
8. Level 3 Repair

8-4-30. LTE B7 RX



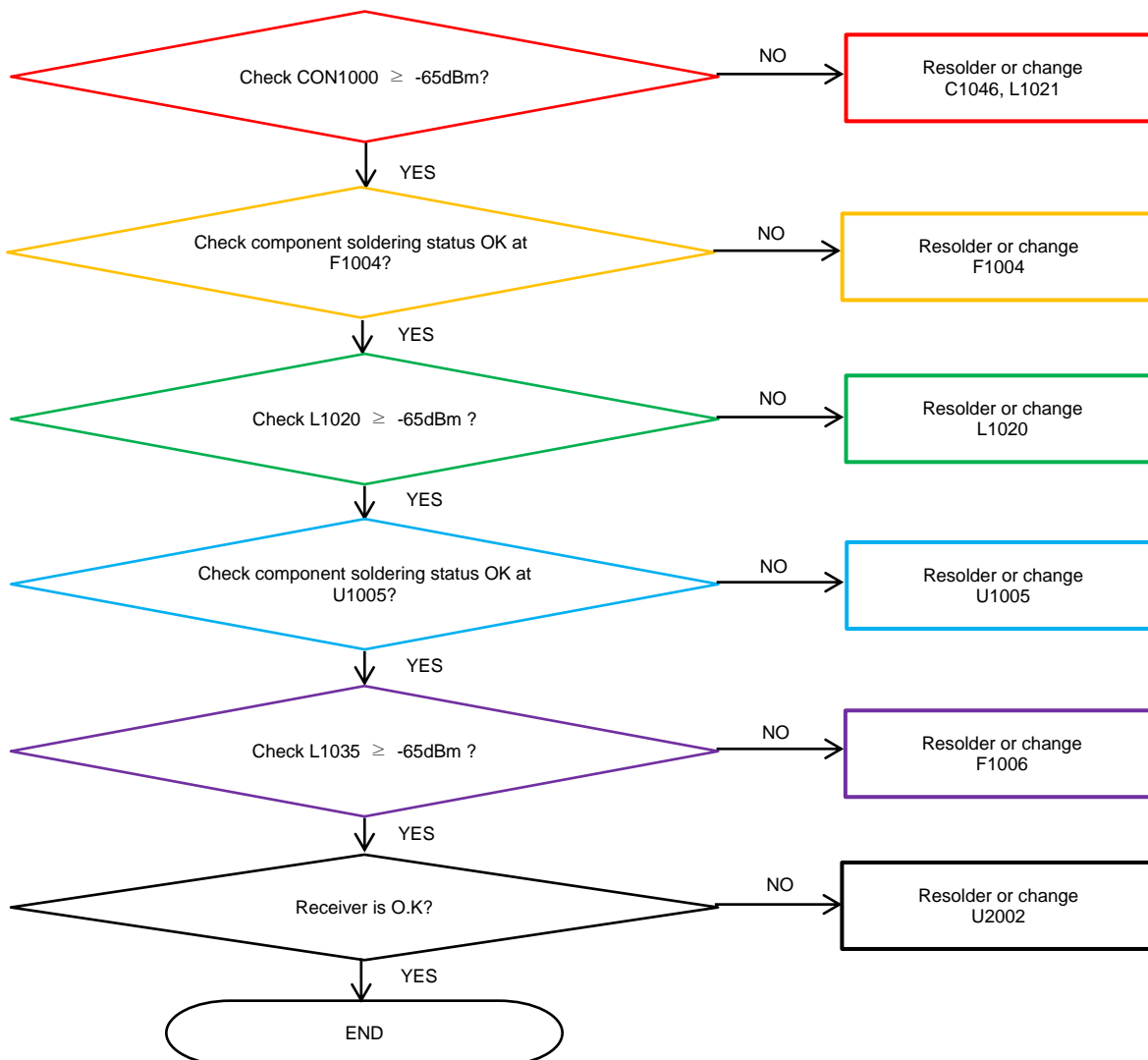
8. Level 3 Repair

8-4-31. LTE B38_41 RX



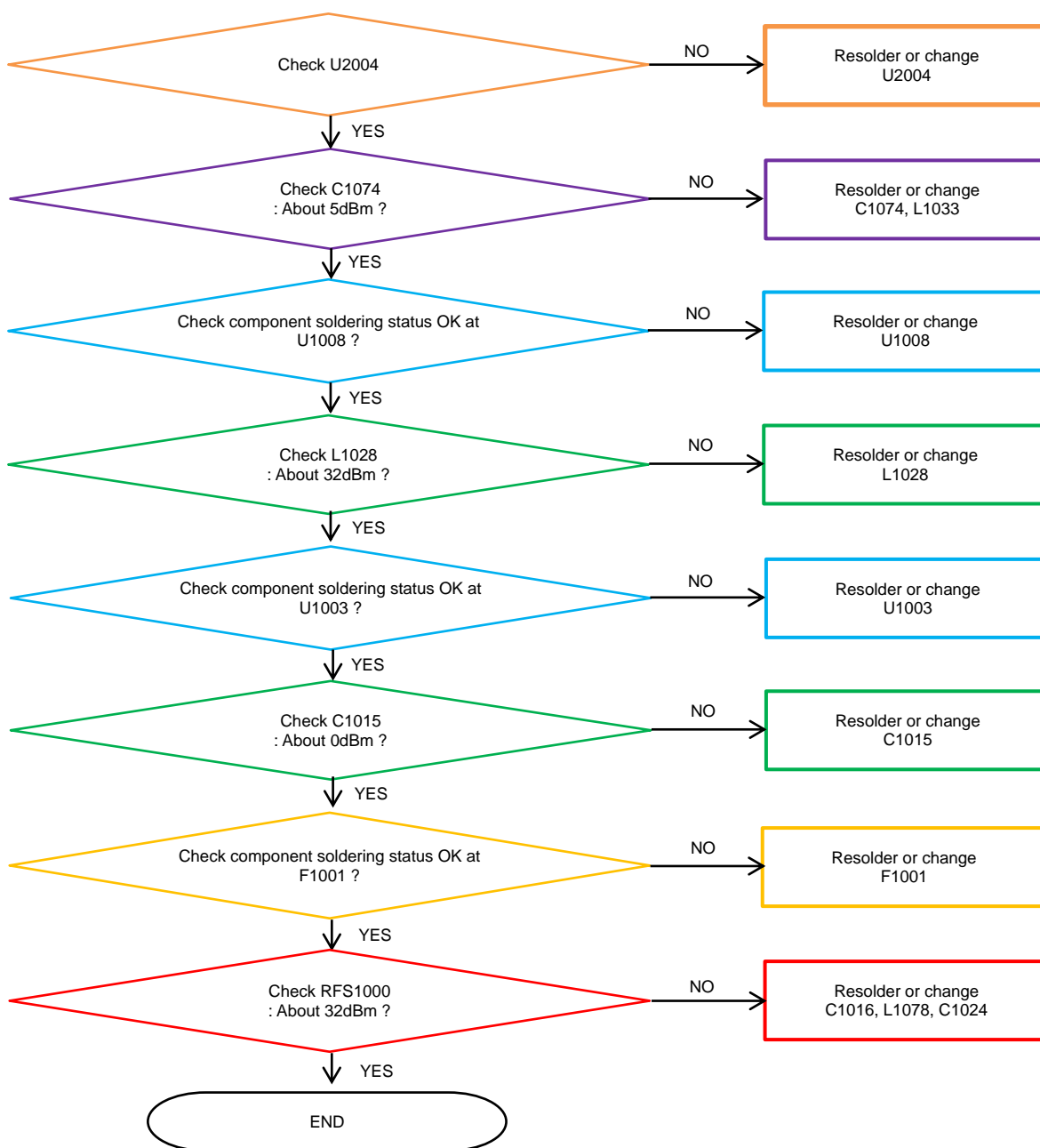
8. Level 3 Repair

8-4-32. LTE B40 RX



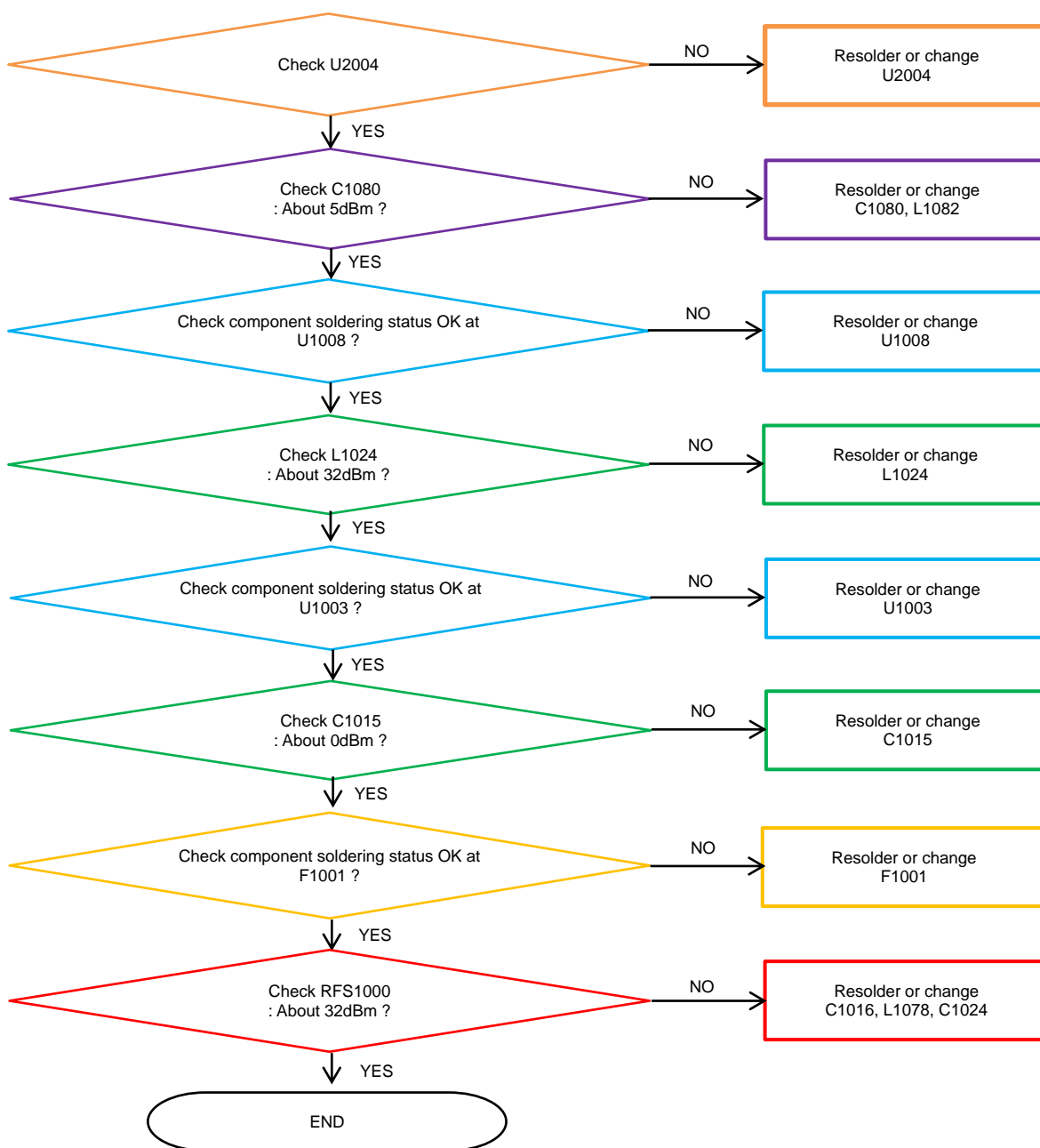
8. Level 3 Repair

8-4-33. GSM 850 / GSM900 TX



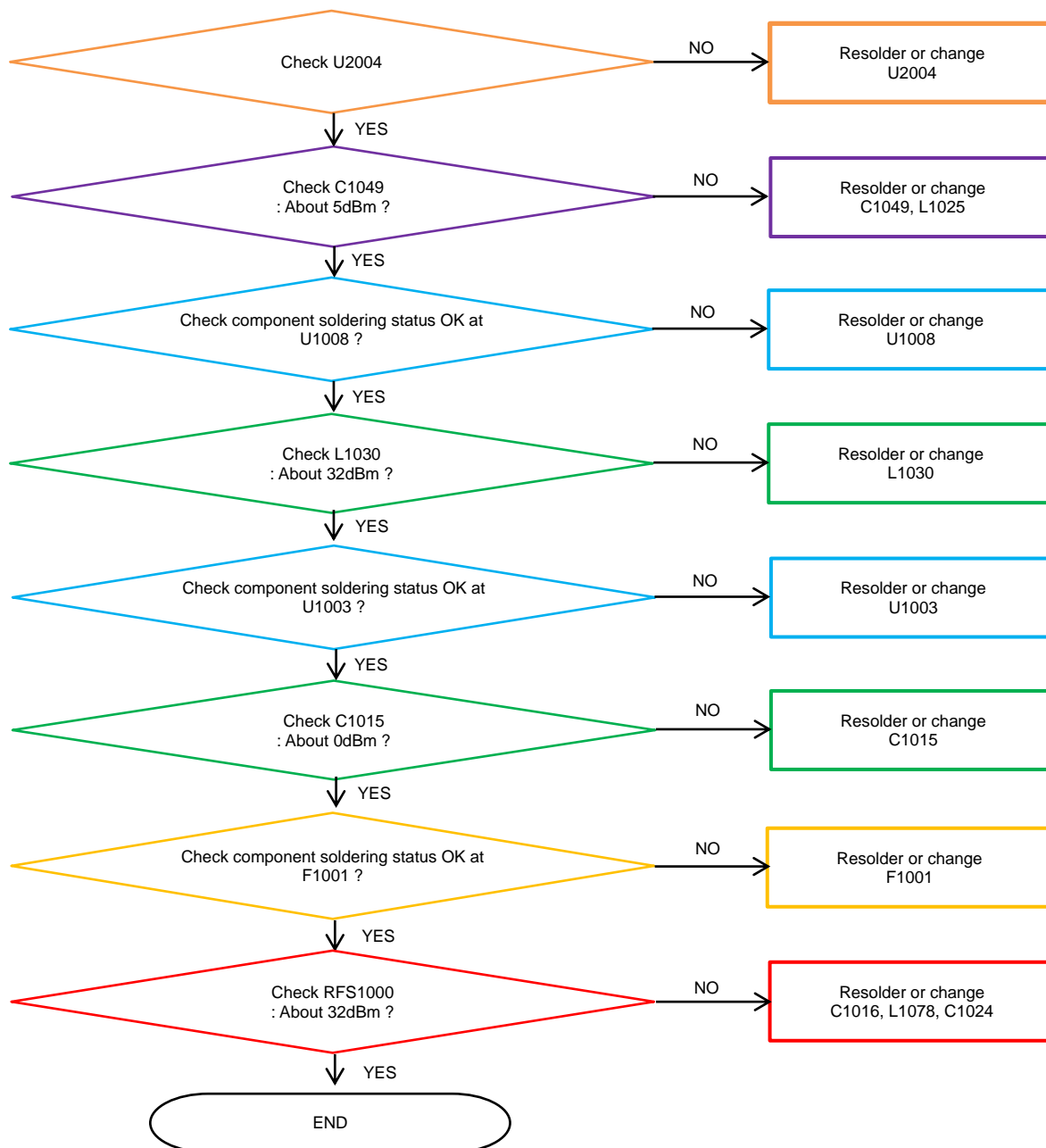
8. Level 3 Repair

8-4-34. GSM1800/ GSM1900 TX



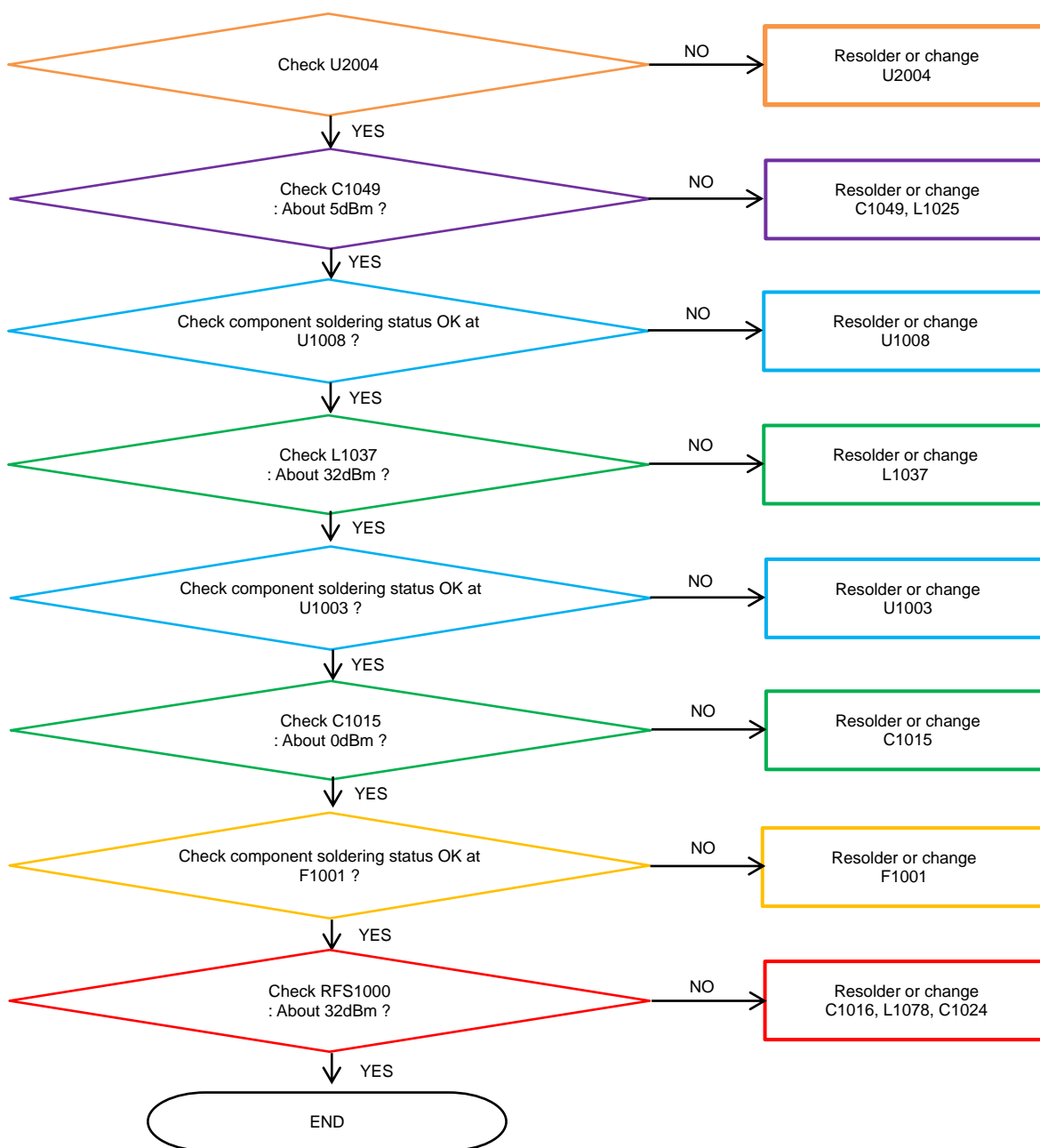
8. Level 3 Repair

8-4-35. LTE, WCDMA B1 TX



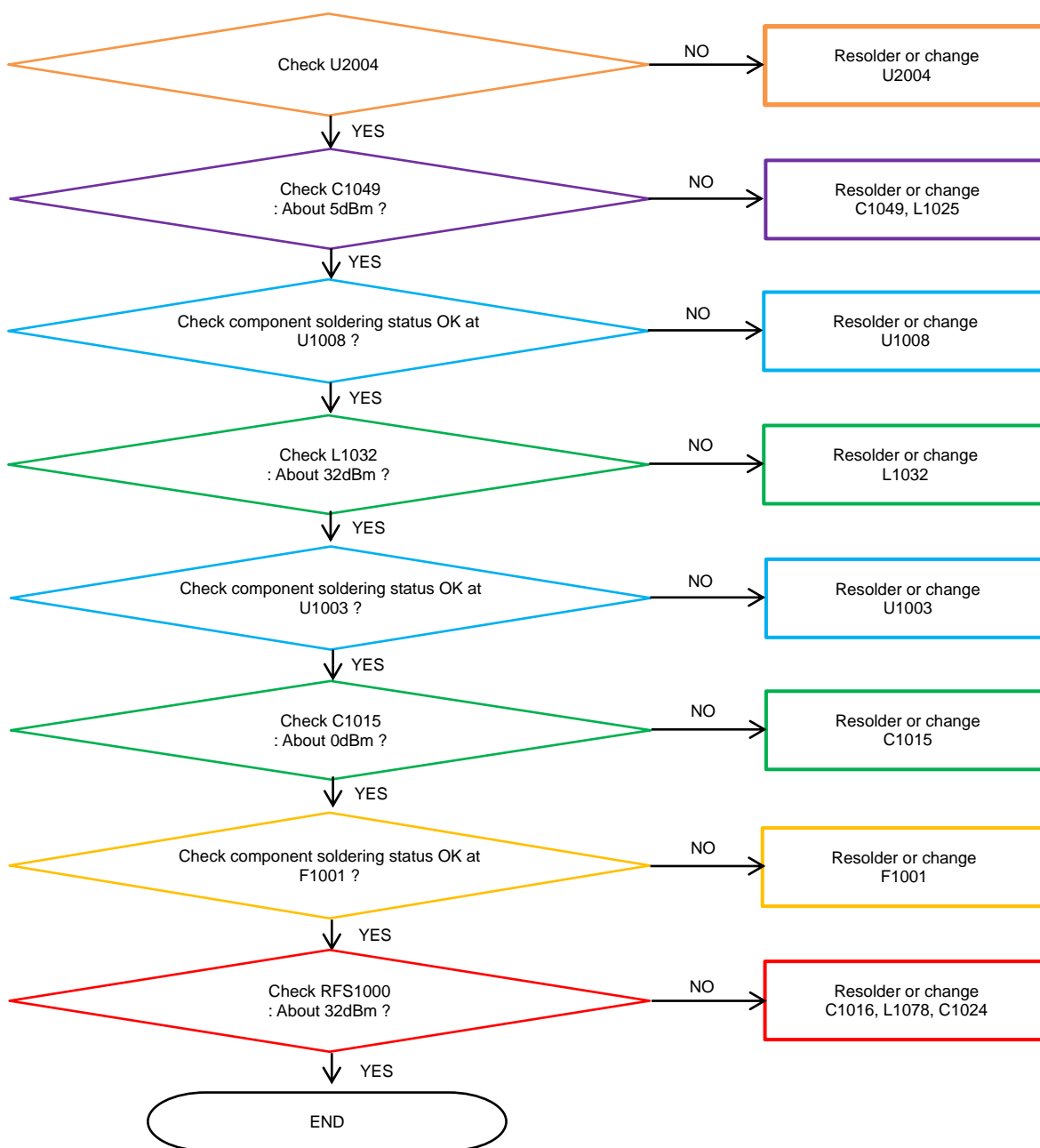
8. Level 3 Repair

8-4-36. WCDMA B2 TX



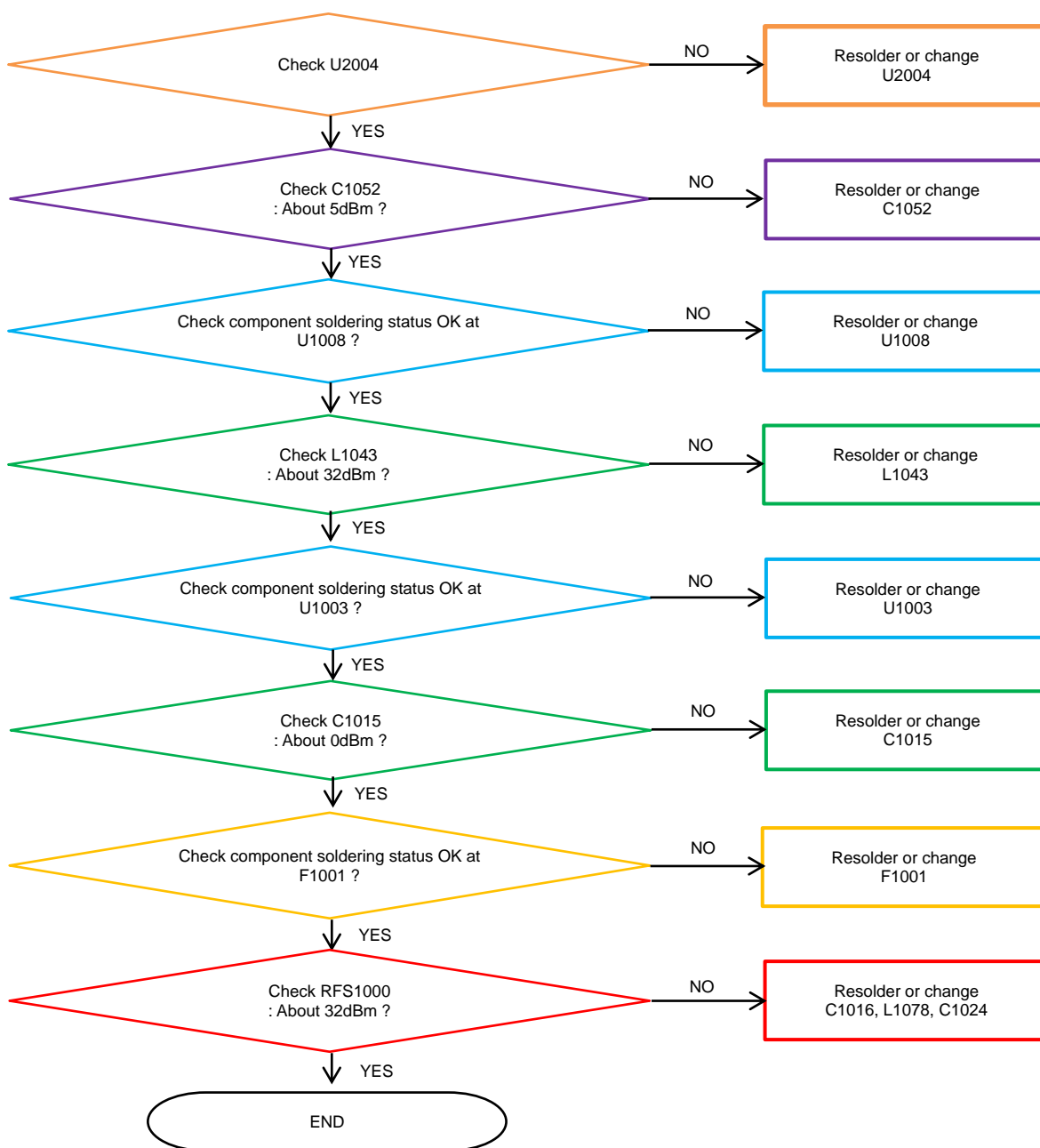
8. Level 3 Repair

8-4-37. LTE B3 TX



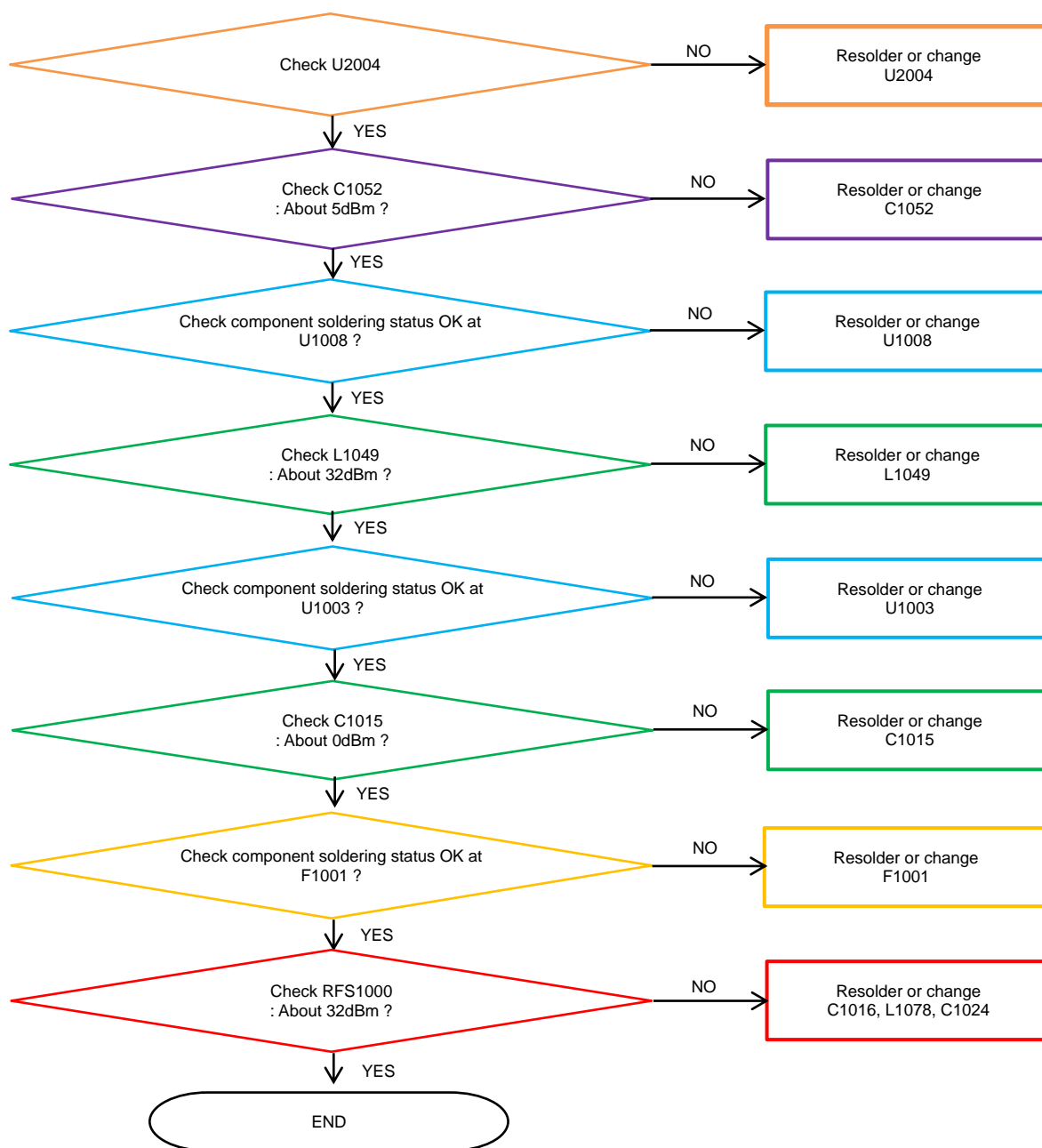
8. Level 3 Repair

8-4-38. LTE, WCDMA B5 TX



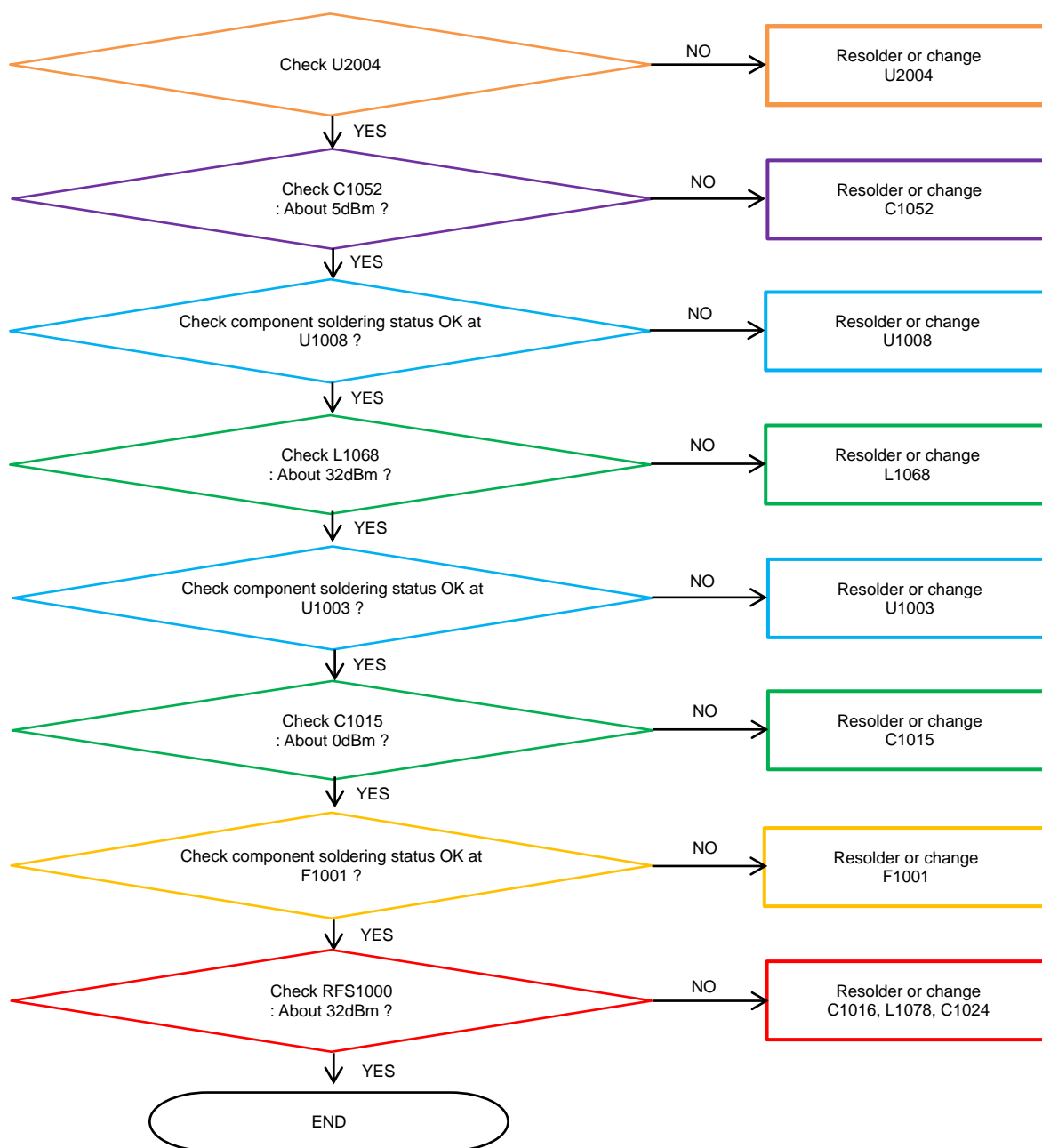
8. Level 3 Repair

8-4-39. LTE, WCDMA B8 TX



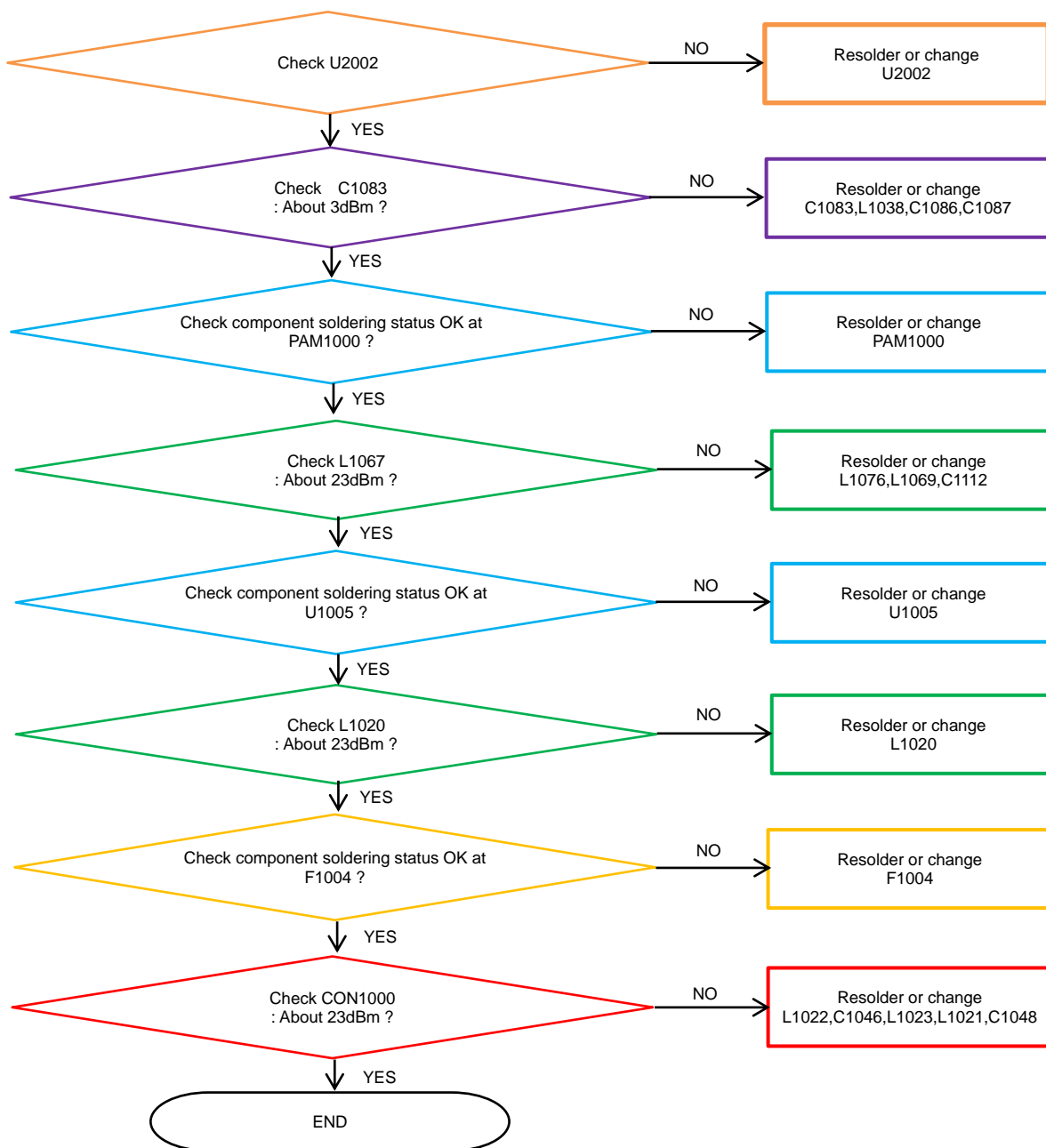
8. Level 3 Repair

8-4-40. LTE B20 TX



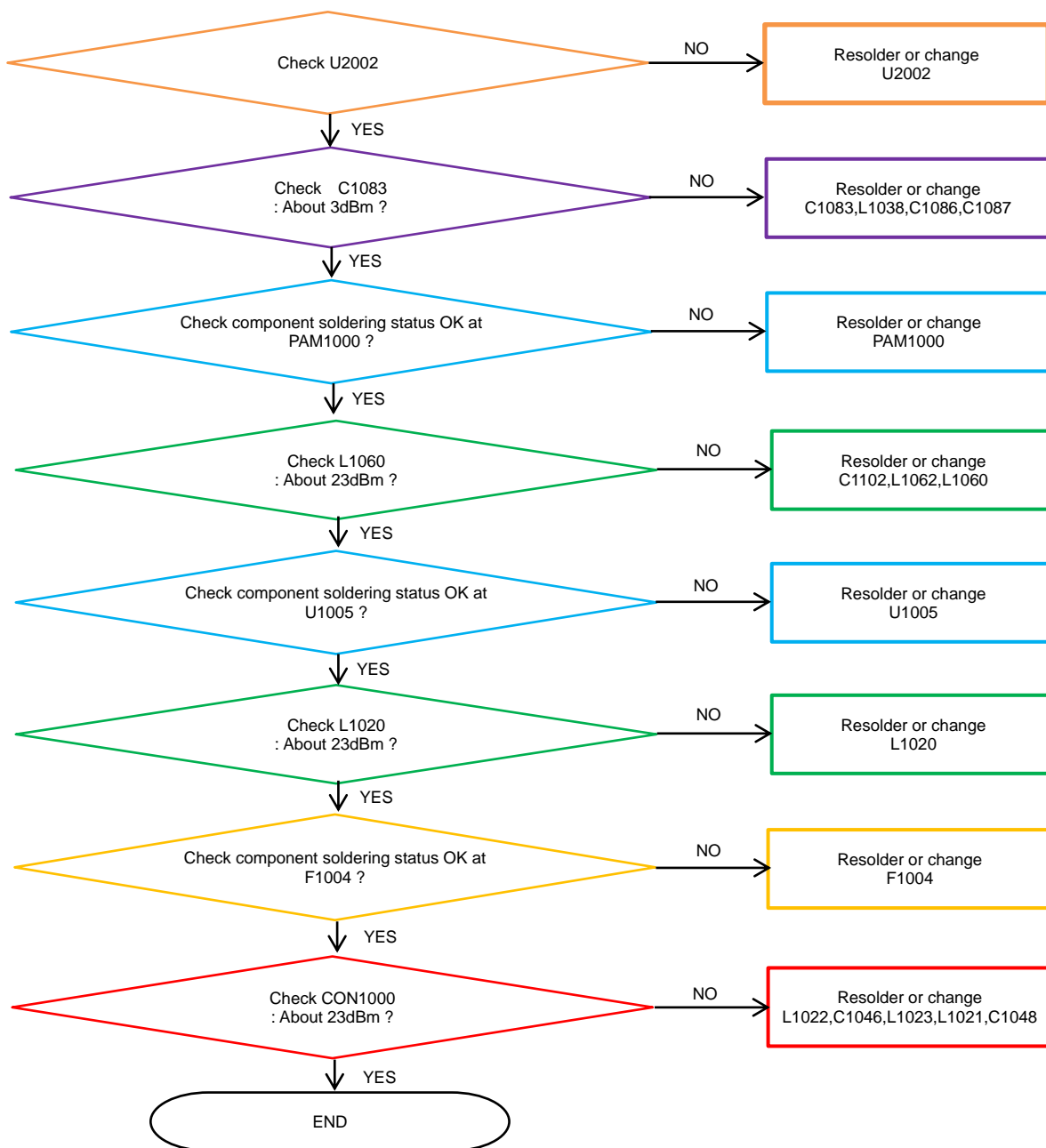
8. Level 3 Repair

8-4-41. LTE B7 TX



8. Level 3 Repair

8-4-42. LTE B38, 41 TX



8. Level 3 Repair

8-4-43. LTE B40 TX

