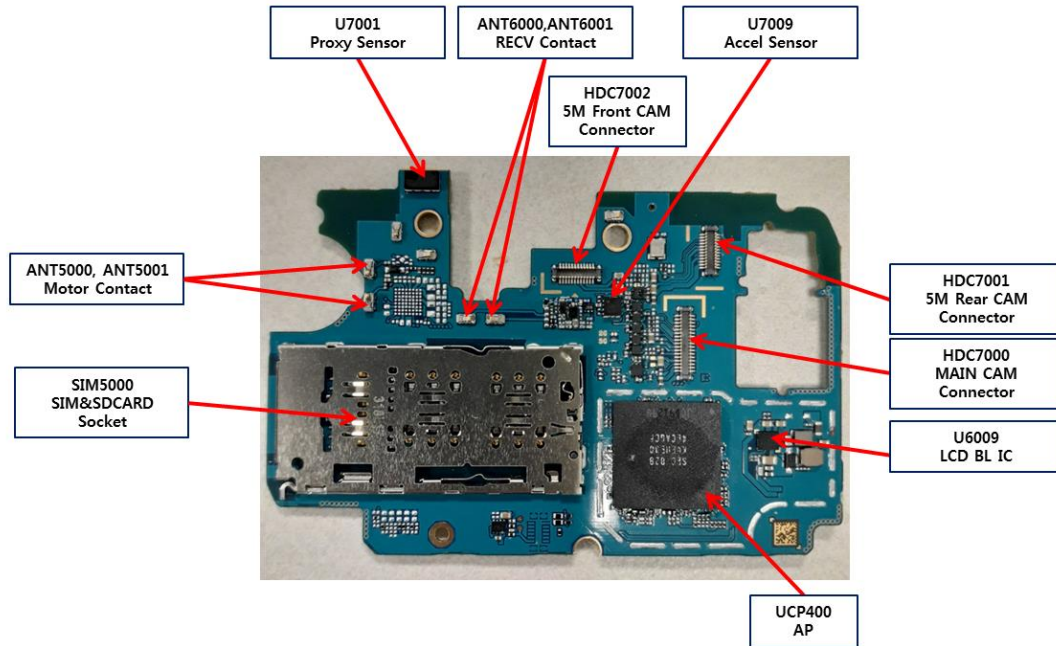
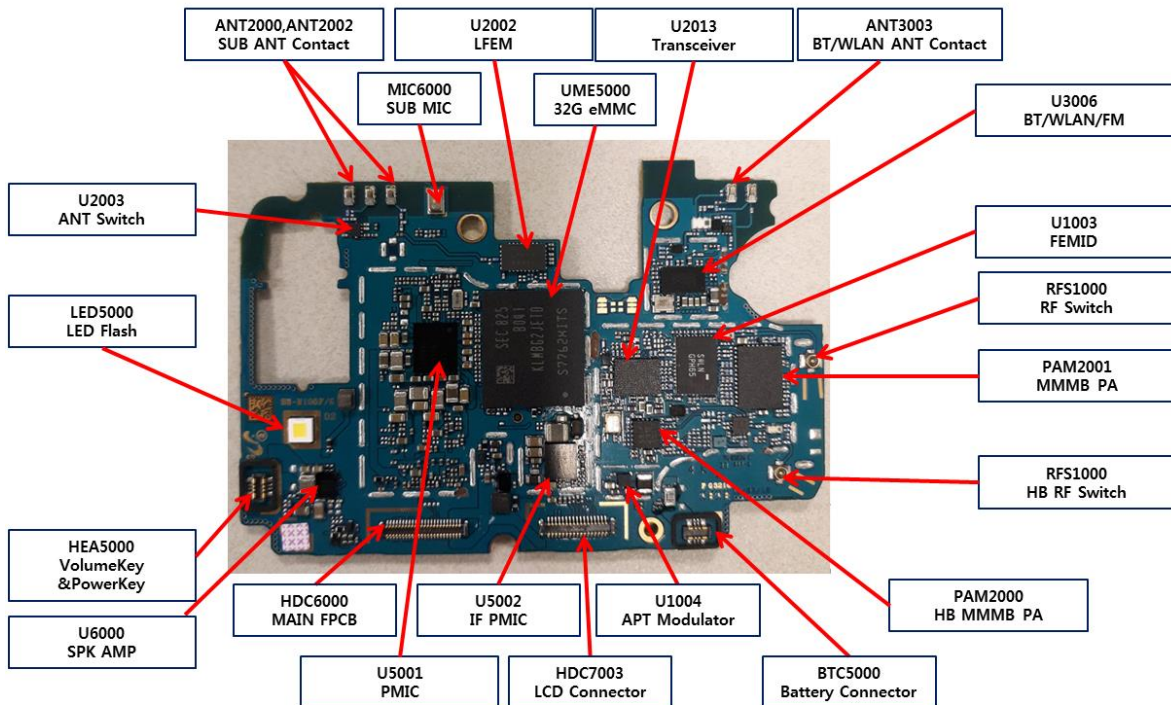


8. Level 3 Repair

8-1. Components Layout

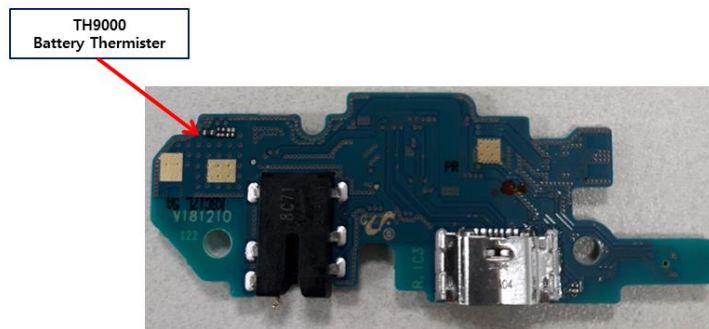
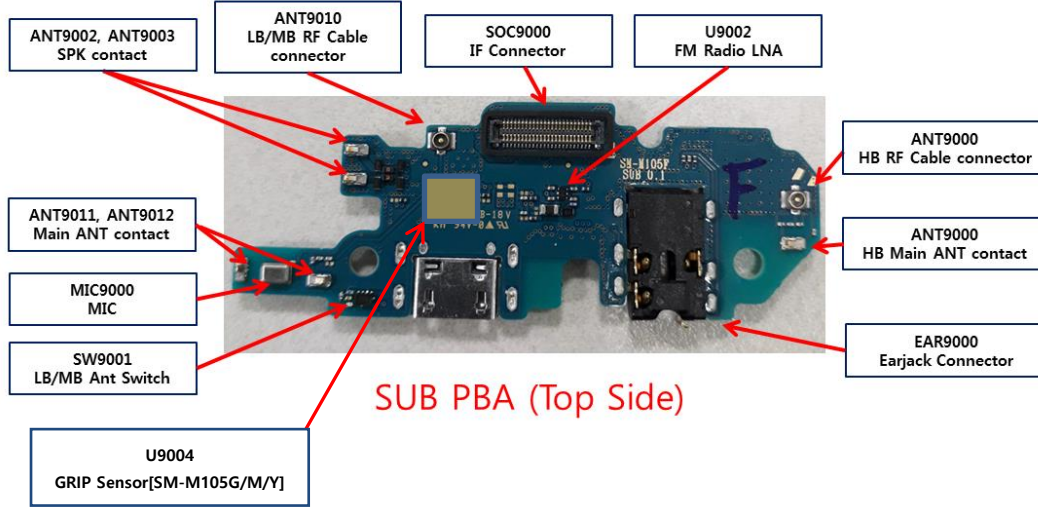


PBA (Top Side)



PBA (Bottom Side)

8. Level 3 Repair



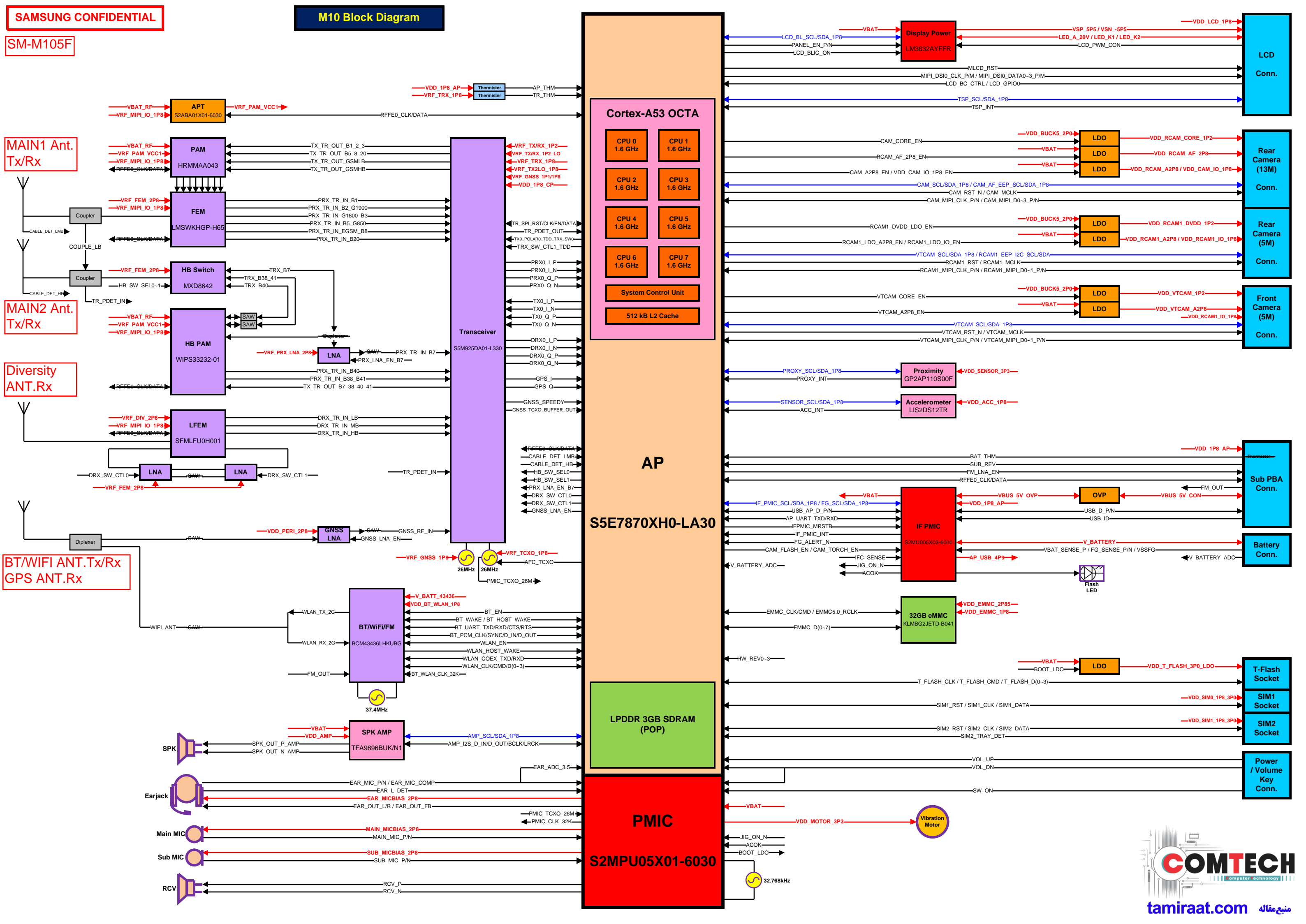
SM-M105F

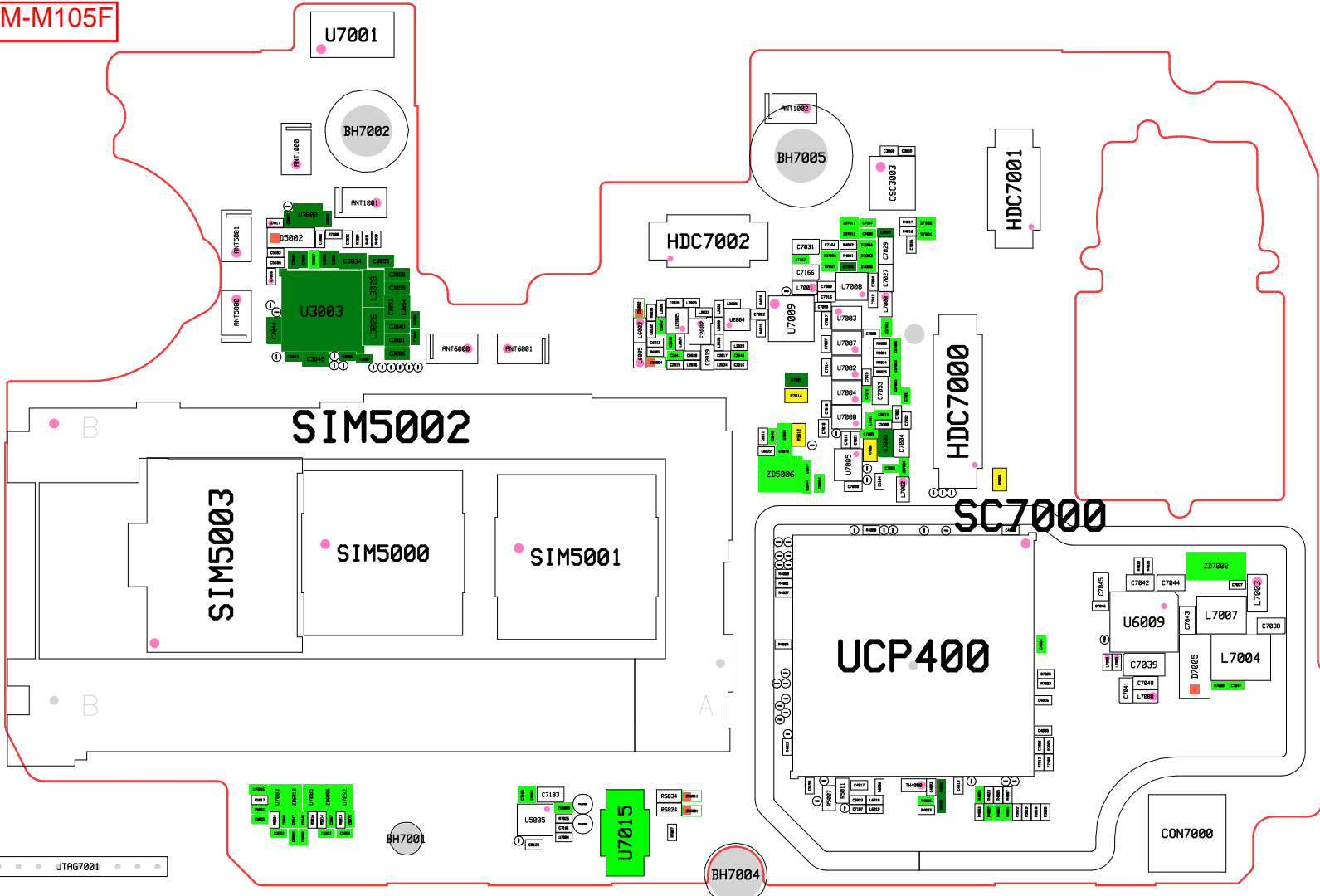
MAIN1 Ant. Tx/Rx

MAIN2 Ant. Tx/Rx

Diversity ANT.Rx

BT/WIFI ANT. Tx/Rx
GPS ANT. Rx





U7001

BH7002

BH7005

HDC7001

HDC7002

SIM5002

SIM5003

SIM5000

SIM5001

U7009

HDC7000

SC7000

UCP400

L7007

L7004

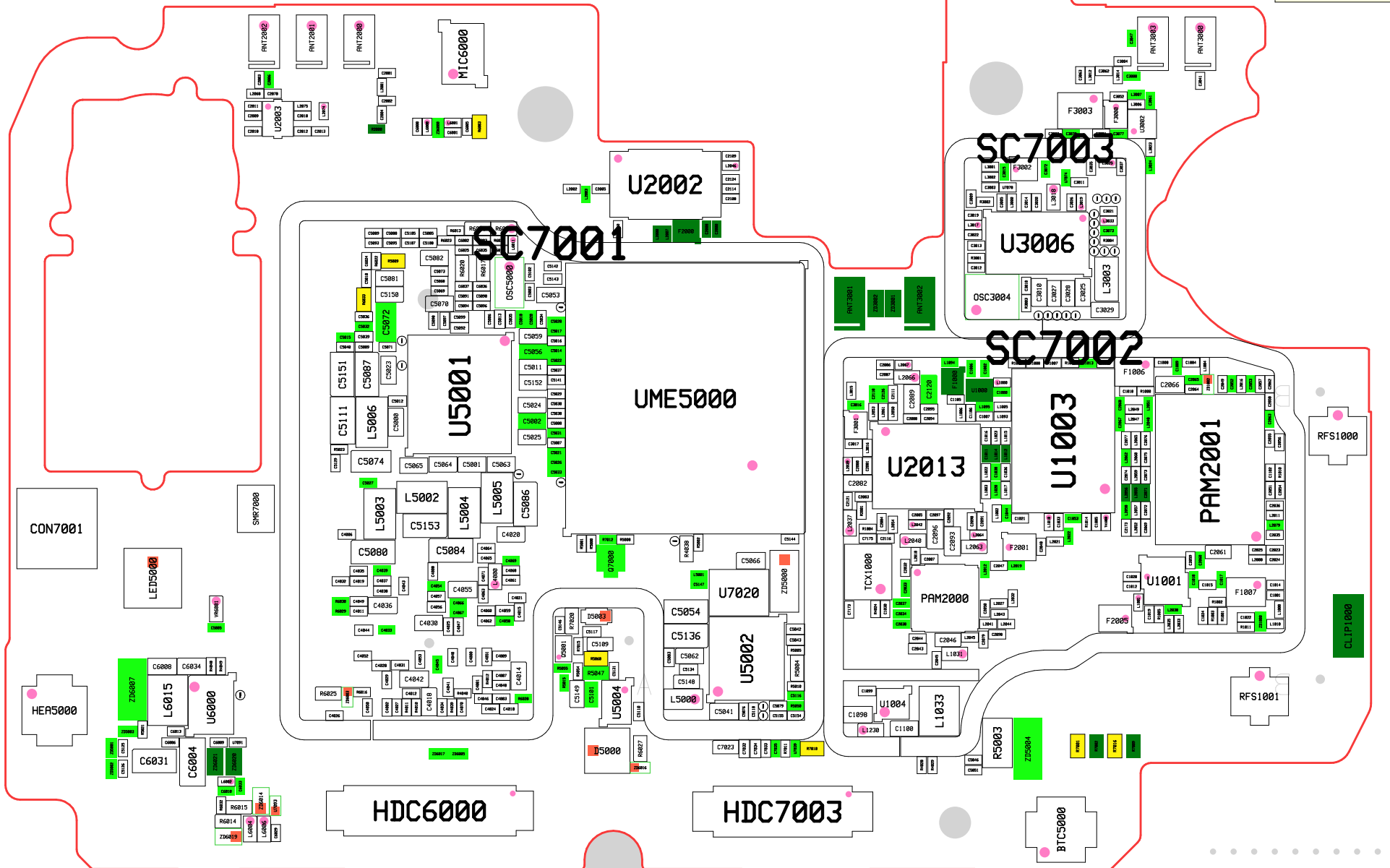
CON7000

JTAG7001

BH7001

U7015

BH7004



CLIP1000

RFS1000

RFS1001

BTC5000

HDC7003

HDC6000

SC7002

SC7003

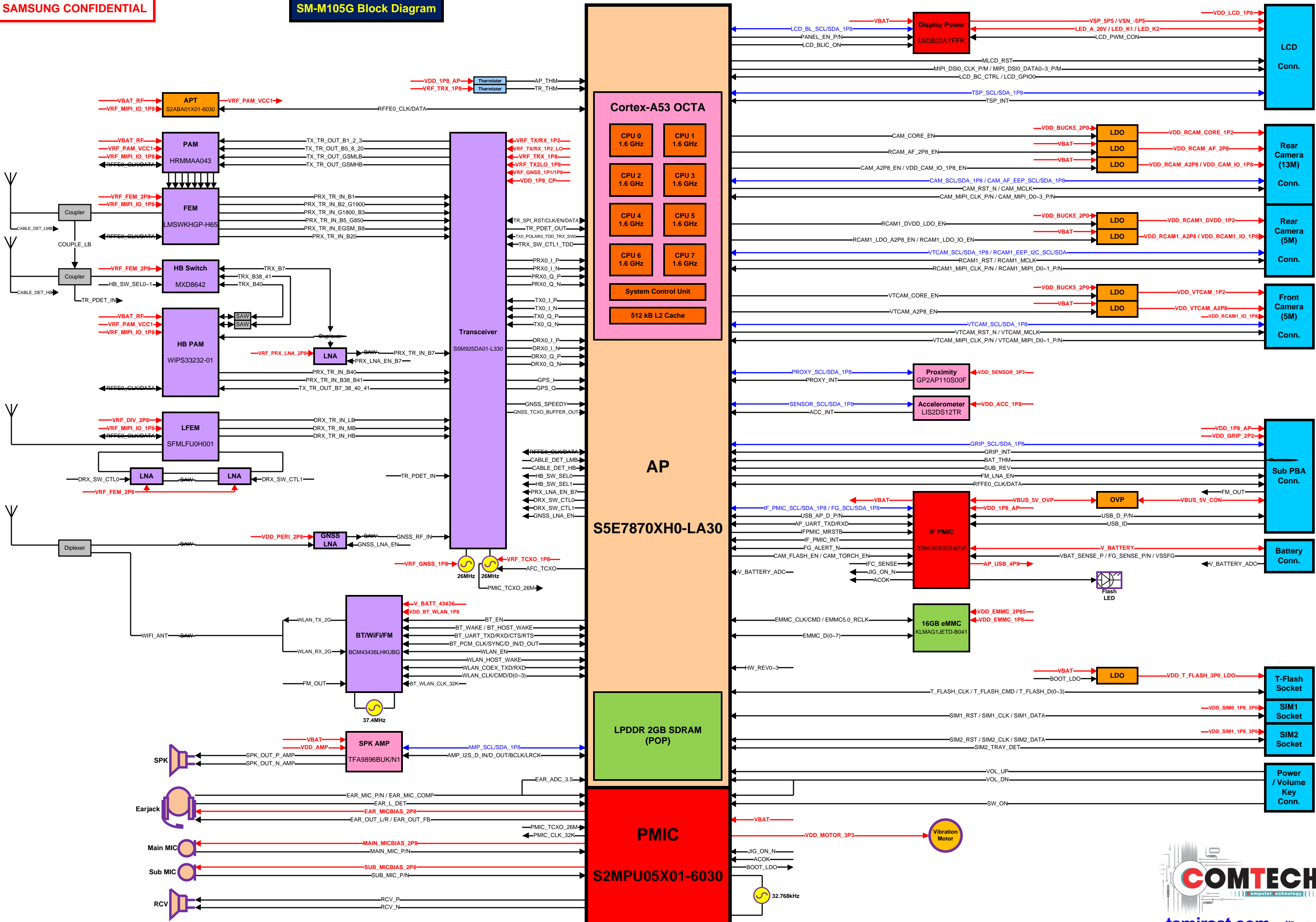
SC7001

CON7001

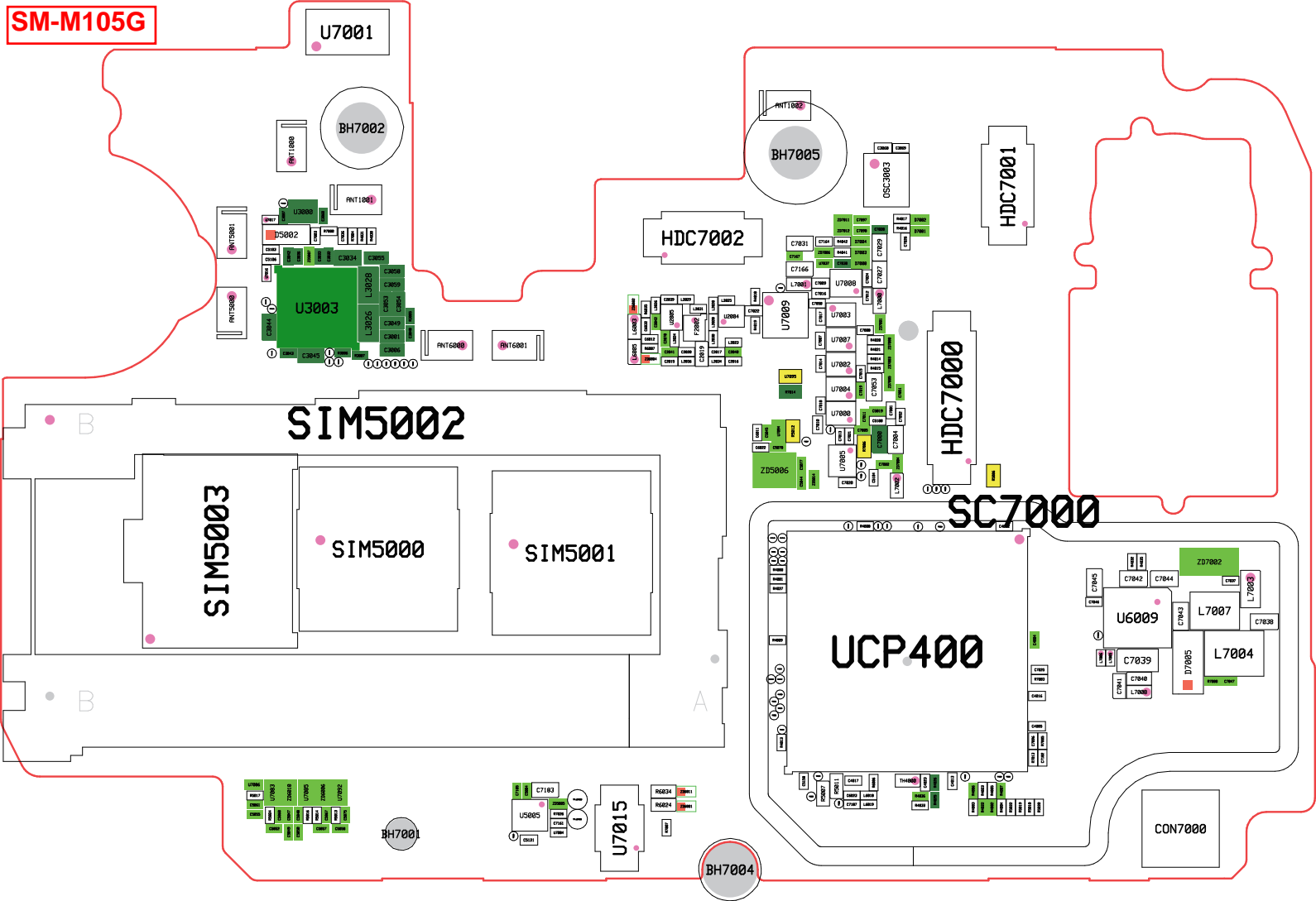
LED5000

HER5000

SHR7000



SM-M105G



U7001

BH7002

U3003

BH7005

HDC7002

HDC7001

U7009

HDC7000

SIM5002

SIM5003

SIM5000

SIM5001

ZD5006

SC7000

UCP400

U6009

L7007

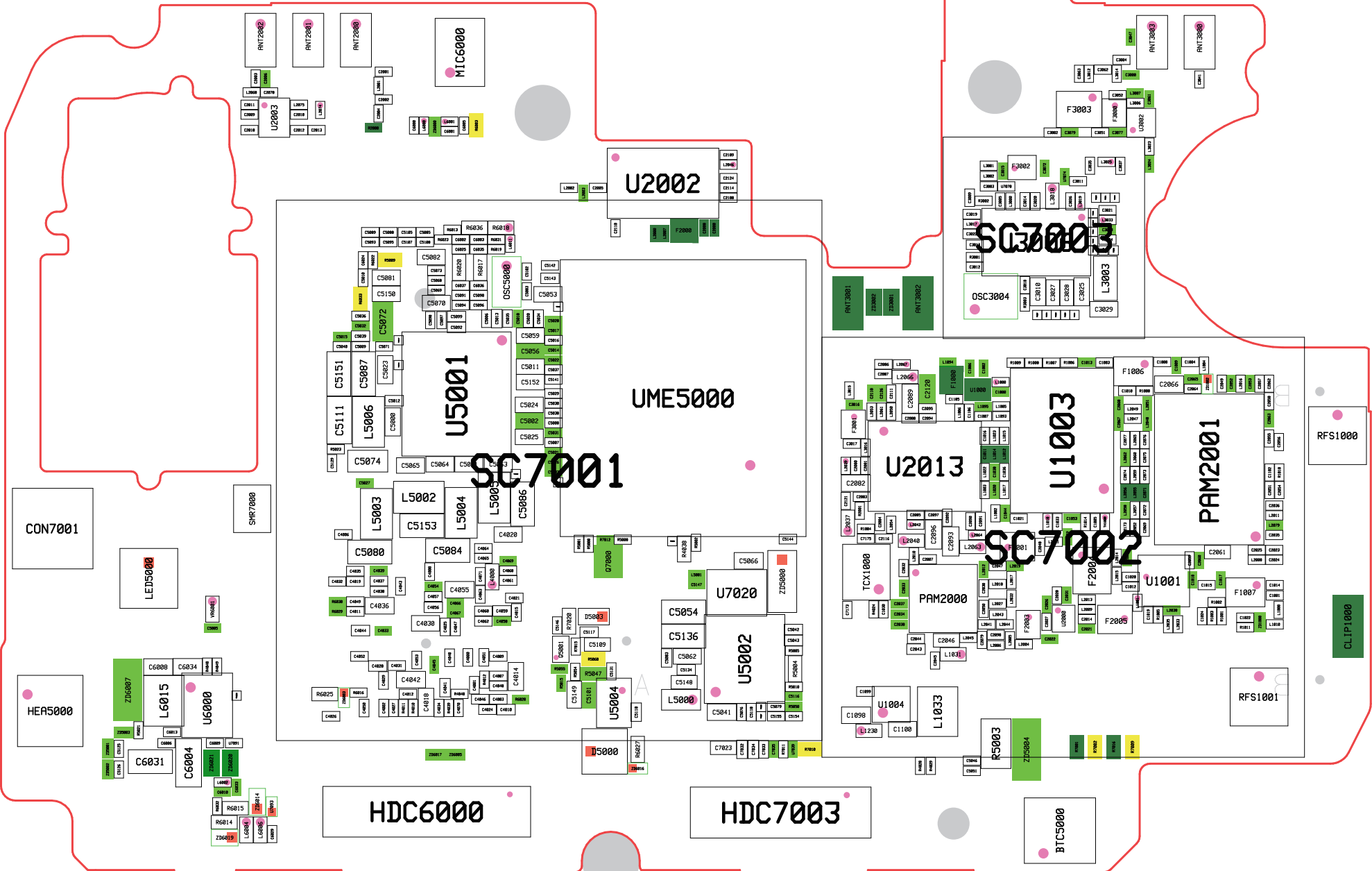
L7004

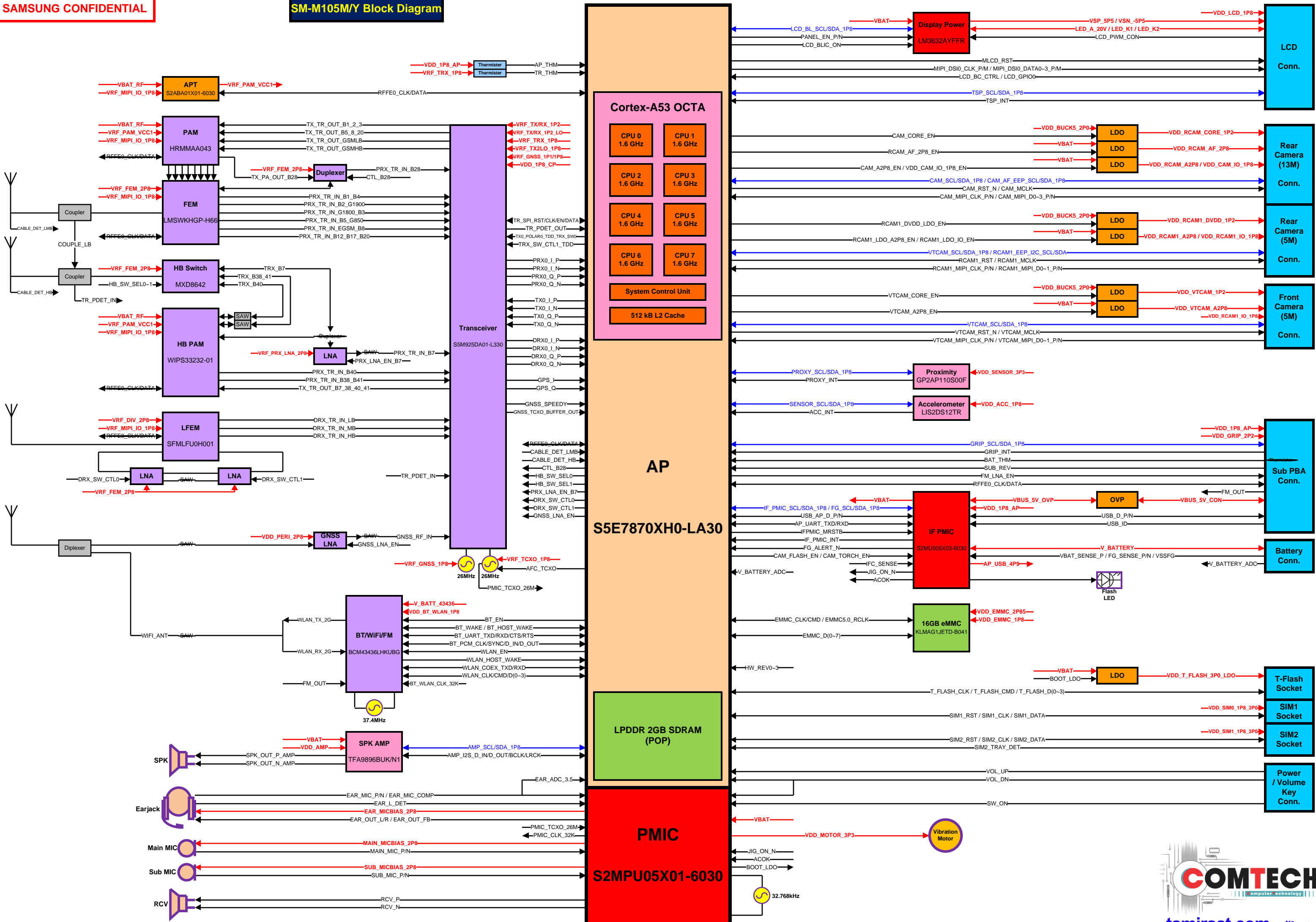
CON7000

BH7001

U7015

BH7004

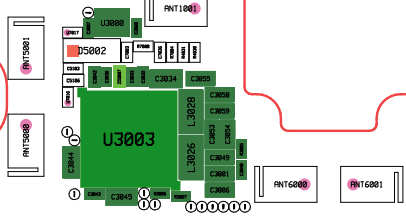




SM-M105M/Y

U7001

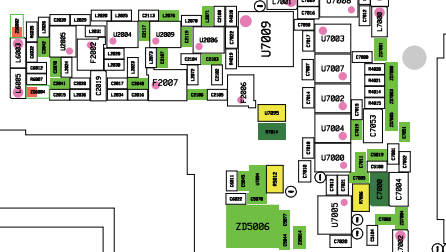
BH7002



HDC7002

BH7005

HDC7001



HDC7000

SIM5002

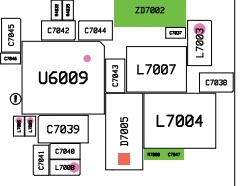
SIM5003

SIM5000

SIM5001

SC7000

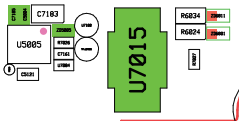
UCP400



CON7000





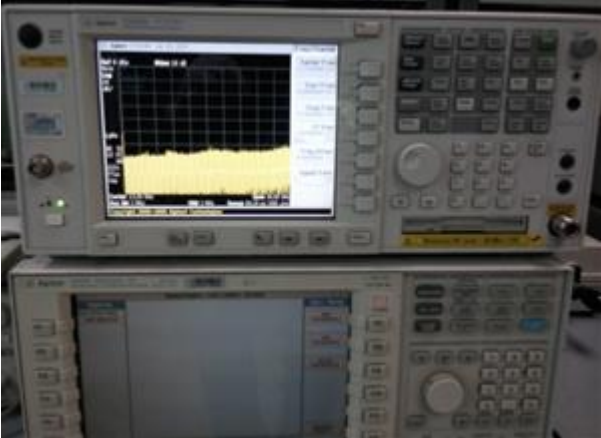
BH7004



BH7004

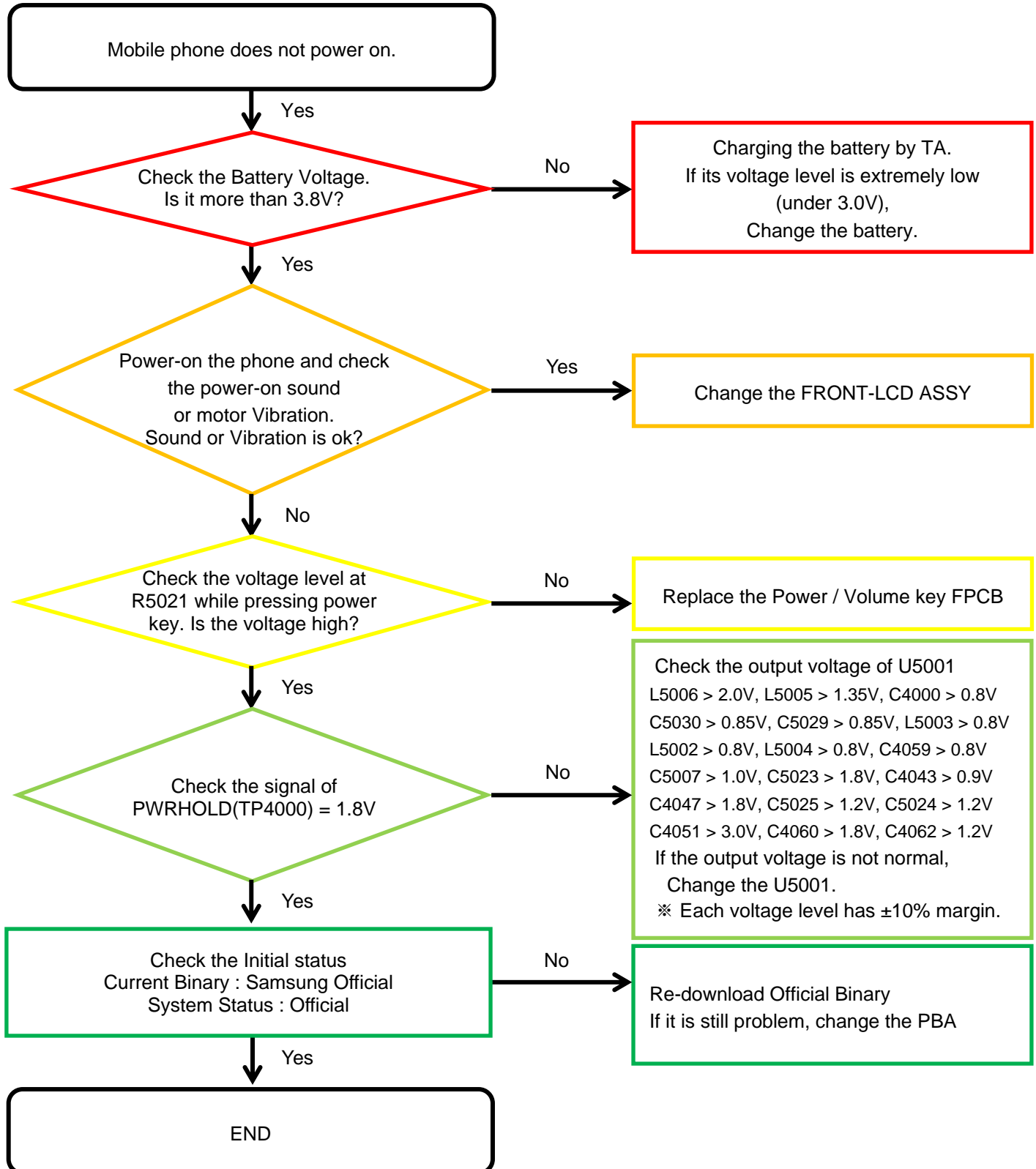
8. Level 3 Repair

8-3. Flow chart of Troubleshooting.

	
<p>Oscilloscope</p>	<p>Digital Multimeter</p>
	
<p>Power Supply</p>	<p>+ driver, ESD Safe Tweezer</p>
	
<p>8960 & Spectrum Analyzer</p>	<p>Soldering iron</p>

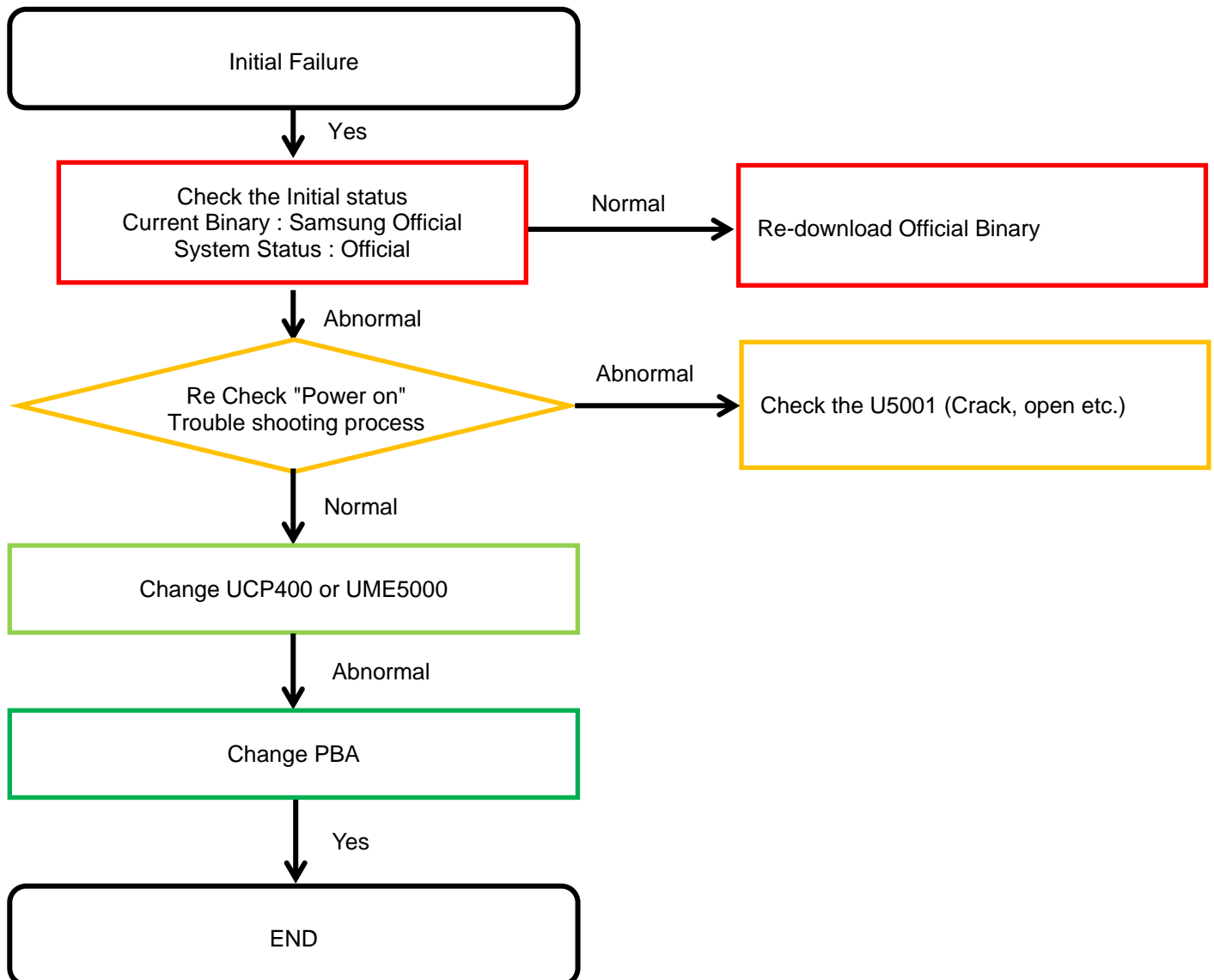
8. Level 3 Repair

8-4-1. Power On



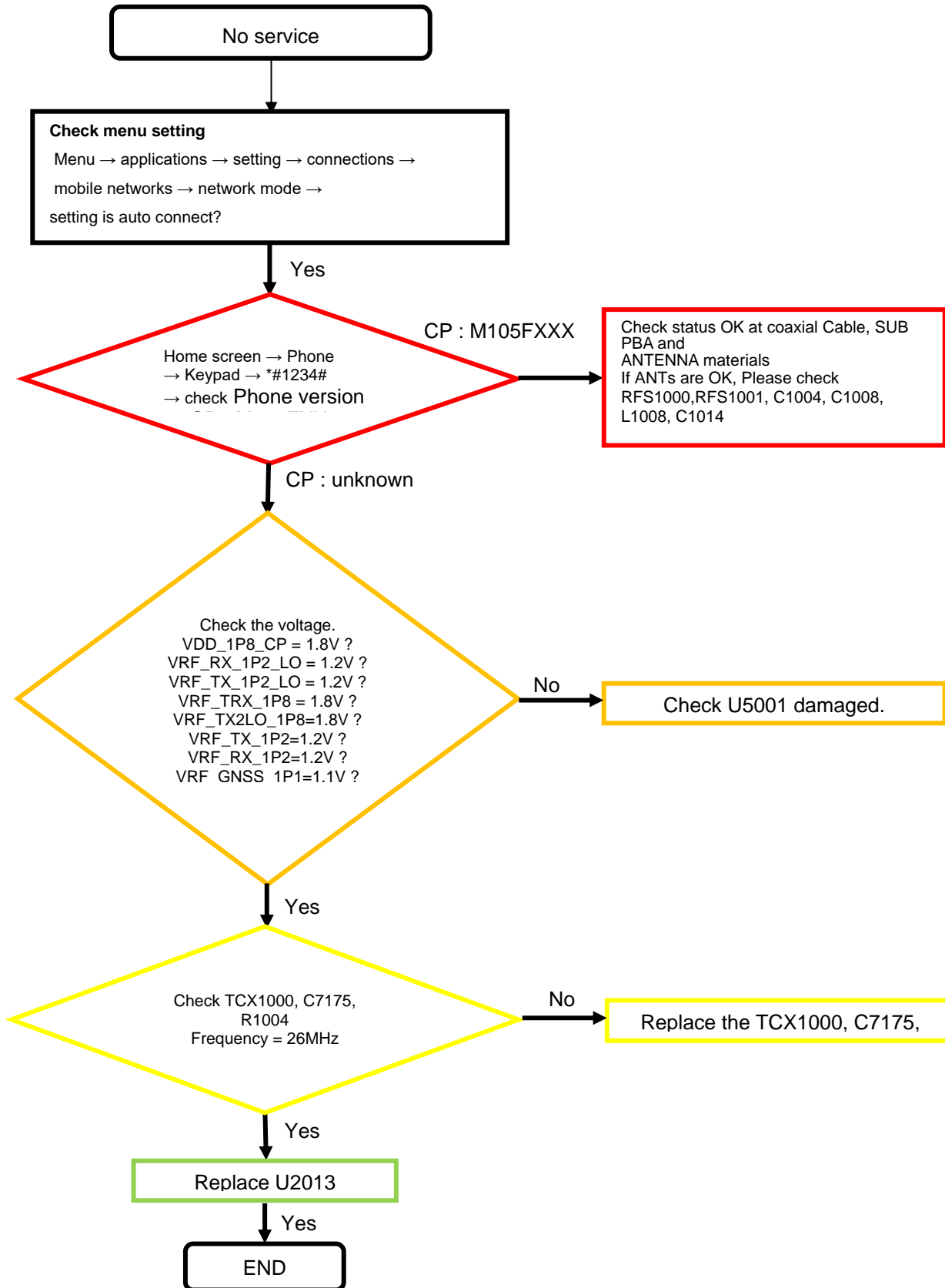
8. Level 3 Repair

8-4-2. Initial



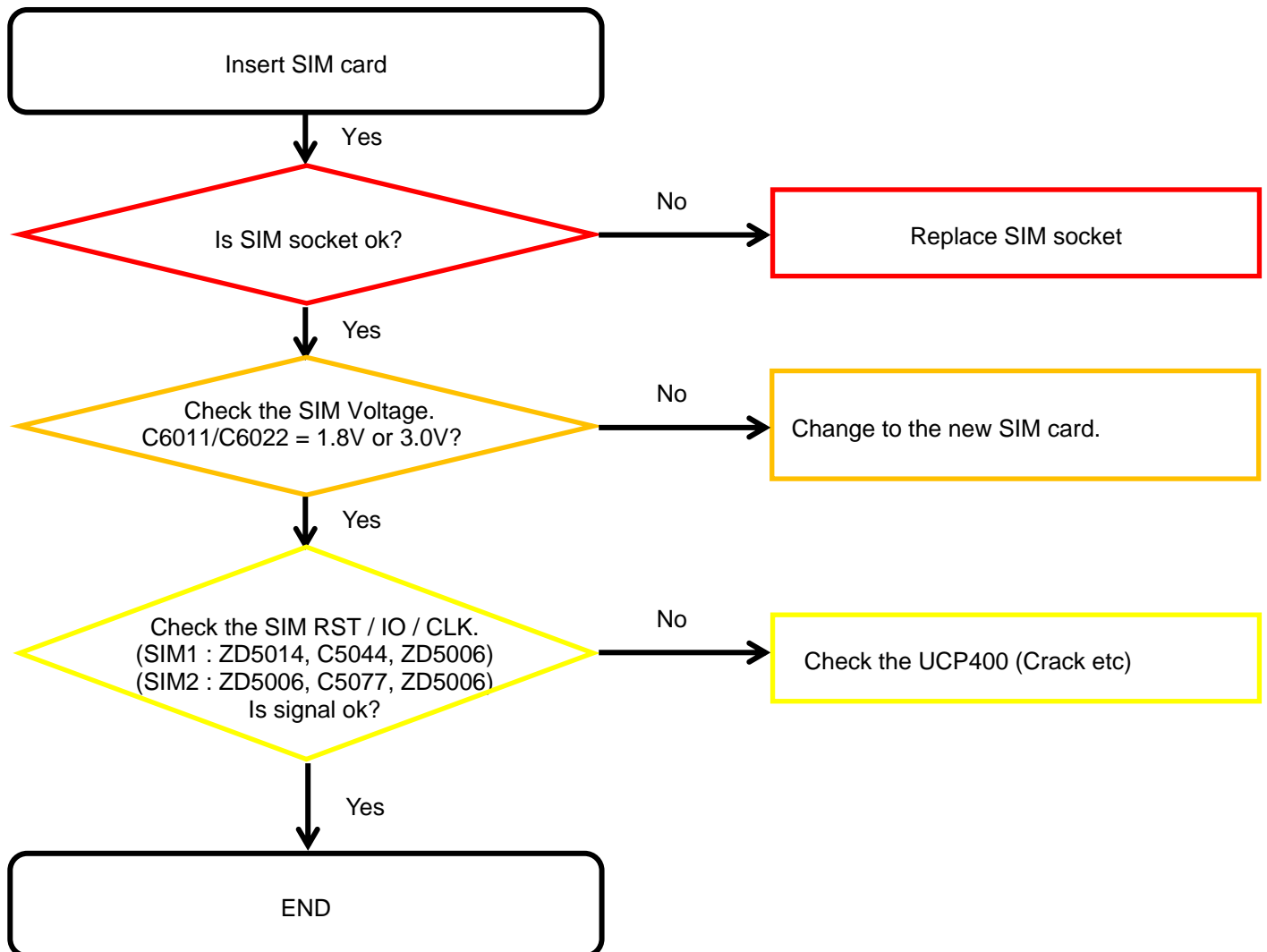
8. Level 3 Repair

8-4-3. No Service



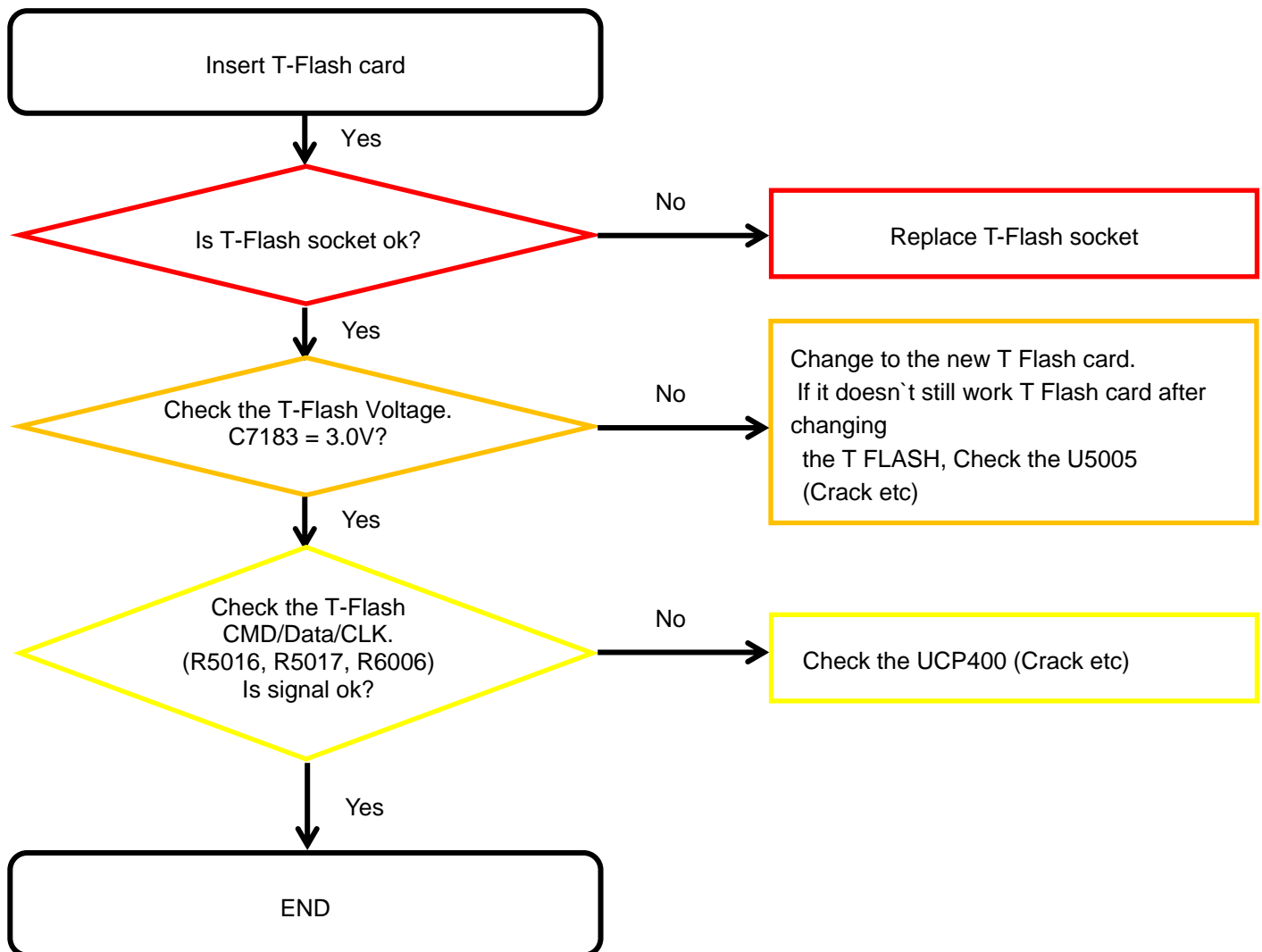
8. Level 3 Repair

8-4-4. SIM Part



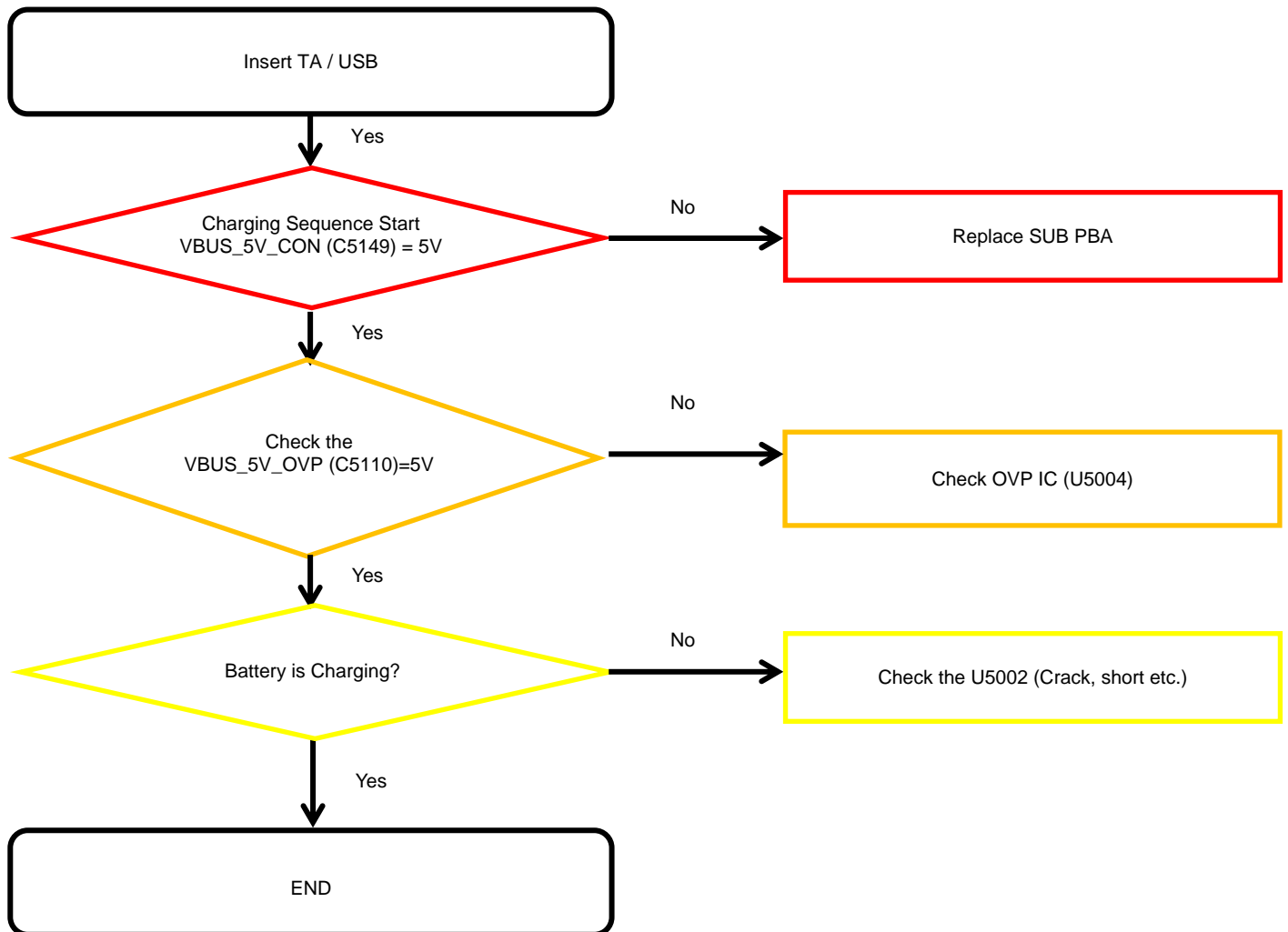
8. Level 3 Repair

8-4-5. T-Flash Part



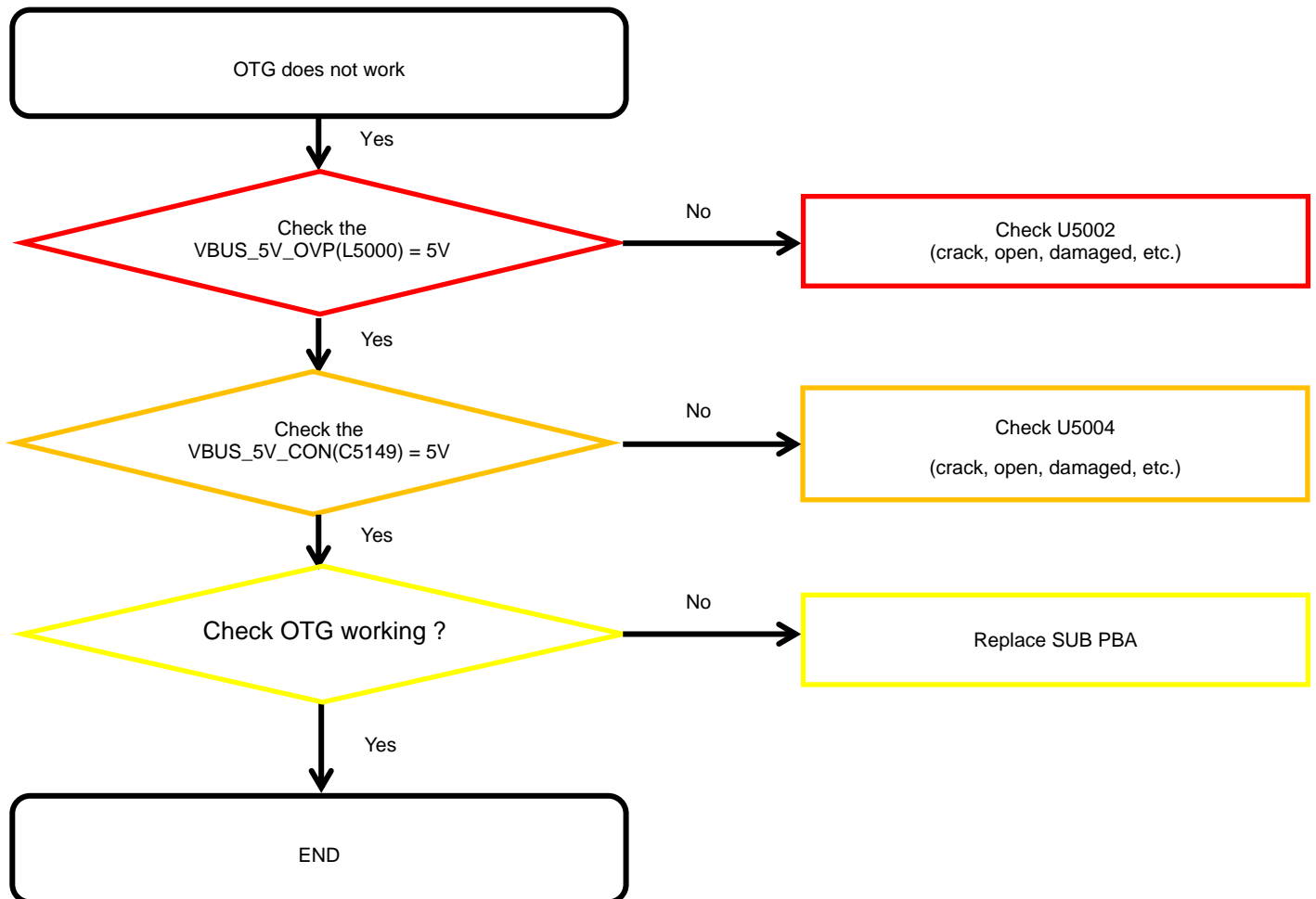
8. Level 3 Repair

8-4-6. Charging Part



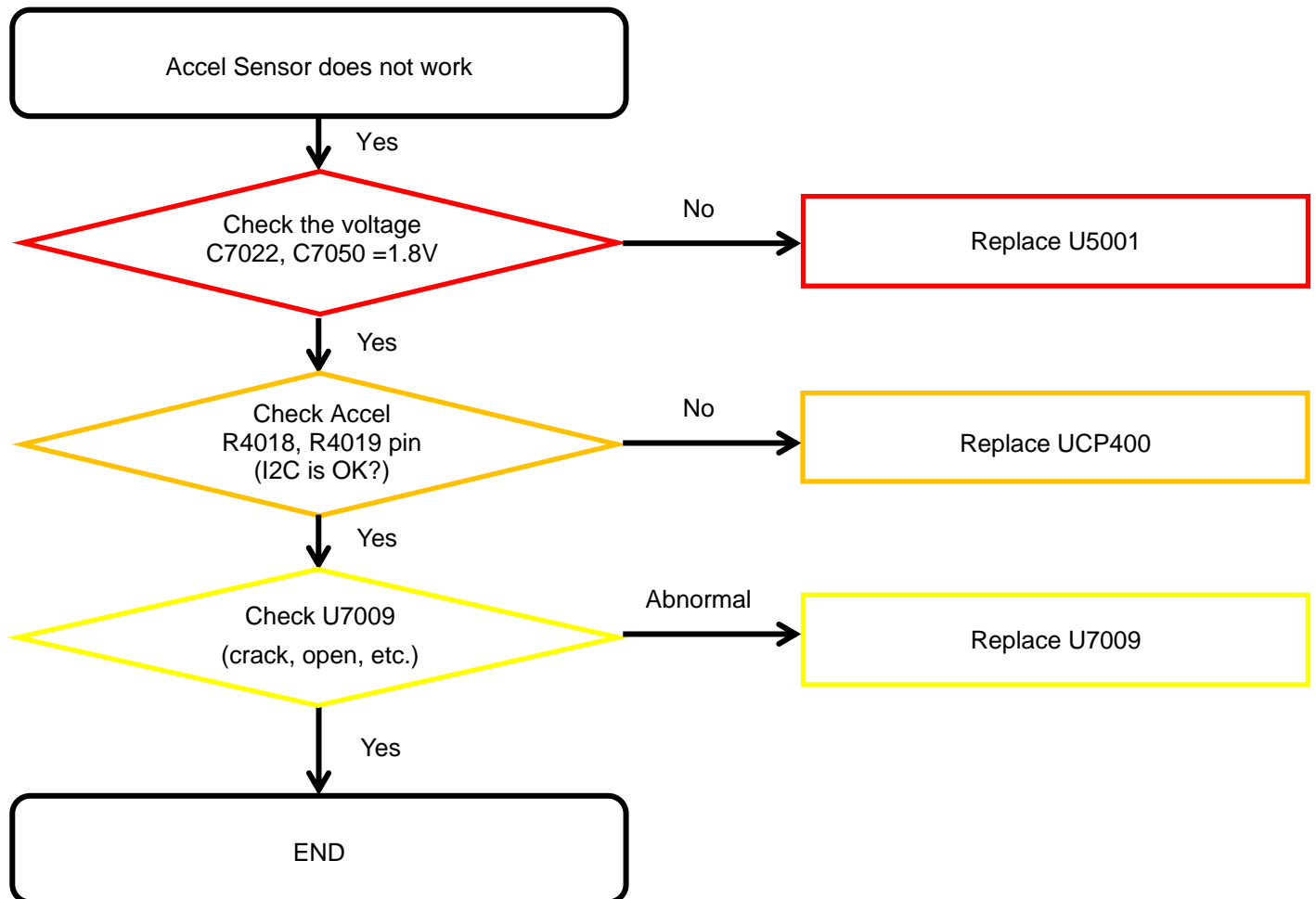
8. Level 3 Repair

8-4-7. OTG



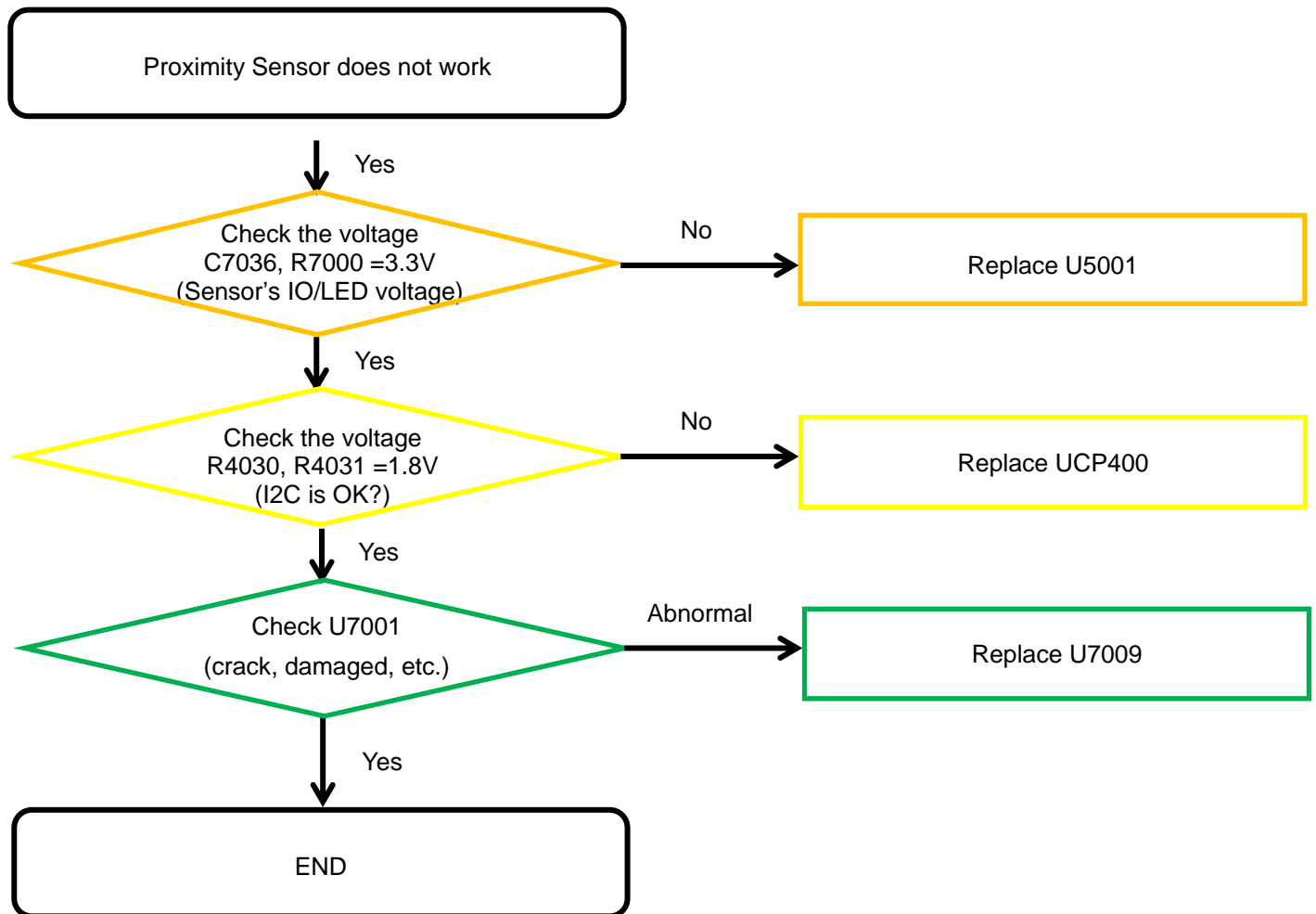
8. Level 3 Repair

8-4-8-1. Accel Sensor



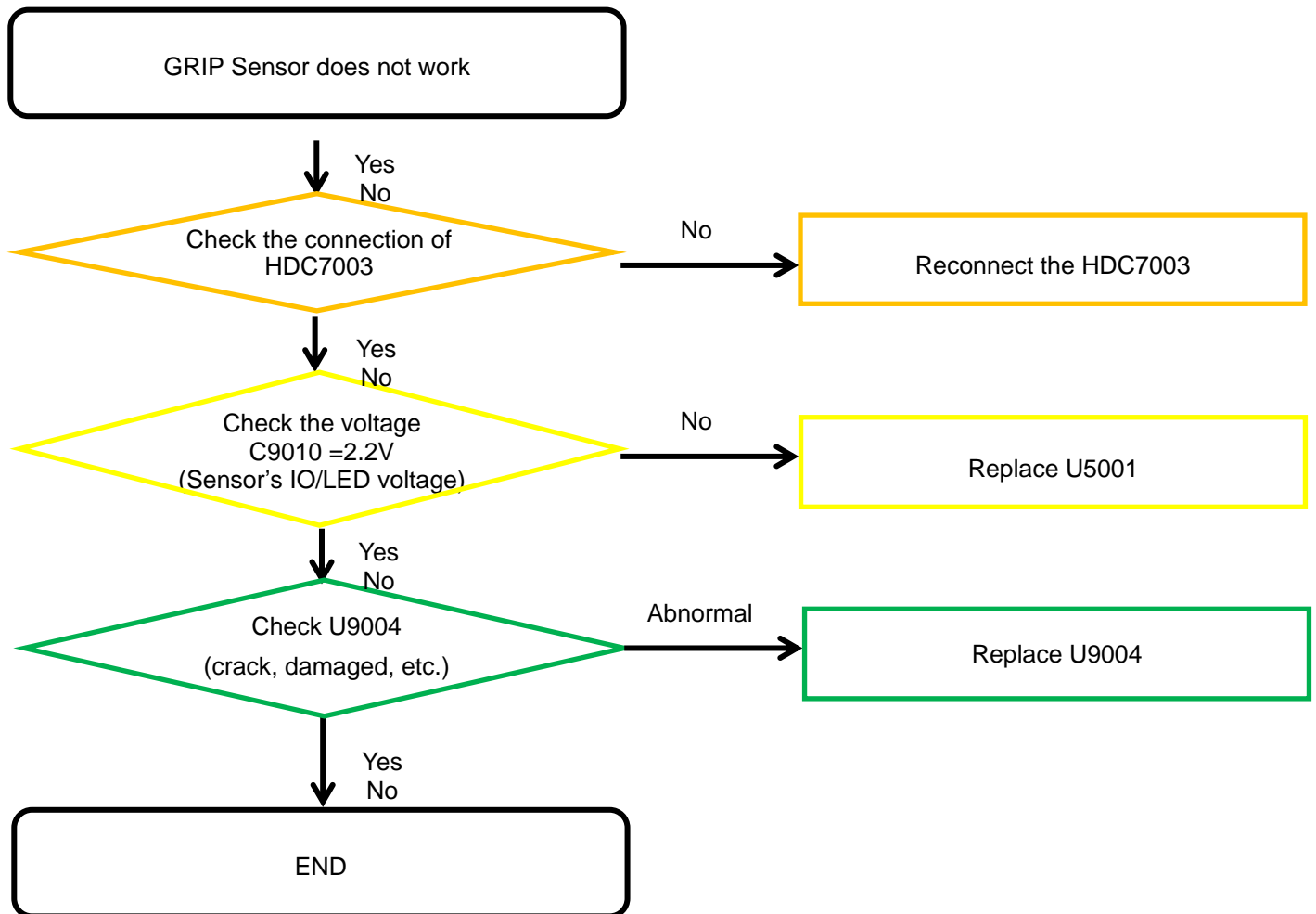
8. Level 3 Repair

8-4-8-2. Proximity Sensor



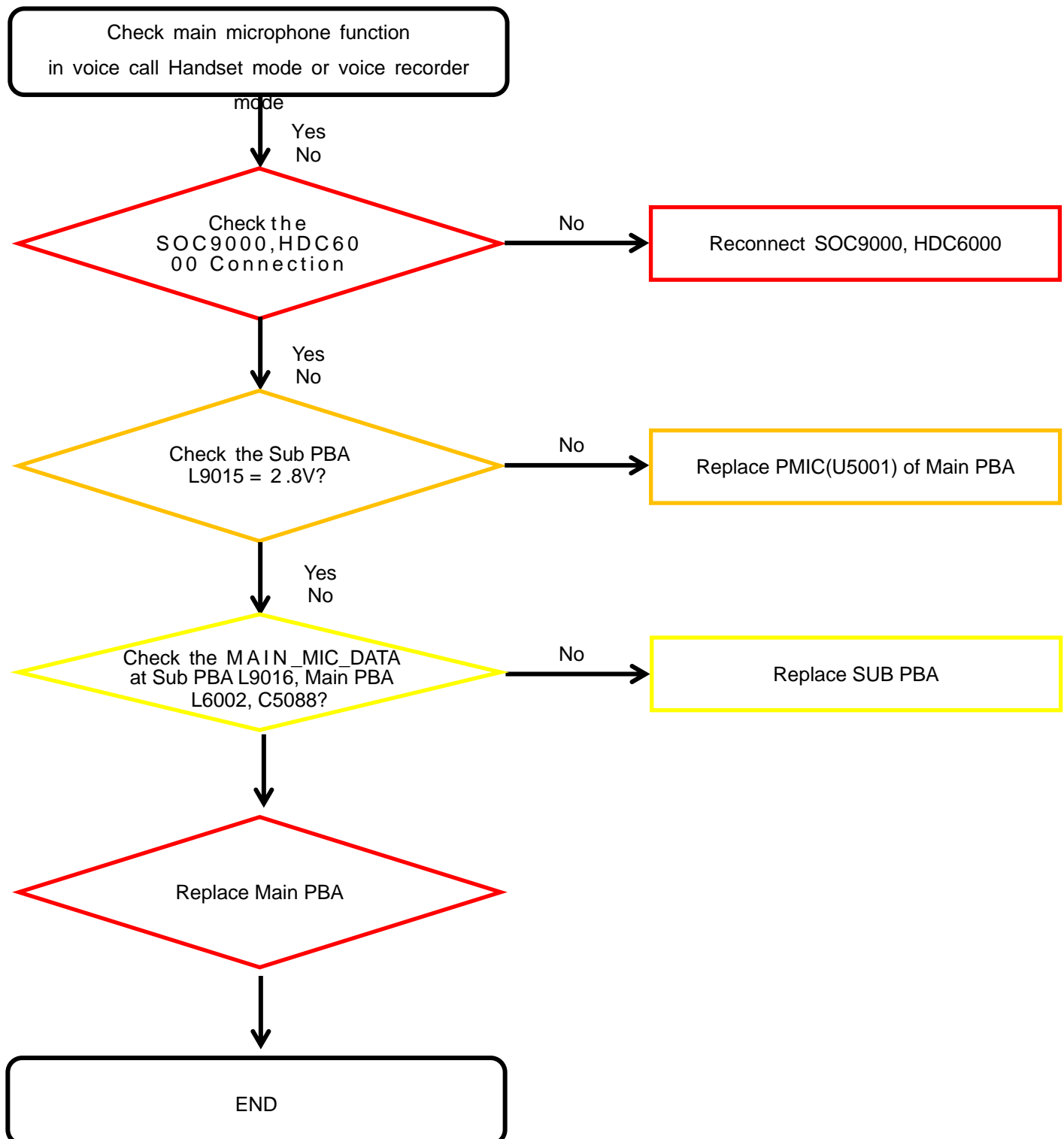
8. Level 3 Repair

8-4-8-3. GRIP Sensor [SM-M105G/M/Y]



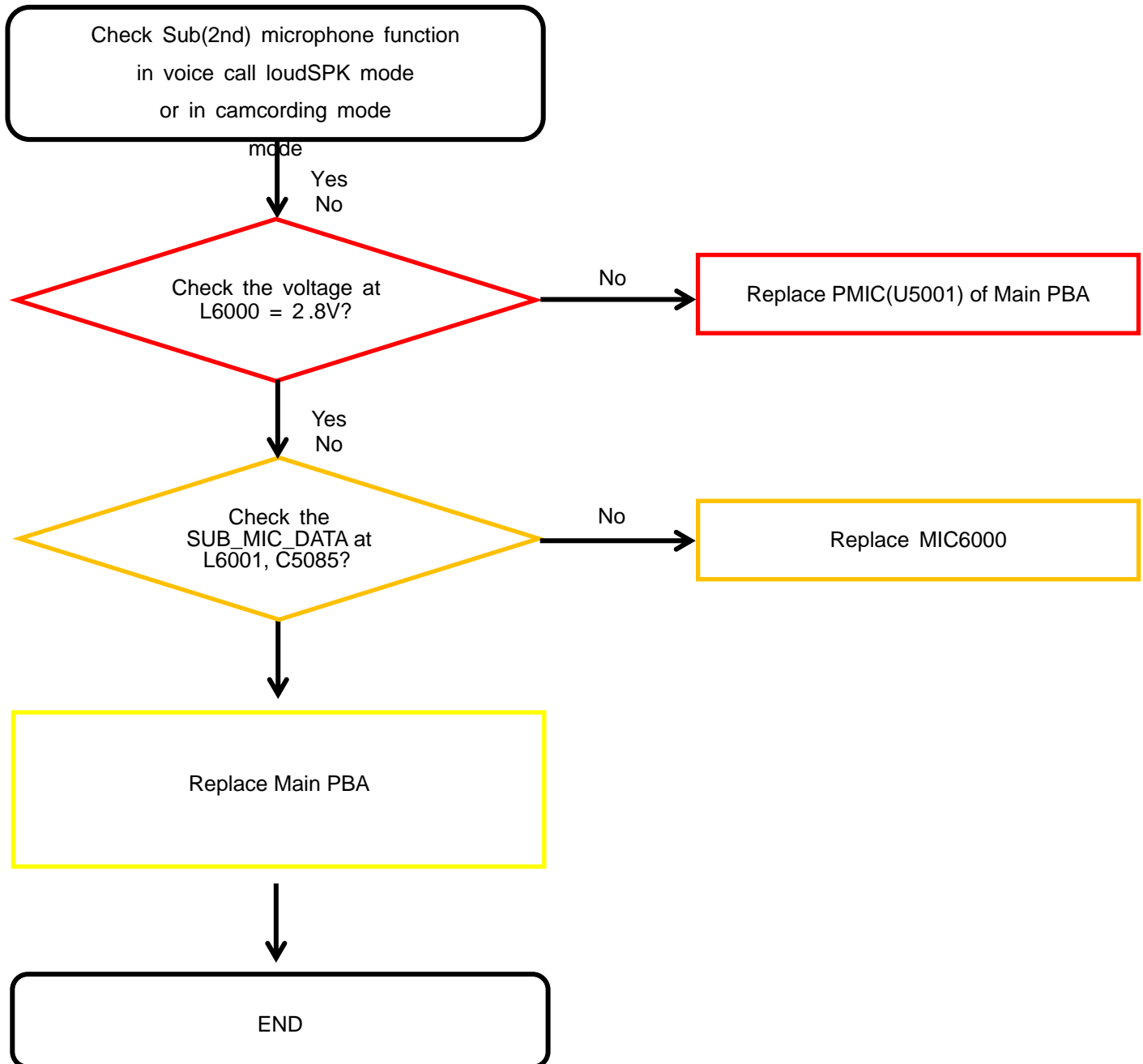
8. Level 3 Repair

8-4-9-1. Microphone Part - Main MIC



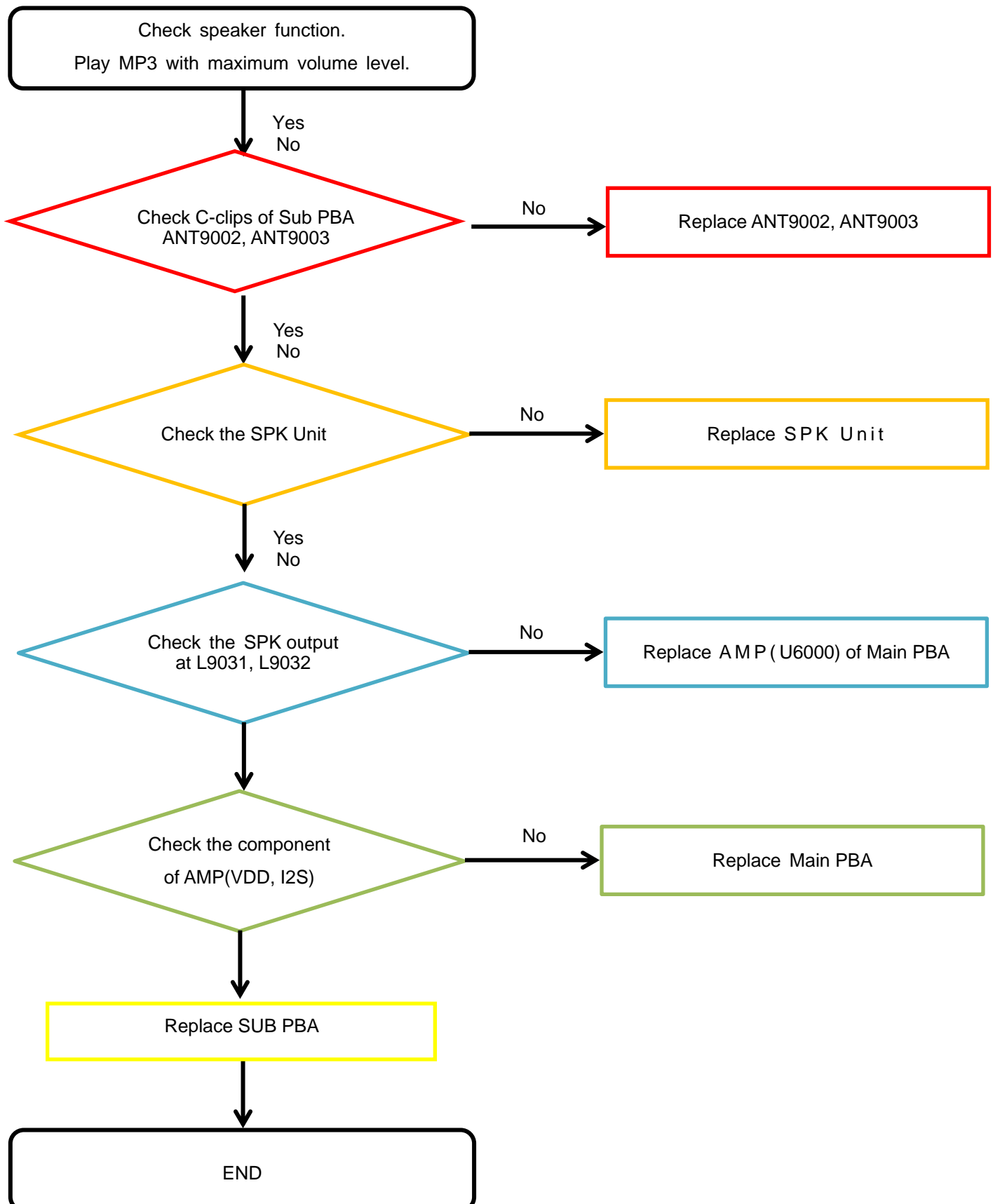
8. Level 3 Repair

8-4-9-2. Microphone Part - Sub(2nd) MIC



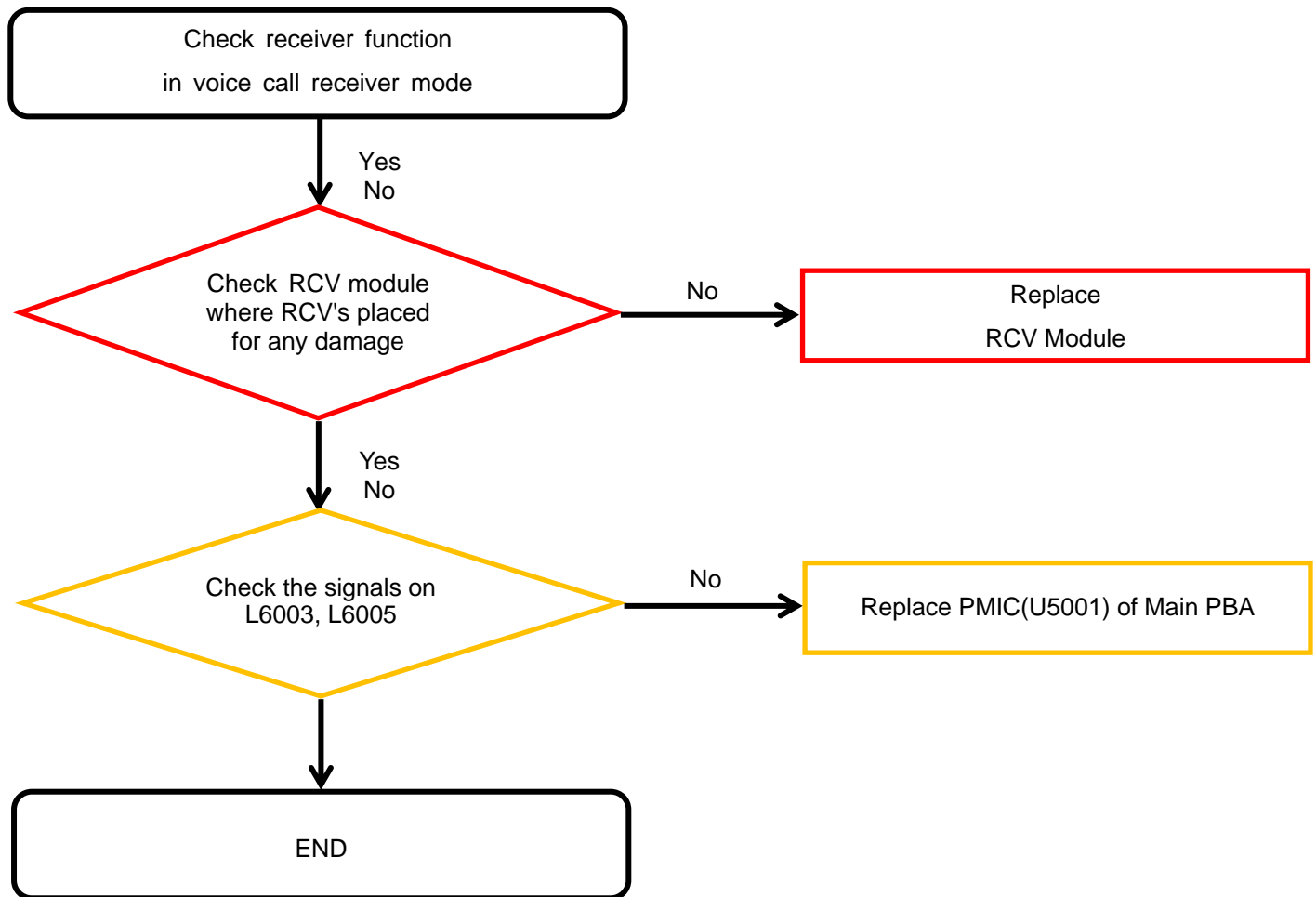
8. Level 3 Repair

8-4-10. Speaker Part



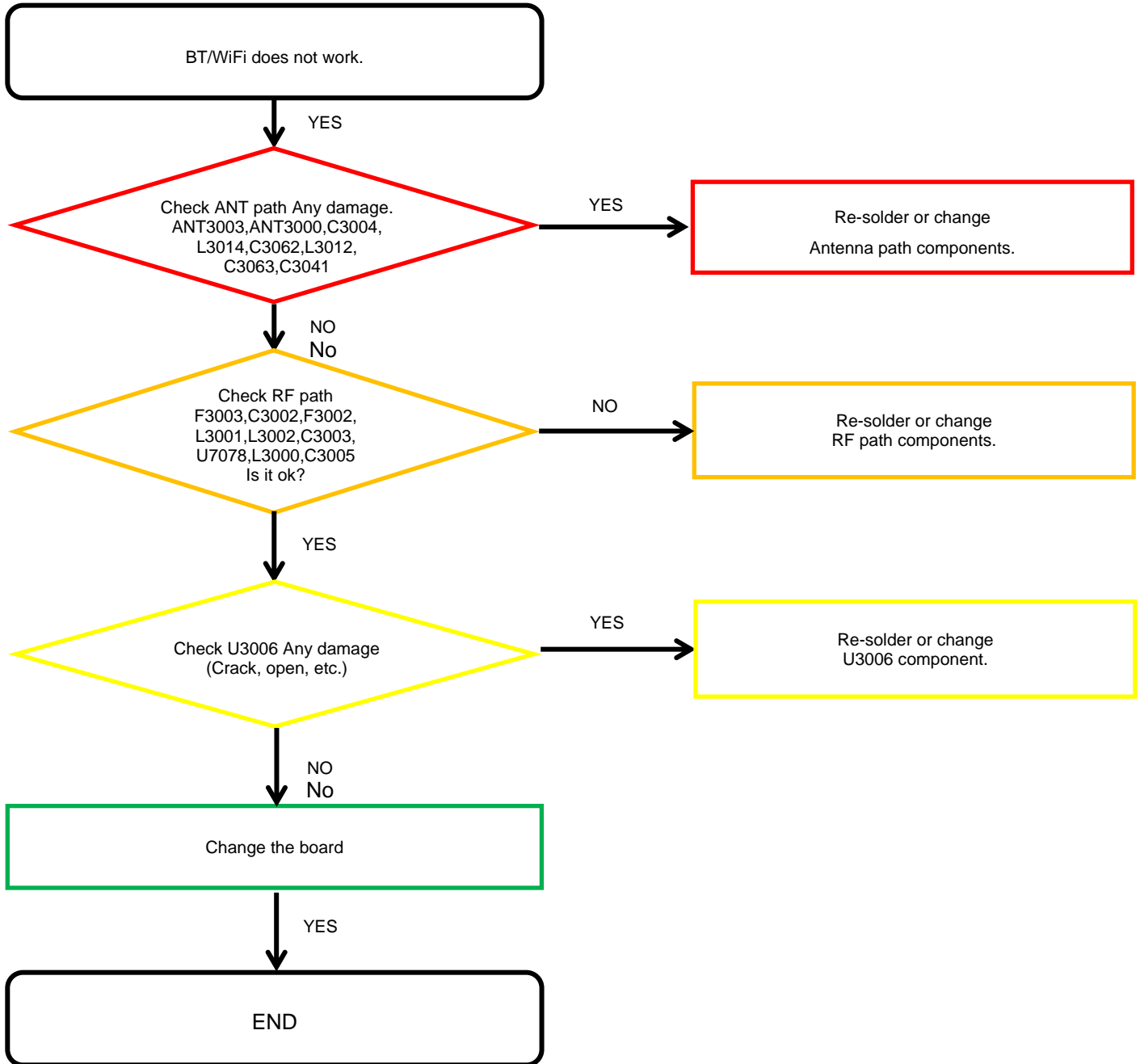
8. Level 3 Repair

8-4-11. Receiver Part



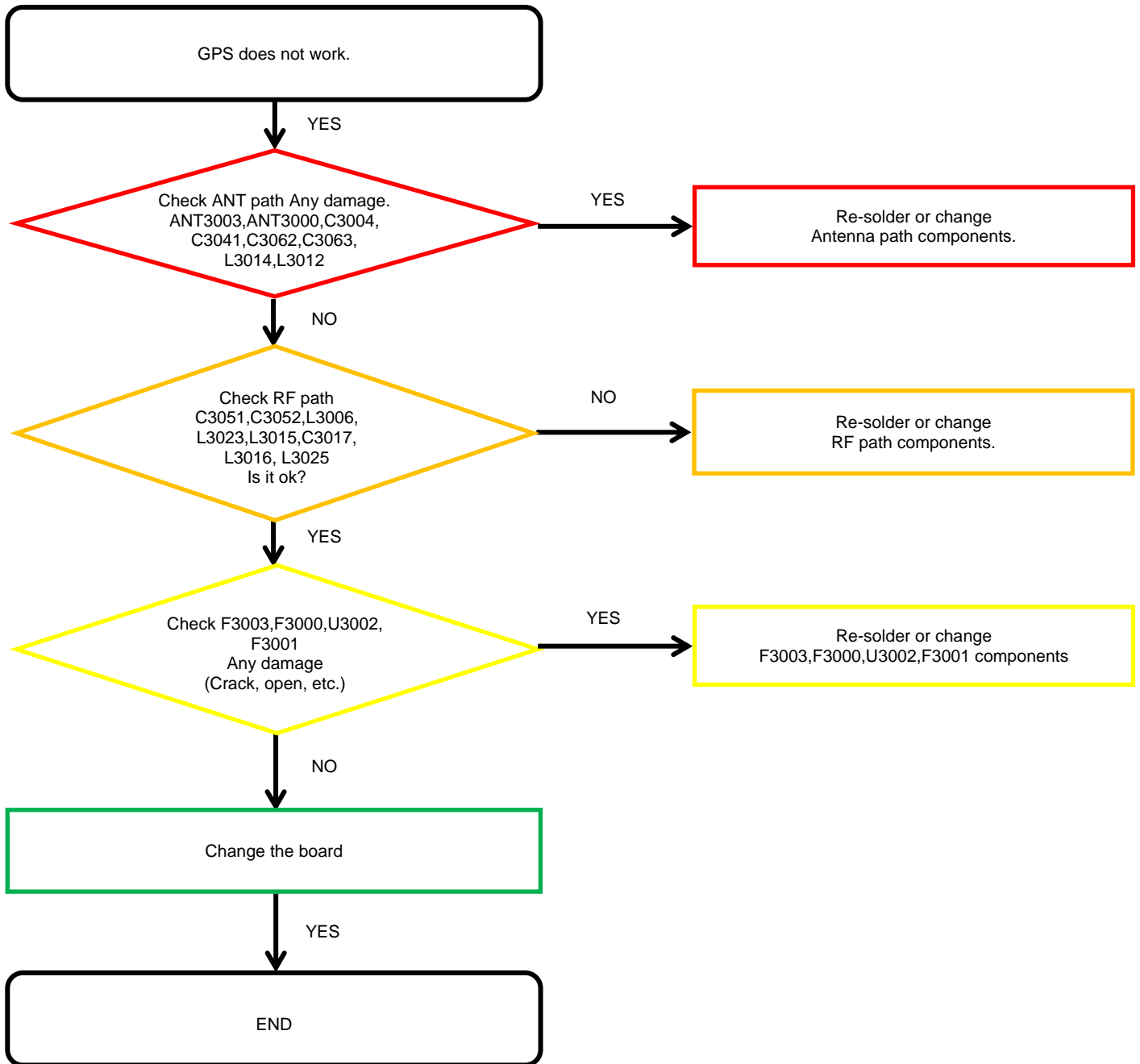
8. Level 3 Repair

8-4-12. BT/WLAN



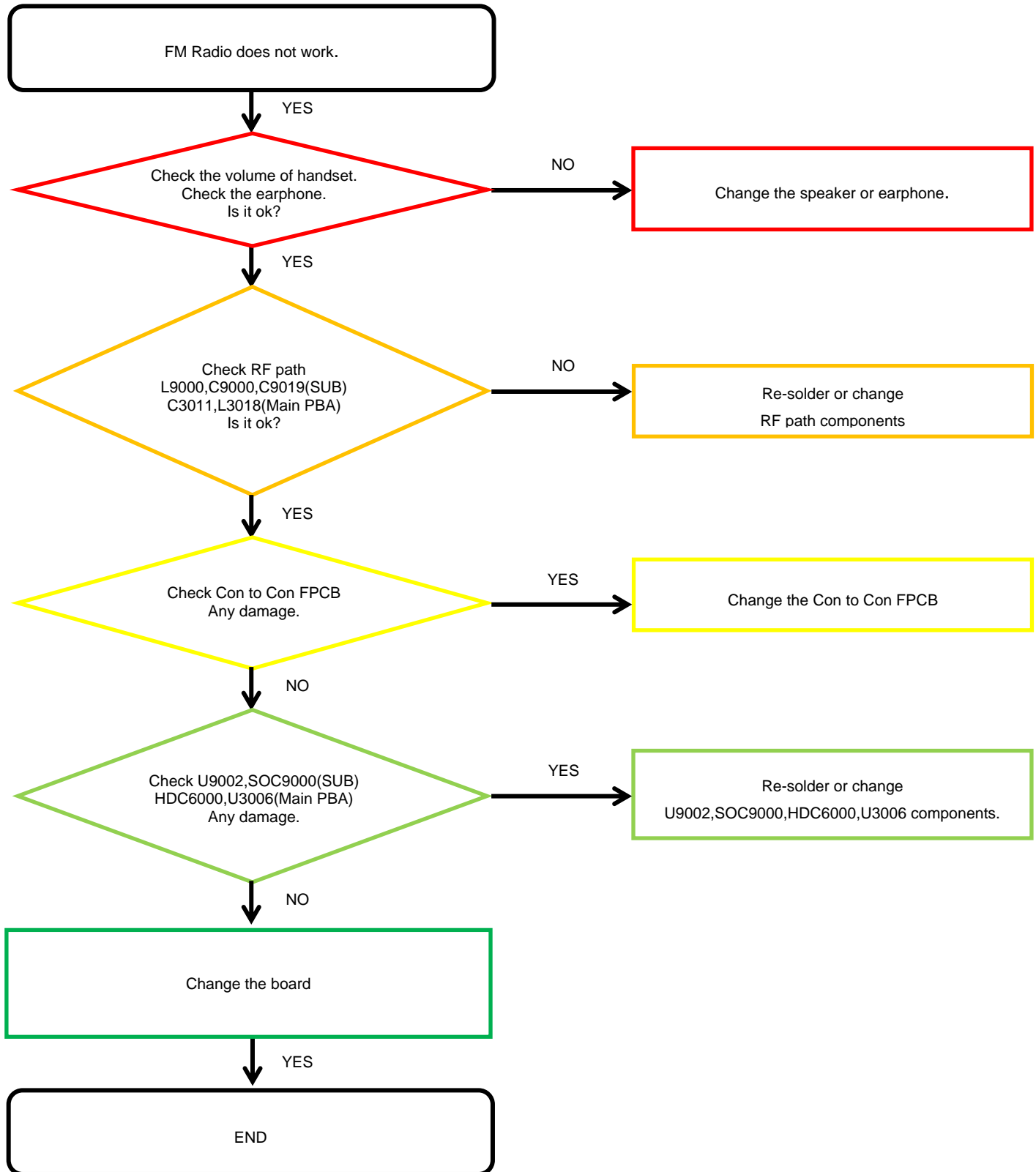
8. Level 3 Repair

8-4-13. GPS



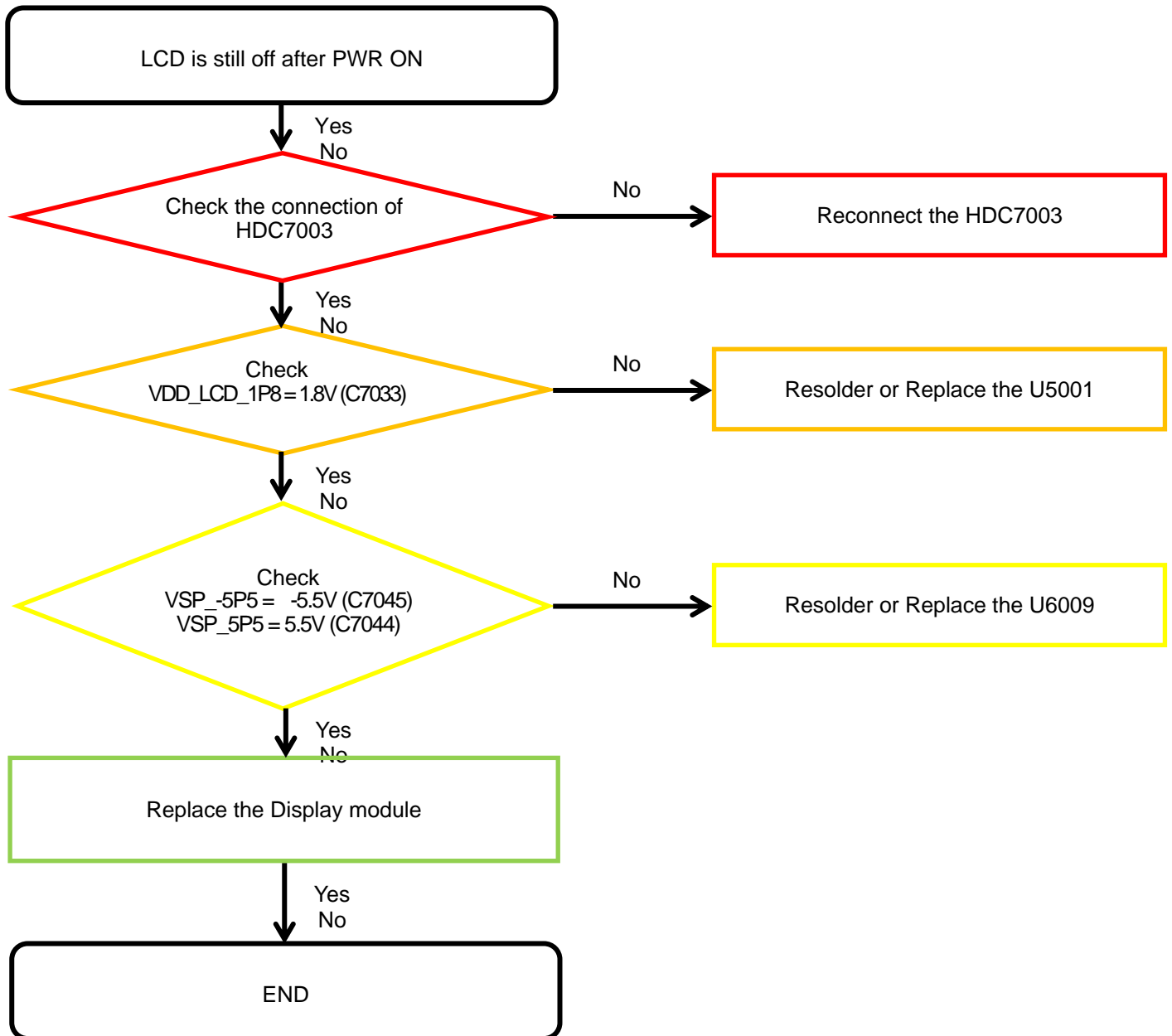
8. Level 3 Repair

8-4-14. FM Radio



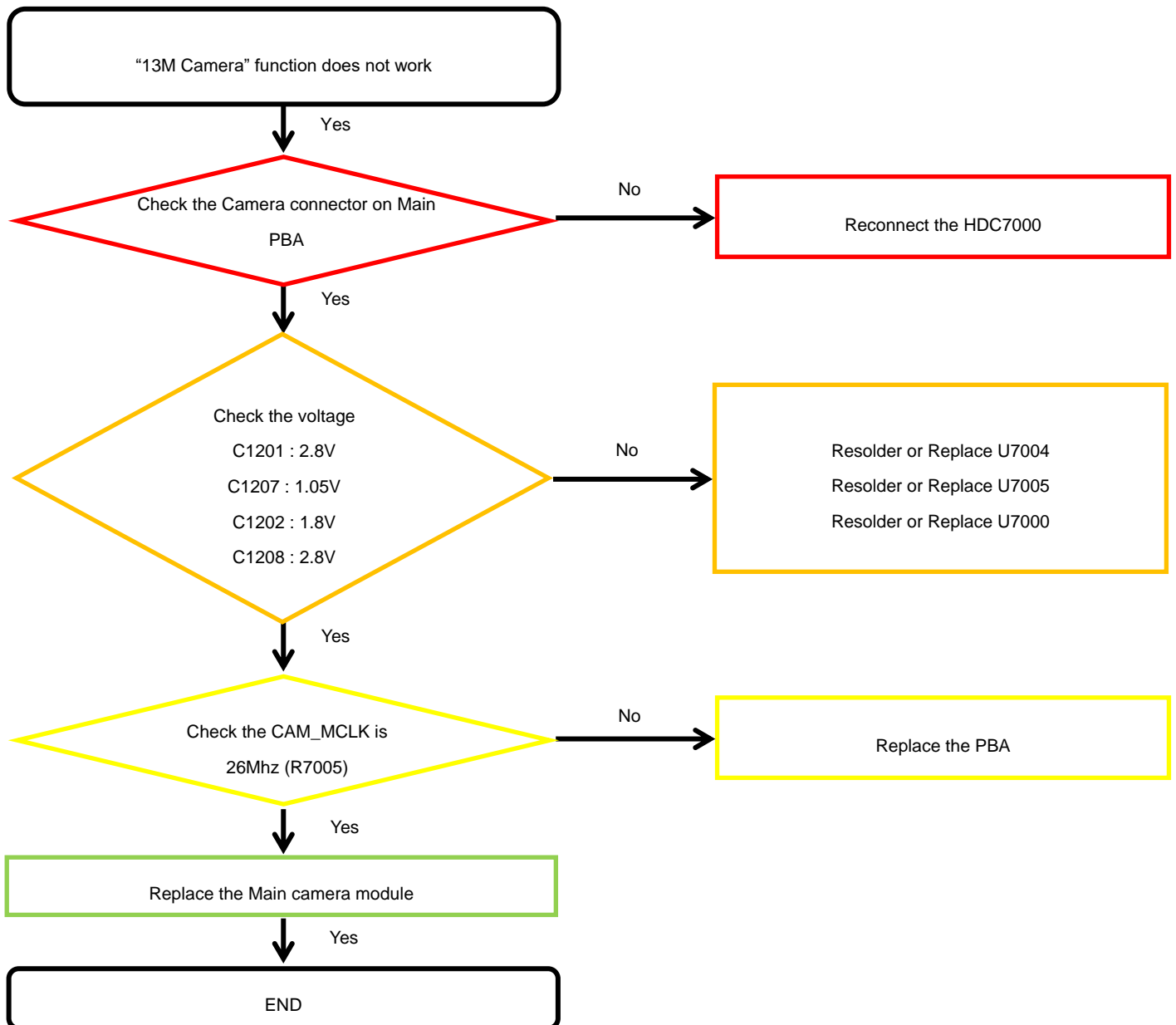
8. Level 3 Repair

8-4-15. Display



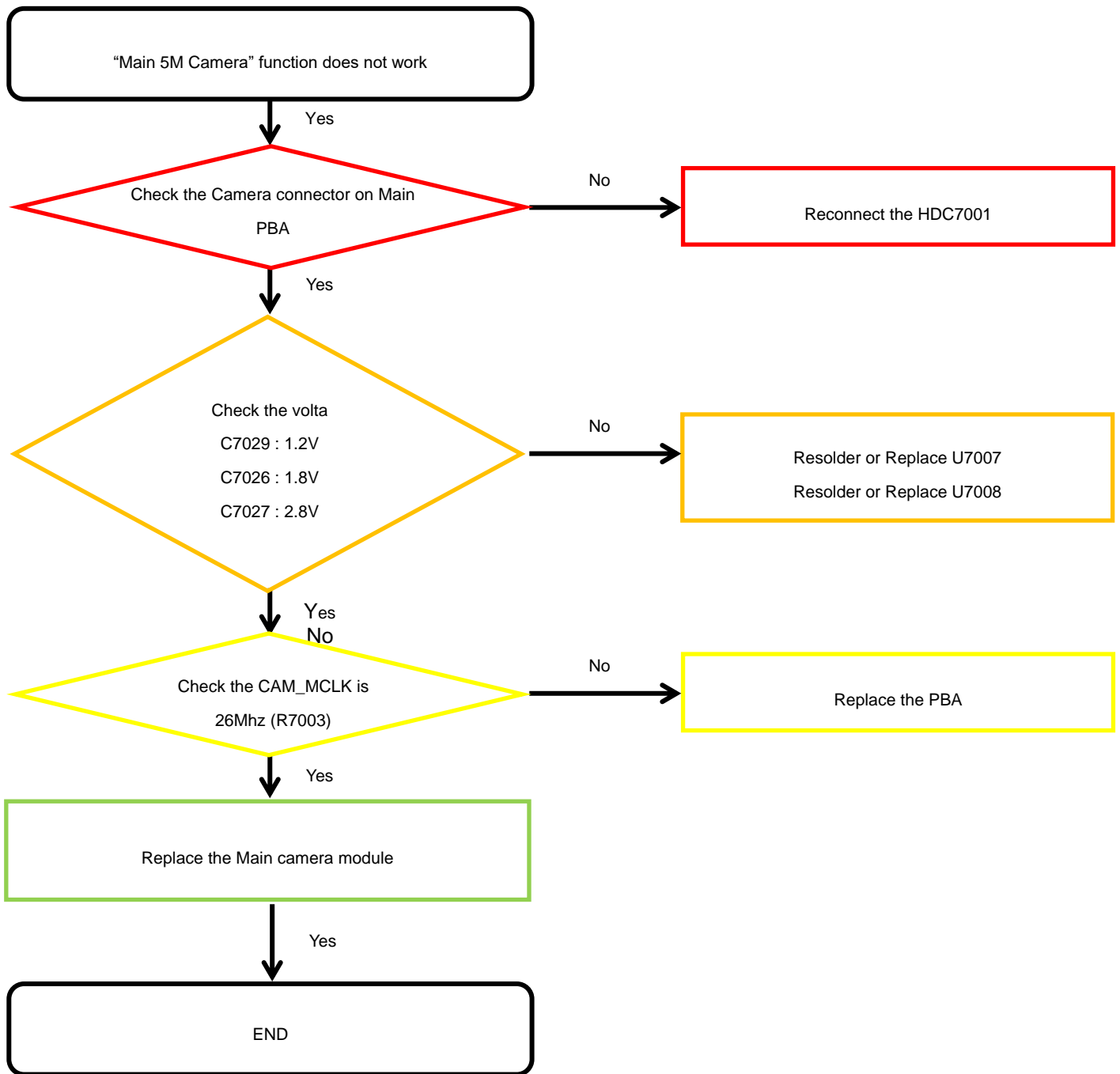
8. Level 3 Repair

8-4-16. MAIN 13M CAMERA



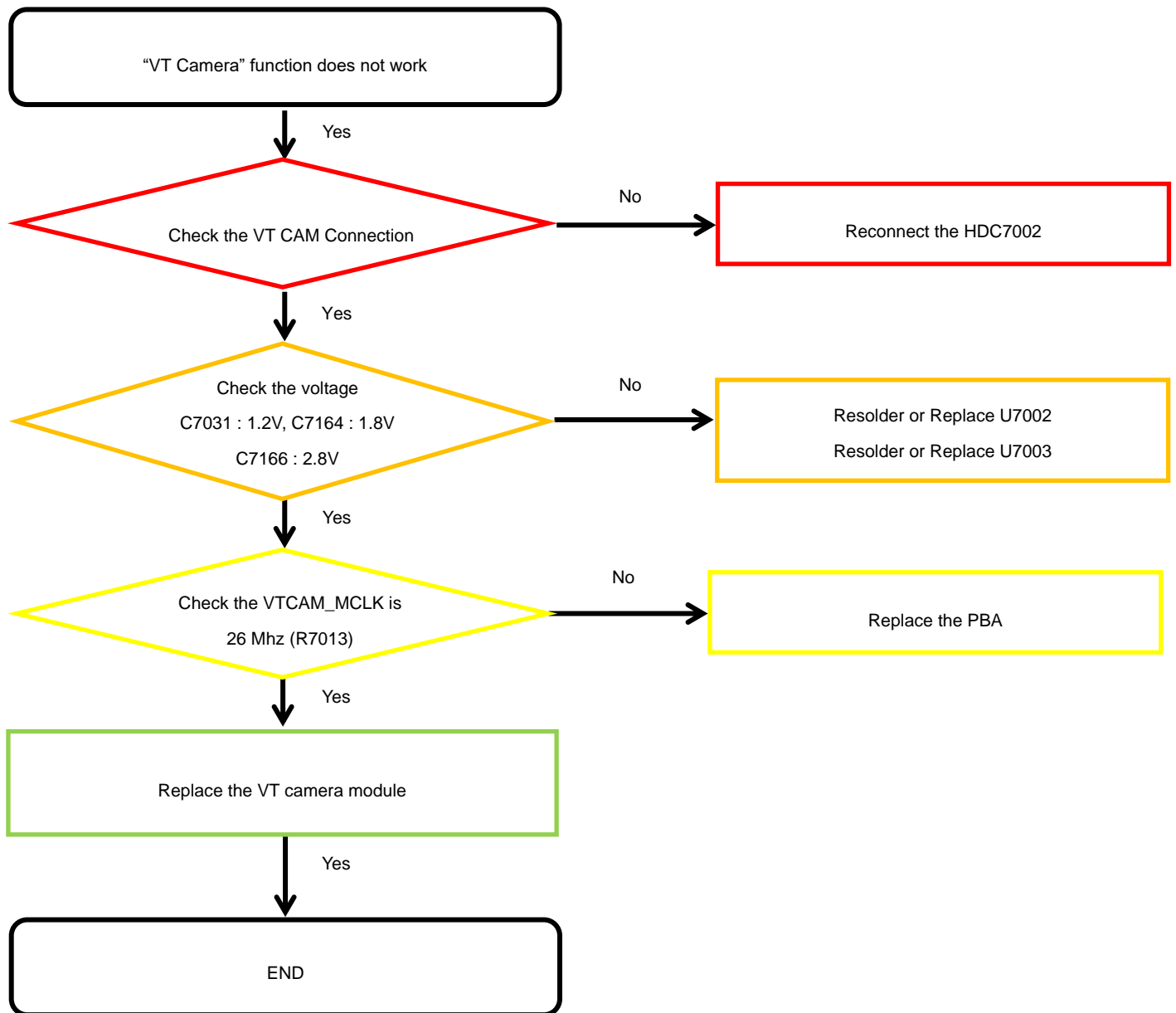
8. Level 3 Repair

8-4-17. MAIN 5M CAMERA



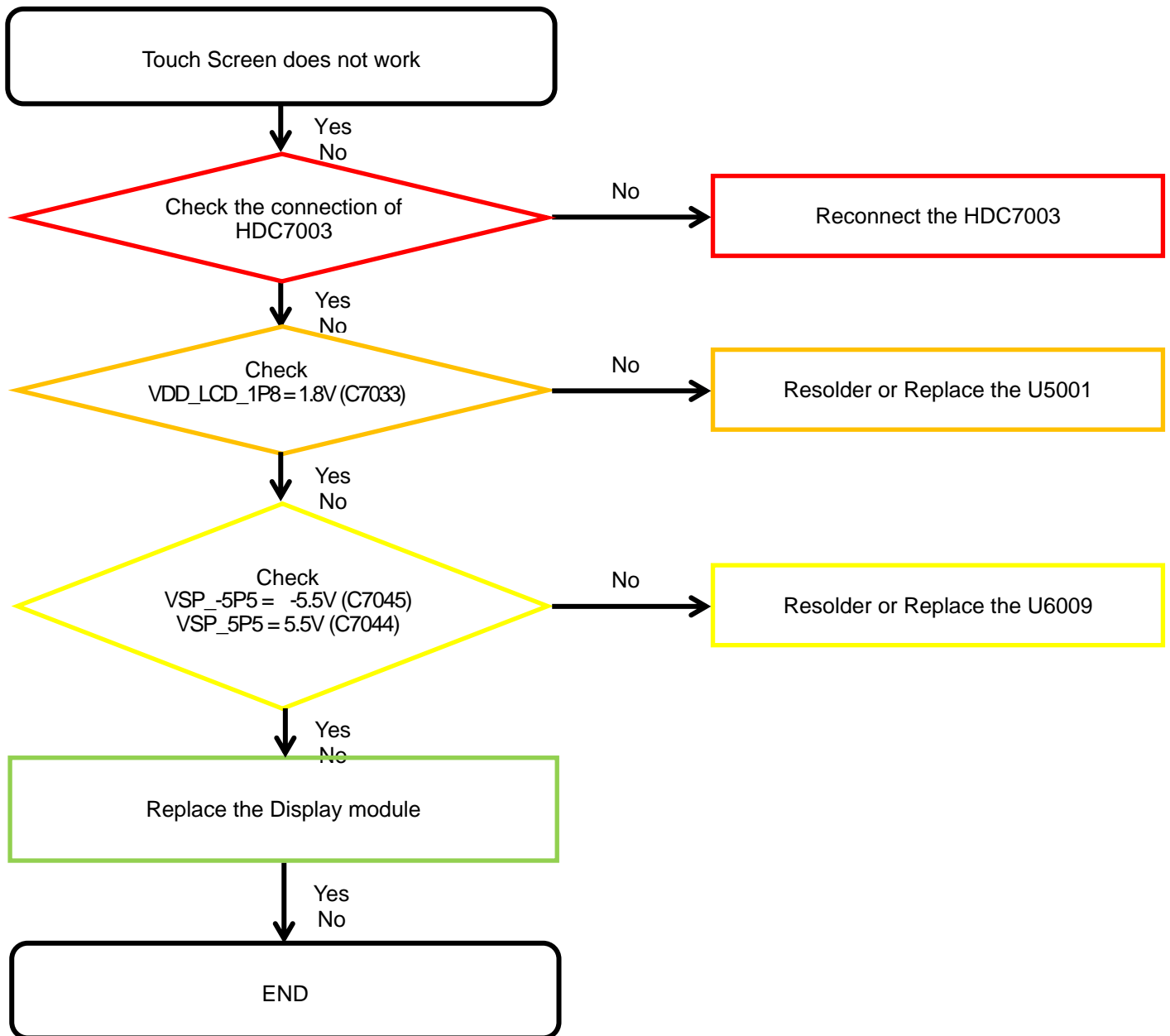
8. Level 3 Repair

8-4-18. VT 5M CAM



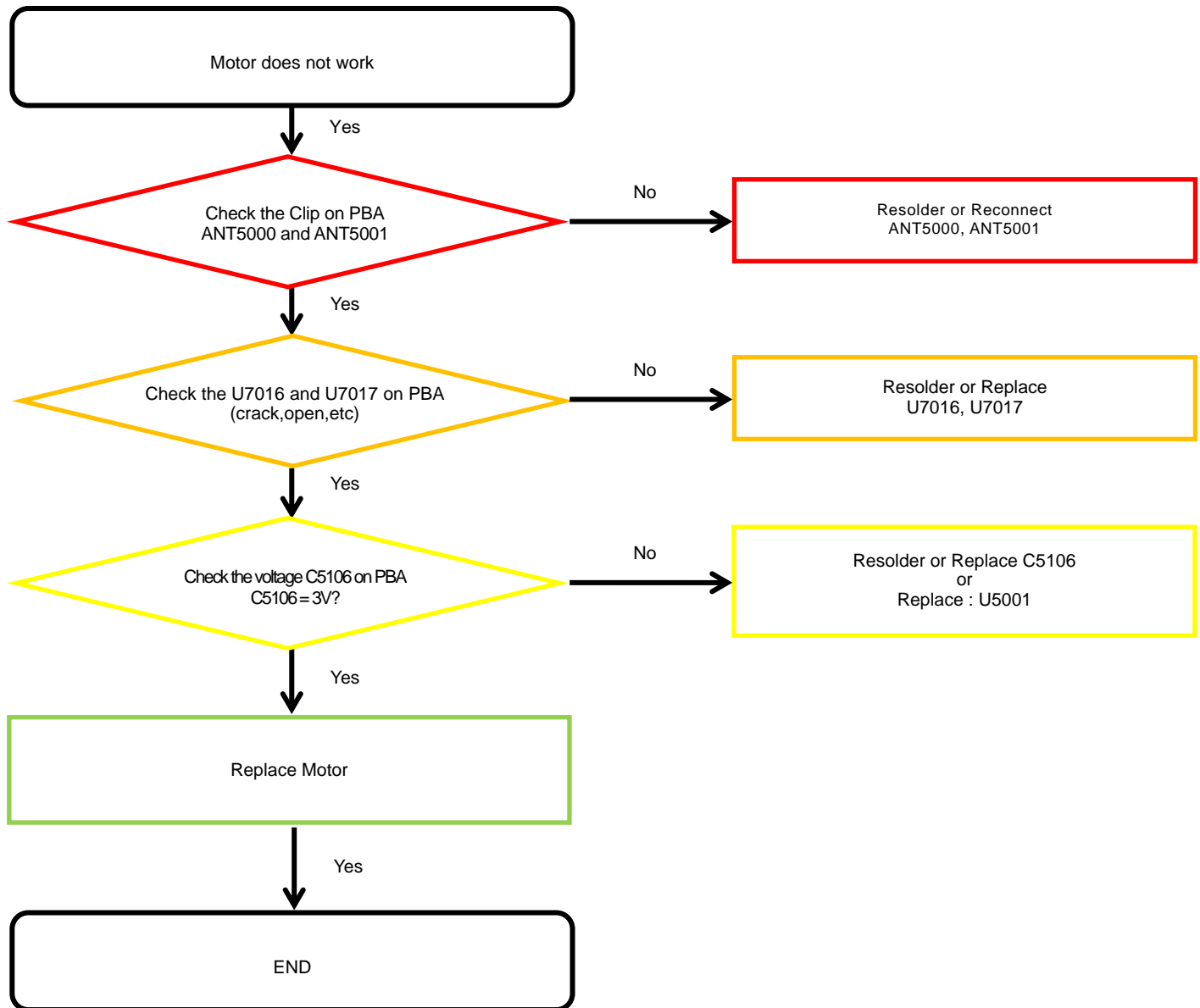
8. Level 3 Repair

8-4-19. TSP



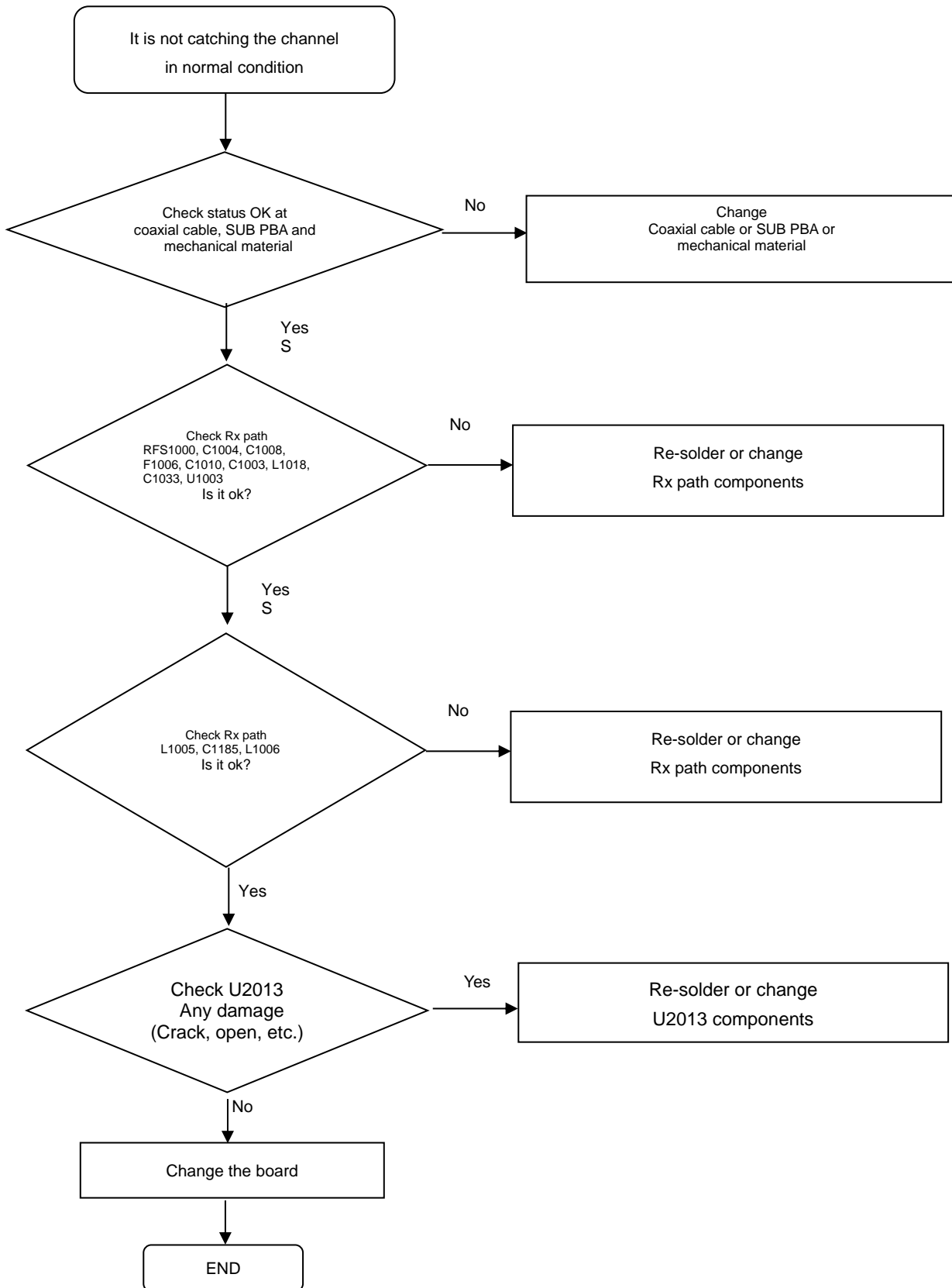
8. Level 3 Repair

8-4-20. Motor



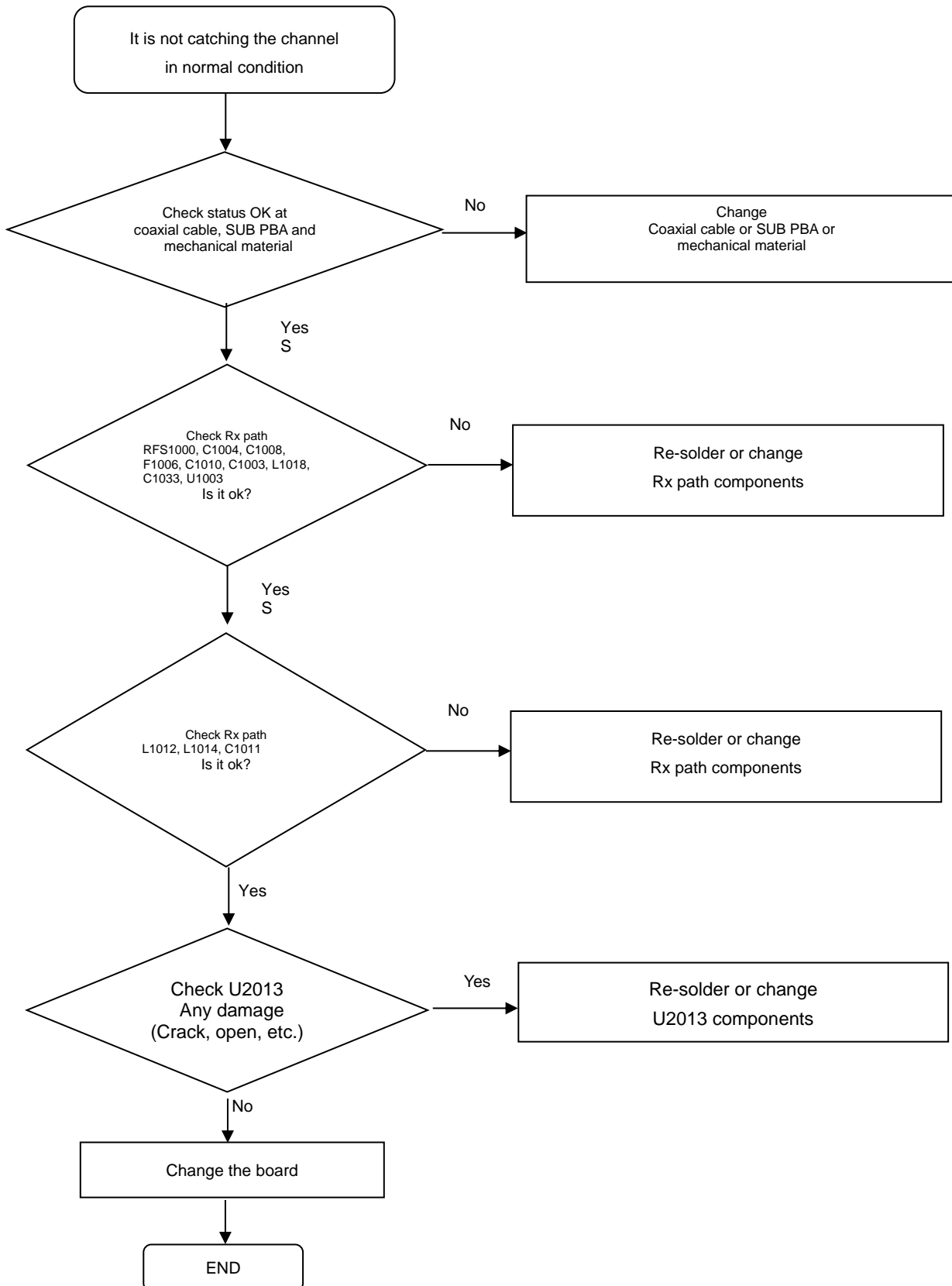
8. Level 3 Repair

8-4-21. WCDMA B1, LTE B1/ WCDMA B4, LTE B4 [SM-M105M] RX



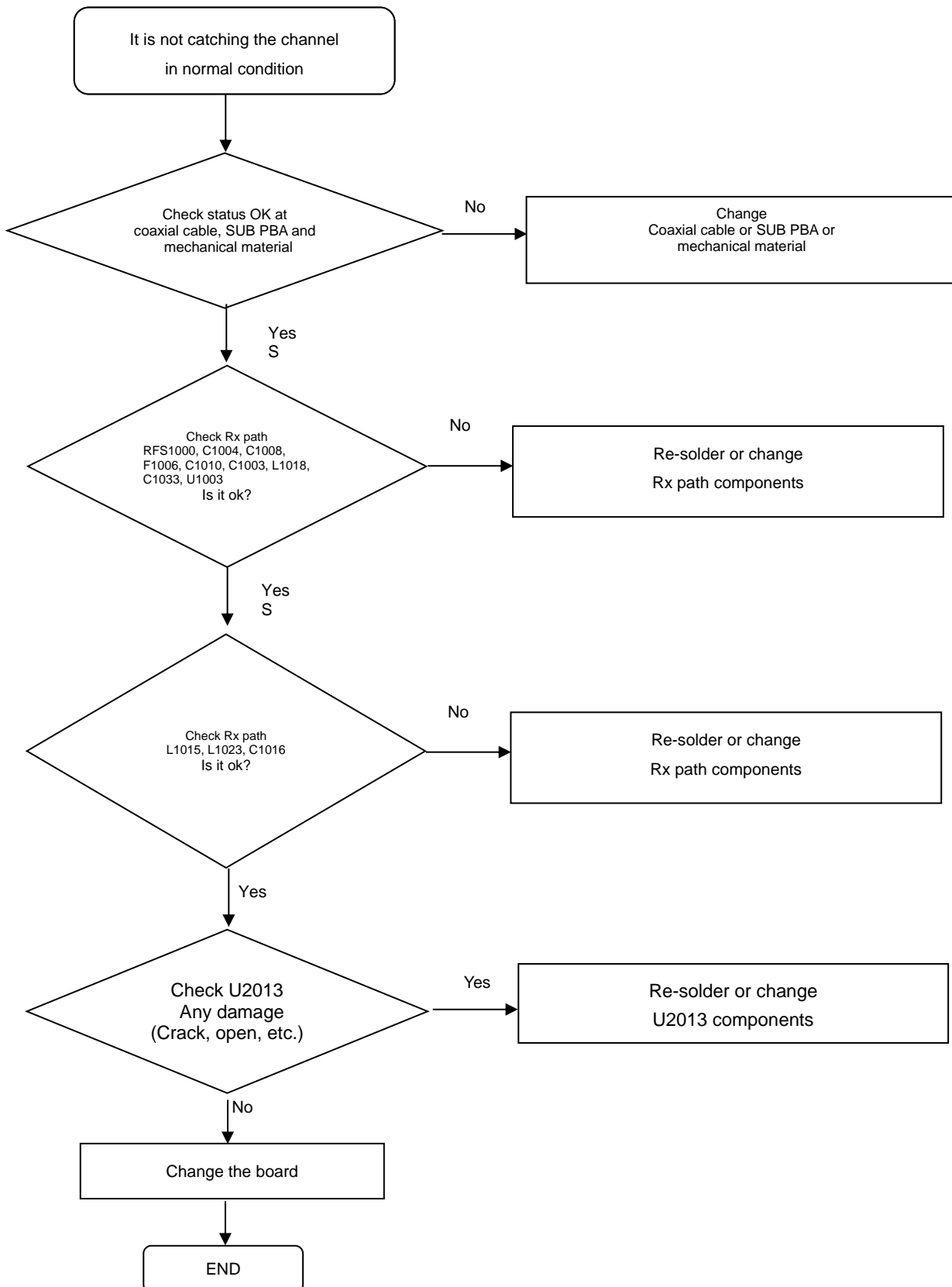
8. Level 3 Repair

8-4-22. WCDMA B2 [SM-M105M/Y]/ LTE B2, GSM1900 RX[SM-M105M]



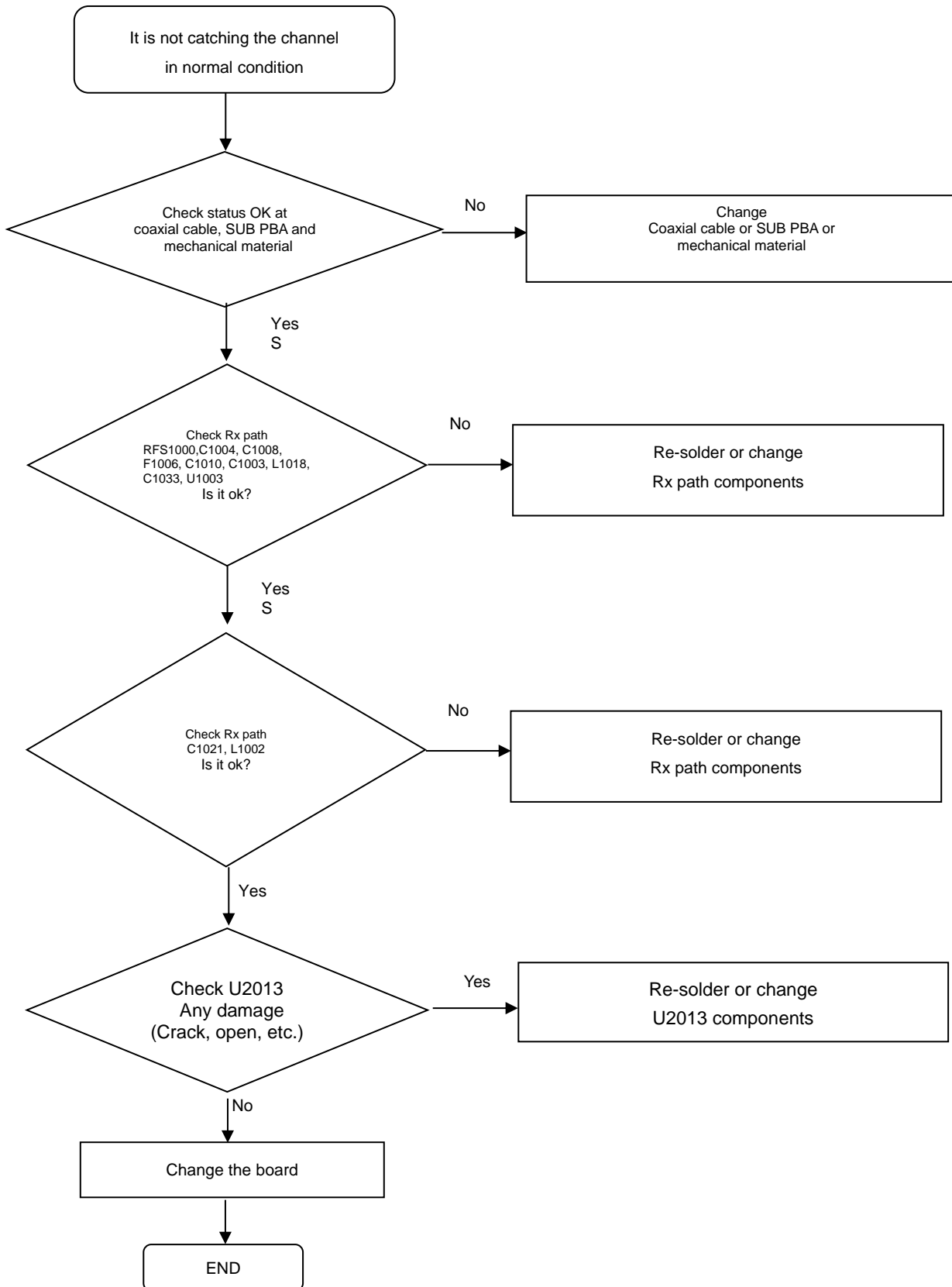
8. Level 3 Repair

8-4-23. LTE B3, GSM 1800 RX



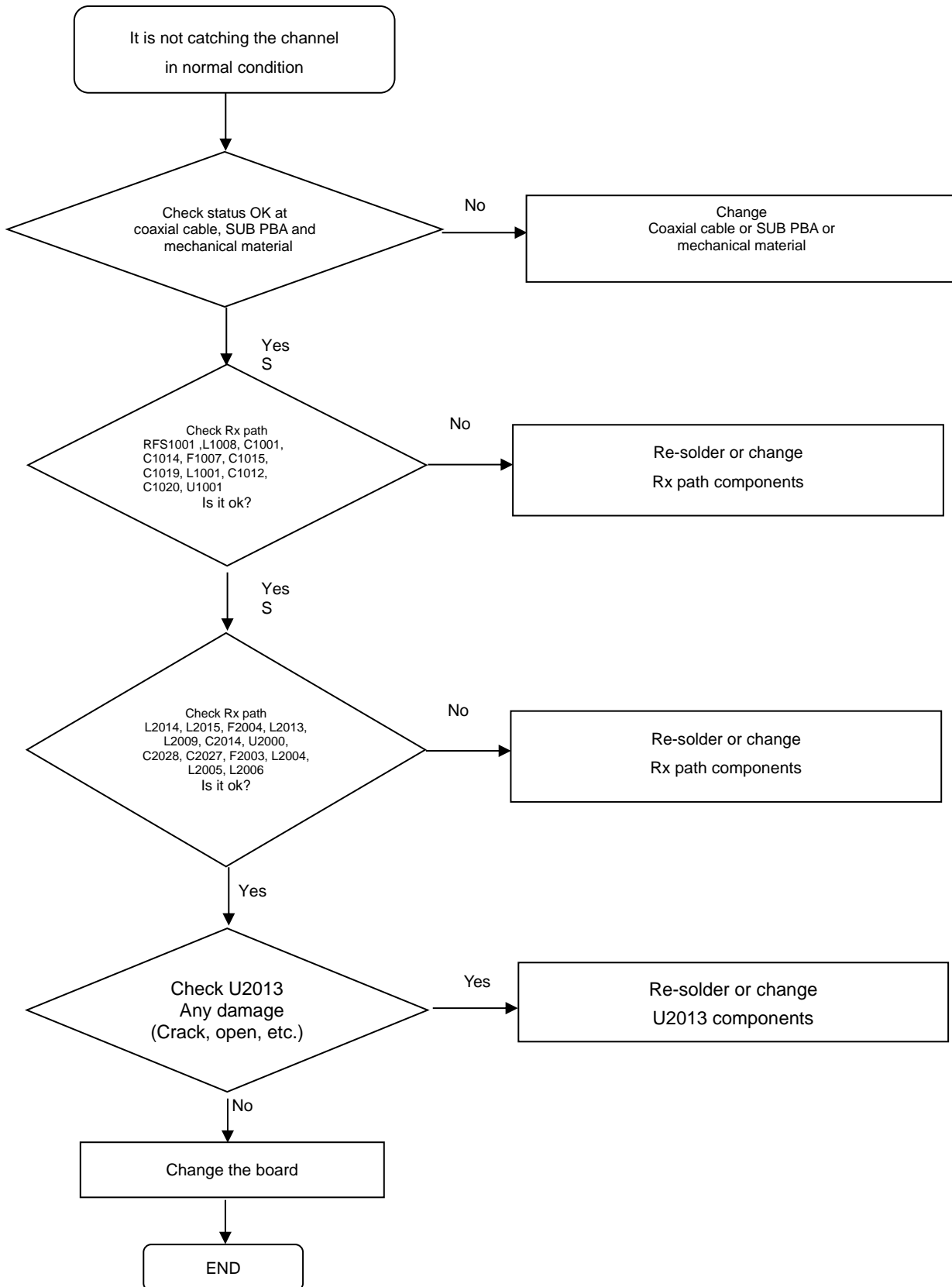
8. Level 3 Repair

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



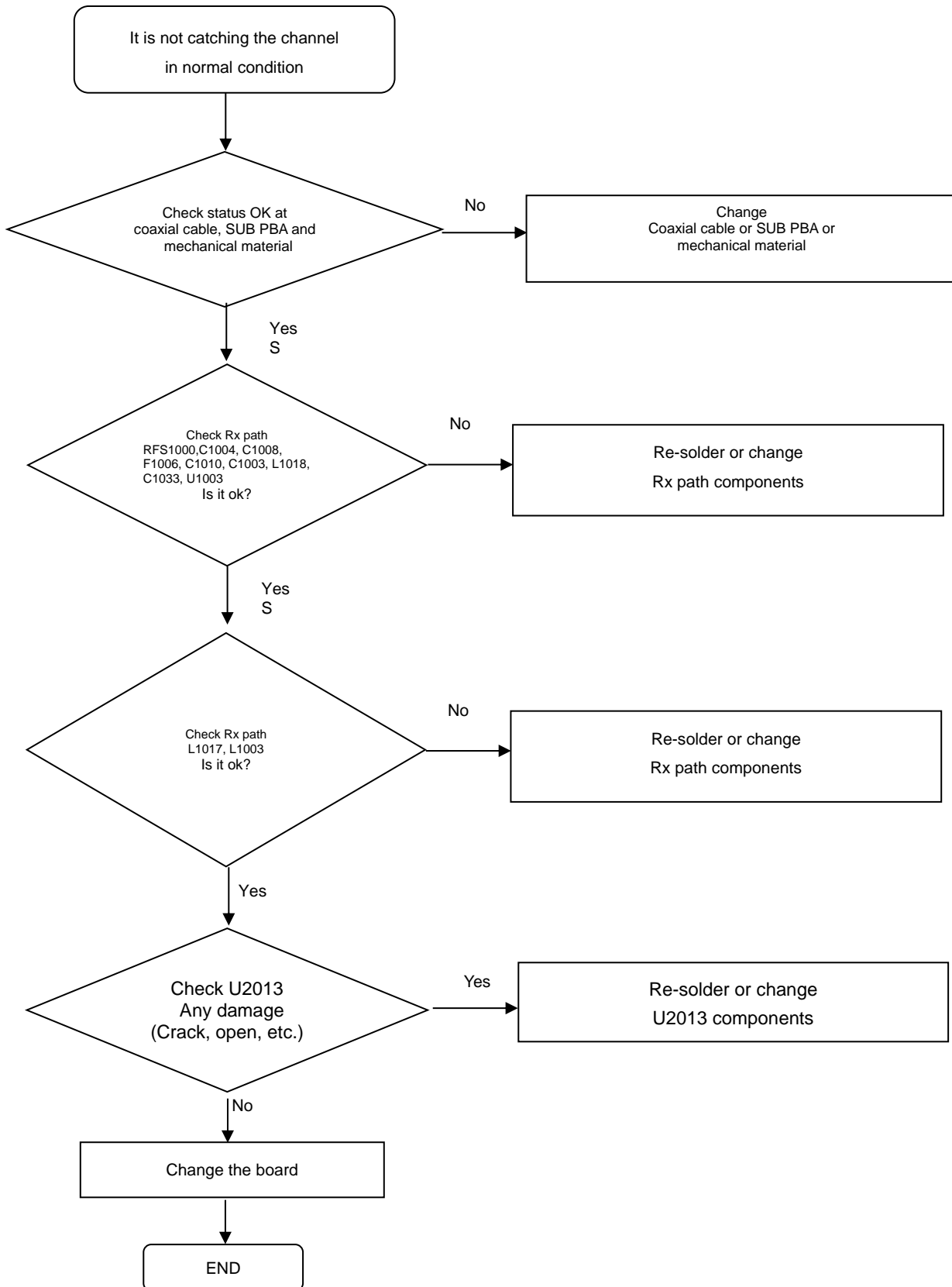
8. Level 3 Repair

8-4-25. LTE B7 RX [SM-M105G/M/Y]



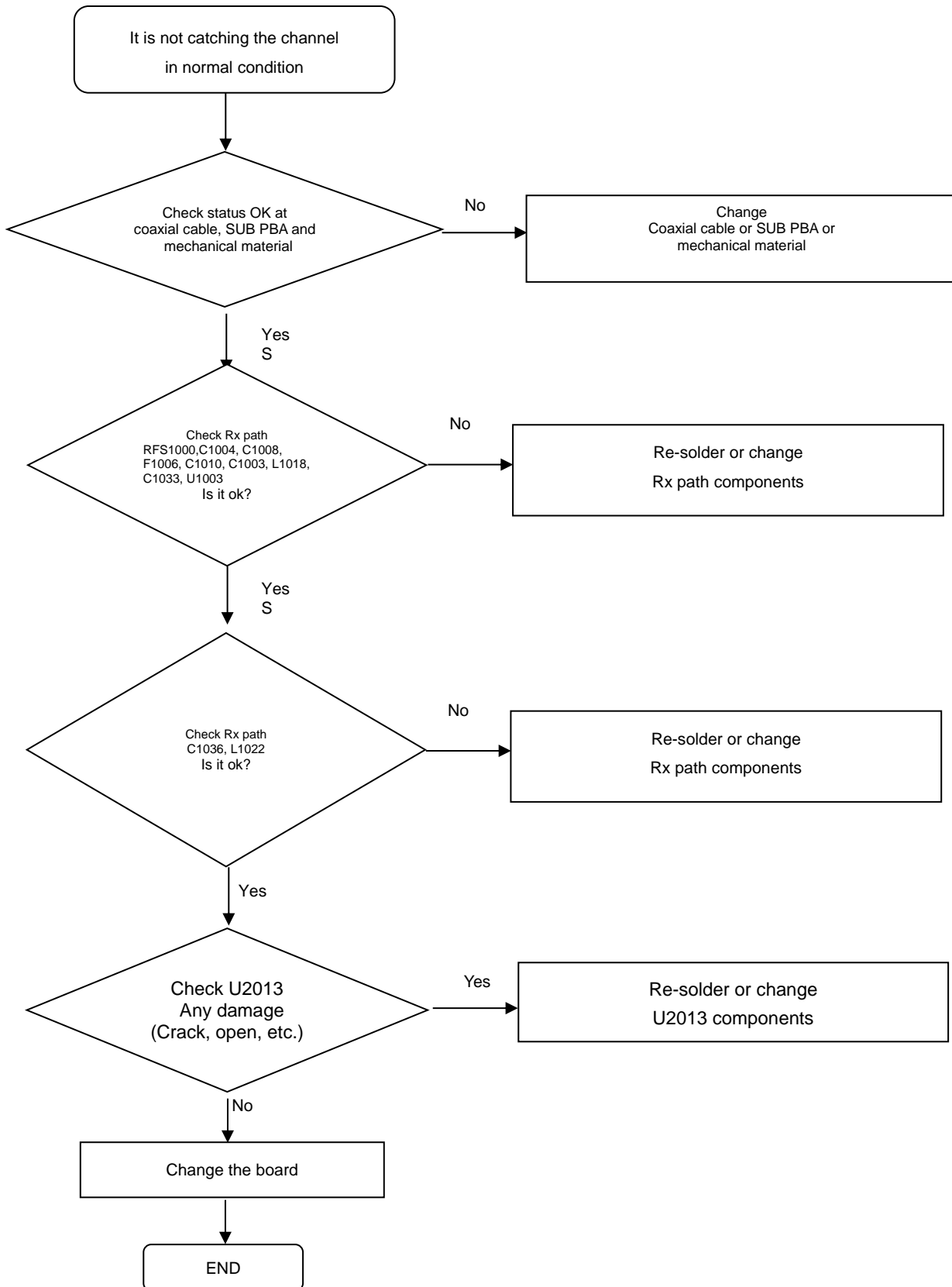
8. Level 3 Repair

8-4-26. LTE B8, WCDMA B8, GSM900 RX



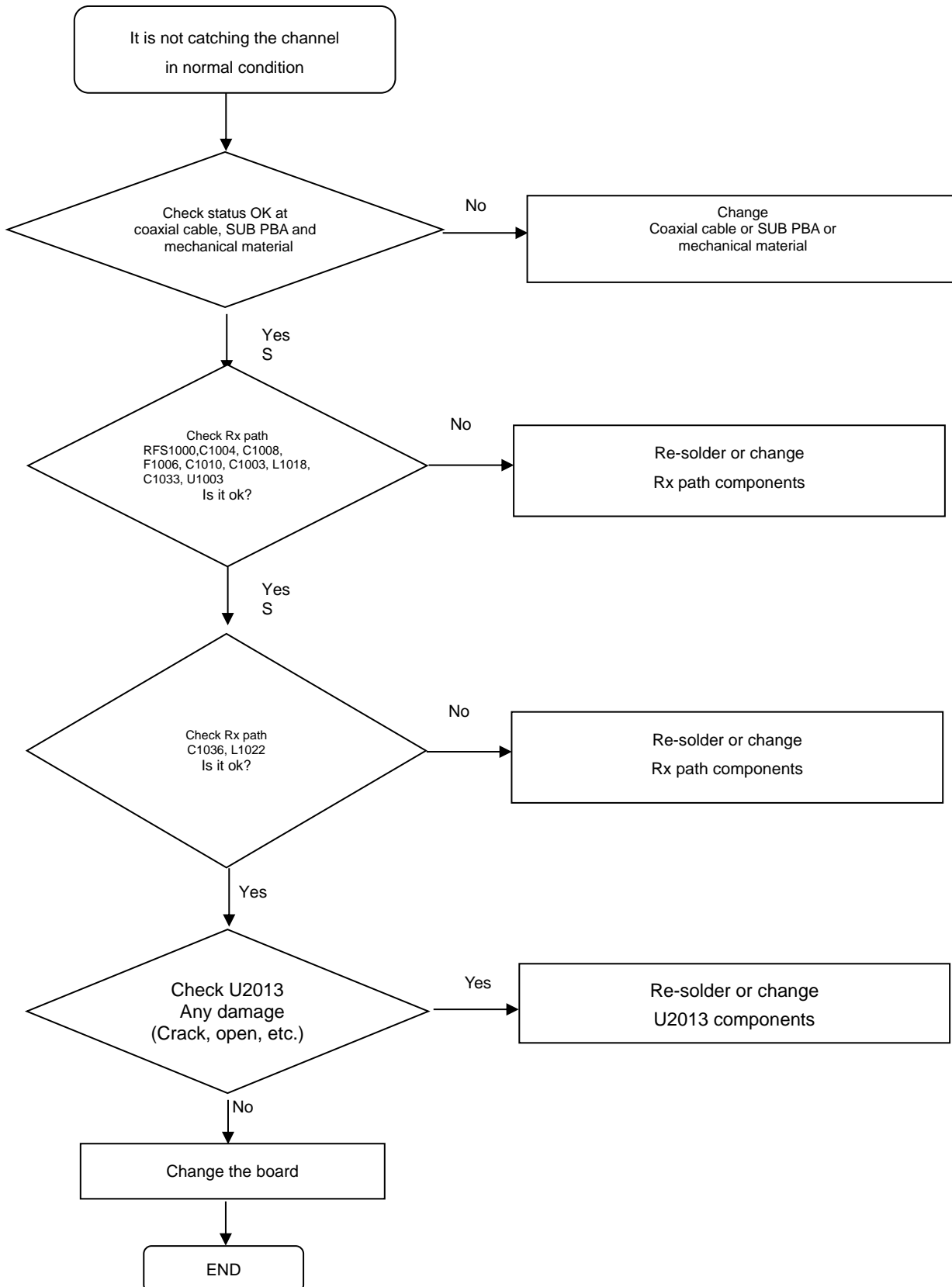
8. Level 3 Repair

8-4-27. LTE B12, B17 RX [SM-M105M]



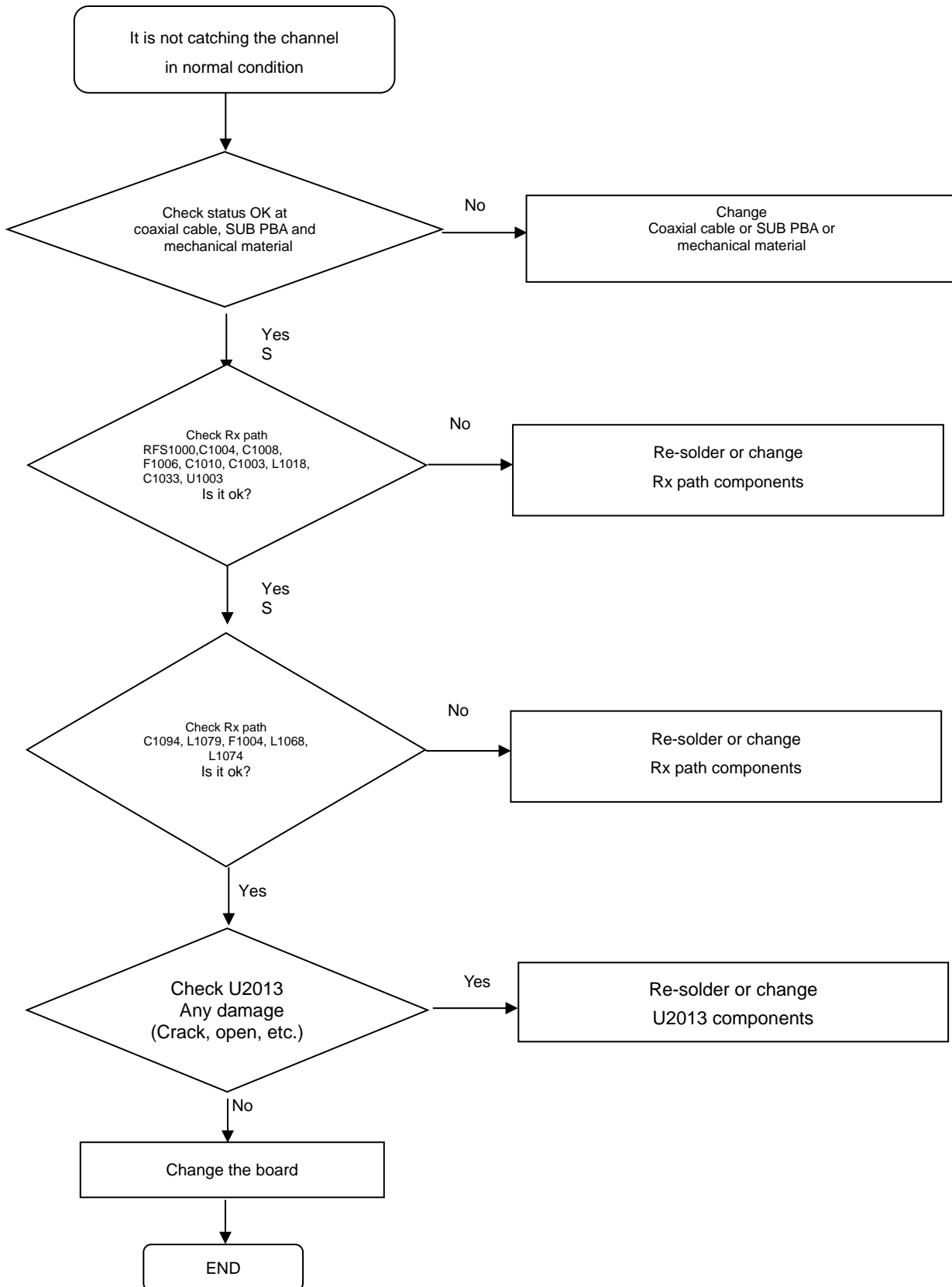
8. Level 3 Repair

8-4-28. LTE B20 RX



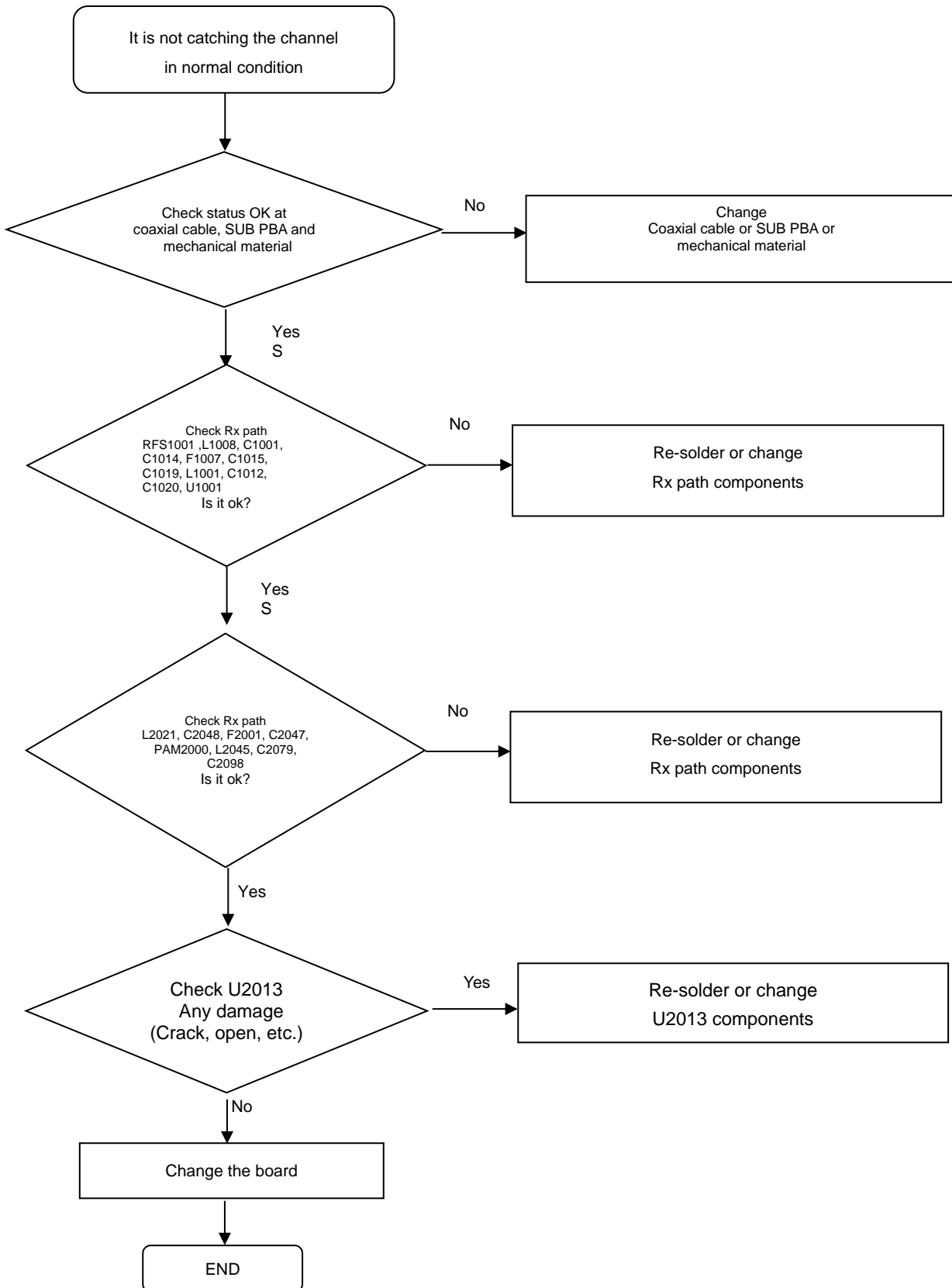
8. Level 3 Repair

8-4-28. LTE B28 RX [SM-M105M/Y]



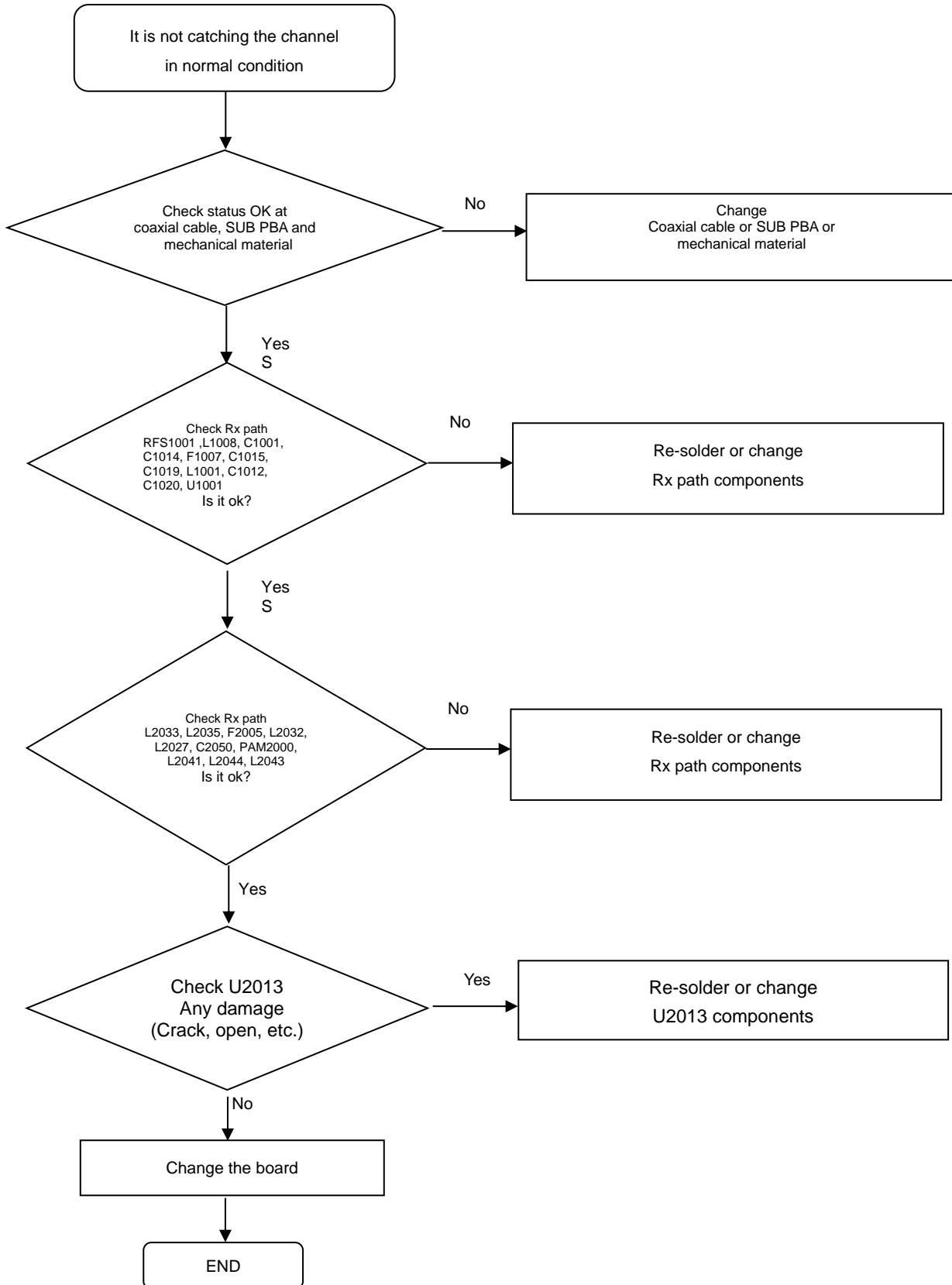
8. Level 3 Repair

8-4-29. LTE B38, B41 RX



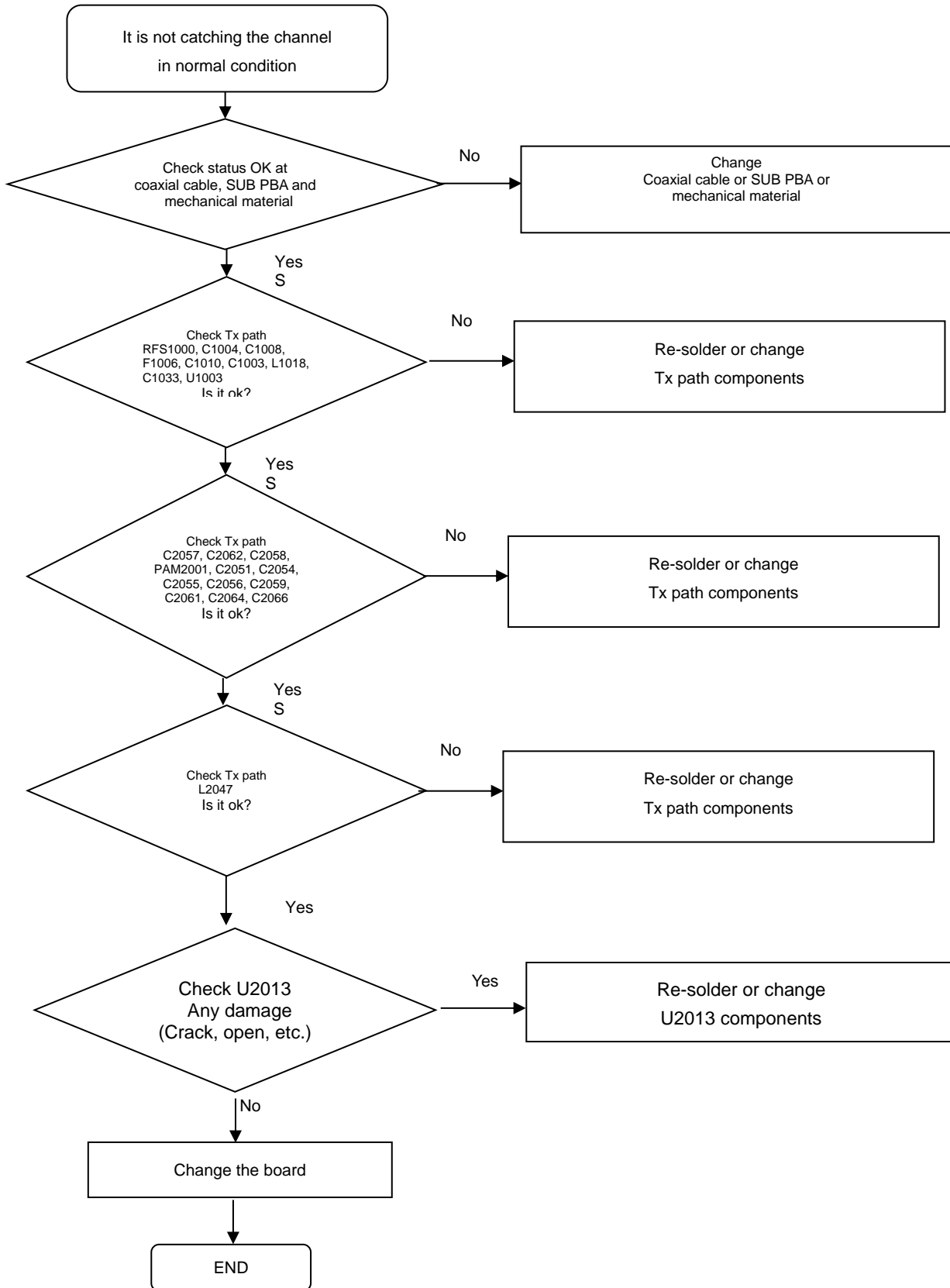
8. Level 3 Repair

8-4-30. LTE B40 RX



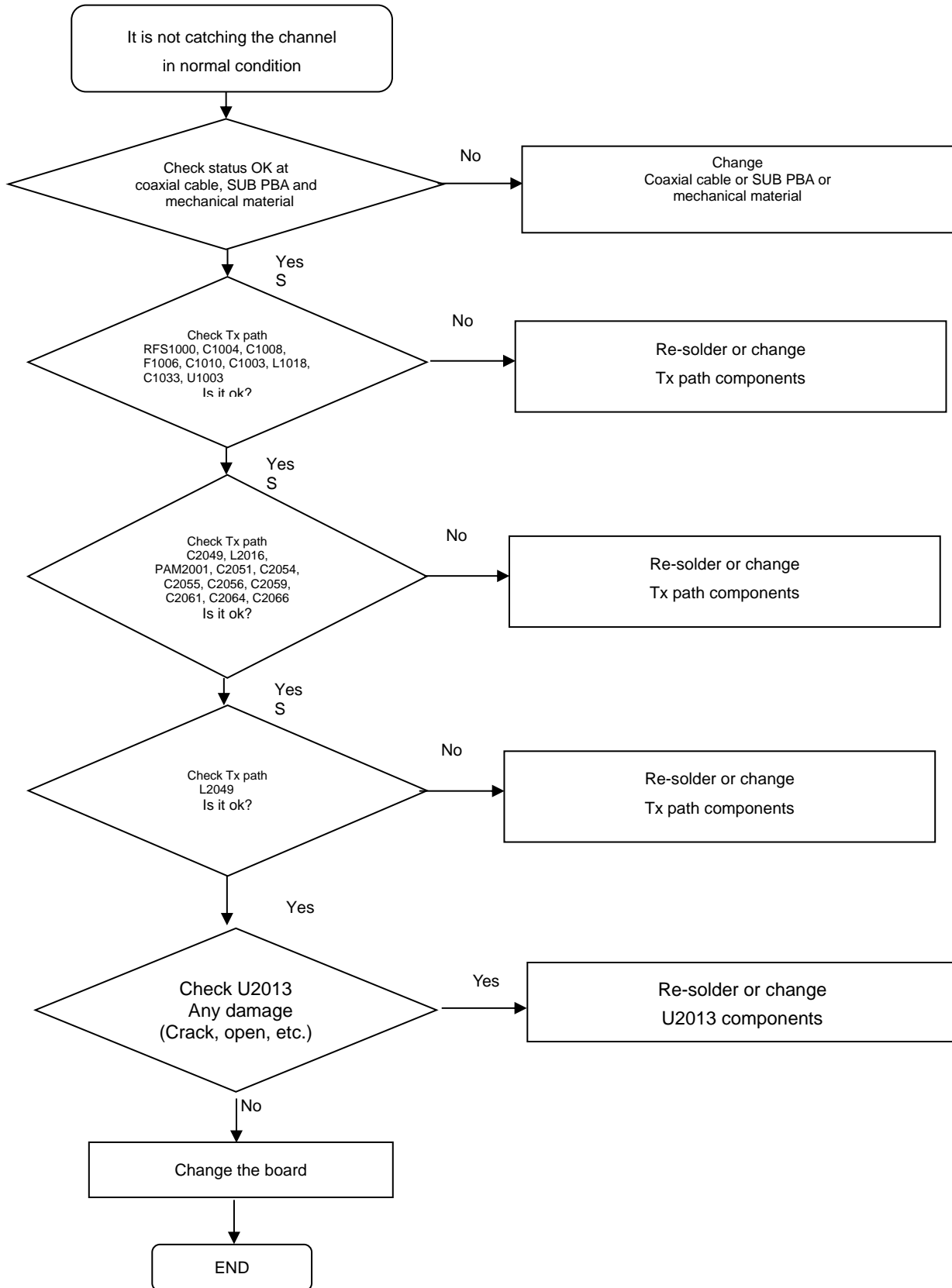
8. Level 3 Repair

8-4-31. GSM1800 / GSM1900[SM-M105M] TX



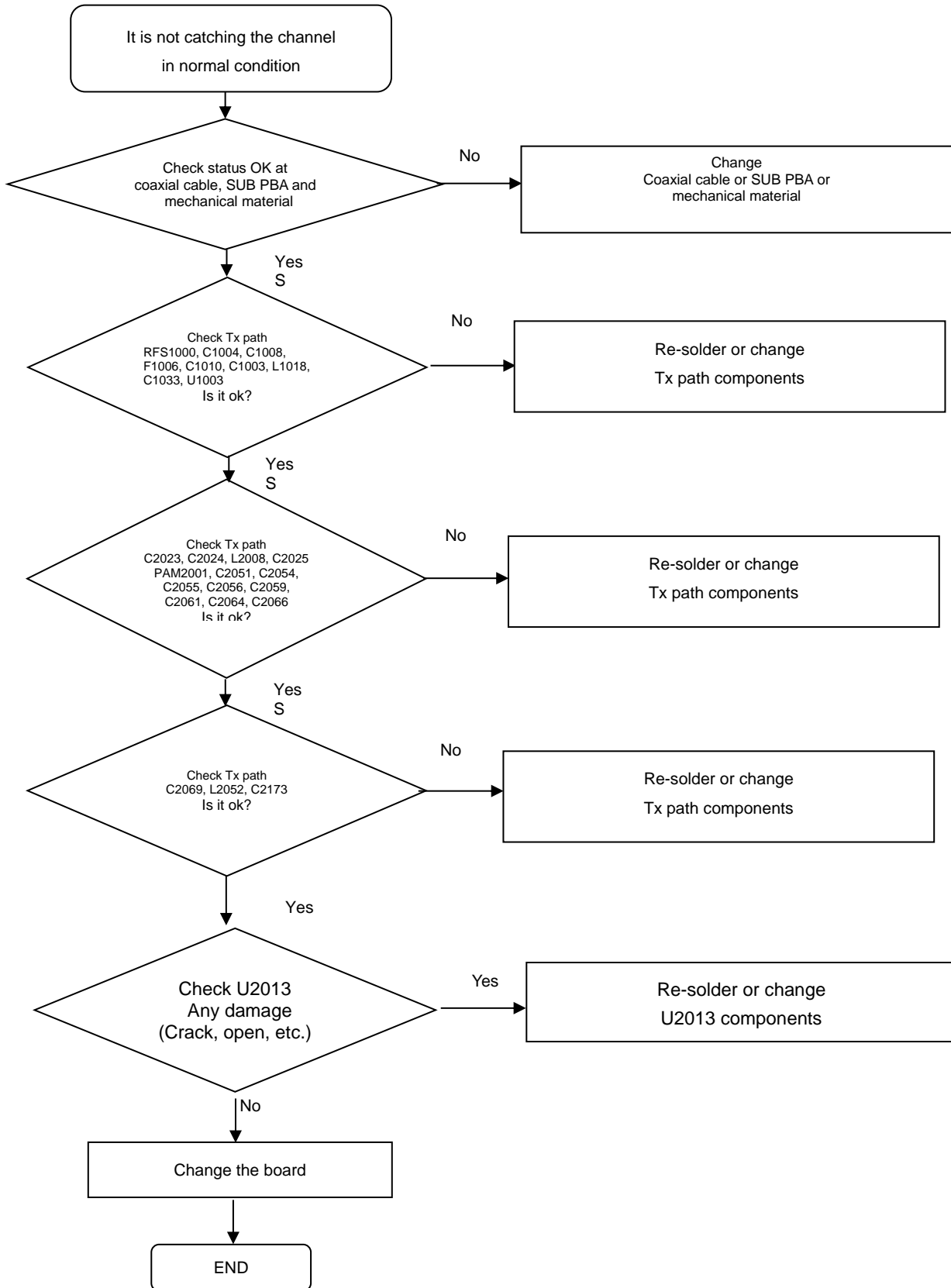
8. Level 3 Repair

8-4-32. GSM850, GSM900 TX



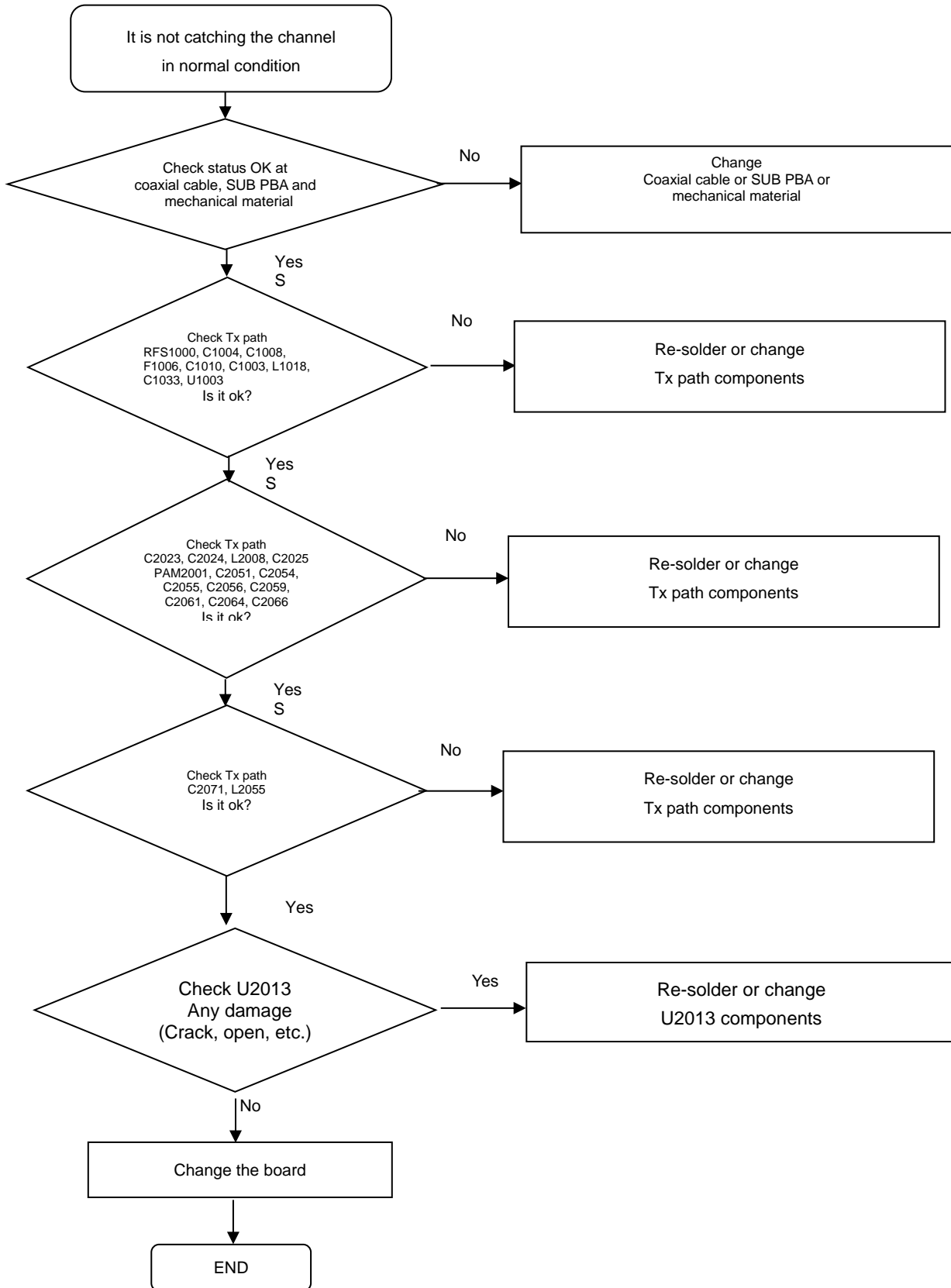
8. Level 3 Repair

8-4-33. LTE B1, WCDMA B1 TX



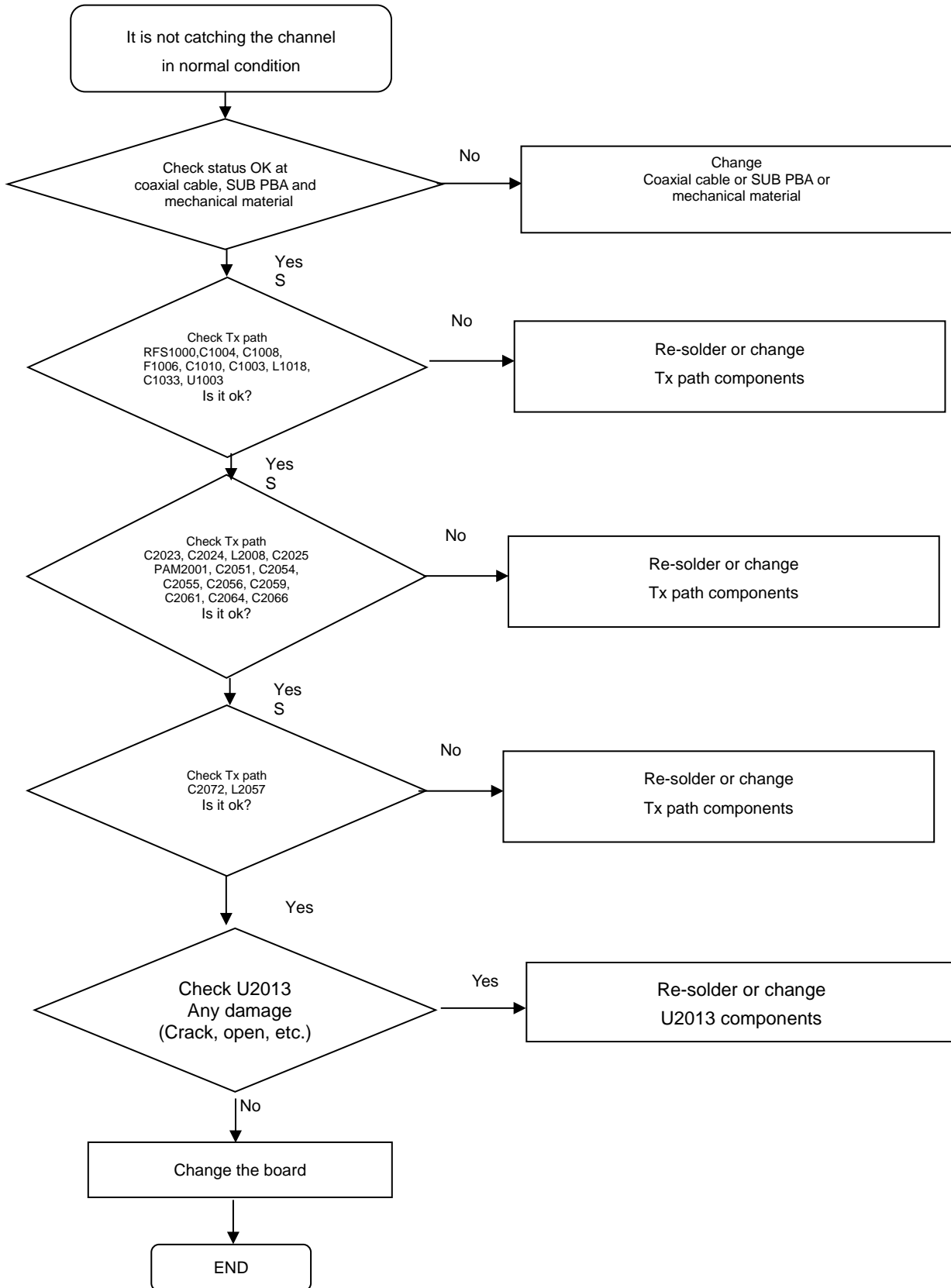
8. Level 3 Repair

8-4-34. LTE B2 / WCDMA B2 TX [SM-M105M]



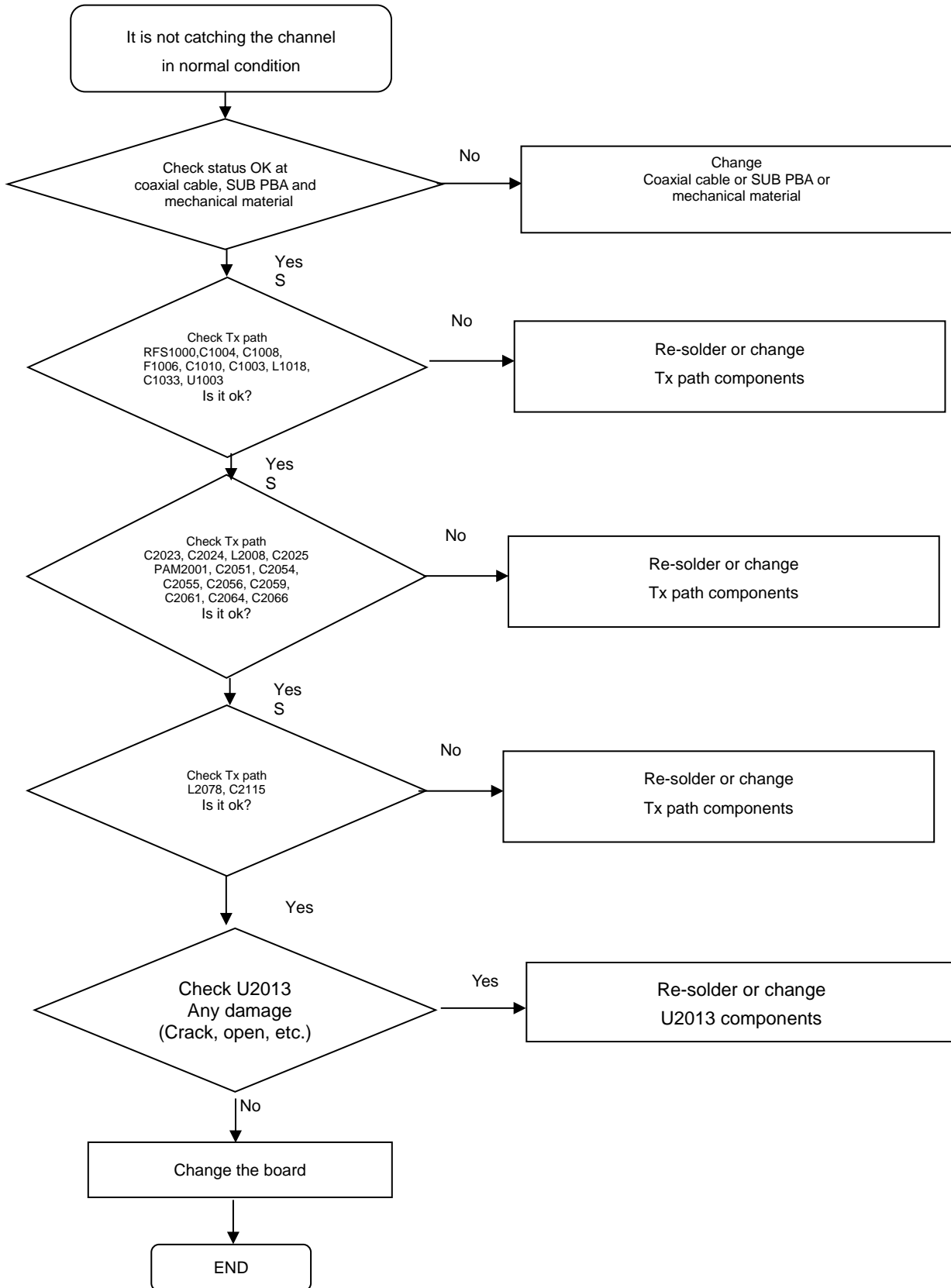
8. Level 3 Repair

8-4-35. LTE B3 TX



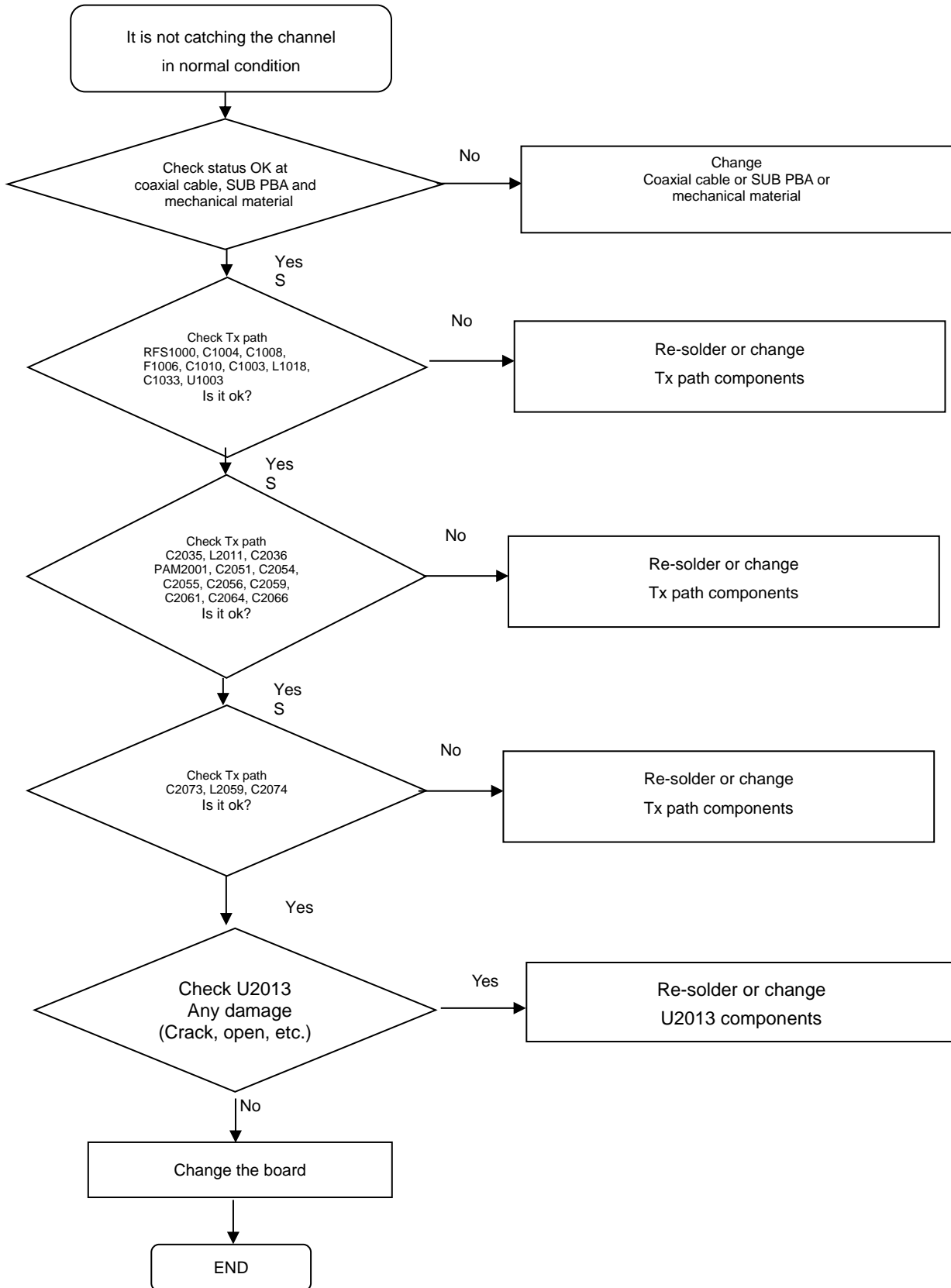
8. Level 3 Repair

8-4-36. LTE B4 / WCDMA B4 TX [SM-M105M]



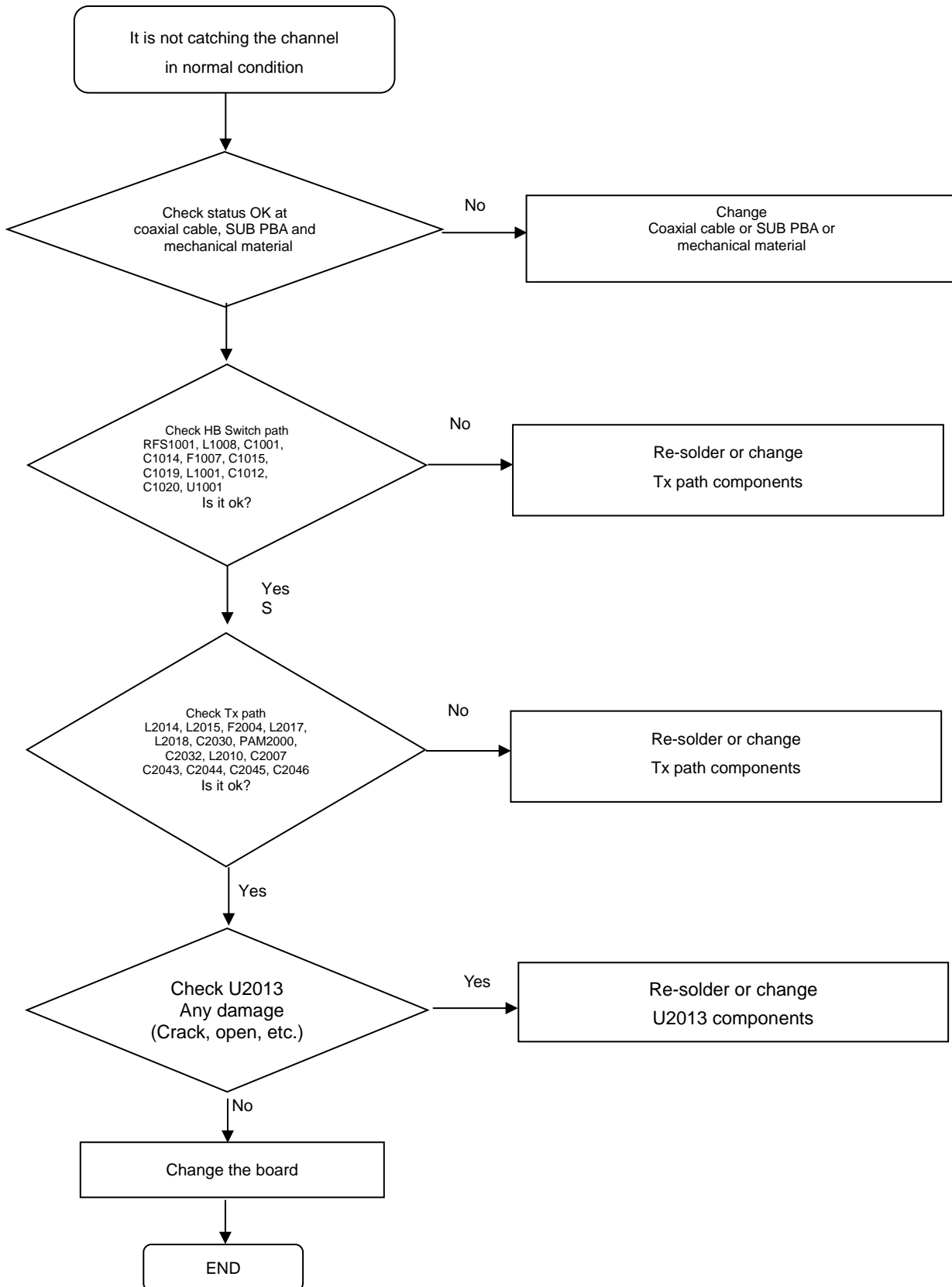
8. Level 3 Repair

8-4-37. LTE B5, WCDMA B5 TX



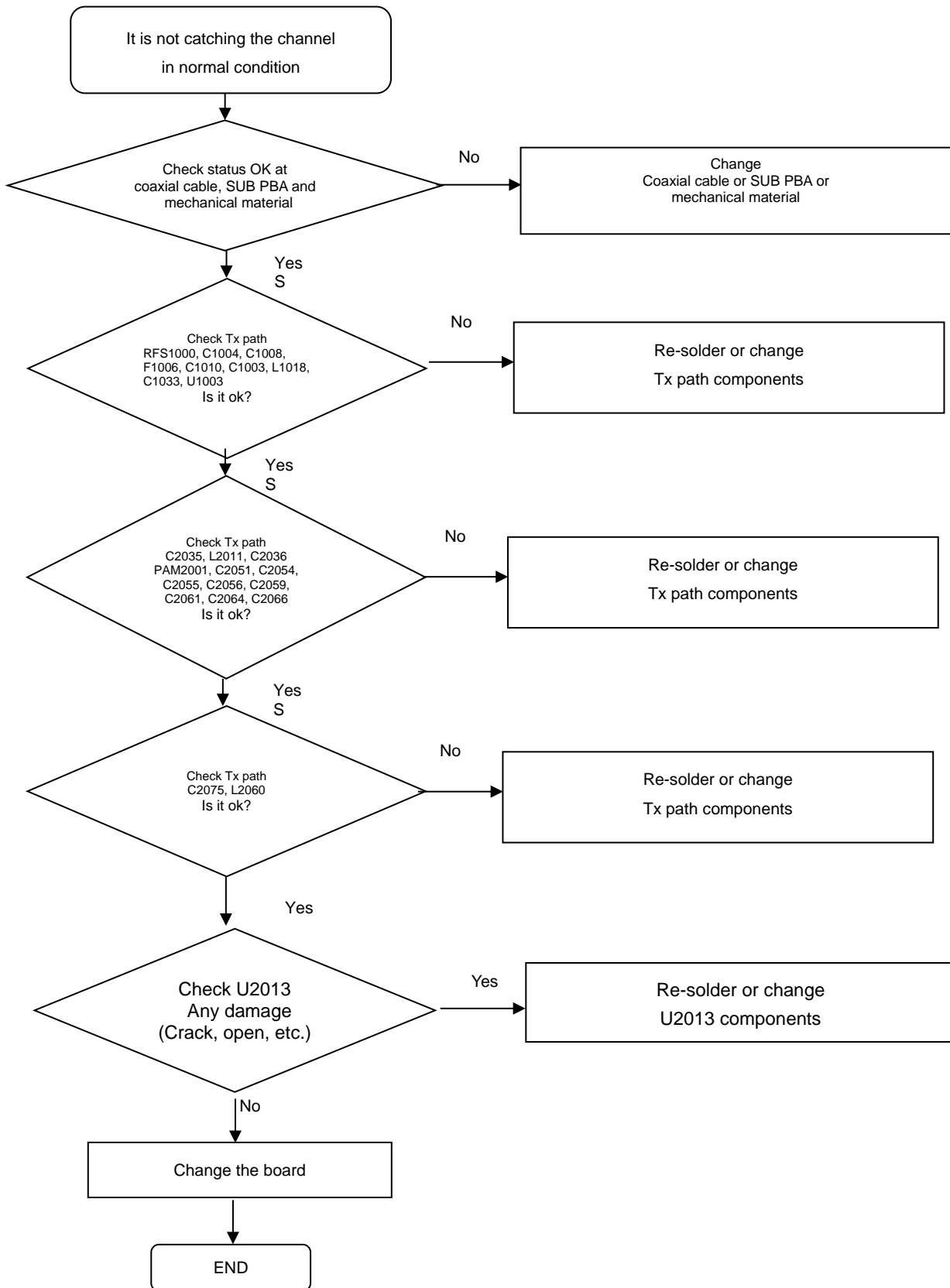
8. Level 3 Repair

8-4-38. LTE B7 TX [SM-M105G/M/Y]



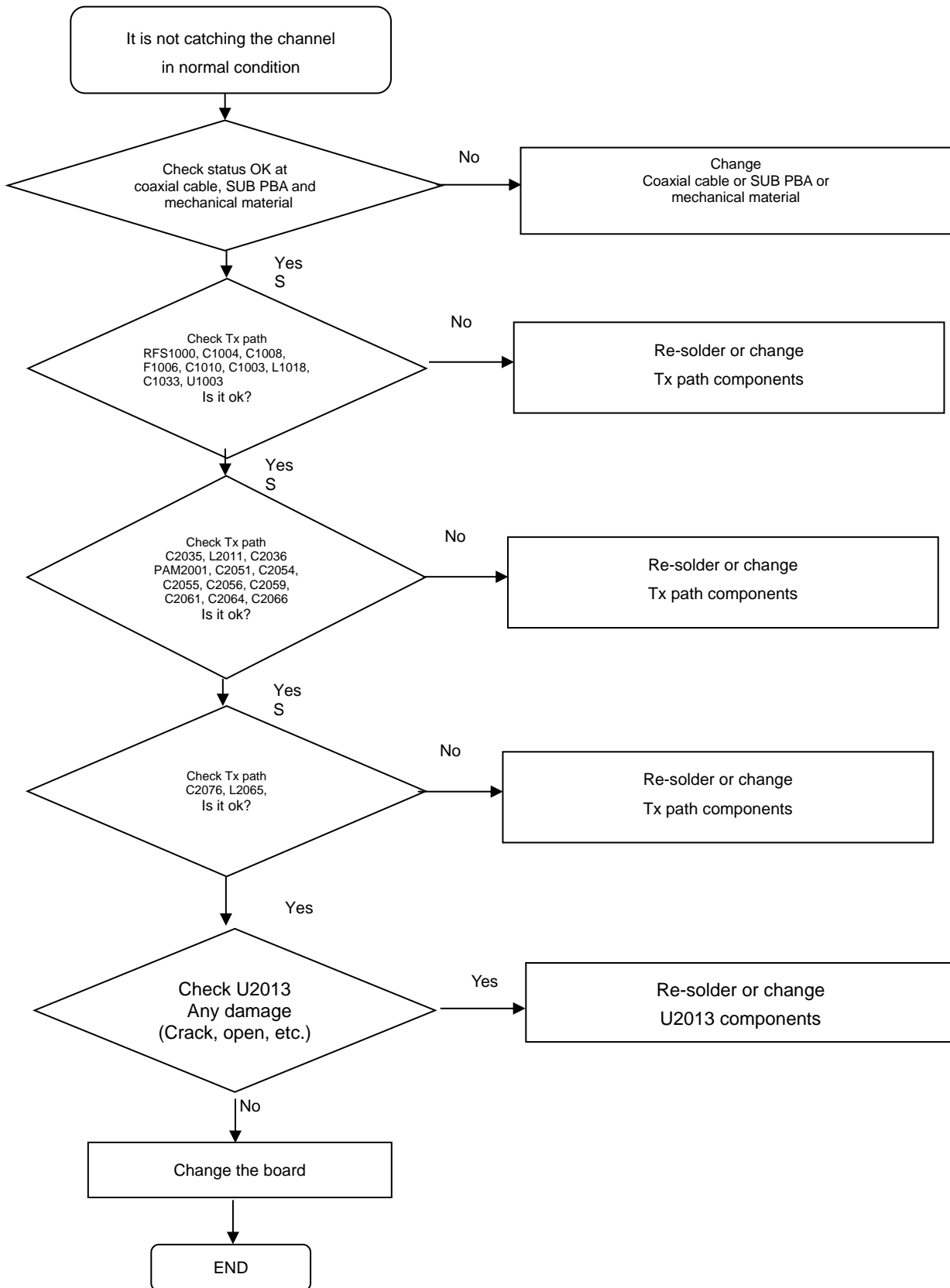
8. Level 3 Repair

8-4-39. LTE B8, WCDMA B8 TX



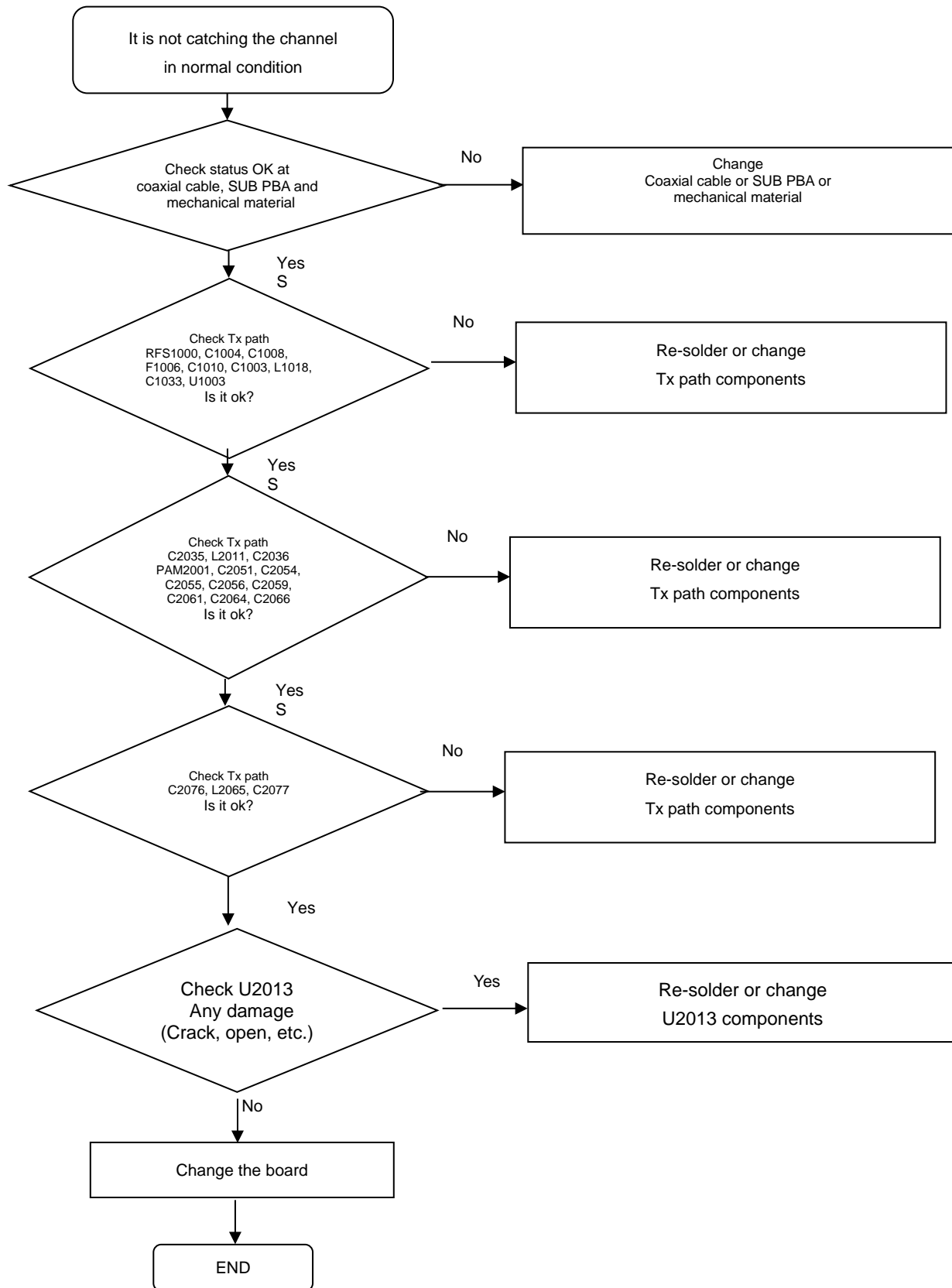
8. Level 3 Repair

8-4-40. LTE B12, B17 TX [SM-M105M]



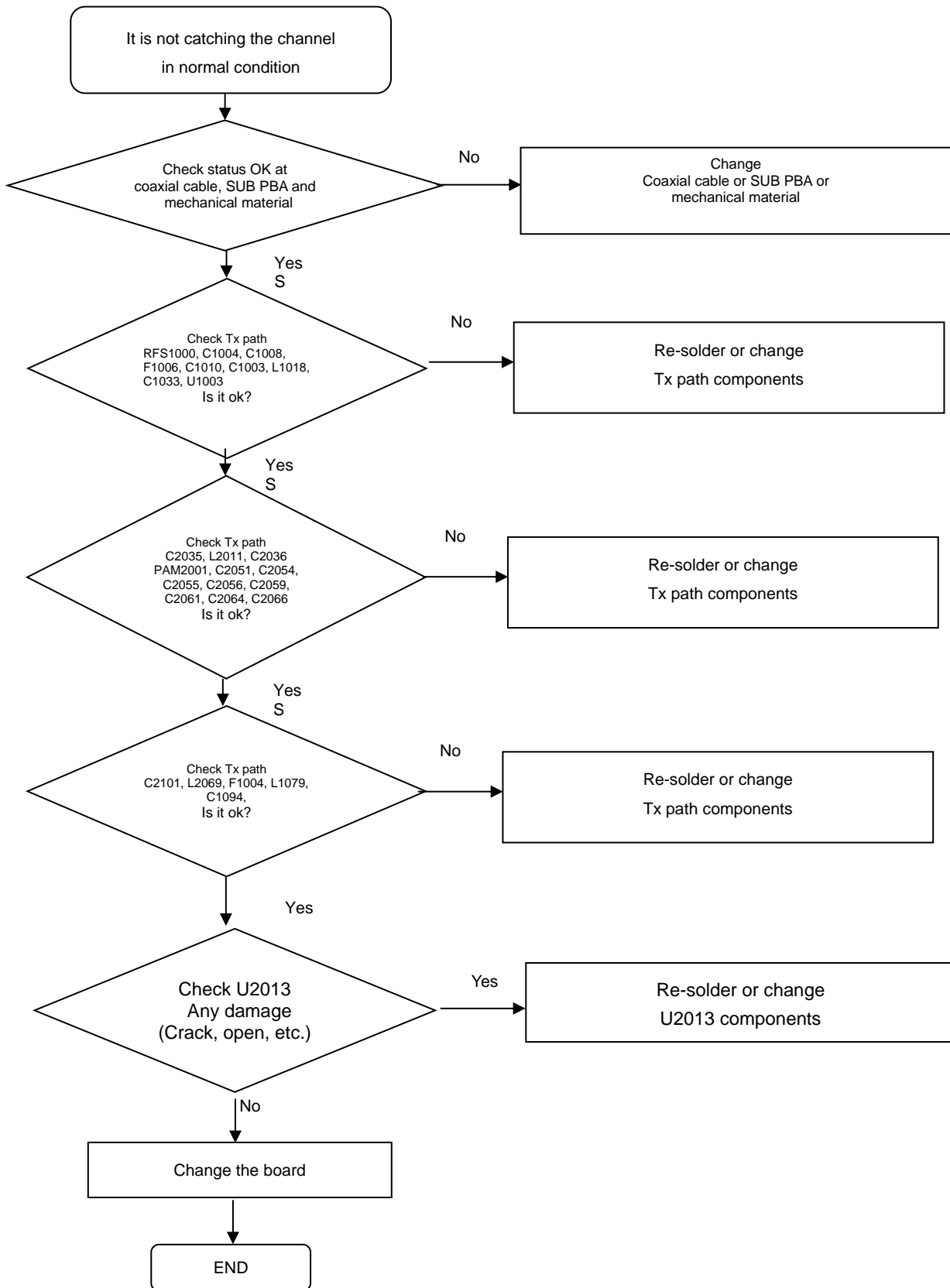
8. Level 3 Repair

8-4-41. LTE B20 TX



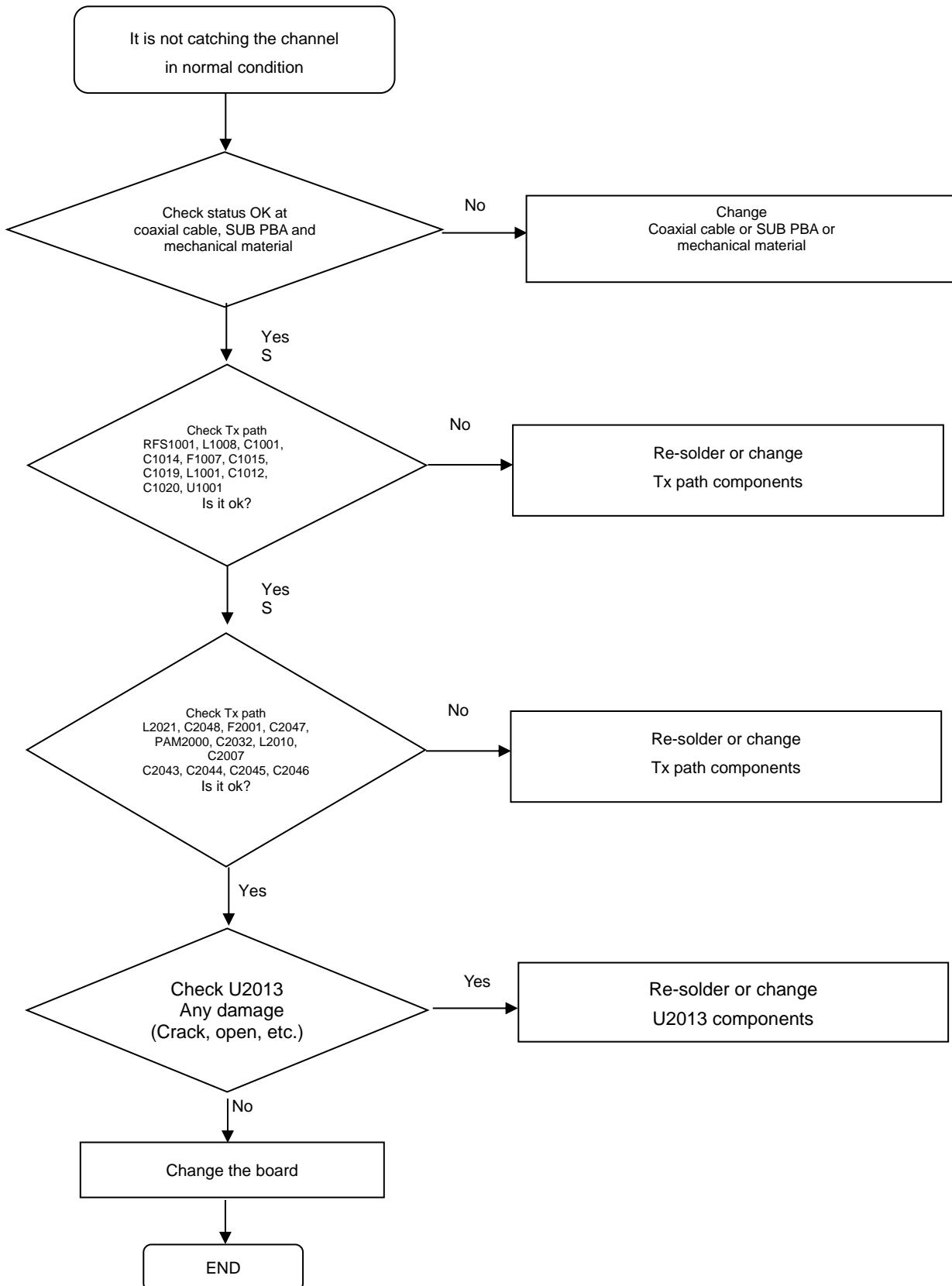
8. Level 3 Repair

8-4-42. LTE B28 TX [SM-M105M/Y]



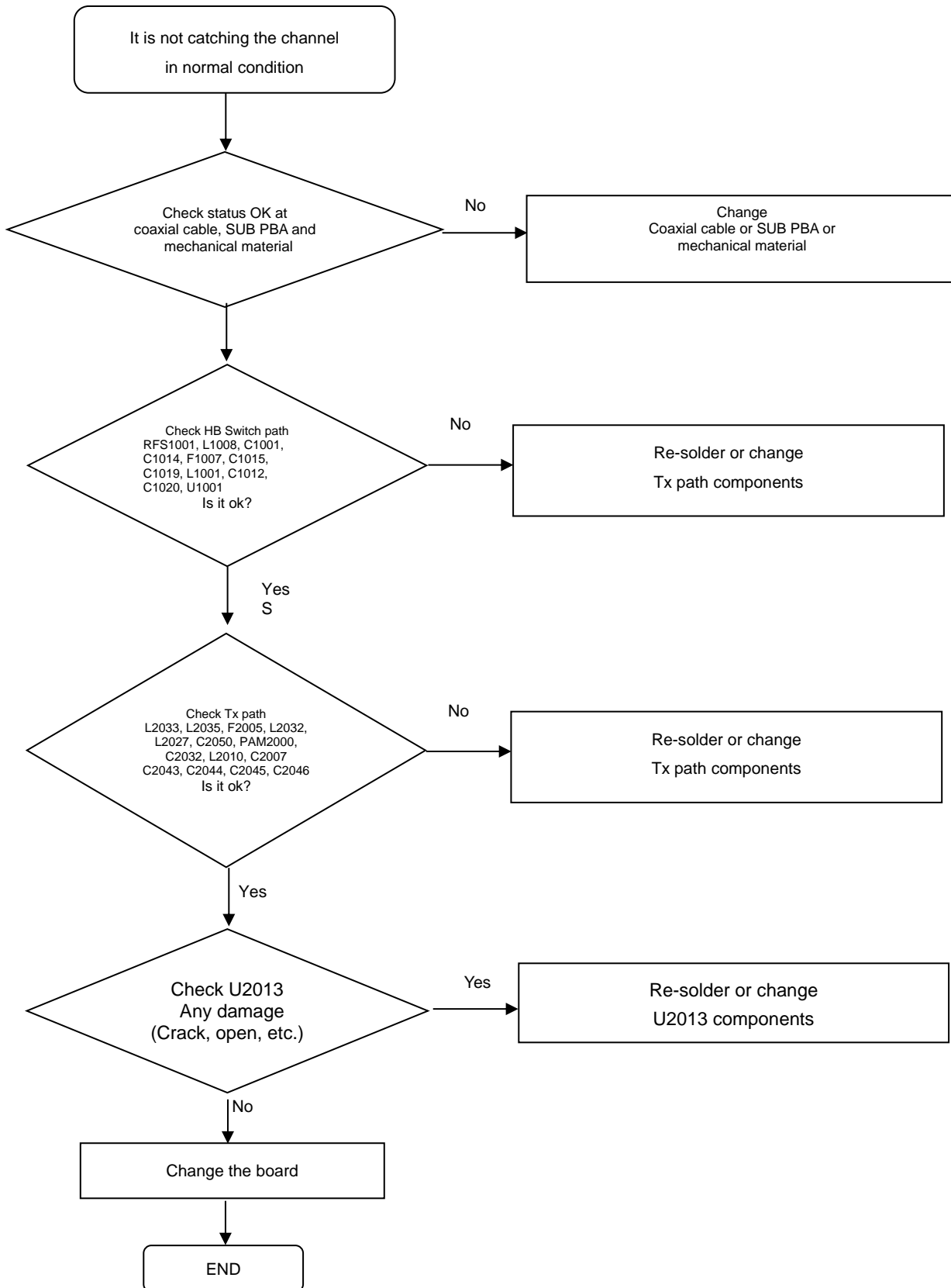
8. Level 3 Repair

8-4-43. LTE B38/B41 TX



8. Level 3 Repair

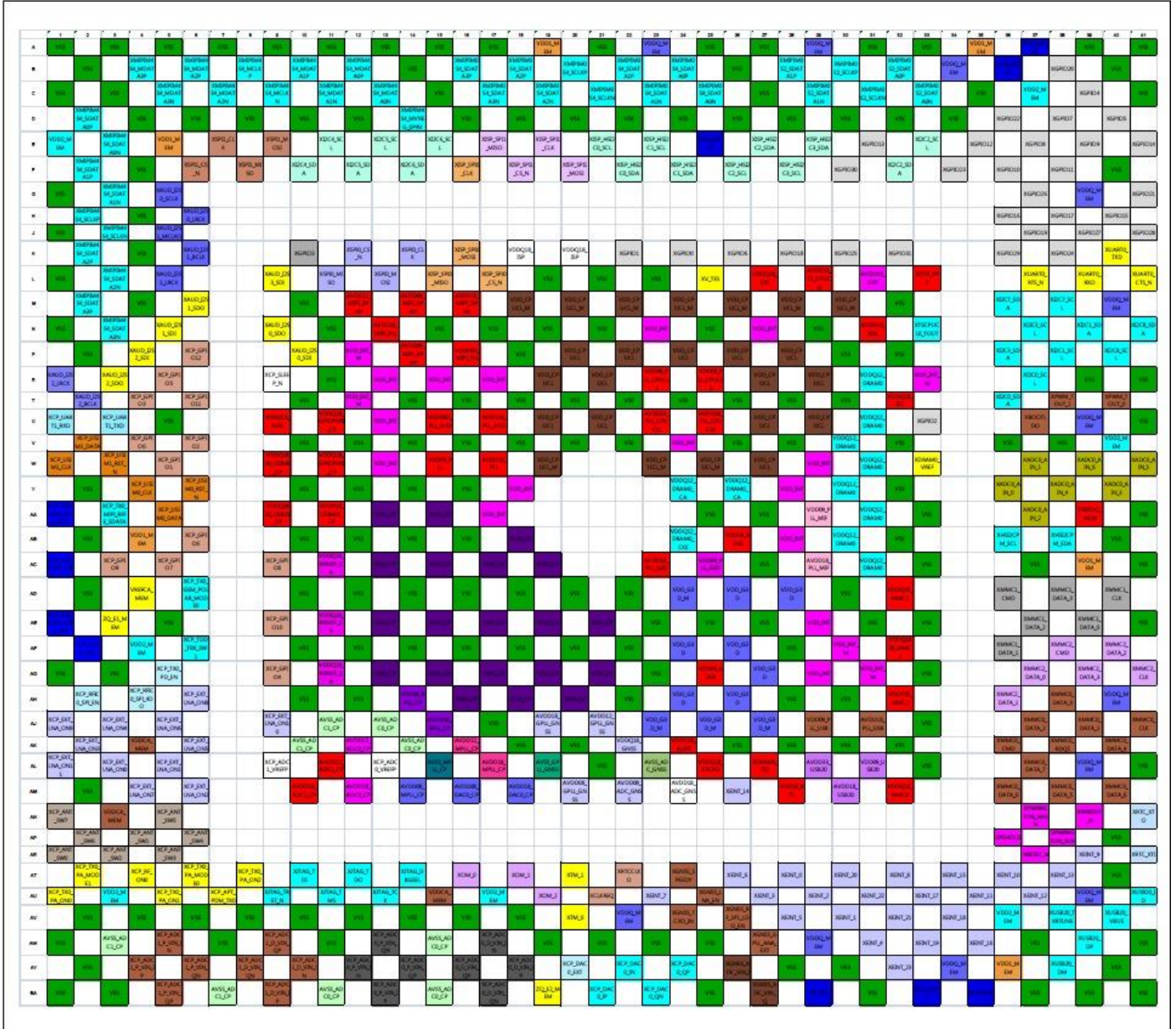
8-4-44. LTE B40 TX



8. Level 3 Repair

8-5. Service Schematics

- NC Point(Top View)



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