سرویس منوآل ،کالبدشکافی و شماتیک

گوشی سامسونگ A20

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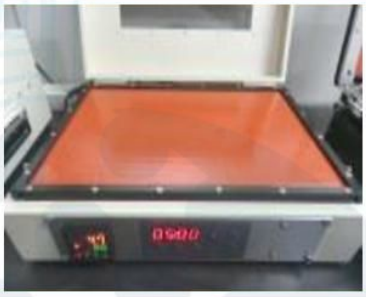
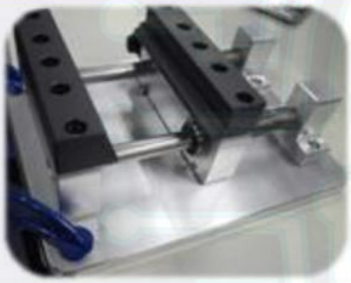
Tweezers / Disass'y Stick / Screw Driver	Anti-static Gloves
	
Anti-static Mat	Hot Plate
	
A OCTA Disassembly Holder	OCTA Disassembly Upper
Ethyl Alcohol	Cotton Swab

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7-3. Parts which must be changed after repair

BOM Description & part code	Image	Remarks
A/S-TAPE BACK COVER OUTER [GH81-16718A]		Whenever re-assemble Backglass. Remove old tape and use new tape
Fingerprint Tape [GH81-16815A]		Whenever re-assemble Fingerprint. Remove old tape and use new tape

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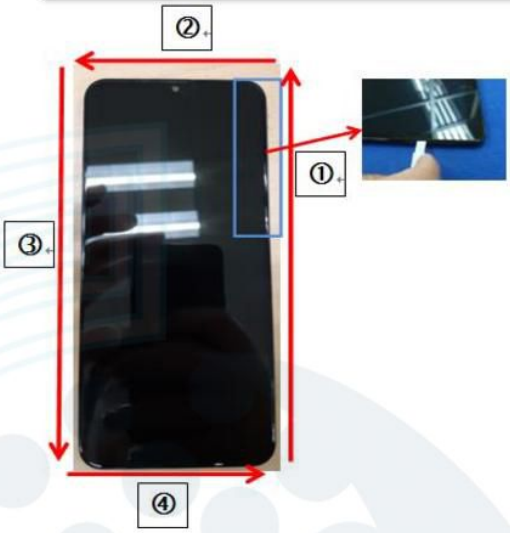
7-4. Disassembly

1 Remove SIM/SD Tray. Detach Back cover using tool. 	2 Remove Rear Cover SIM/SD area → Upper → Right → Below 
※ Caution Be care of scratch	※ Caution Be care of scratch
3 Remove Finger print FPCB using tool and detach Finger print 	4 Remove all 13 points of Rear Screws
※ Caution 1) Be care of scratch 2) Be care of Rear and Finger print damage	※ Caution Be care of Rear damage

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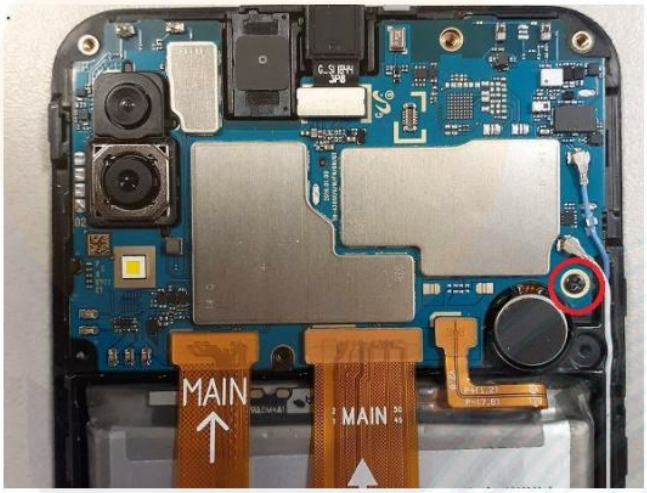
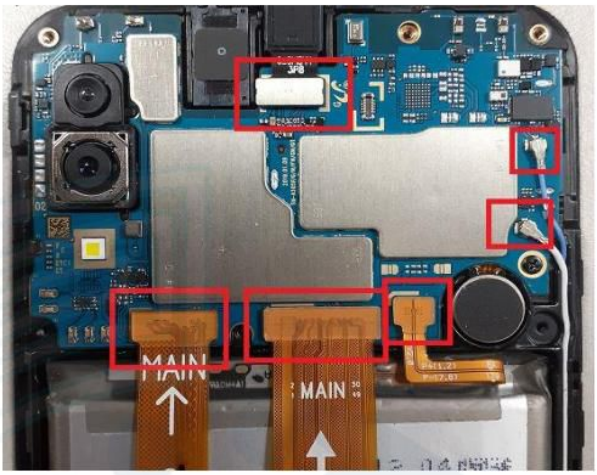
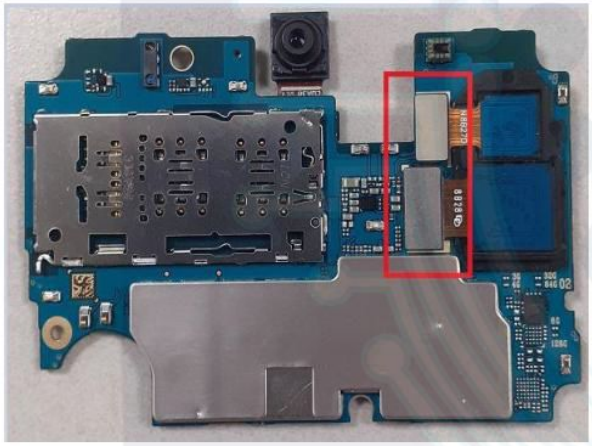
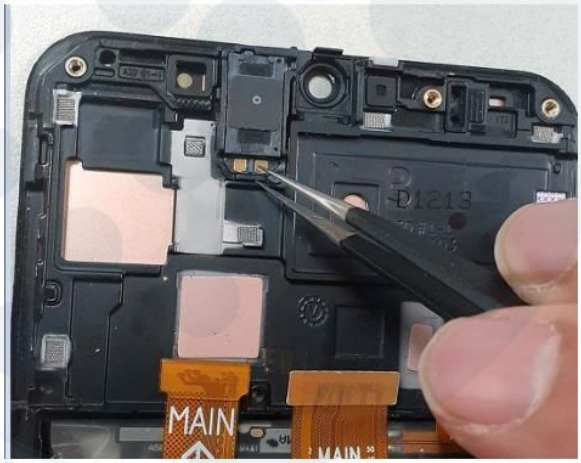
5 Remove 1 PBA screw 	**6** Remove the PBA and C to C FPCB and Batt Conn and BLACK, WHITE coaxial cable and VT Camera. 
※ Caution Be careful not to damage the PBA	※ Caution Be care of several kinds of damage at PBA and FPCB.
7 Remove CAM connectors 	**8** Detach RCV from Front Ass'y. 
※ Caution Be careful not to damage the Camera Module	※ Caution Be careful not to damage the RCV.

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9 Detach Motor from Front Ass'y. 	10 Remove C to C FPCB and BLACK, WHITE Coaxial cable.
※ Caution Be careful not to damage the Motor.	※ Caution Be careful not to damage the C to C FPCB and BLACK, WHITE coaxial cable.
11 Detach HB PBA and the Sub PBA. 	12 Detach SPK from Rear Ass'y
※ Caution Be careful not to damage HB PBA and the Sub PBA.	※ Caution Be careful not to damage the SPK.

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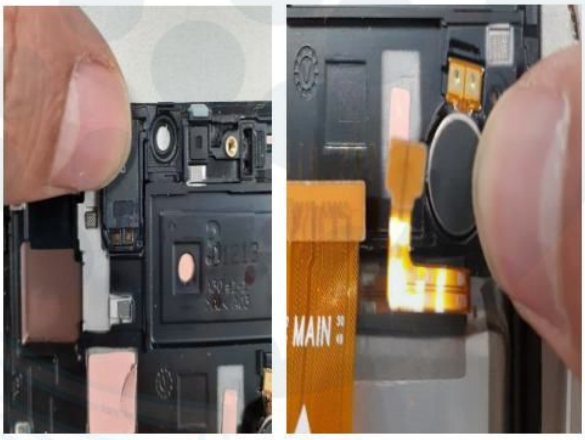
7-5. Assembly

1 Attach SPK on Rear Ass'y. 	2 Attach HB PBA and Sub PBA on Front Ass'y.
※ Caution Be care of SPK damage.	※ Caution Be care of Sub PBA damage.
3 Attach C to C FPCB and BLACK, WHITE coaxial cable. 	4 Attach Motor and Receiver in upper area 
※ Caution Please keep the guide line for C to C FPCB and BLACK, WHITE coaxial Cable.	※ Caution 1) Be care of scratch CAM lens 2) Be care of damage each part.

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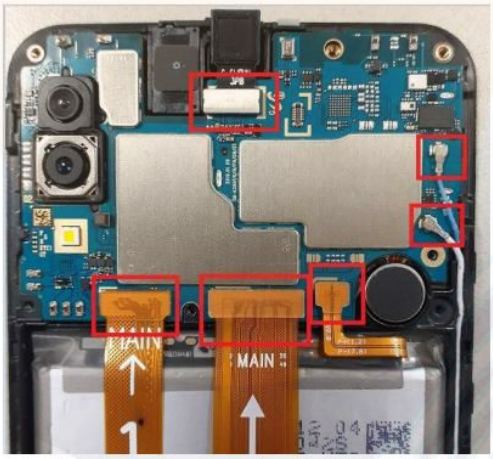
5 Assemble the PBA and C to C FPCB and Batt Conn and BLACK, WHITE coaxial cable and VT Camera.



※ Caution
Check for each connector connection

6 Screw insertion 1 Point.
* Torque Value : 1.2 ±7%

※ Caution
Be care of PBA damage.

7 Assemble Rear and screw insertion 13 point
* Torque Value : 1.2 ±7%

※ Caution
Be care of PBA damage

8 Assemble Finger print module and connect FPCB

※ Caution
Be care of Finger Print FPCB damage.

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9	Assemble cover rear and insert SIM/SD Tray

※ Caution
Be care of scratch Rear cover

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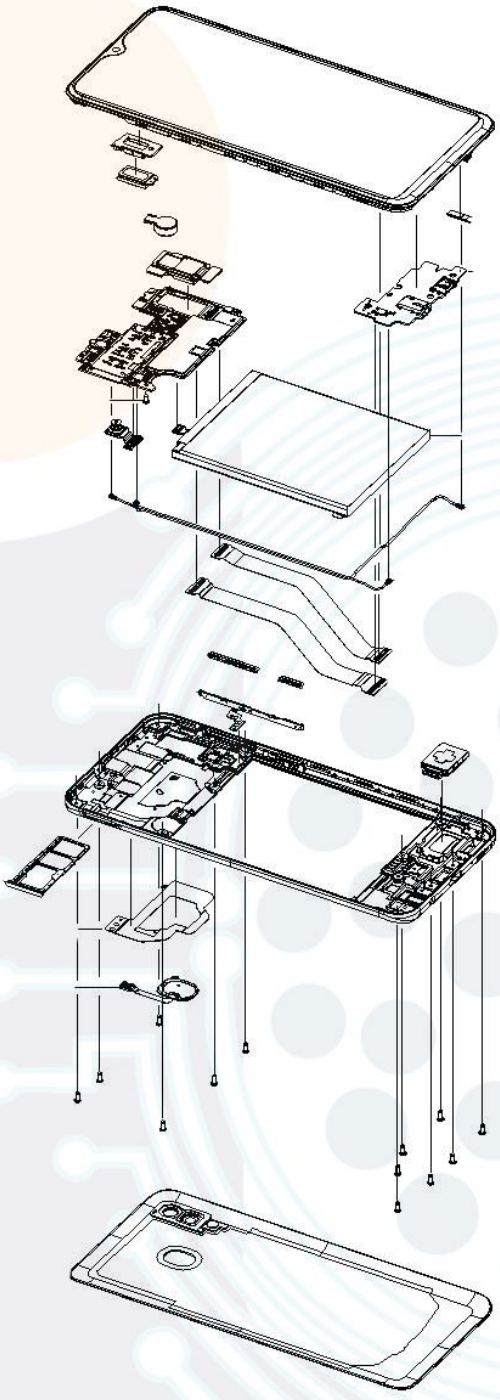

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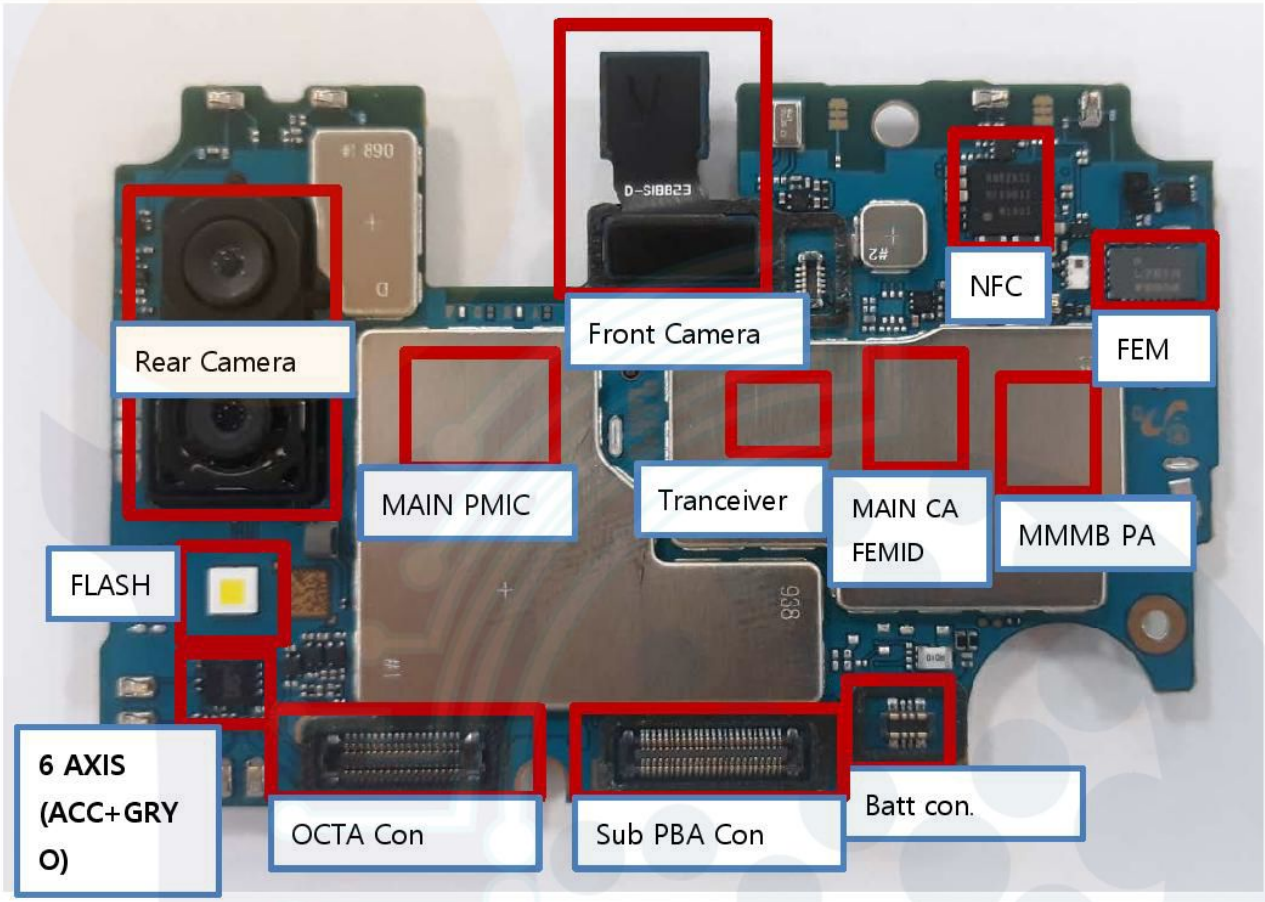
8. Level 3 Repair

8-1. Components Layout



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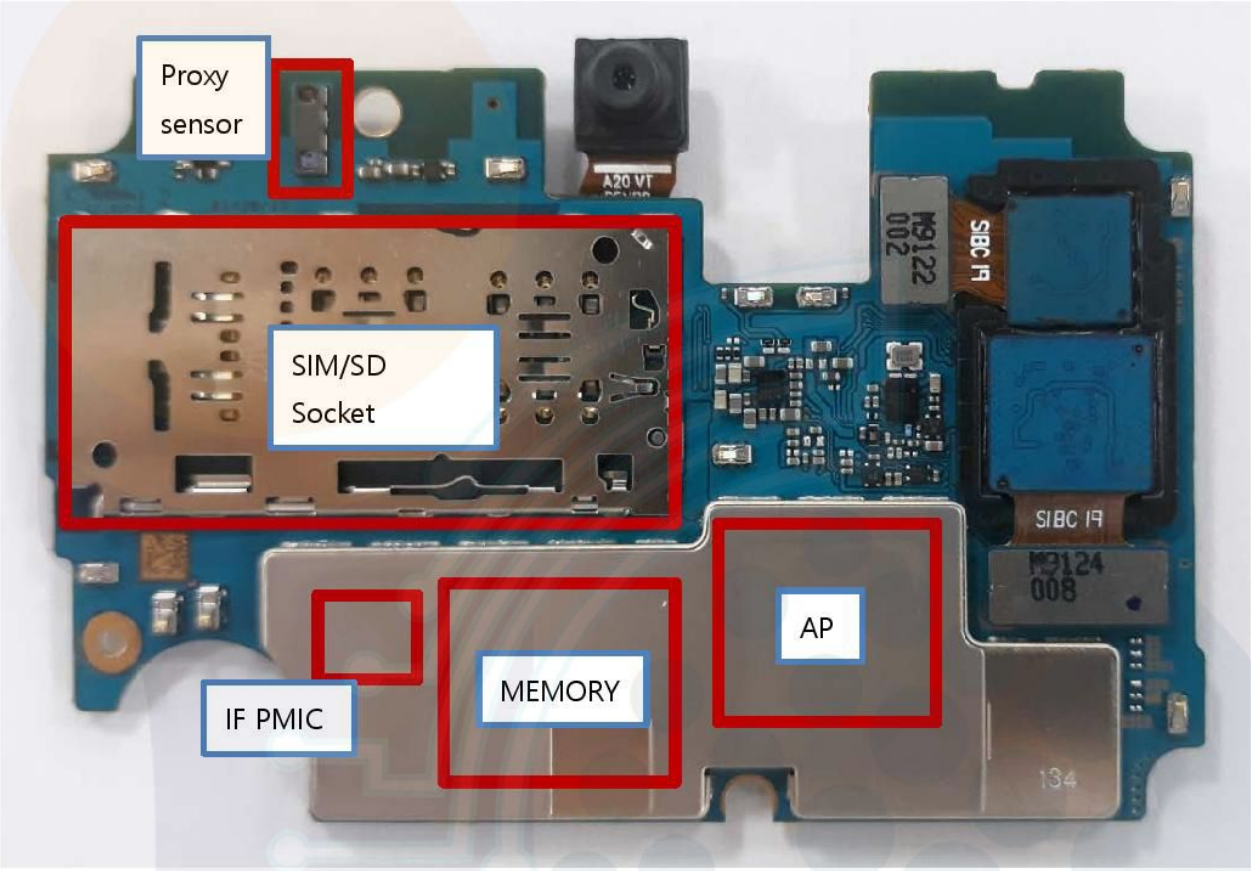
8. Level 3 Repair



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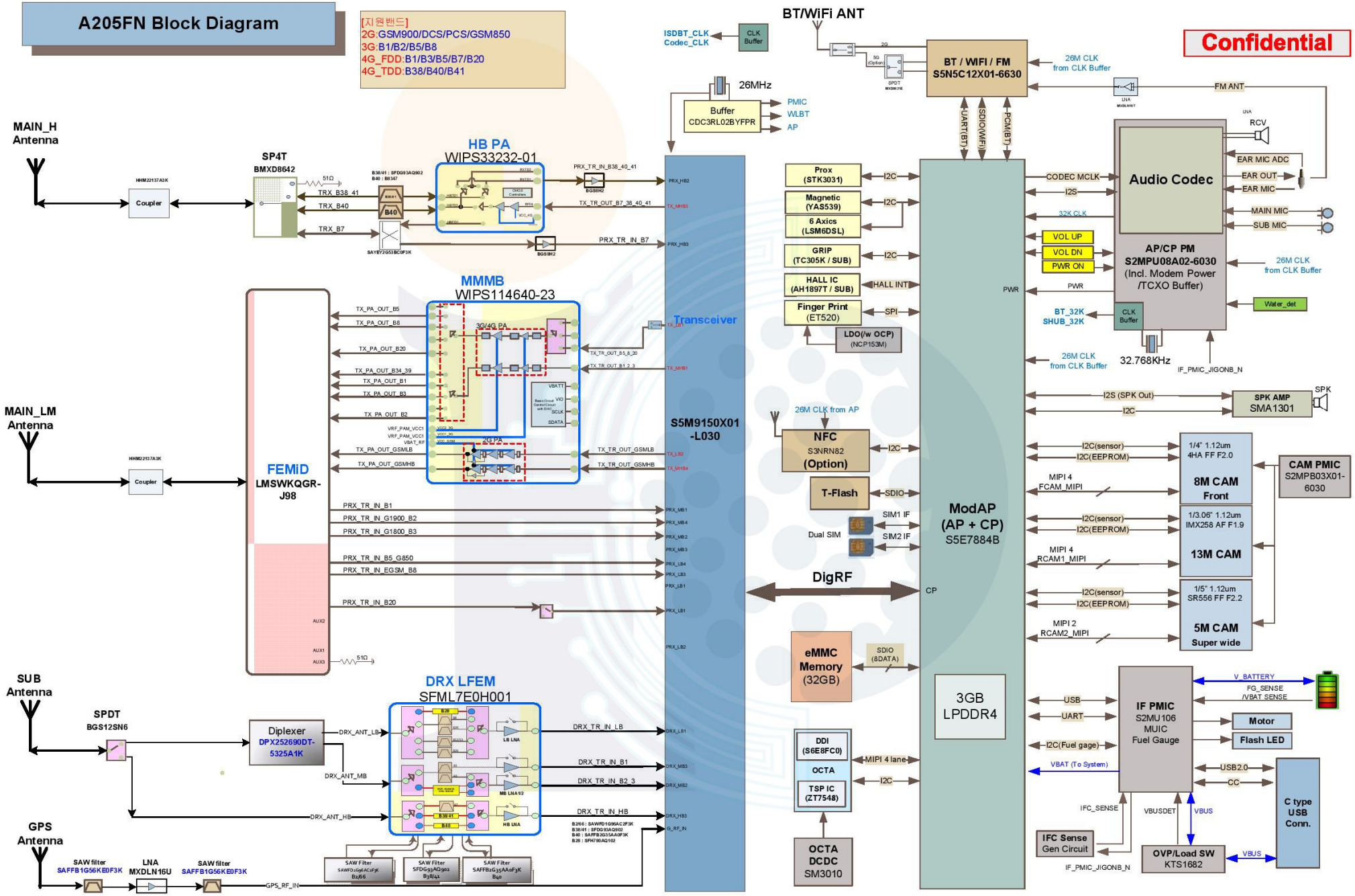
A205FN Block Diagram

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



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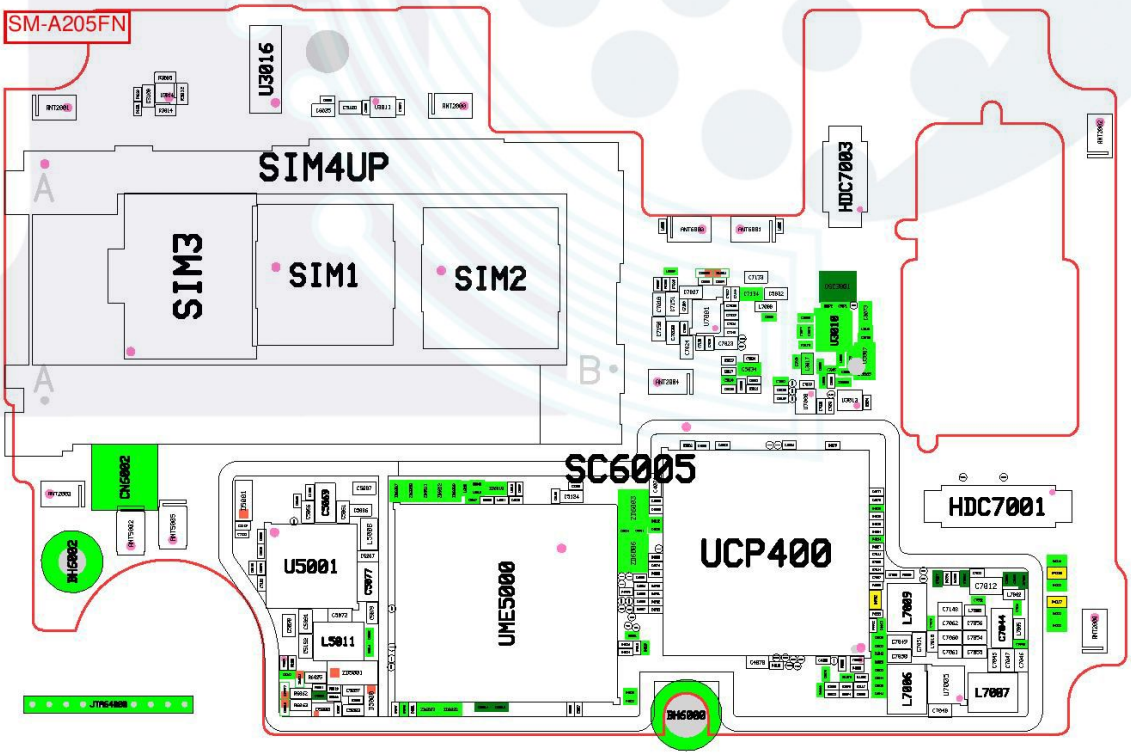

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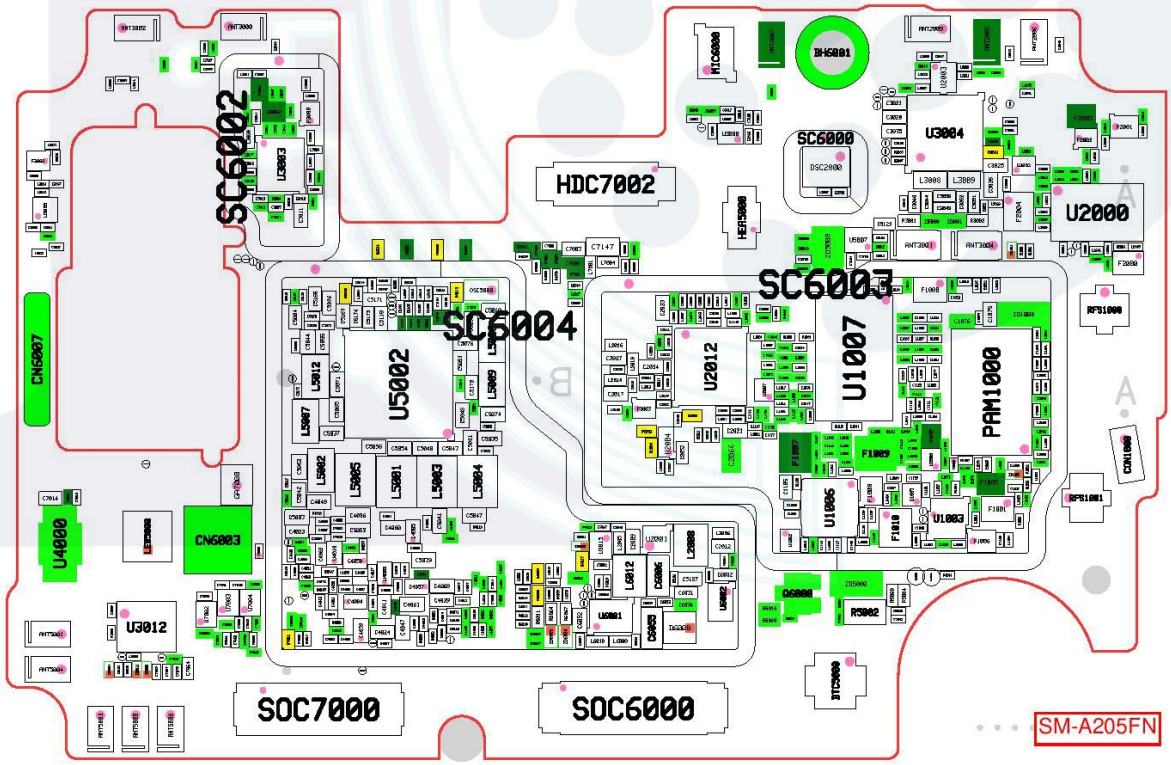

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A205F Block Diagram

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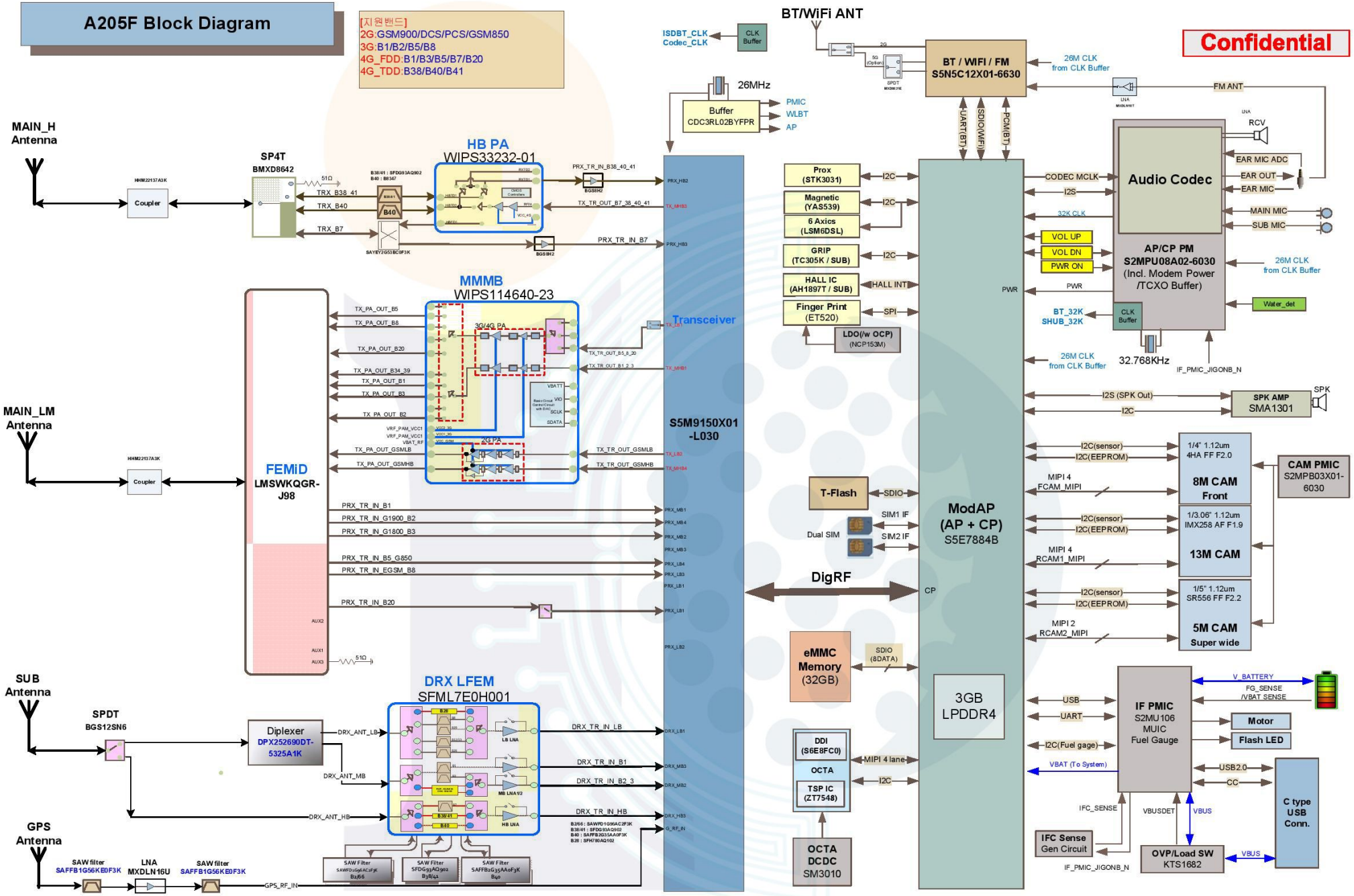
[지원밴드]
2G:GSM900/DCS/PCS/GSM850
3G:B1/B2/B5/B8
4G_FDD:B1/B3/B5/B7/B20
4G_TDD:B38/B40/B41



조성희05040835H/W개발1그룹(무선)**2525056 20190219175855

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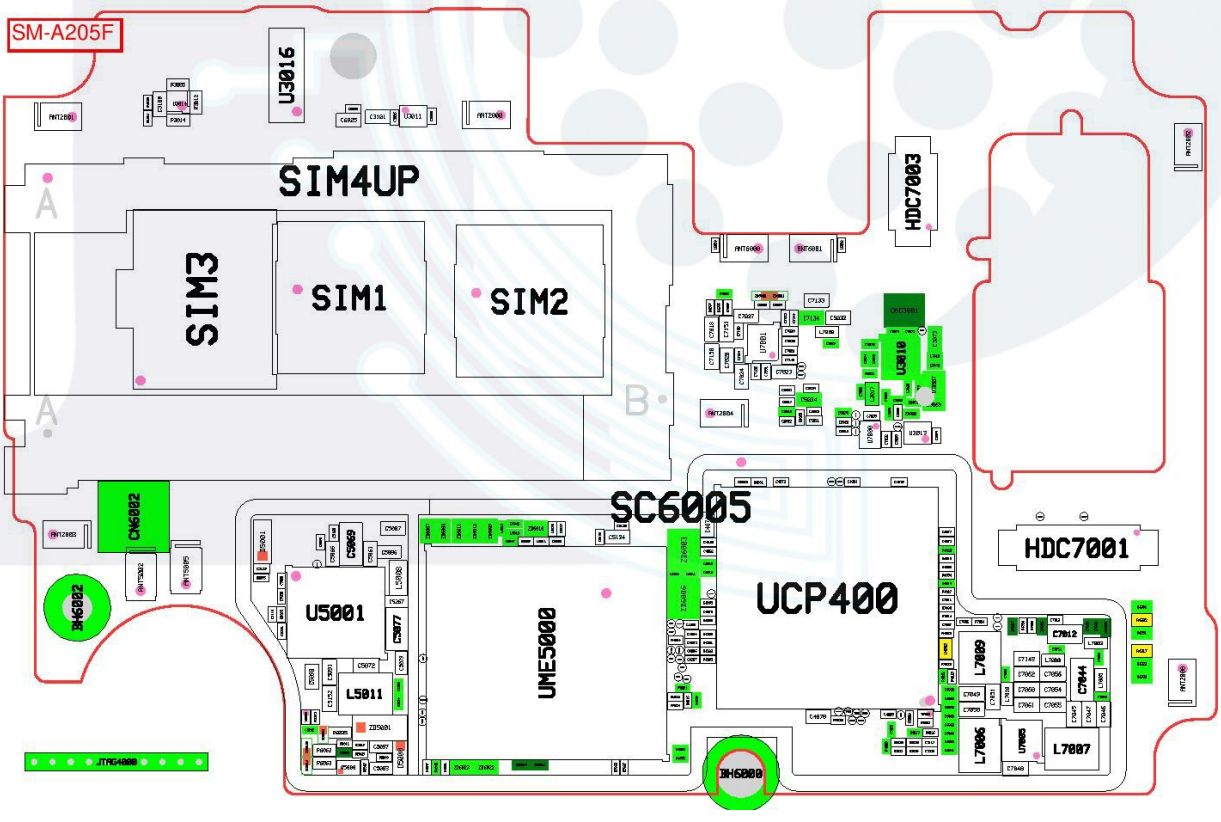

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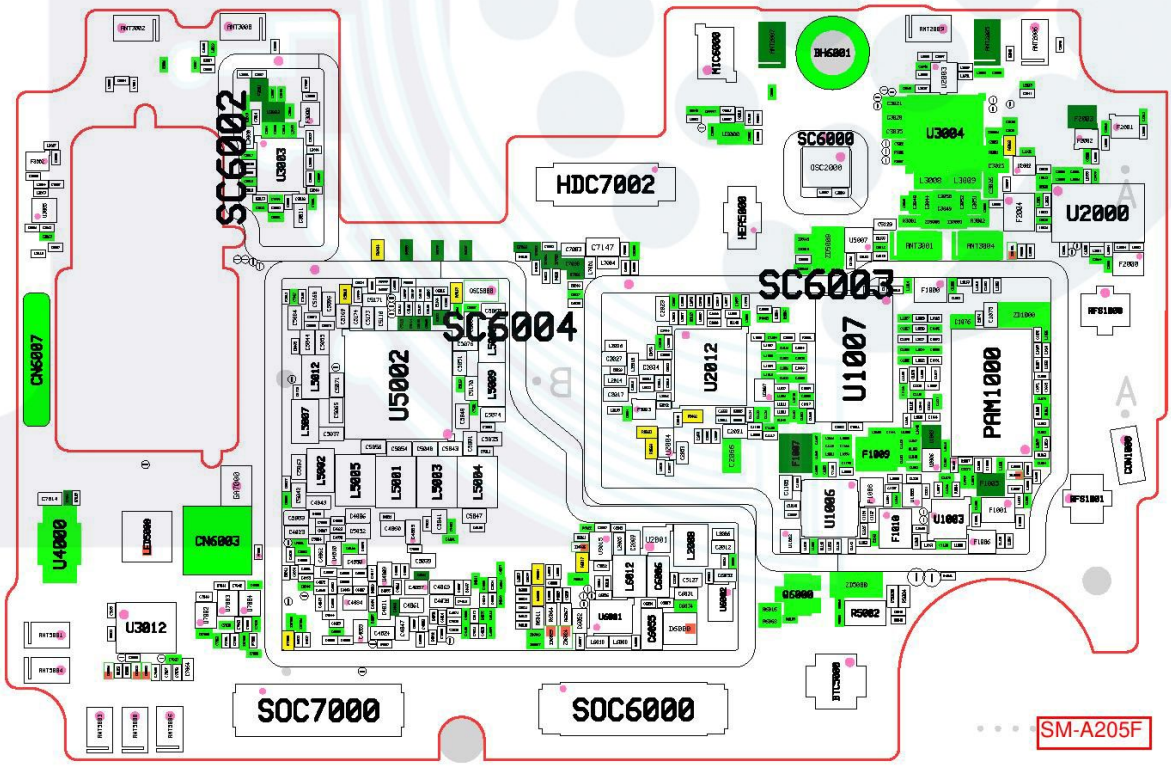

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A205G Block Diagram(Global)

[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

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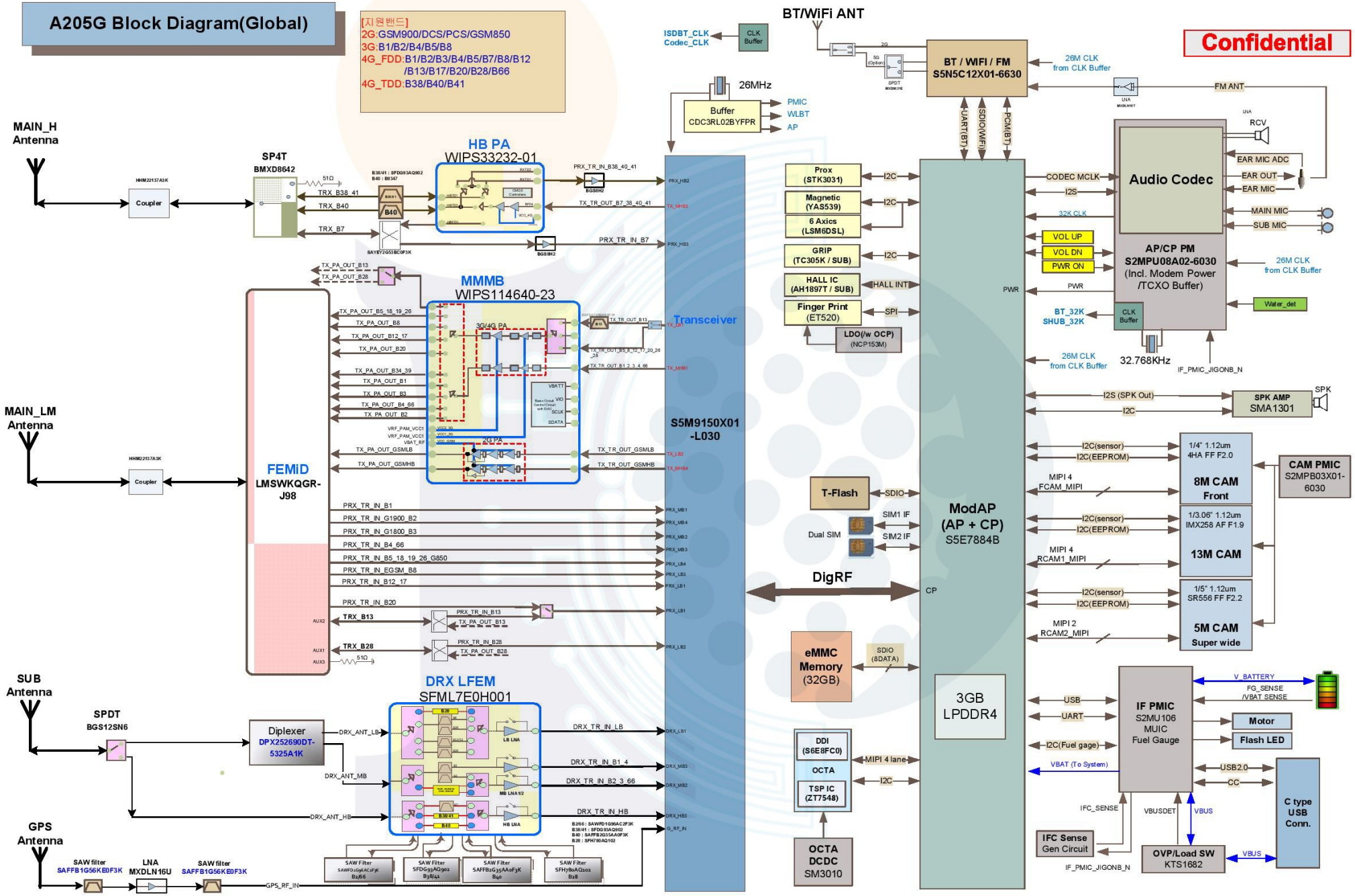

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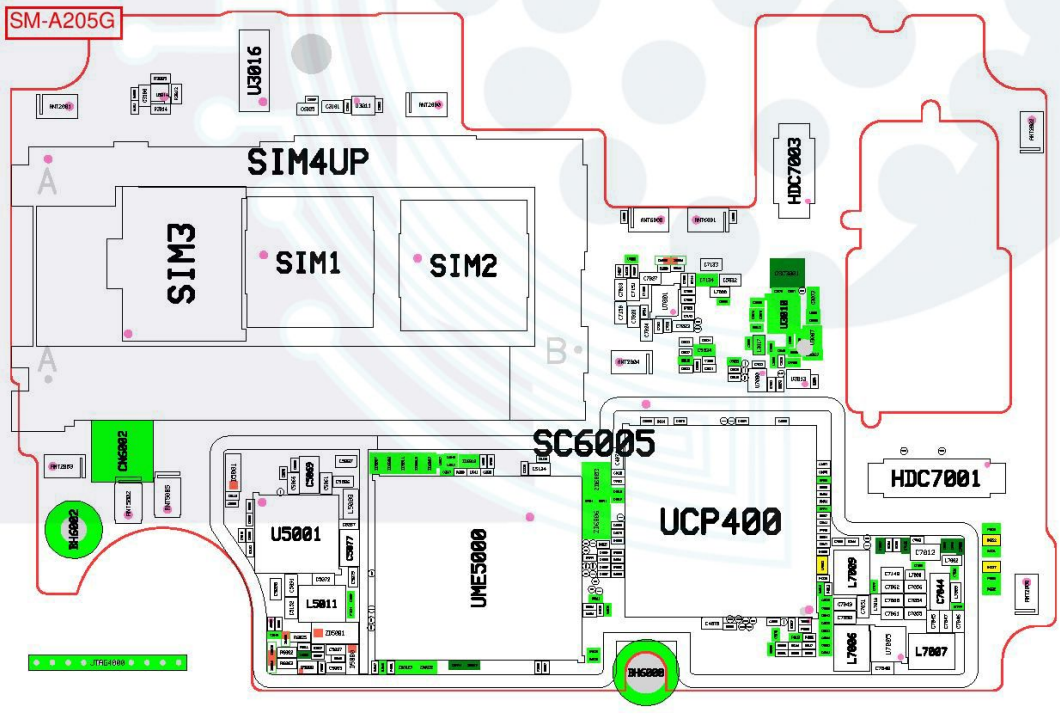

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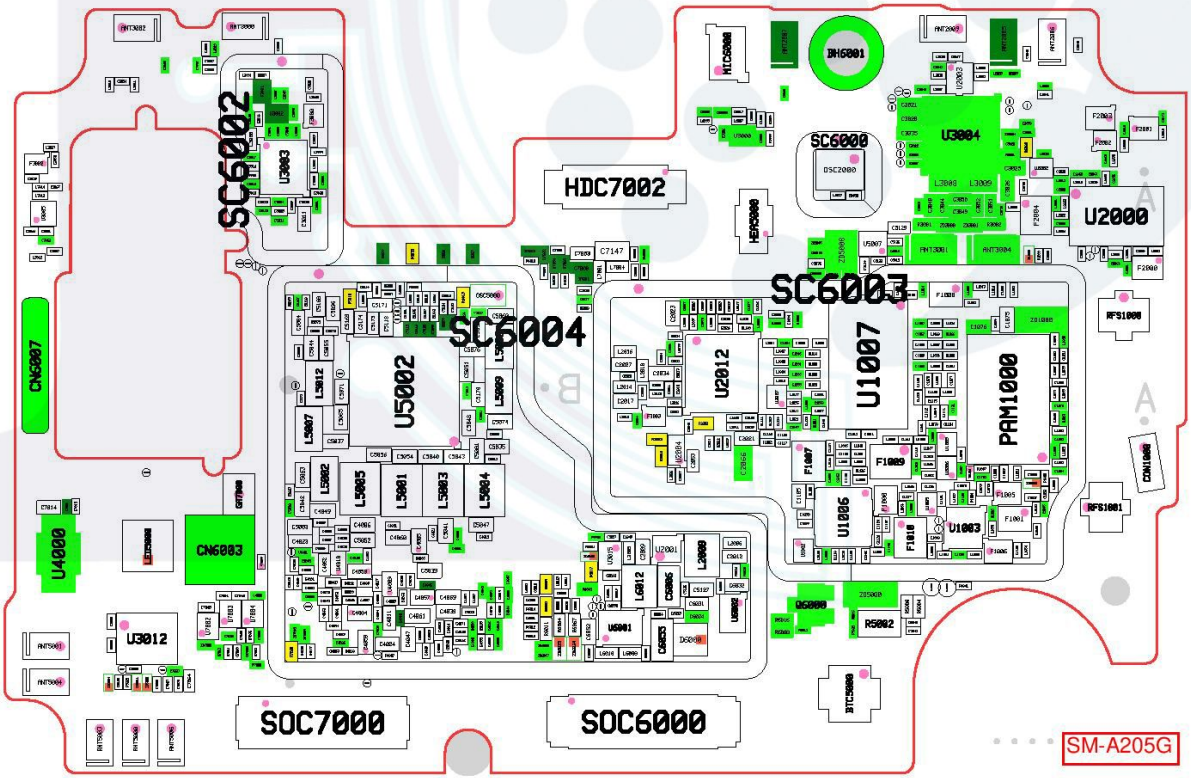

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A20GN Block Diagram(Global)

[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

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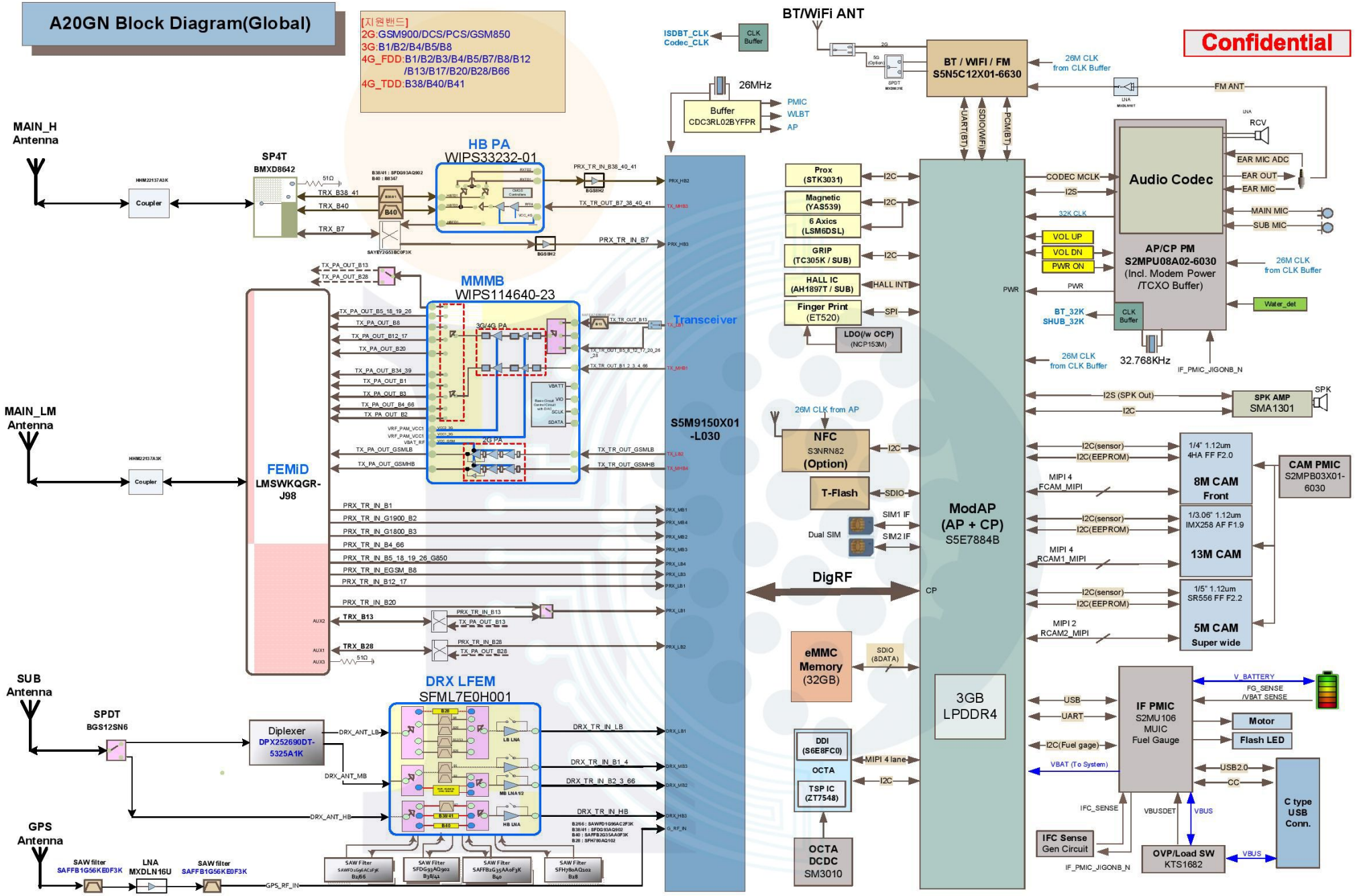

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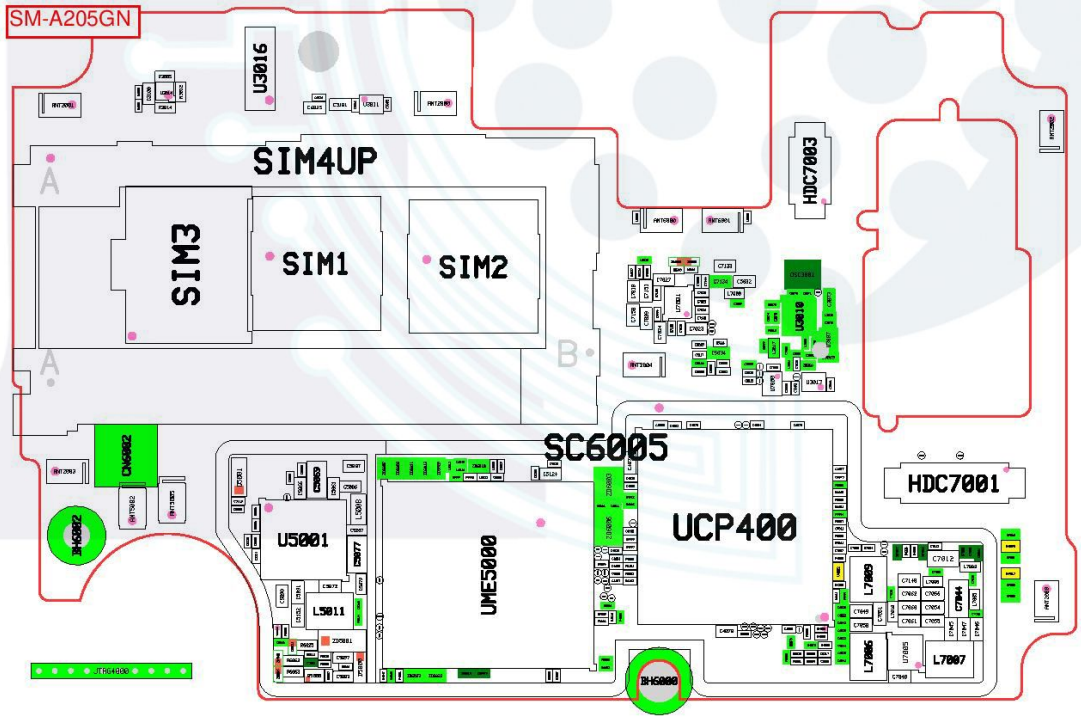

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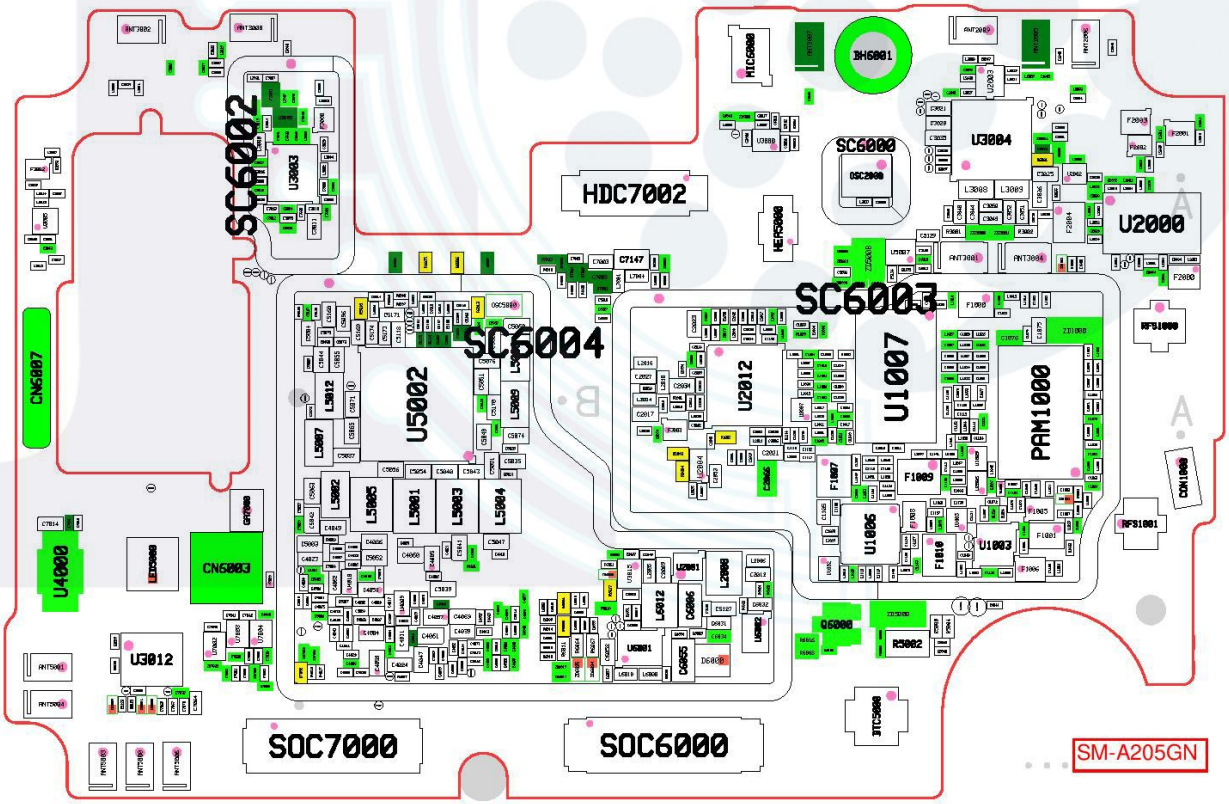
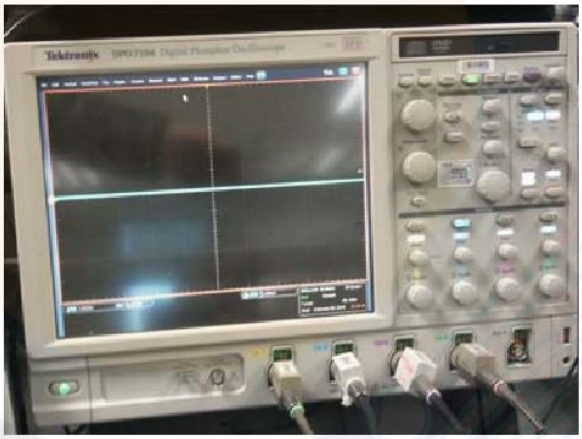
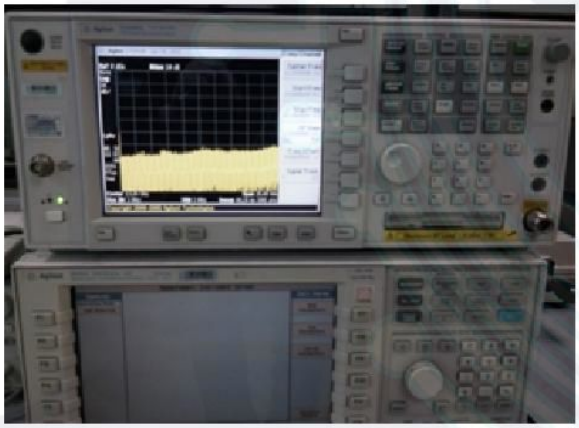


8. Level 3 Repair

8-3. Flow chart of Troubleshooting.

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

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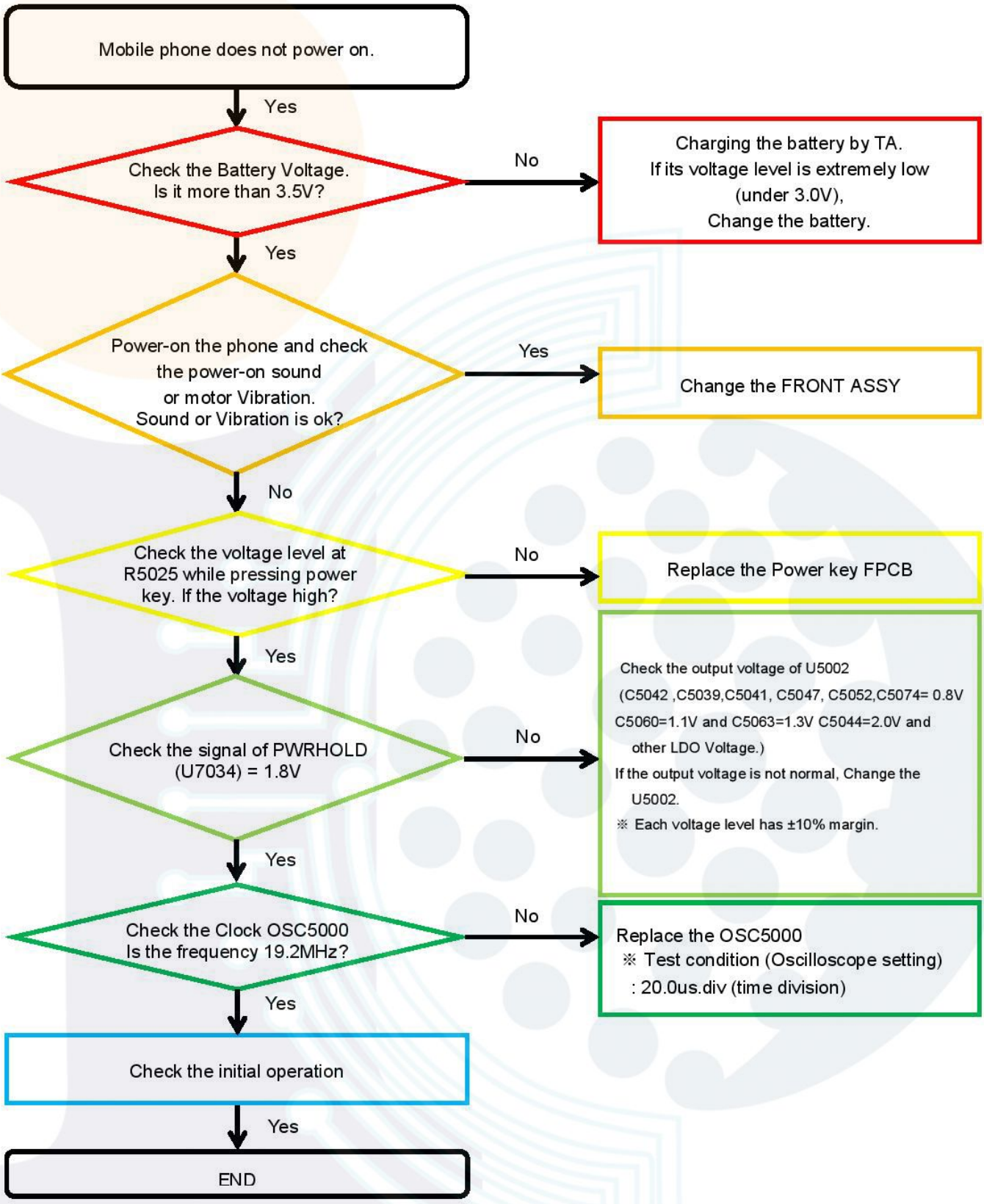
8-4-1. Power On



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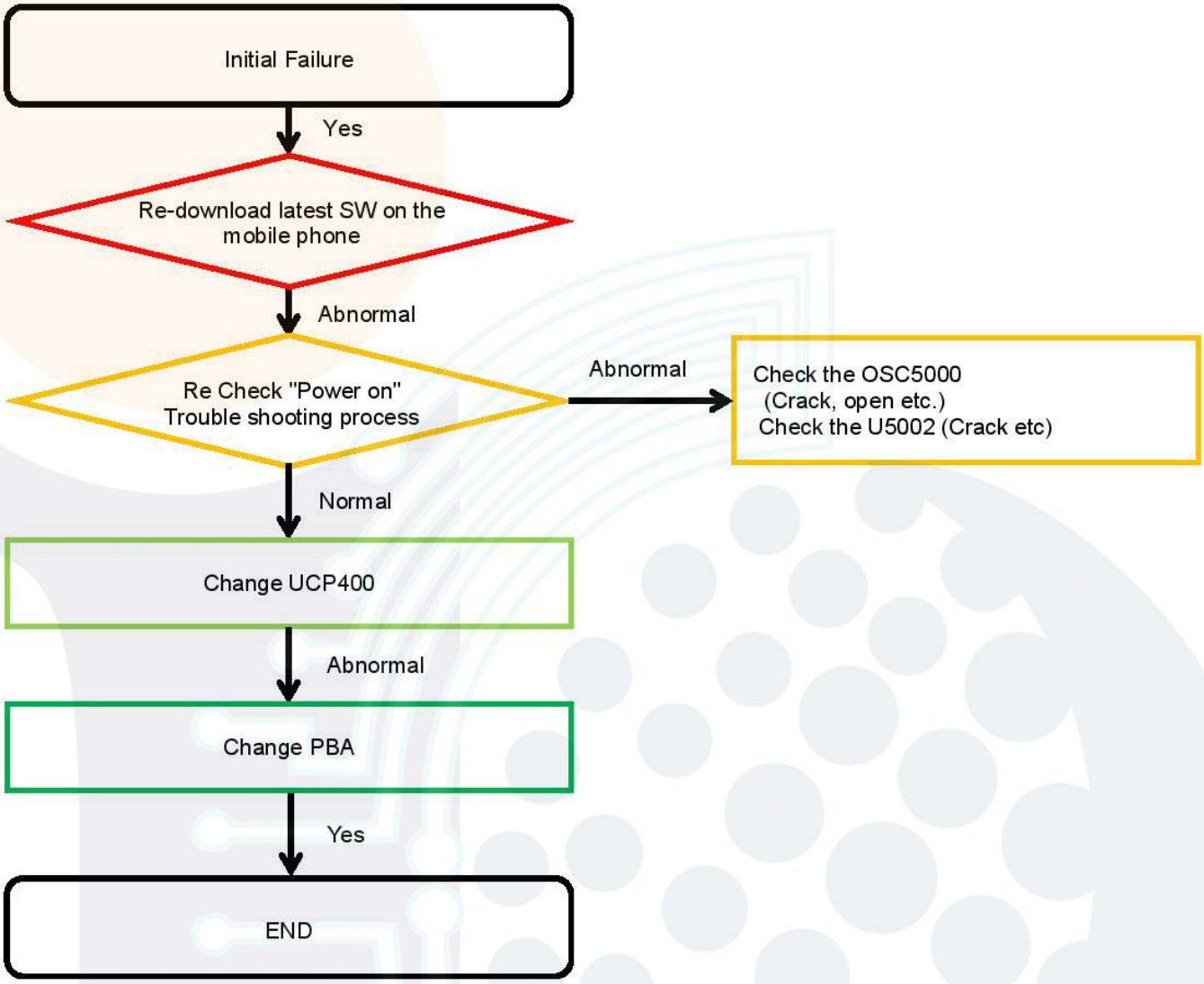
8-4-2. Initial



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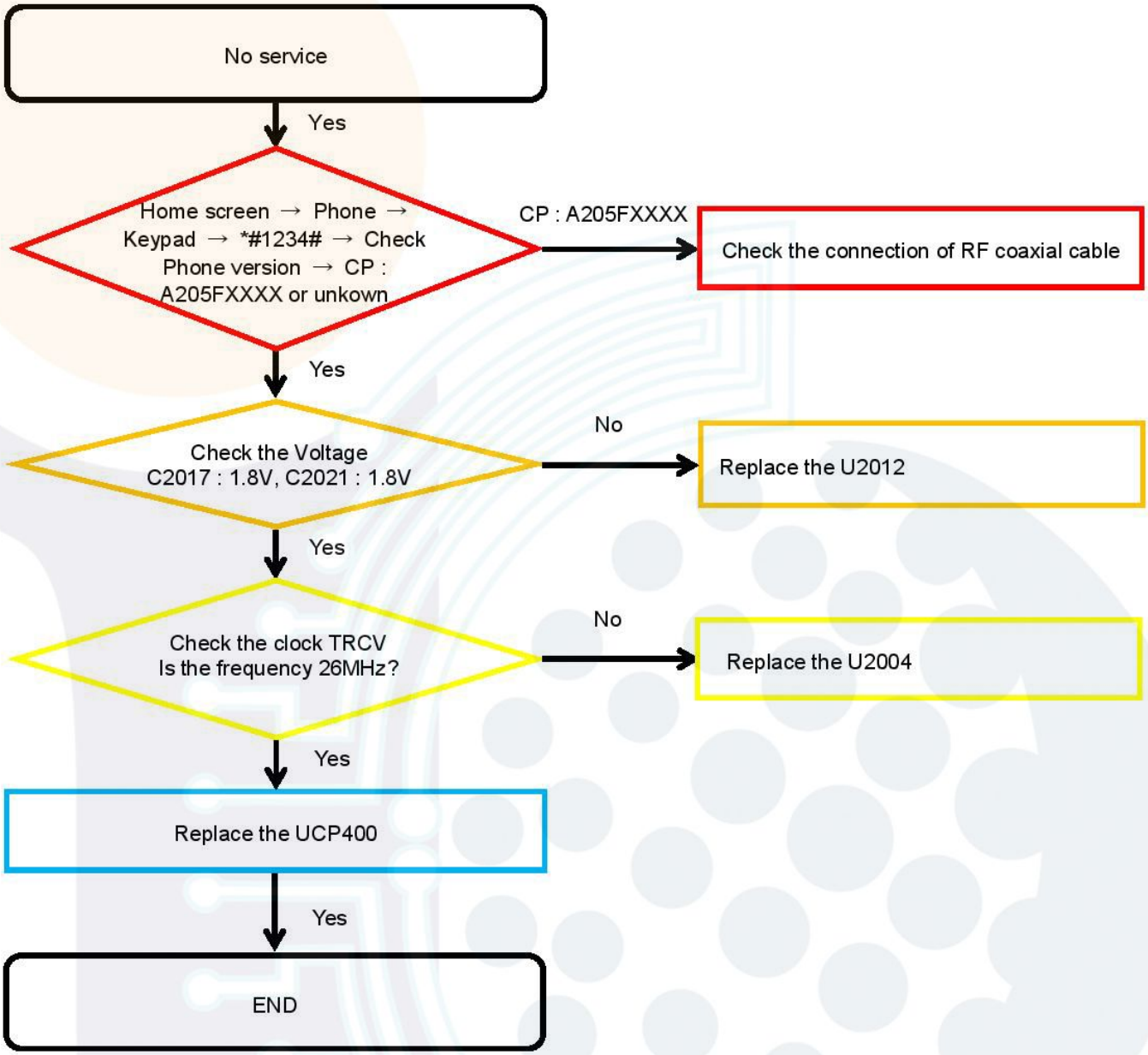
8-4-3. No Service



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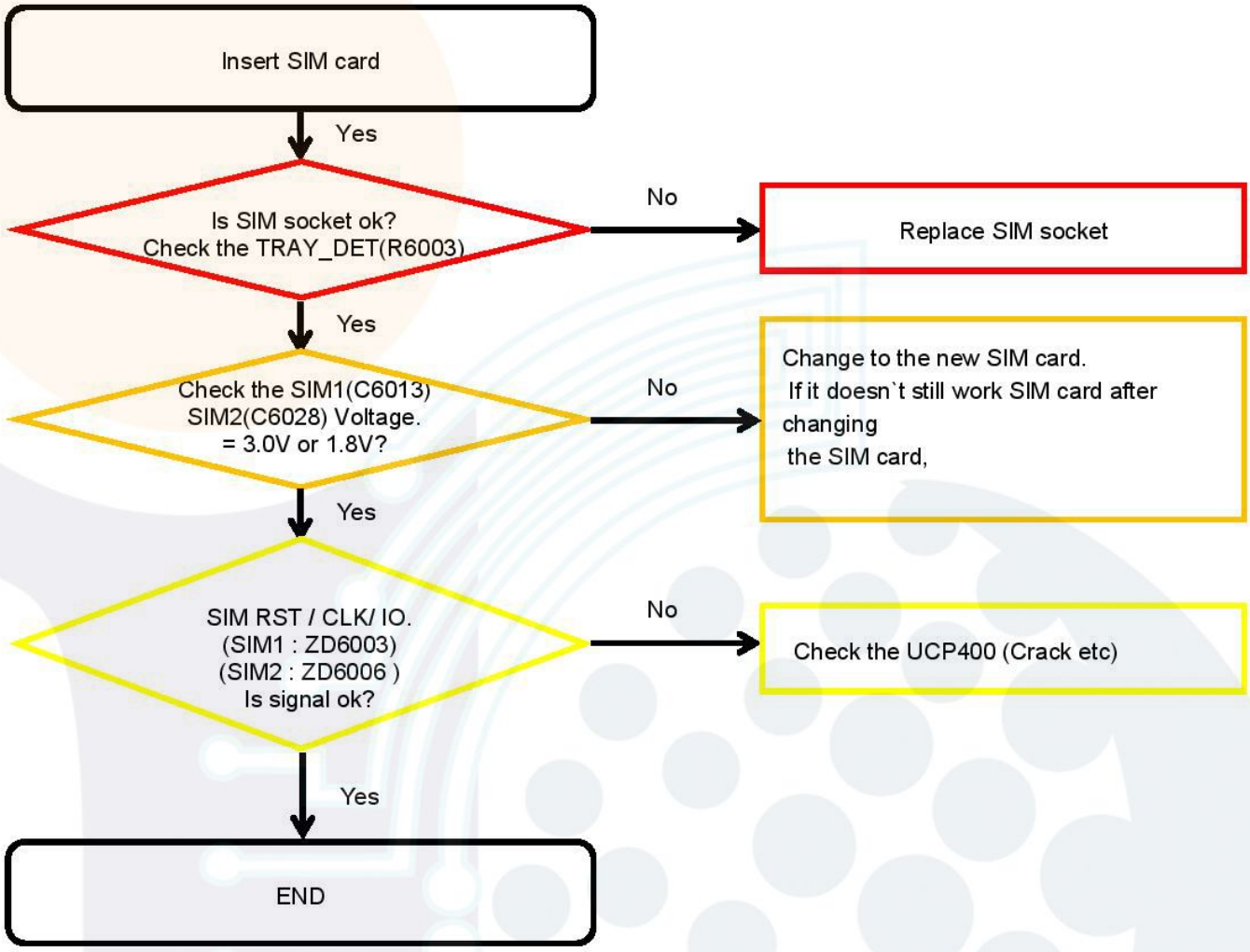
8-4-4. SIM Part



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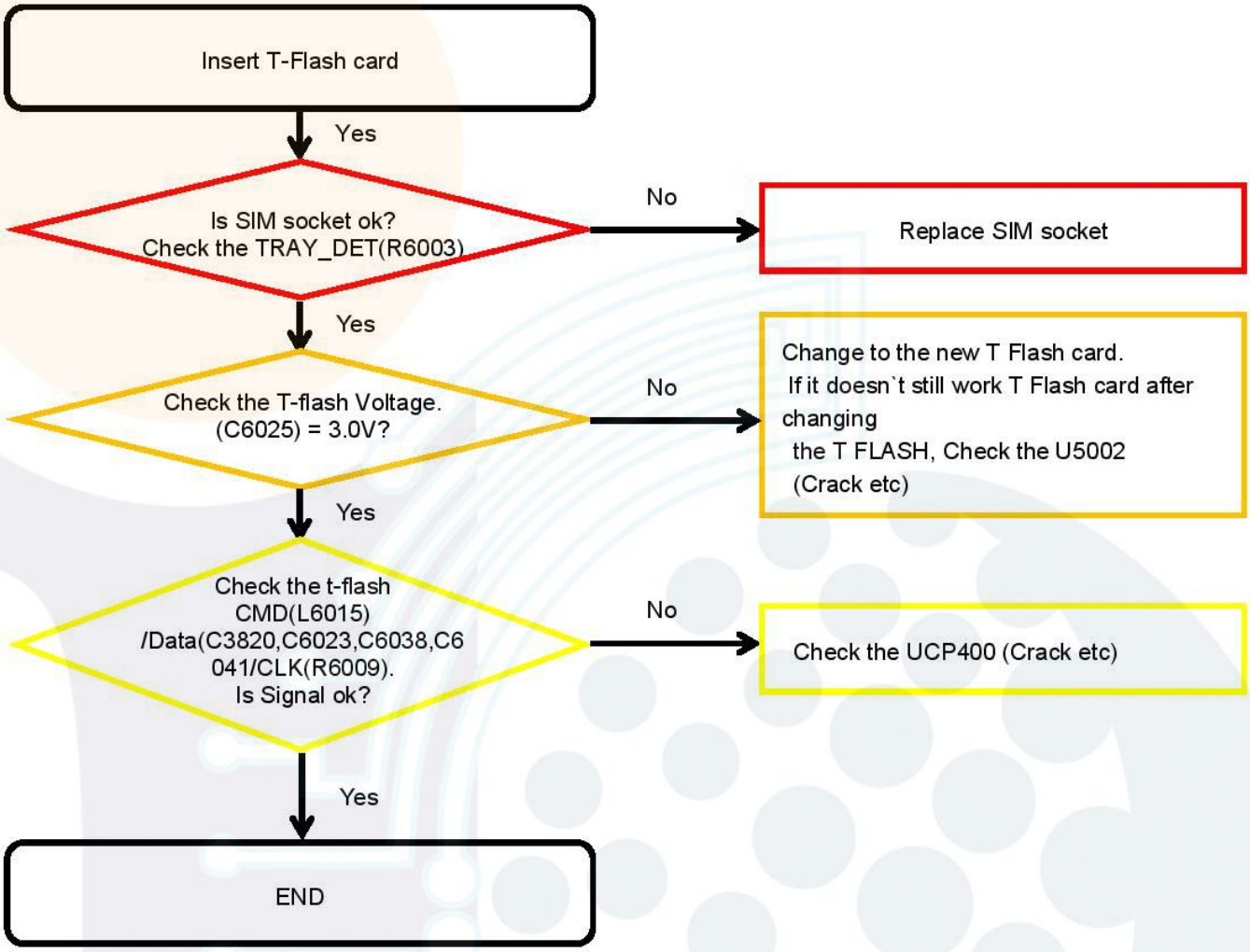
8-4-5. T-Flash Part



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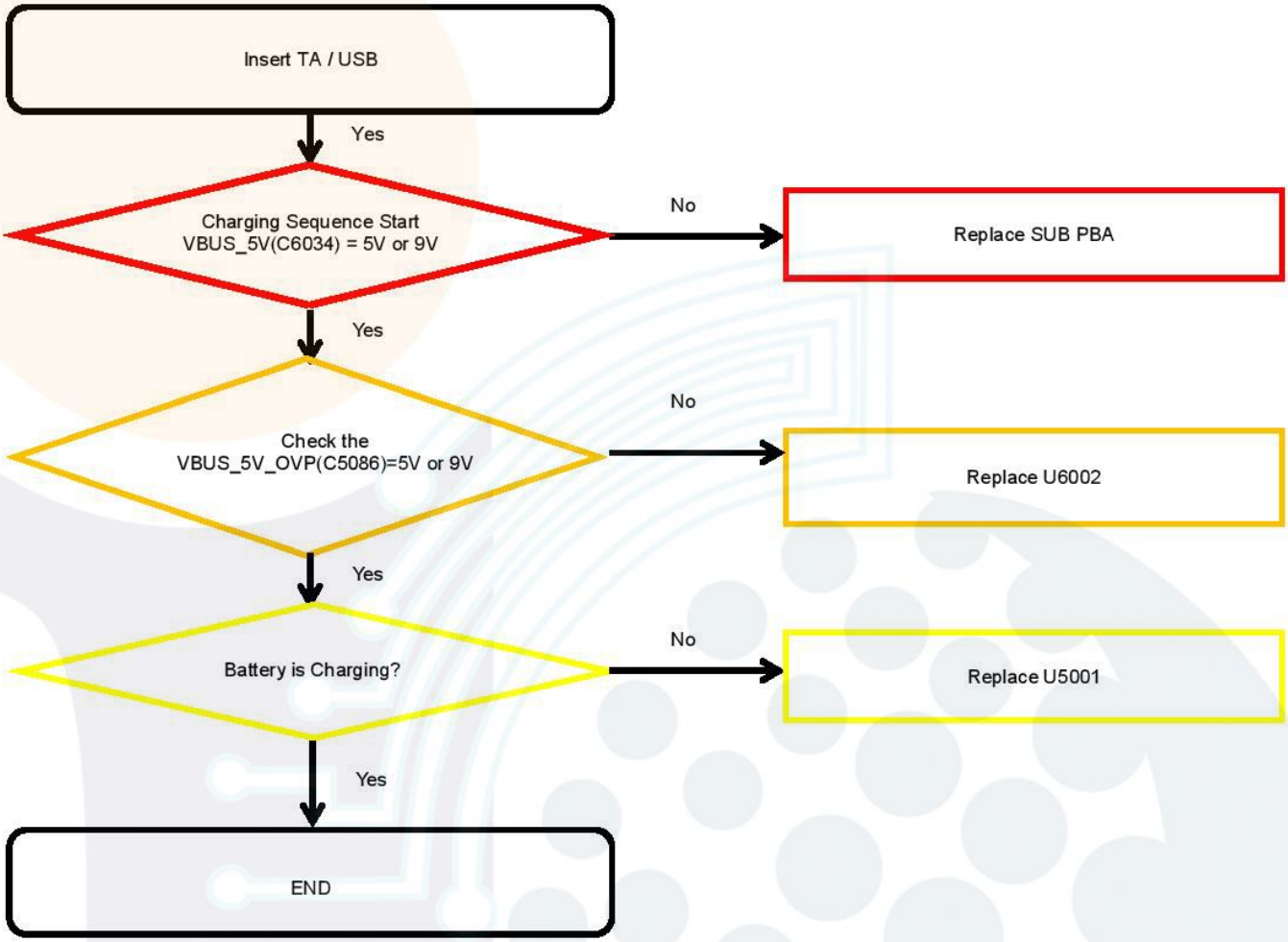
8-4-6. Cable Charging Part



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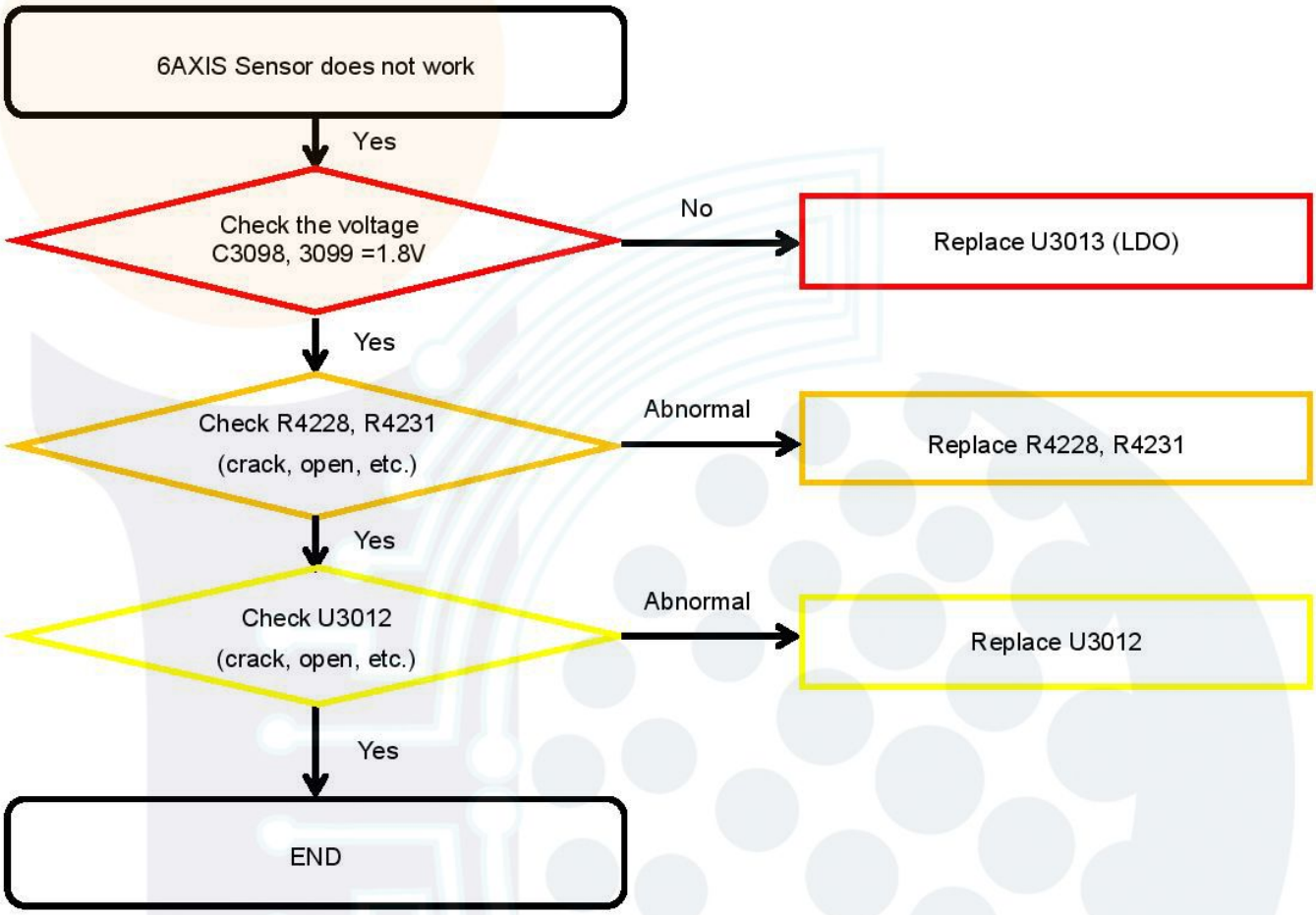
8-4-7-1. 6AXIS (Accelerator+Gyro) Sensor



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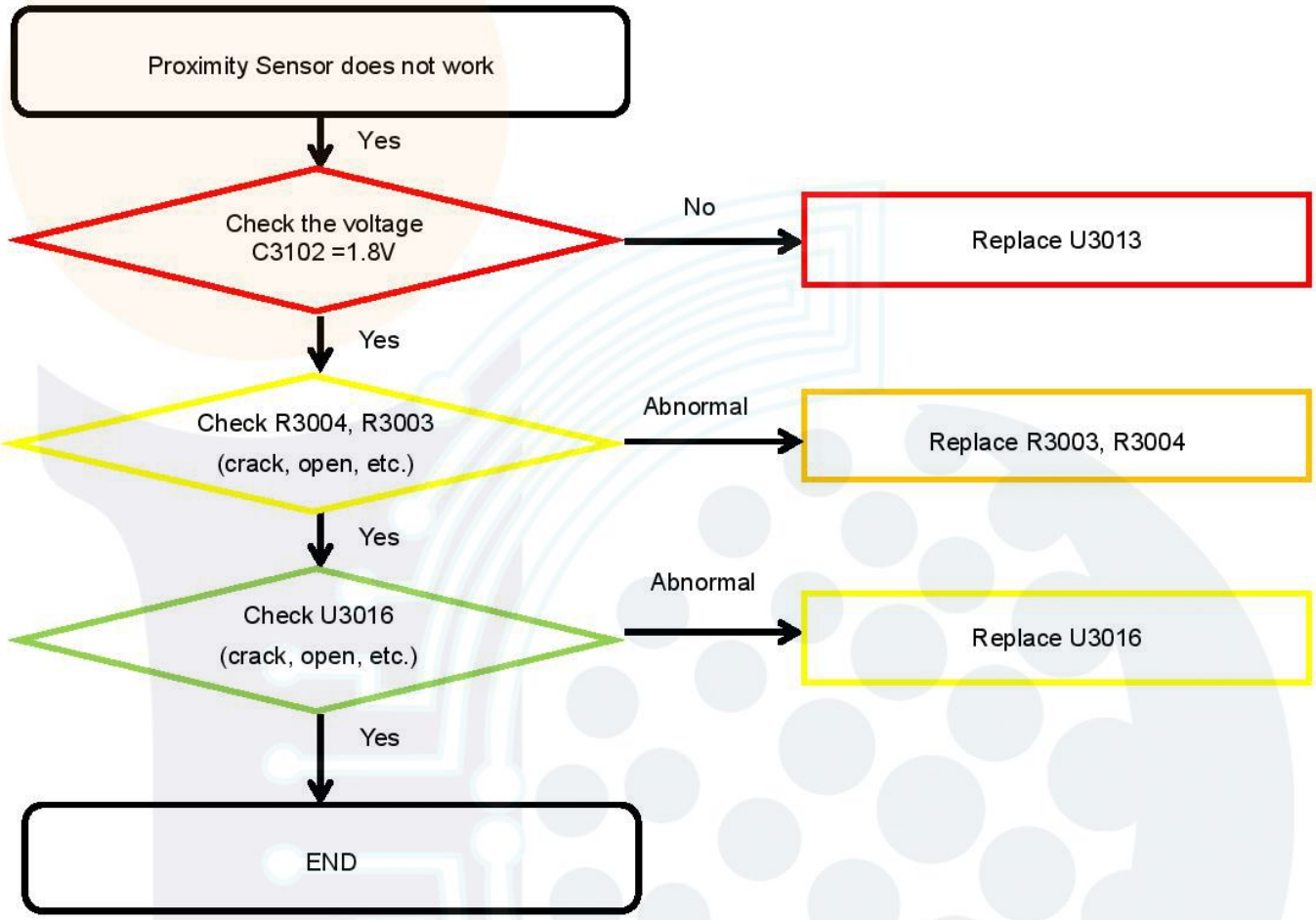
8-4-7-2. Proximity sensor



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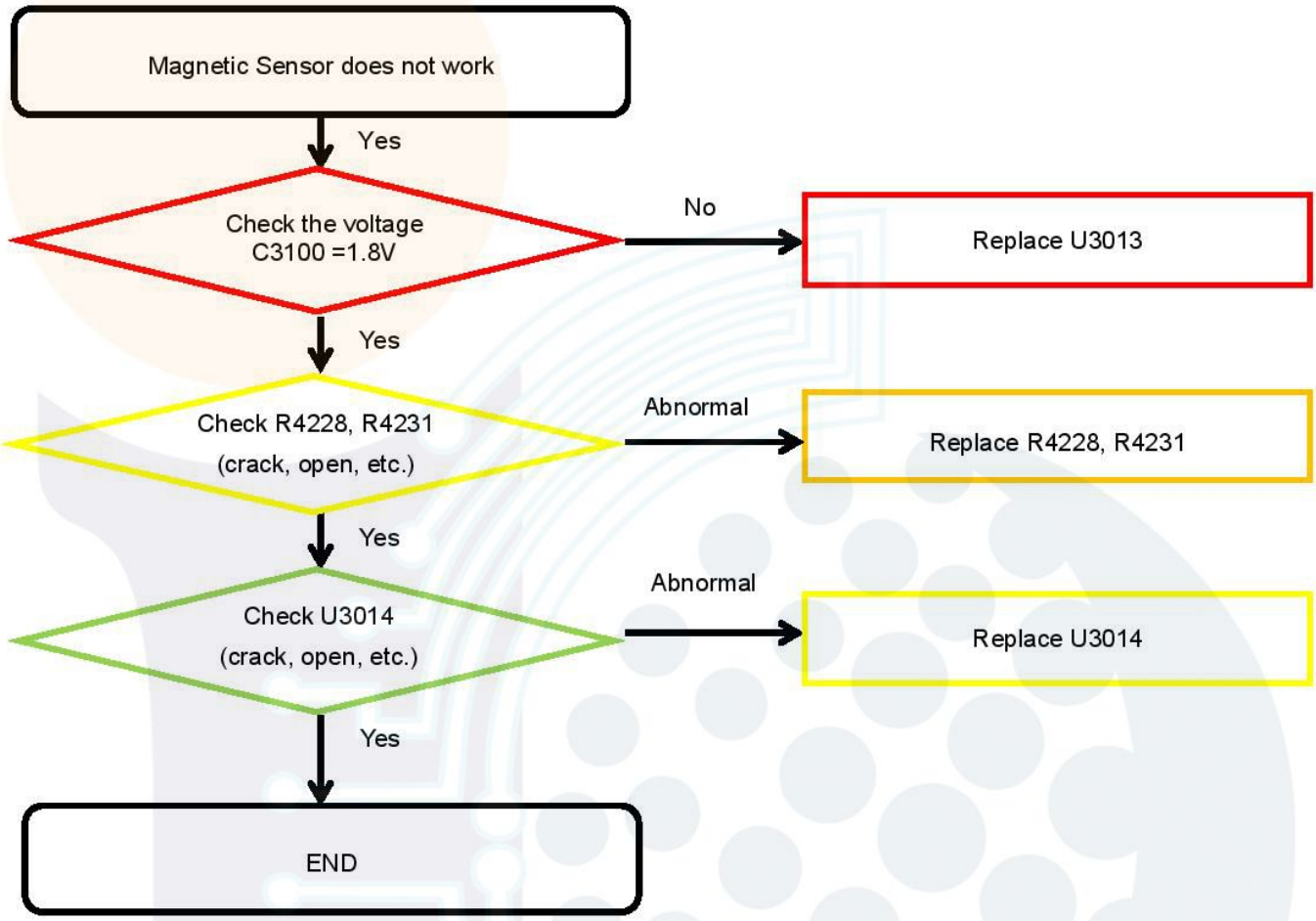
8-4-7-3. Magnetic sensor



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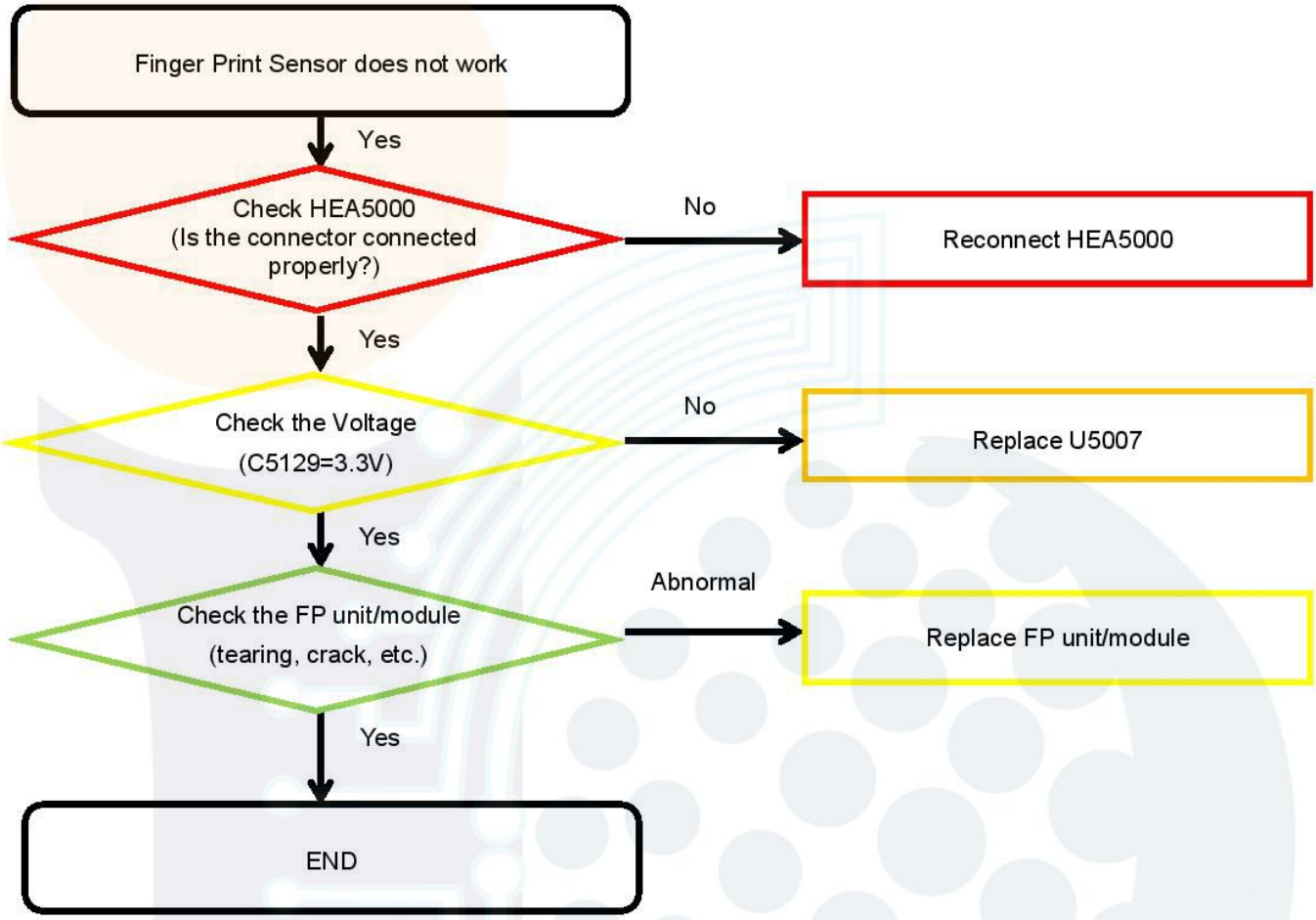
8-4-7-4. Finger Print sensor



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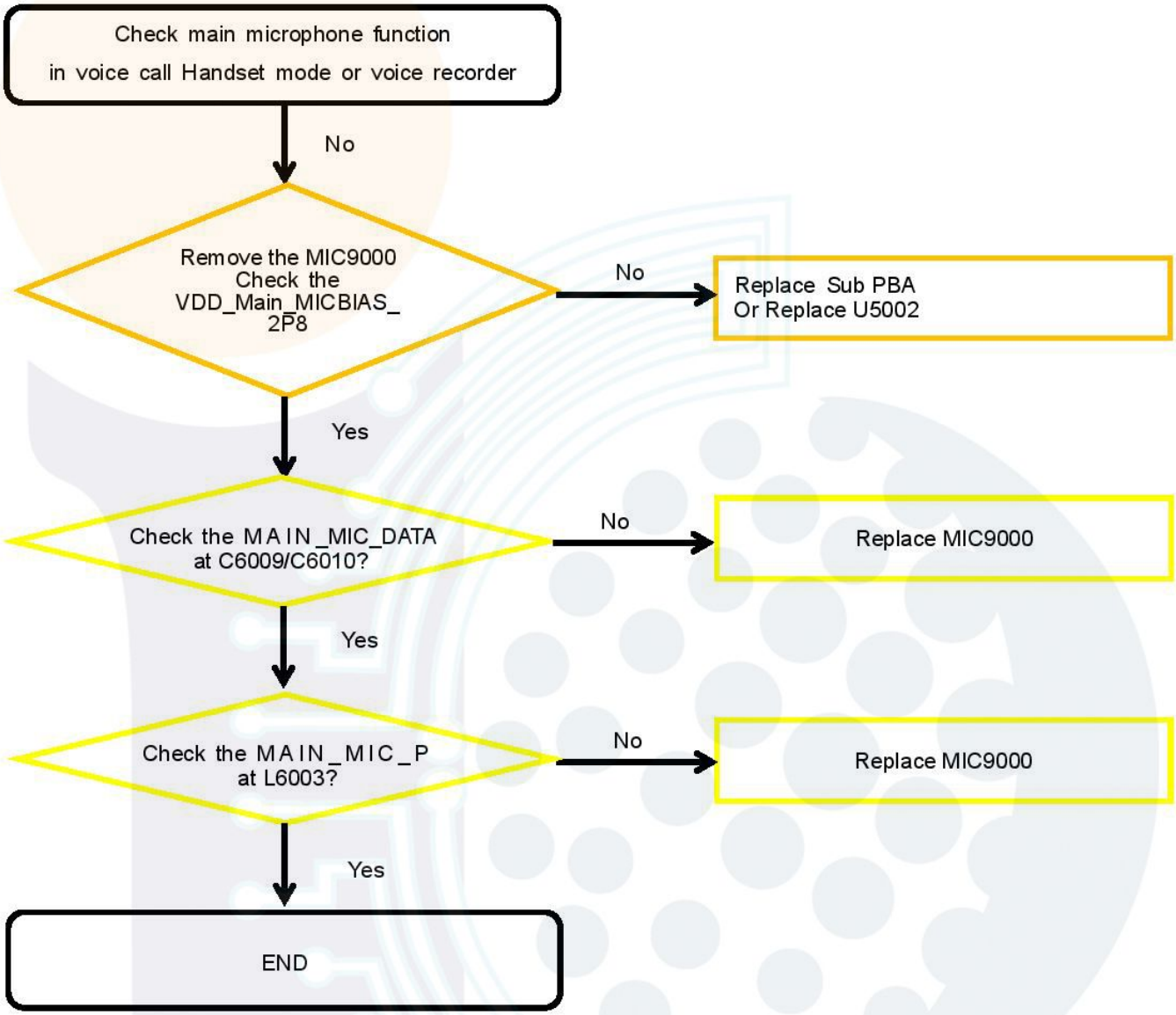
8-4-8-1. Microphone Part - Main MIC



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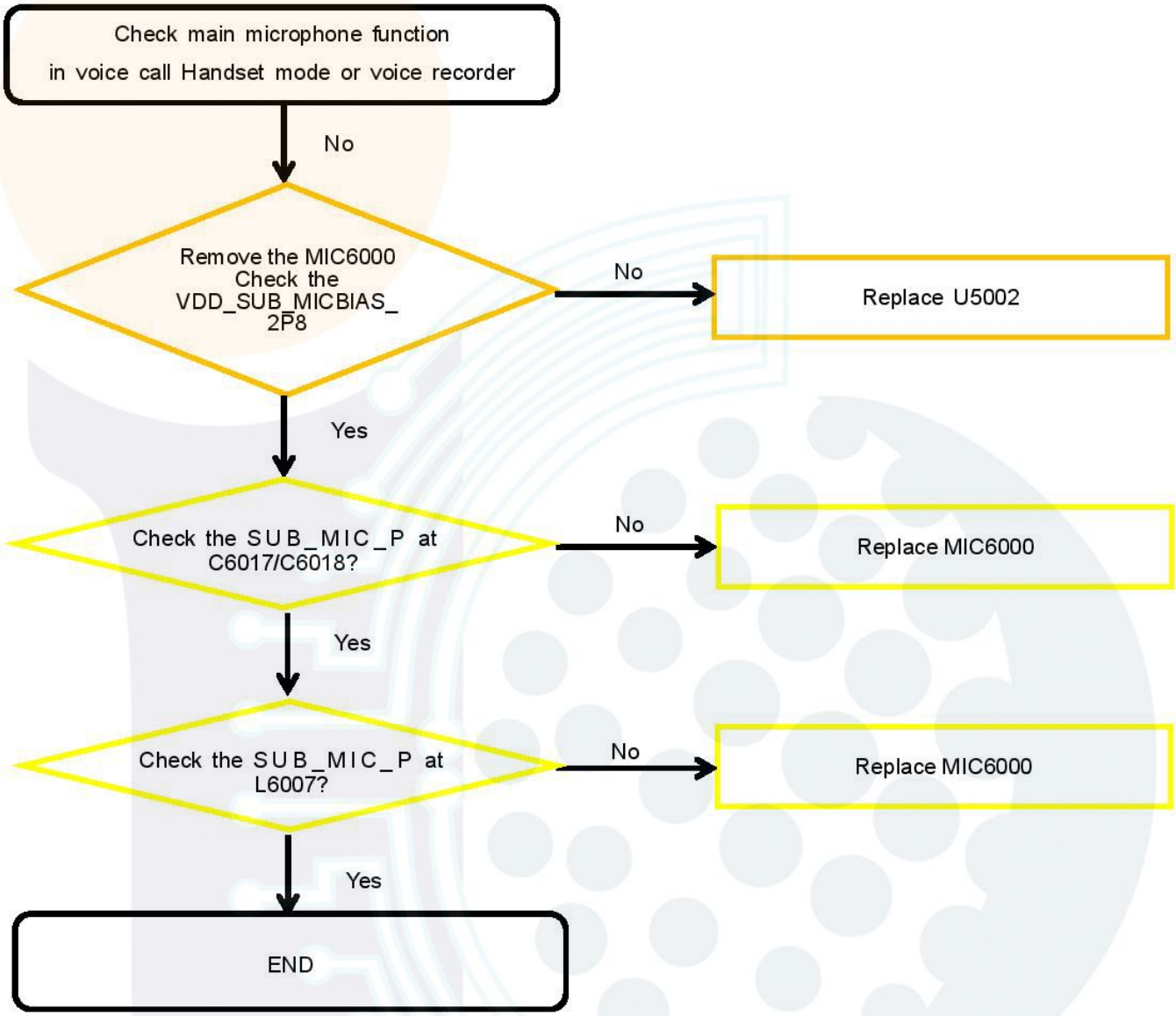
8-4-8-2. Microphone Part - Sub MIC



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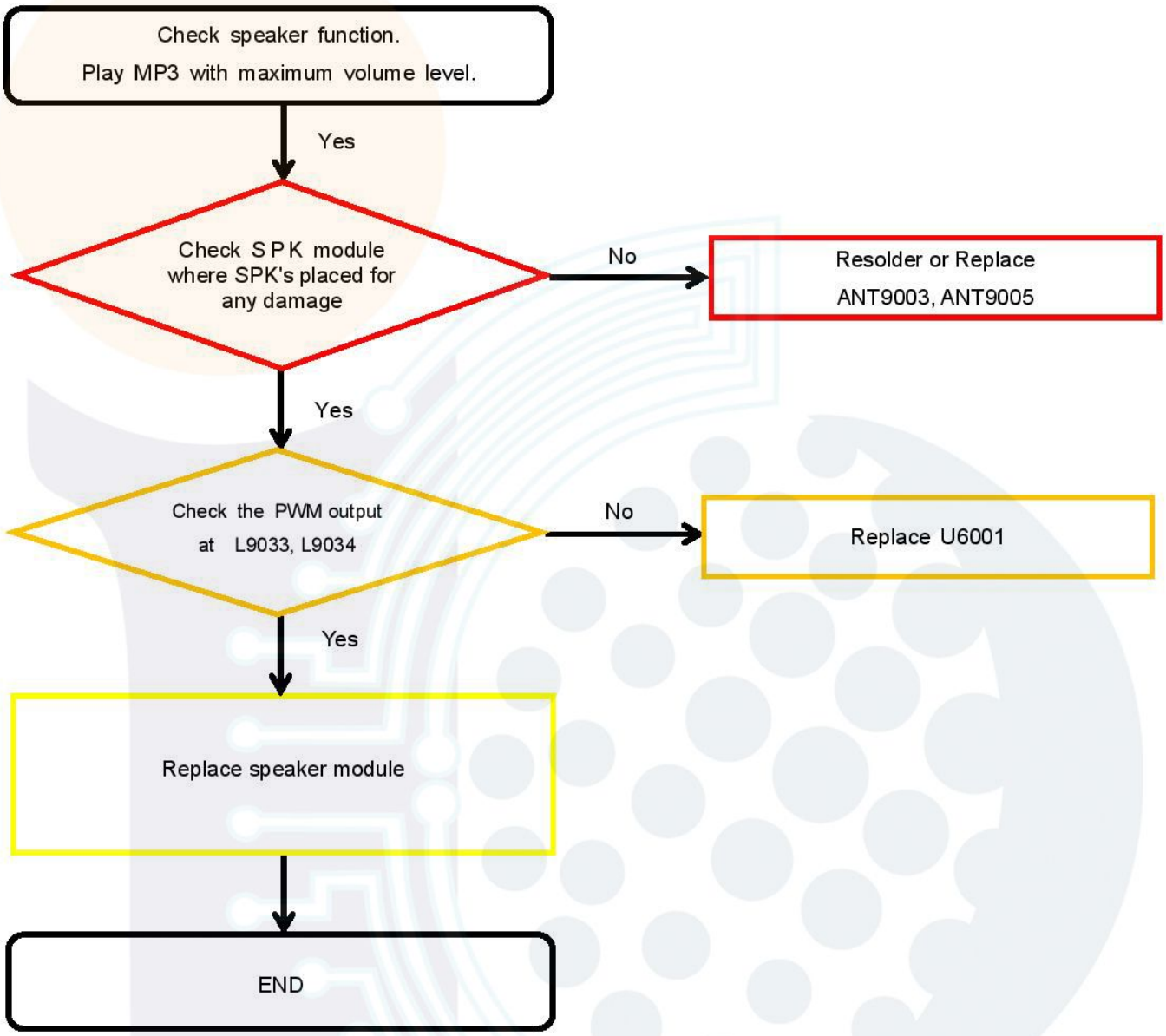
8-4-9. Speaker Part



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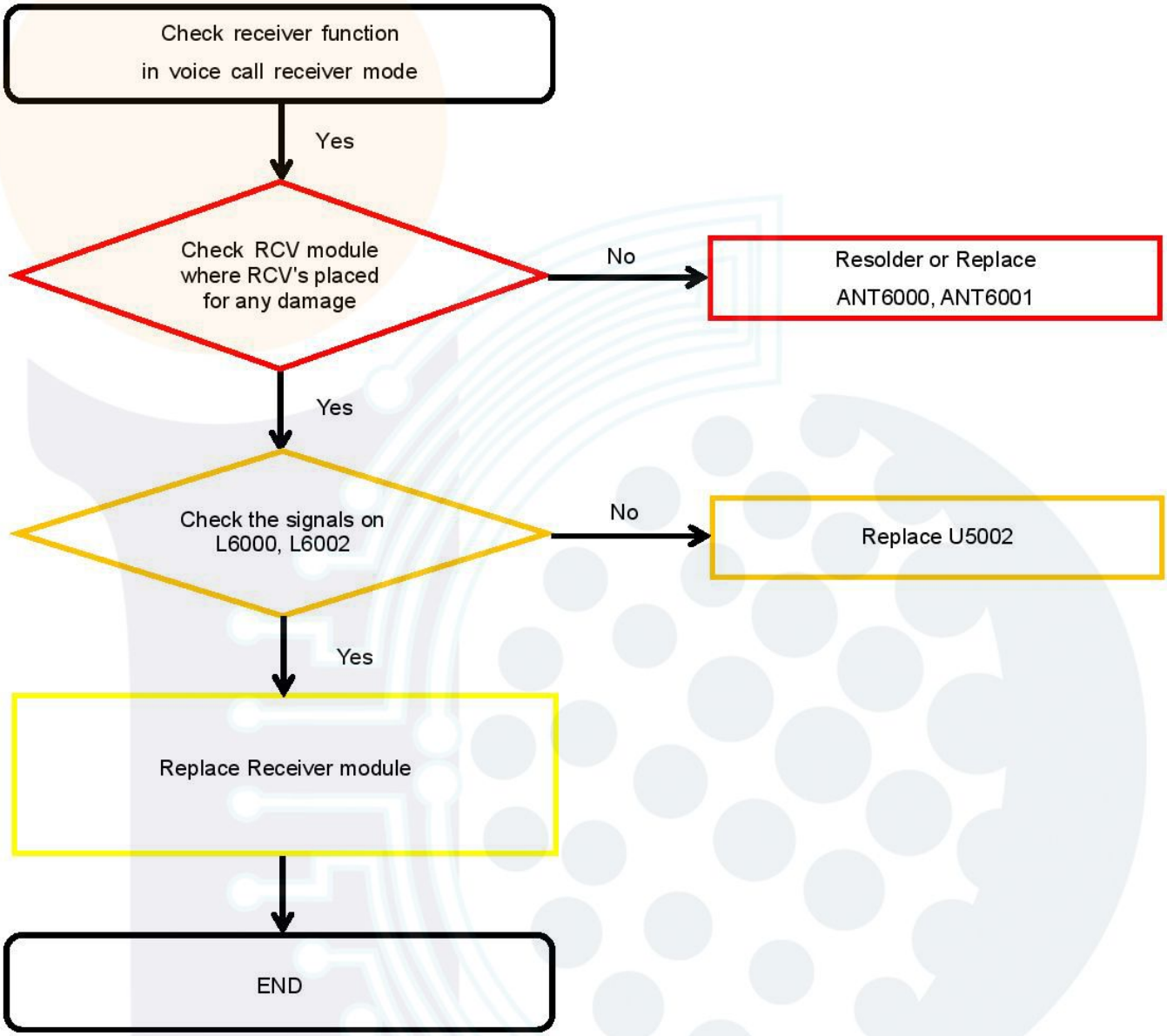
8-4-10. Receiver Part



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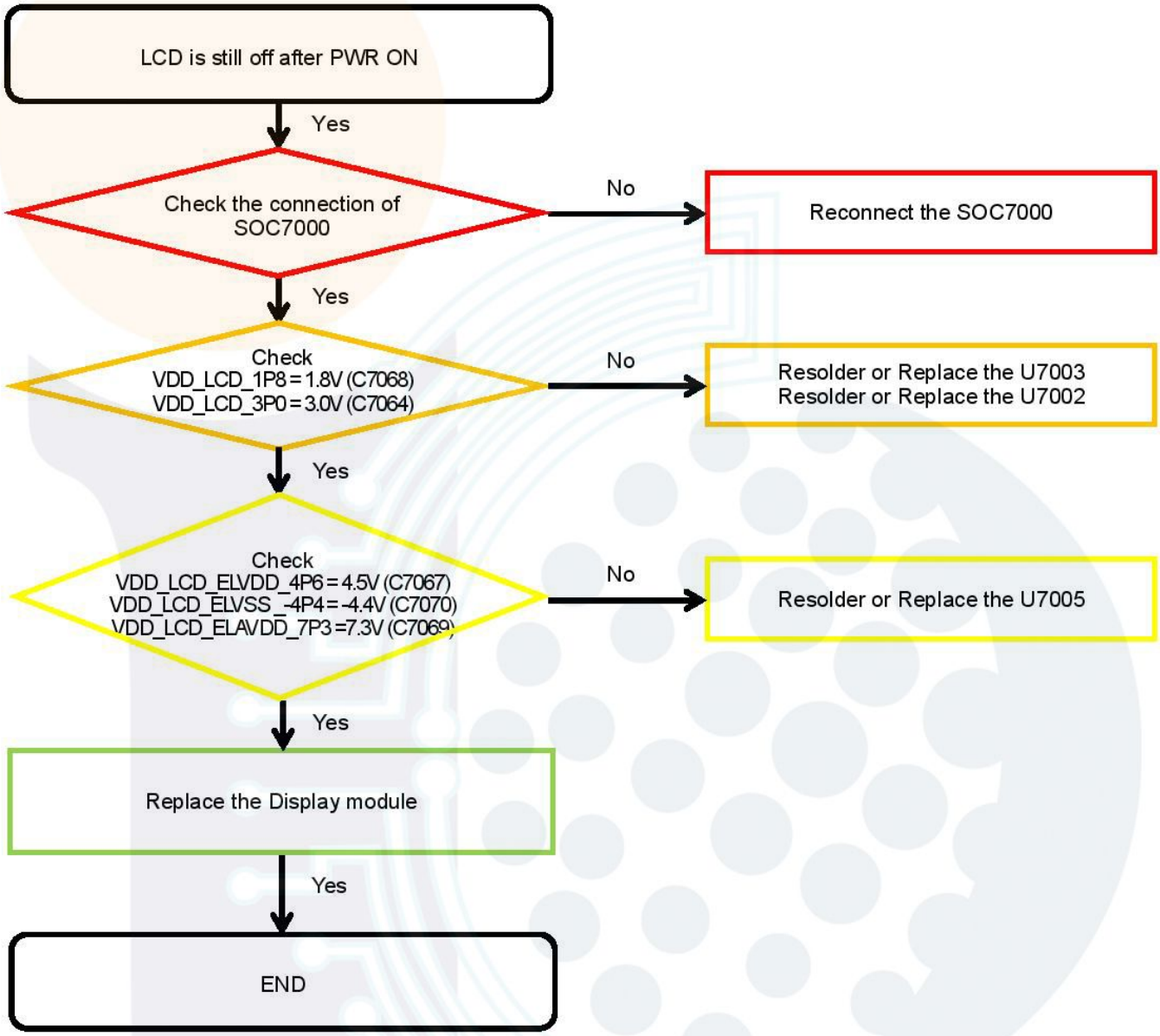
8-4-11. Display



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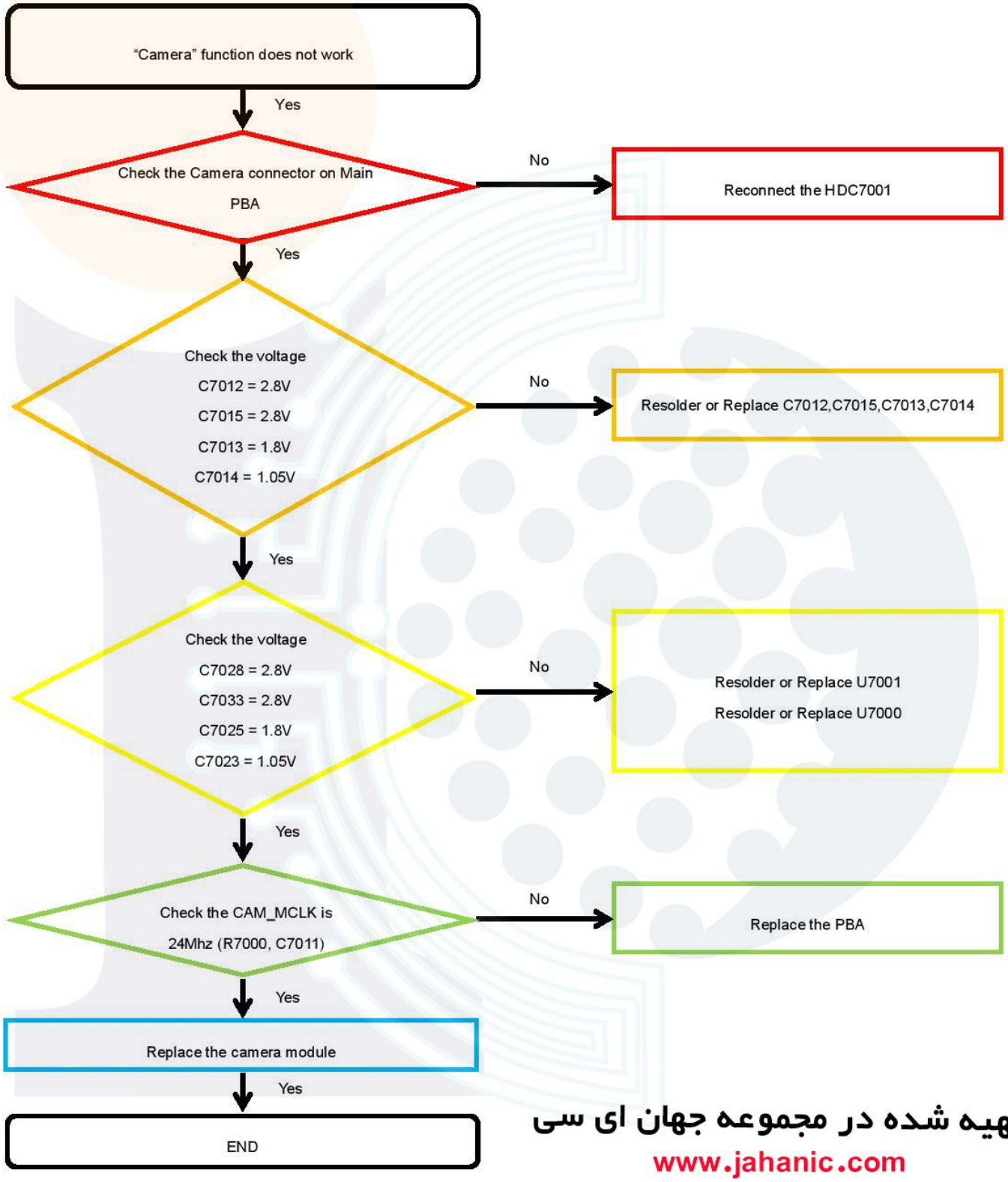
8. Level 3 Repair

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



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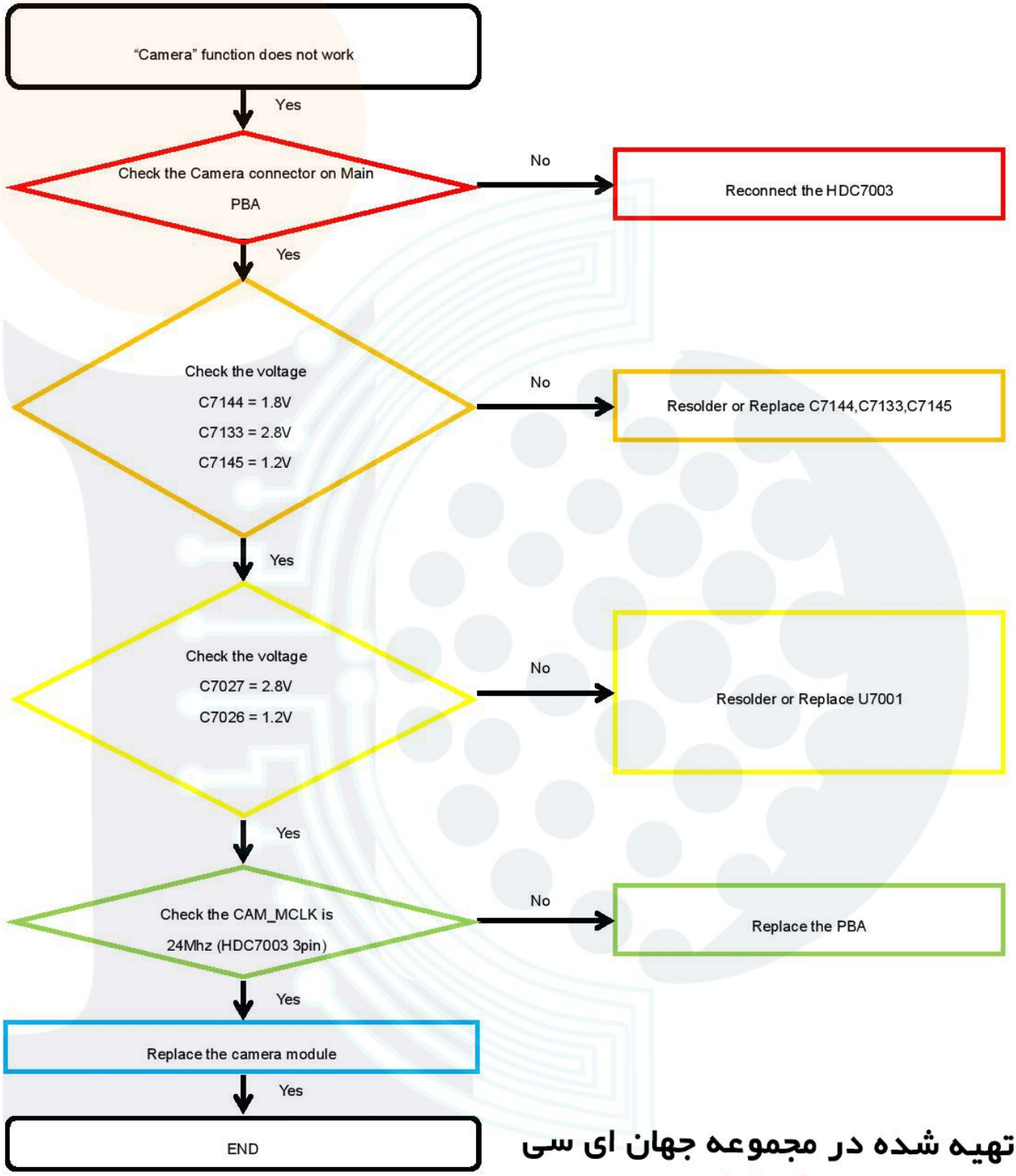
8-4-12-2. 5M FF Rear CAMERA



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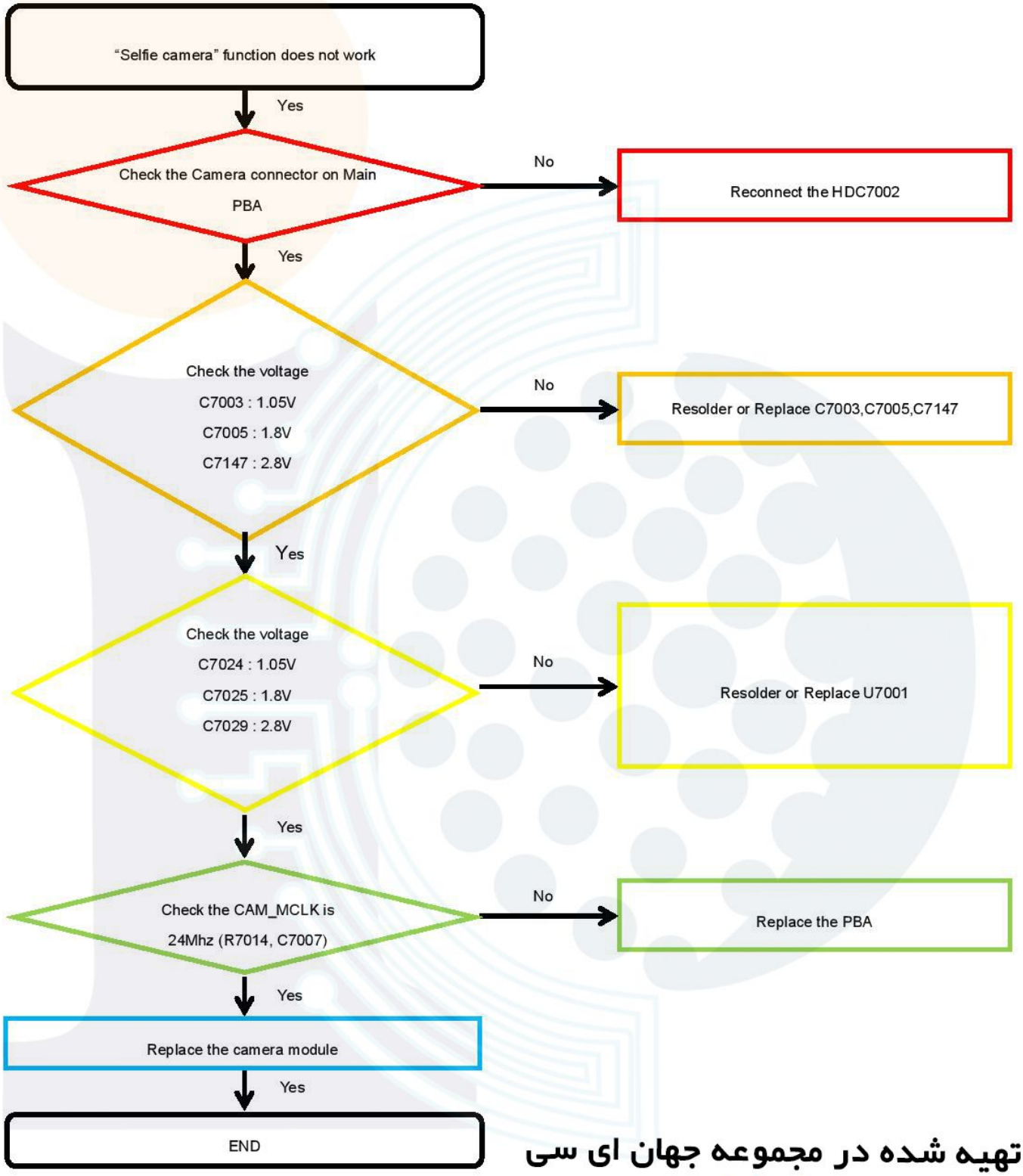
8-4-13. 8M FF Front CAMERA



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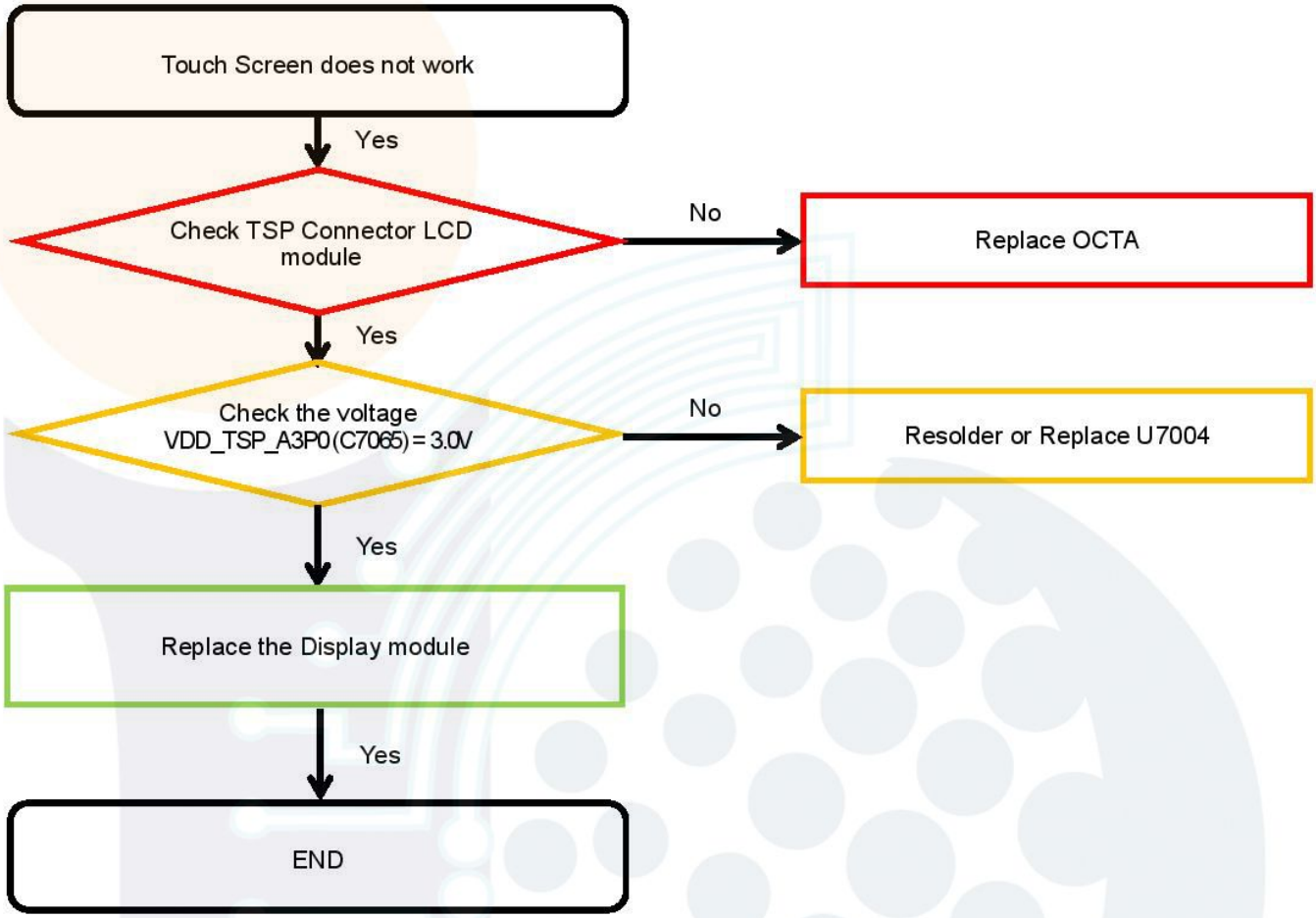
8-4-14. TSP



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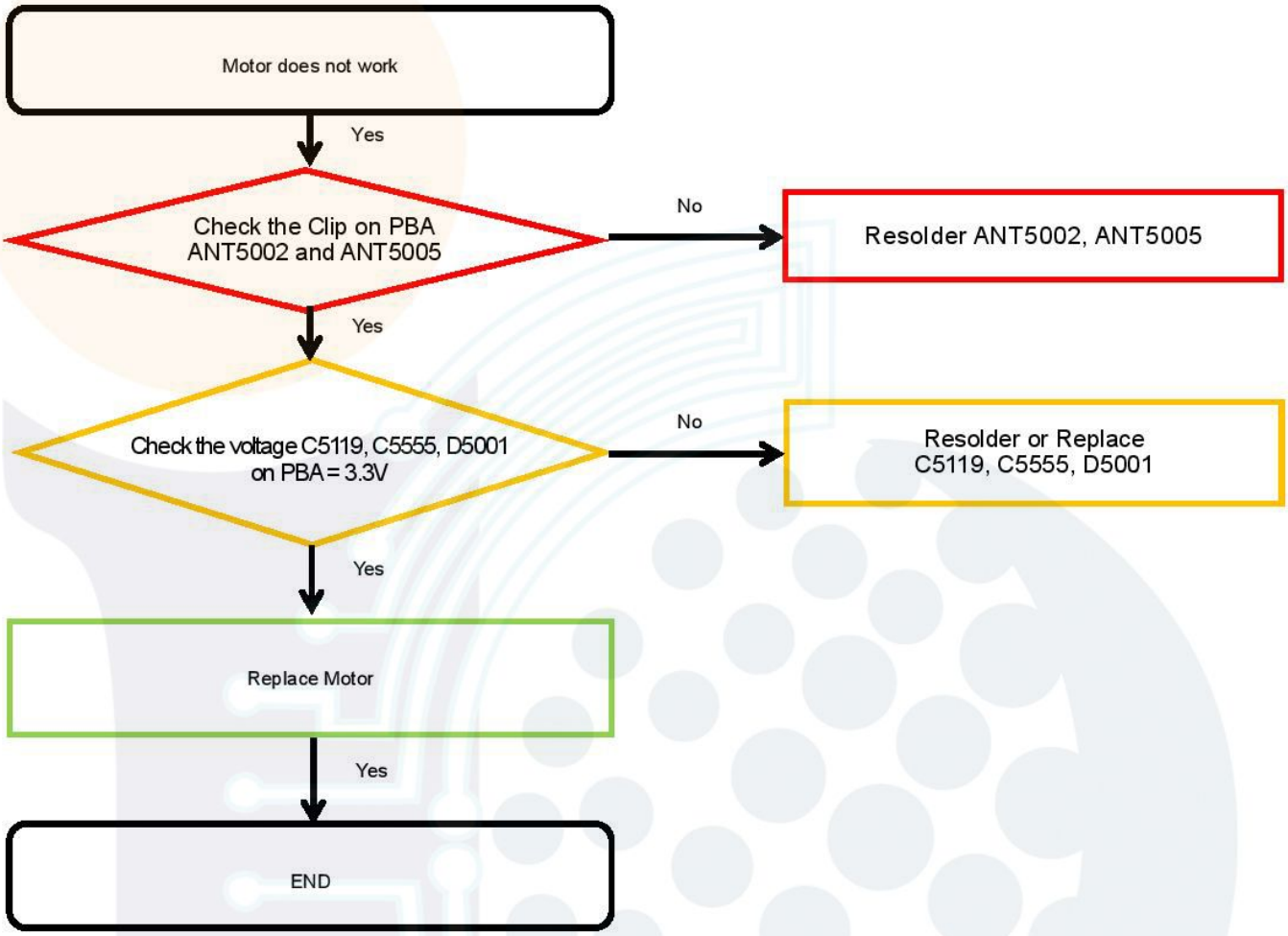
8-4-15. Motor



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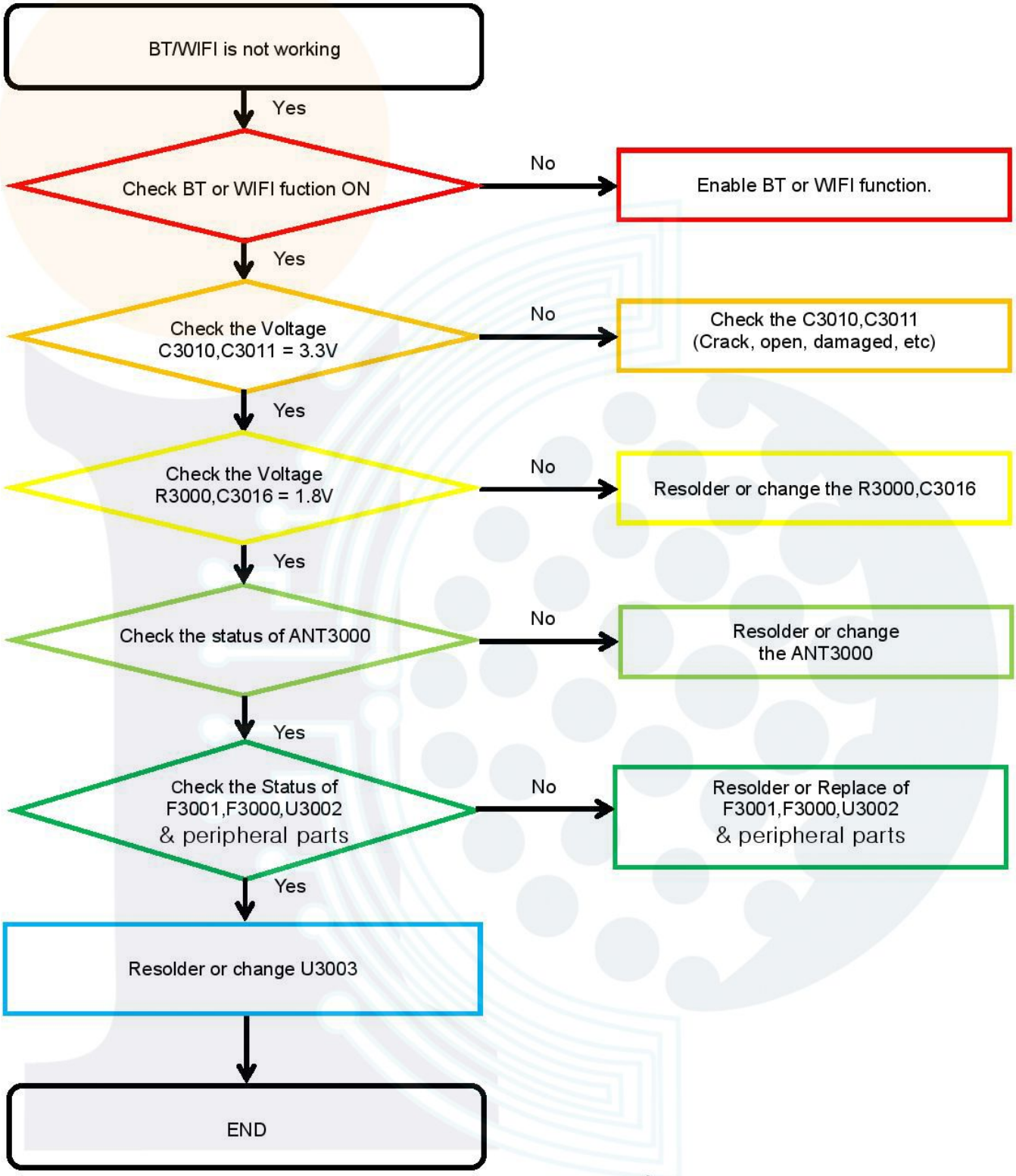
8-4-16. BT/WIFI



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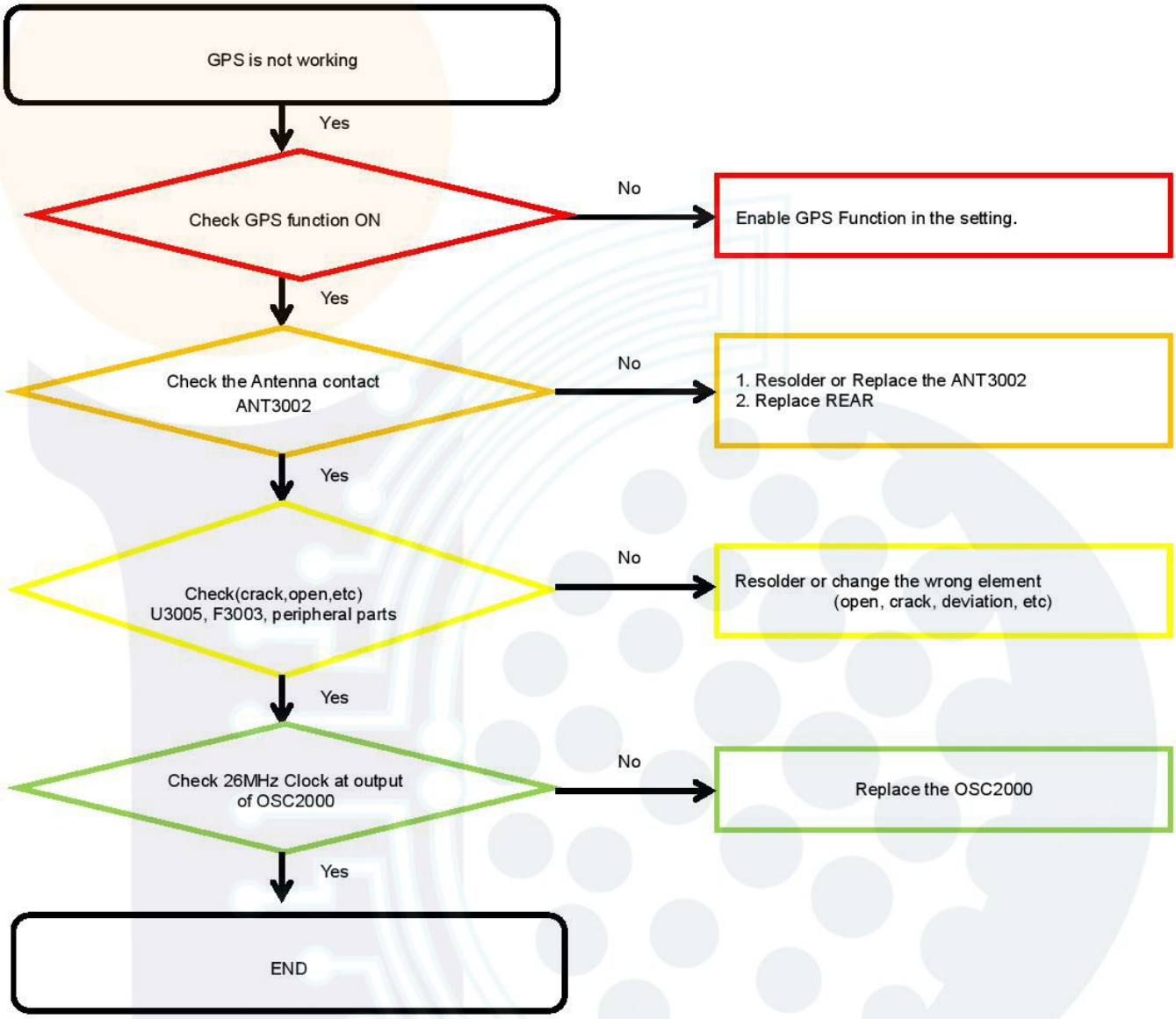
8-4-17. GPS



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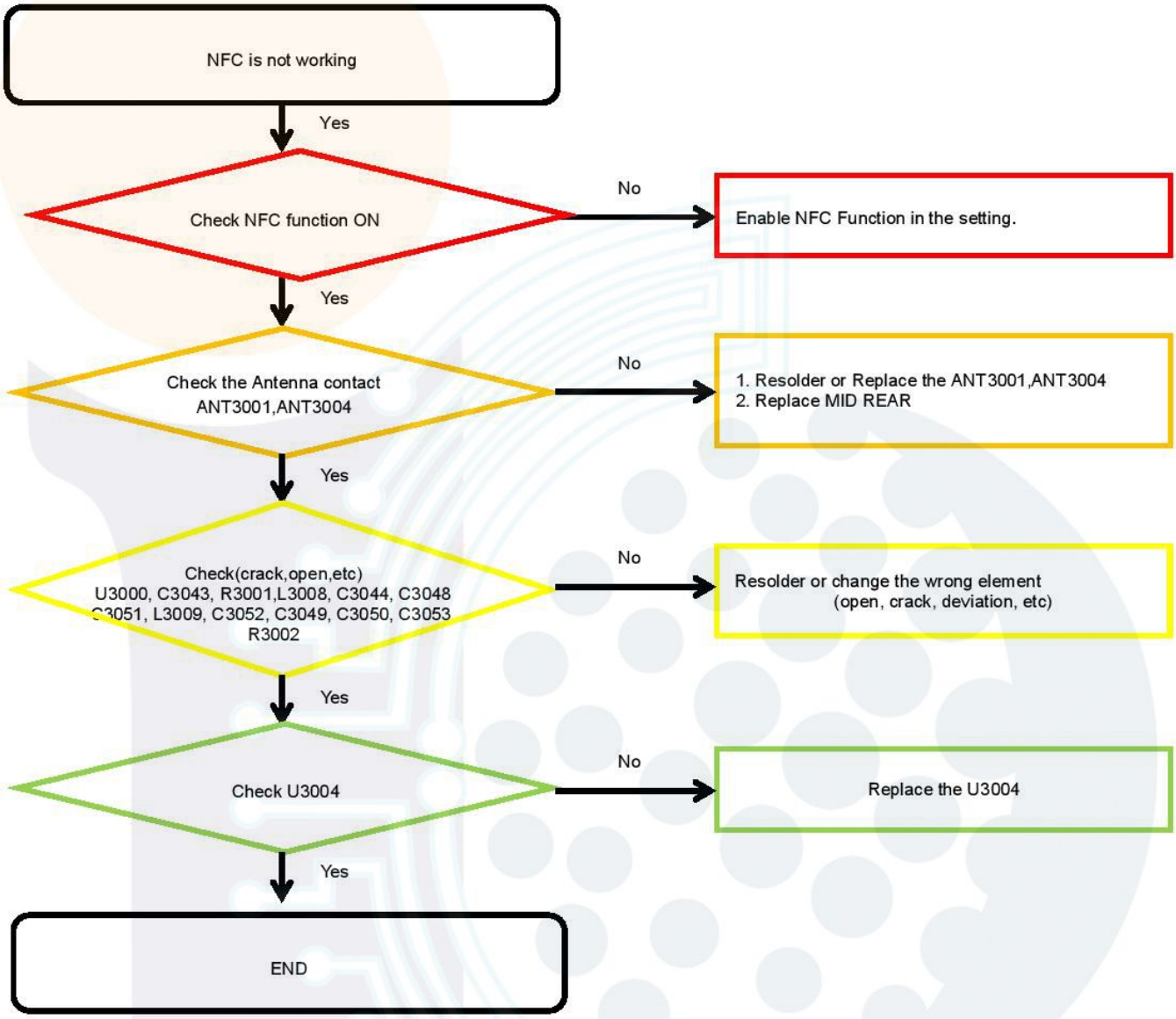
8-4-18. NFC [SM-A205FN/GN]



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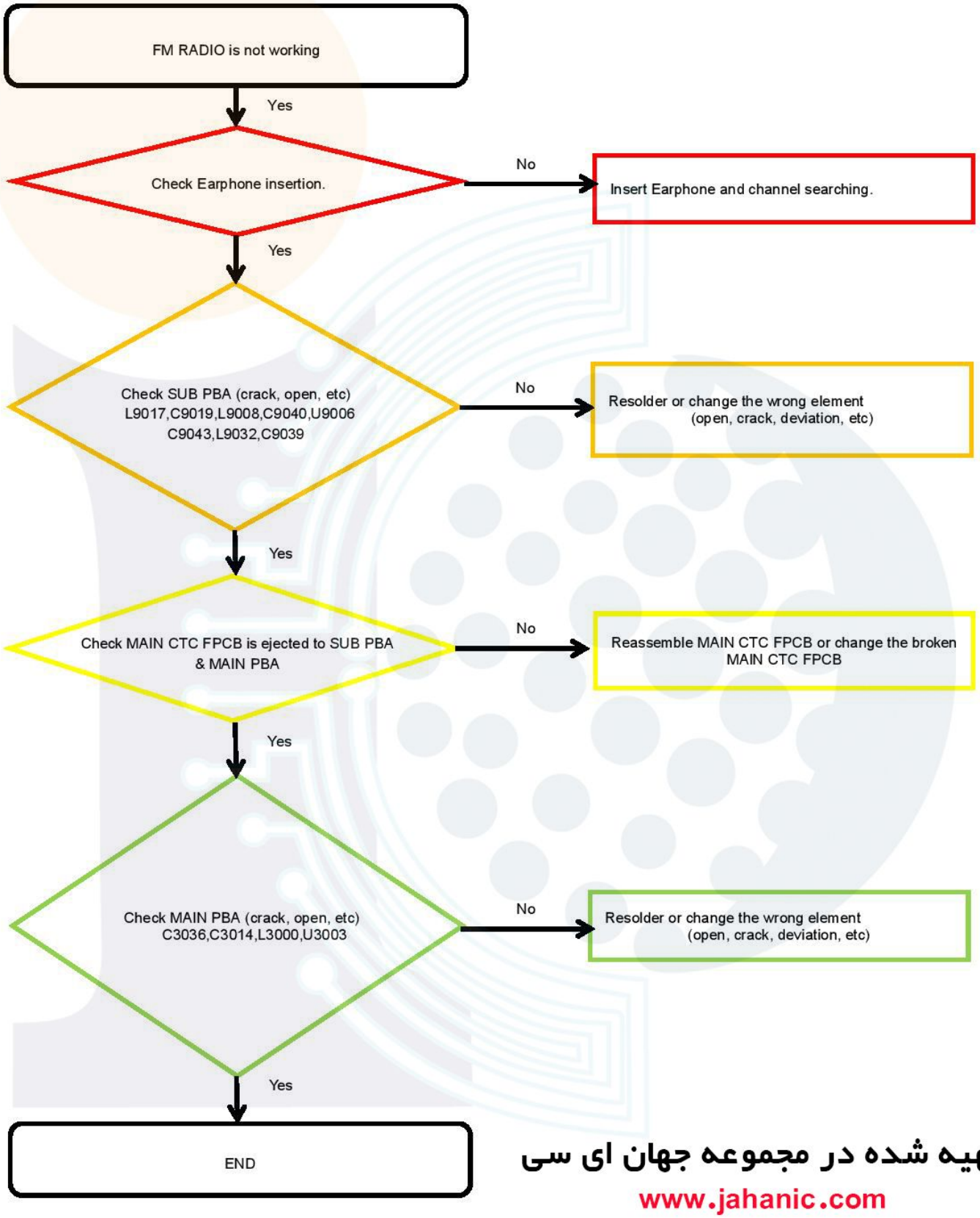
8-4-19. FM RADIO



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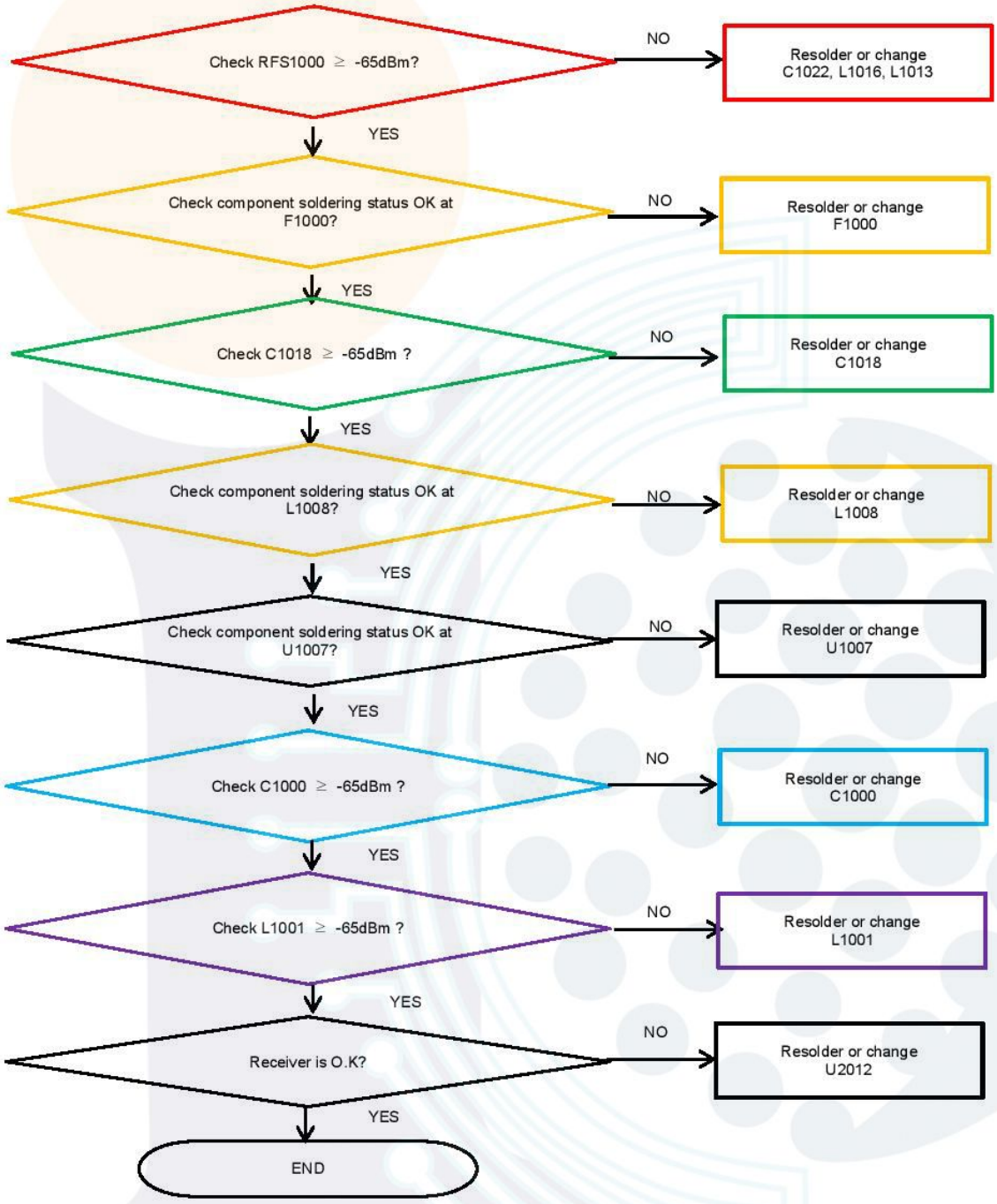
8-4-20. LTE B1, WCDMA B1 Rx



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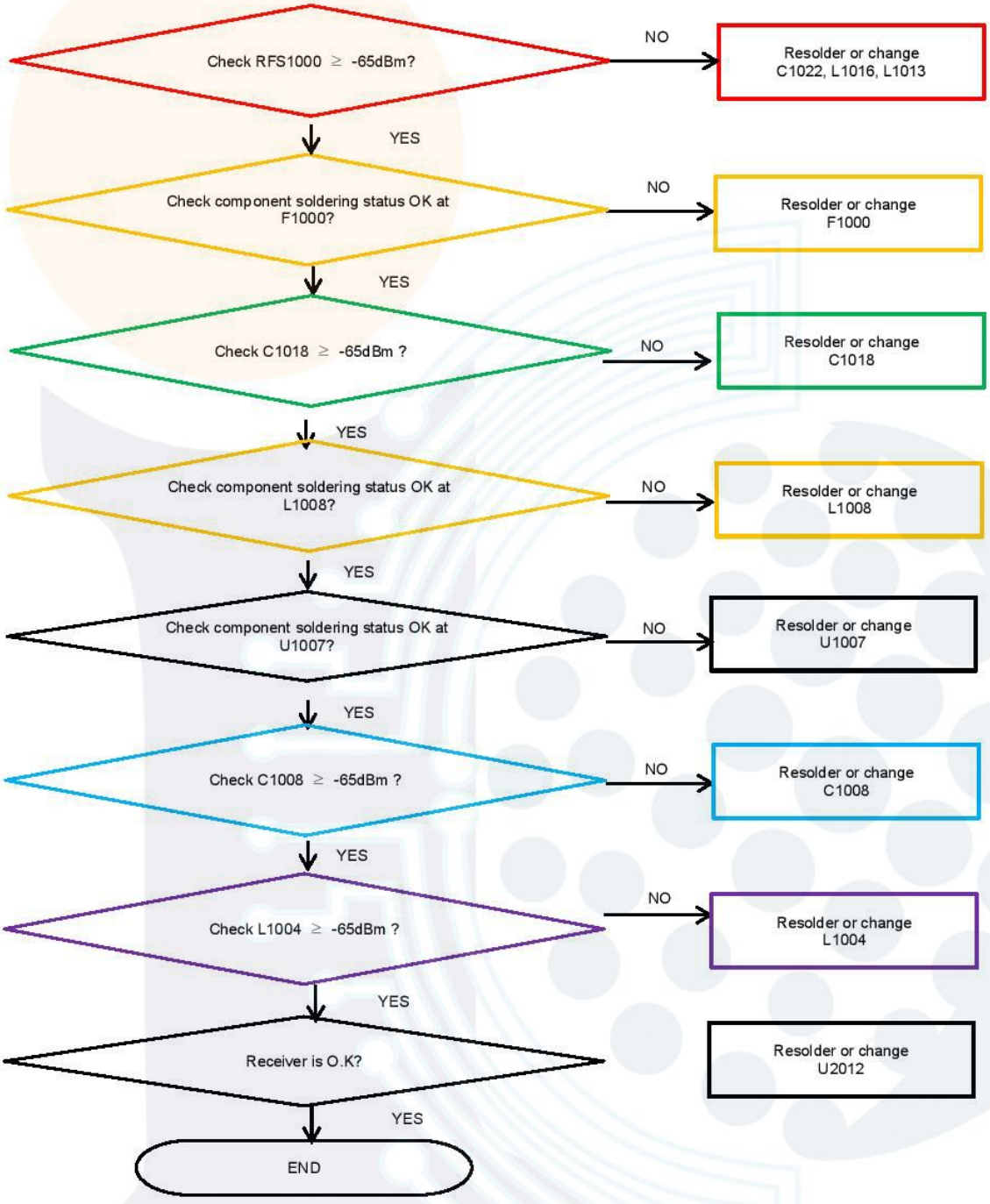
8-4-21. WCDMA B2 / PCS RX, LTEB2 [SM-A205G/GN]



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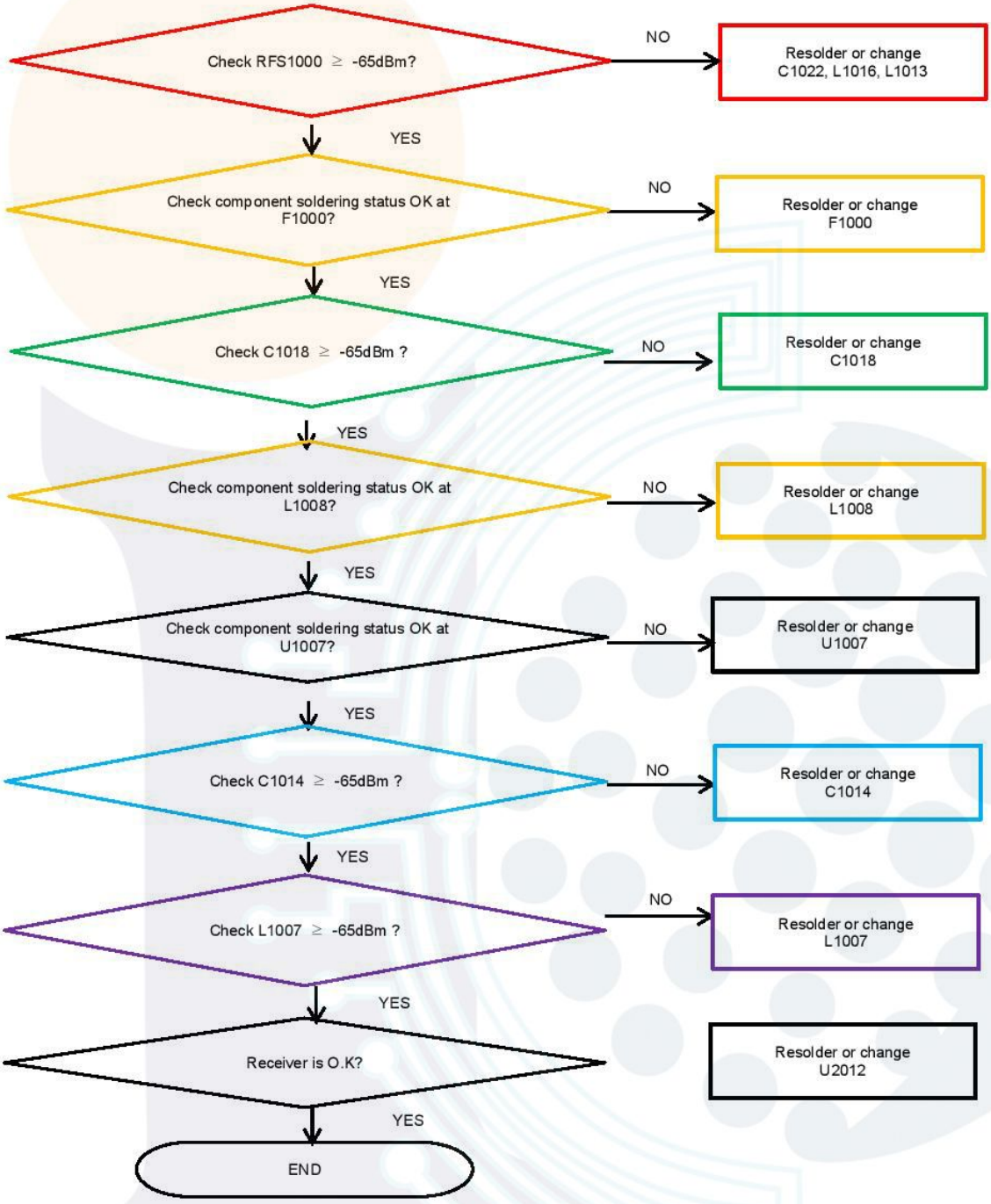
8-4-22. LTE B3 / DCS RX



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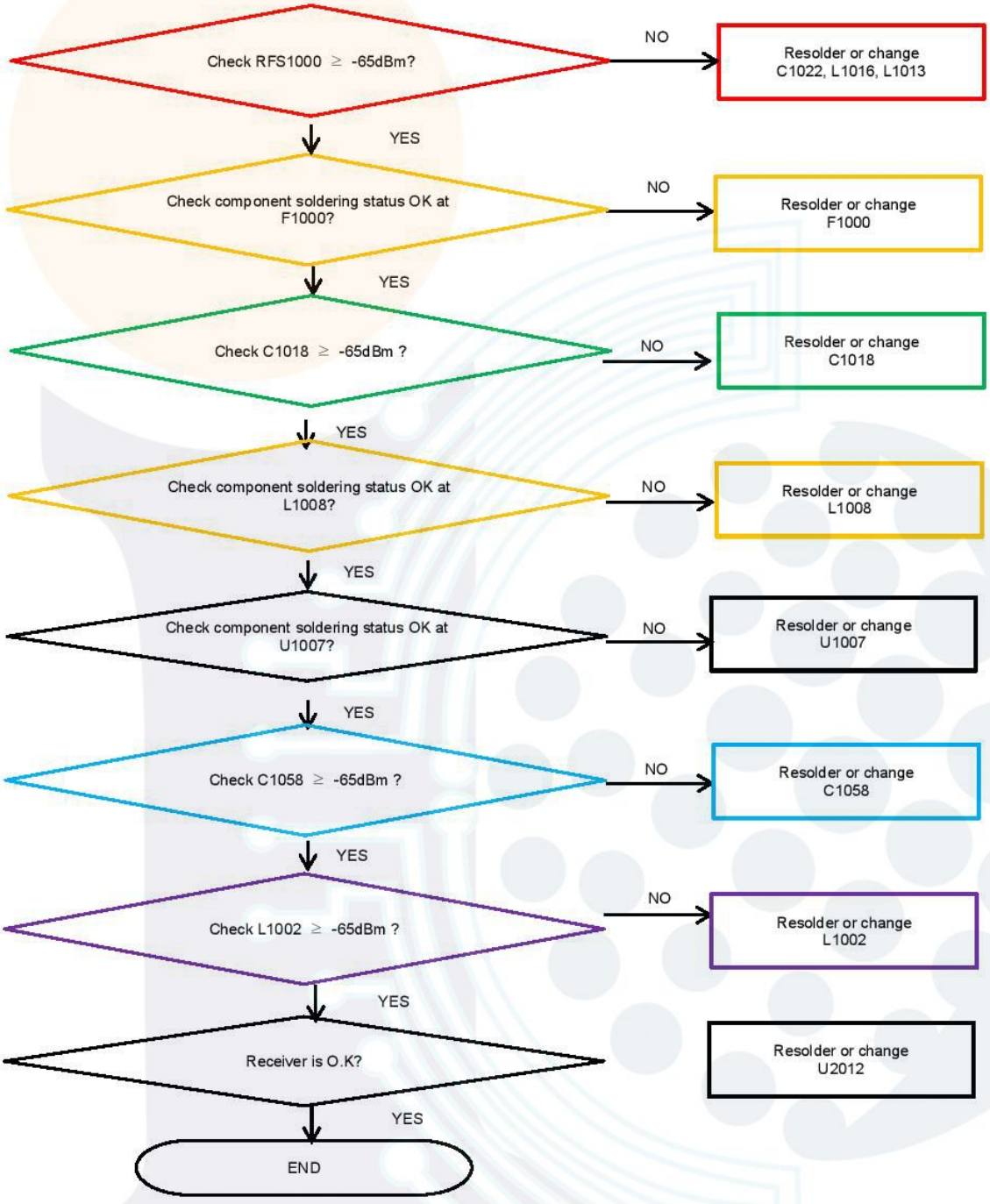
8-4-23. LTE B4(B66) / WCDMA B4 RX [SM-A205G/GN]



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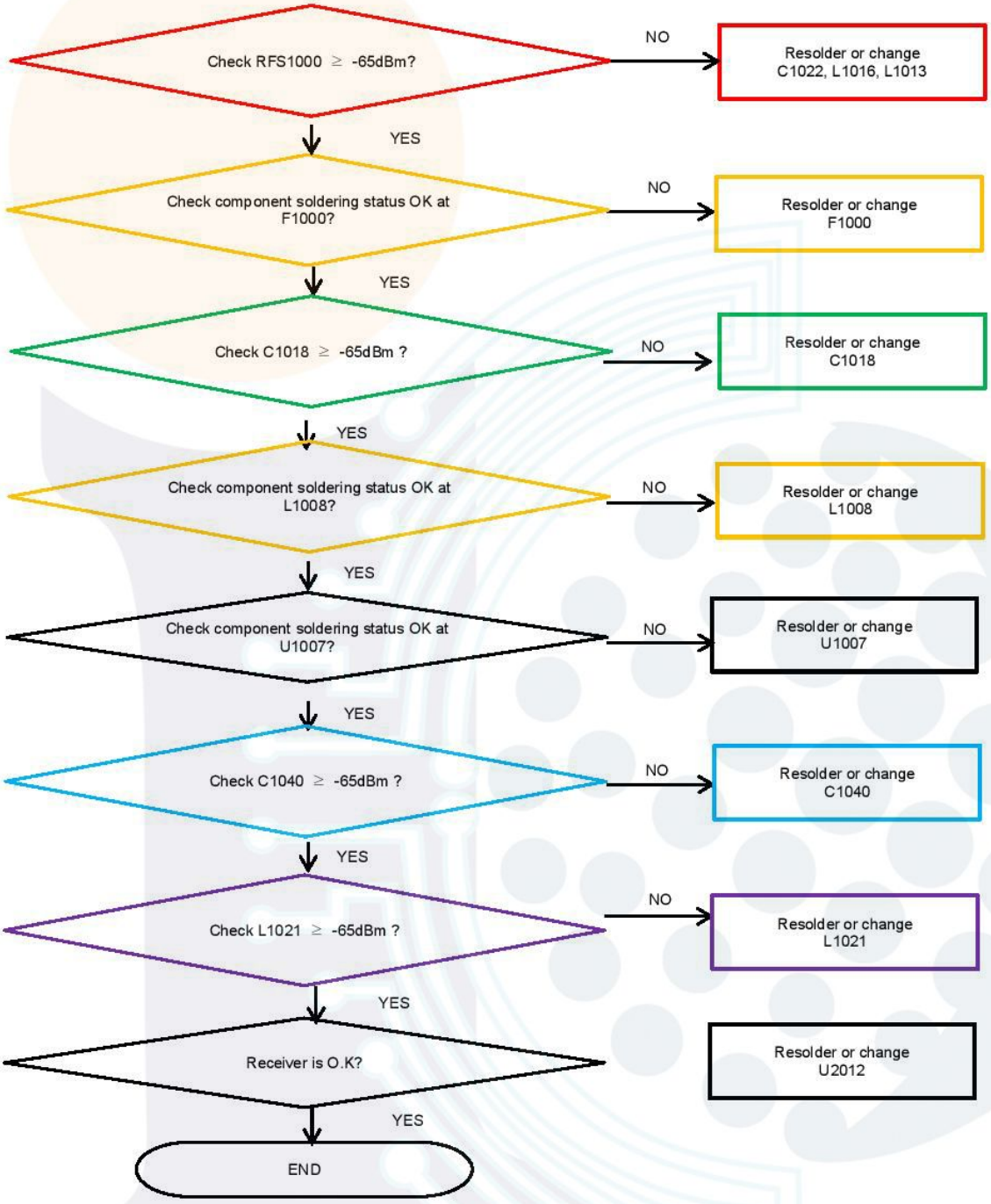
8-4-24. LTE, WCDMA B5 / GSM850 RX



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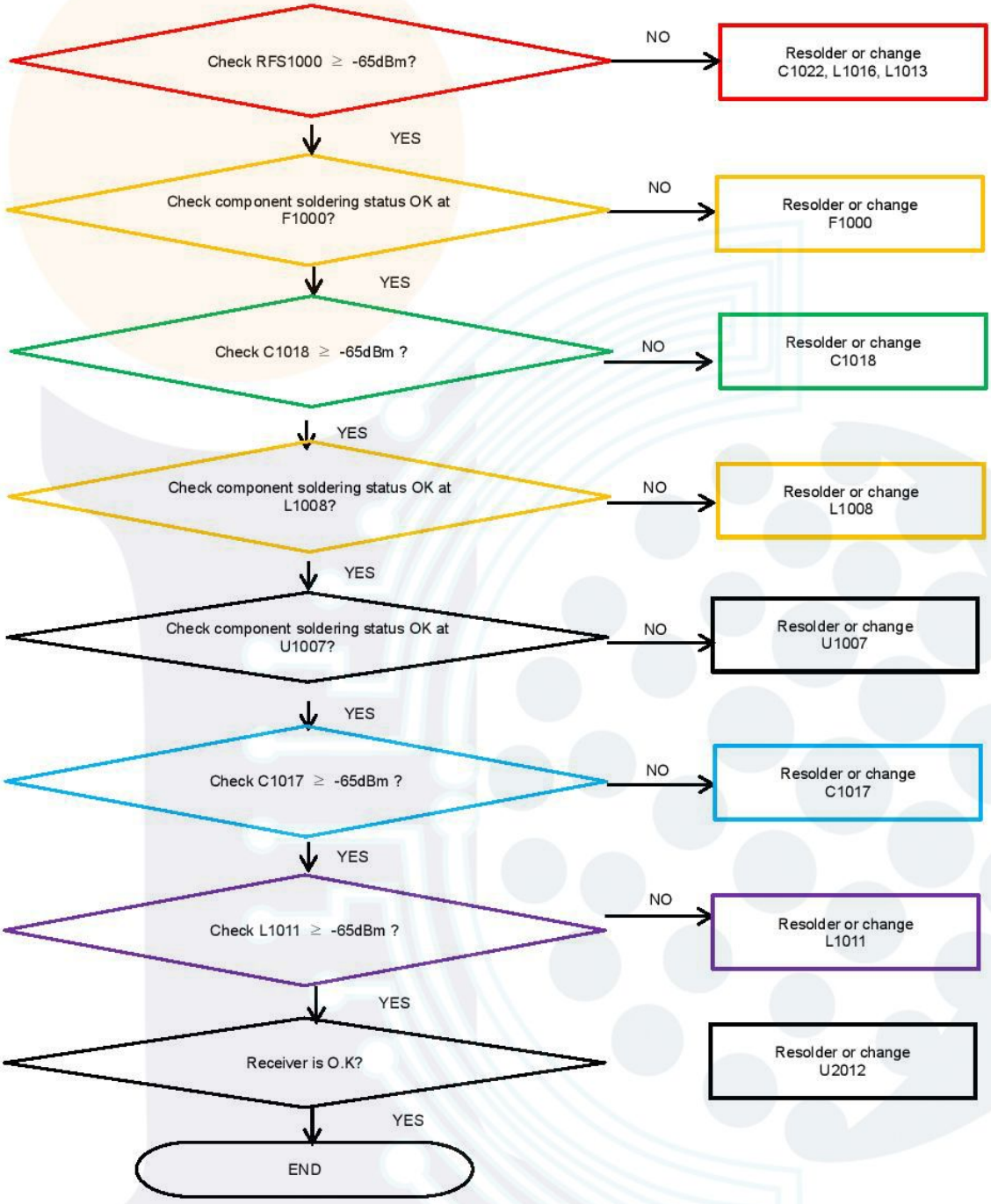
8-4-25. LTE B8, WCDMA B8 / EGSM RX



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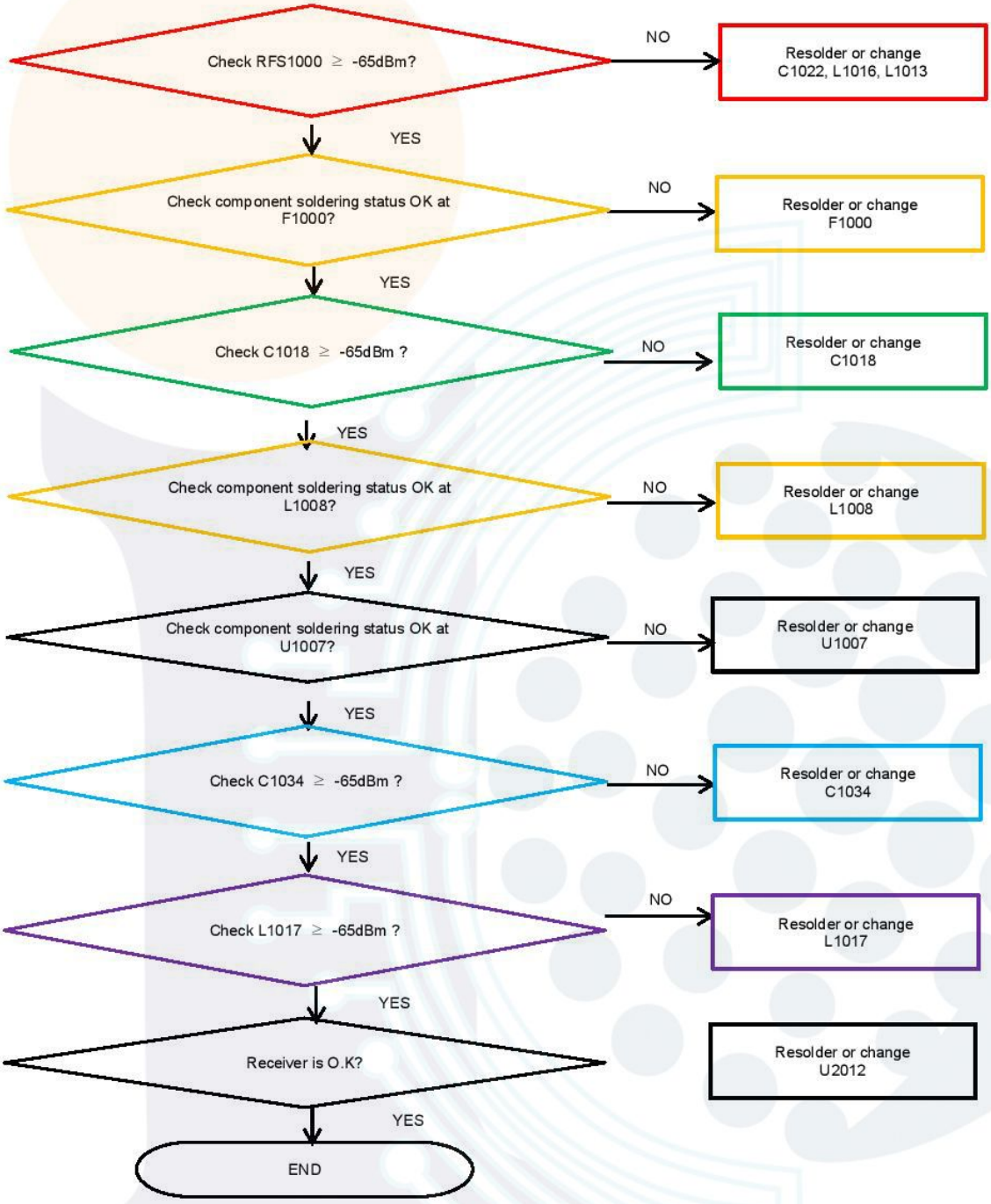
8-4-26. LTE B20 RX



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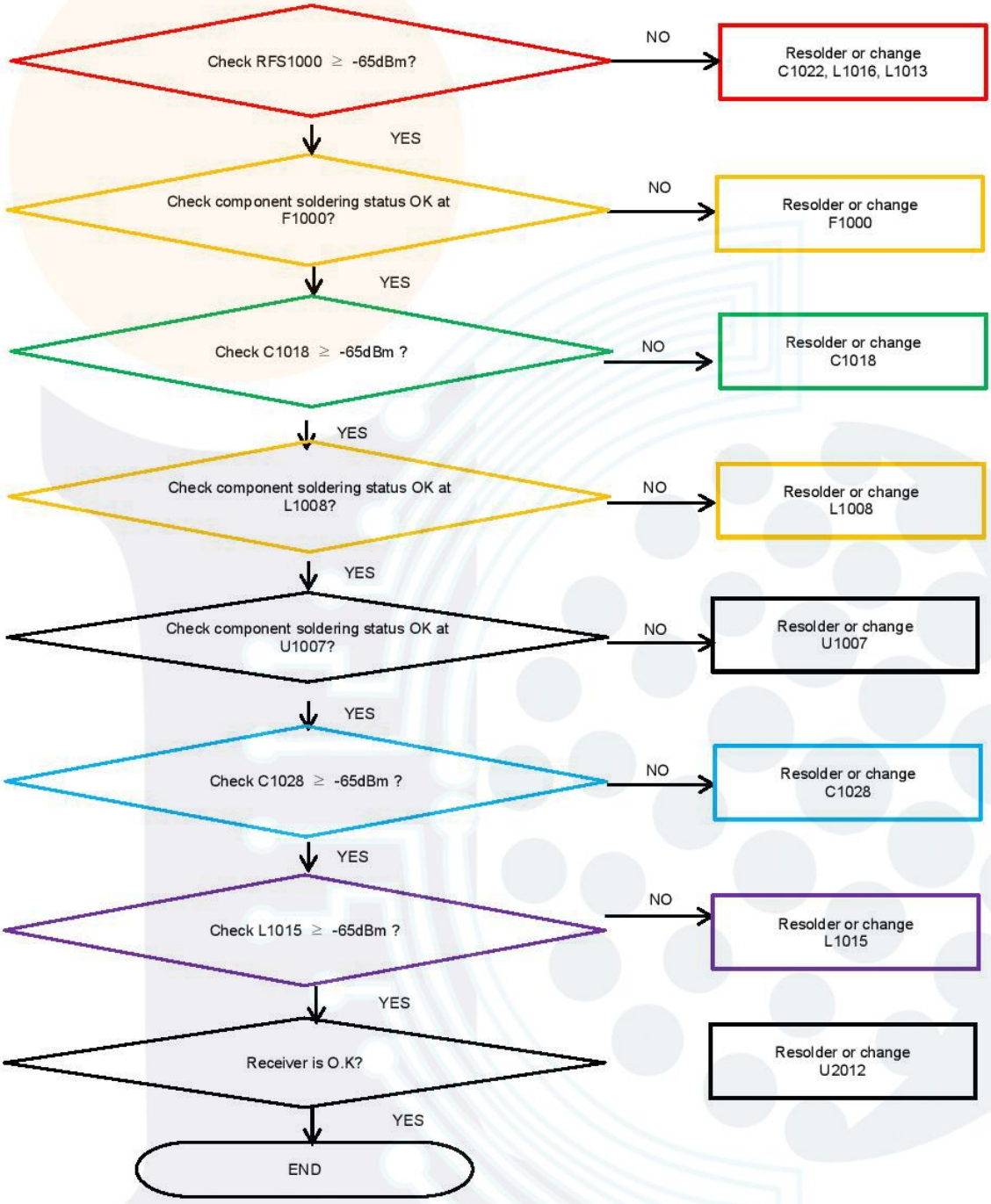
8-4-27. LTE B12, 17 RX



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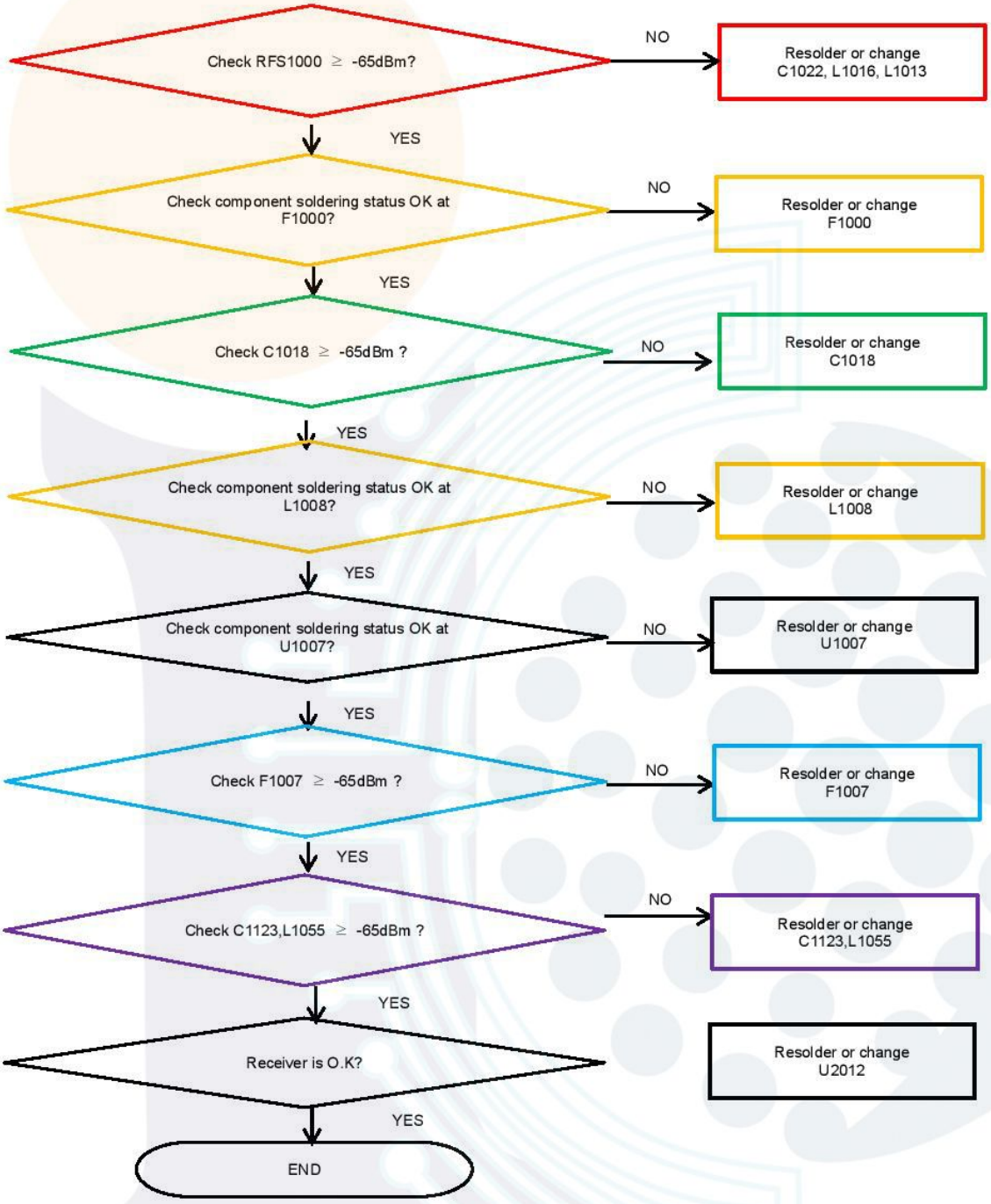
8-4-28. LTE B13 RX [SM-A205G/GN]



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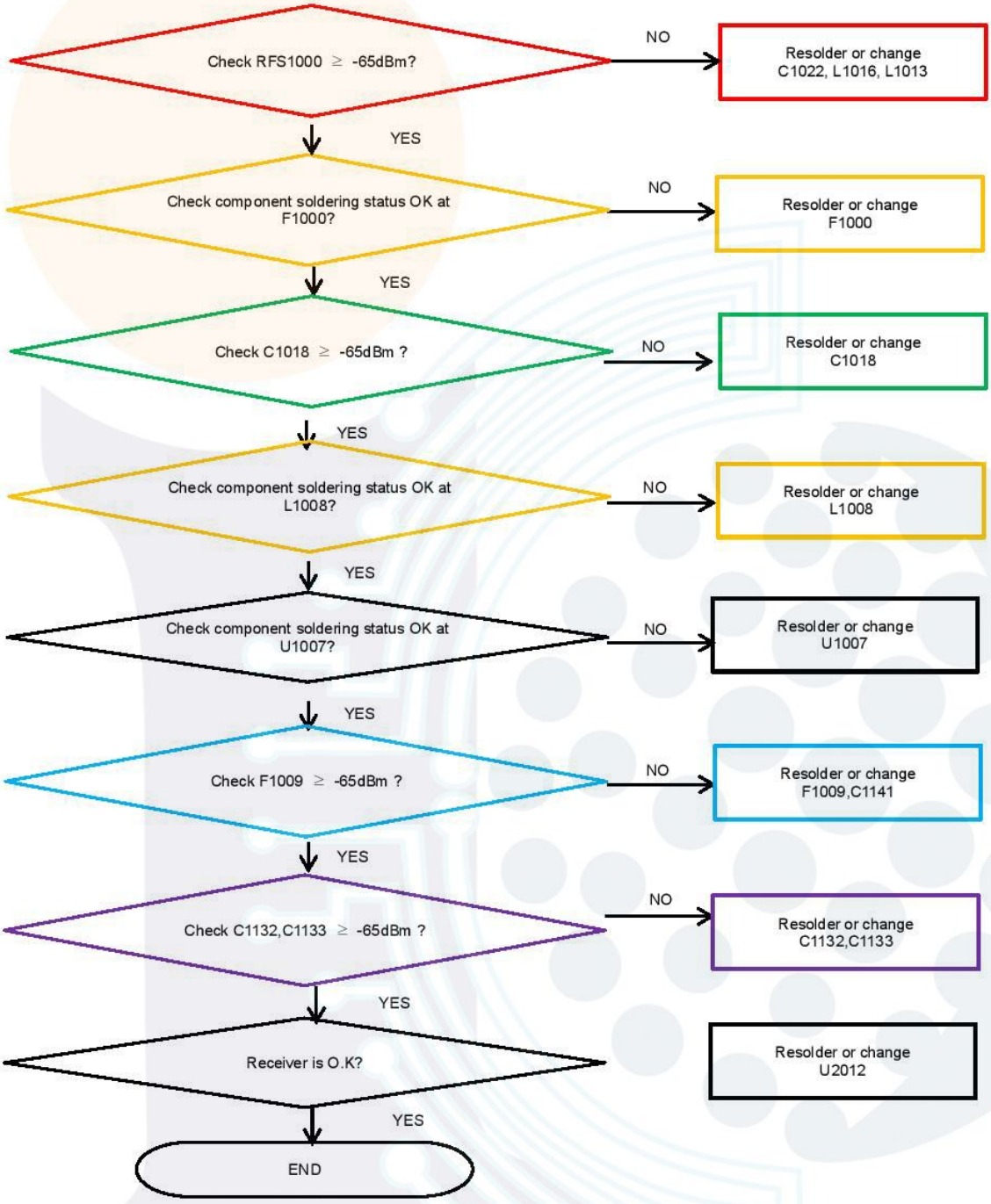
8-4-29. LTE B28 RX [SM-A205G/GN]



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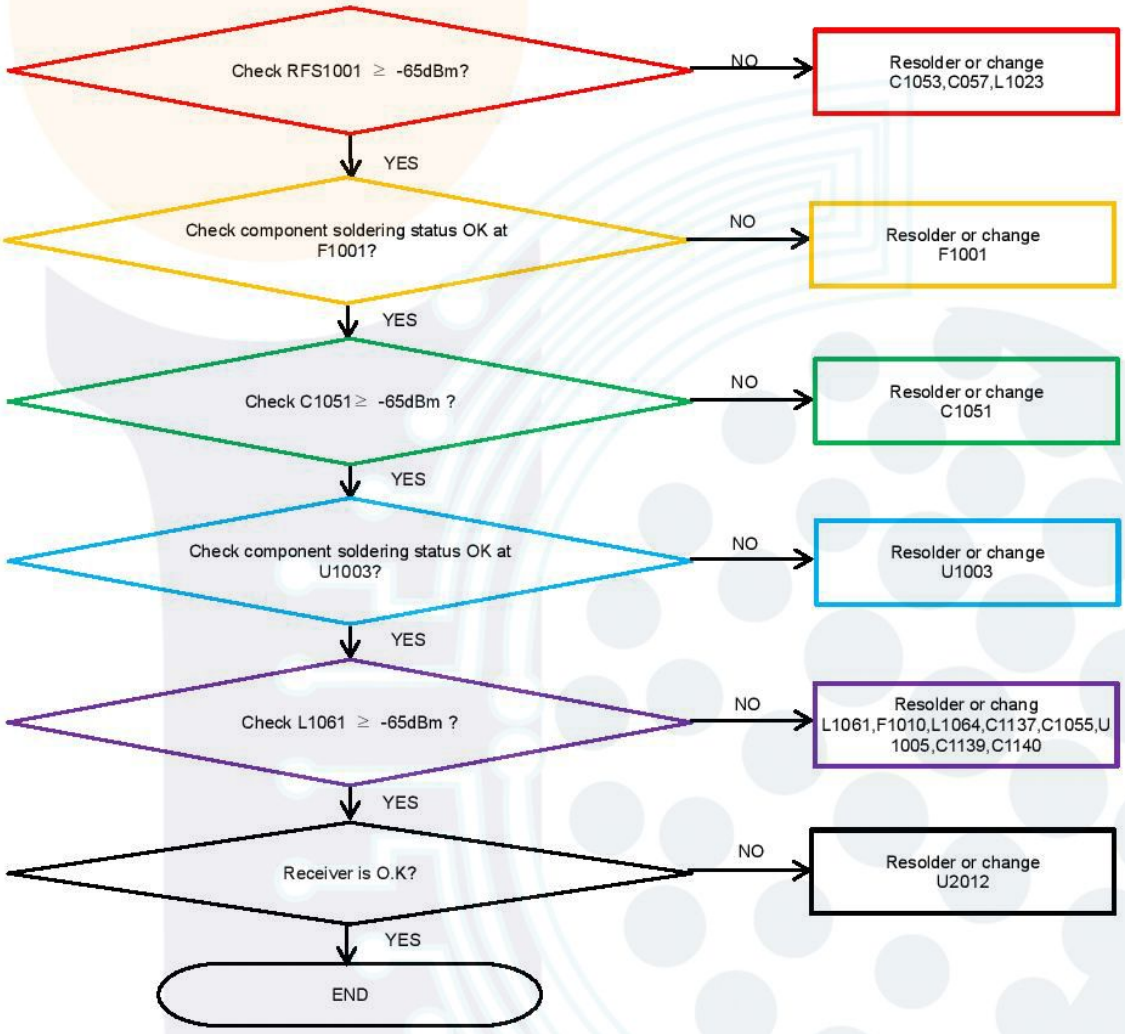
8-4-30. LTE B7 RX



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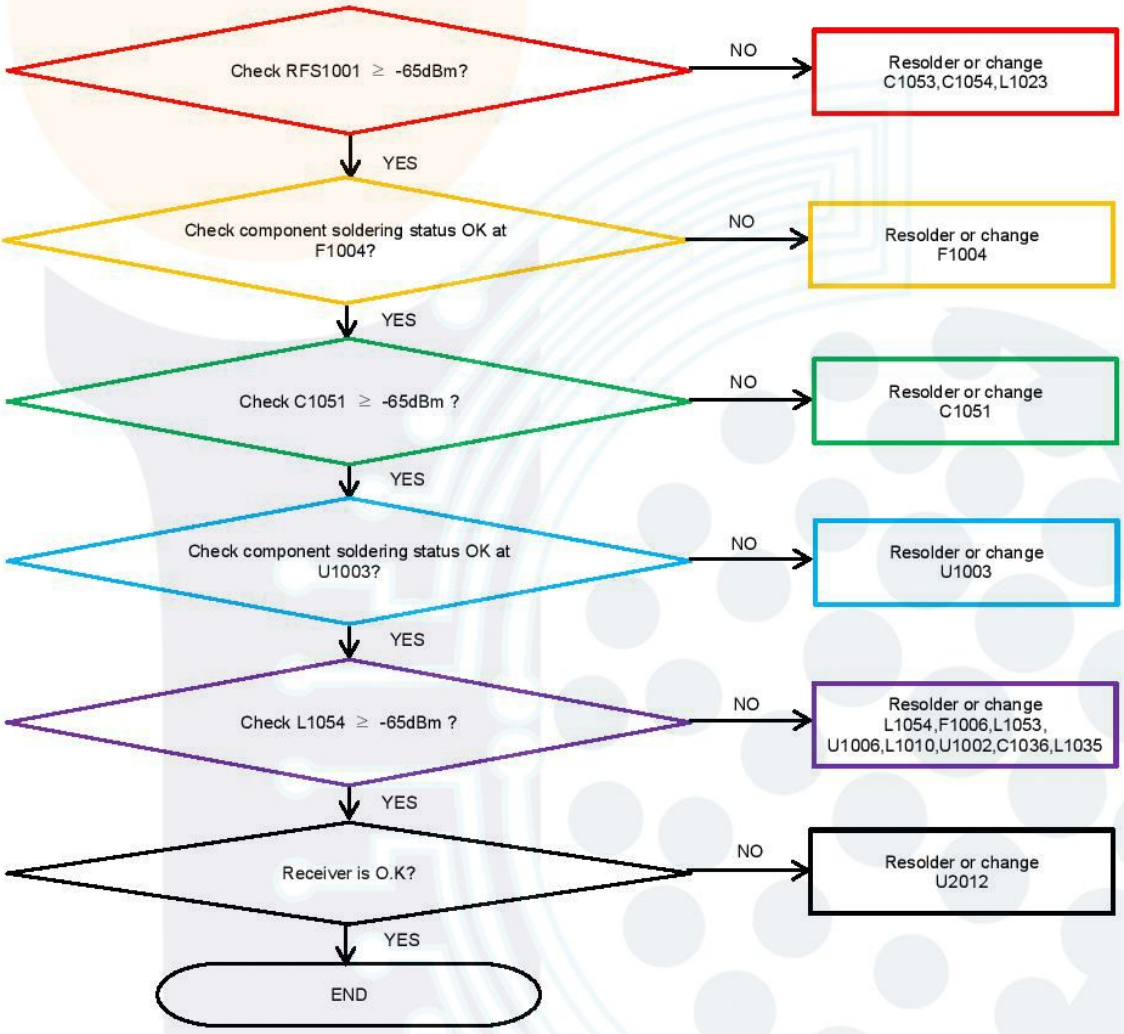
8-4-31. LTE B38_41 RX



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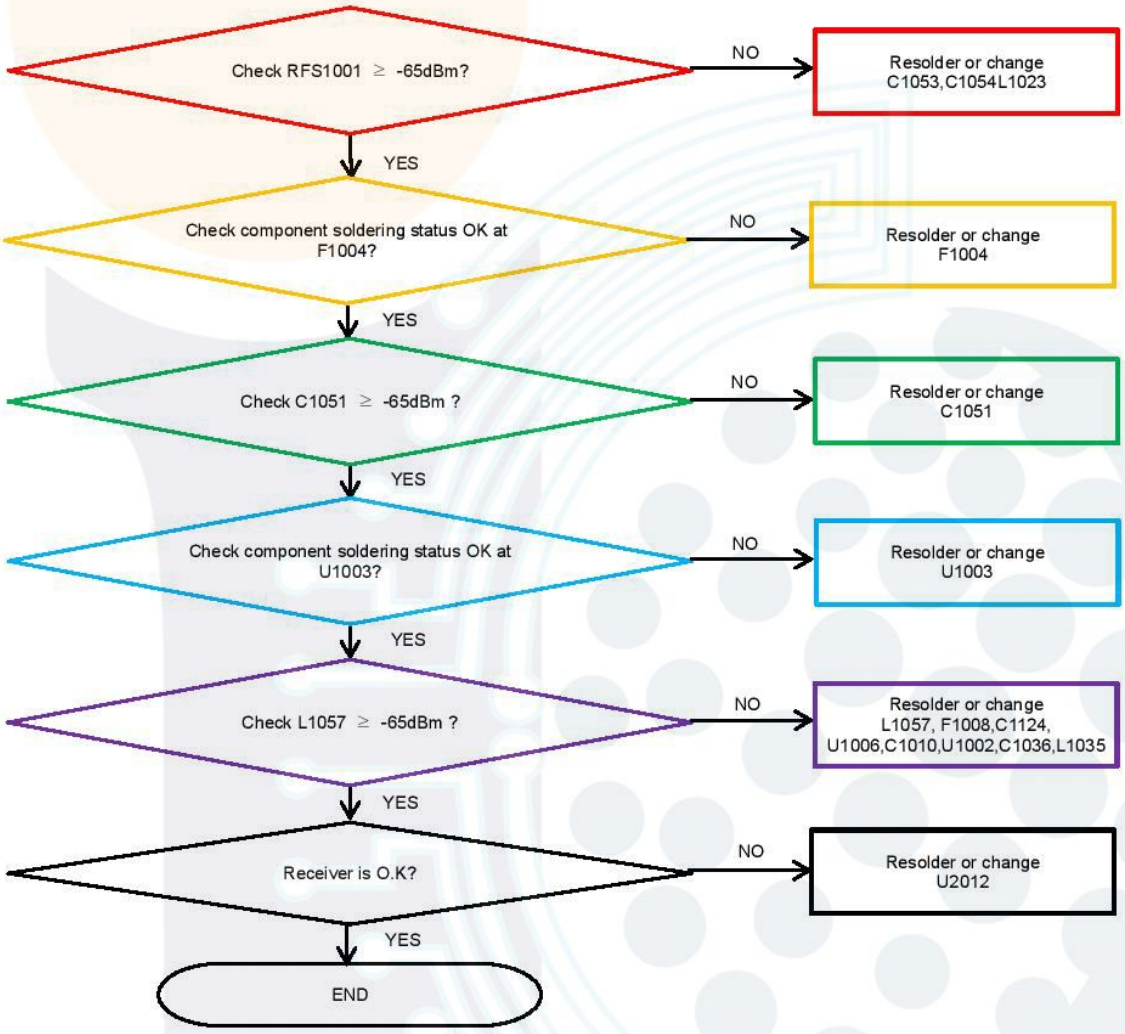
8-4-32. LTE B40 RX



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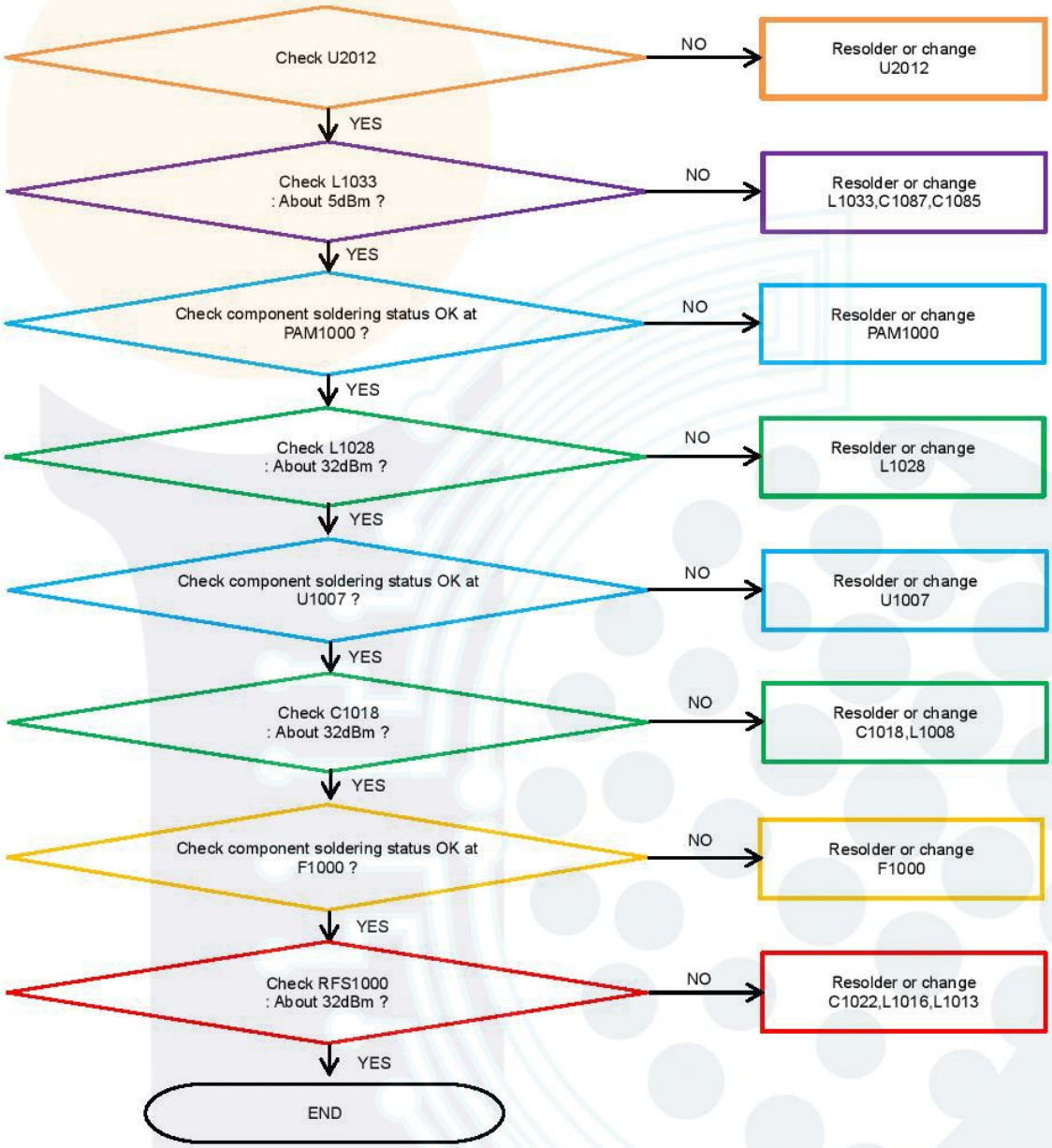
8-4-33. GSM 850 / GSM900 TX



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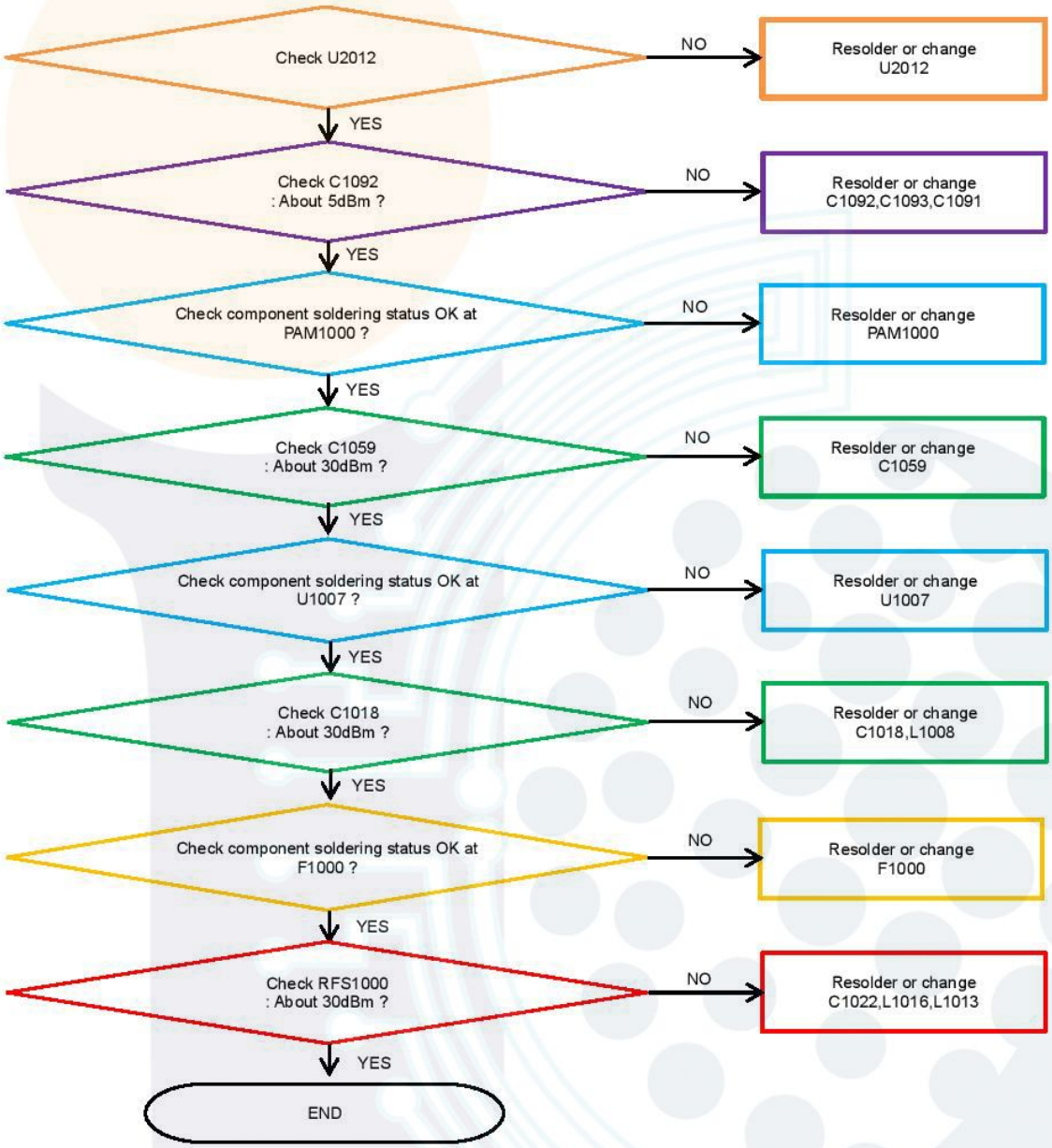
8-4-34. GSM1800/ GSM1900 TX



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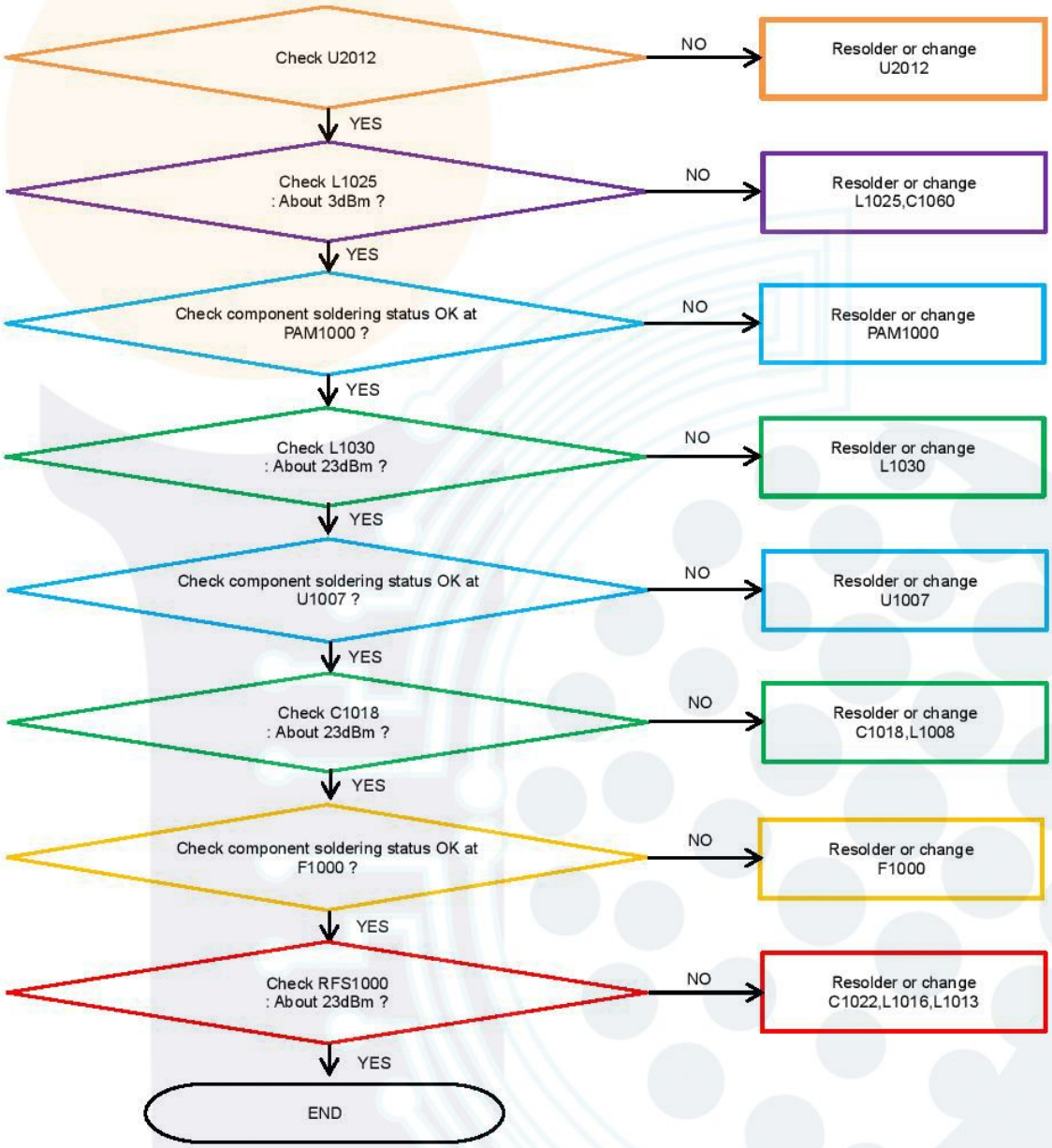
8-4-35. LTE, WCDMA B1 TX



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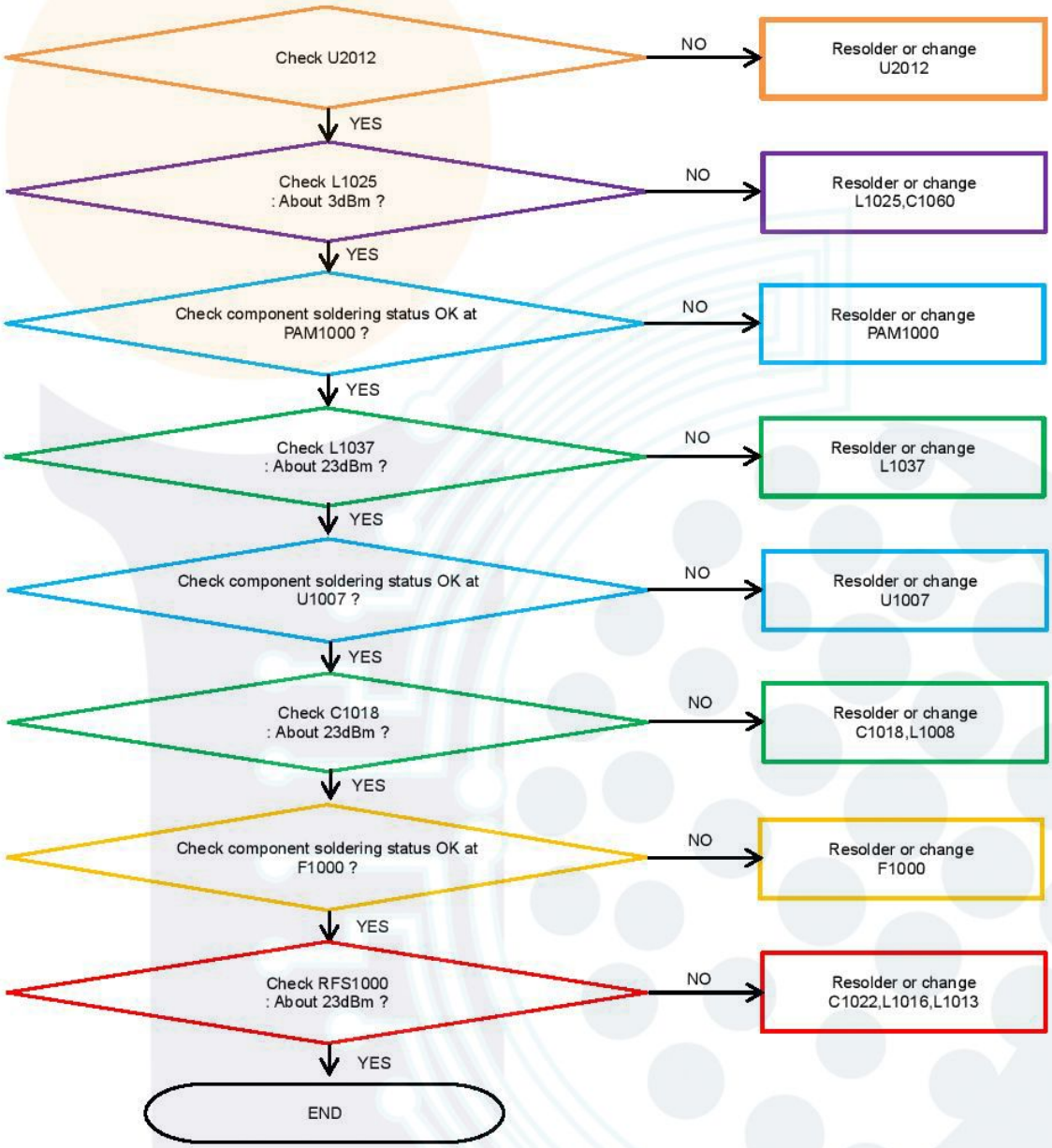
8-4-36. WCDMA B2 TX, LTE B2 [SM-A205G/GN]



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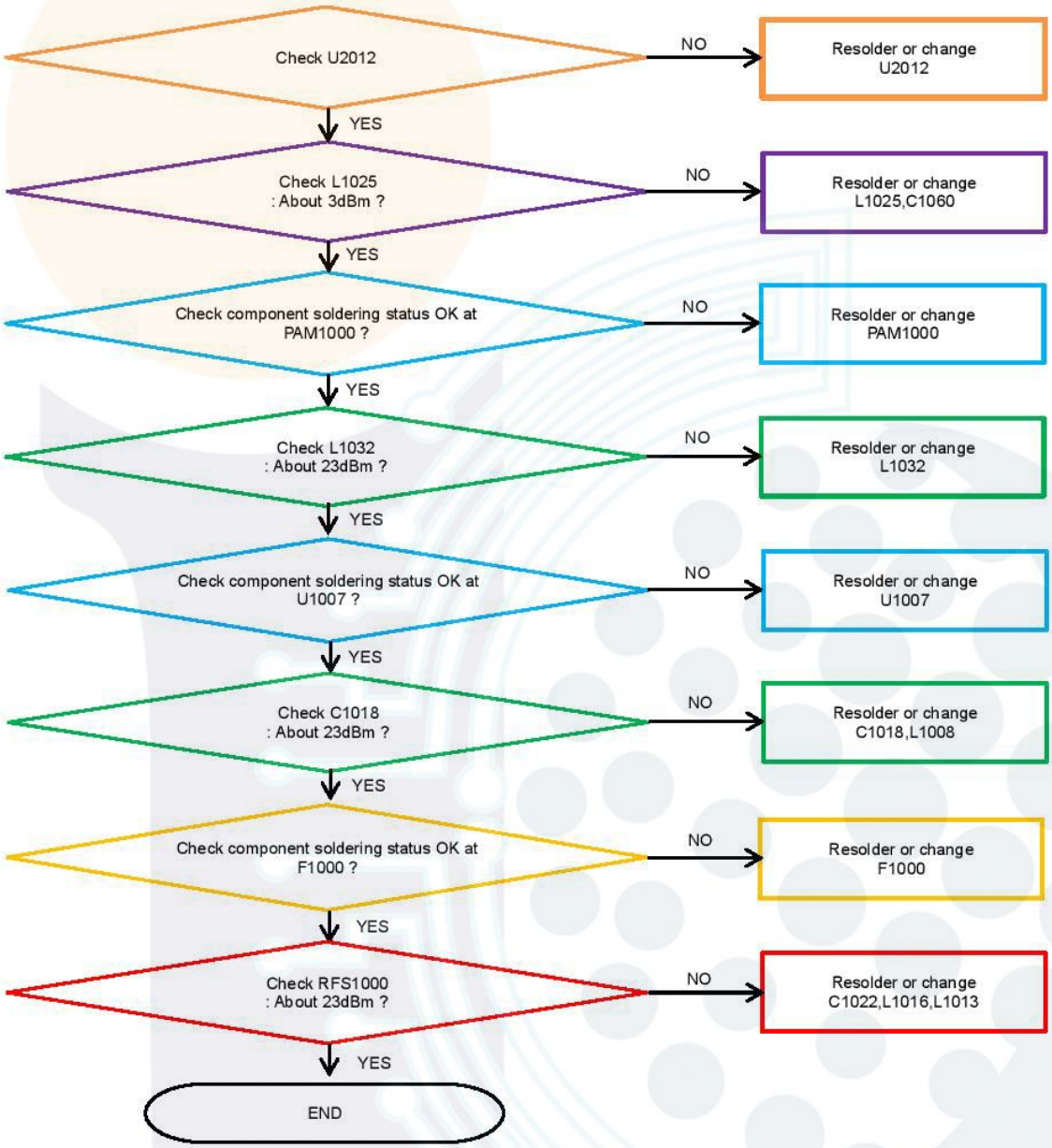
8-4-37. LTE B3 TX



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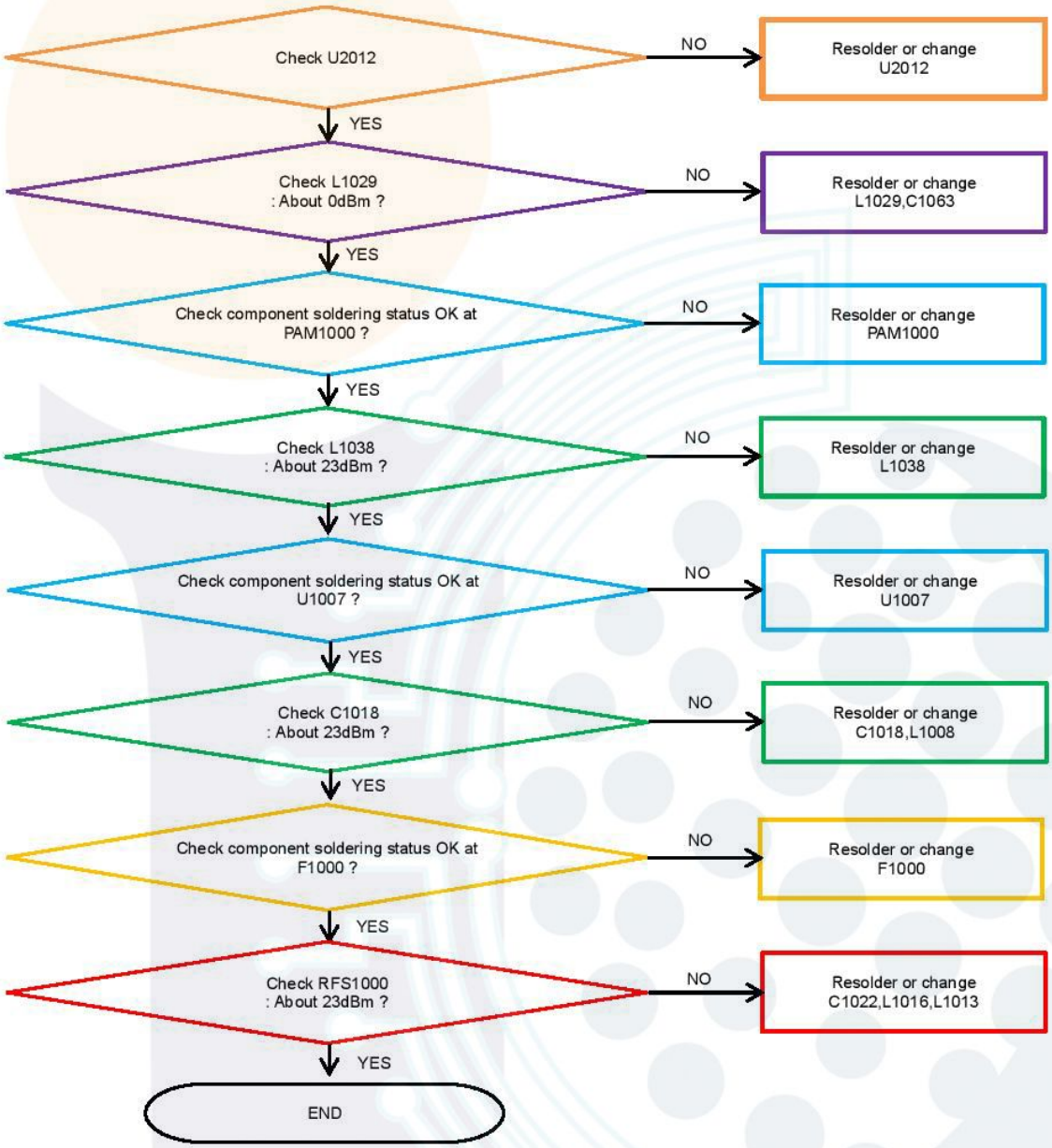
8-4-38. LTE, WCDMA B5 TX



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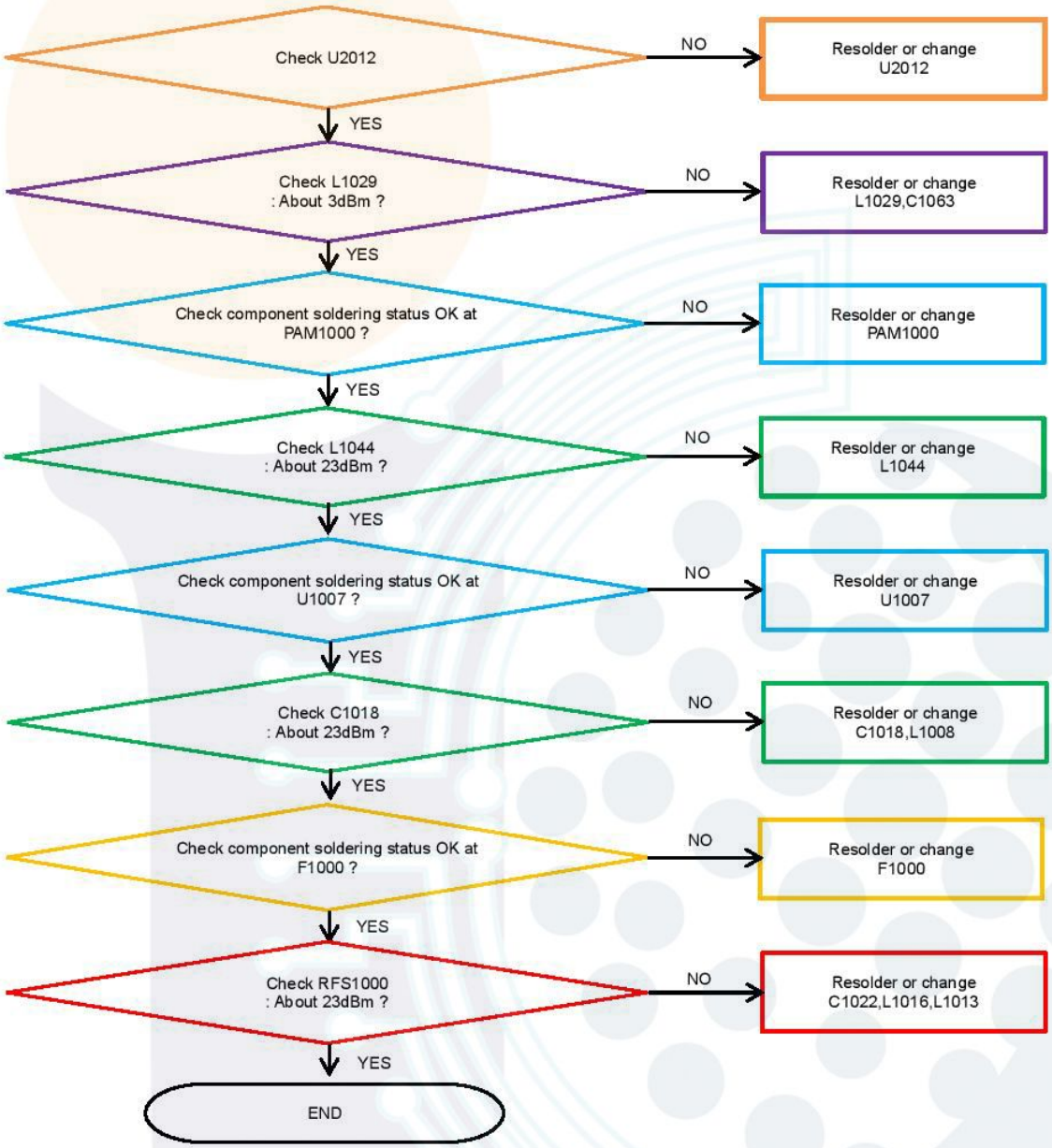
8-4-39. LTE, WCDMA B8 TX



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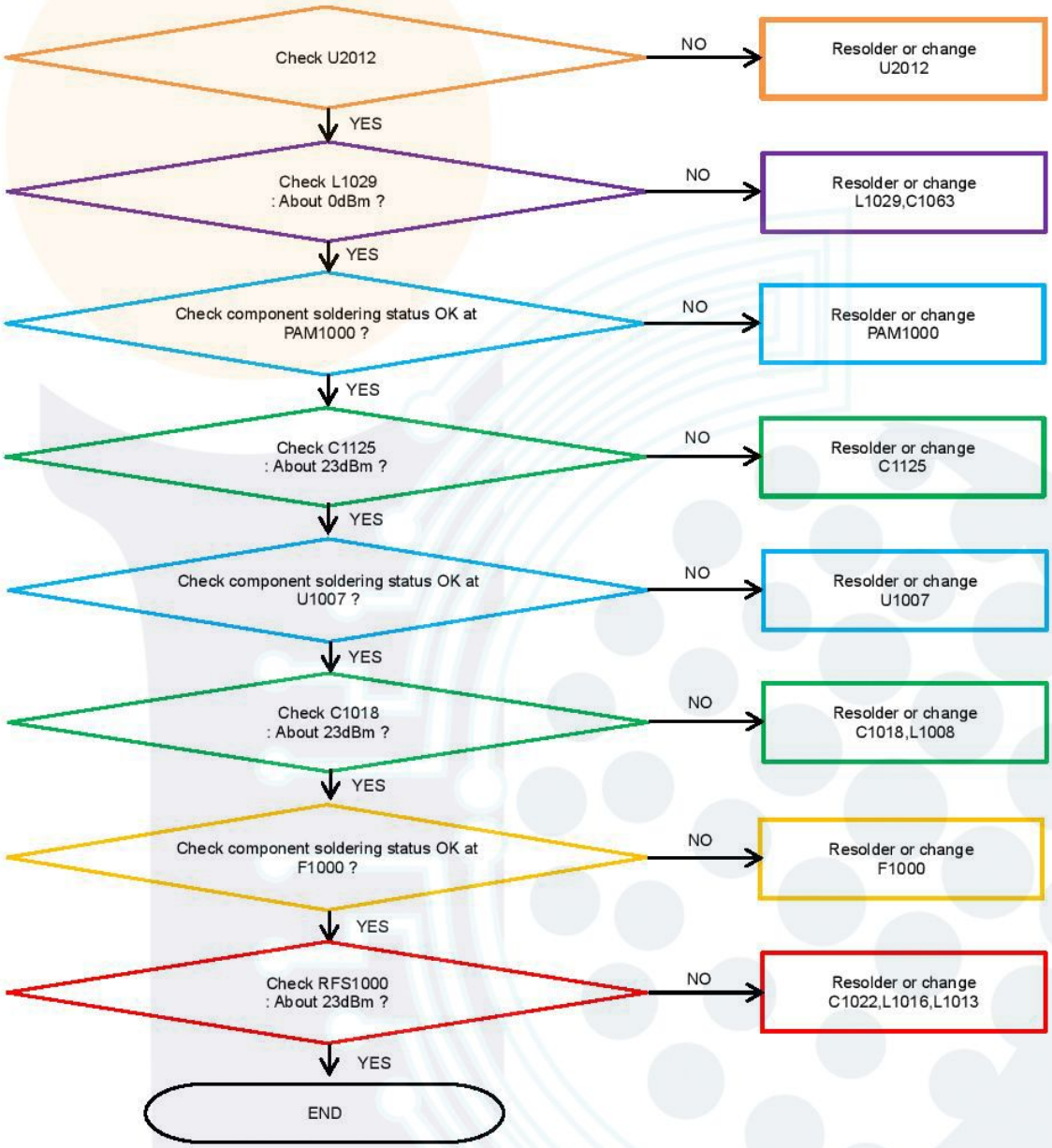
8-4-40. LTE B20 TX



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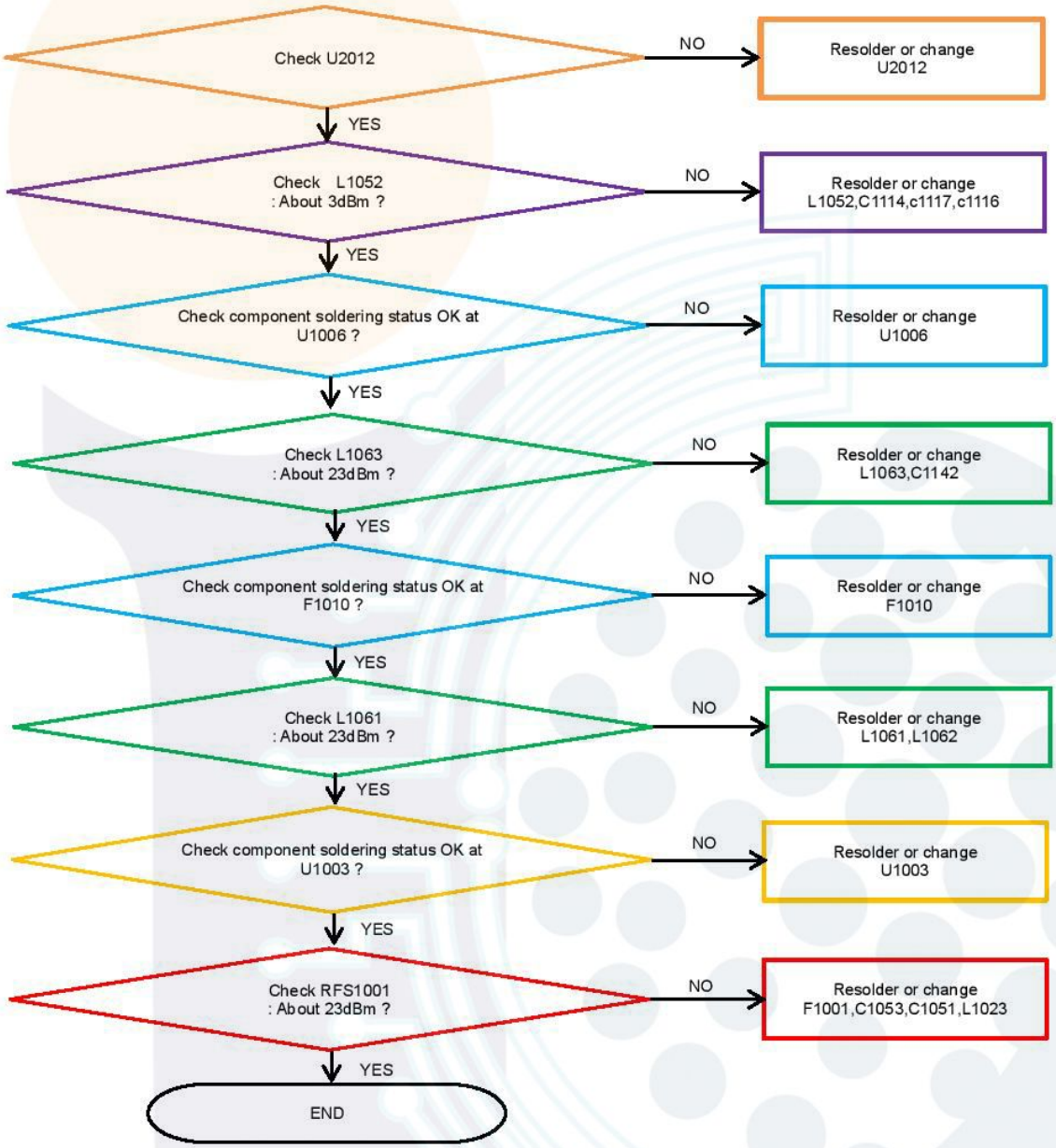
8-4-41. LTE B7 TX



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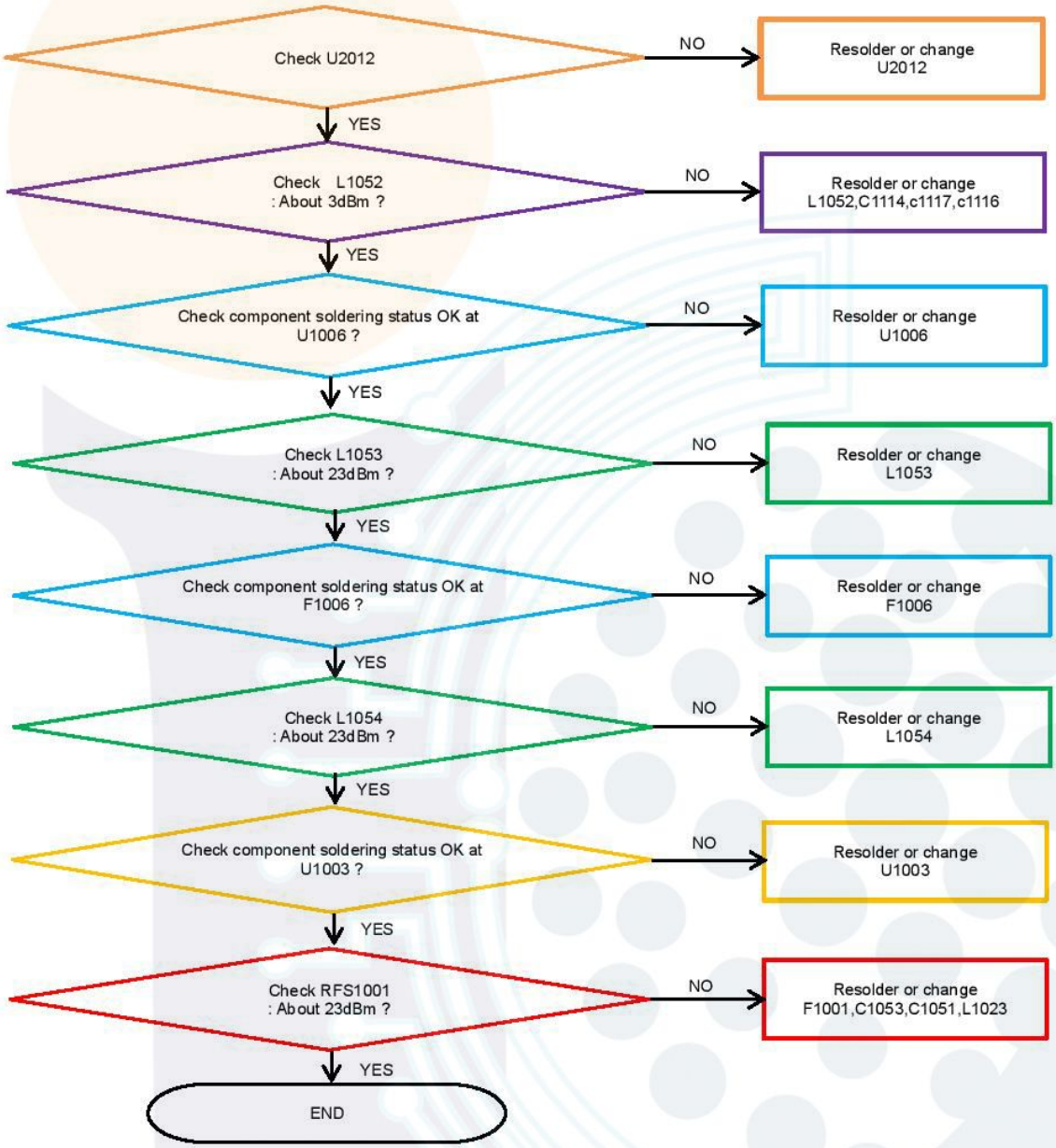
8-4-42. LTE B38, 41 TX



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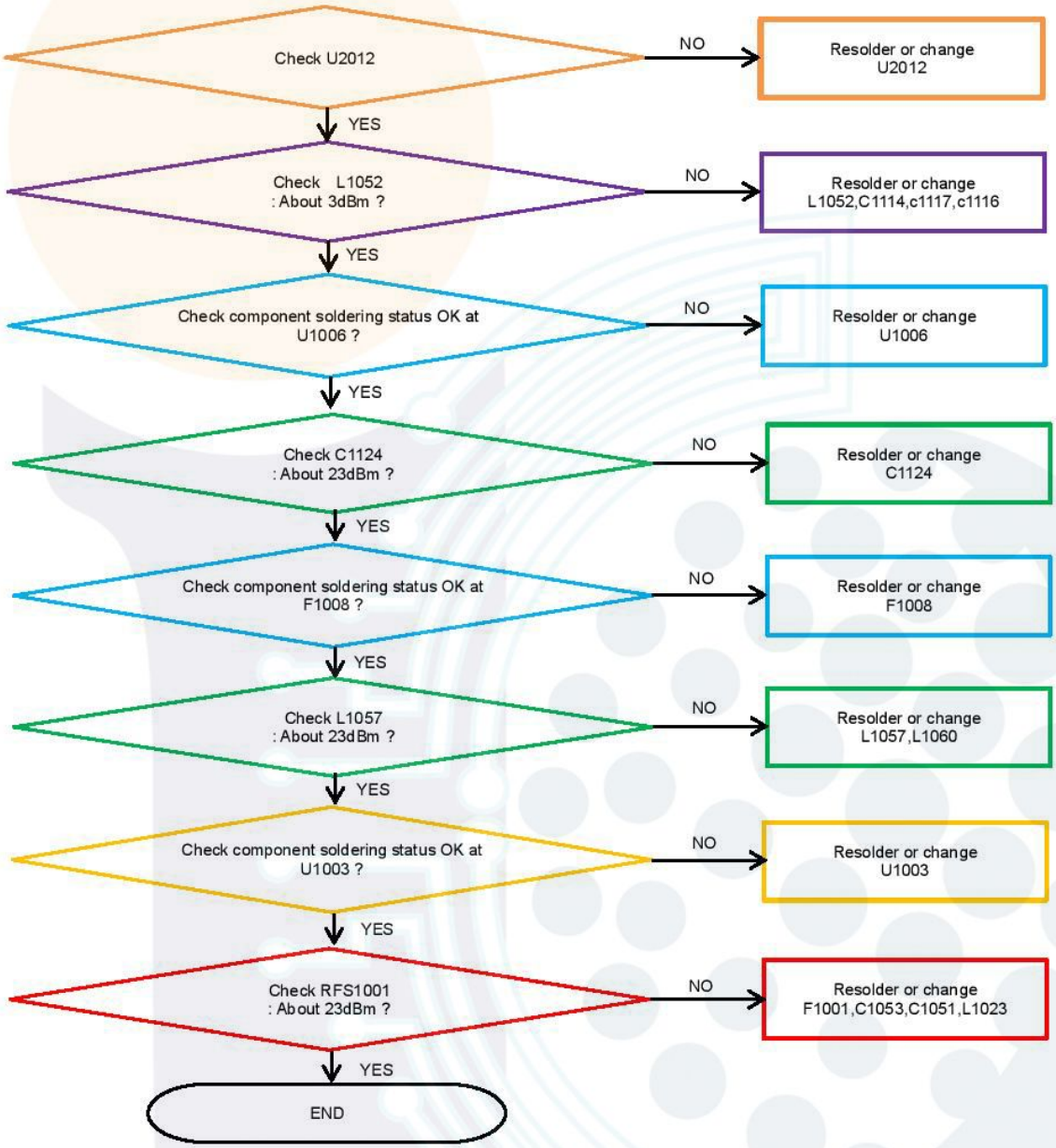
8-4-43. LTE B40 TX



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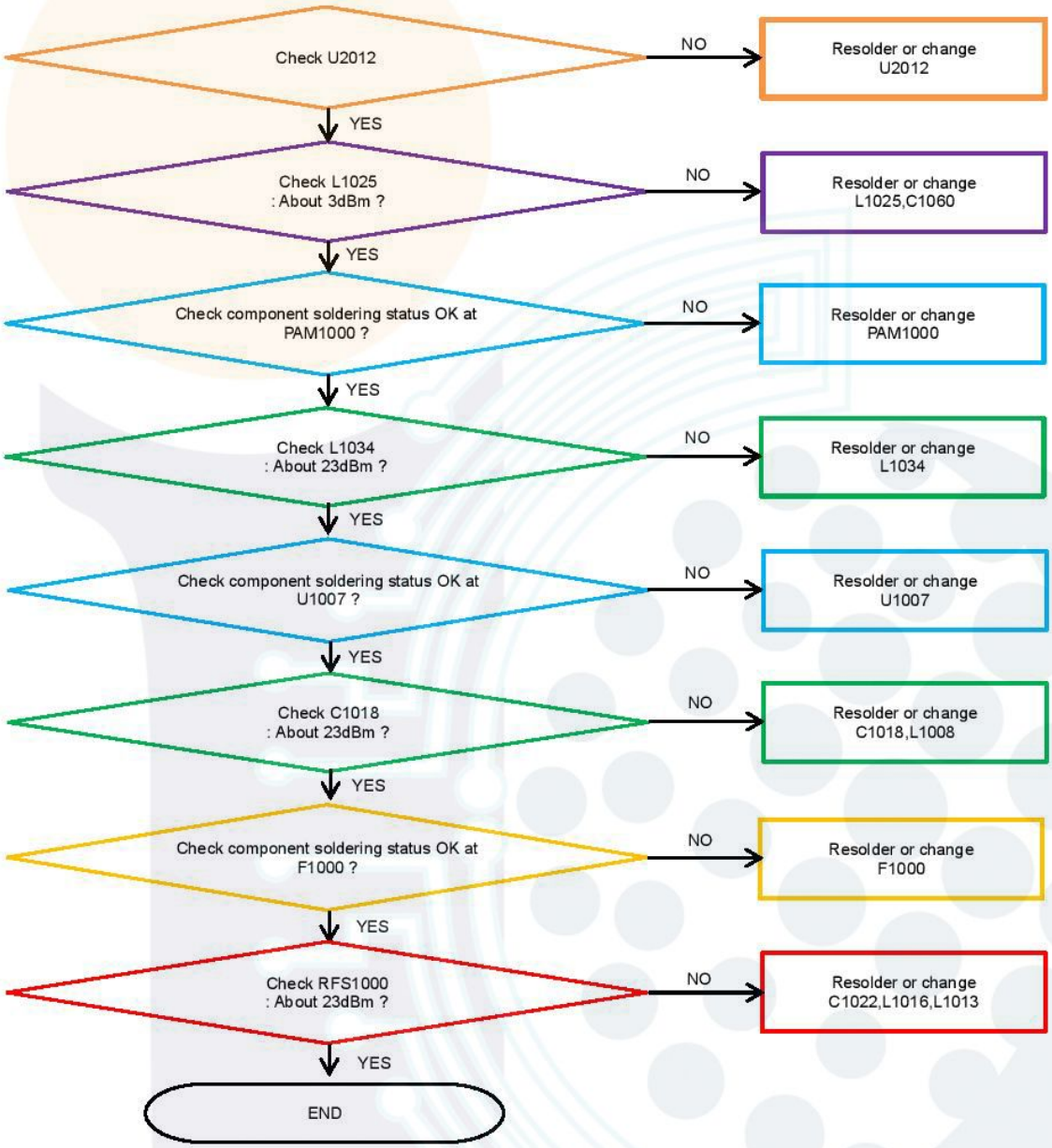
8-4-44. WCDMA B4, LTE B4/B66 TX [SM-A205G/GN]



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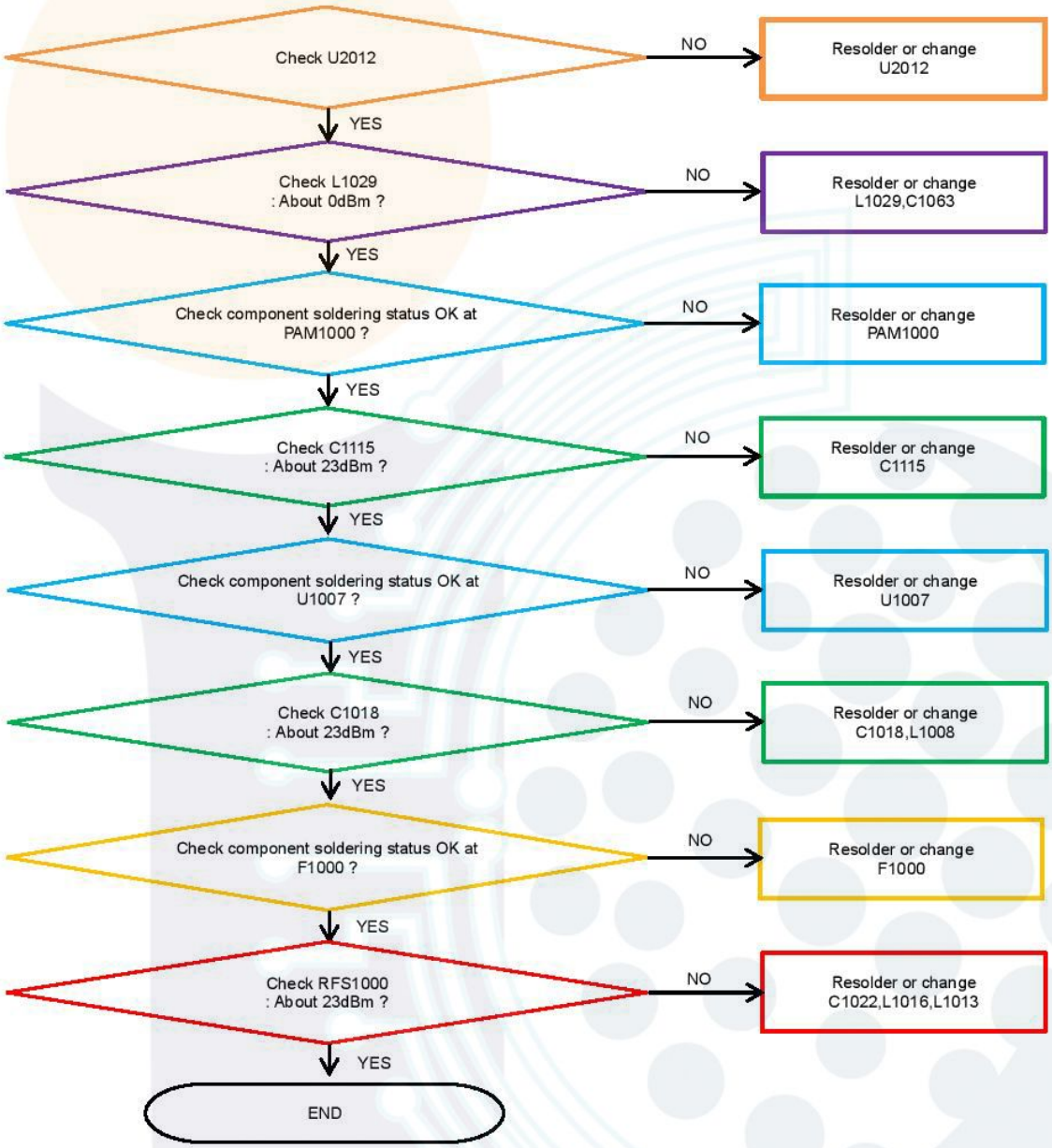
8-4-45. LTE B12/B17 TX [SM-A205G/GN]



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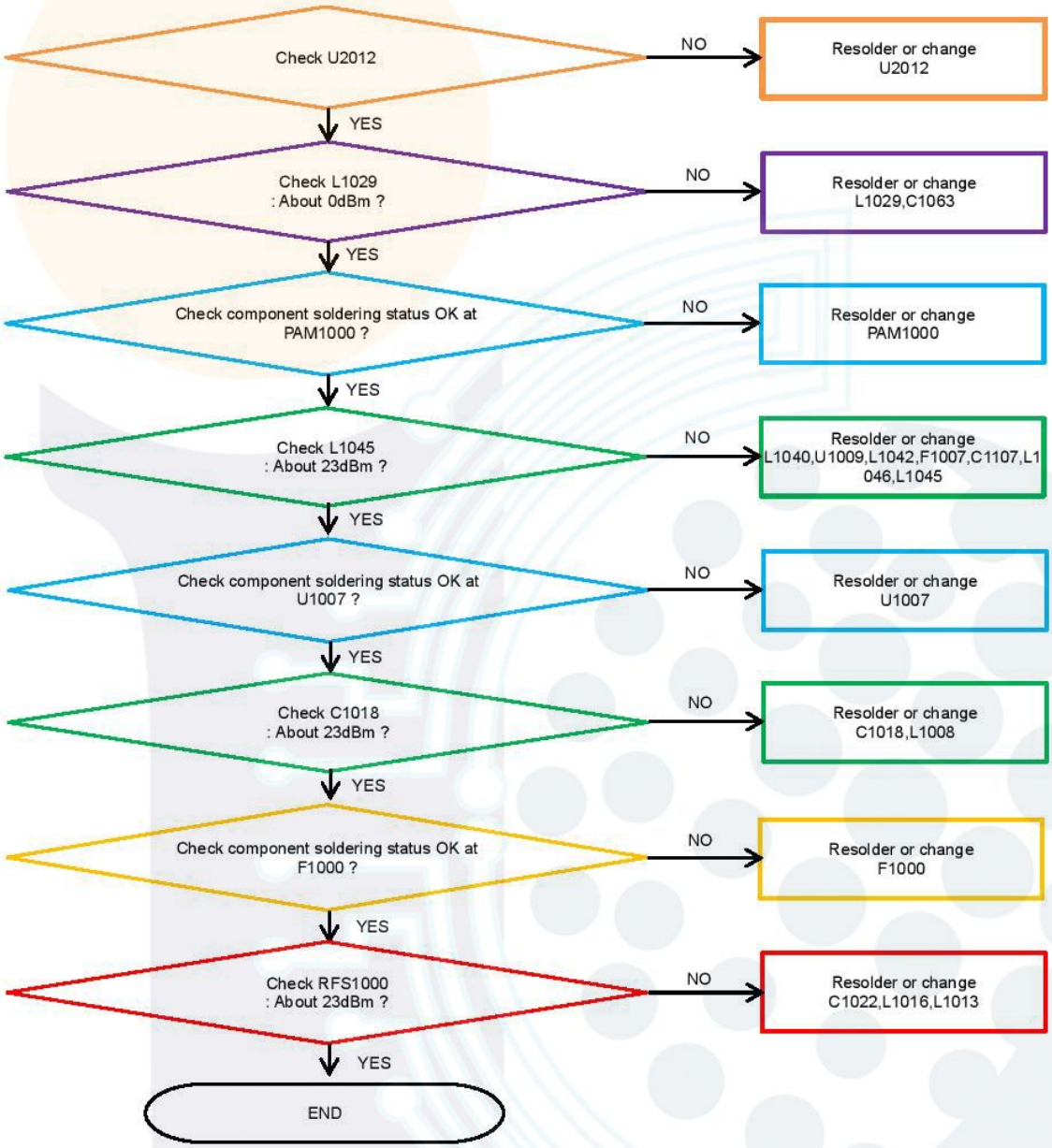
8-4-46. LTE B13 TX [SM-A205G/GN]



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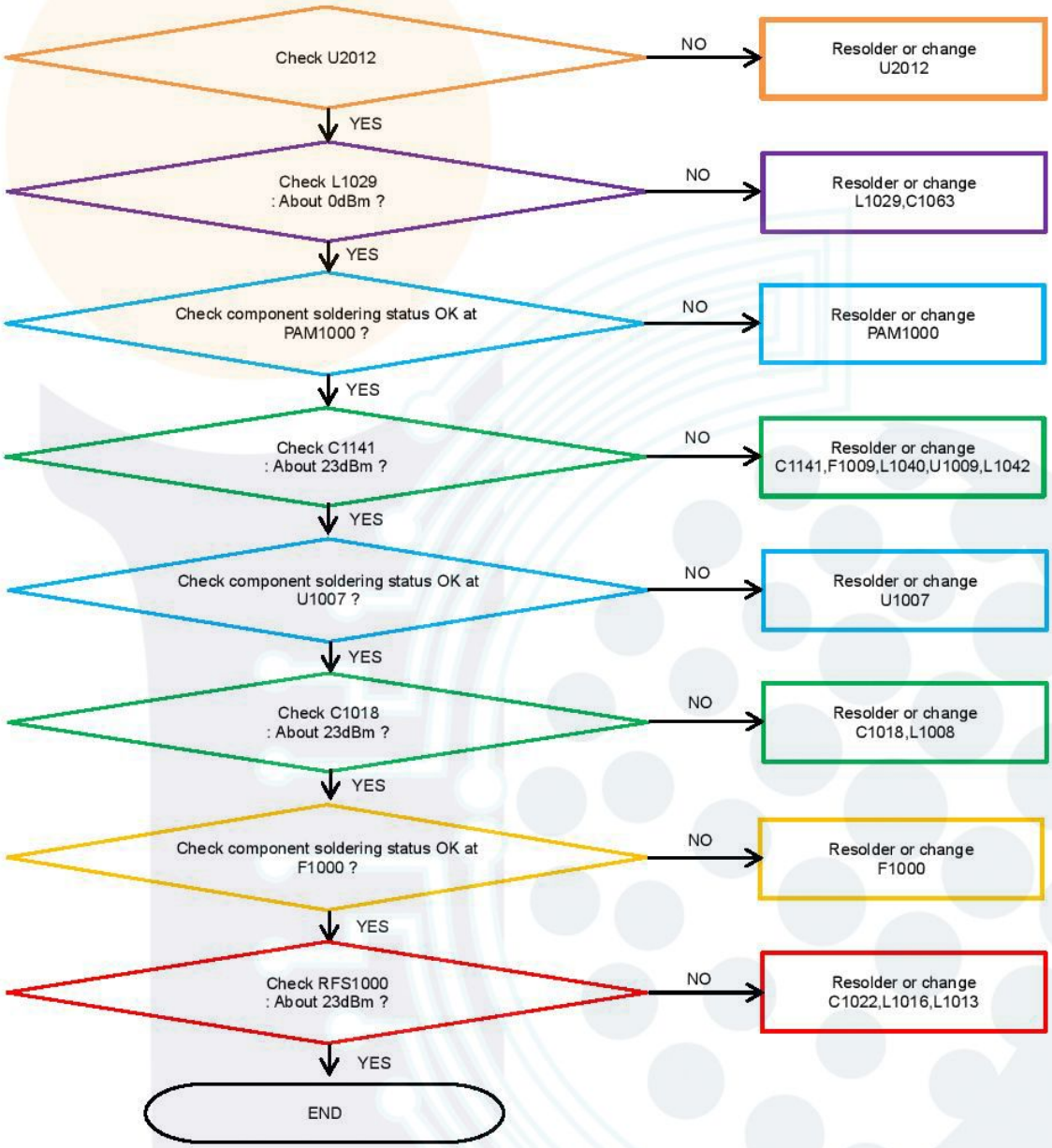
8-4-47. LTE B28 TX [SM-A205G/GN]



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