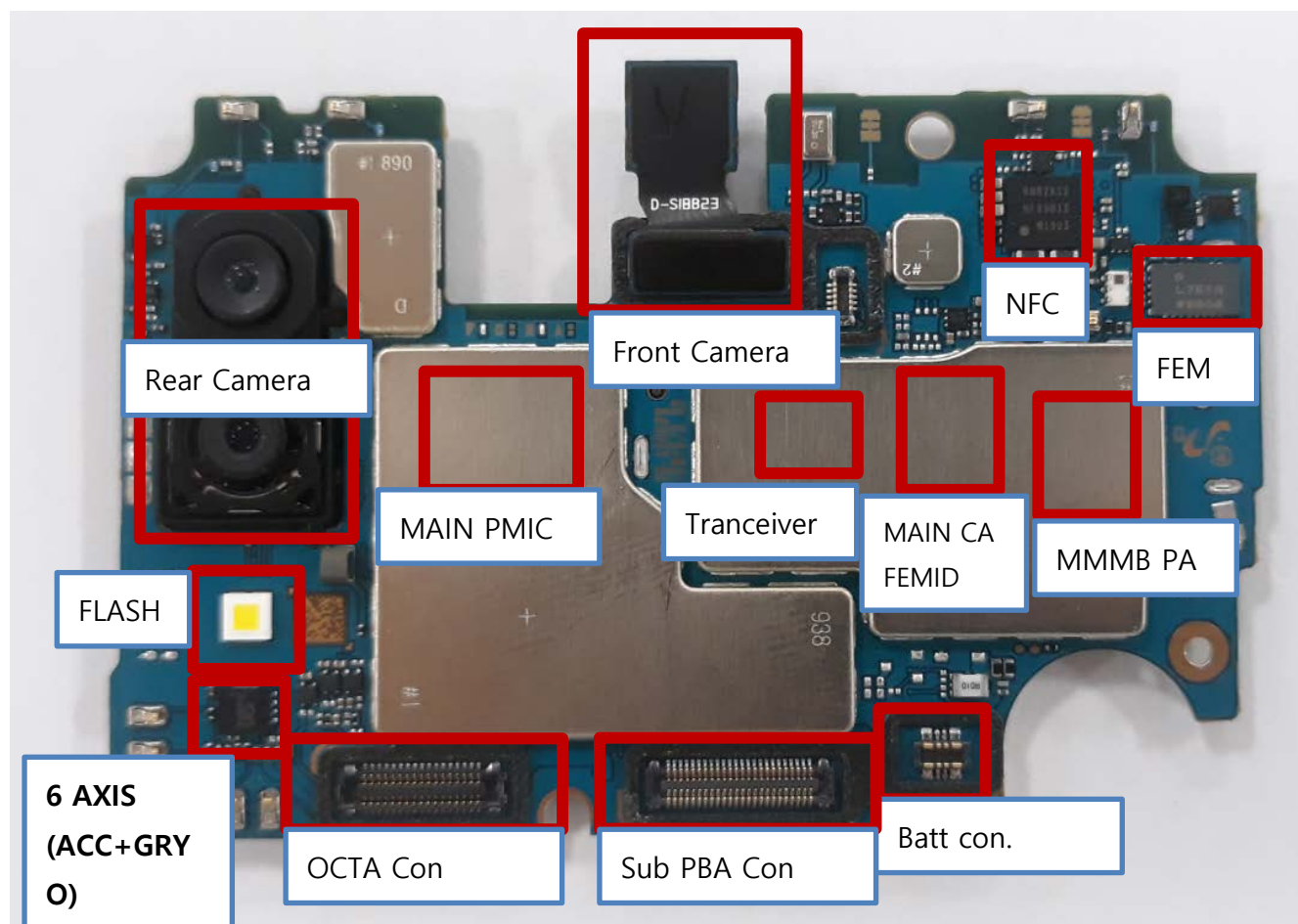
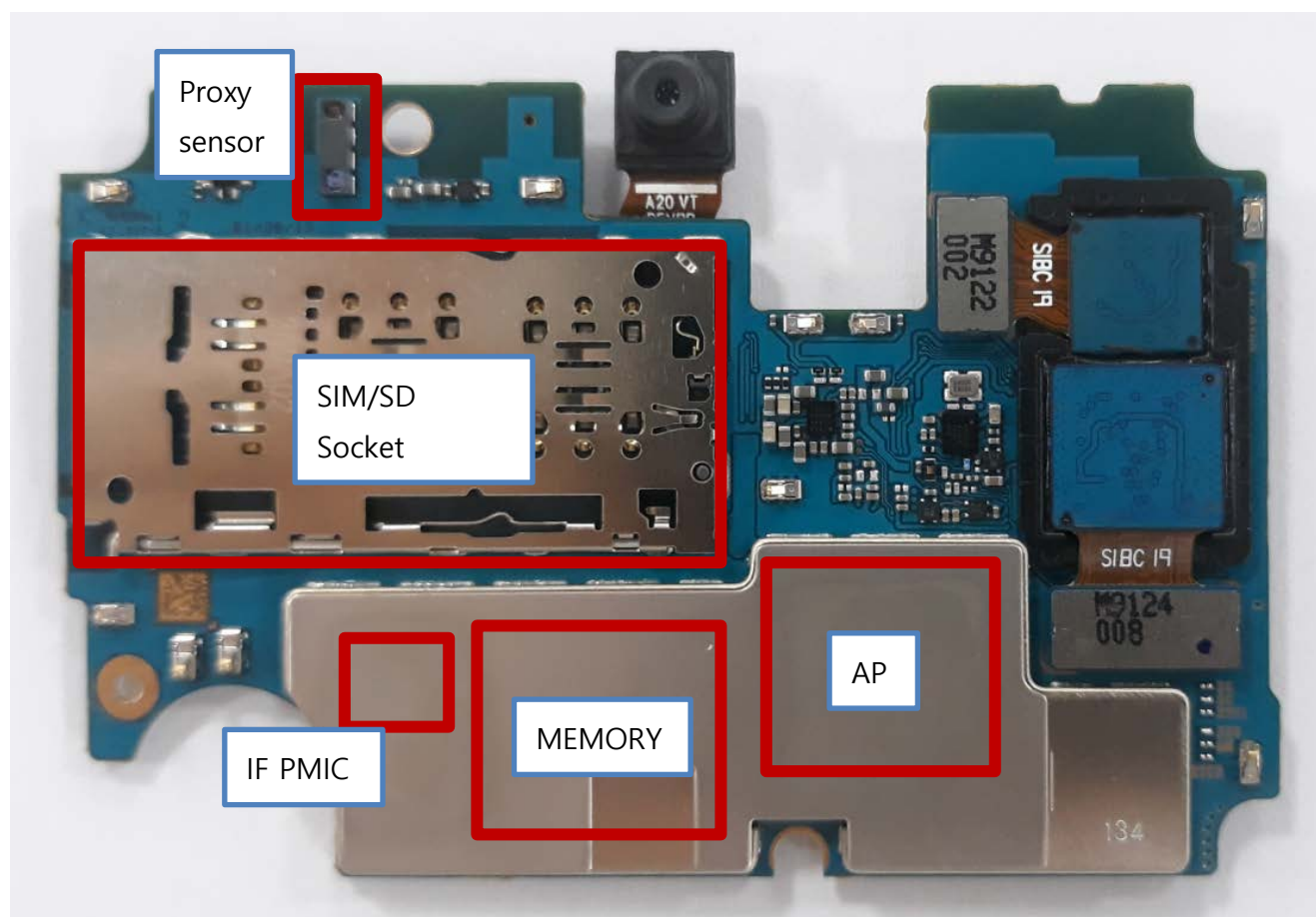

8. Level 3 Repair

8-1. Components Layout



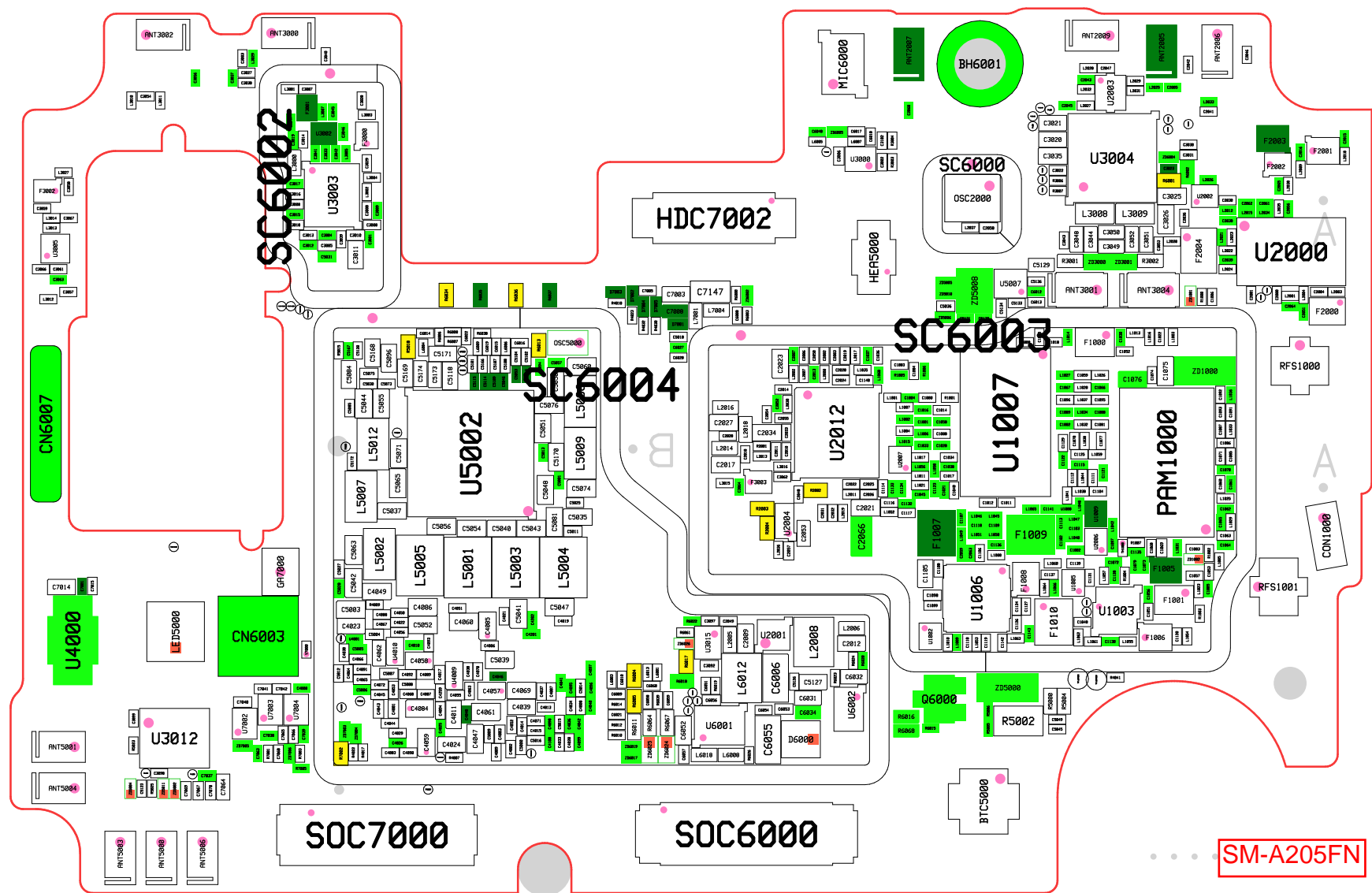
8. Level 3 Repair



A205FN Block Diagram

[지원밴드]
2G: GSM900/DCS/PCS/GSM850
3G: B1/B2/B5/B8
4G_FDD: B1/B3/B5/B7/B20
4G_TDD: B38/B40/B41





A205F Block Diagram

[지원밴드]
2G: GSM900/DCS/PCS/GSM850
3G: B1/B2/B5/B8
4G_FDD: B1/B3/B5/B7/B20
4G_TDD: B38/B40/B41



SM-A205F

U3016

SIM4UP

SIM3

SIM1

SIM2

HDC7003

SC6005

UCP400

HDC7001

UME5000

U5001

L5011

L7009

C7044

L7007

BH6000

BH6002

CN6002

JTAG4000

RNT2083

RNT5802

RNT5805

RNT2001

R3005

C3100

U3014

R3014

R3012

C6825

C3101

C3011

RNT2008

RNT2002

RNT2008

RNT6000

RNT6001

C7133

C7134

C5832

C7133

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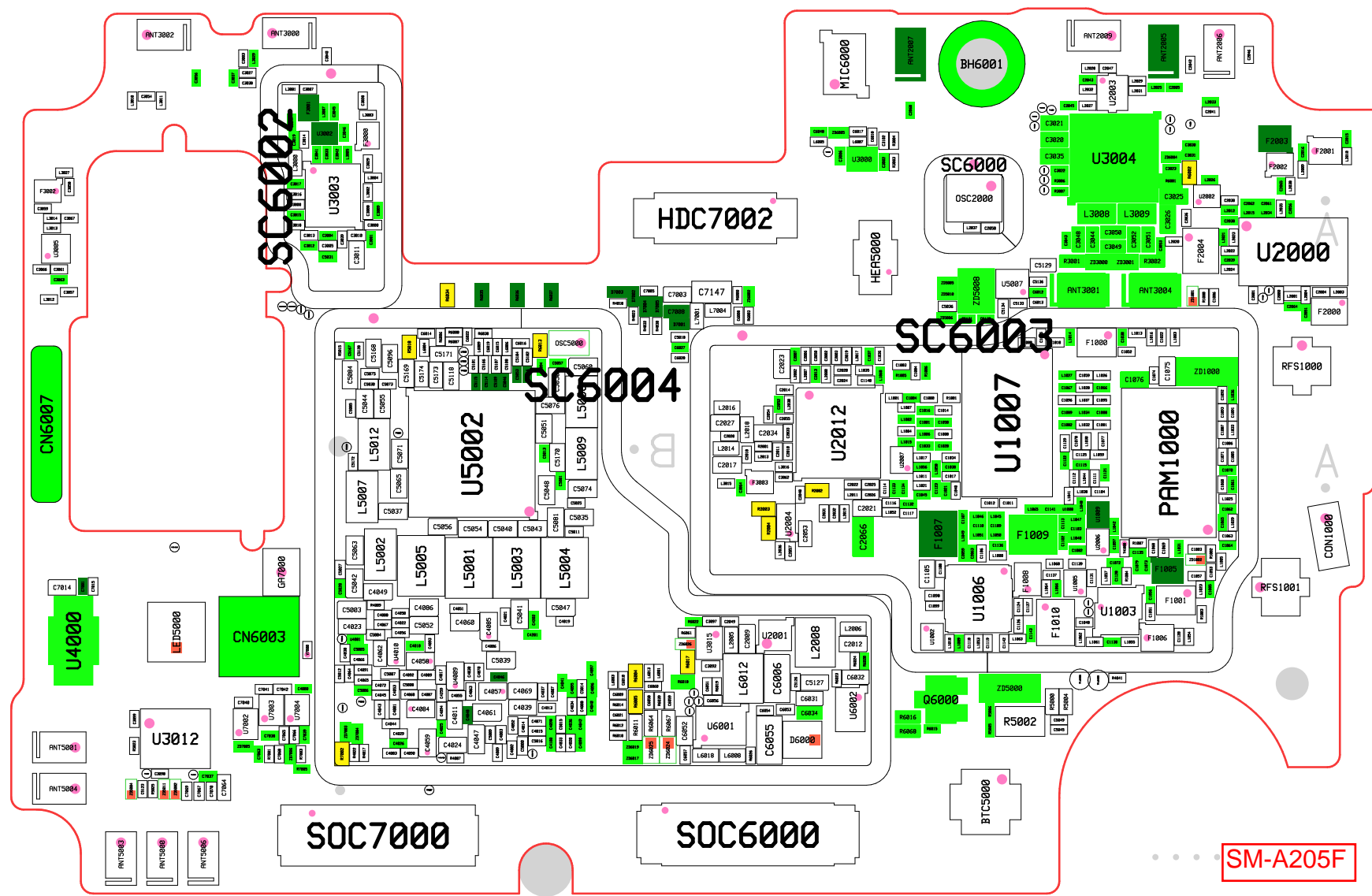
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C7134

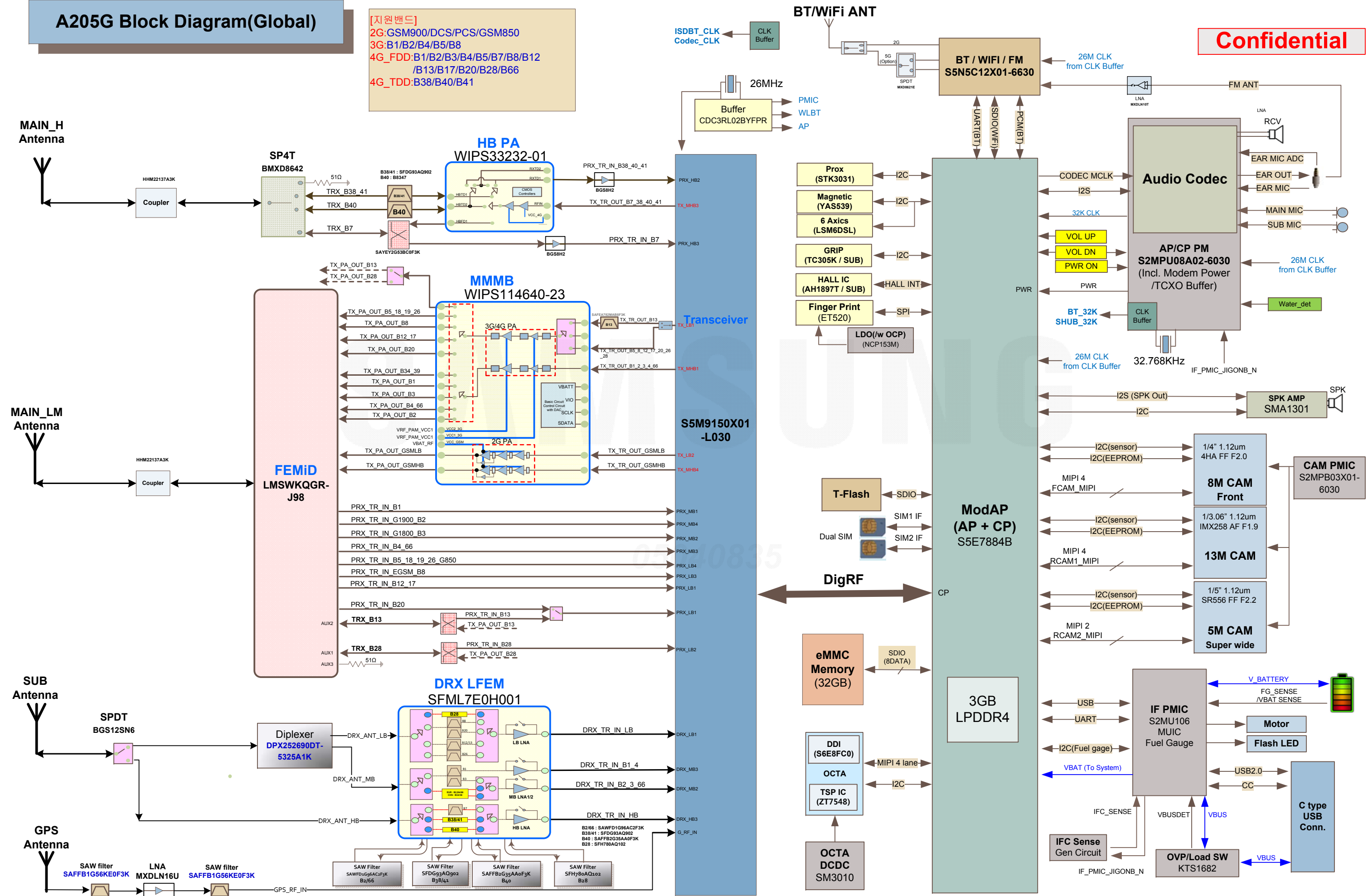
C5832



A205G Block Diagram(Global)

[지원밴드]
2G: GSM900/DCS/PCS/GSM850
3G: B1/B2/B4/B5/B8
4G_FDD: B1/B2/B3/B4/B5/B7/B8/B12
/B13/B17/B20/B28/B66
4G_TDD: B38/B40/B41

Confidential

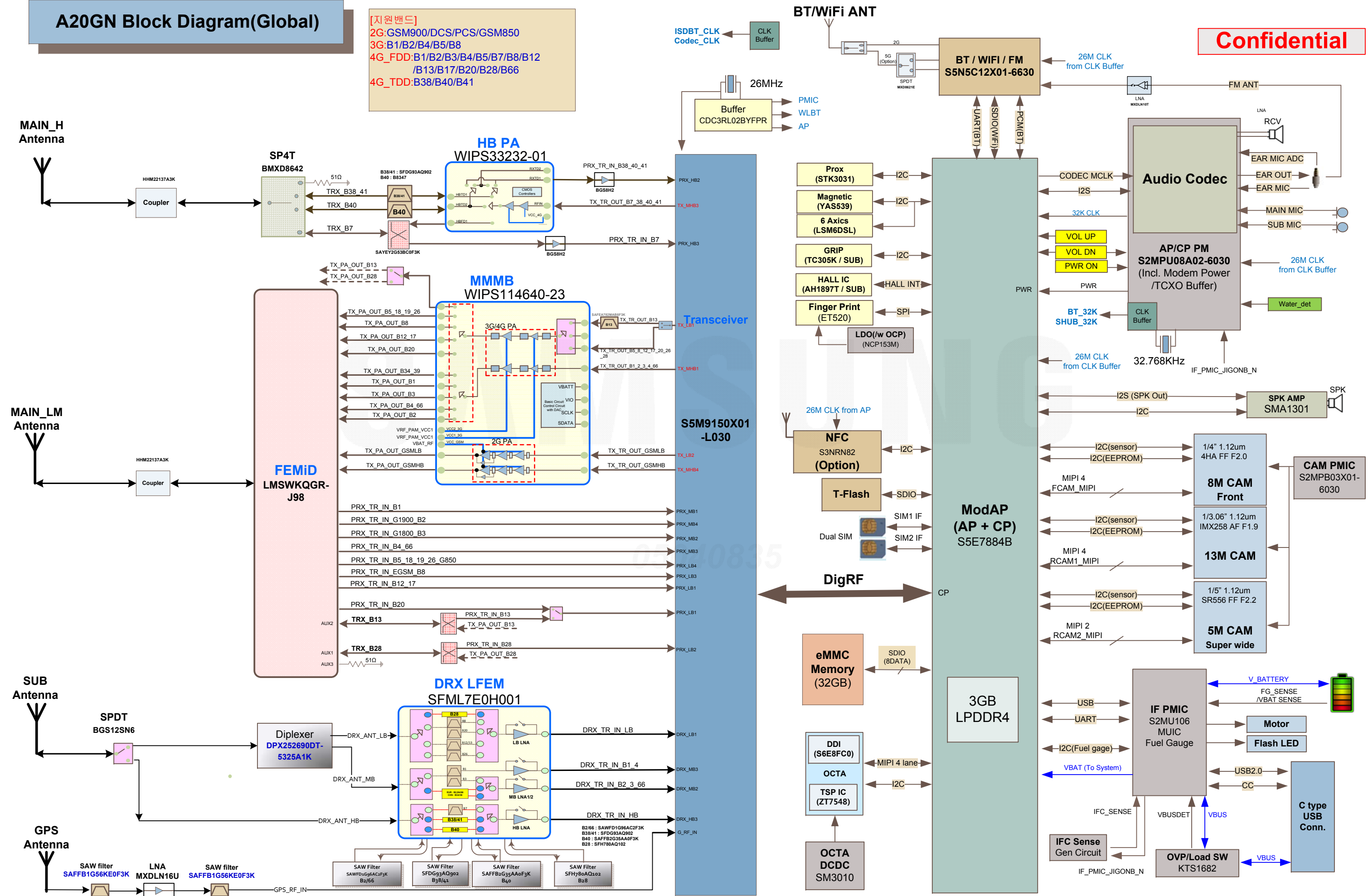




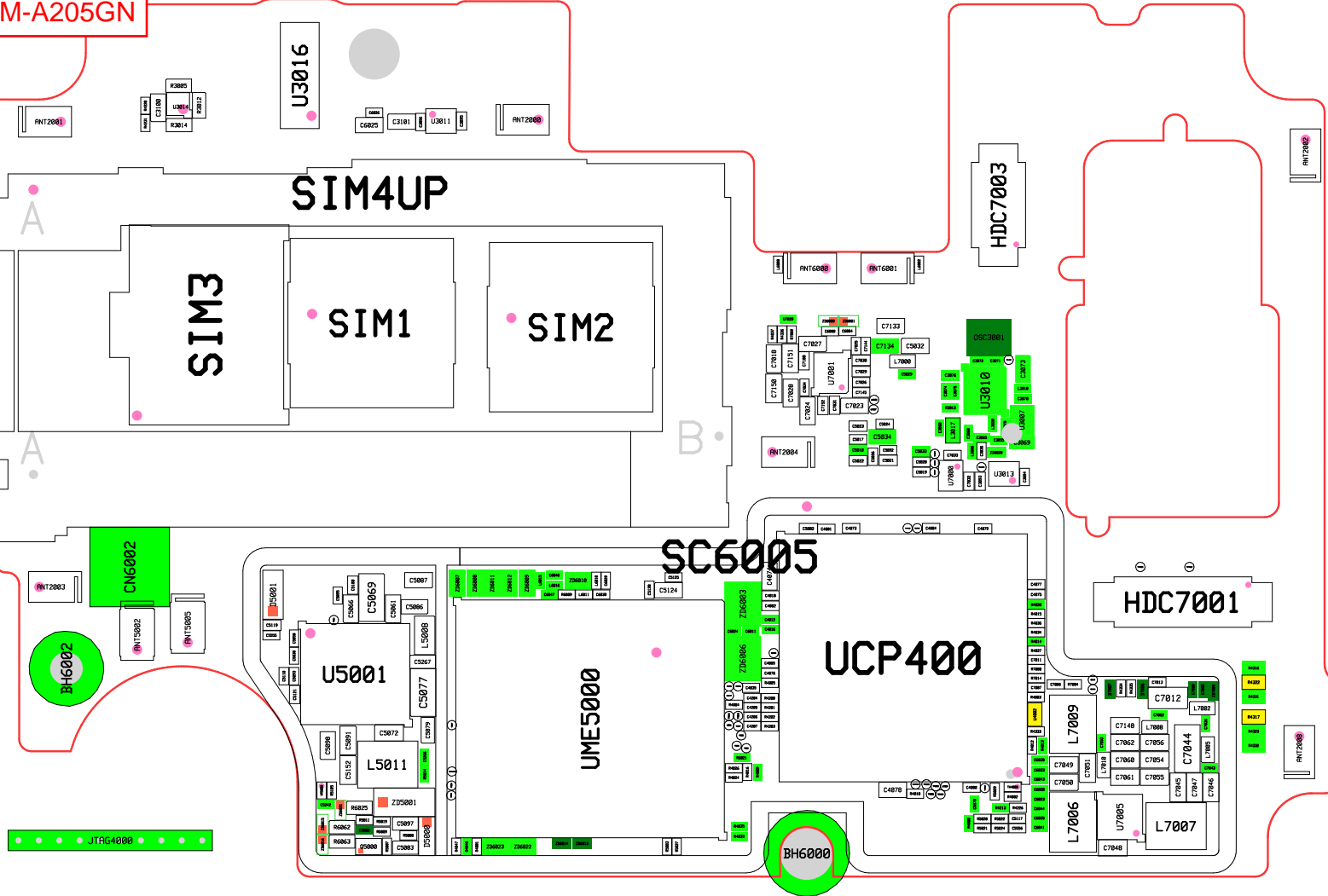
A20GN Block Diagram(Global)

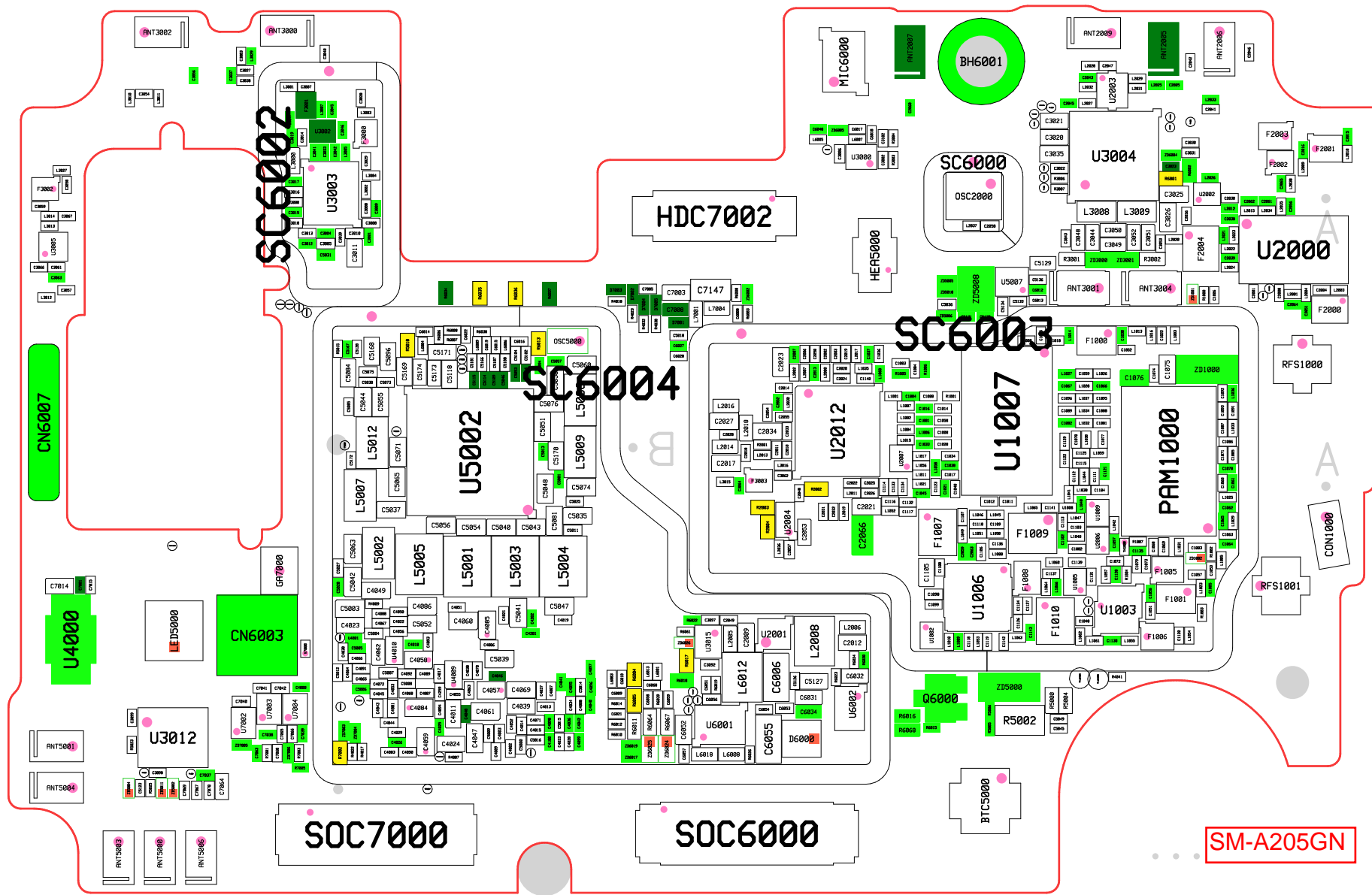
[지원밴드]
2G: GSM900/DCS/PCS/GSM850
3G: B1/B2/B4/B5/B8
4G_FDD: B1/B2/B3/B4/B5/B7/B8/B12
/B13/B17/B20/B28/B66
4G_TDD: B38/B40/B41

Confidential



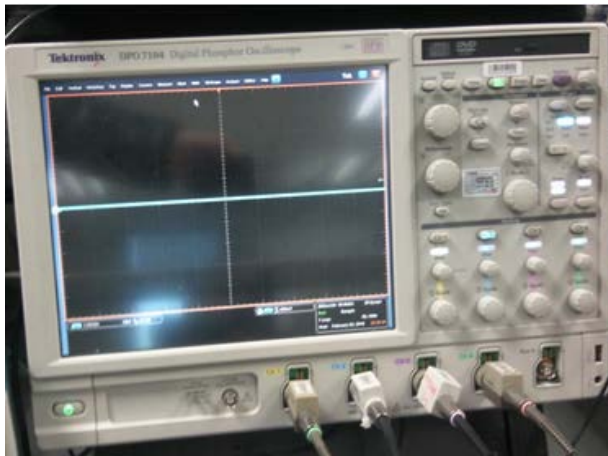
SM-A205GN





8. Level 3 Repair

8-3. Flow chart of Troubleshooting.



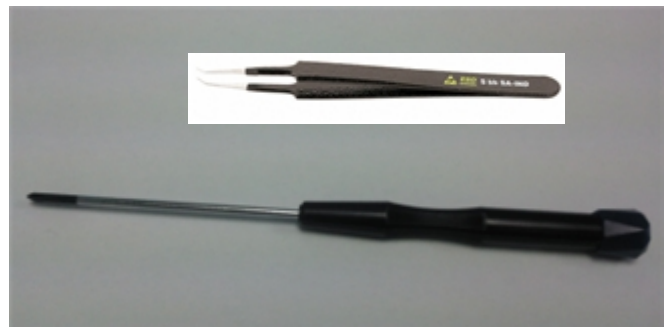
Oscilloscope



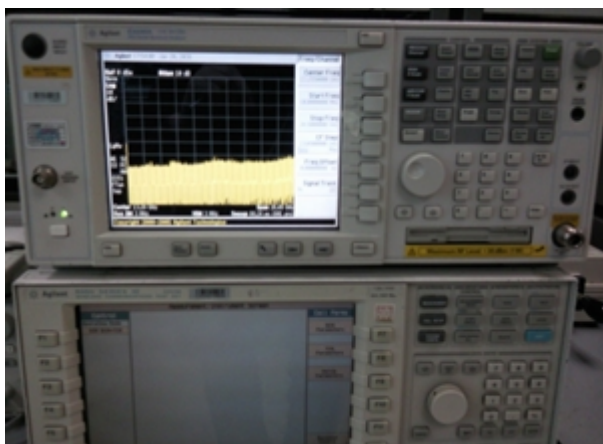
Digital Multimeter



Power Supply



+ driver, ESD Safe Tweezer



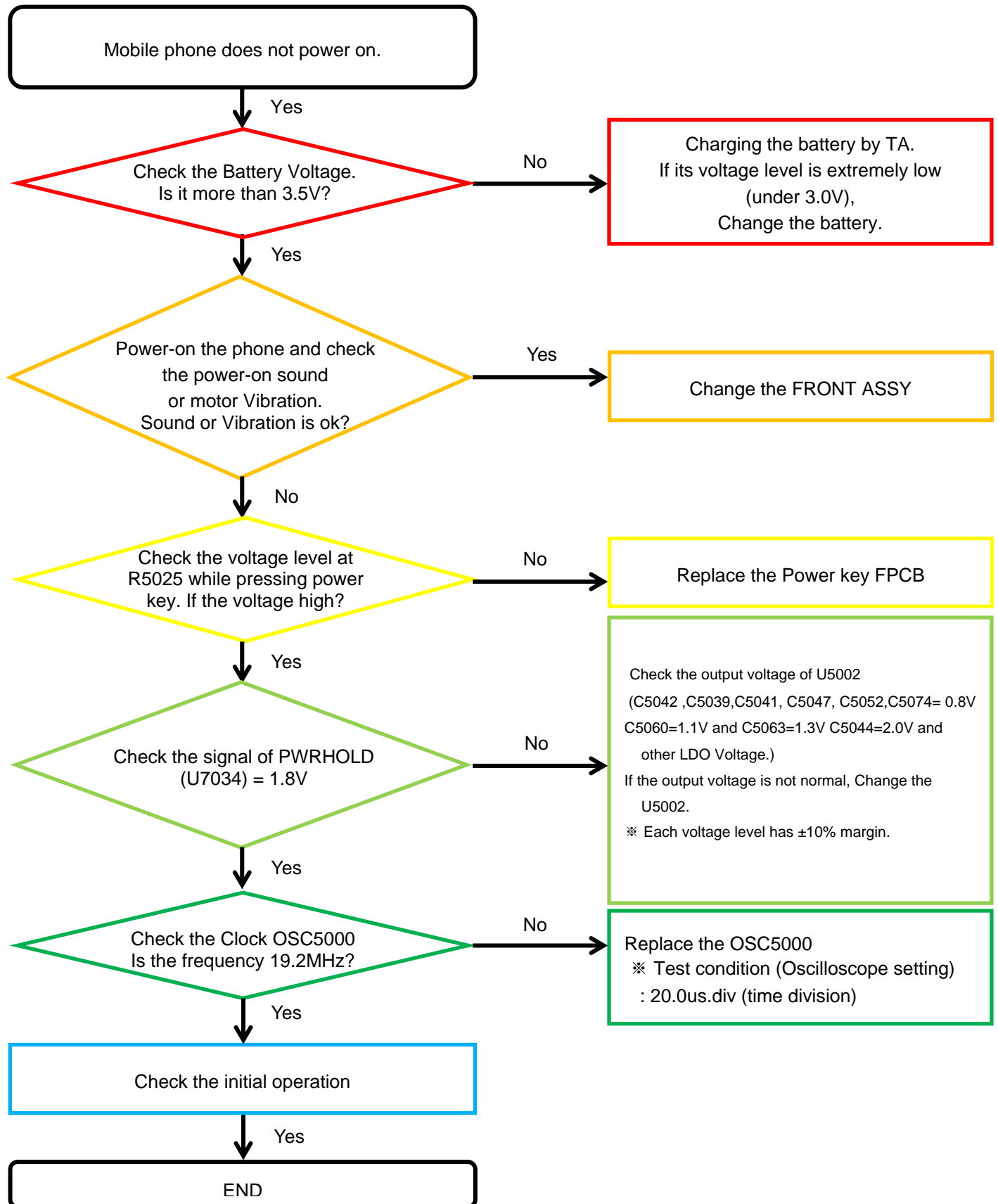
8960 & Spectrum Analyzer



Soldering iron

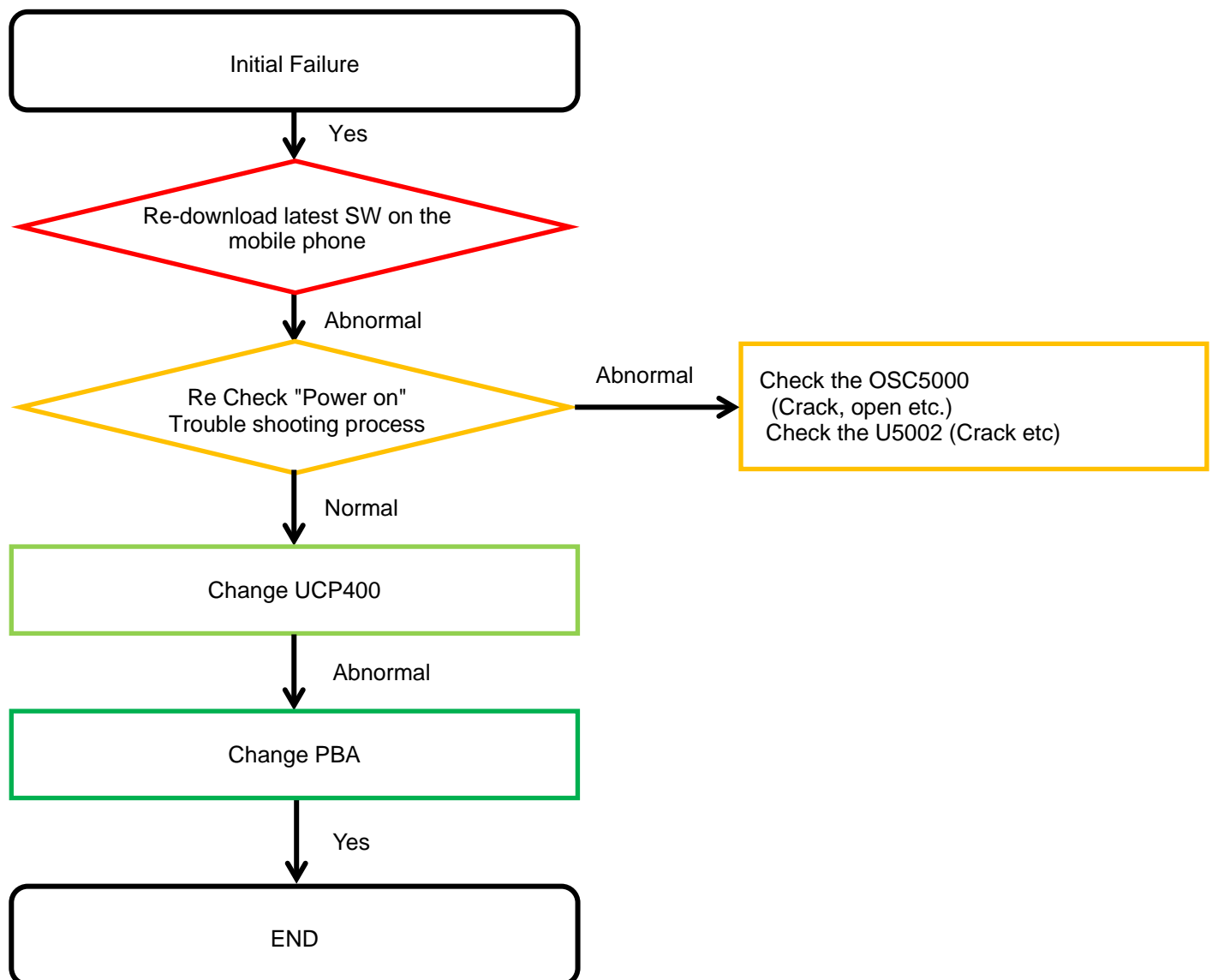
8. Level 3 Repair

8-4-1. Power On



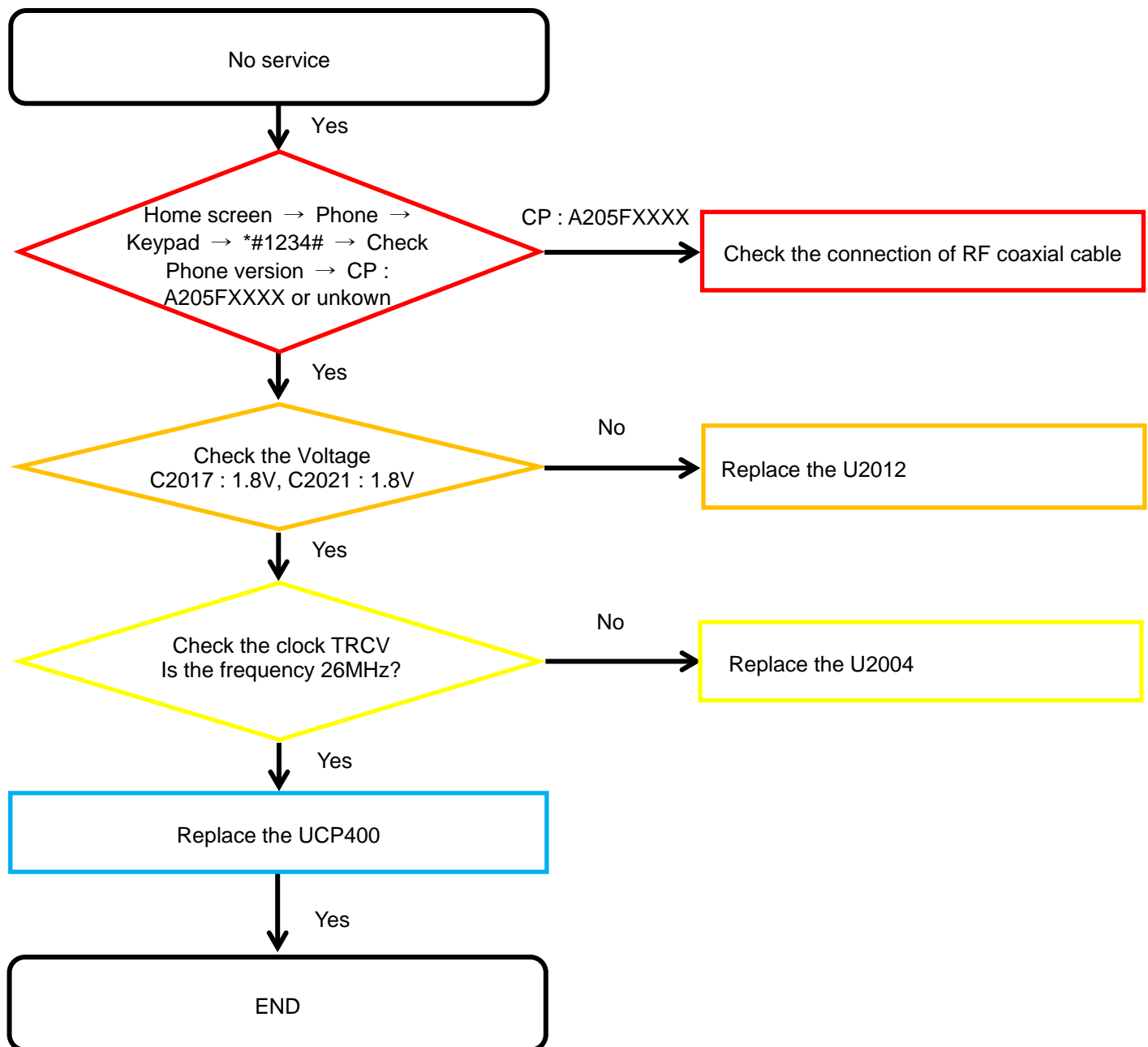
8. Level 3 Repair

8-4-2. Initial



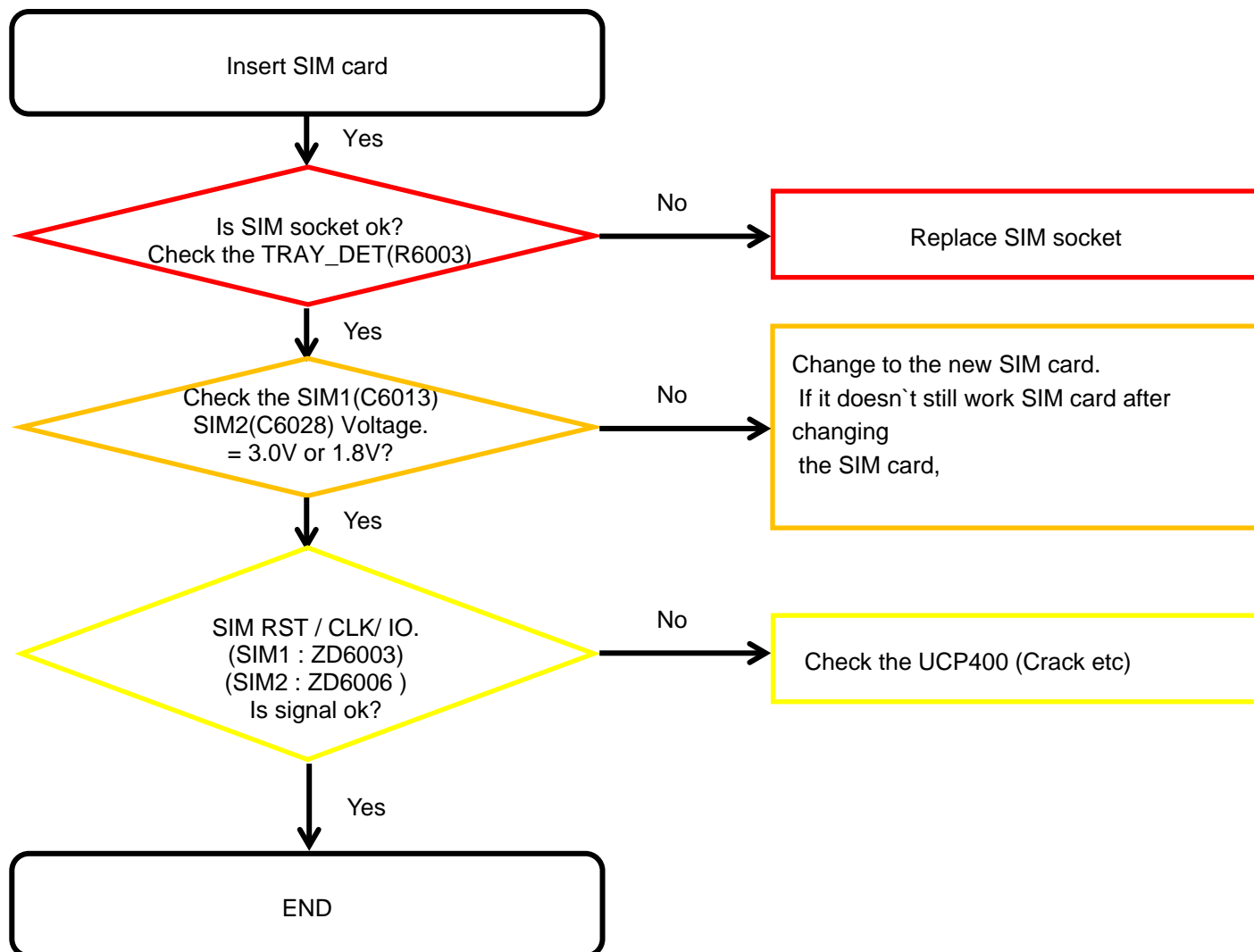
8. Level 3 Repair

8-4-3. No Service



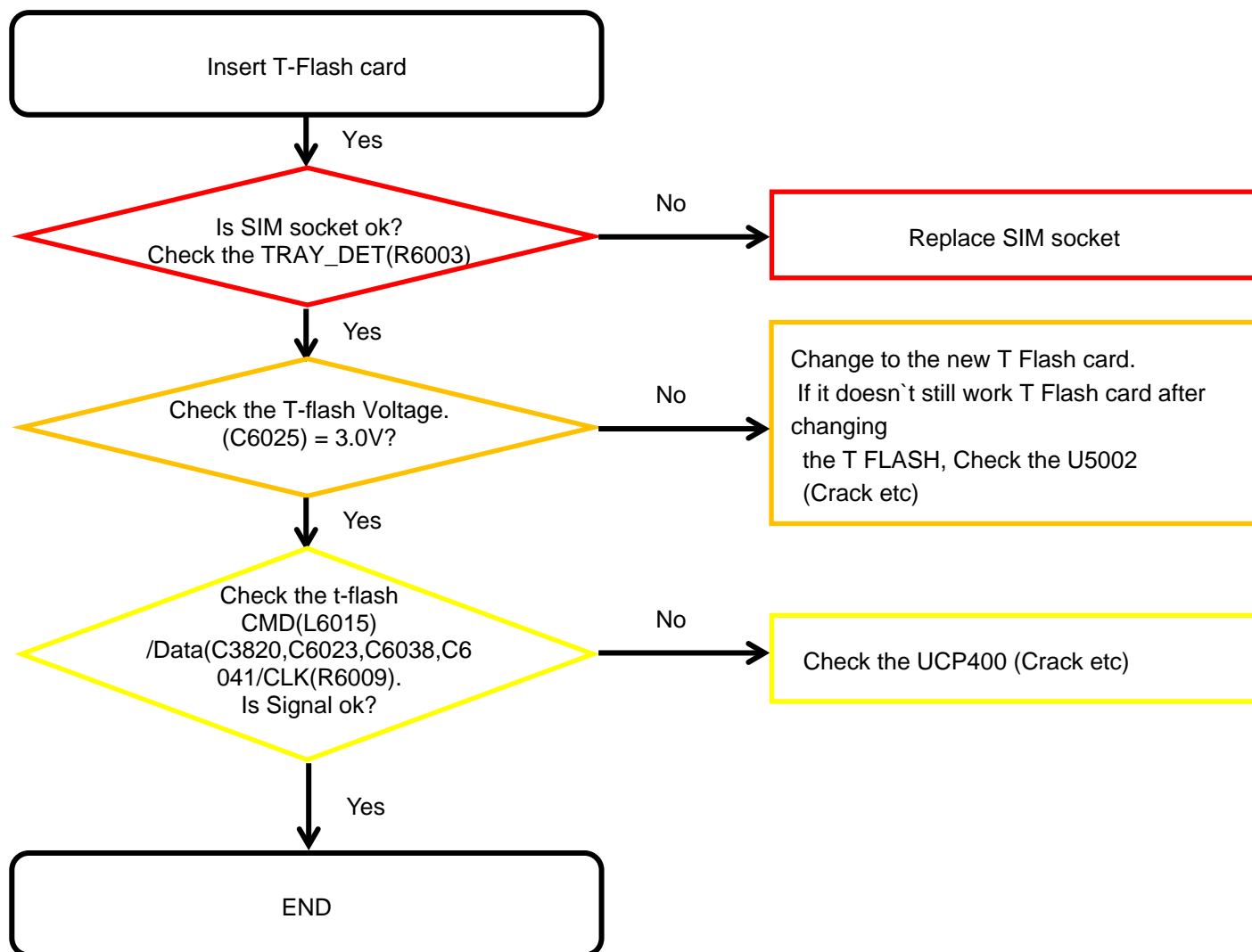
8. Level 3 Repair

8-4-4. SIM Part



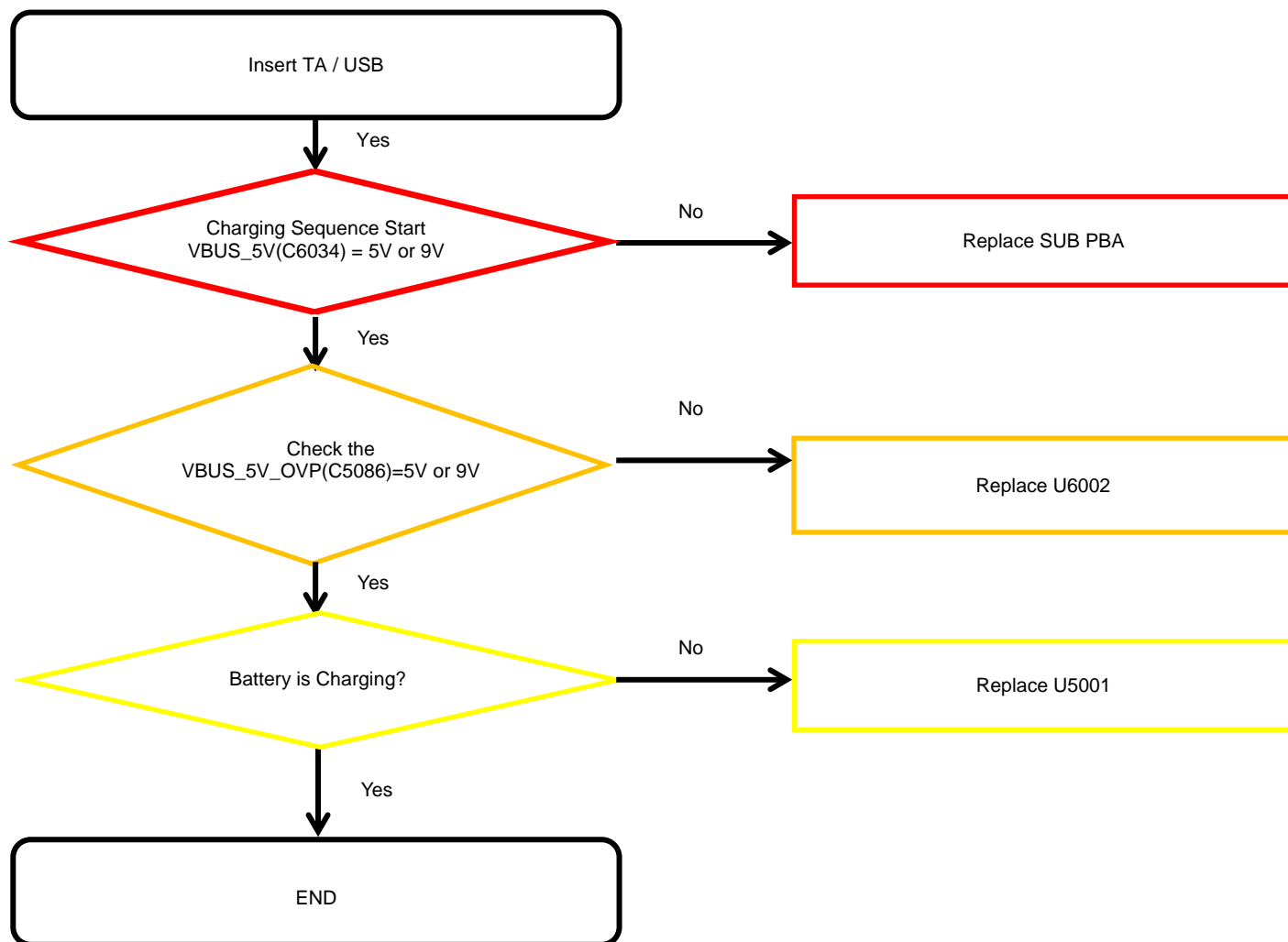
8. Level 3 Repair

8-4-5. T-Flash Part



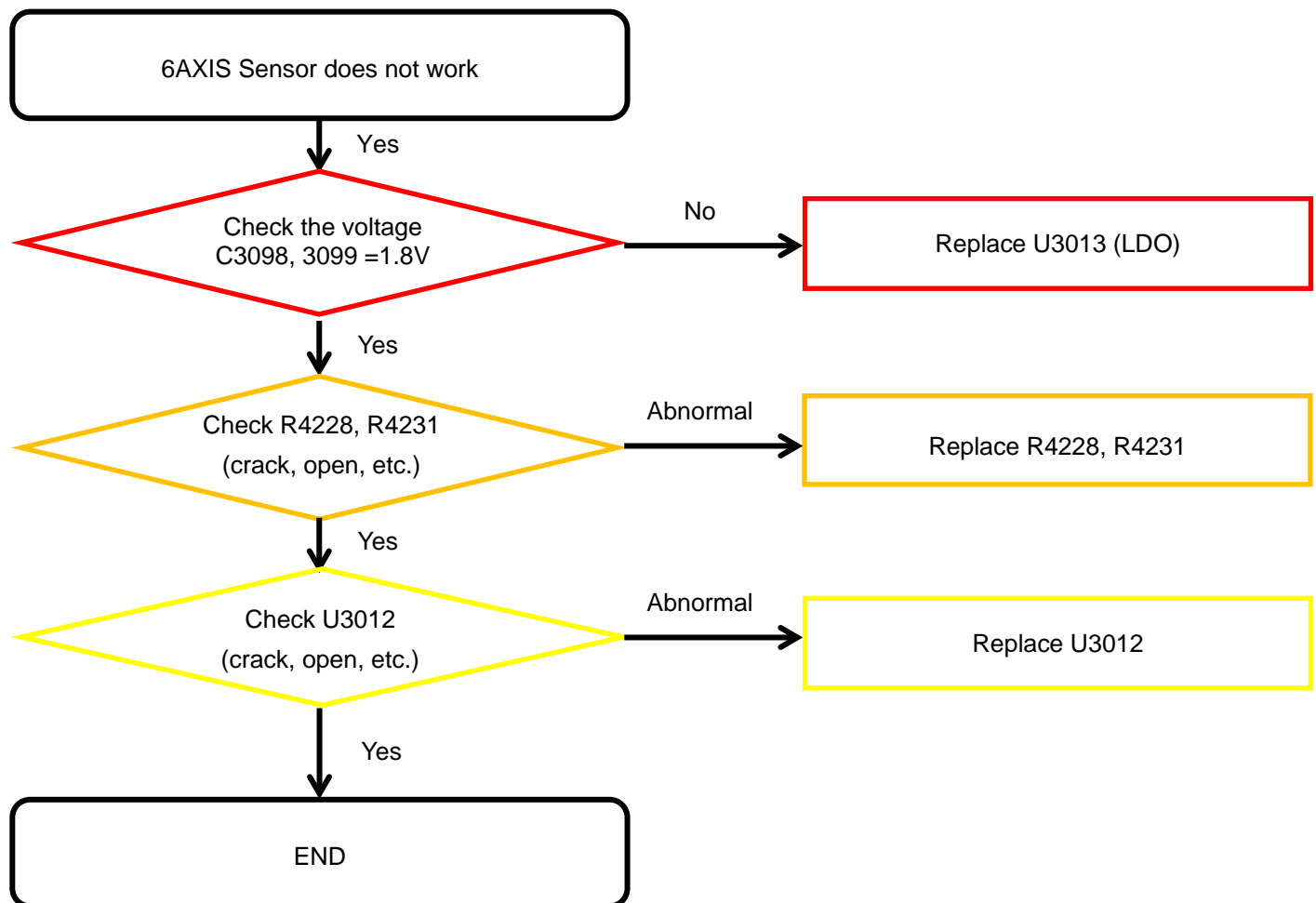
8. Level 3 Repair

8-4-6. Cable Charging Part



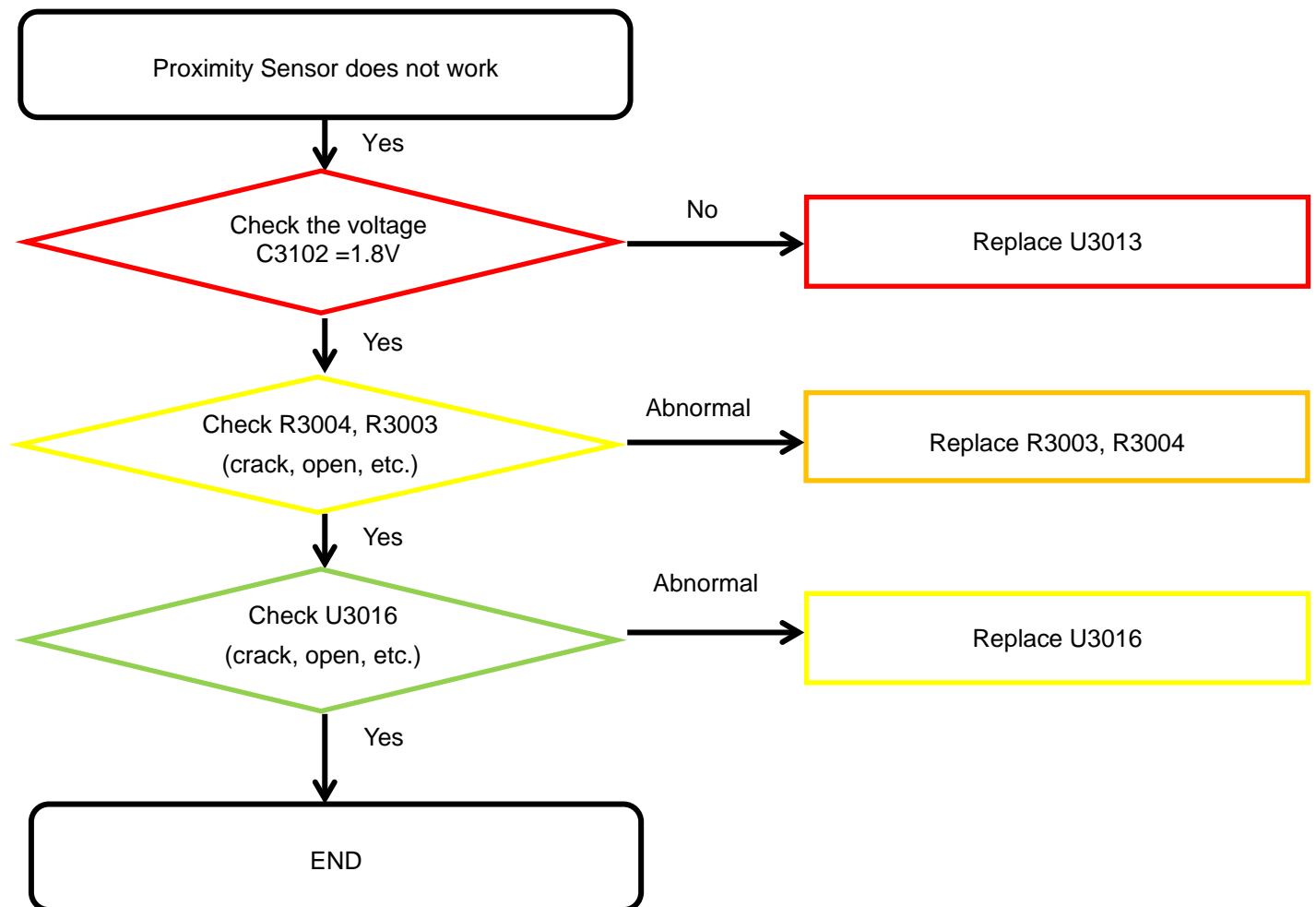
8. Level 3 Repair

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



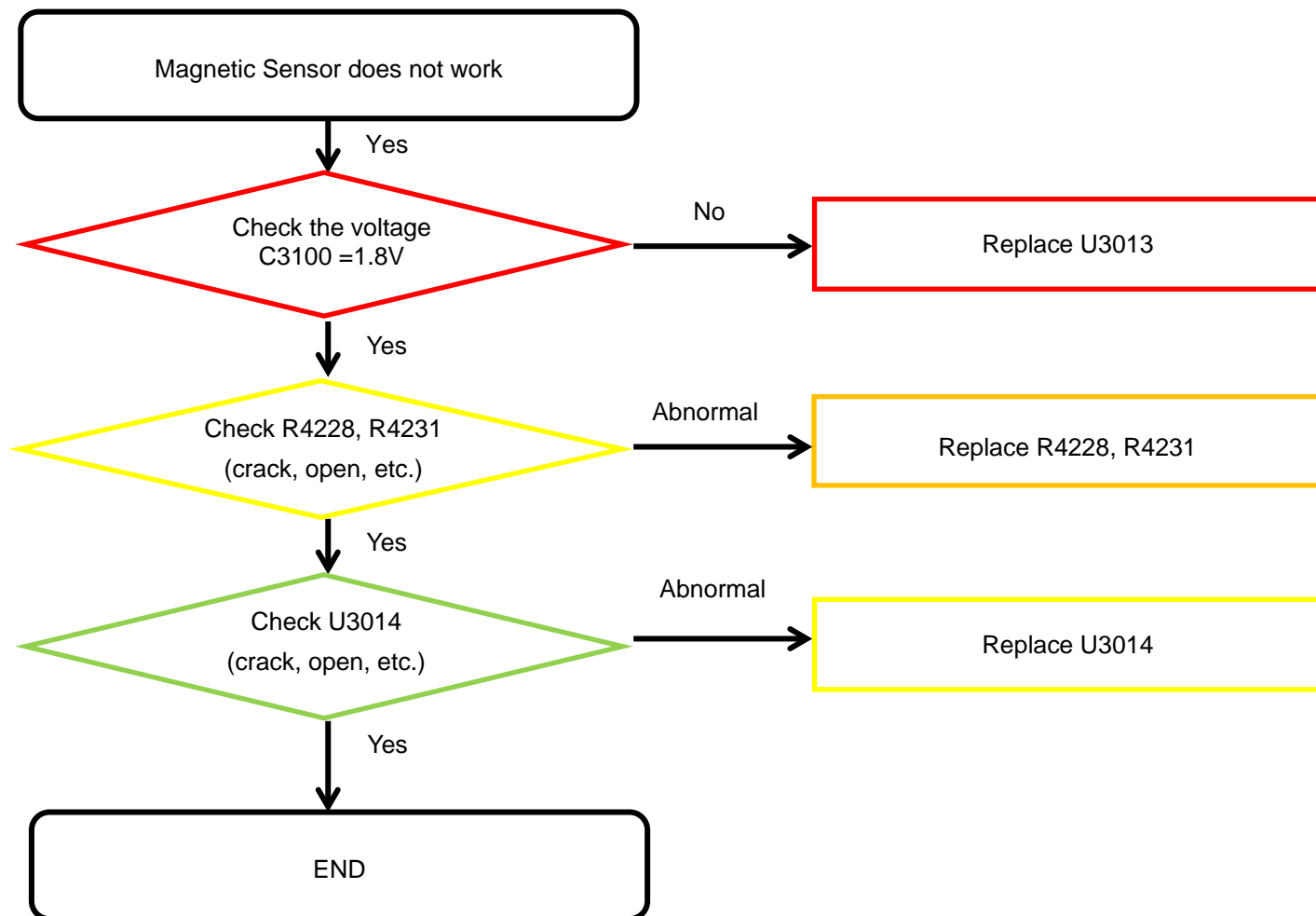
8. Level 3 Repair

8-4-7-2. Proximity sensor



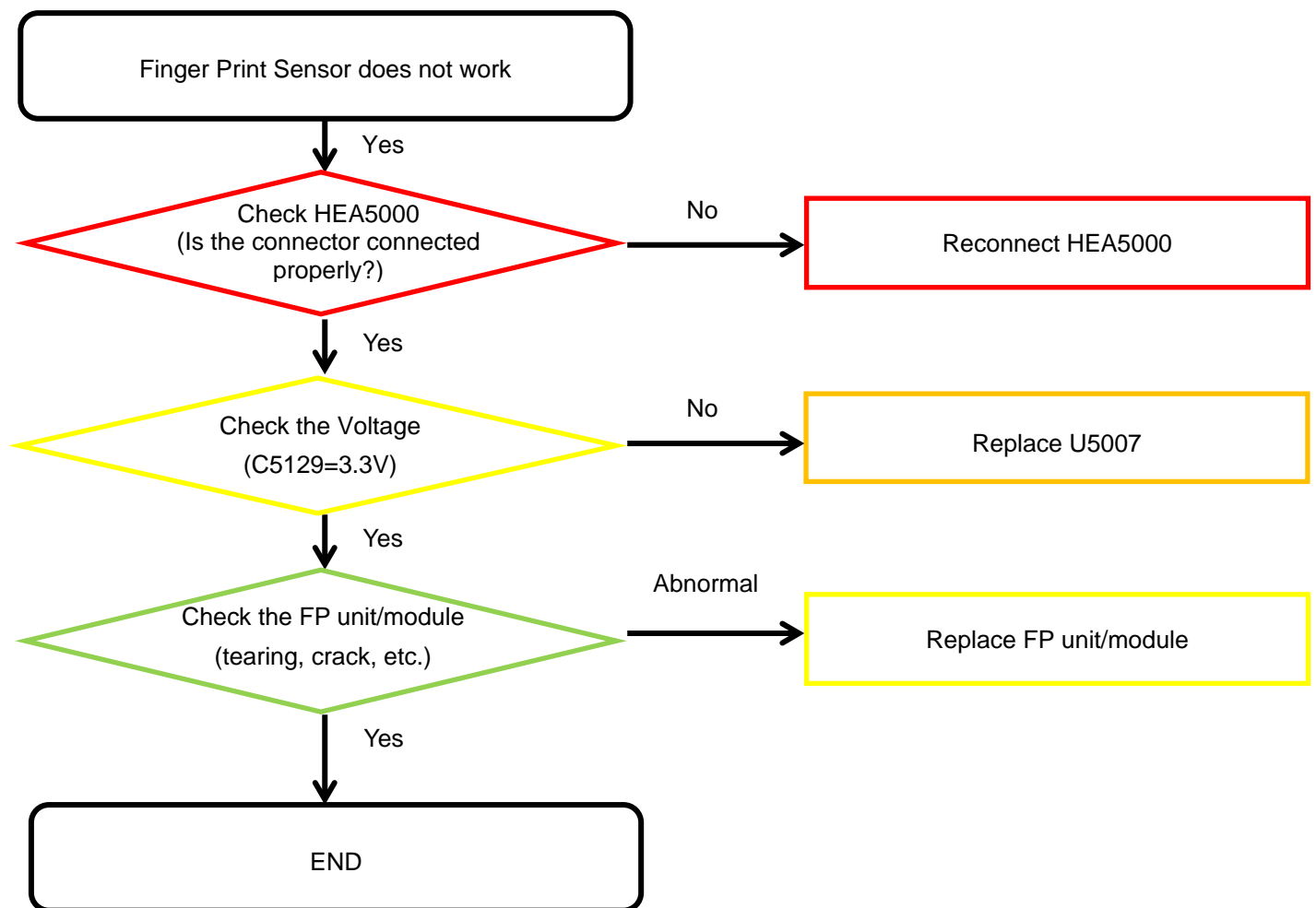
8. Level 3 Repair

8-4-7-3. Magnetic sensor



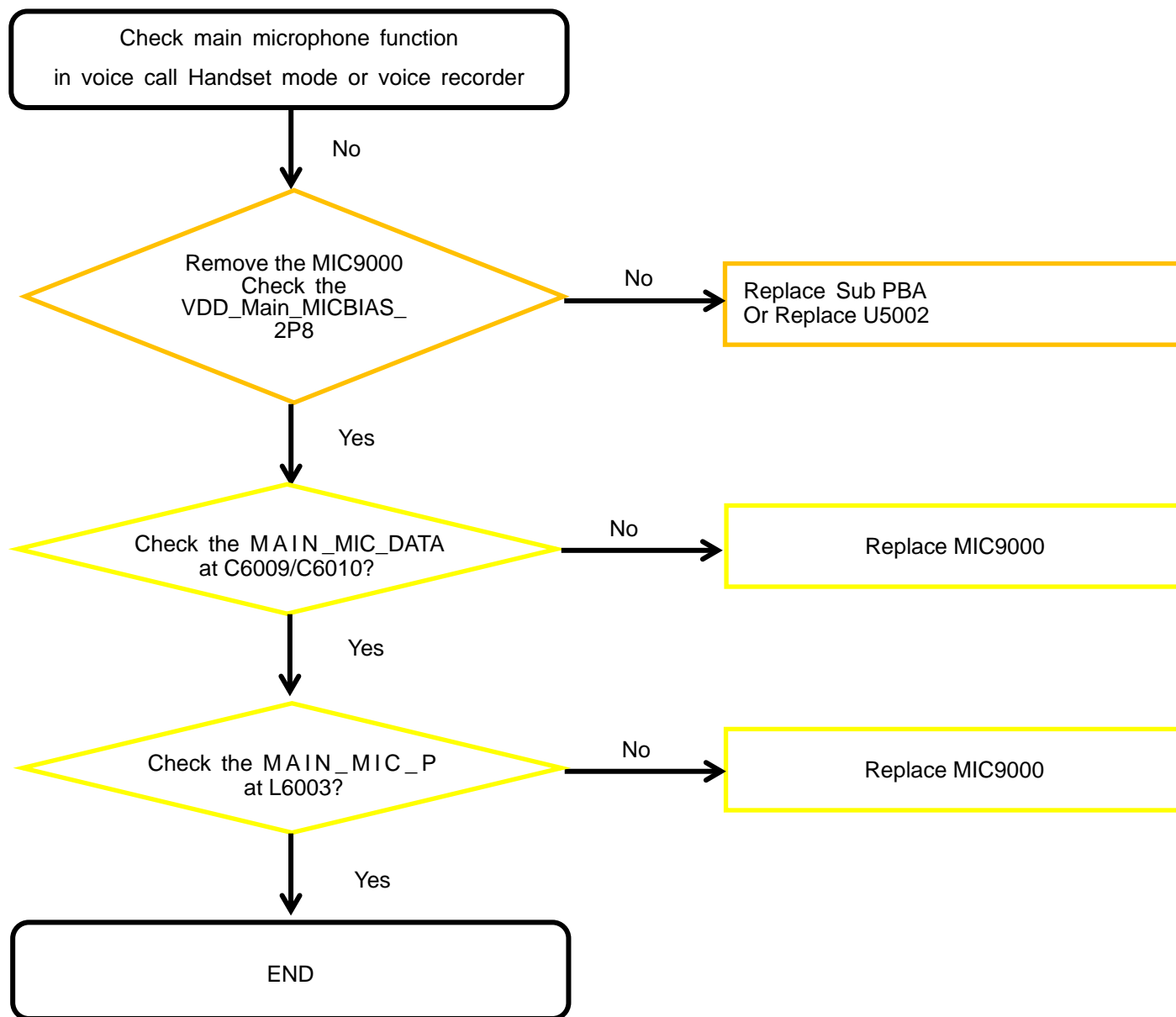
8. Level 3 Repair

8-4-7-4. Finger Print sensor



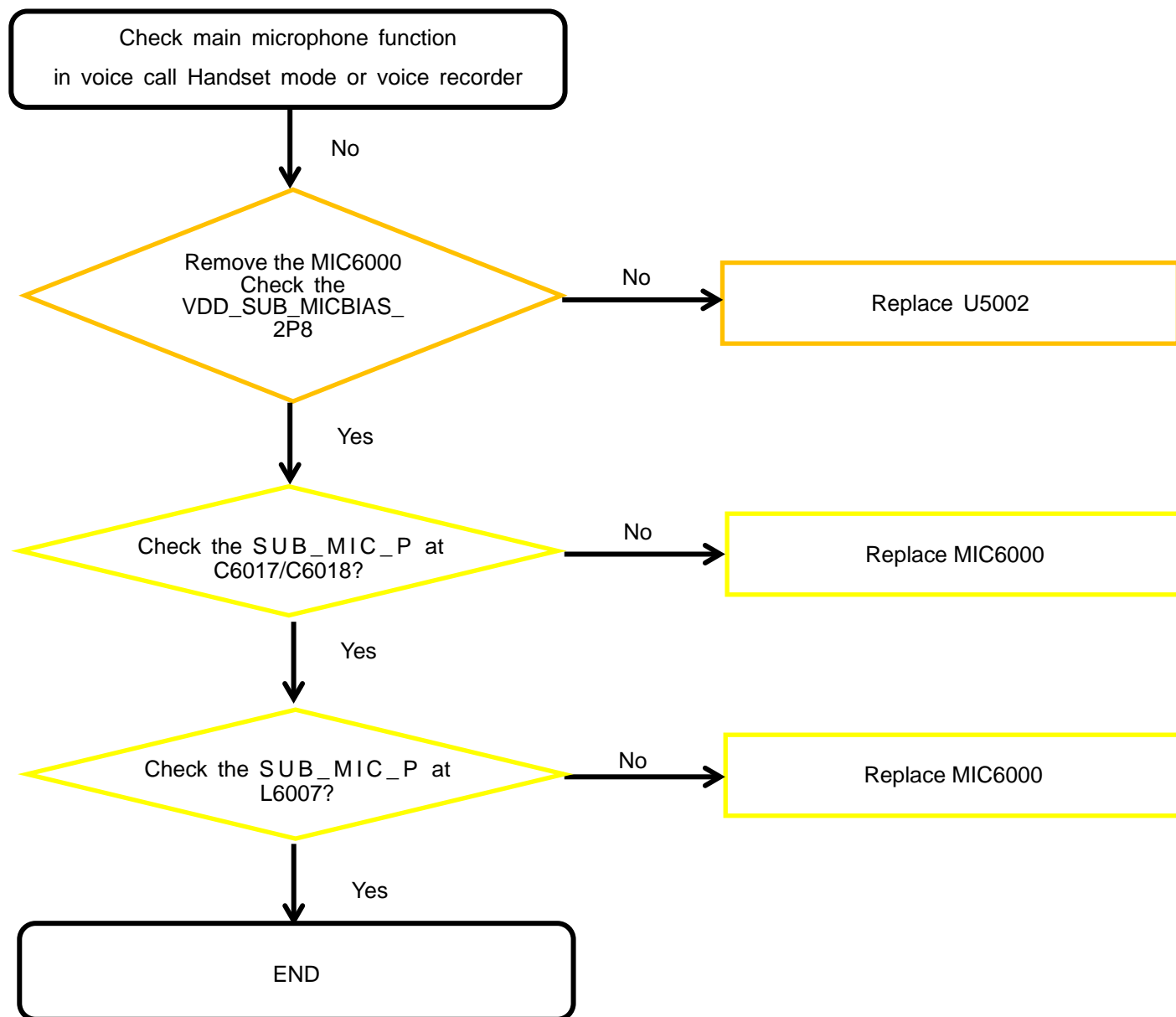
8. Level 3 Repair

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



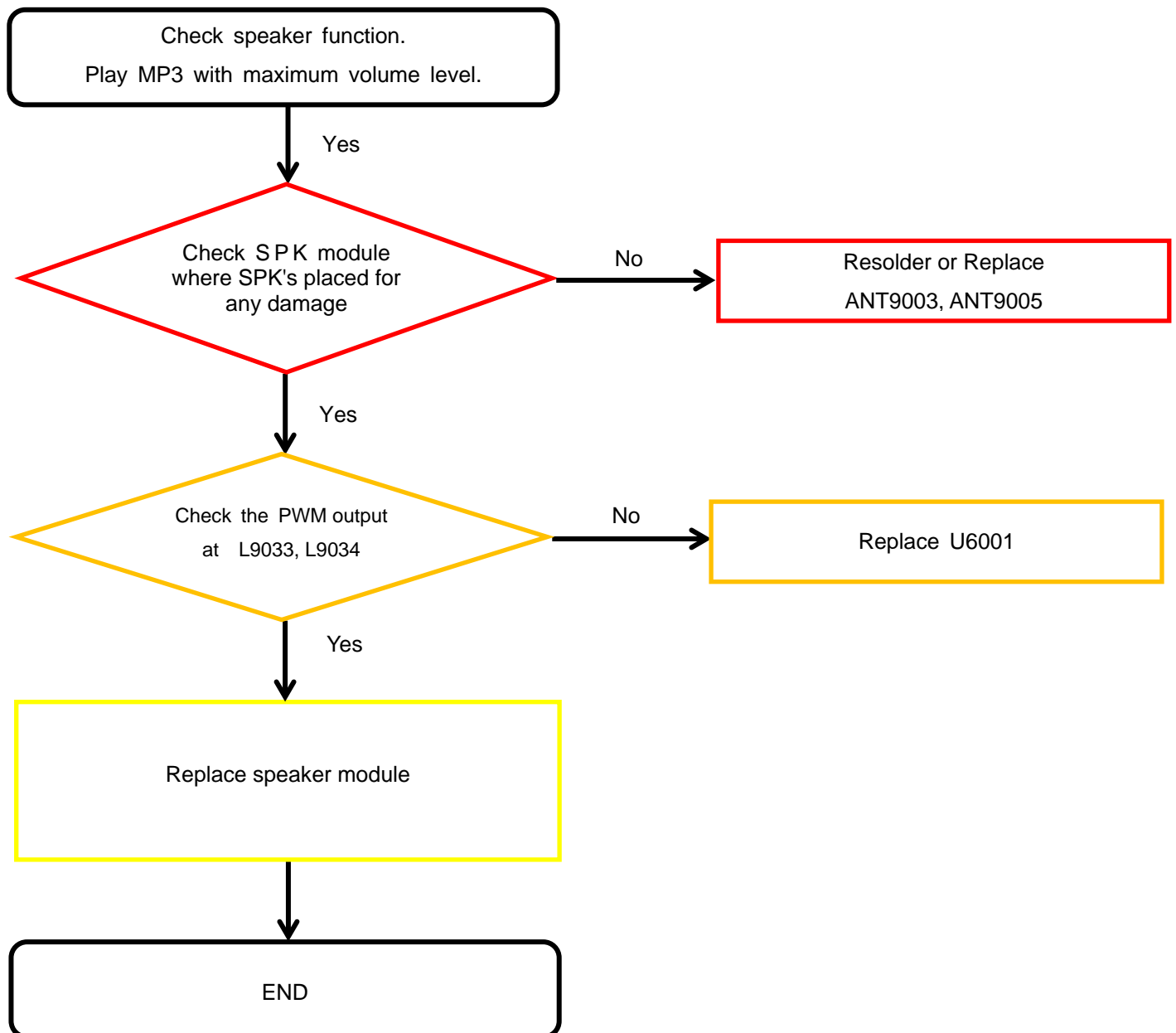
8. Level 3 Repair

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



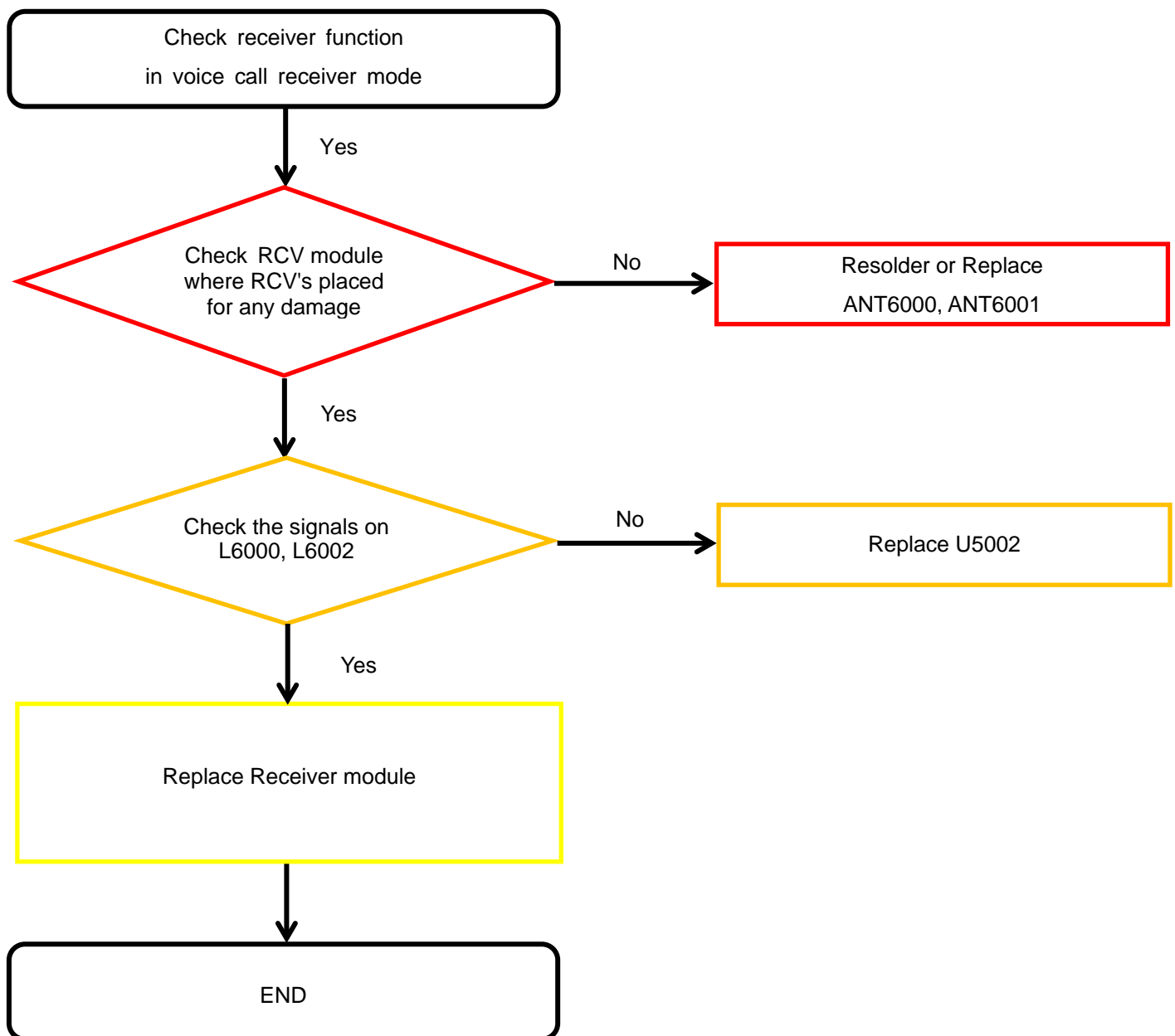
8. Level 3 Repair

8-4-9. Speaker Part



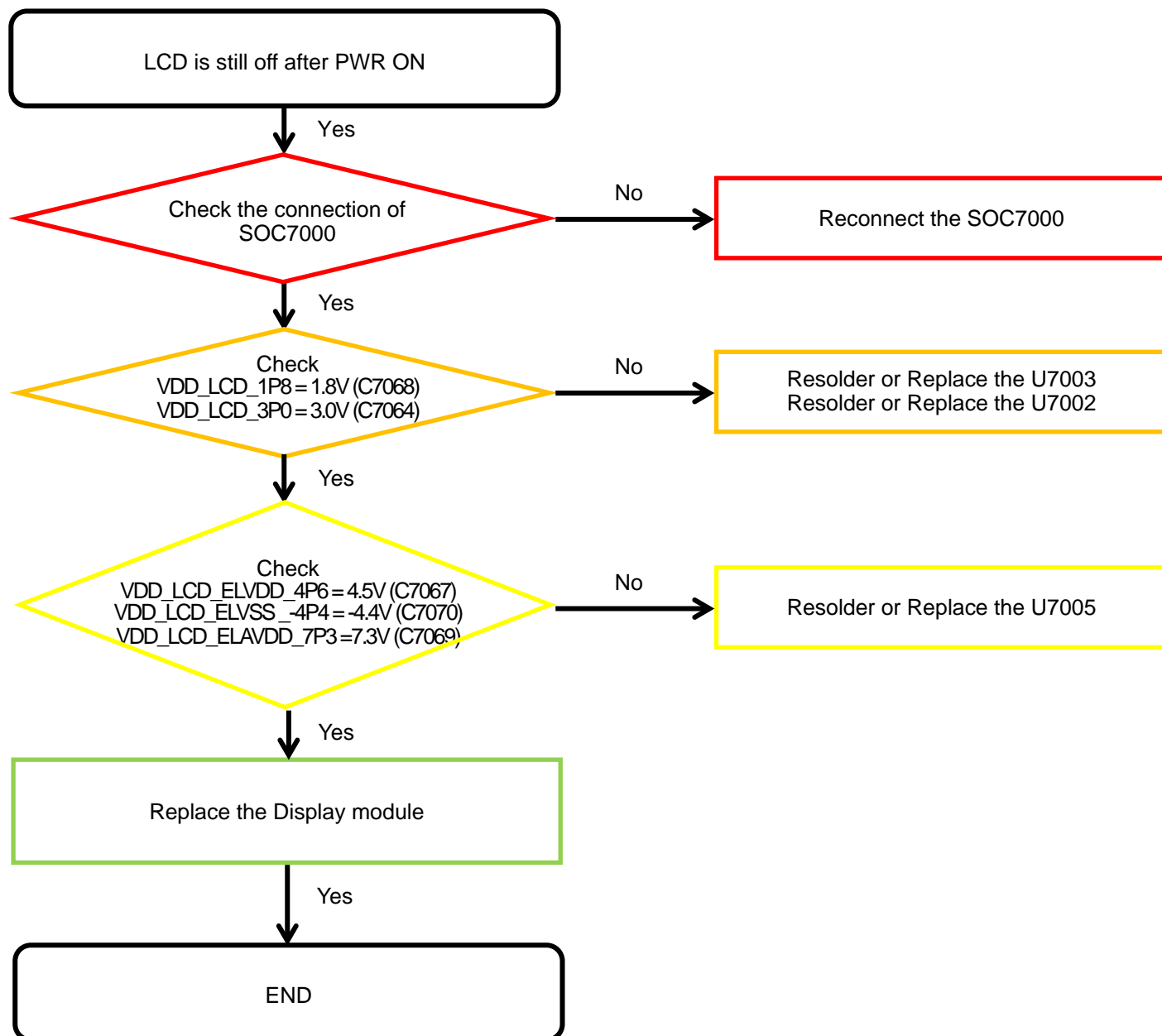
8. Level 3 Repair

8-4-10. Receiver Part



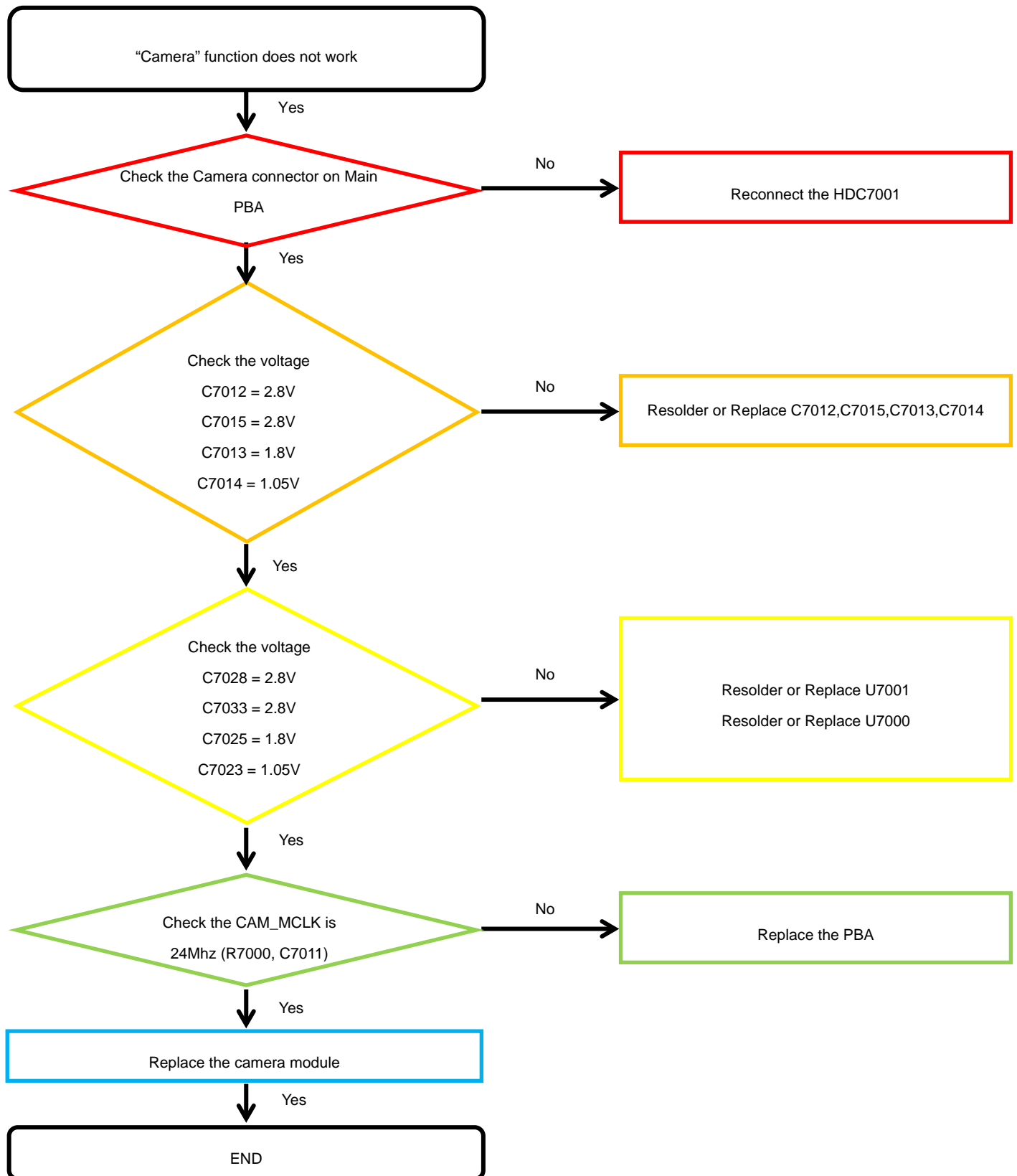
8. Level 3 Repair

8-4-11. Display



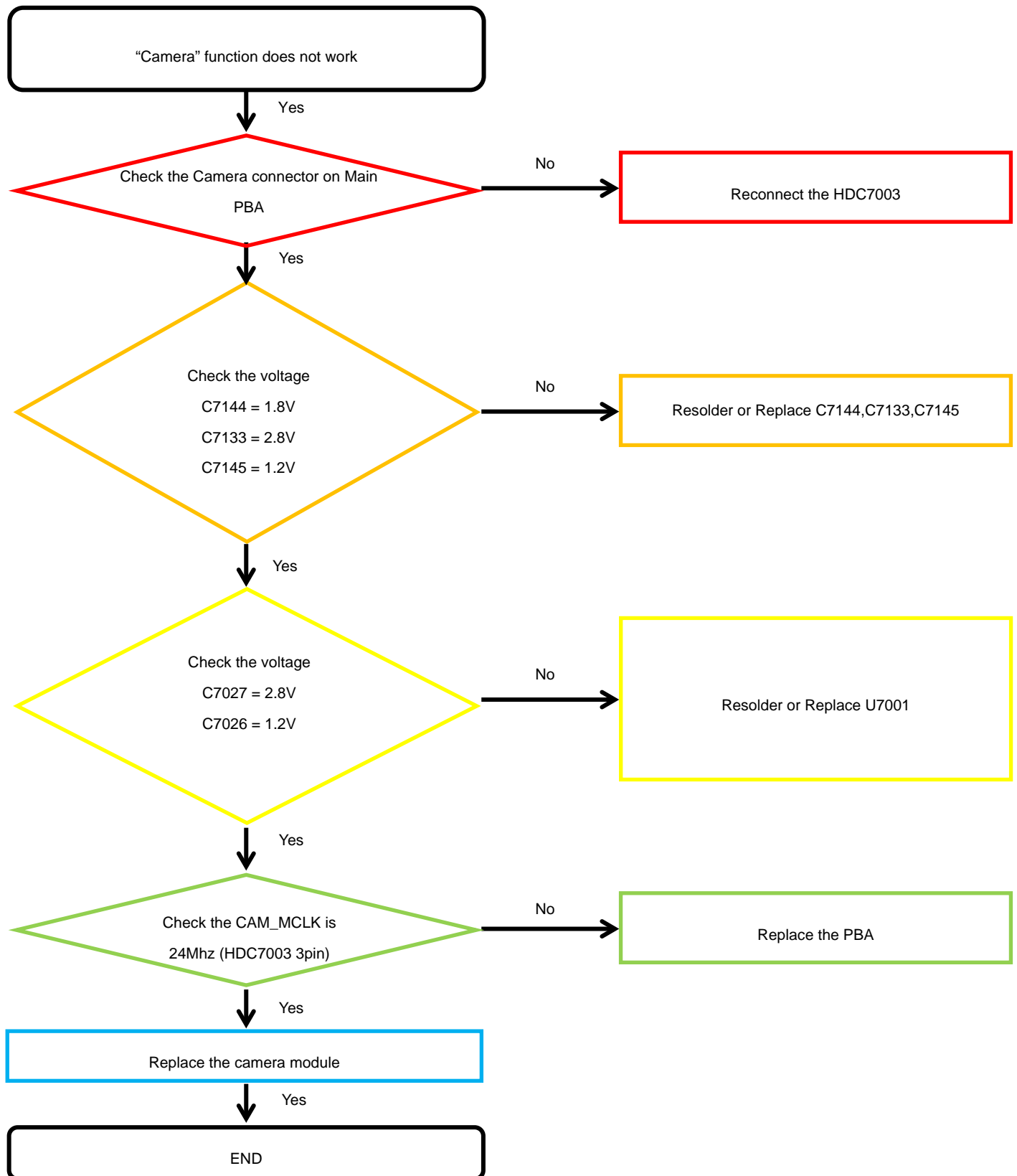
8. Level 3 Repair

8-4-12-1. 13M AF Rear CAMERA



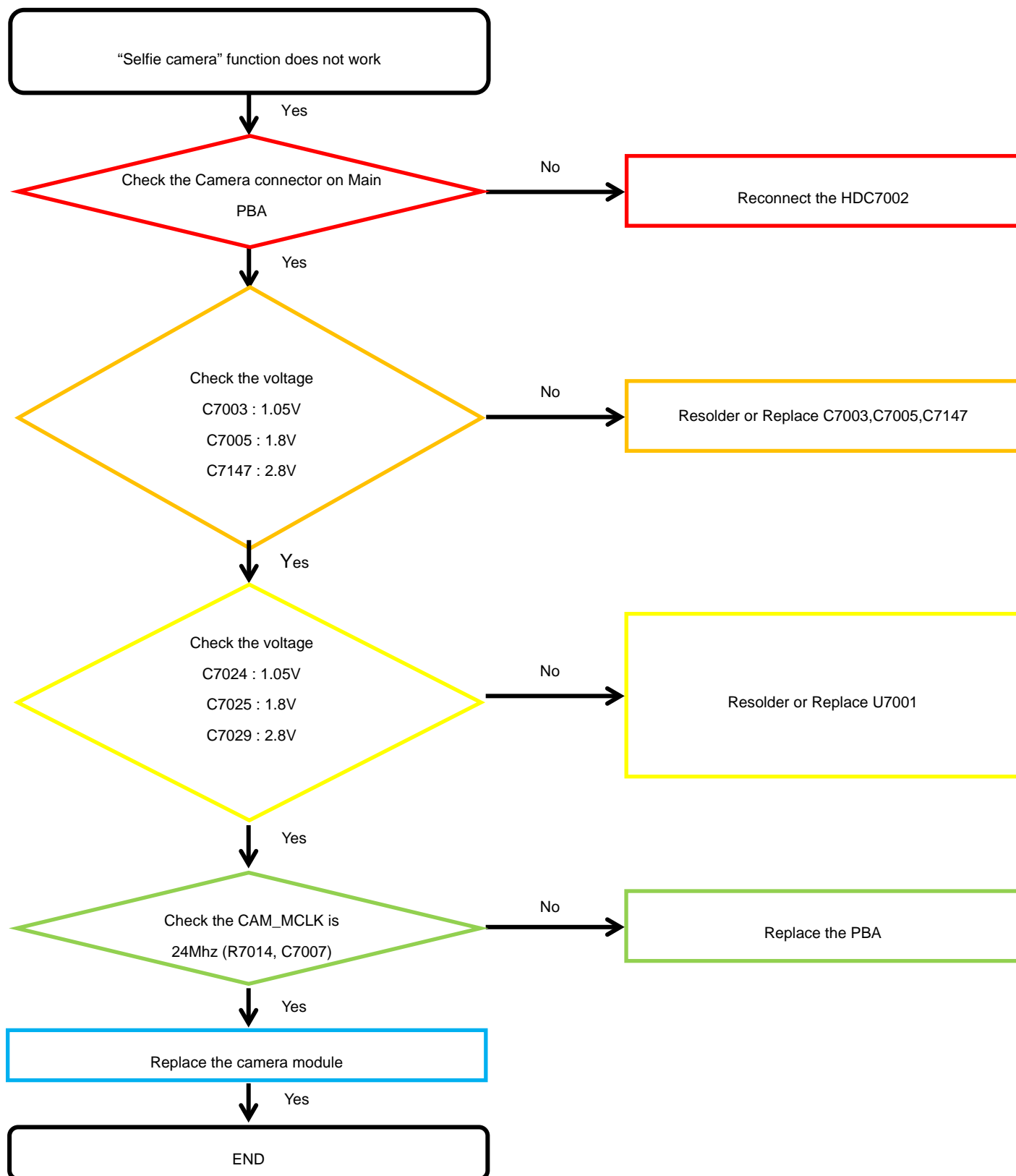
8. Level 3 Repair

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



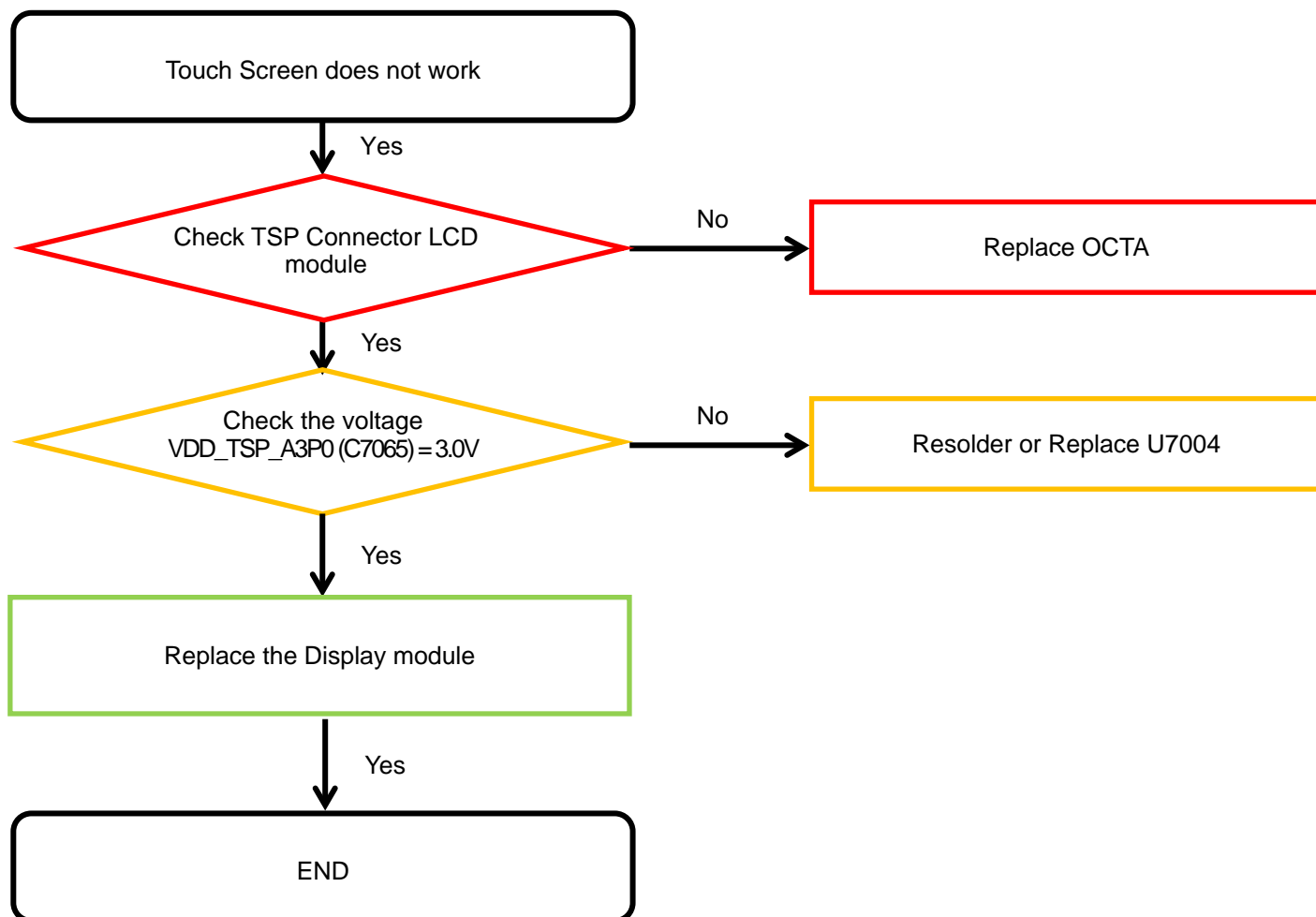
8. Level 3 Repair

8-4-13. 8M FF Front CAMERA



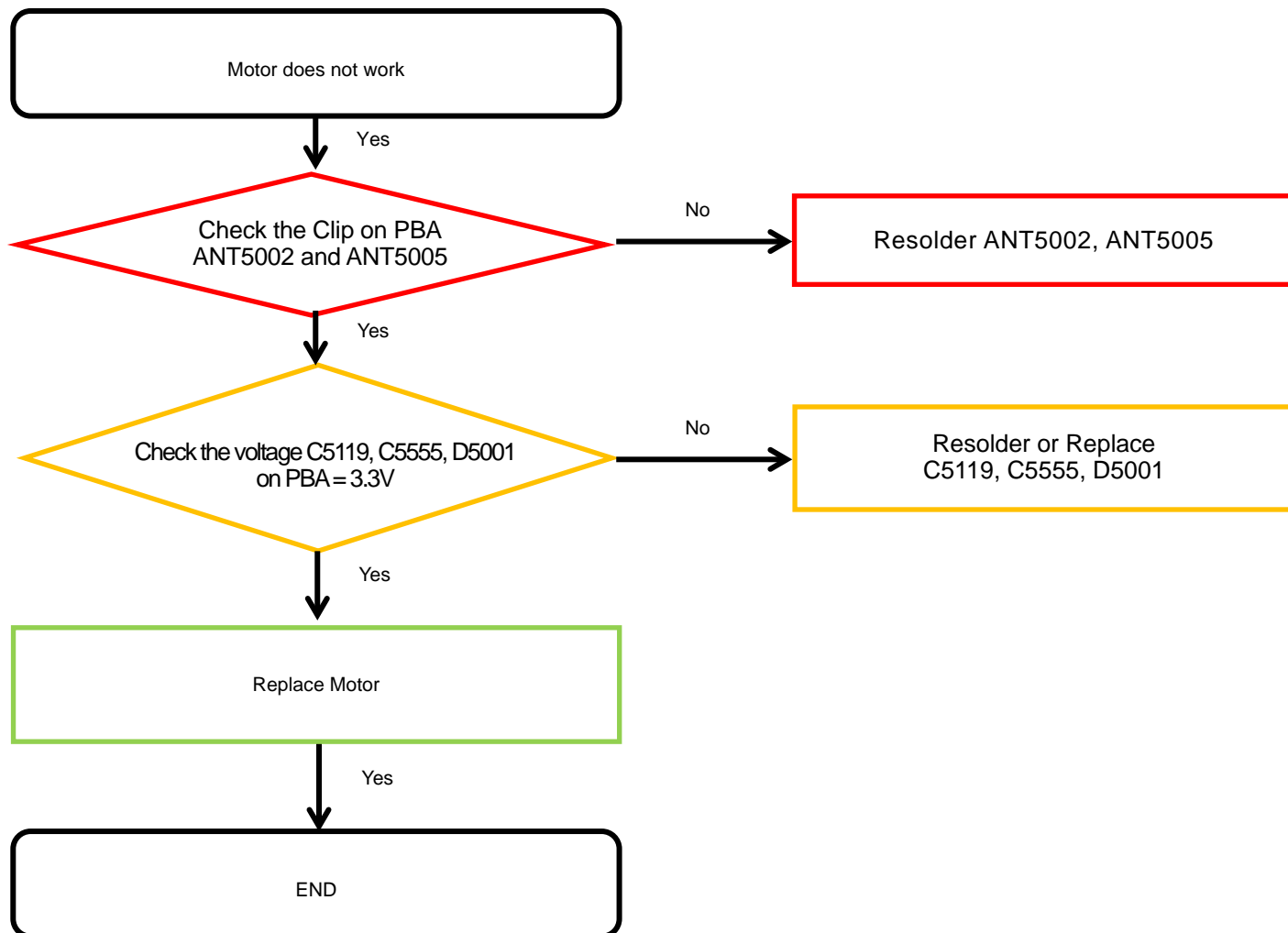
8. Level 3 Repair

8-4-14. TSP



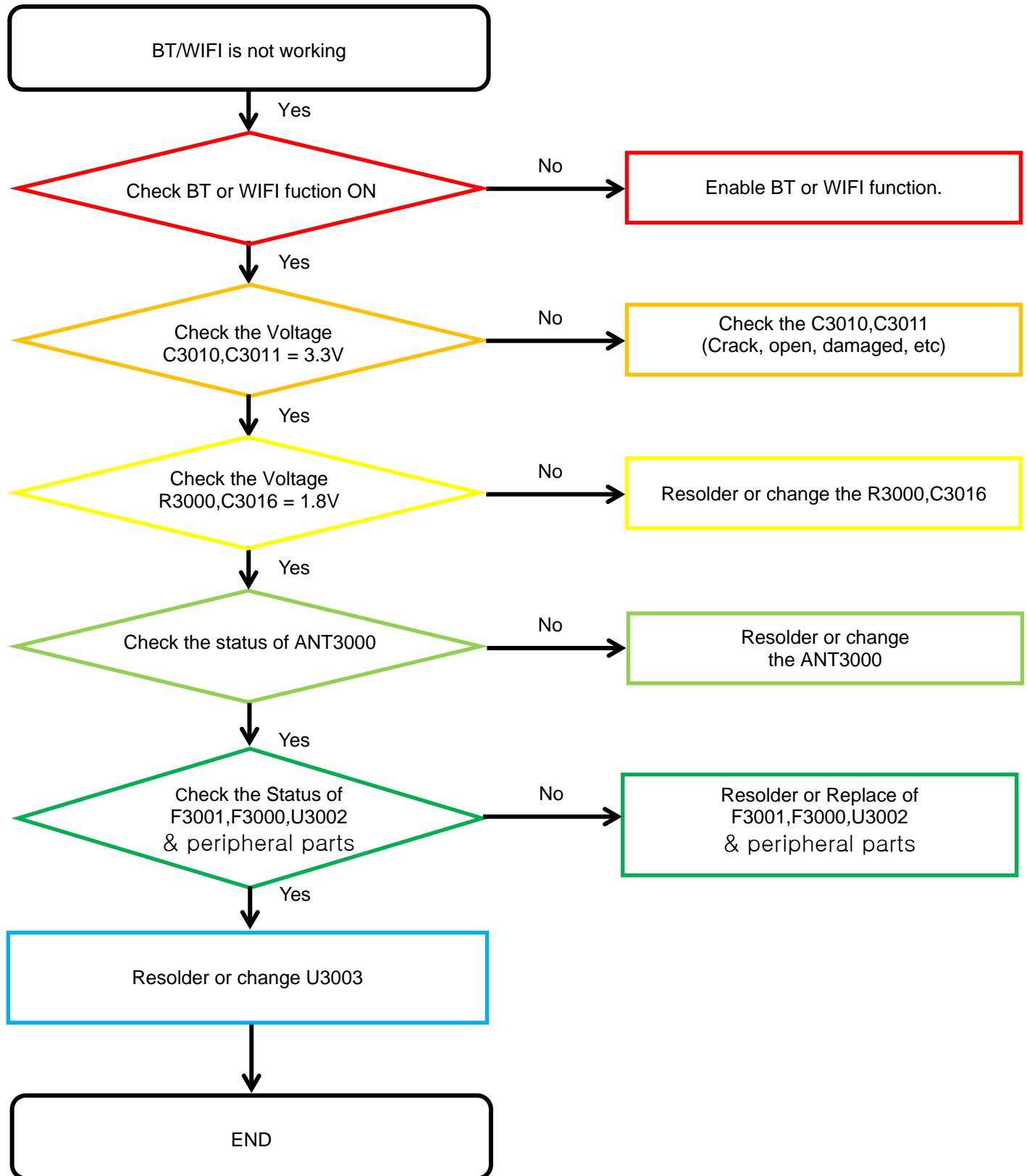
8. Level 3 Repair

8-4-15. Motor



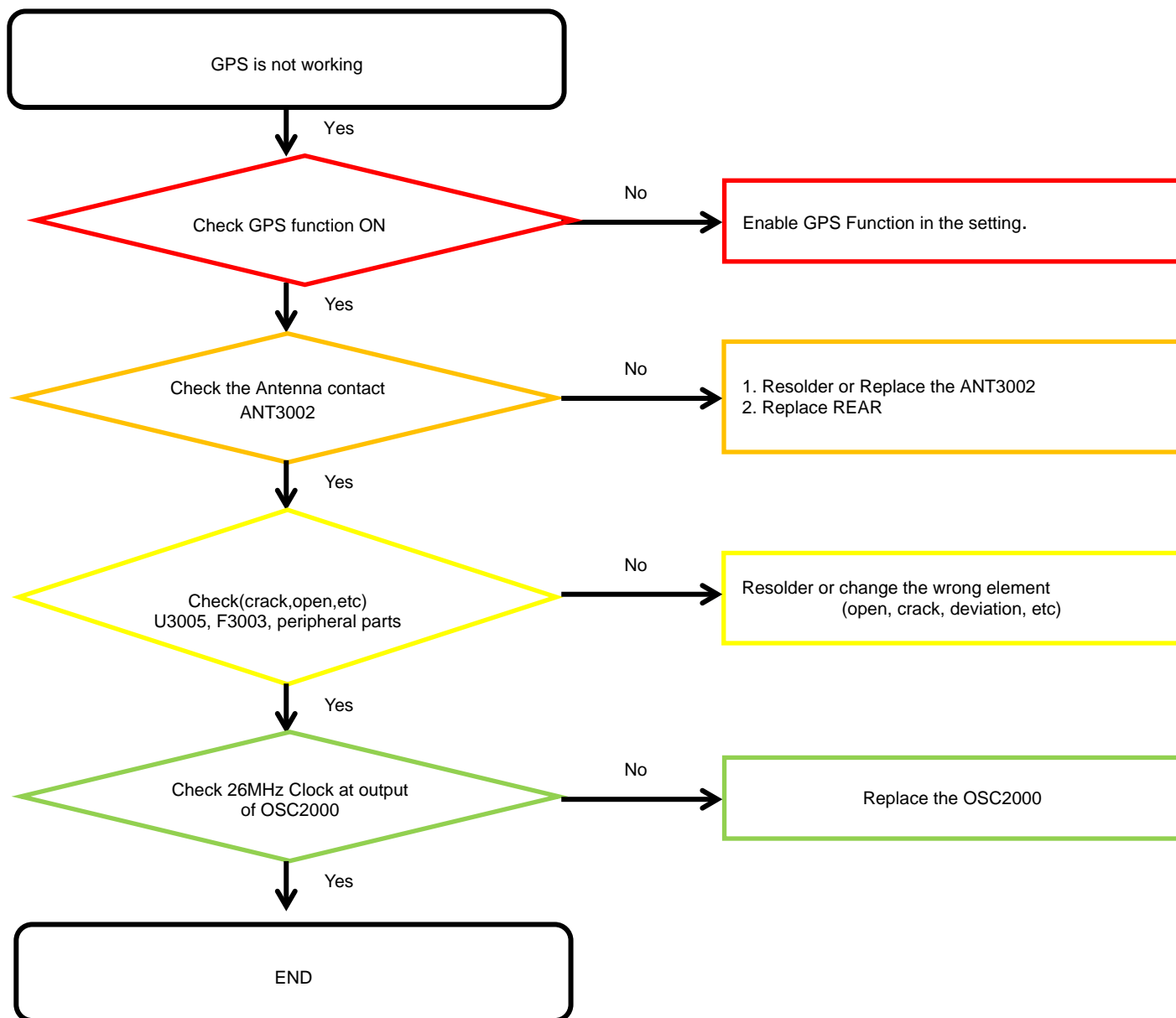
8. Level 3 Repair

8-4-16. BT/WIFI



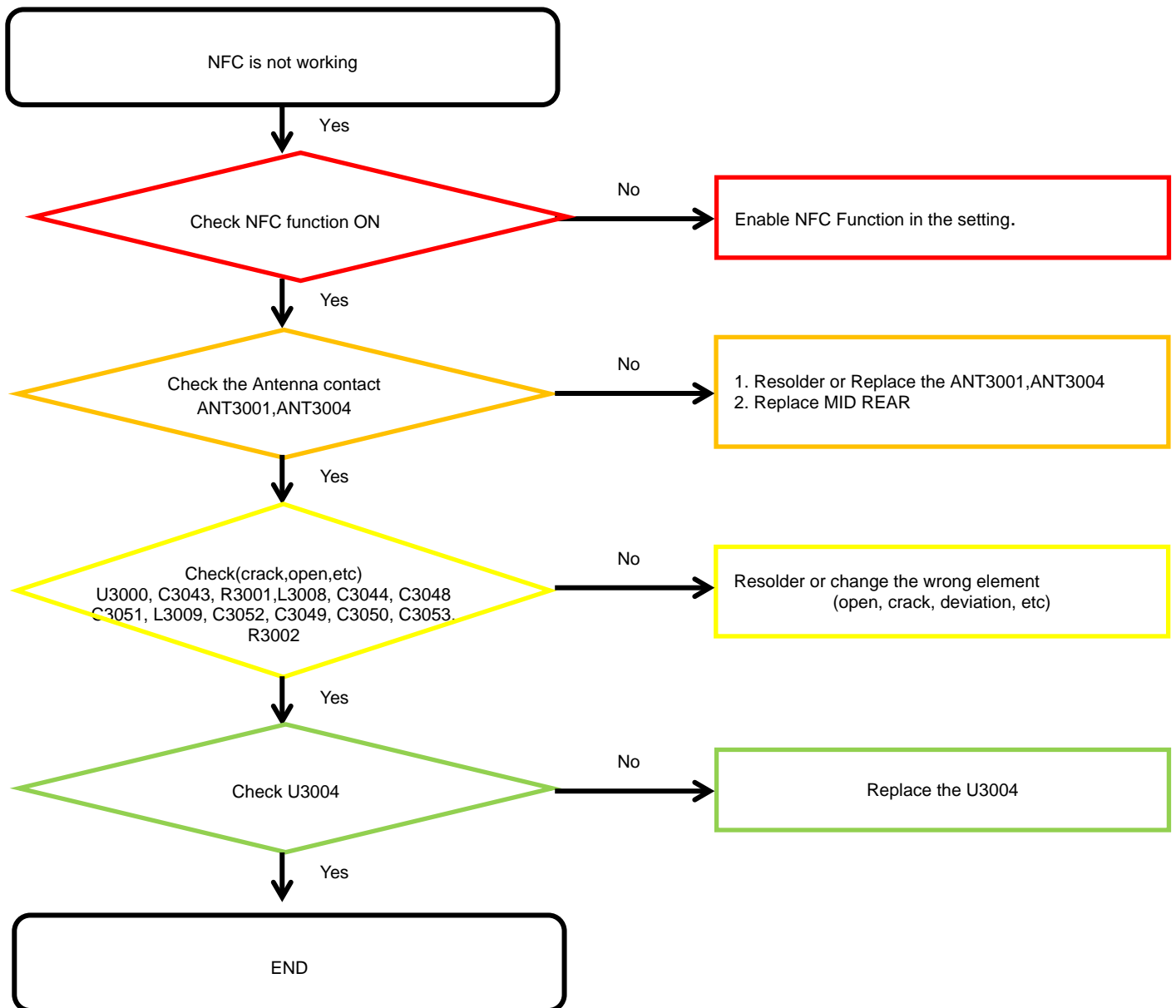
8. Level 3 Repair

8-4-17. GPS



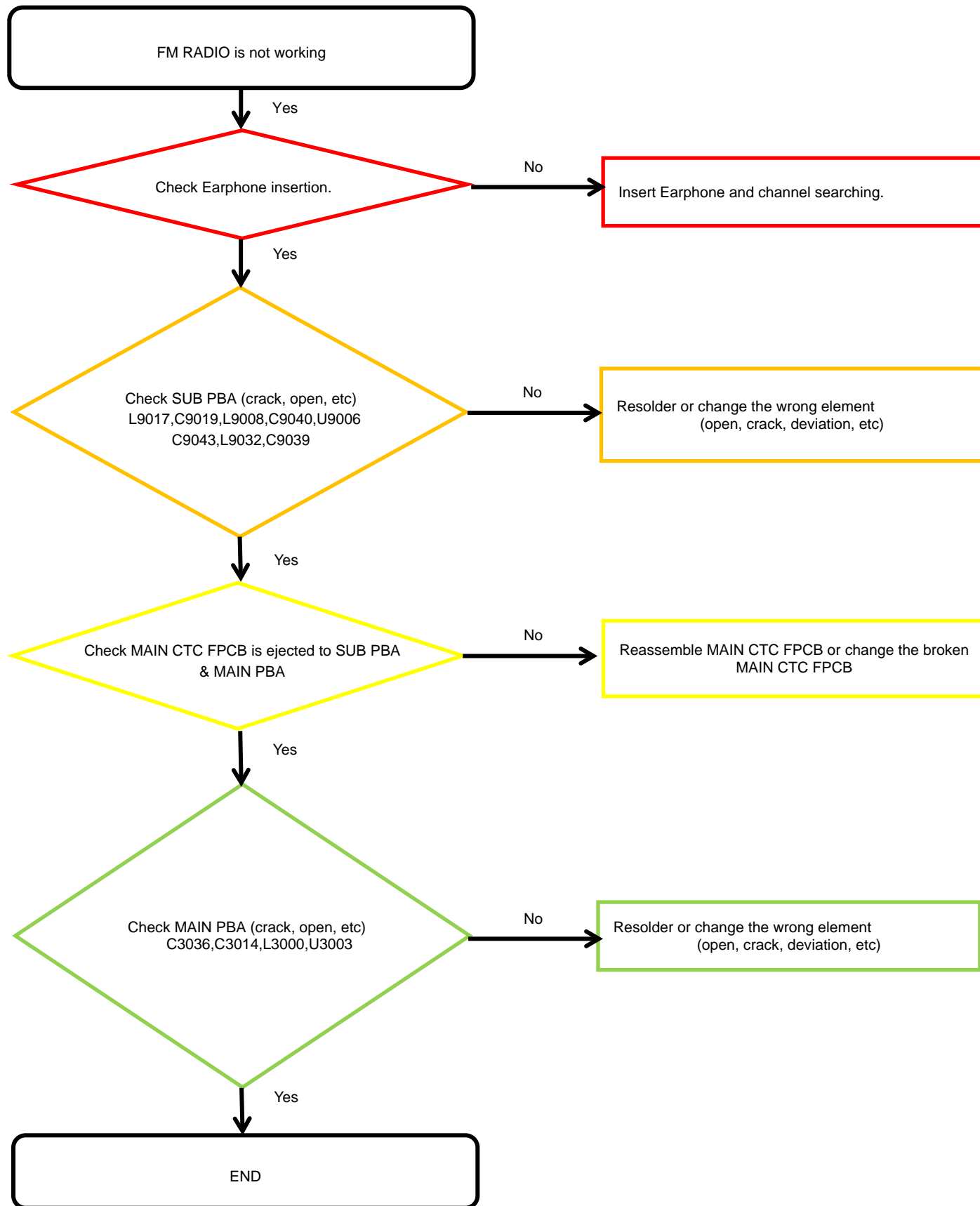
8. Level 3 Repair

8-4-18. NFC [SM-A205FN/GN]



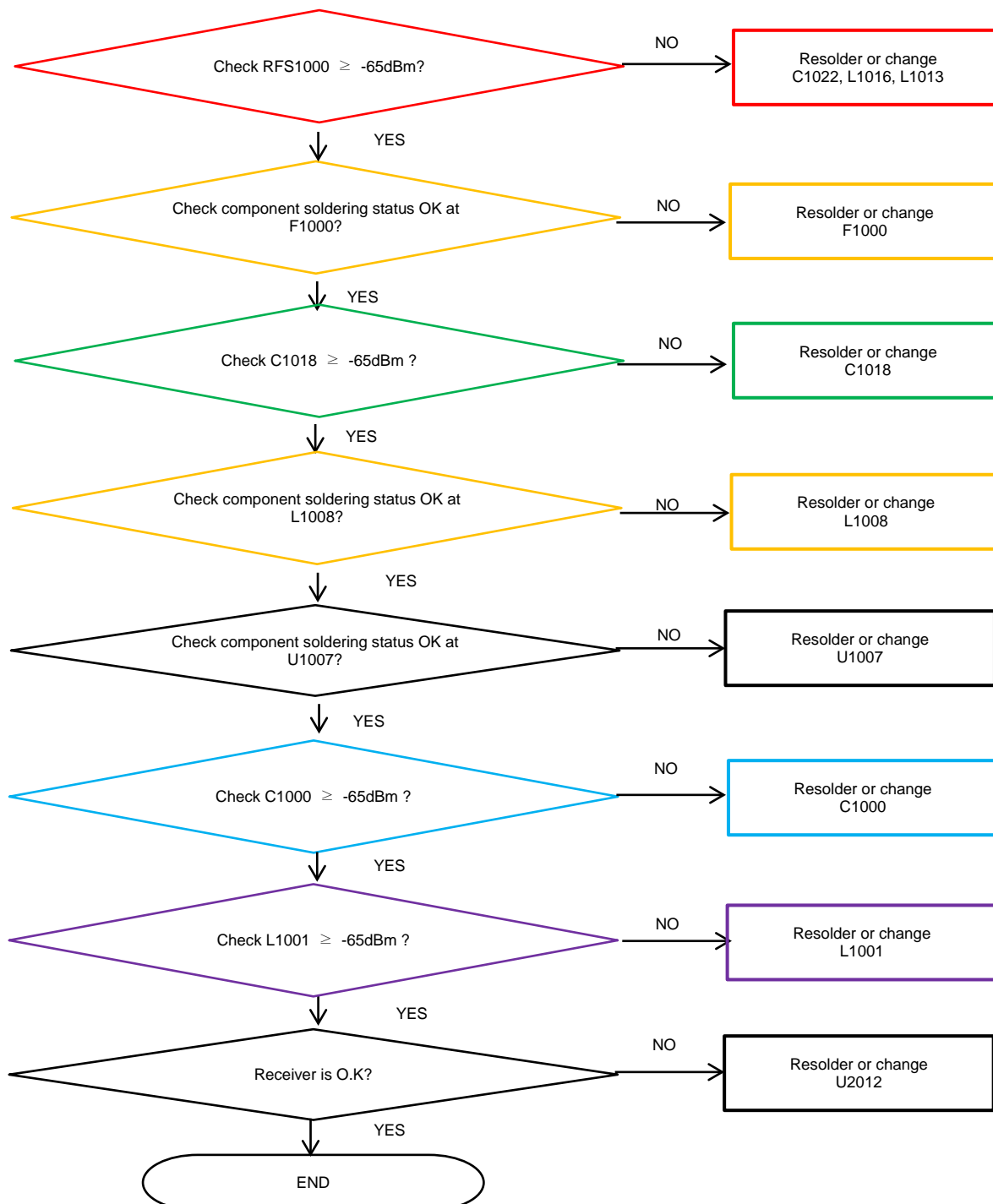
8. Level 3 Repair

8-4-19. FM RADIO



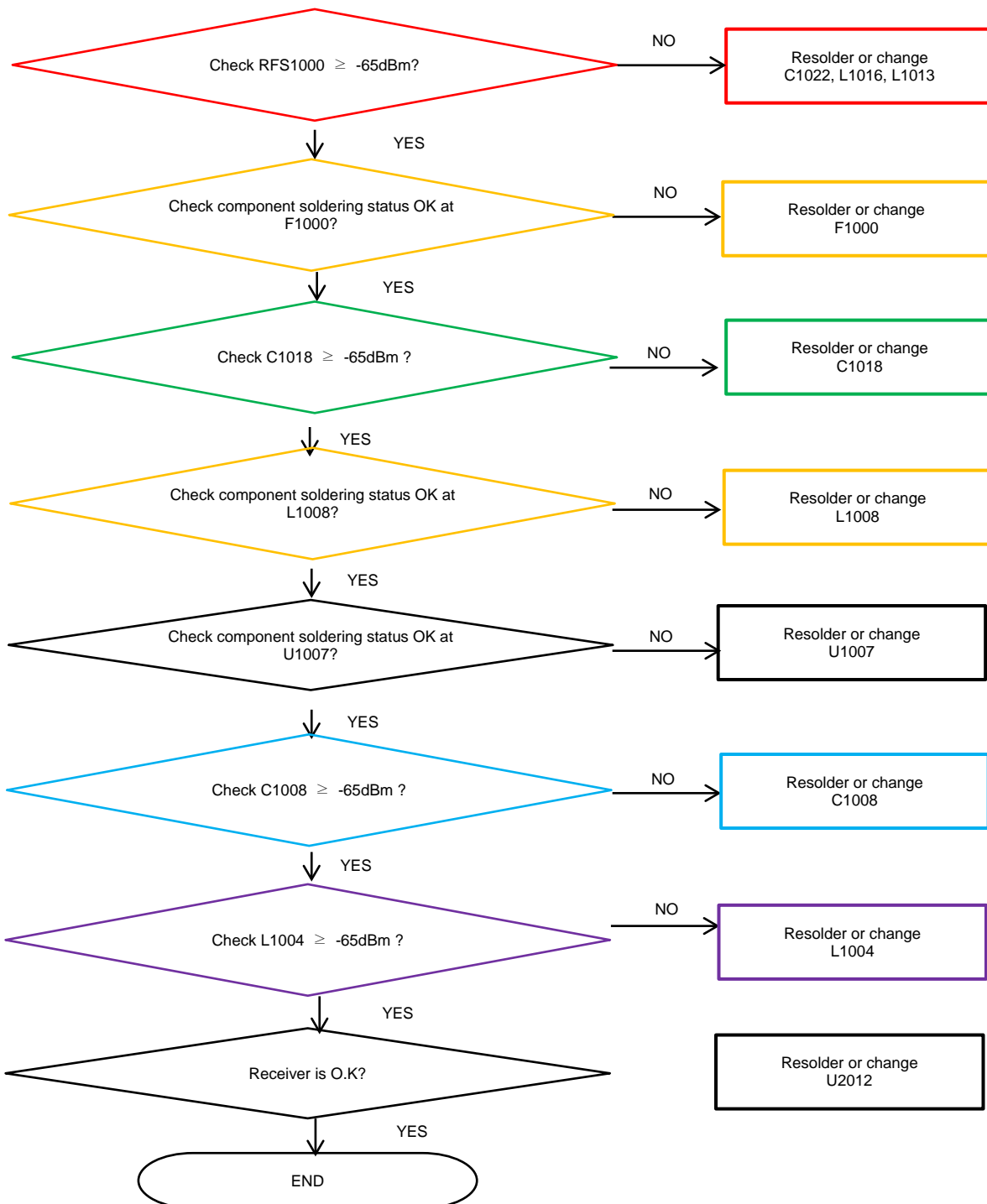
8. Level 3 Repair

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



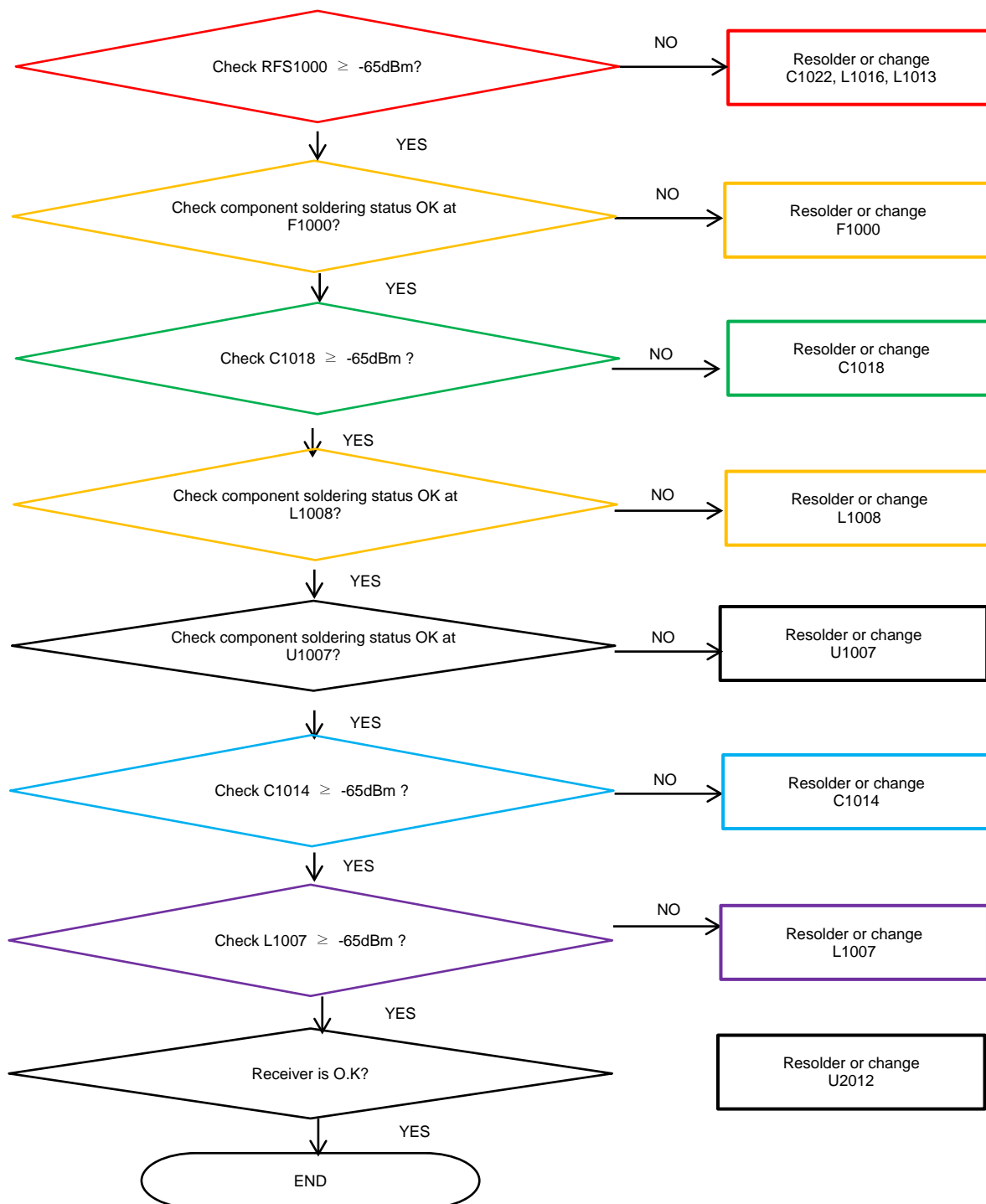
8. Level 3 Repair

8-4-21. WCDMA B2 / PCS RX, LTEB2 [SM-A205G/GN]



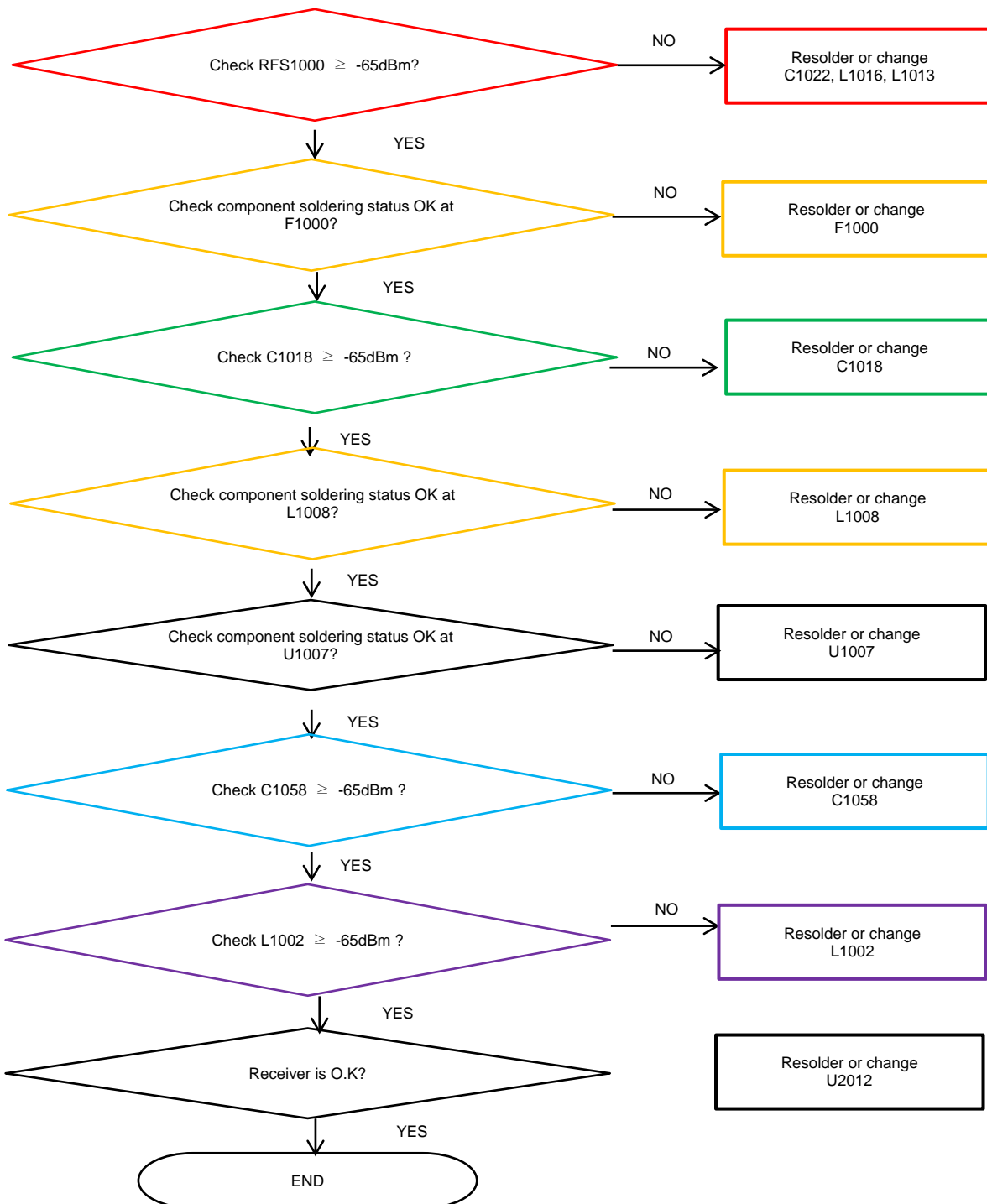
8. Level 3 Repair

8-4-22. LTE B3 / DCS RX



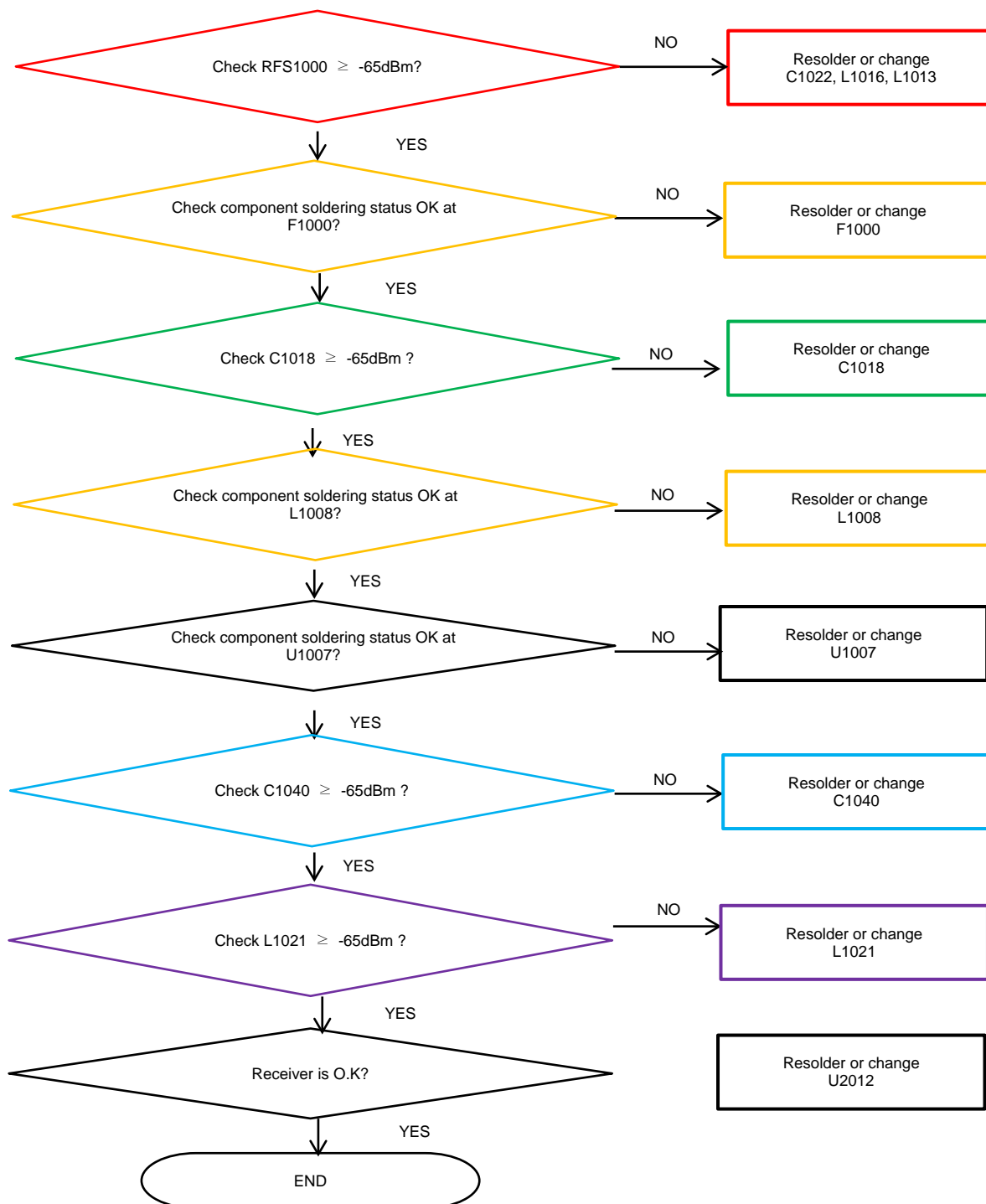
8. Level 3 Repair

8-4-23. LTE B4(B66) / WCDMA B4 RX [SM-A205G/GN]



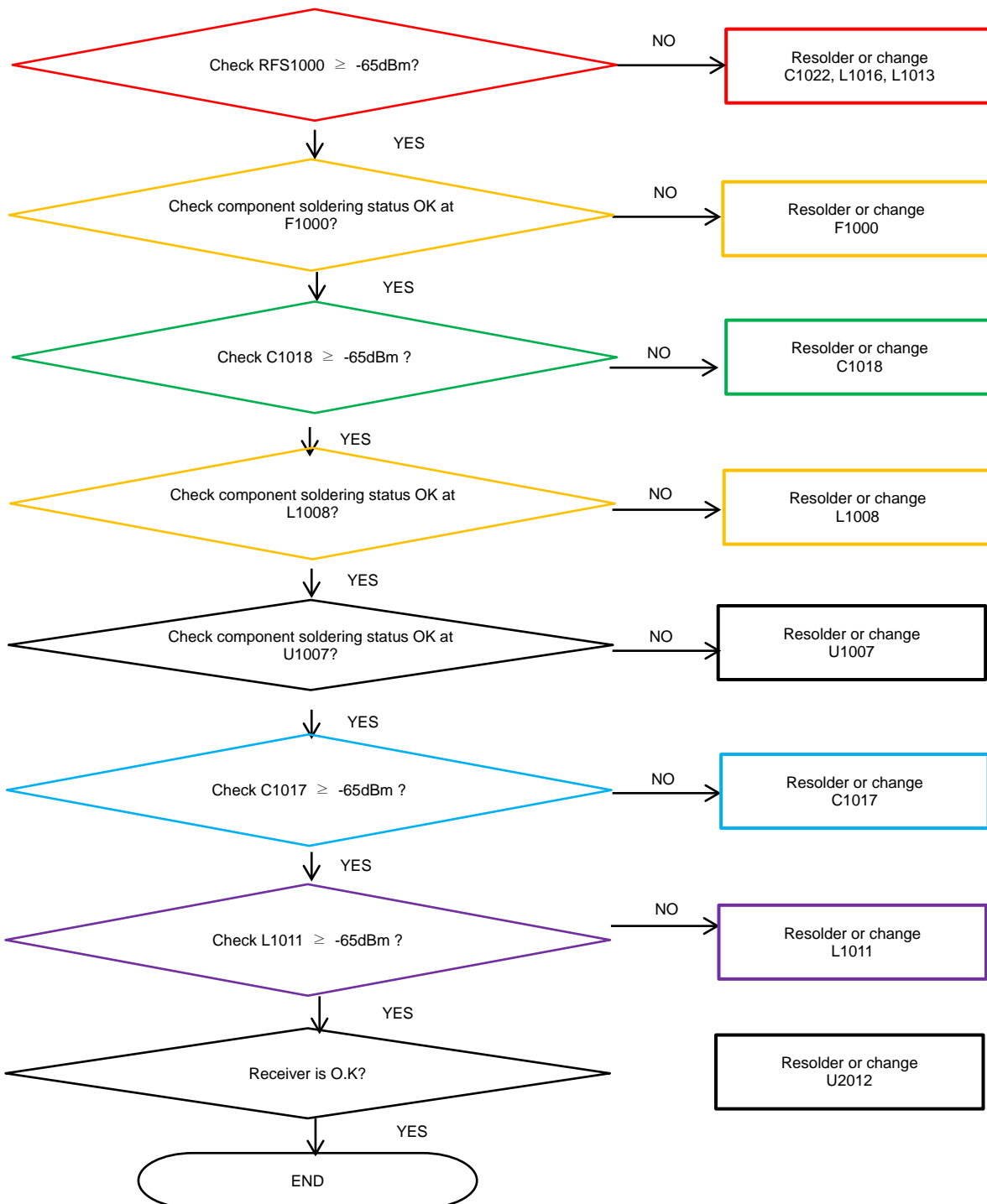
8. Level 3 Repair

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



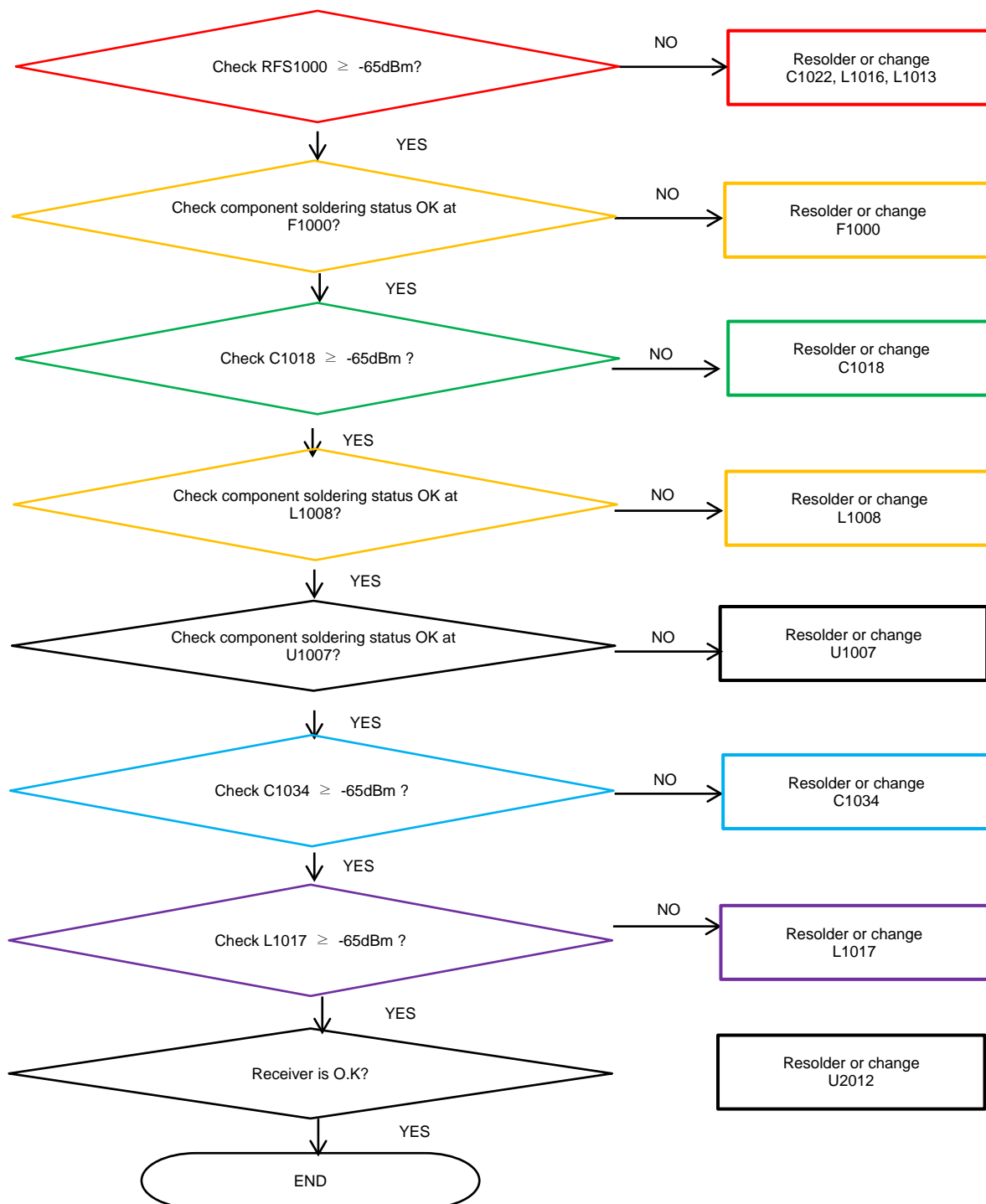
8. Level 3 Repair

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



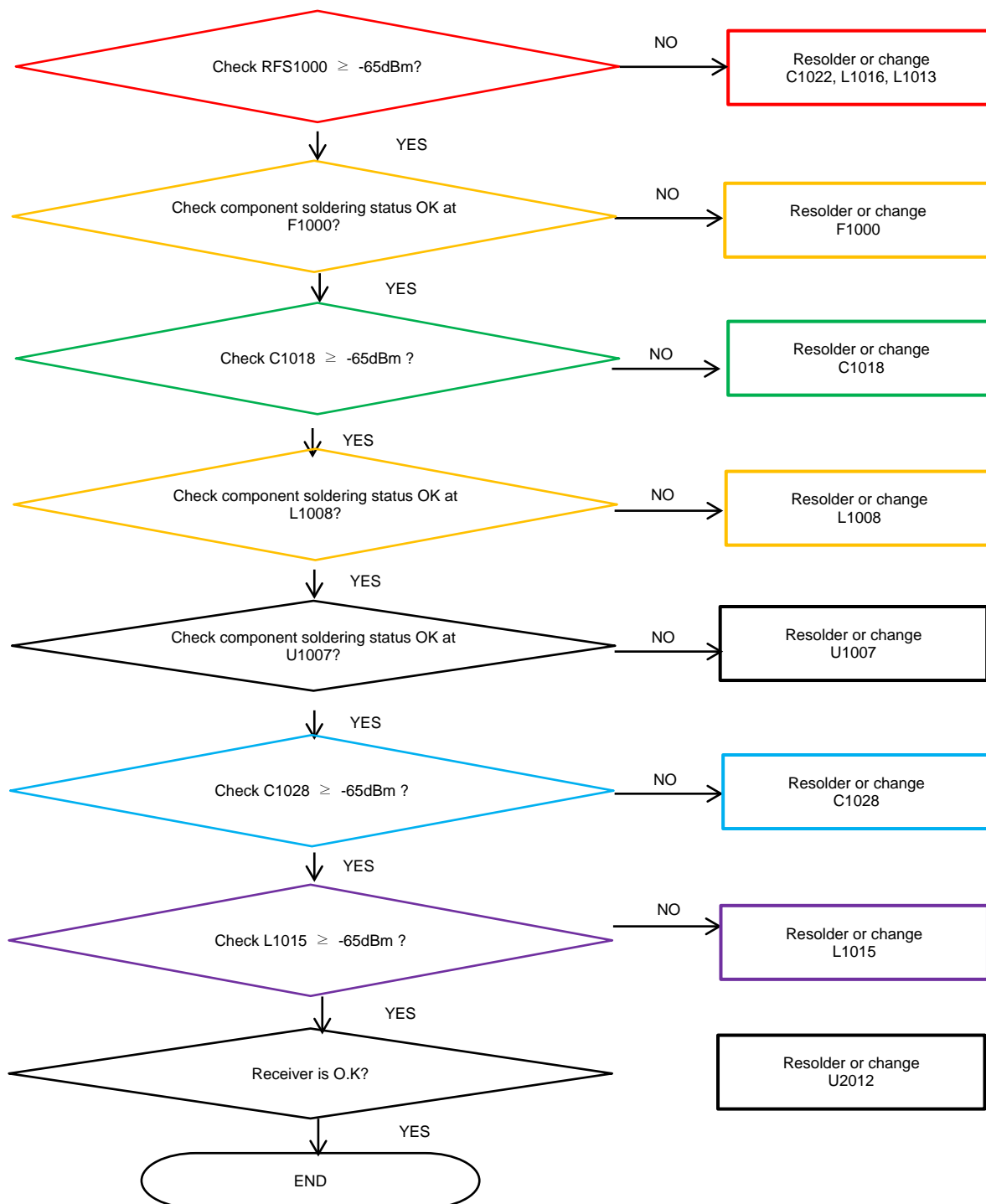
8. Level 3 Repair

8-4-26. LTE B20 RX



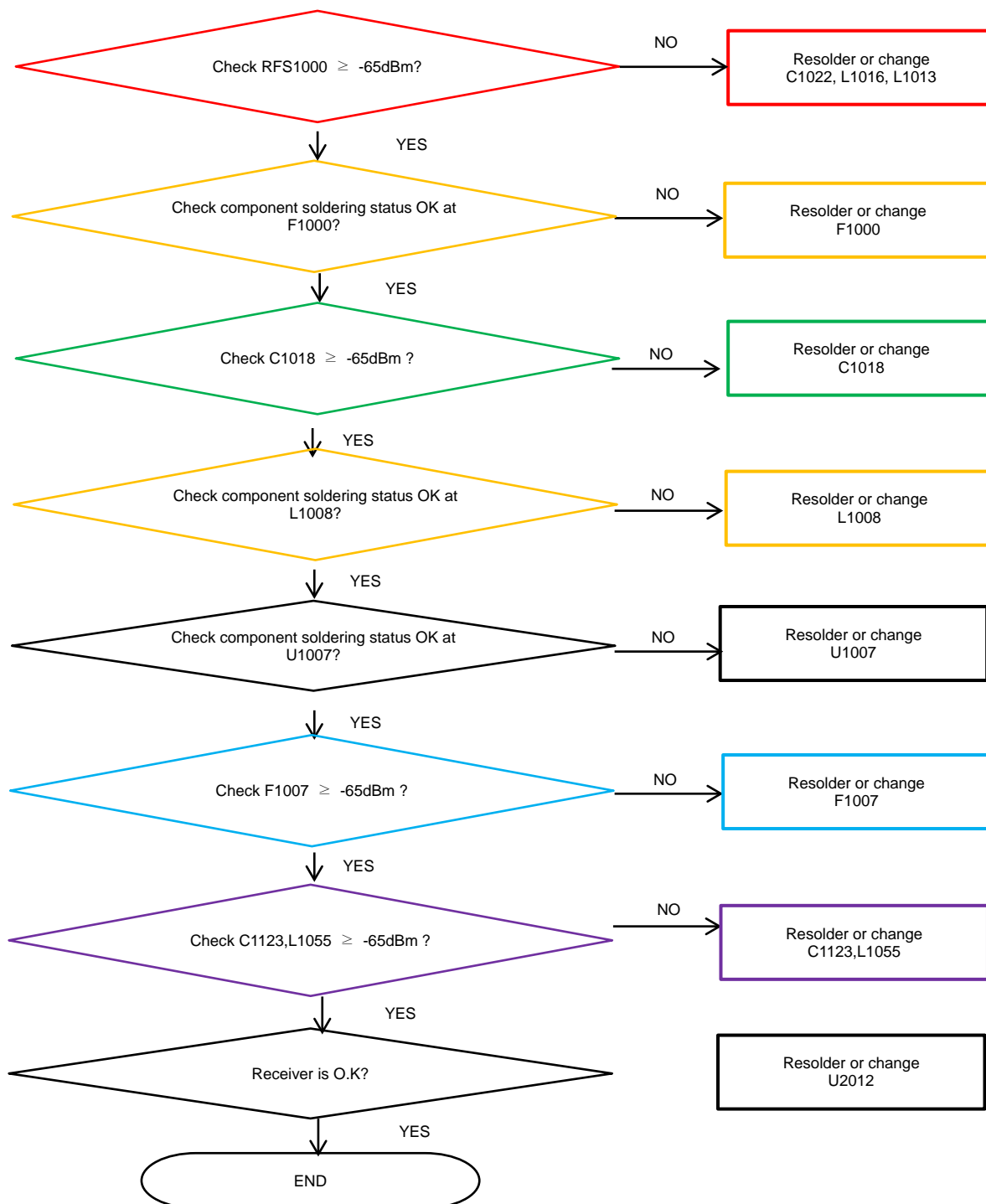
8. Level 3 Repair

8-4-27. LTE B12, 17 RX



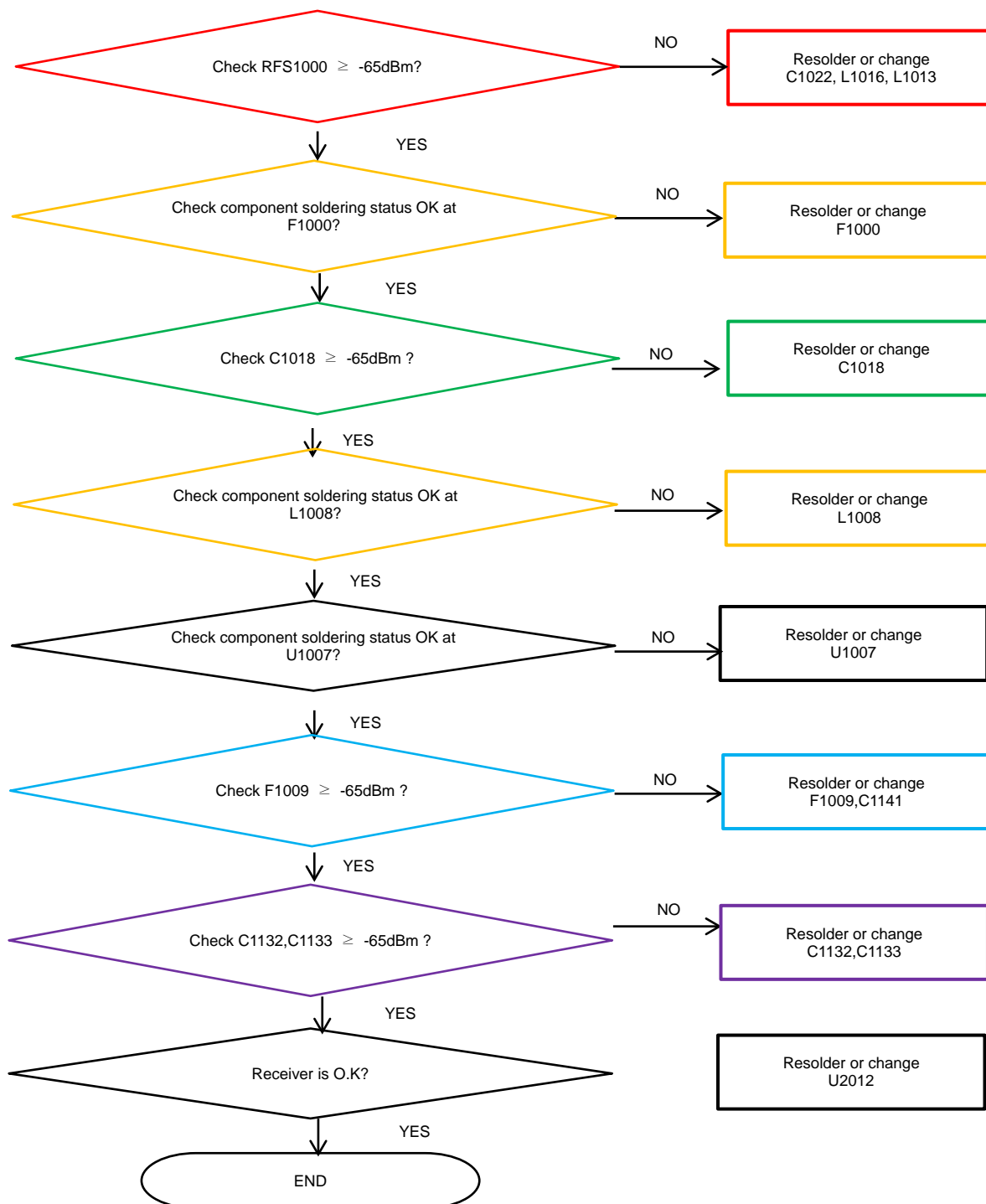
8. Level 3 Repair

8-4-28. LTE B13 RX [SM-A205G/GN]



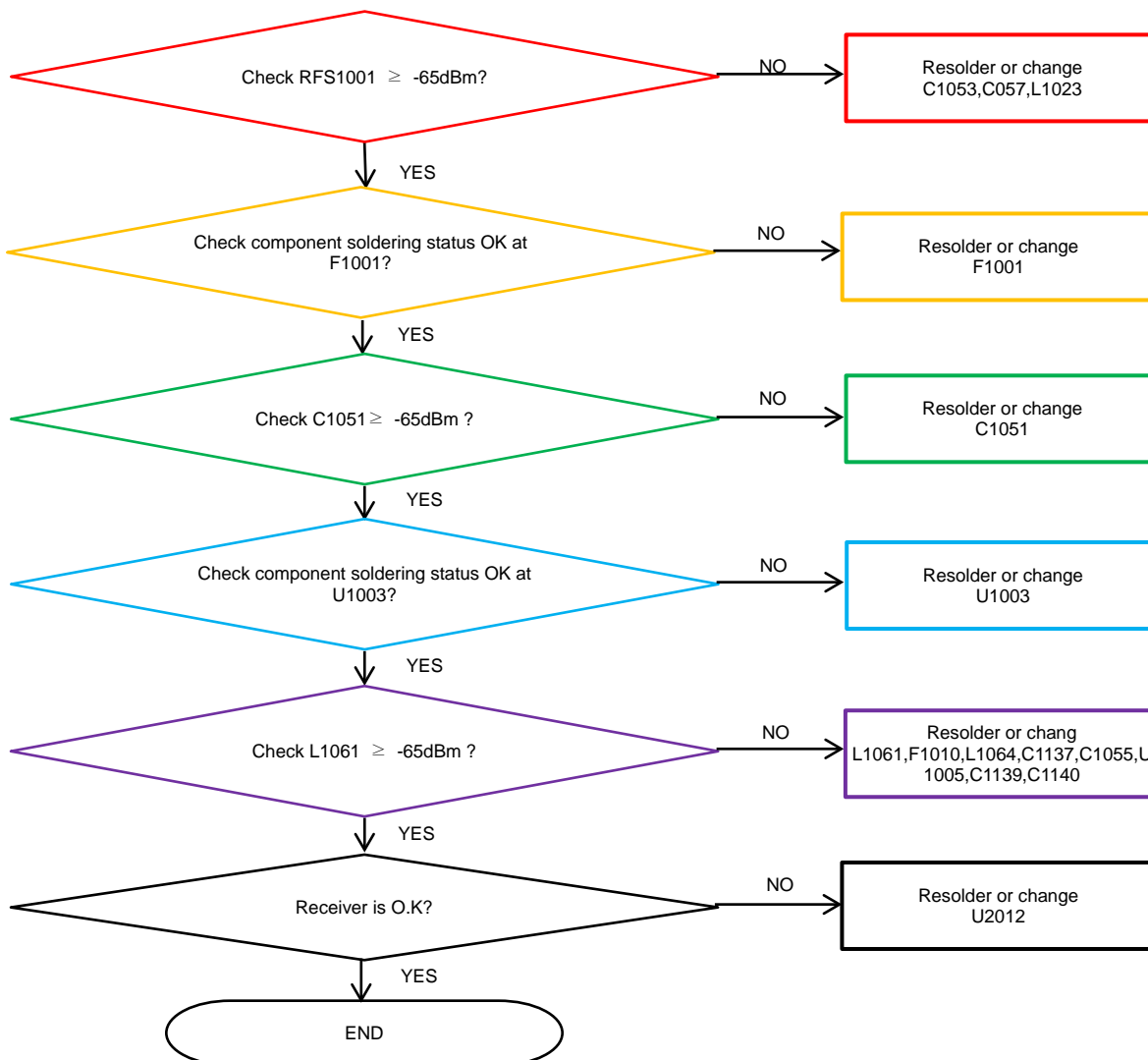
8. Level 3 Repair

8-4-29. LTE B28 RX [SM-A205G/GN]



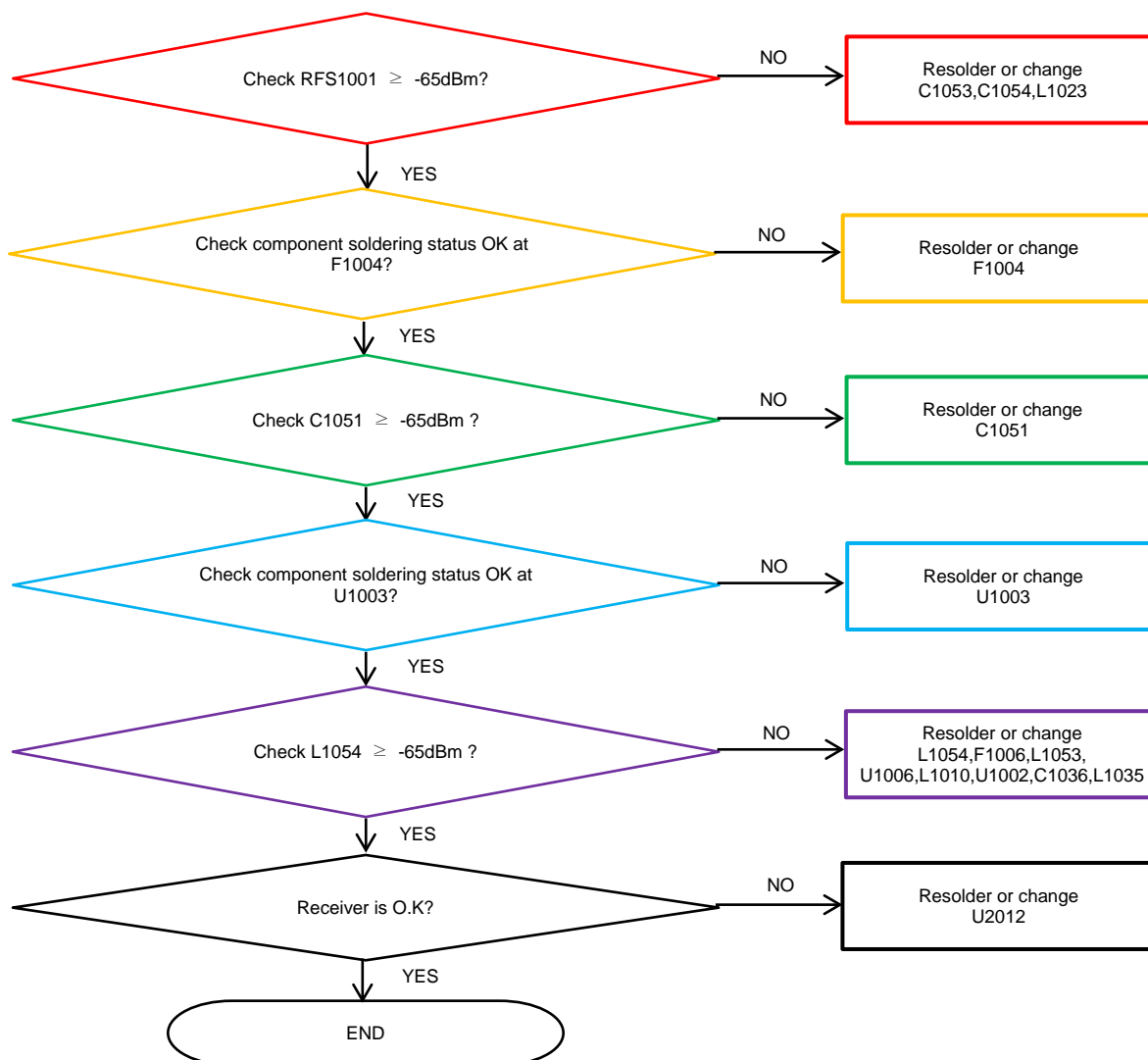
8. Level 3 Repair

8-4-30. LTE B7 RX



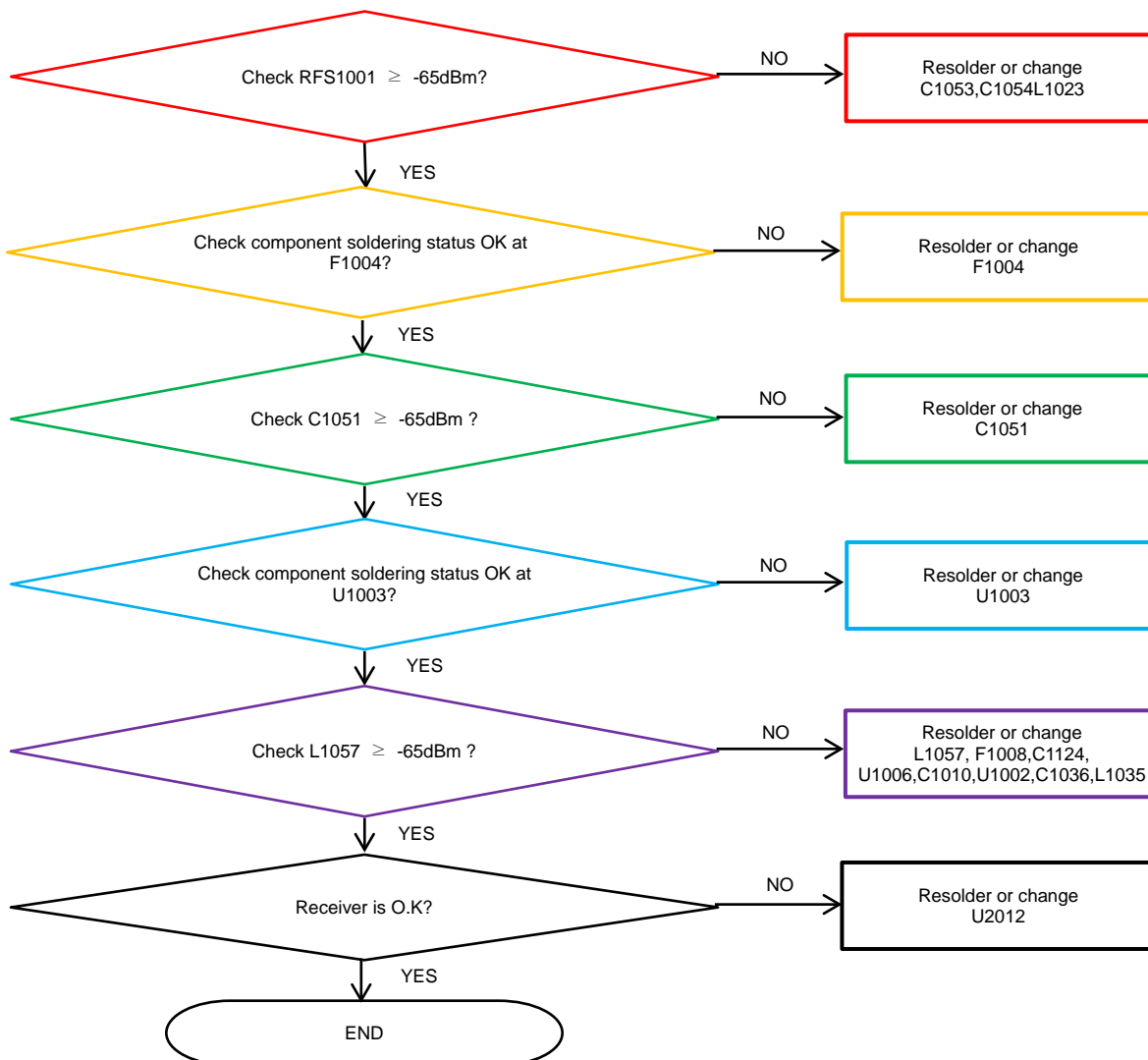
8. Level 3 Repair

8-4-31. LTE B38_41 RX



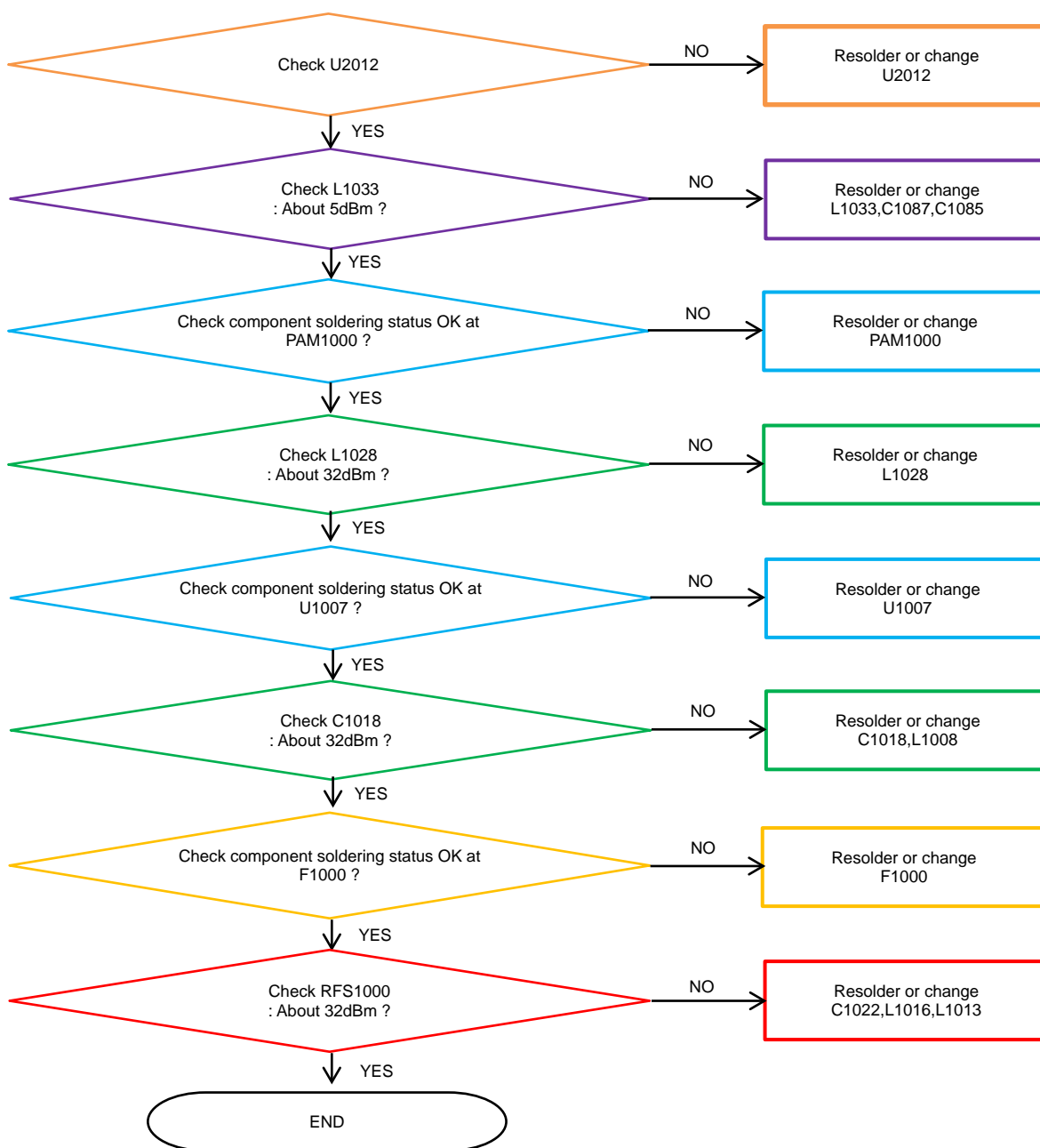
8. Level 3 Repair

8-4-32. LTE B40 RX



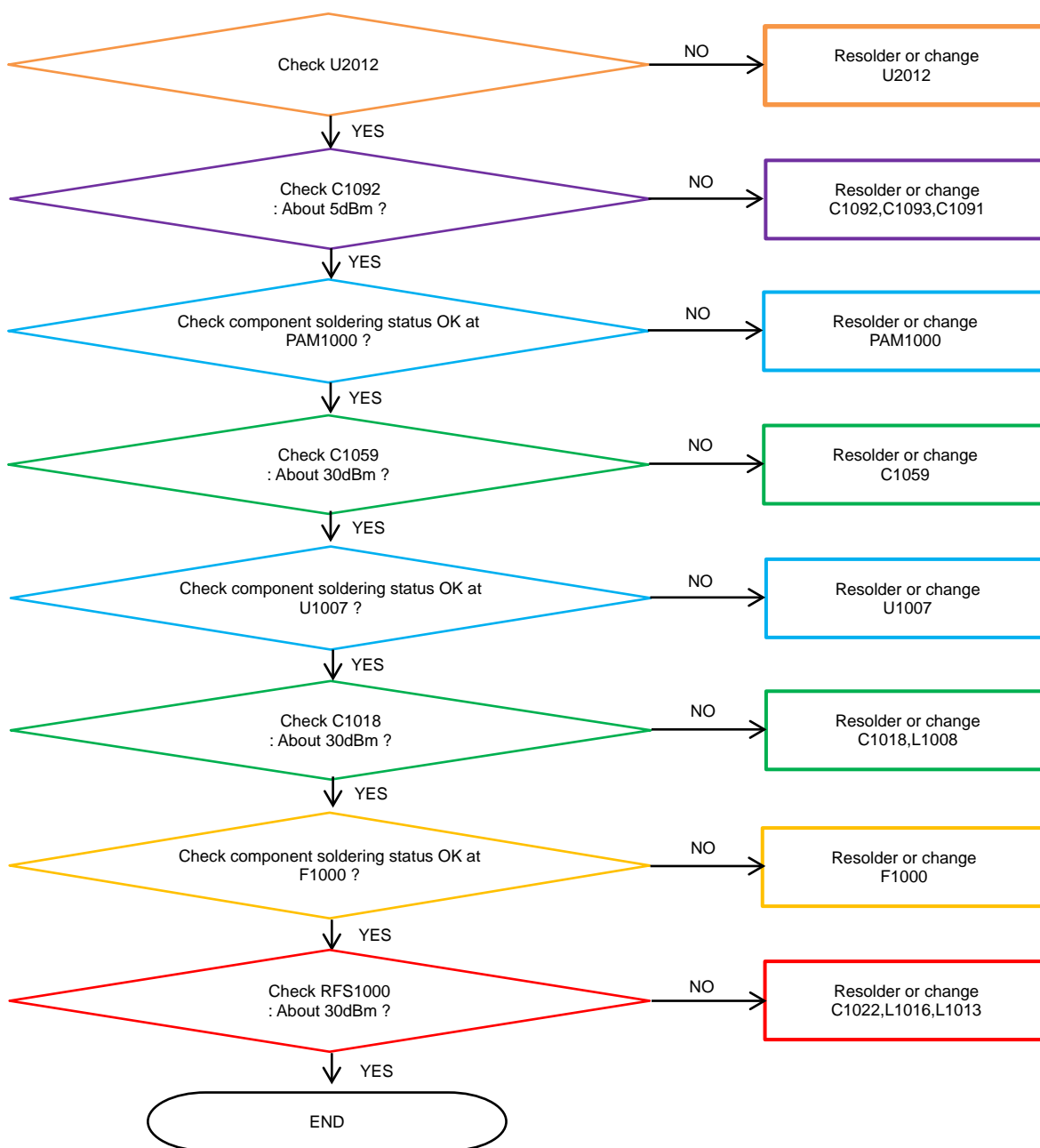
8. Level 3 Repair

8-4-33. GSM 850 / GSM900 TX



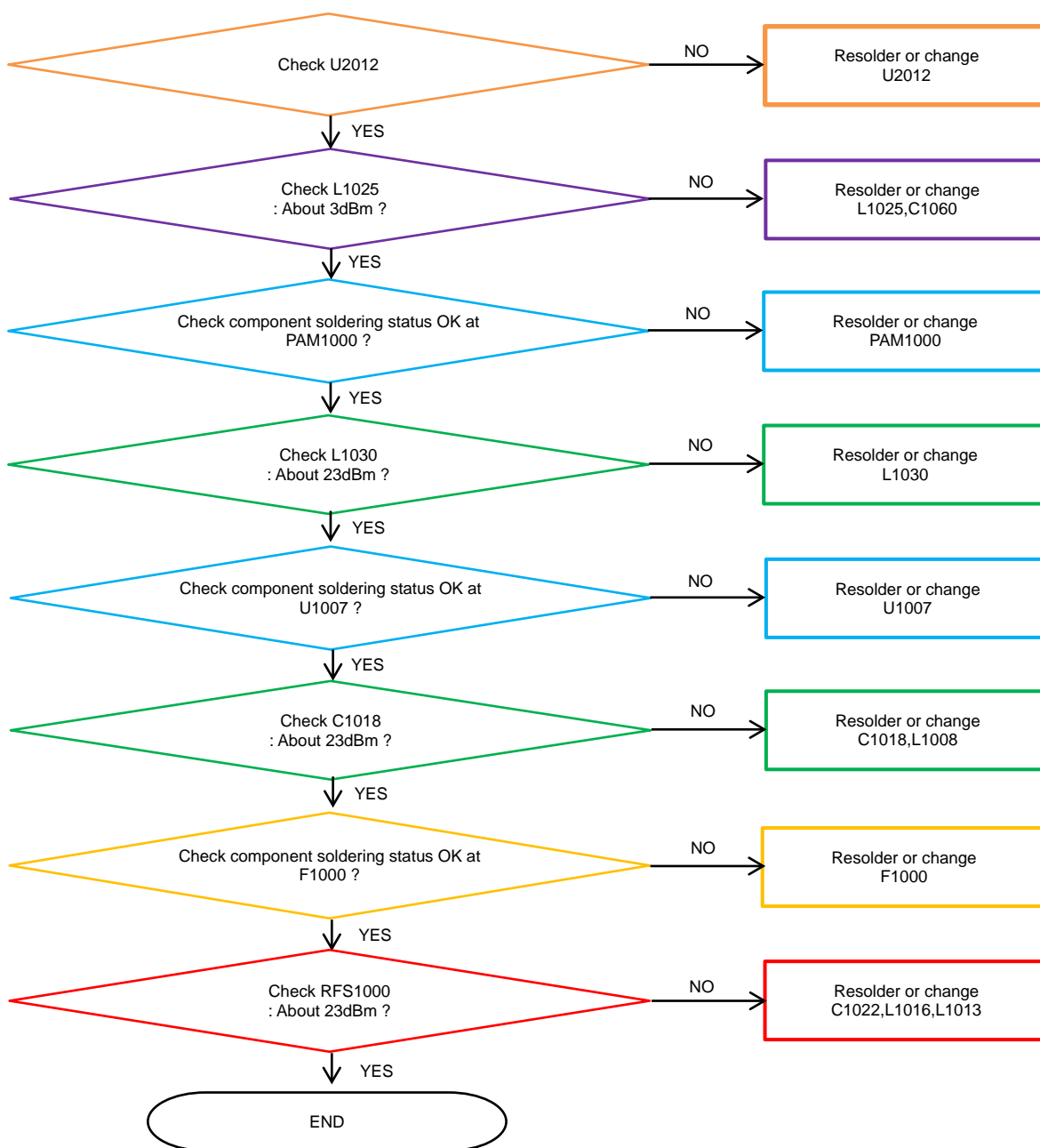
8. Level 3 Repair

8-4-34. GSM1800/ GSM1900 TX



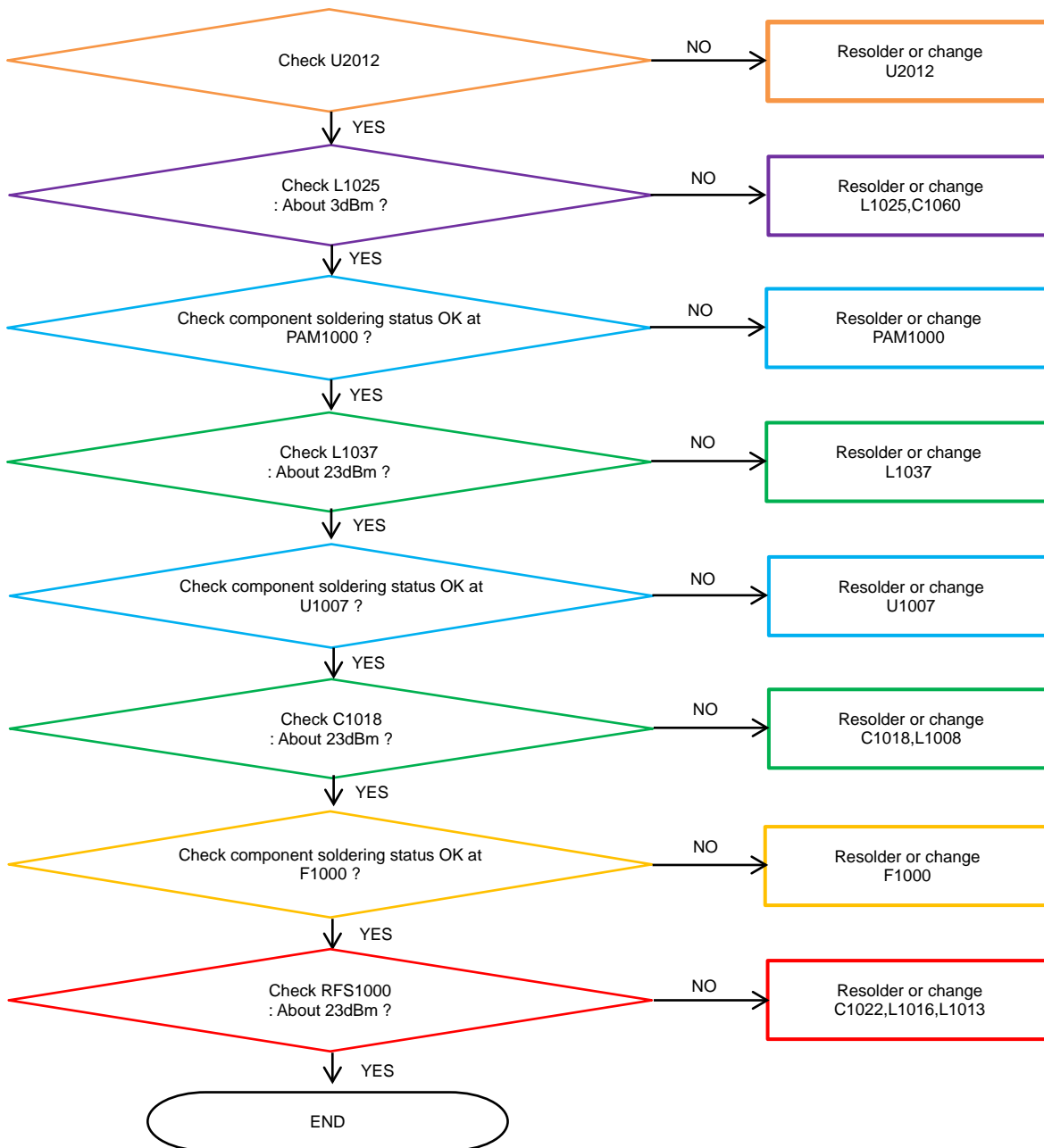
8. Level 3 Repair

8-4-35. LTE, WCDMA B1 TX



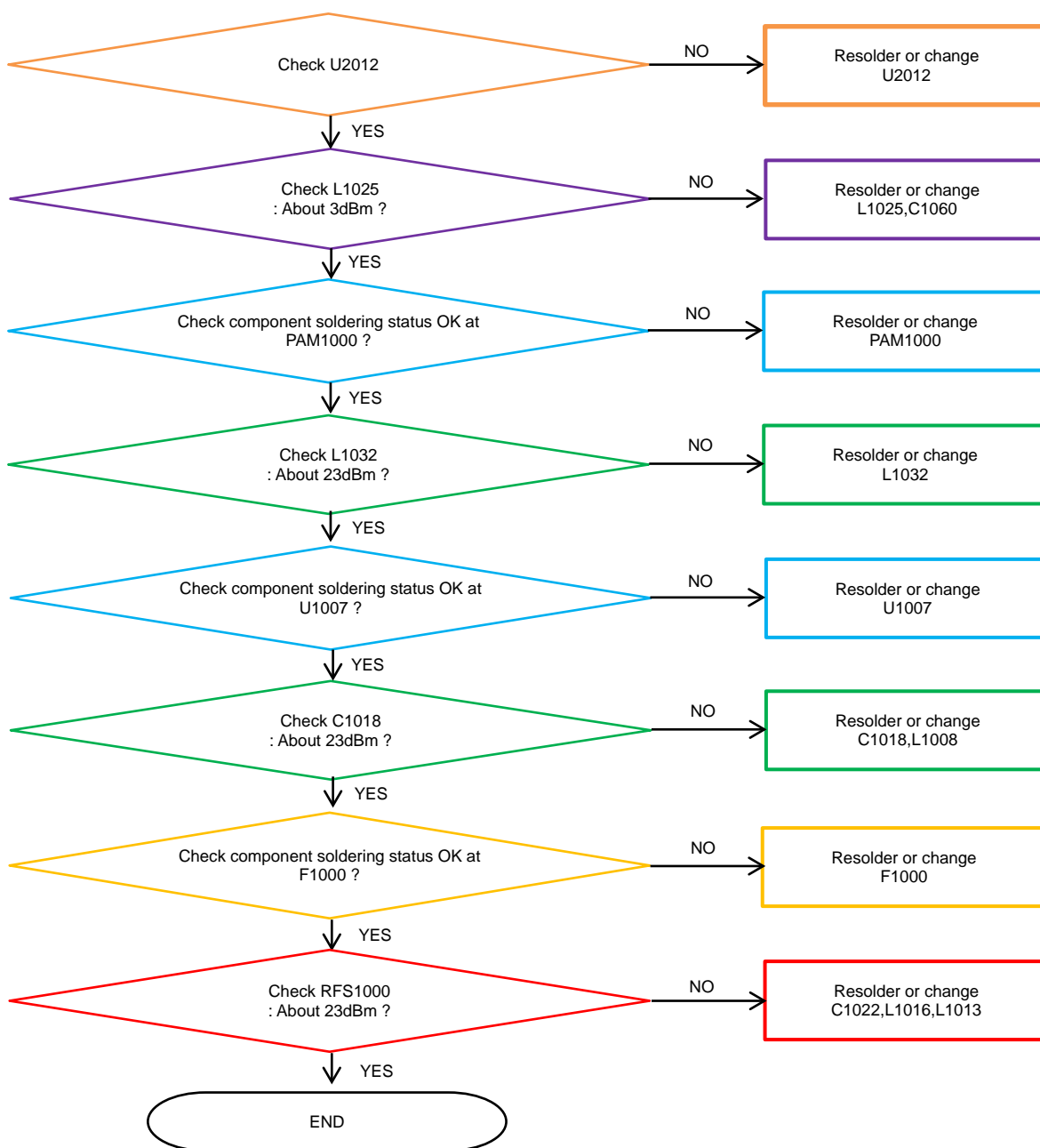
8. Level 3 Repair

8-4-36. WCDMA B2 TX, LTE B2 [SM-A205G/GN]



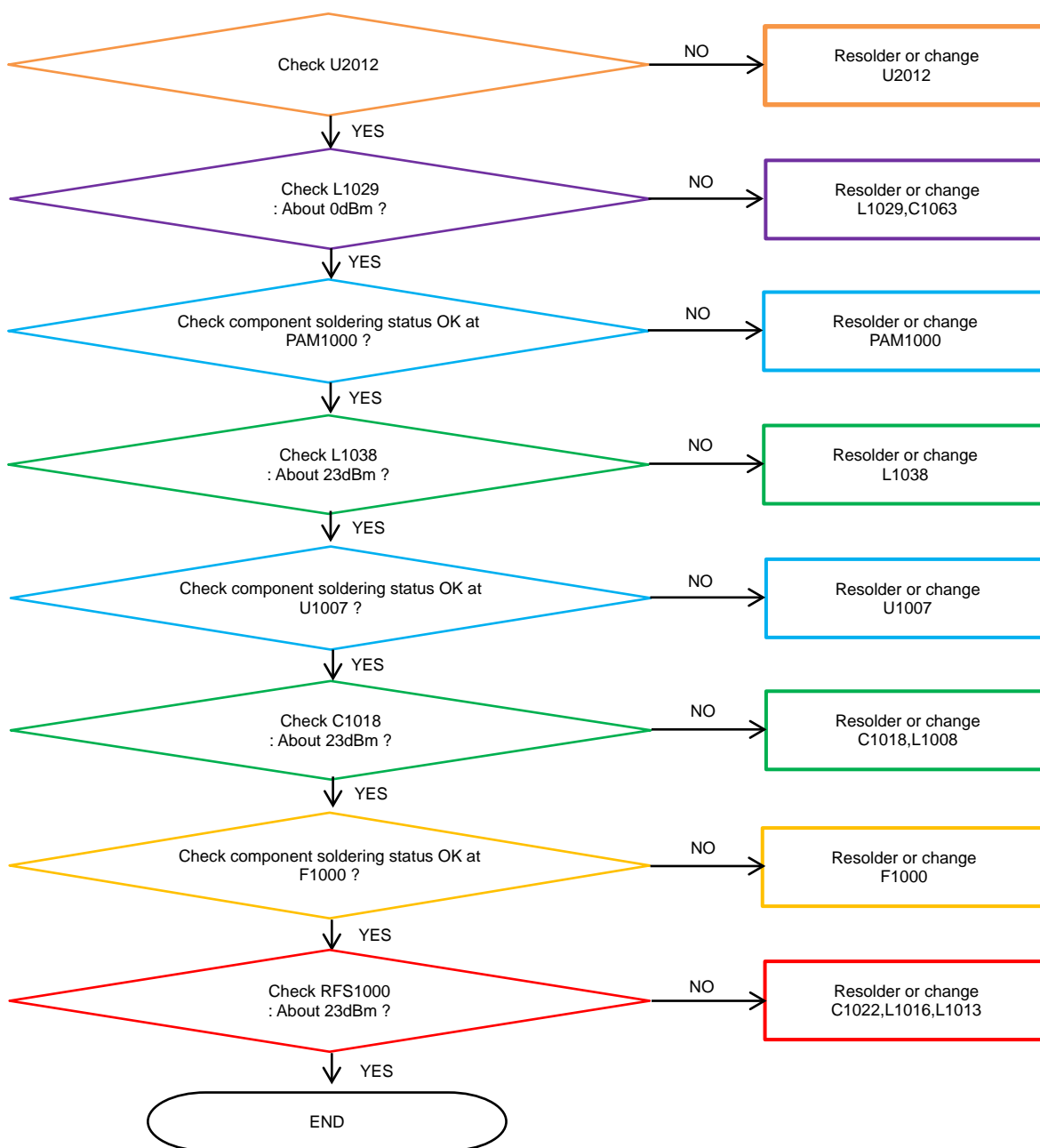
8. Level 3 Repair

8-4-37. LTE B3 TX



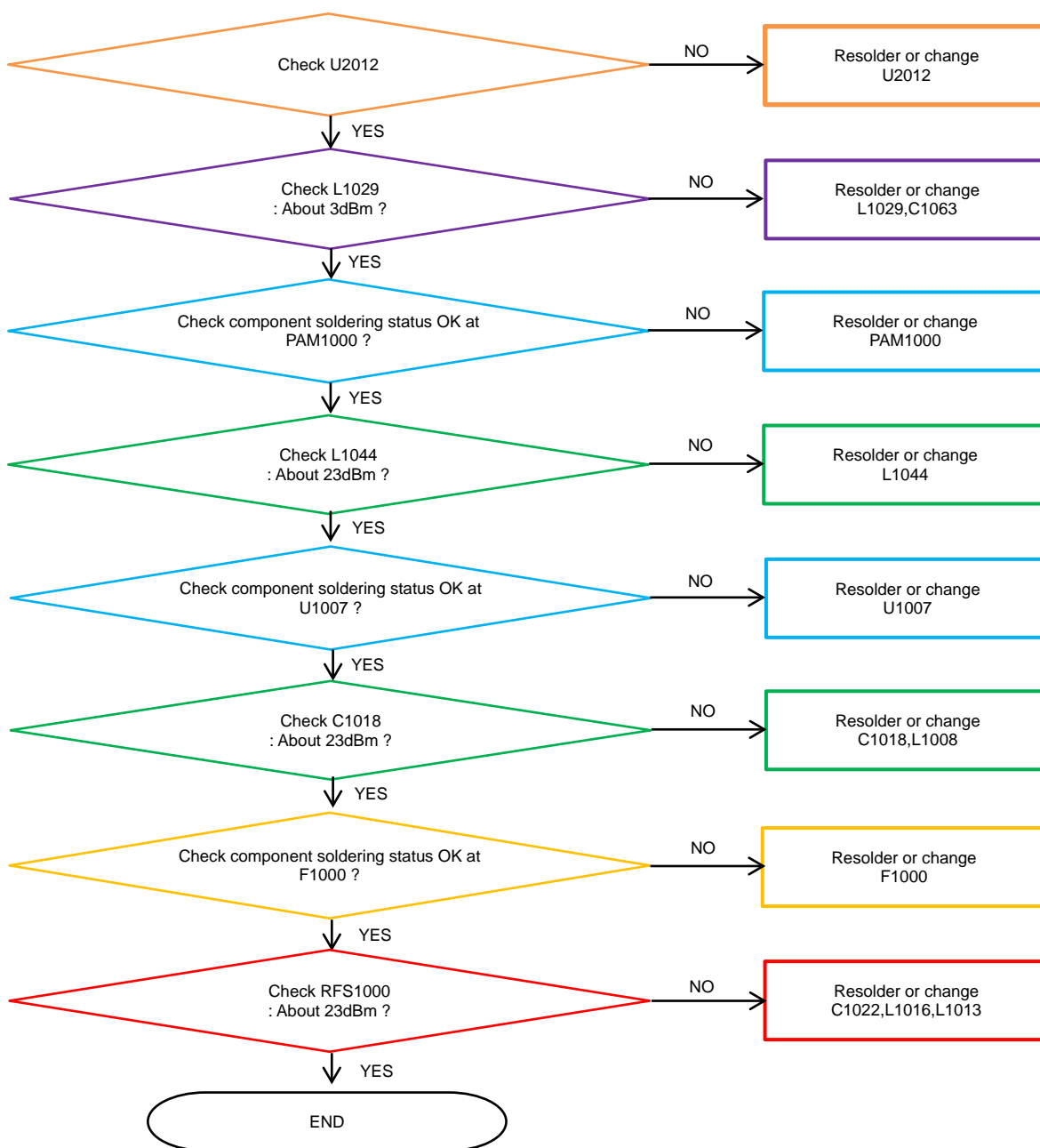
8. Level 3 Repair

8-4-38. LTE, WCDMA B5 TX



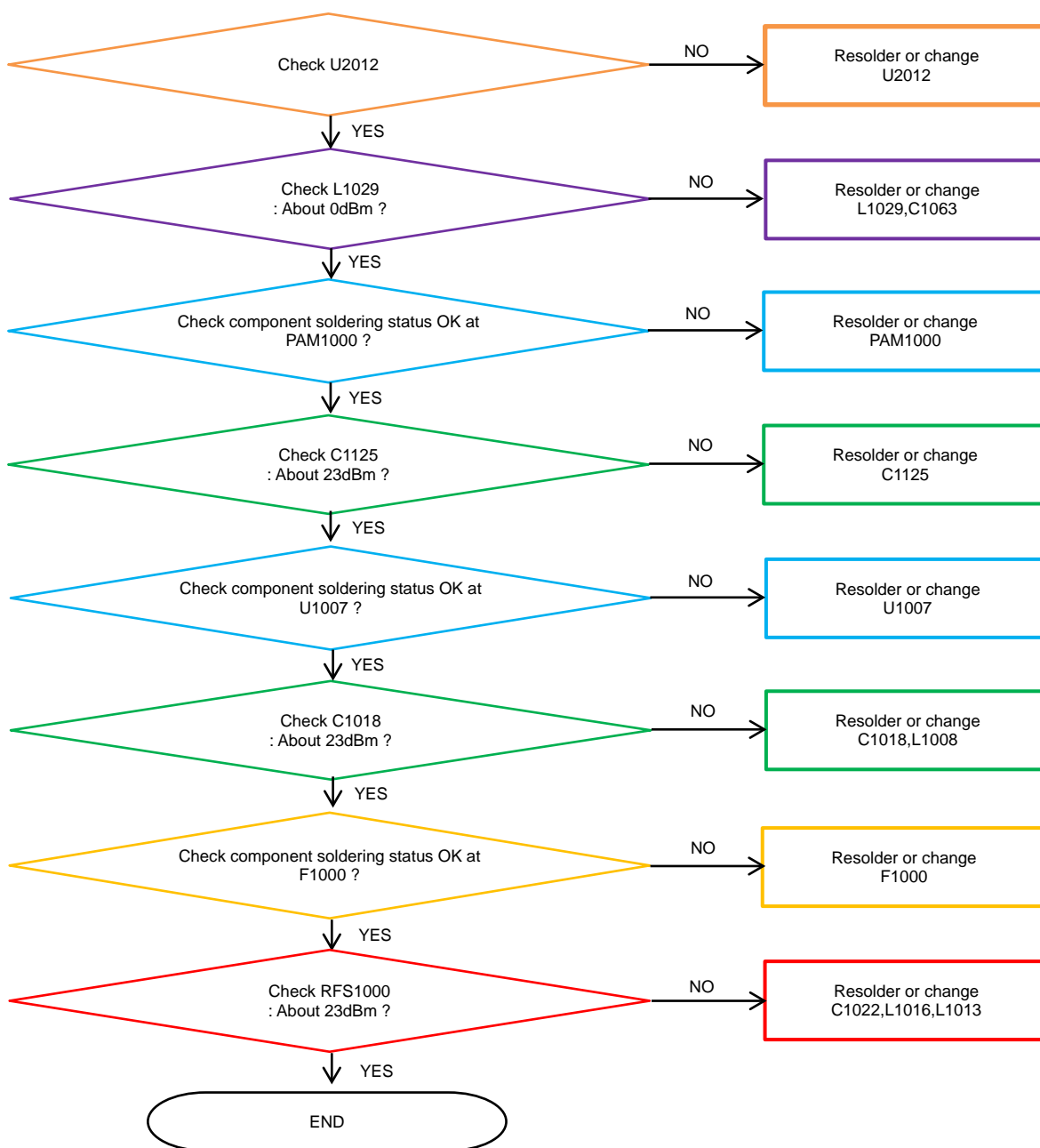
8. Level 3 Repair

8-4-39. LTE, WCDMA B8 TX



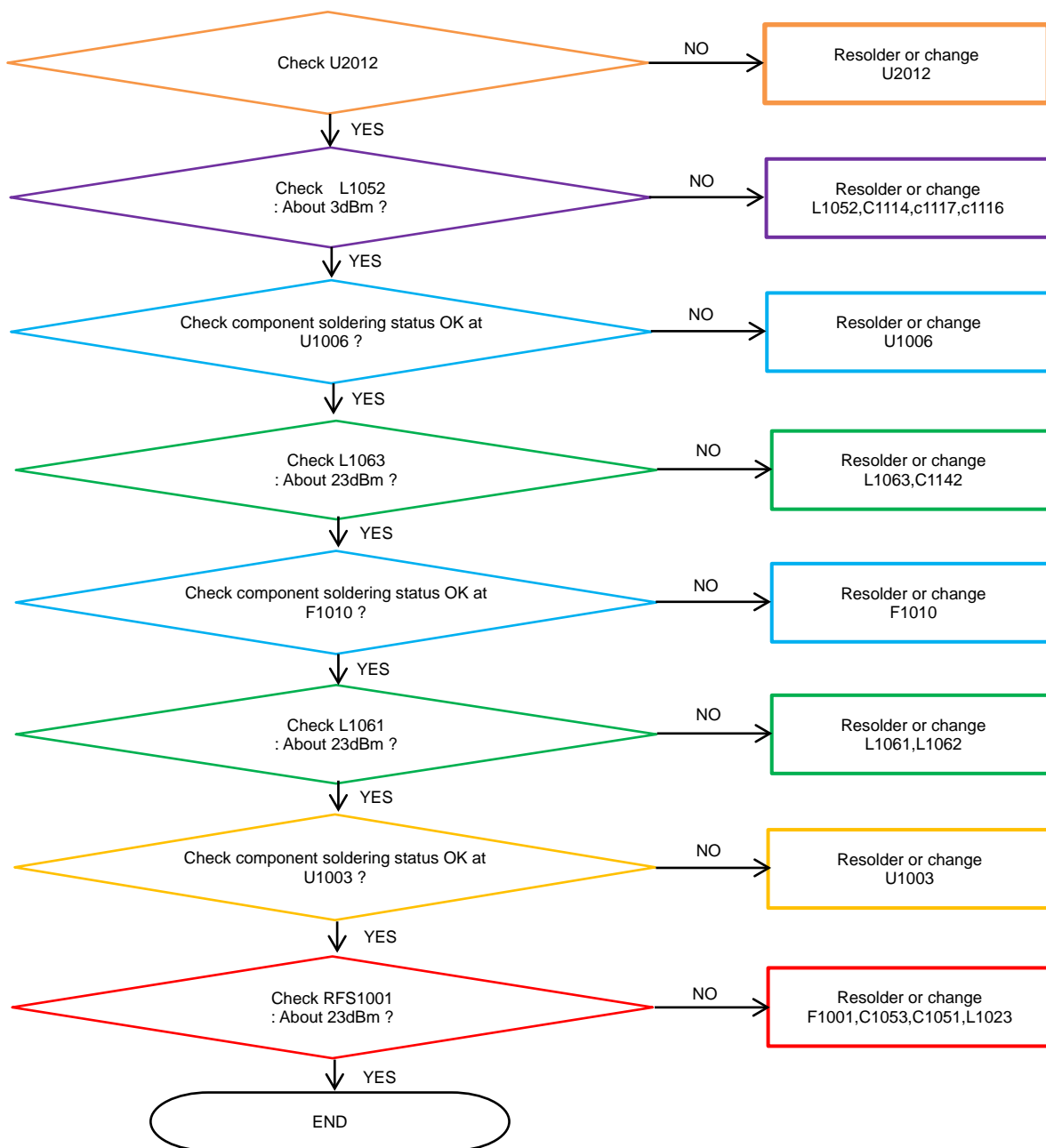
8. Level 3 Repair

8-4-40. LTE B20 TX



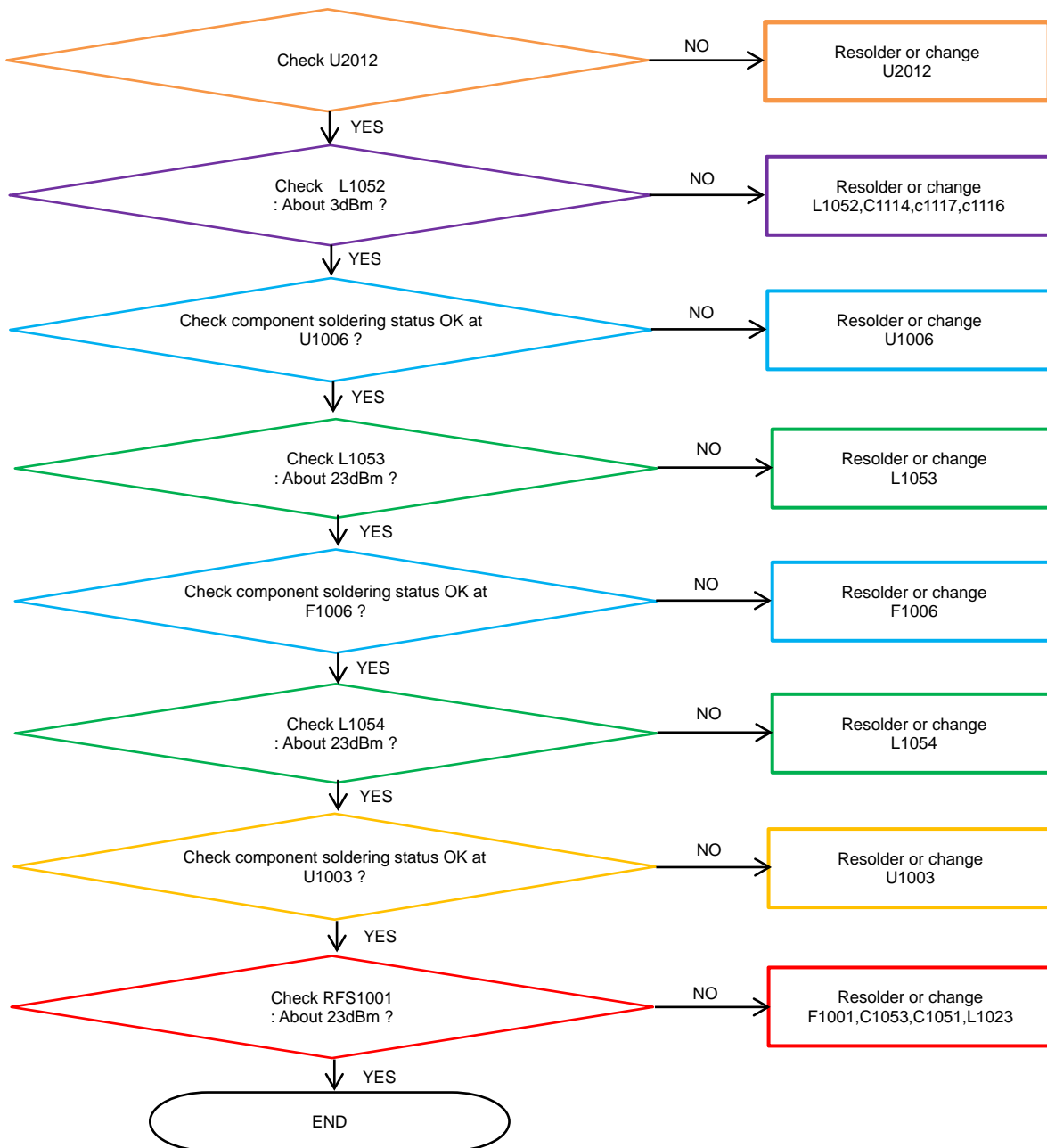
8. Level 3 Repair

8-4-41. LTE B7 TX



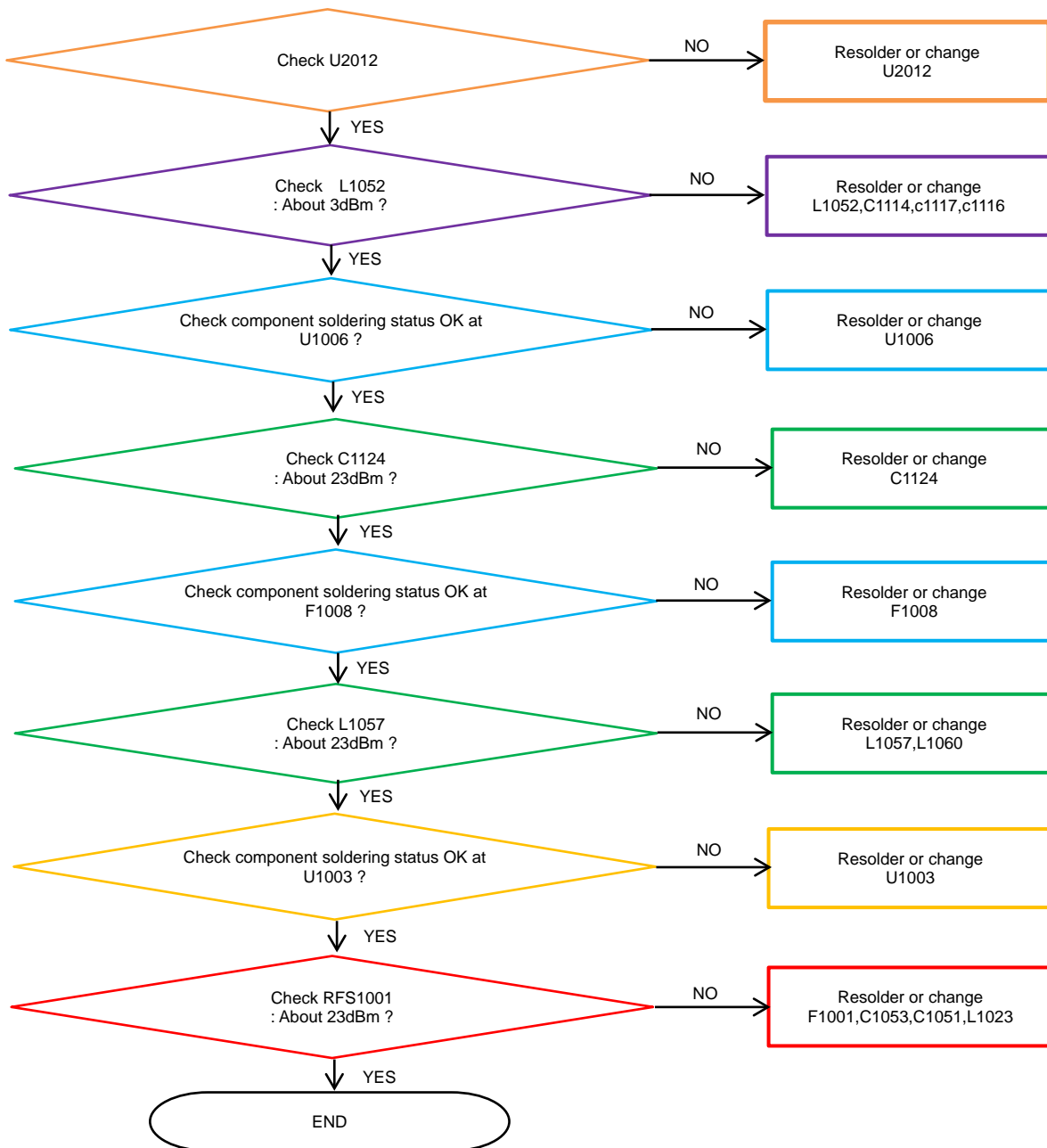
8. Level 3 Repair

8-4-42. LTE B38, 41 TX



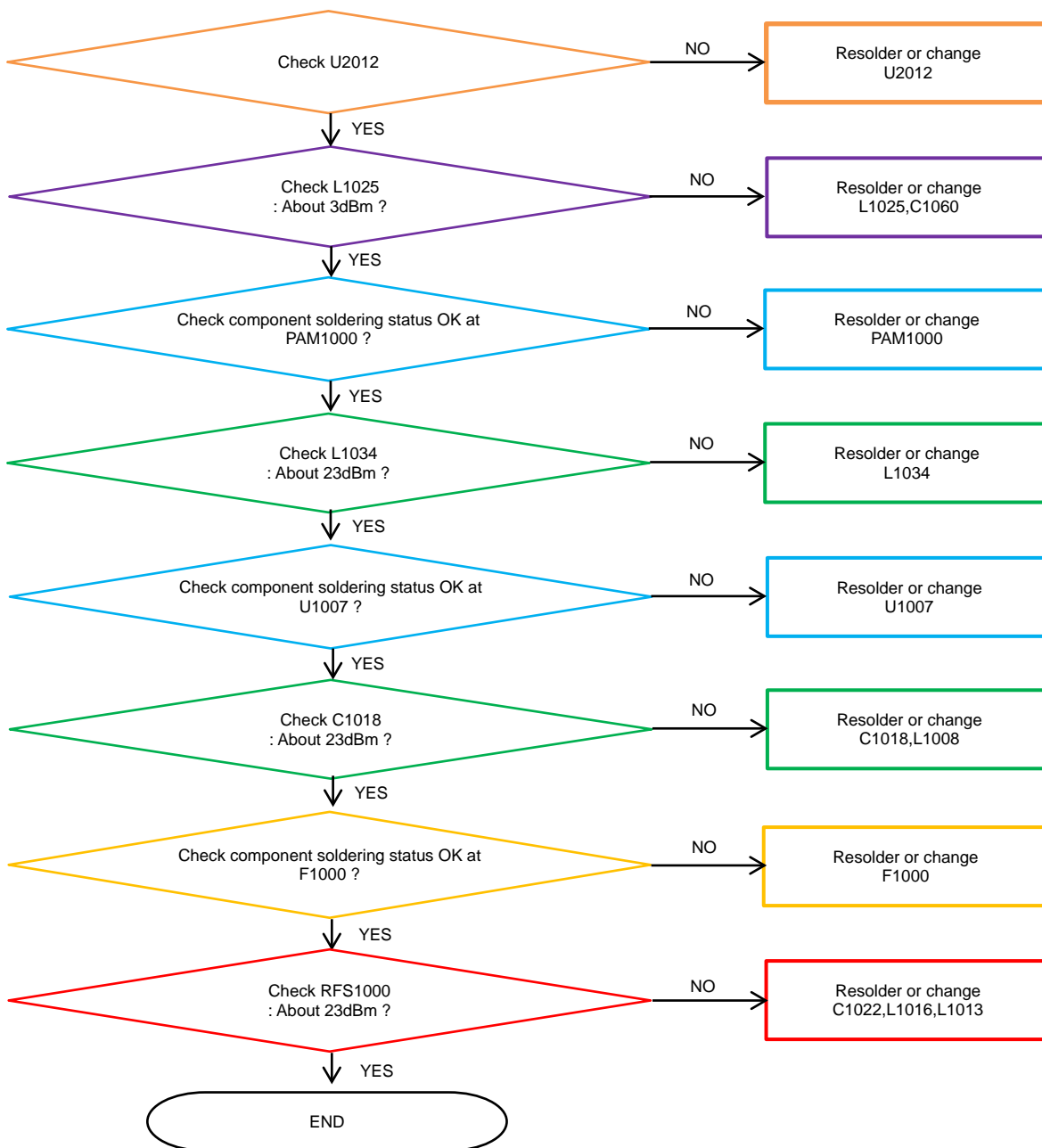
8. Level 3 Repair

8-4-43. LTE B40 TX



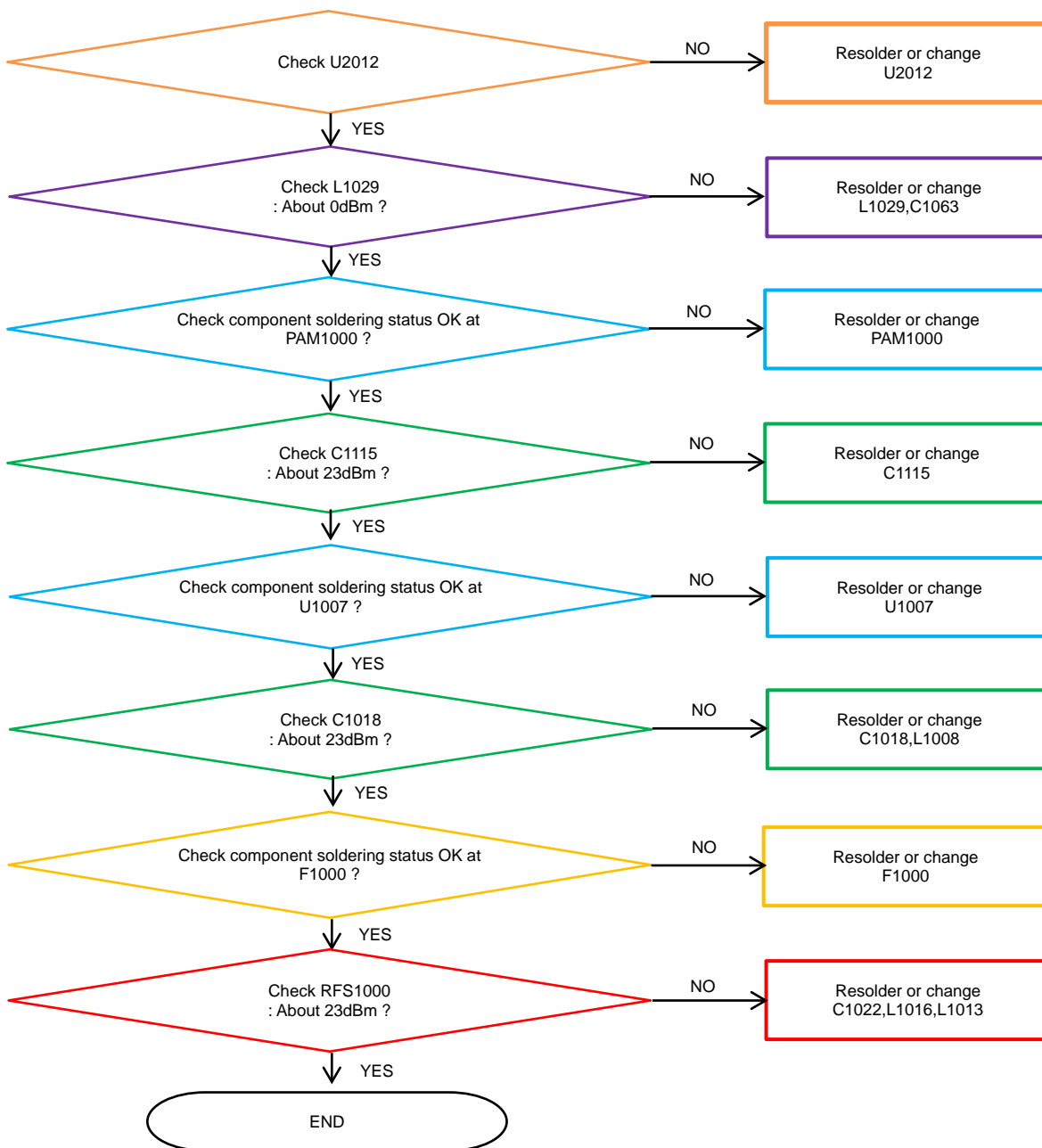
8. Level 3 Repair

8-4-44. WCDMA B4, LTE B4/B66 TX [SM-A205G/GN]



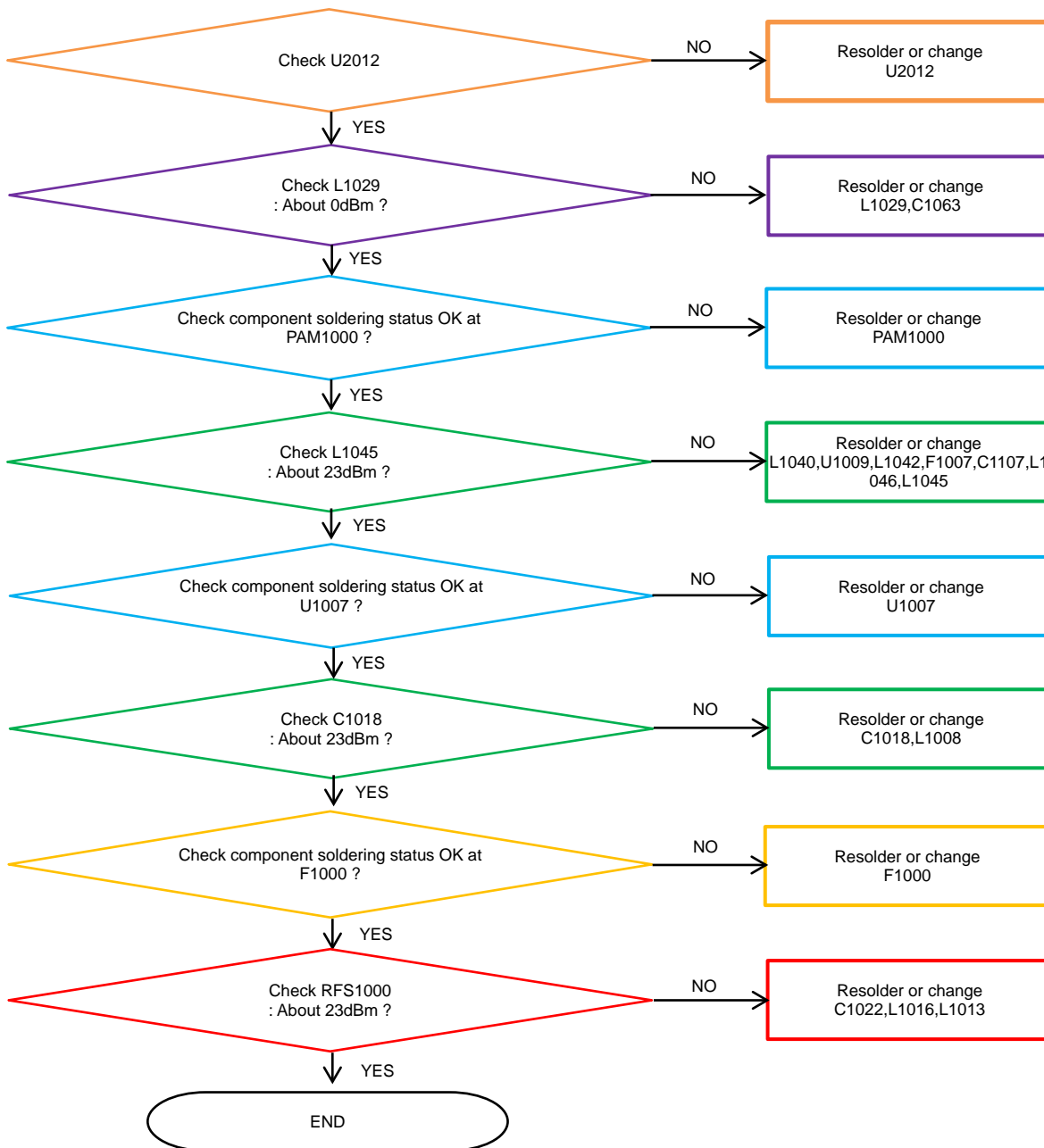
8. Level 3 Repair

8-4-45. LTE B12/B17 TX [SM-A205G/GN]



8. Level 3 Repair

8-4-46. LTE B13 TX [SM-A205G/GN]



8. Level 3 Repair

8-4-47. LTE B28 TX [SM-A205G/GN]

