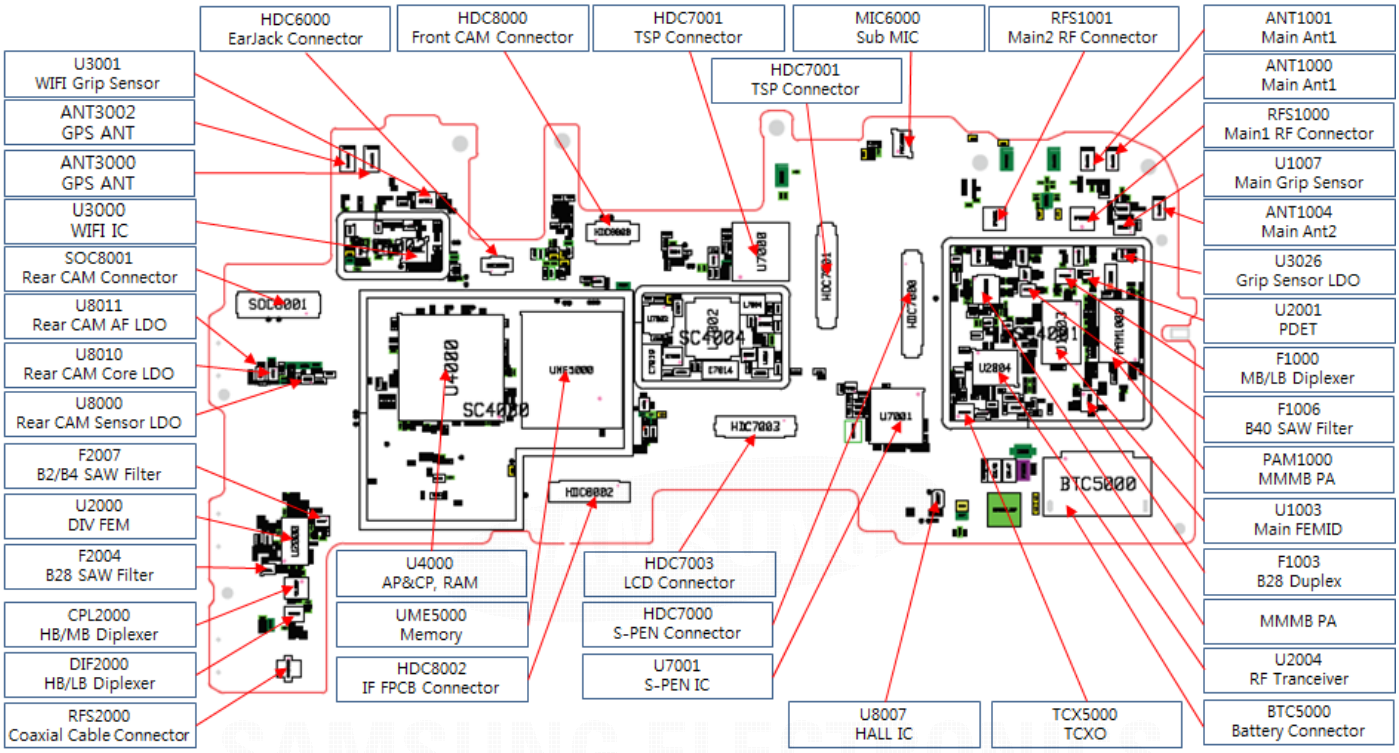
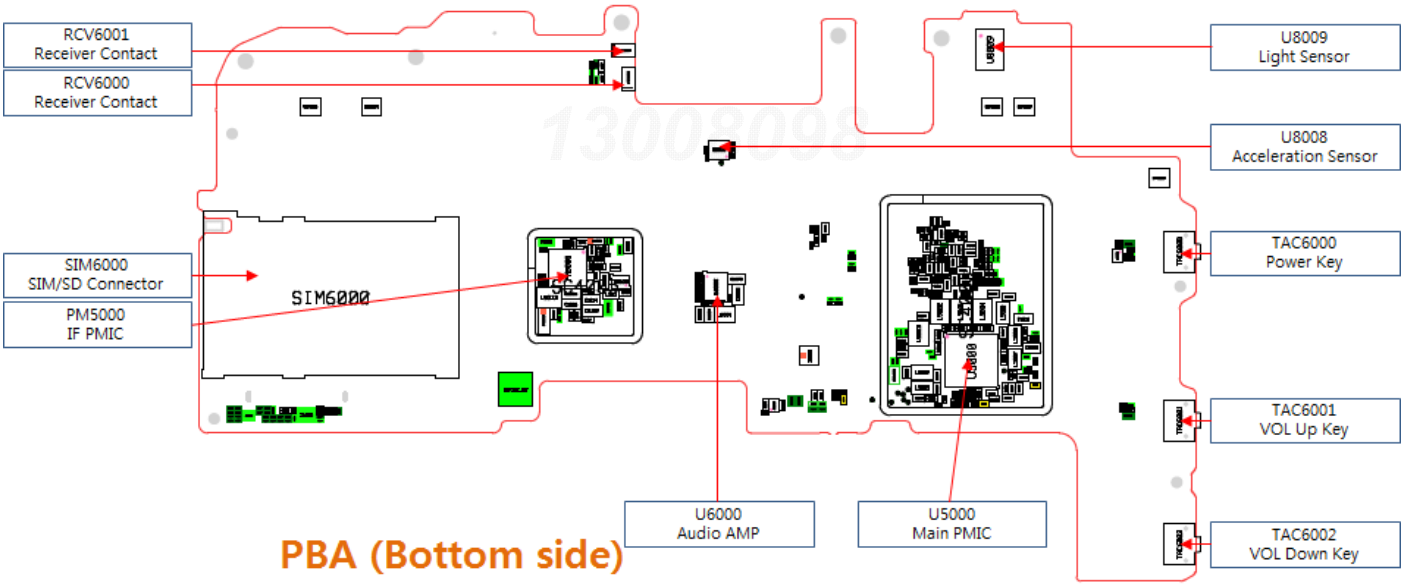
8. Level 3 Repair

8-1. Components Layout

[SM-P205]



PBA (Top side)



PBA (Bottom side)

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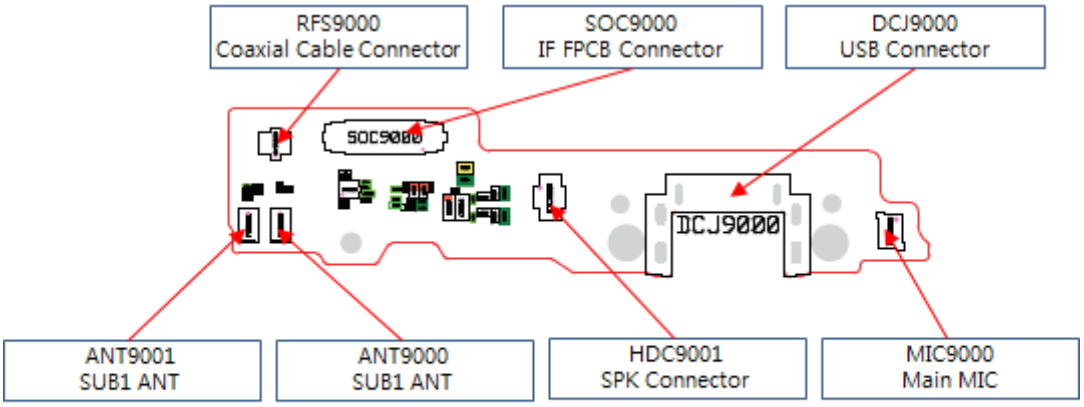
8. Level 3 Repair



SUB PBA (Top side)

SUB PBA (Bottom side)

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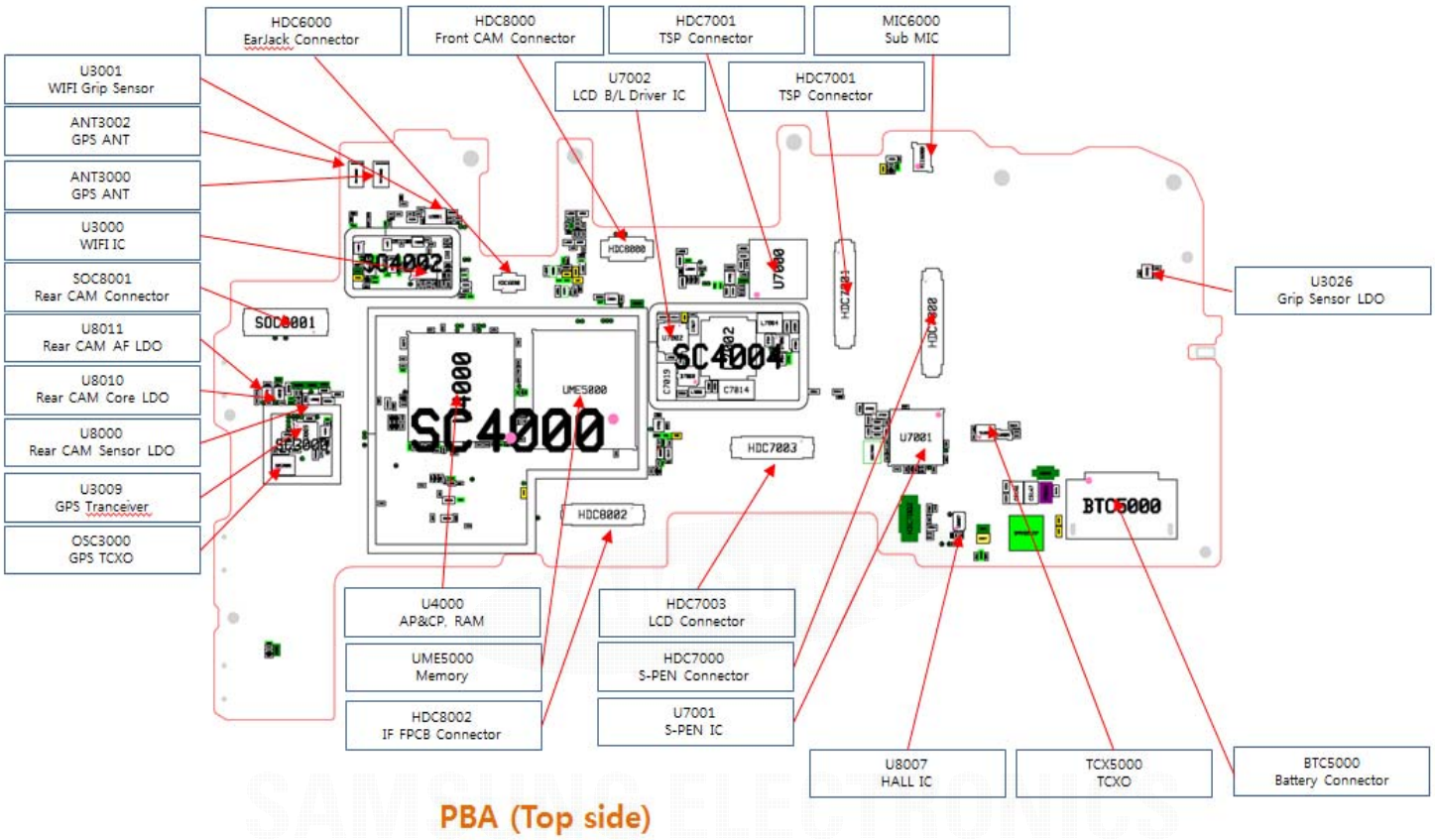
8. Level 3 Repair

[SM-P200]



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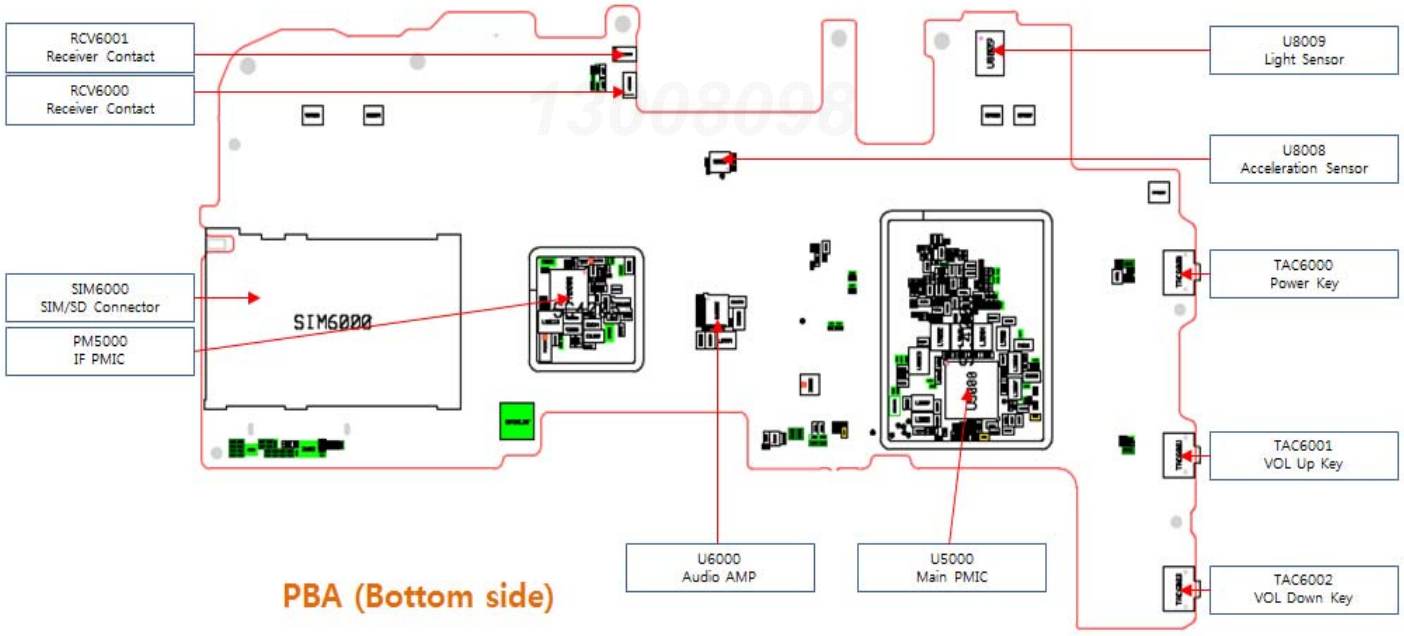

PBA (Bottom side)

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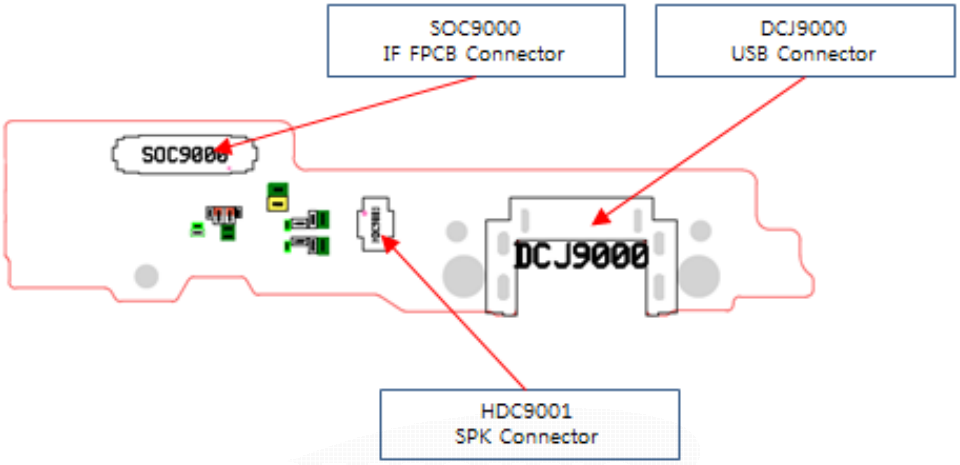
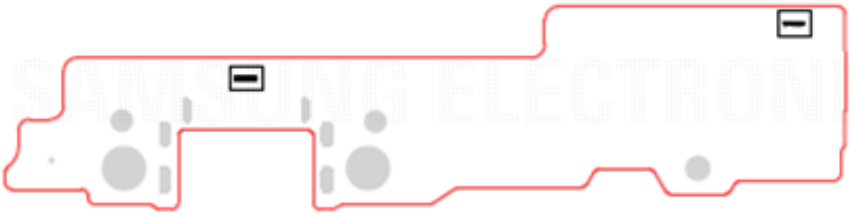
8. Level 3 Repair



SUB PBA (Top side)



SUB PBA (Bottom side)

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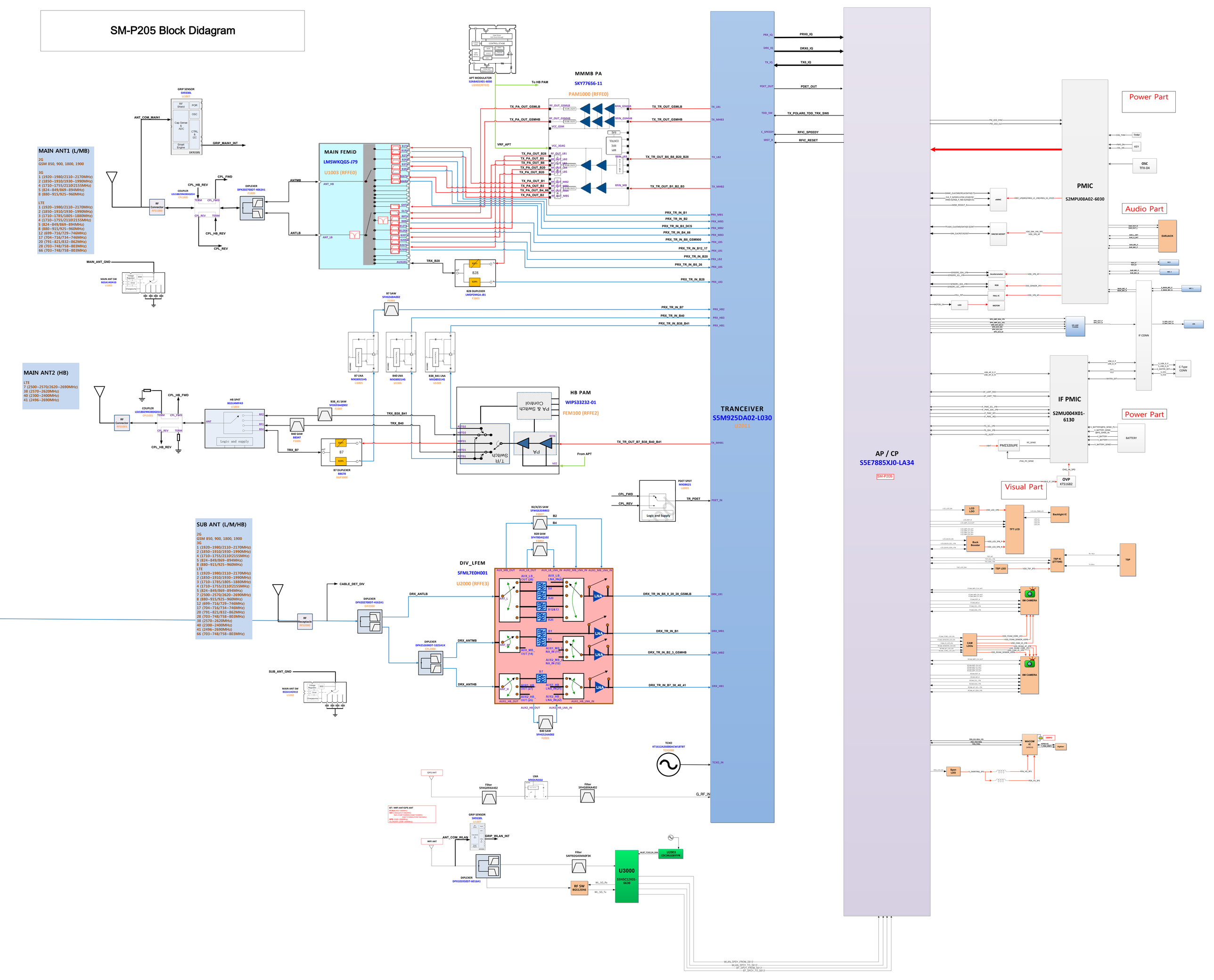
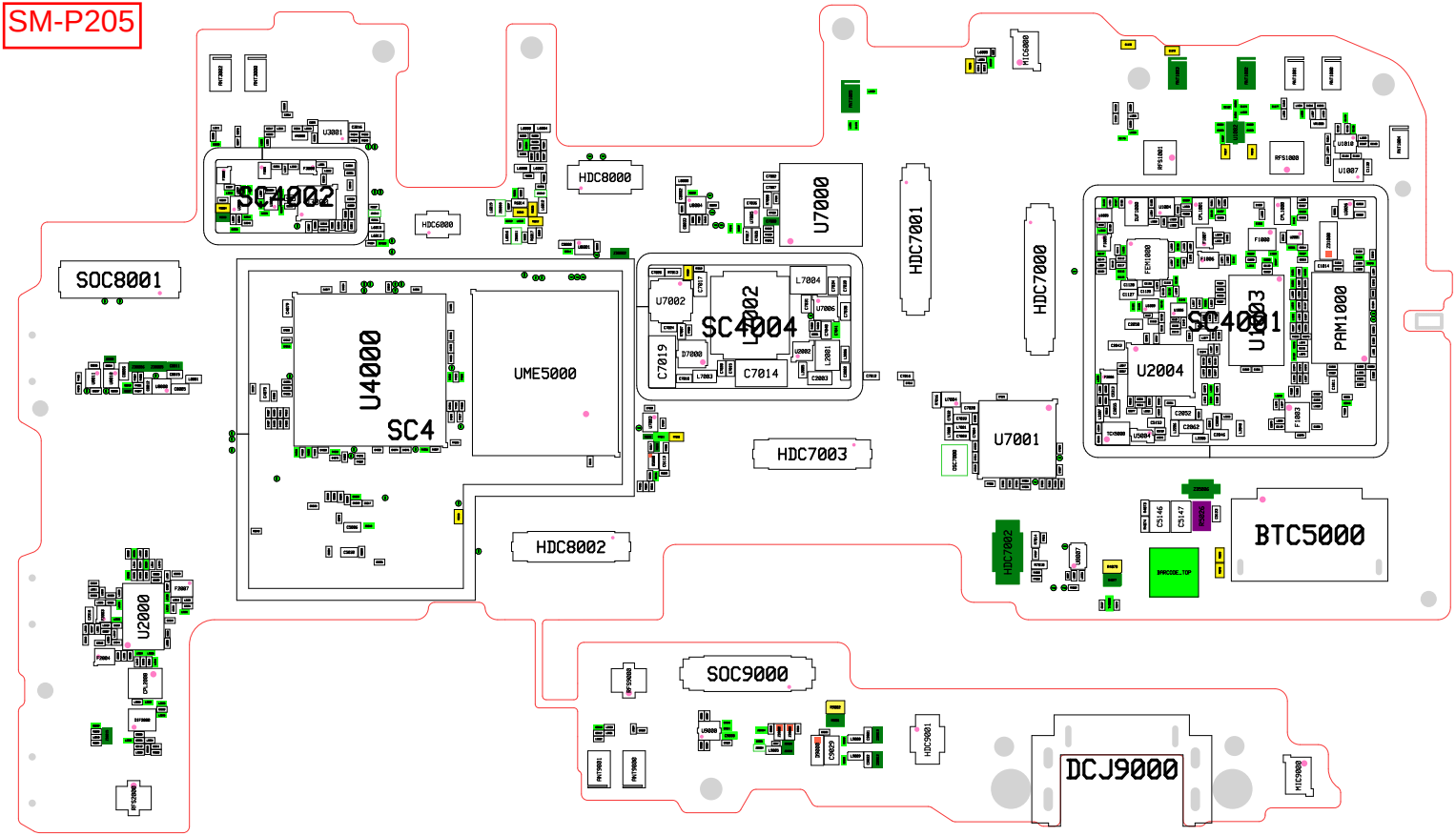
SM-P205 Block Didagram



SM-P205


SC4002
HDC6000
HDC8000
U7000
HDC7001
HDC7000
SC4001
U2004
U1003
PAM1000
SOC8001
U4000
SC4
UME5000
SC4004
U7002
L7004
U7006
C7019
D7000
C7014
HDC7003
U7001
HDC8002
HDC7002
BTC5000
U2000
SOC9000
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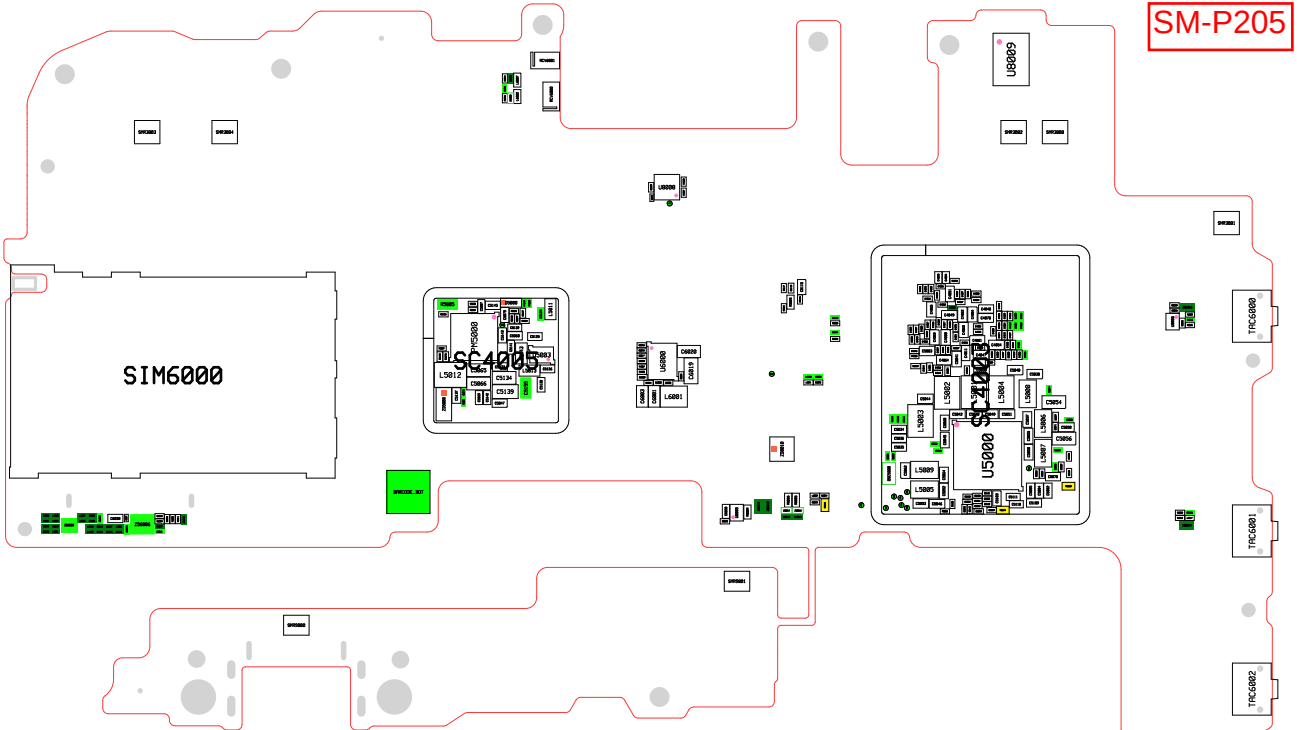
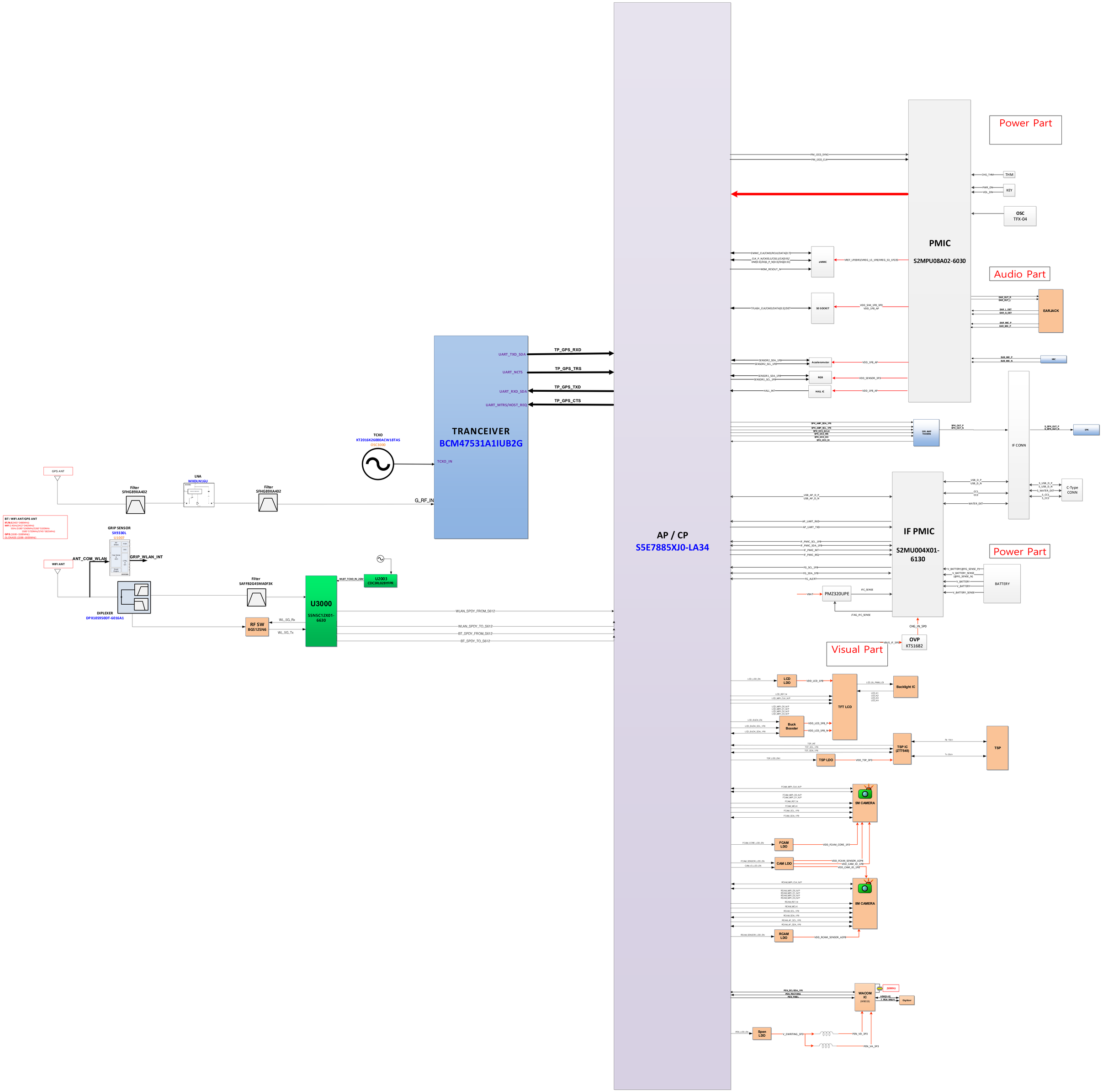
DCJ9000

SM-P205

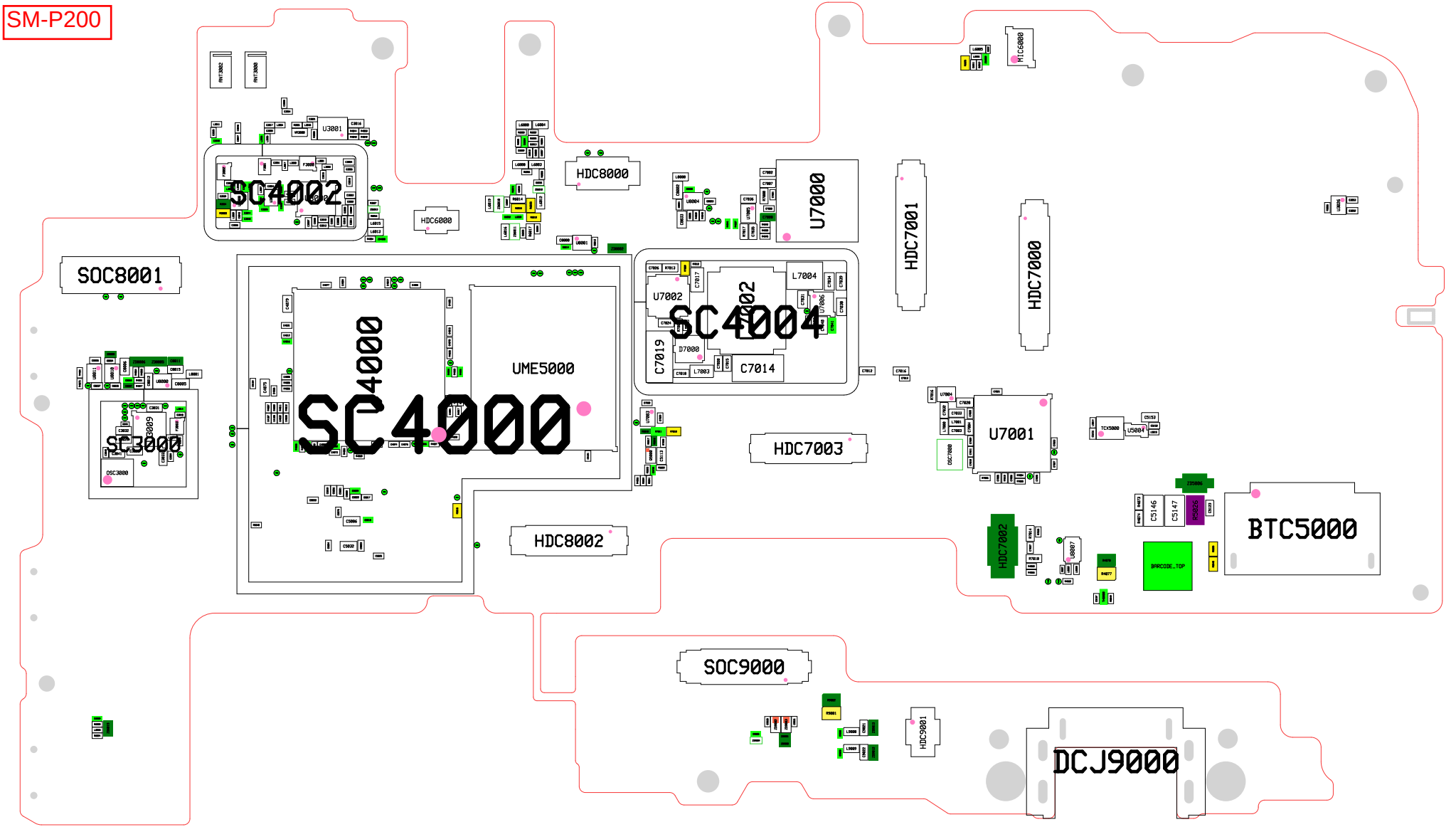

SIM6000
SC4000
U5000
U8009
TRC6000
TRC6001
TRC6002
L5012
C5134
C5139
C5056
L5003
L5002
L5004
L5009
L5005
L5013
C5054
C5055
C5057
C5058
C6020
C6019
L6001
U6000
SMR2002
SMR2004
SMR2003
SMR2001
SMR5001
SMR5000
SMR2000_NOT

SM-P200 Block Didagram

REV0.3
19.01.28



SM-P200


SC4002
U3001
HDC6000
HDC8000
U7000
HDC7001
HDC7000
SOC8001
SC4000
UME5000
U7002
SC4004
L7004
C7019
D7000
C7014
L7003
HDC7003
U7001
SC3000
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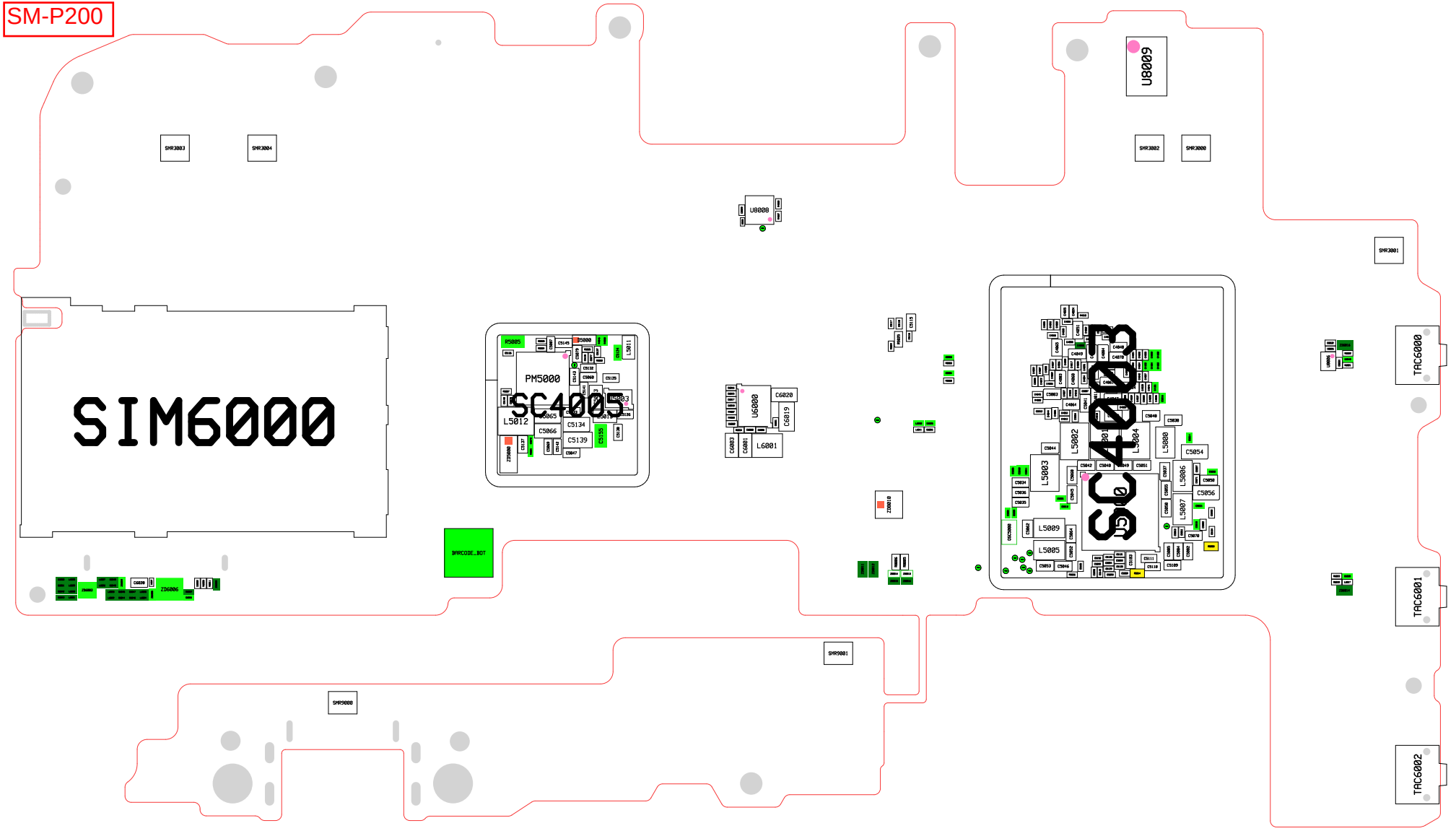
BTC5000
SOC9000
HDC9001
DCJ9000

SM-P200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PM5000
SC4005
U6000
C6020
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L6001
U8000
U8009
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L5002
L5004
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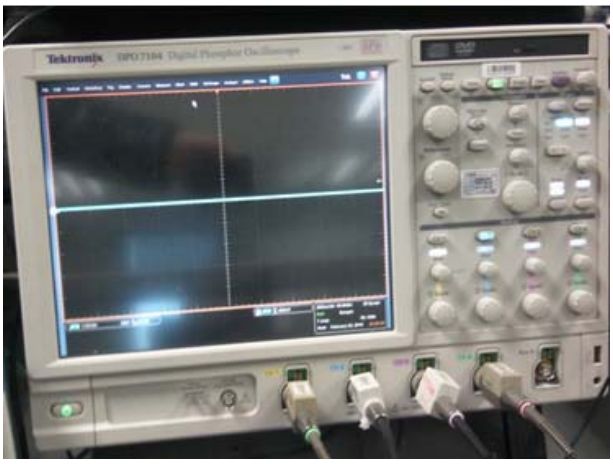
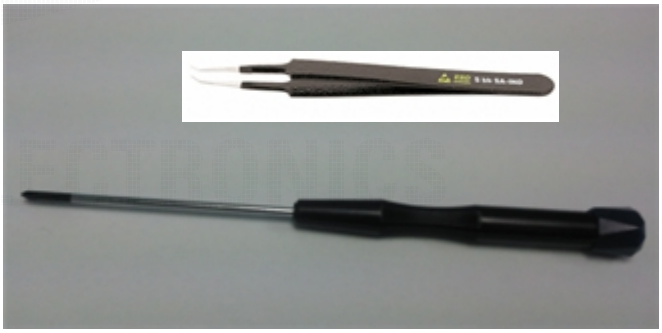
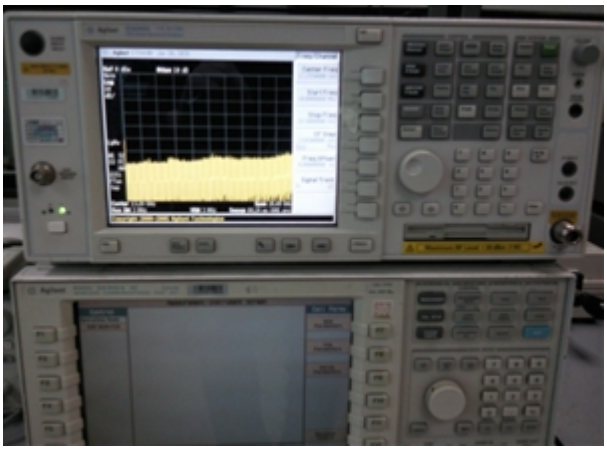
L5009
L5005
L5000
L5006
L5007
C5054
C5056
L5012
C5134
C5139
C5066
BARCODE_BOT
SMR3003
SMR3004
SMR3002
SMR3000
SMR3001
SMR9001
SMR9000
TAC6000
TAC6001
TAC6002

8-3. Flow chart of Troubleshooting.

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

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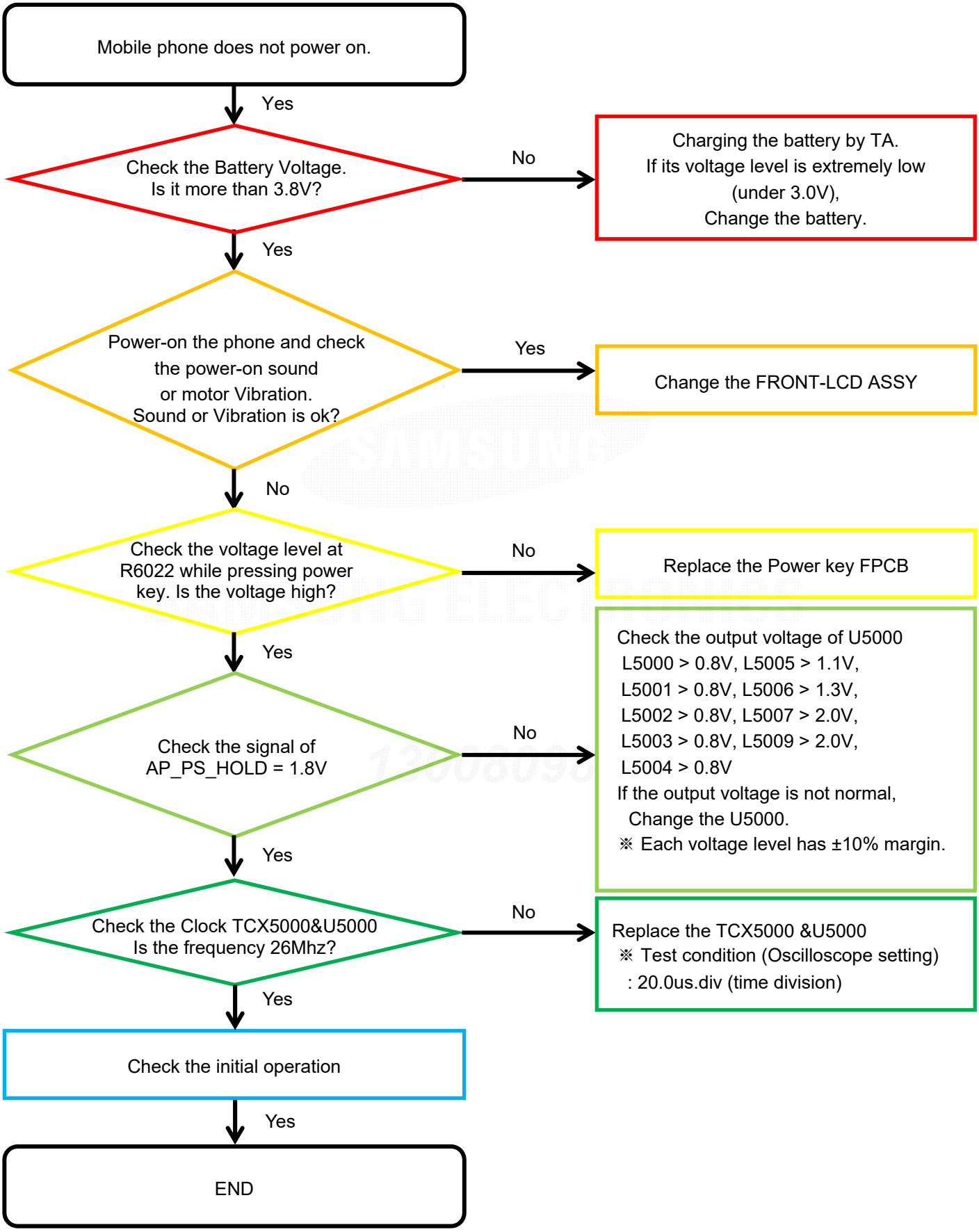
8-4-1. Power On



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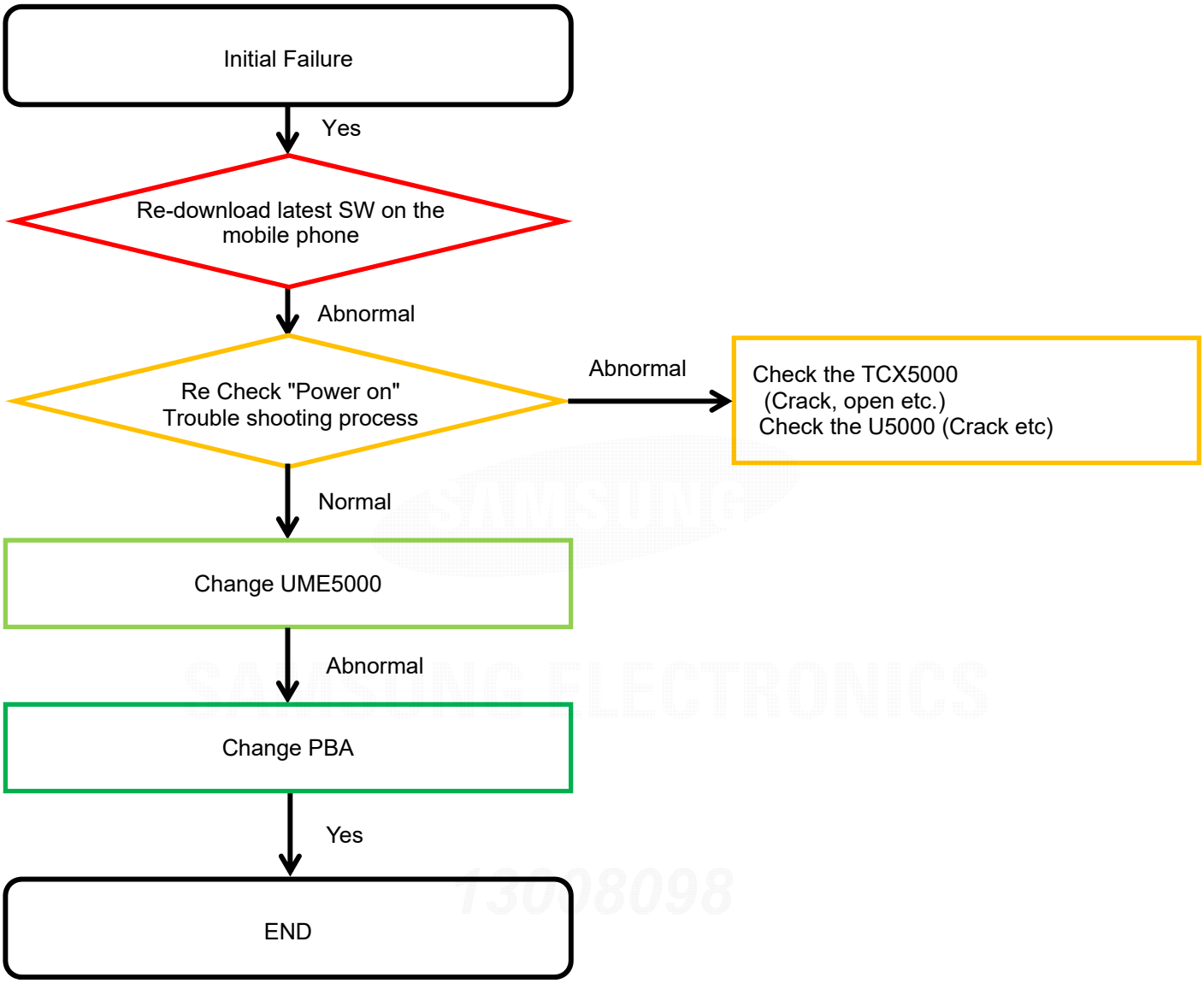
8-4-2. Initial



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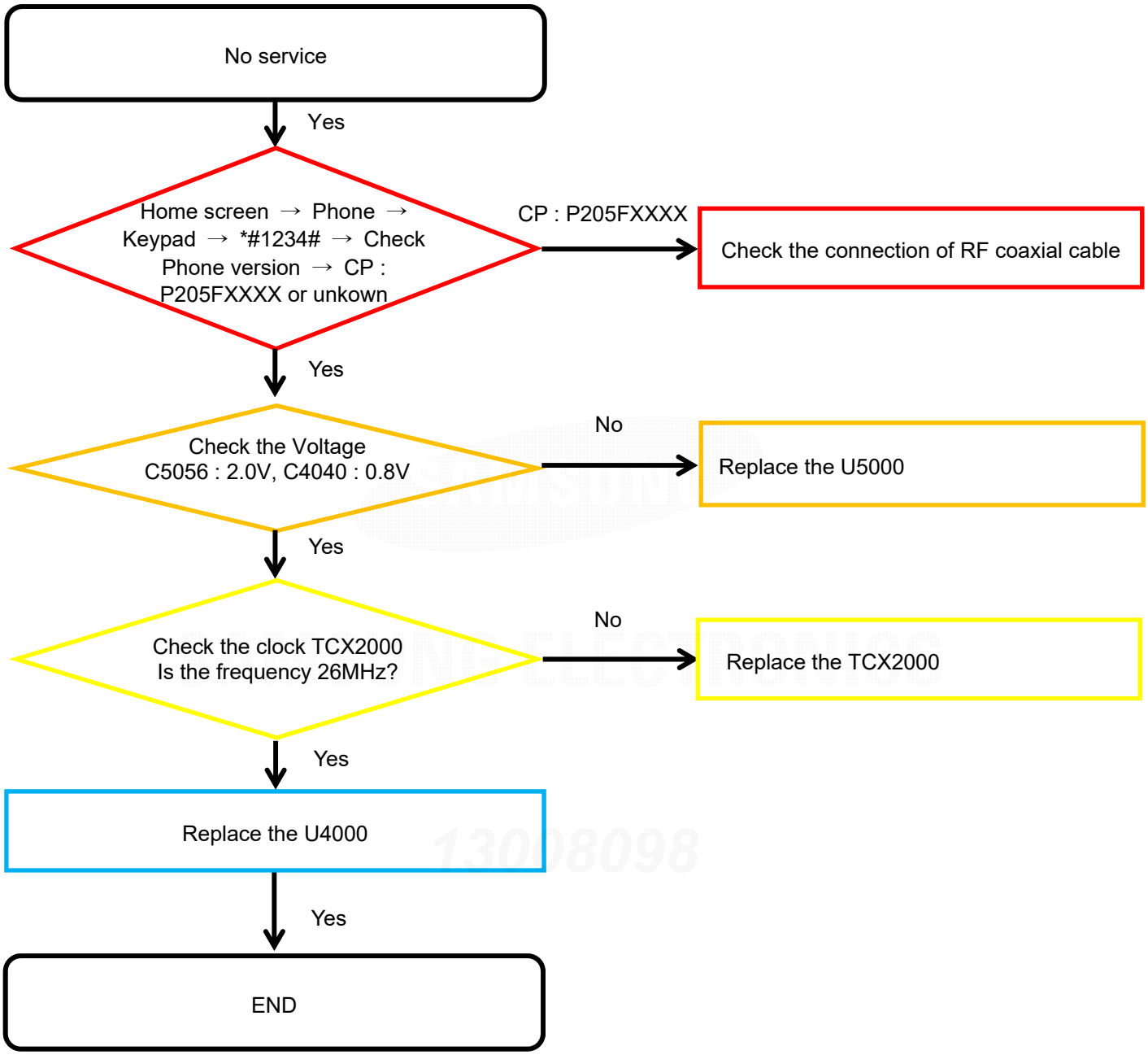
8-4-3. No Service <P205 Only>



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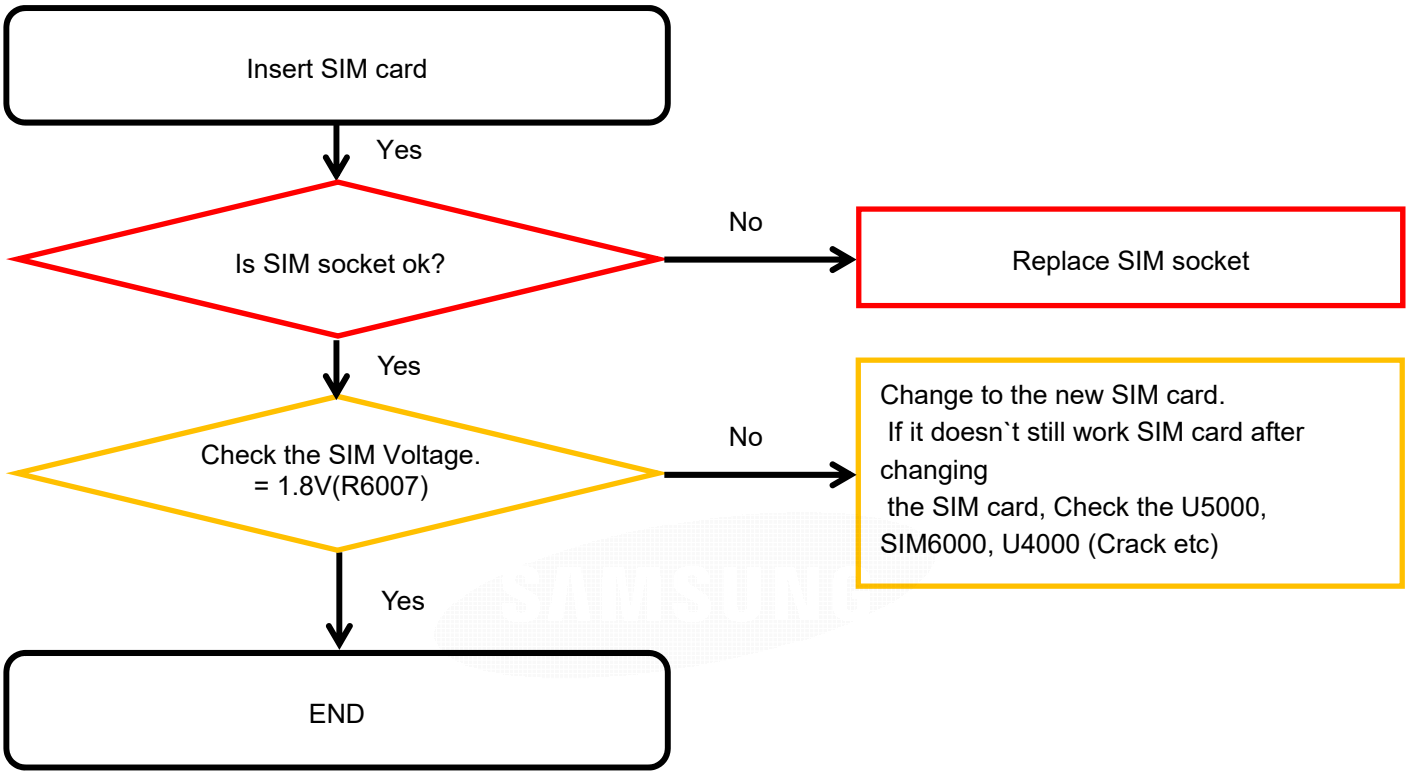
8-4-4. SIM Part <P205 Only>



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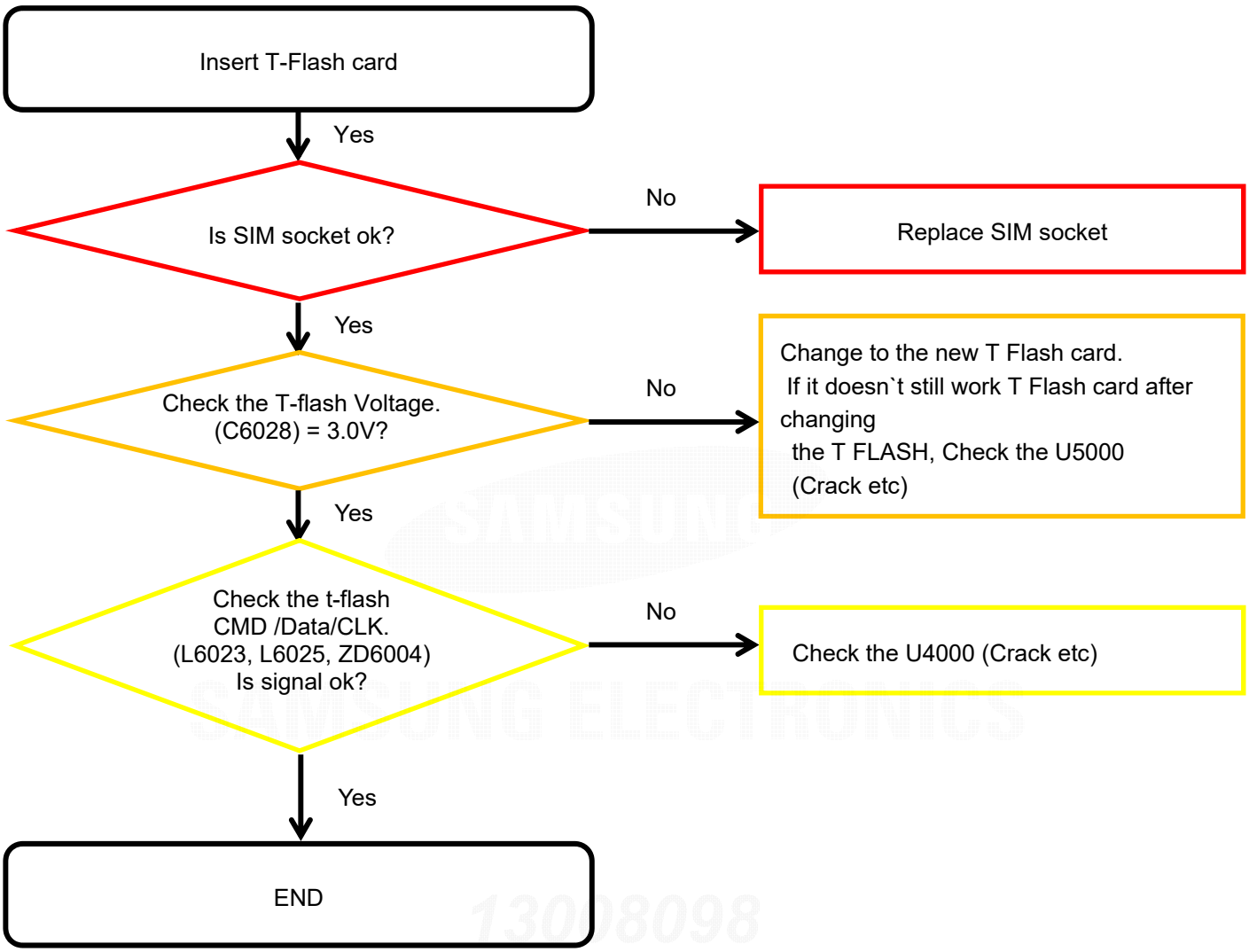
8-4-5. T-Flash Part



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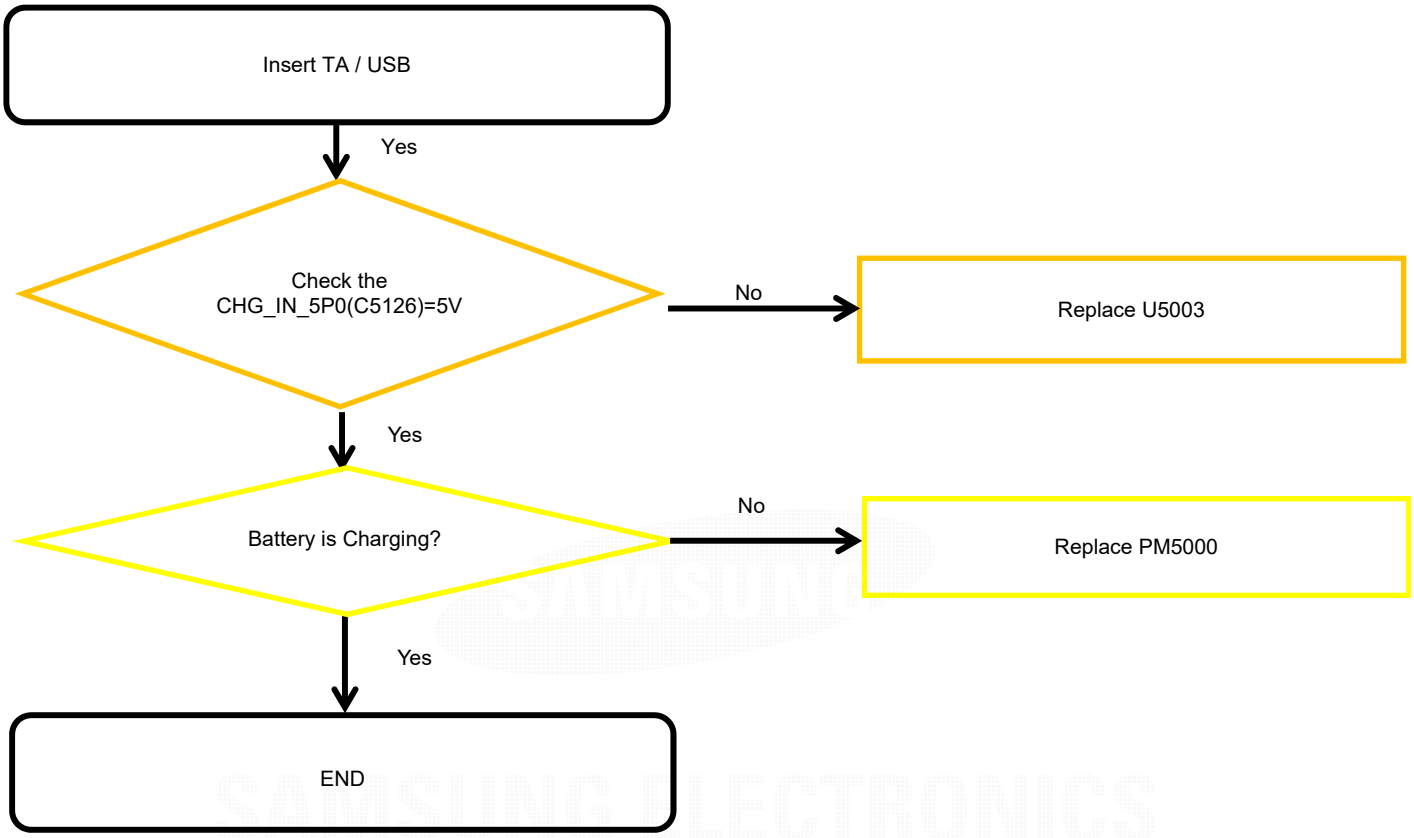
8-4-6. Cable Charging Part



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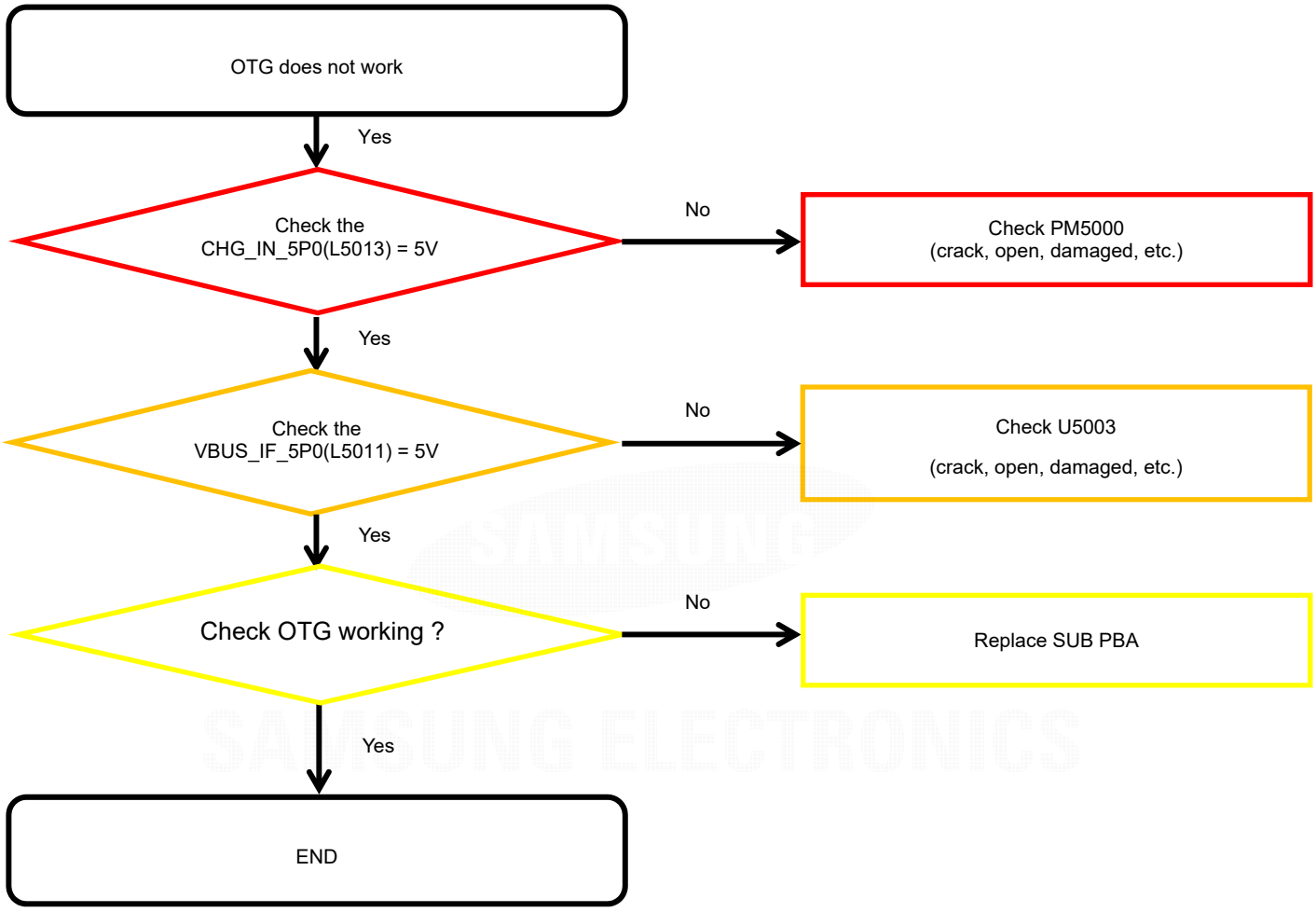
8-4-7. OTG



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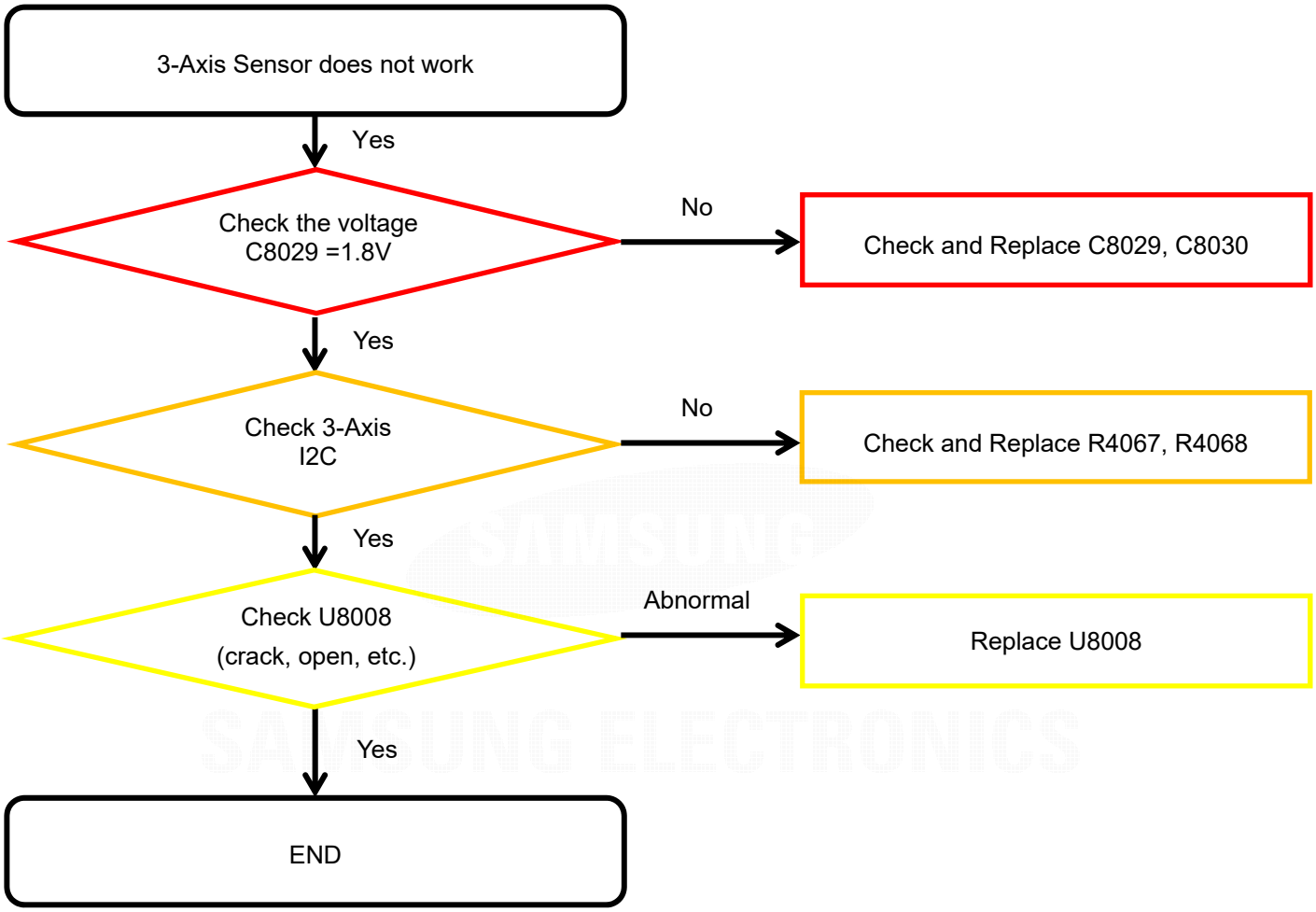
8-4-8-1. 3-Axis Sensor



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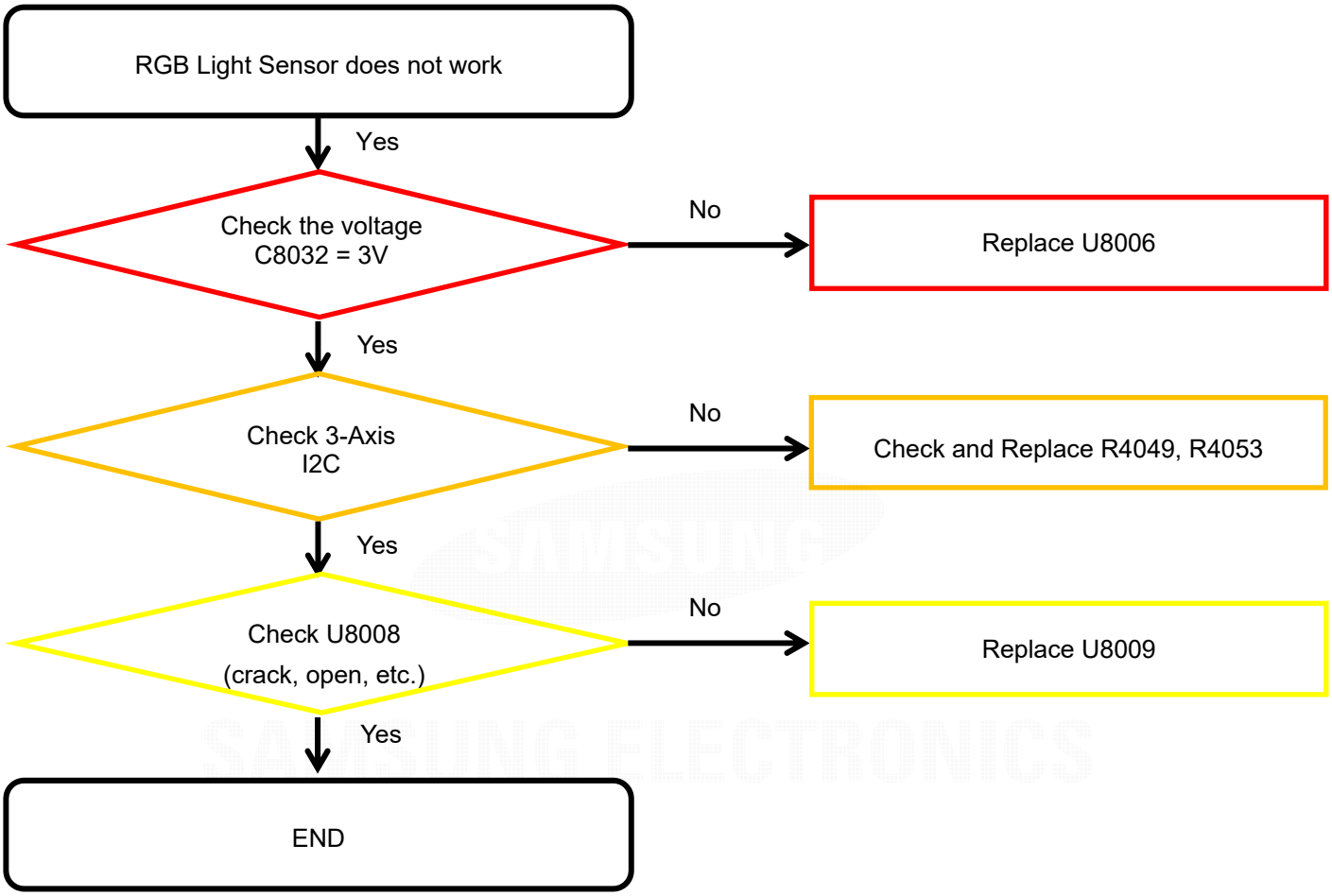
8-4-8-2. RGB Light sensor



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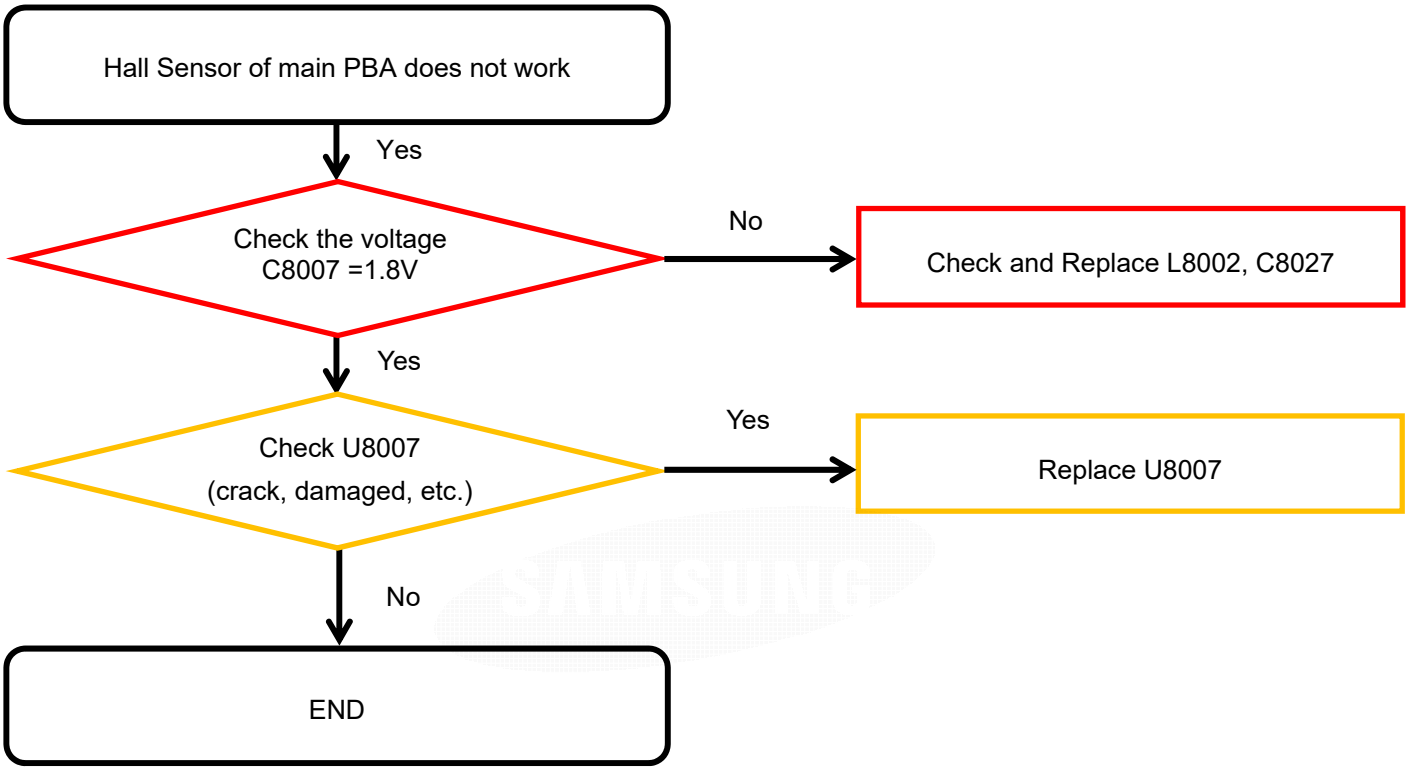
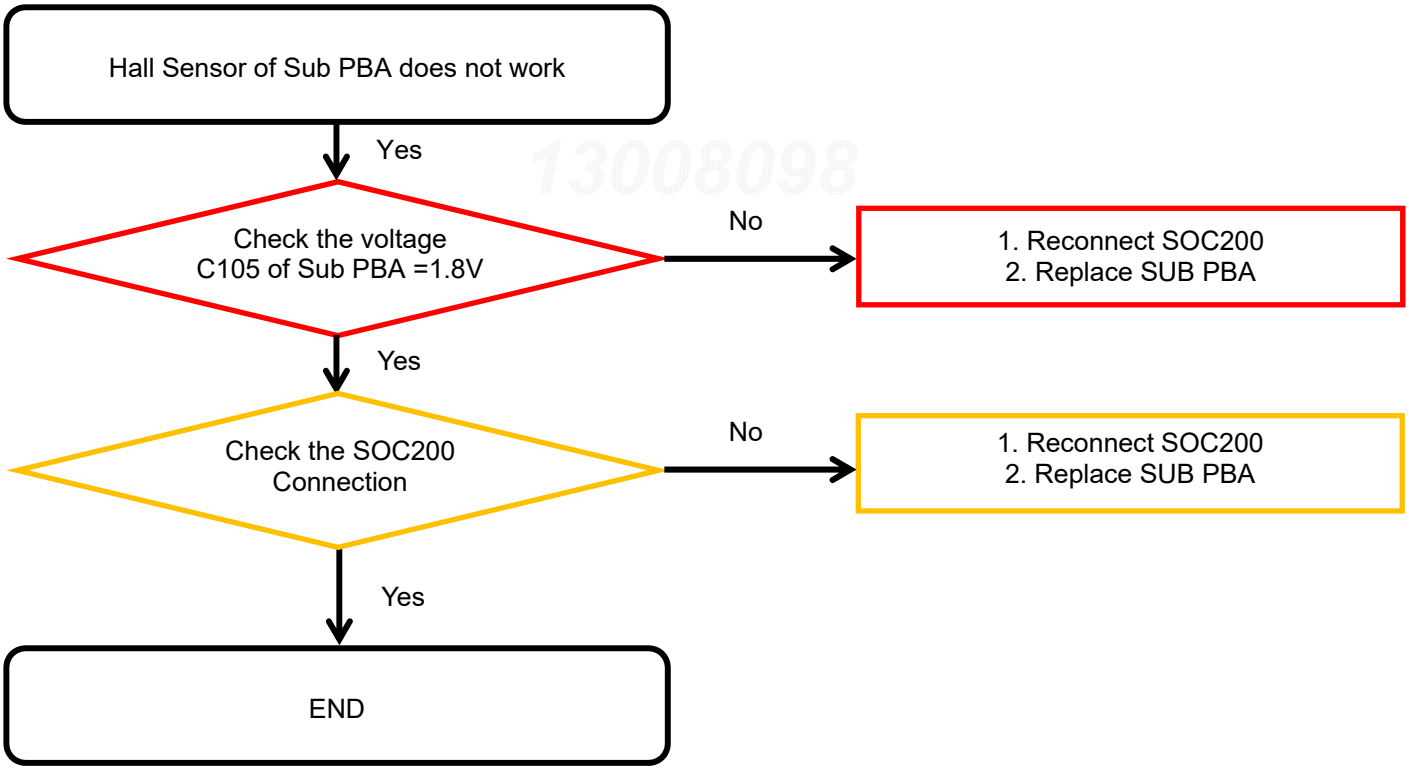
8-4-8-3. Hall Sensor





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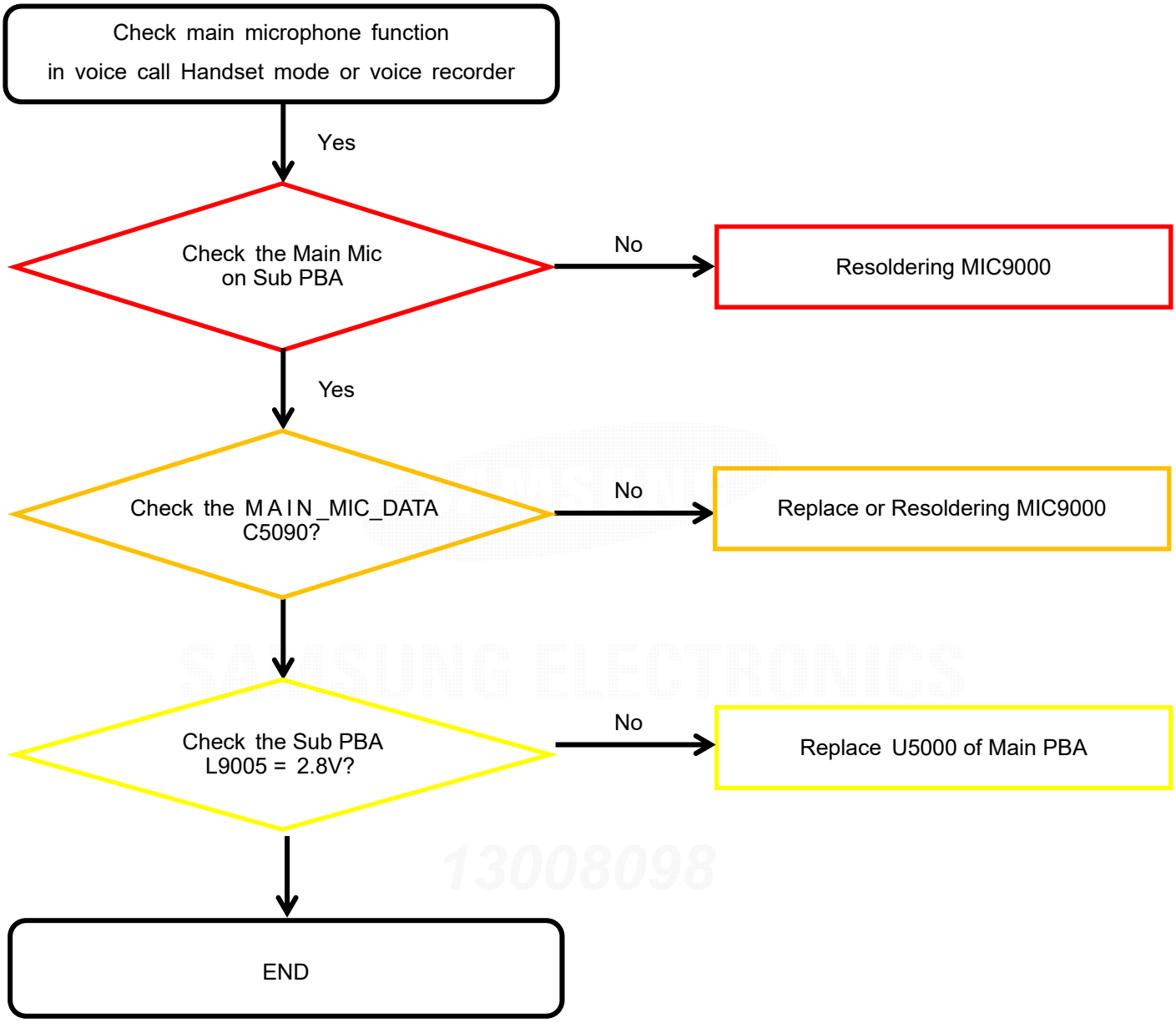
8-4-9-1. Microphone Part - Main MIC <P205 Only>



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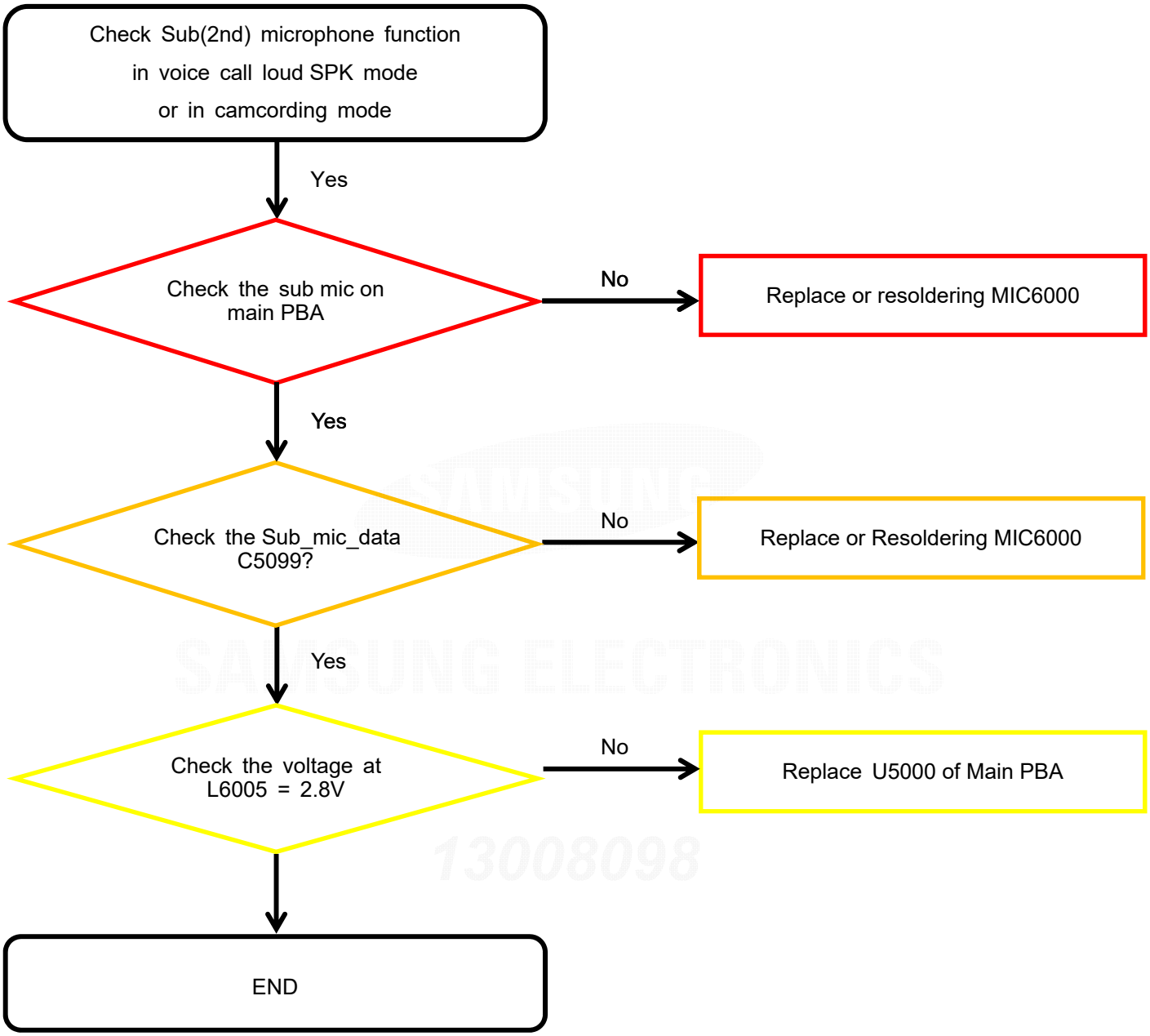
8-4-9-2. Microphone Part - Sub(2nd) MIC



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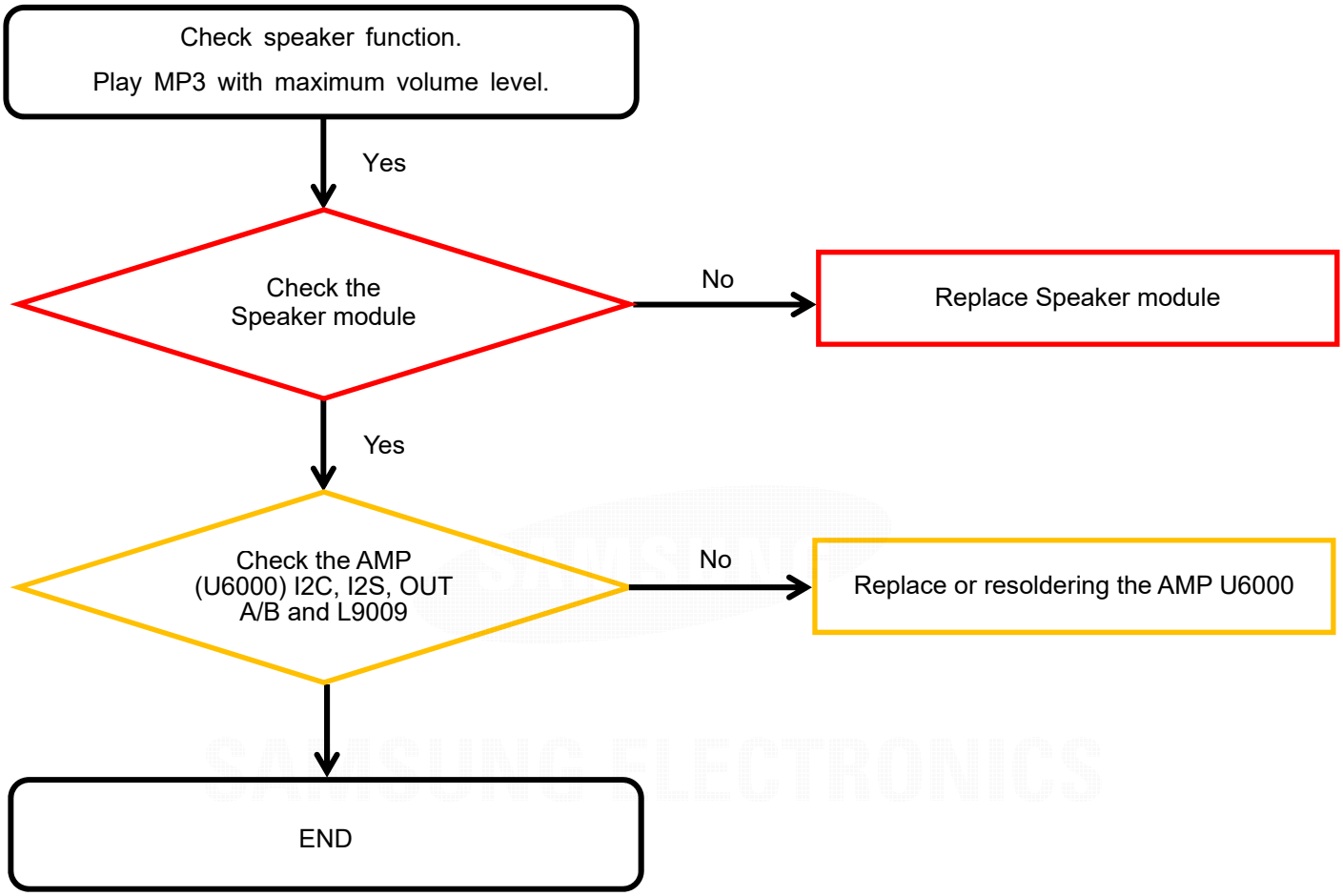
8-4-10. Speaker Part



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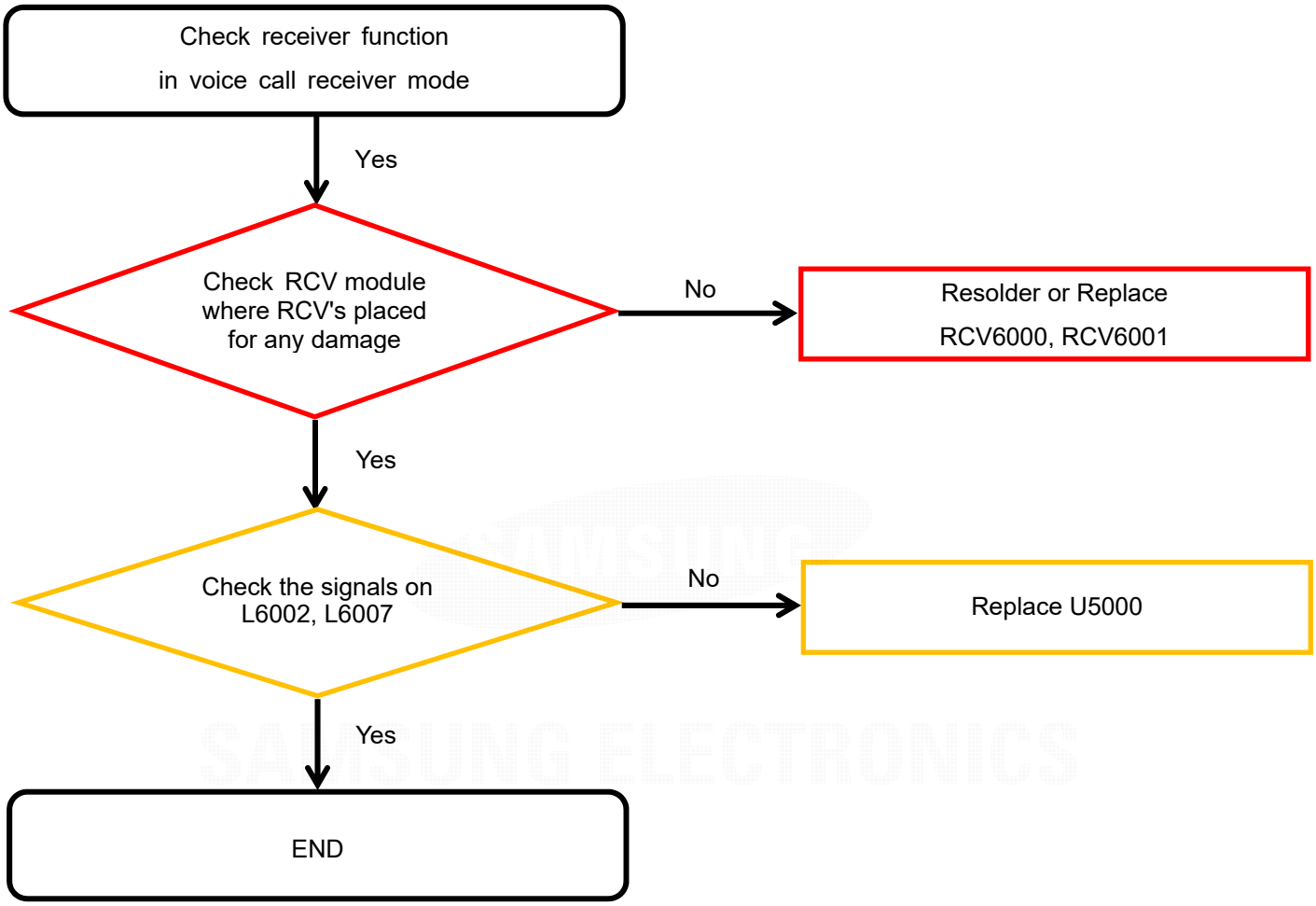
8-4-11. Receiver Part <P205 Only>



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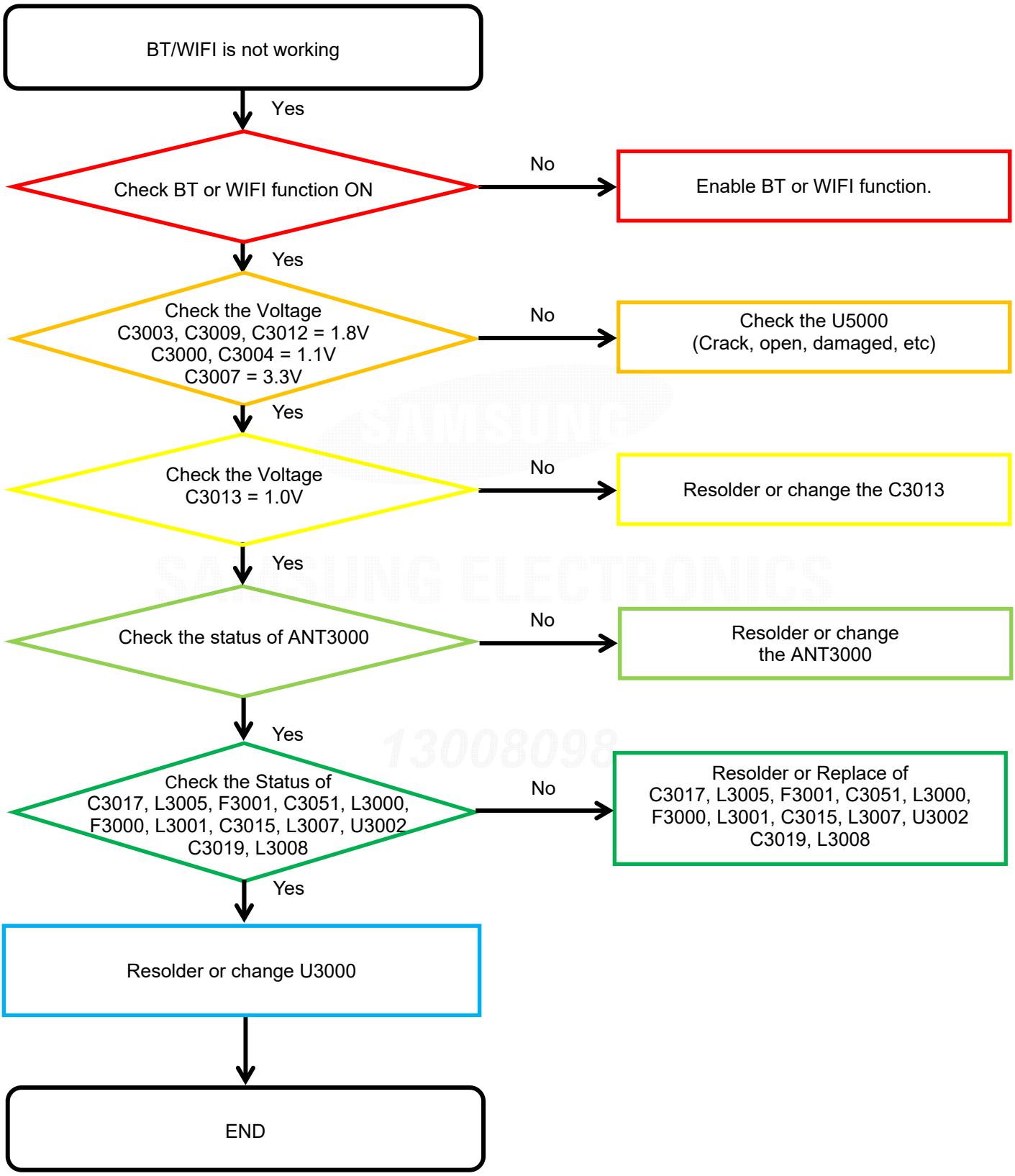
8-4-12. BT/WIFI



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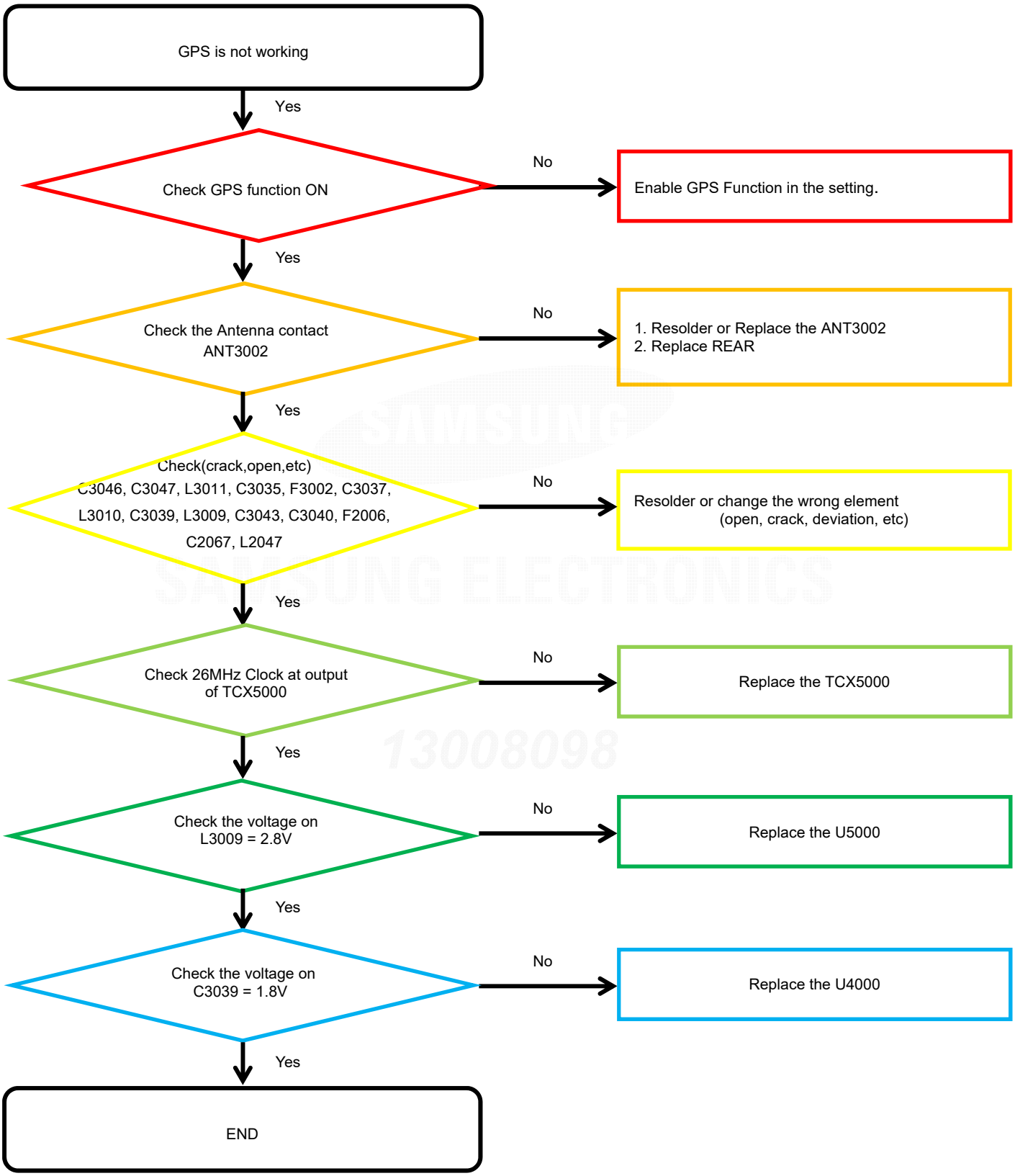
8-4-13-1. GPS <P205 Only>



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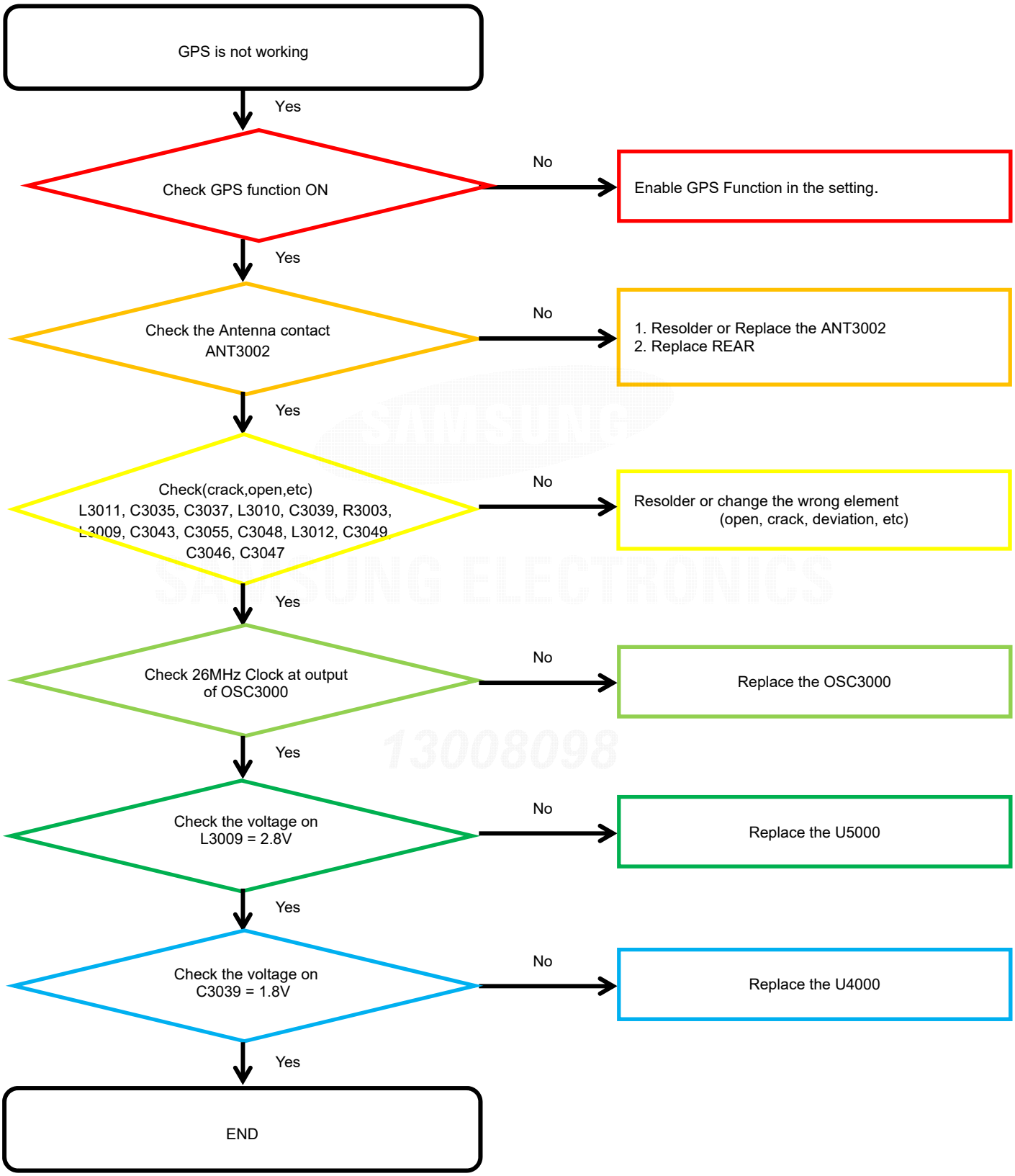
8-4-13-2. GPS <P200 Only>



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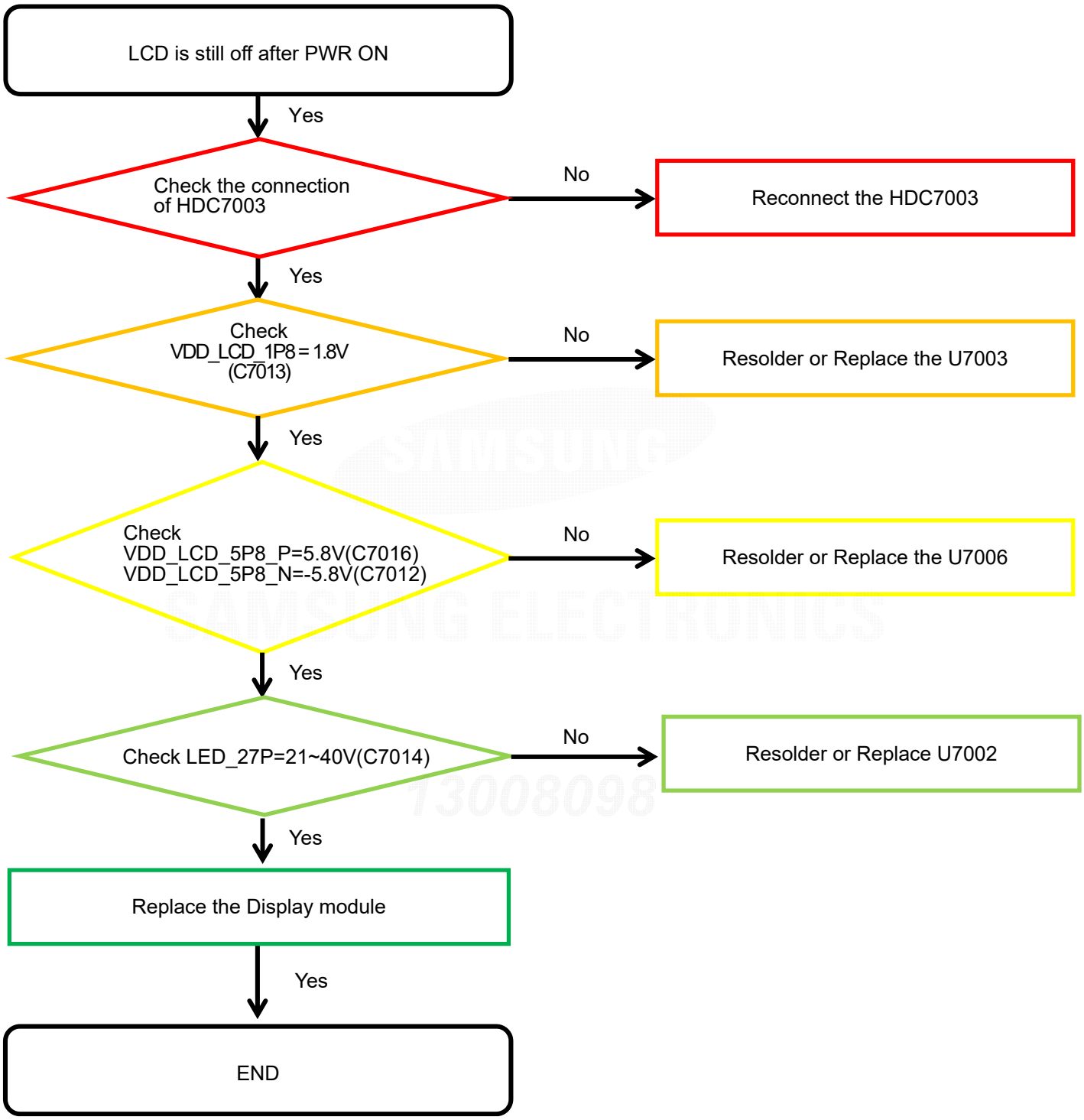
8-4-14. Display



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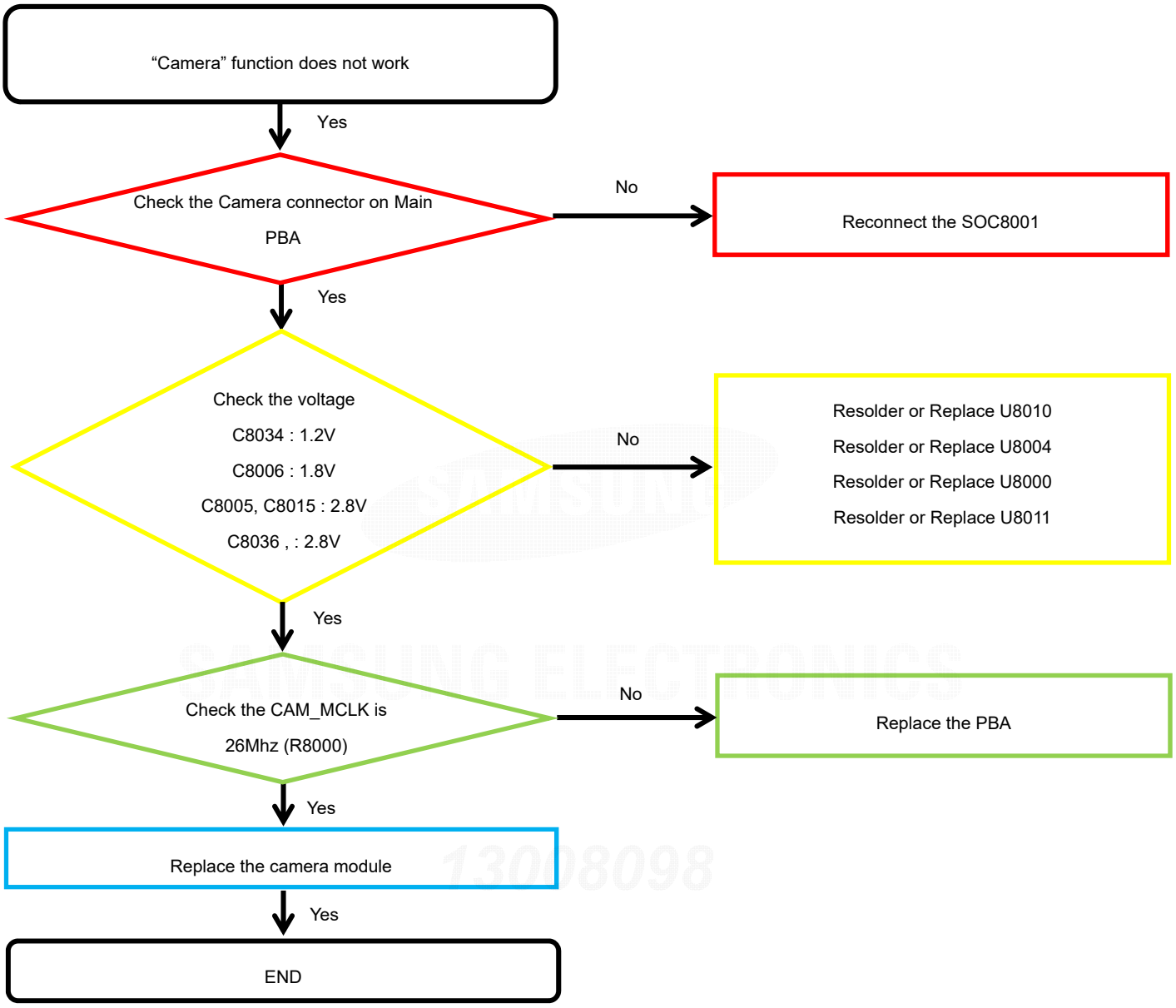
8-4-15. 8M CAMERA



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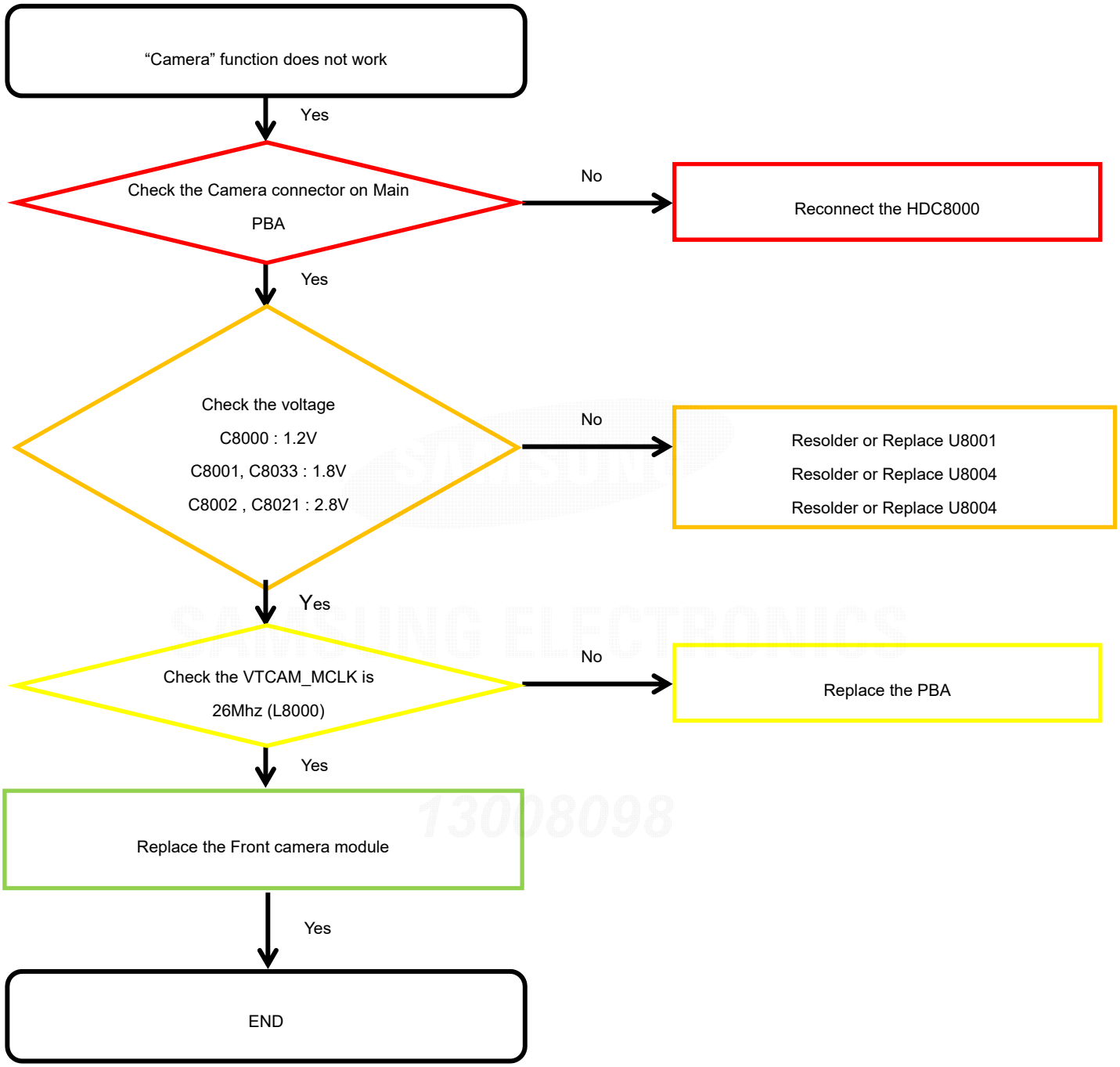
8-4-16. 5M CAMERA



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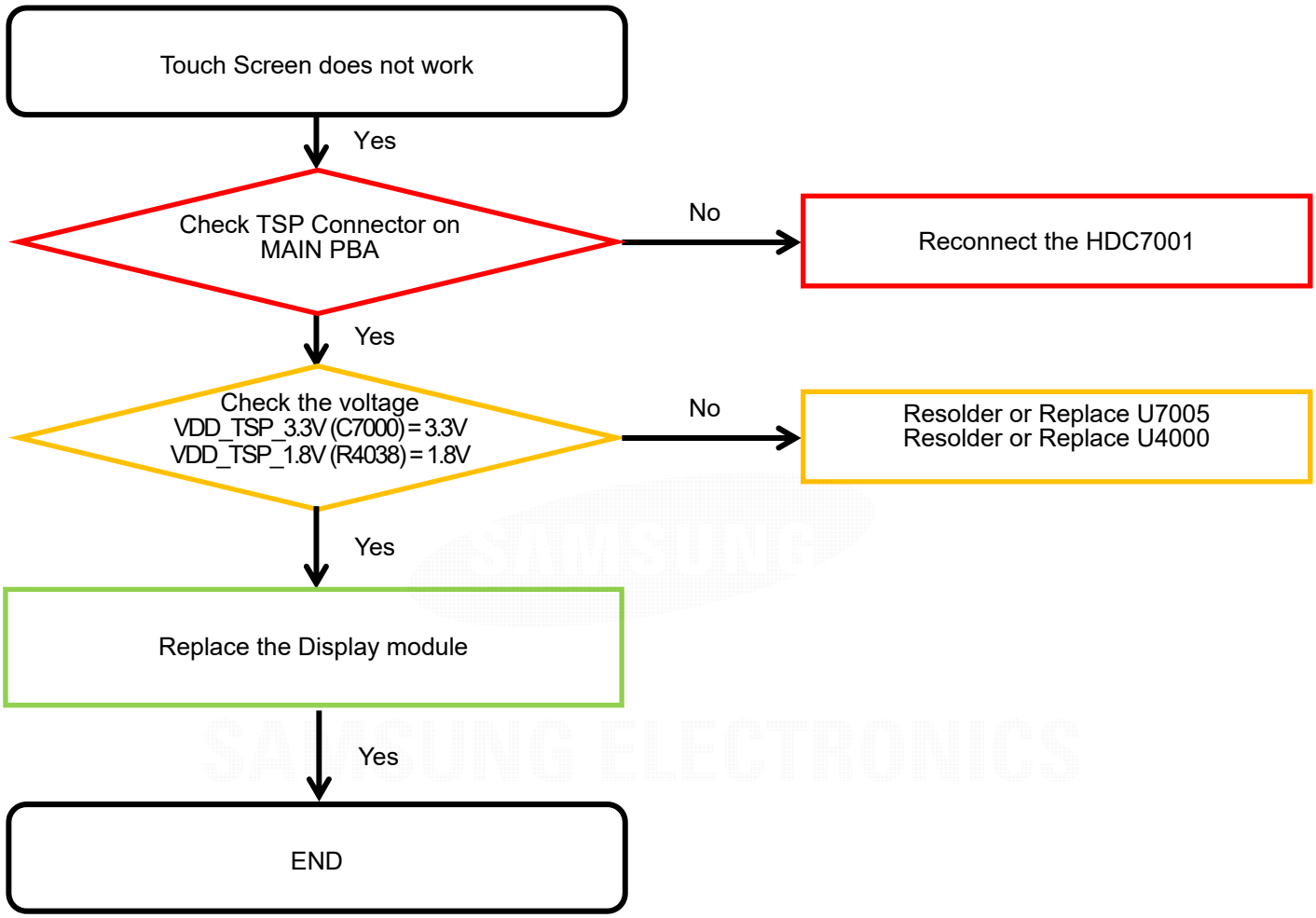
8-4-17. TSP



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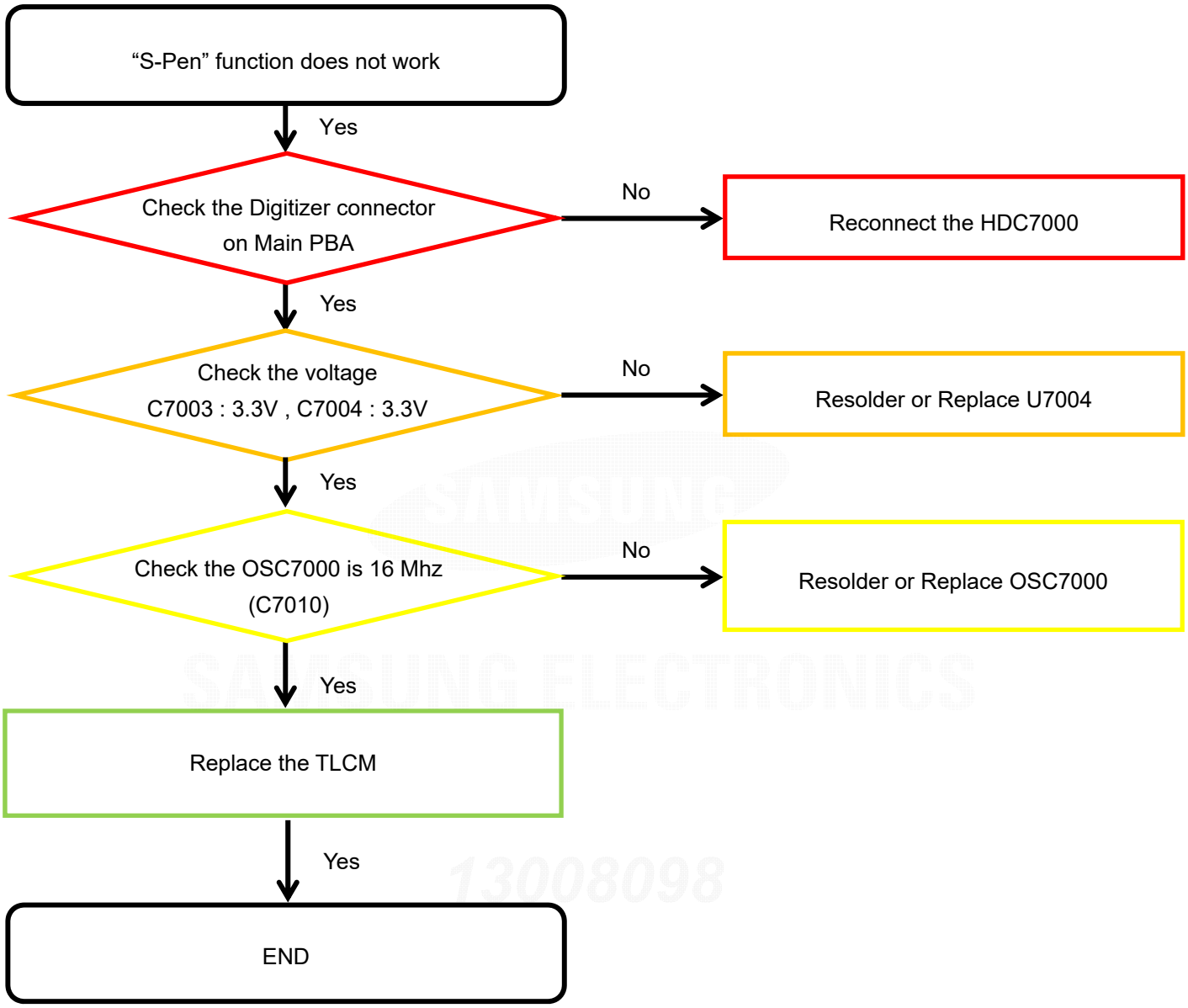
8-4-18. S-PEN



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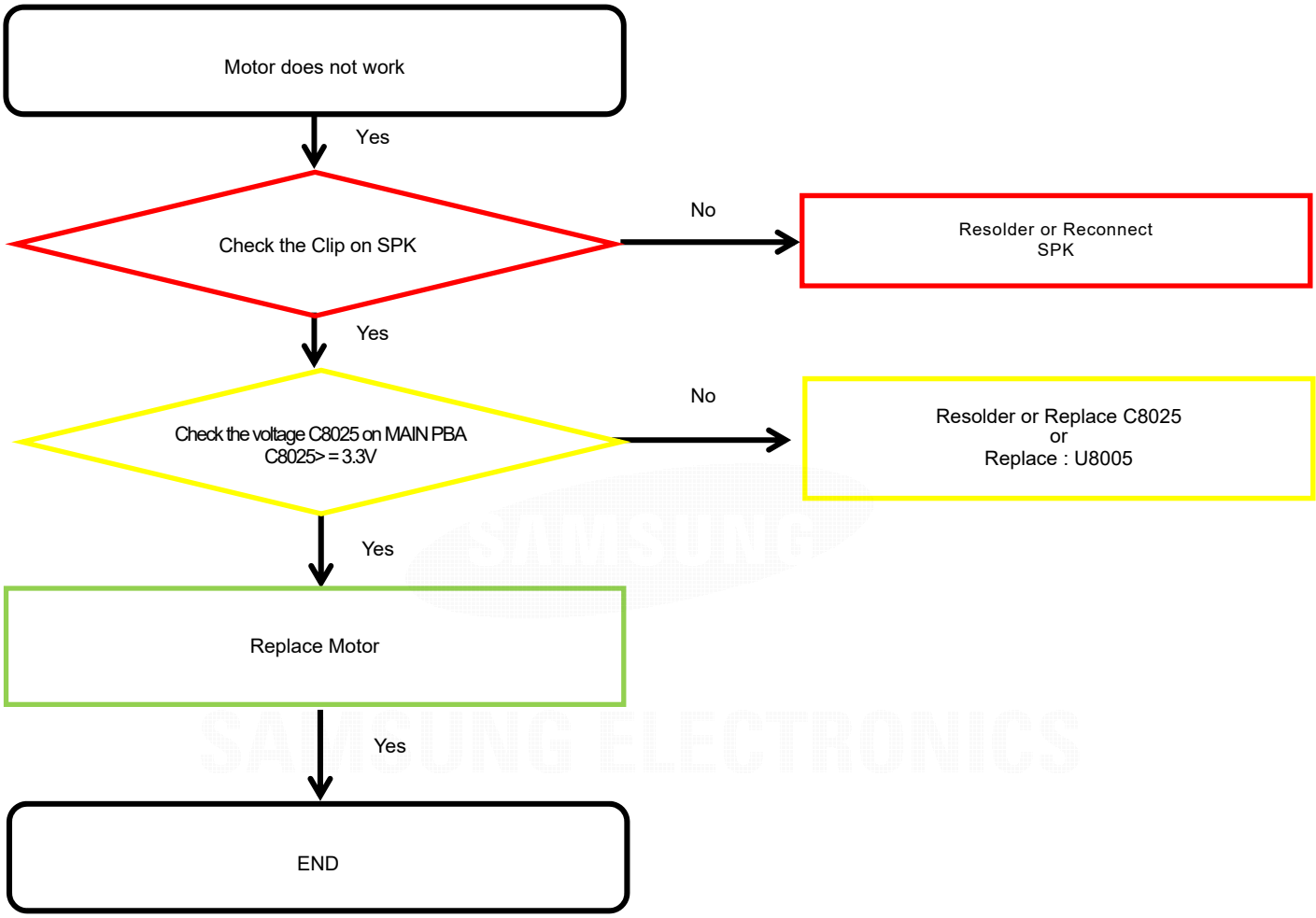
8-4-19. Motor [SM-P205]



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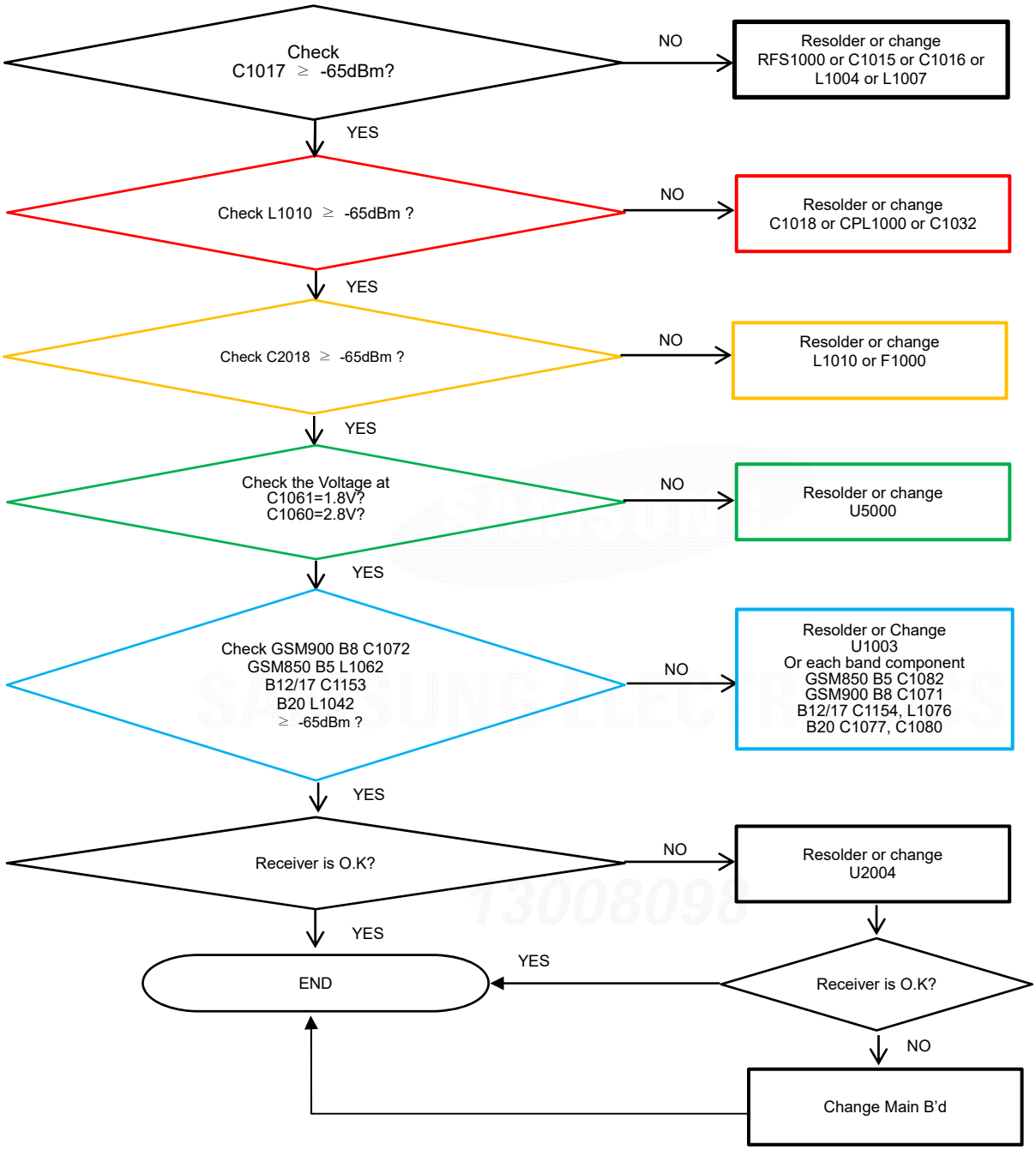
8-4-20. GSM 850/900, WCDMA B5/8, LTE B5/8/12/17/20/28 Rx [SM-P205]



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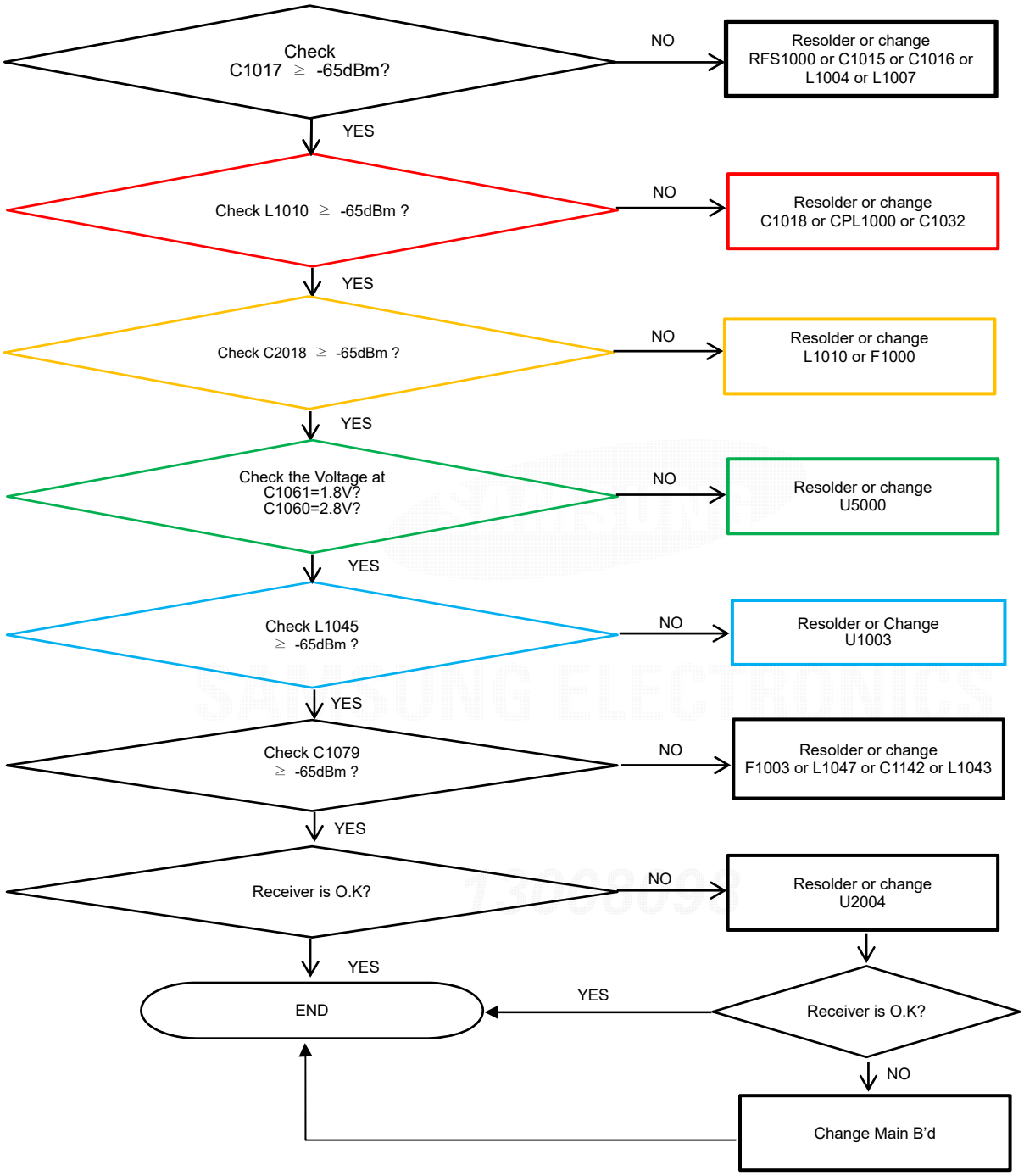
8-4-21. LTE B28 Rx [SM-P205]



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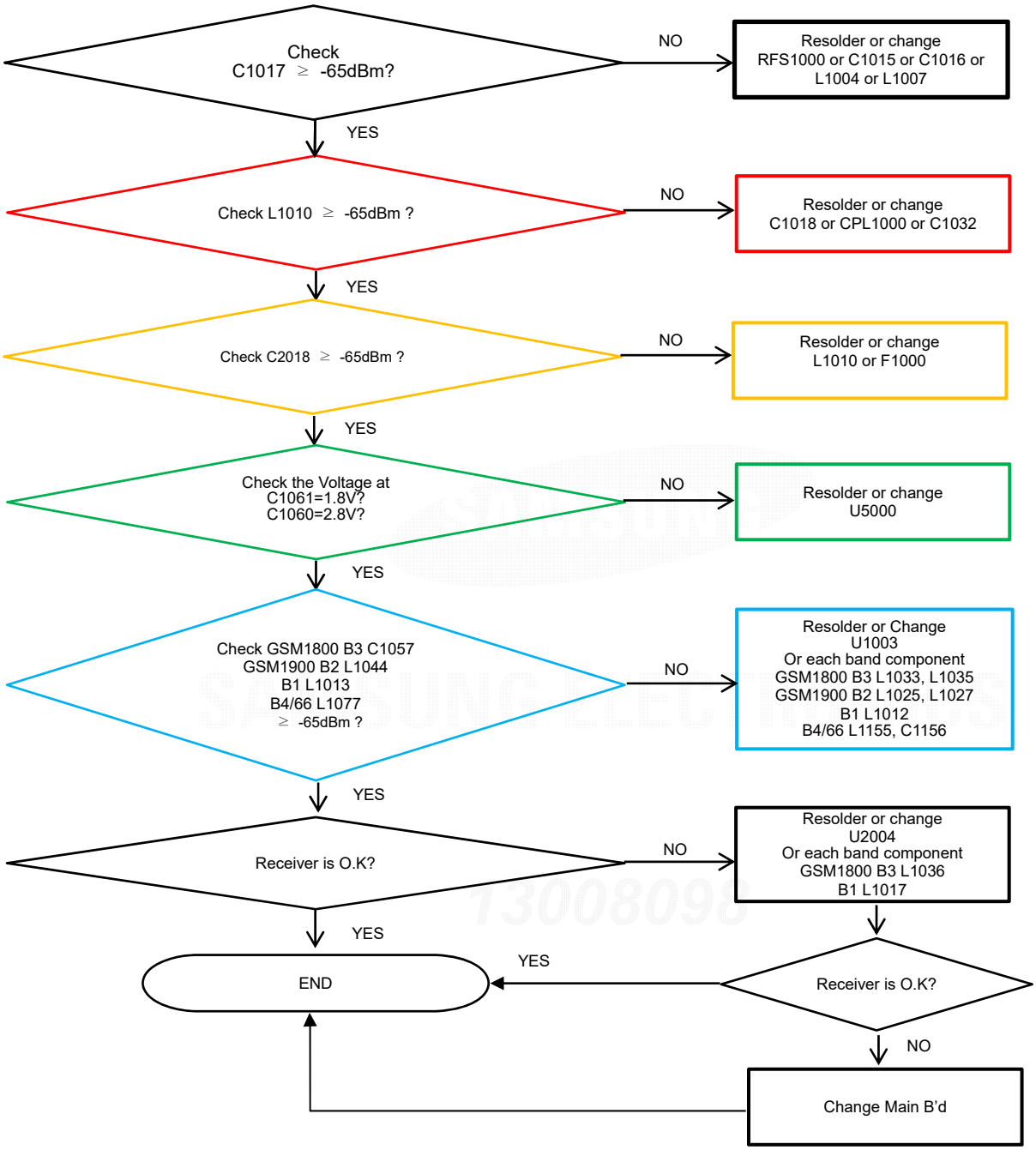
8-4-22. GSM 1800/1900, WCDMA B1/2/4, LTE B1/2/3/4/66 Rx [SM-P205]



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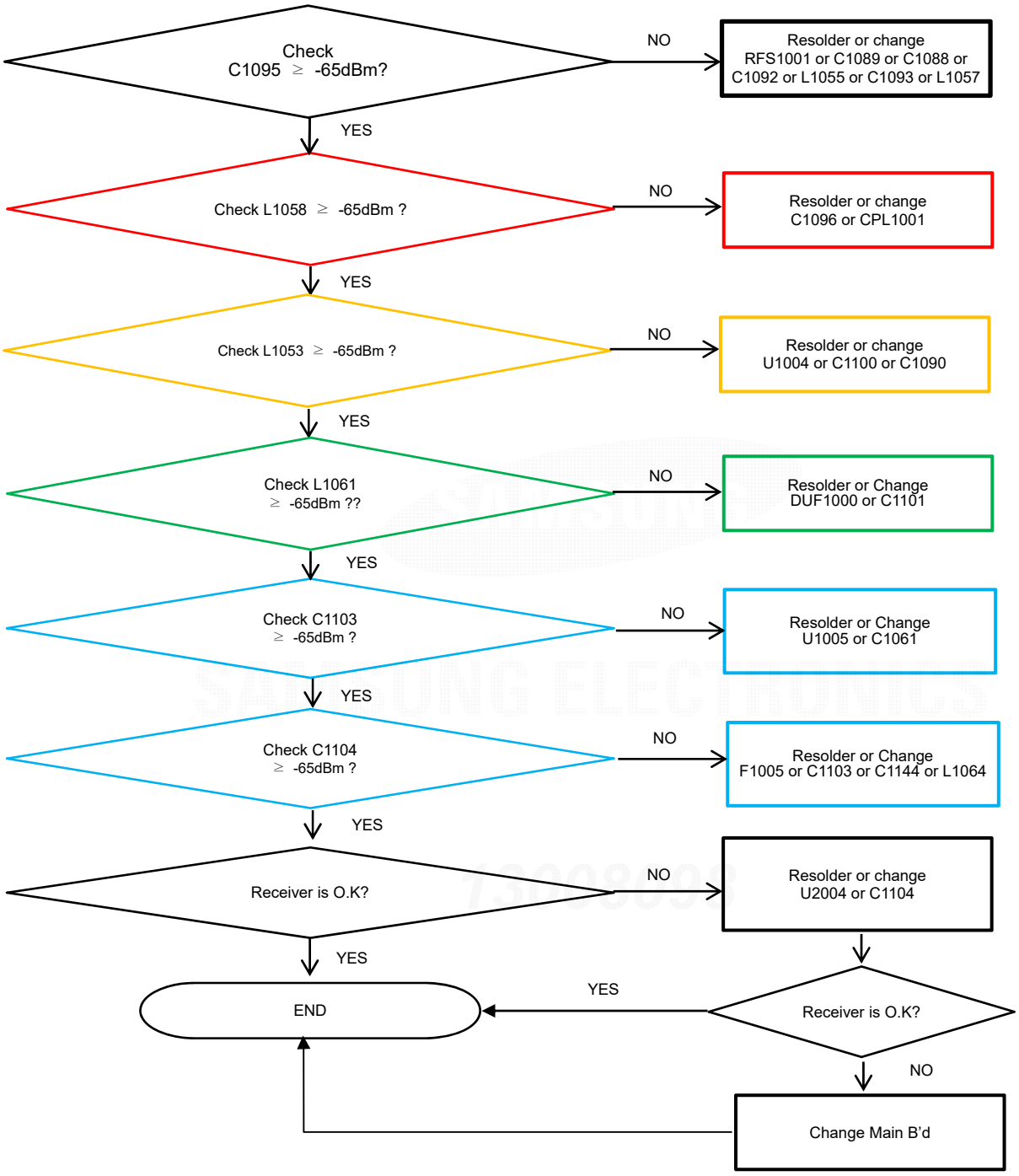
8-4-23. LTE B7 Rx [SM-P205]



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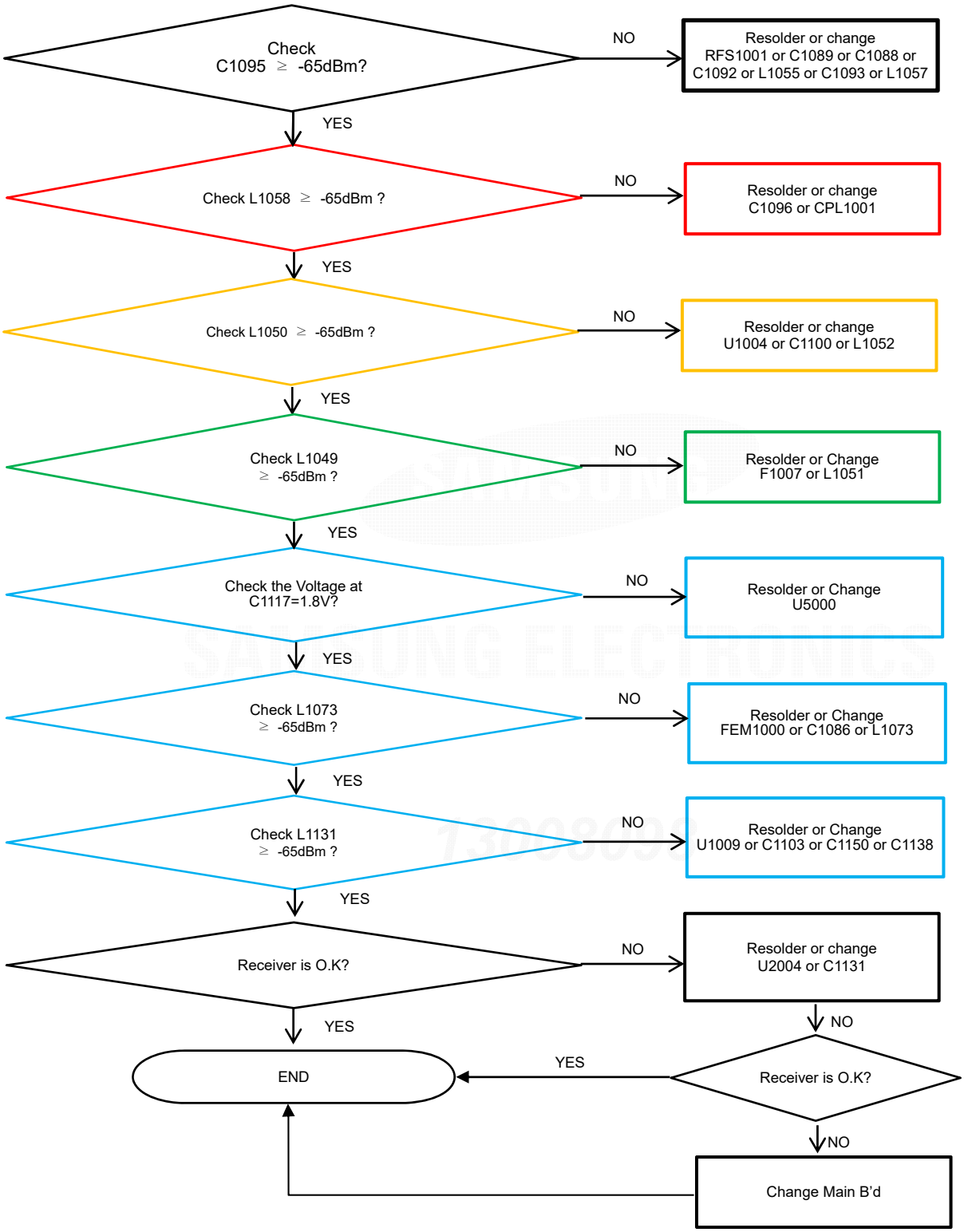
8-4-24. LTE B38/41 Rx [SM-P205]



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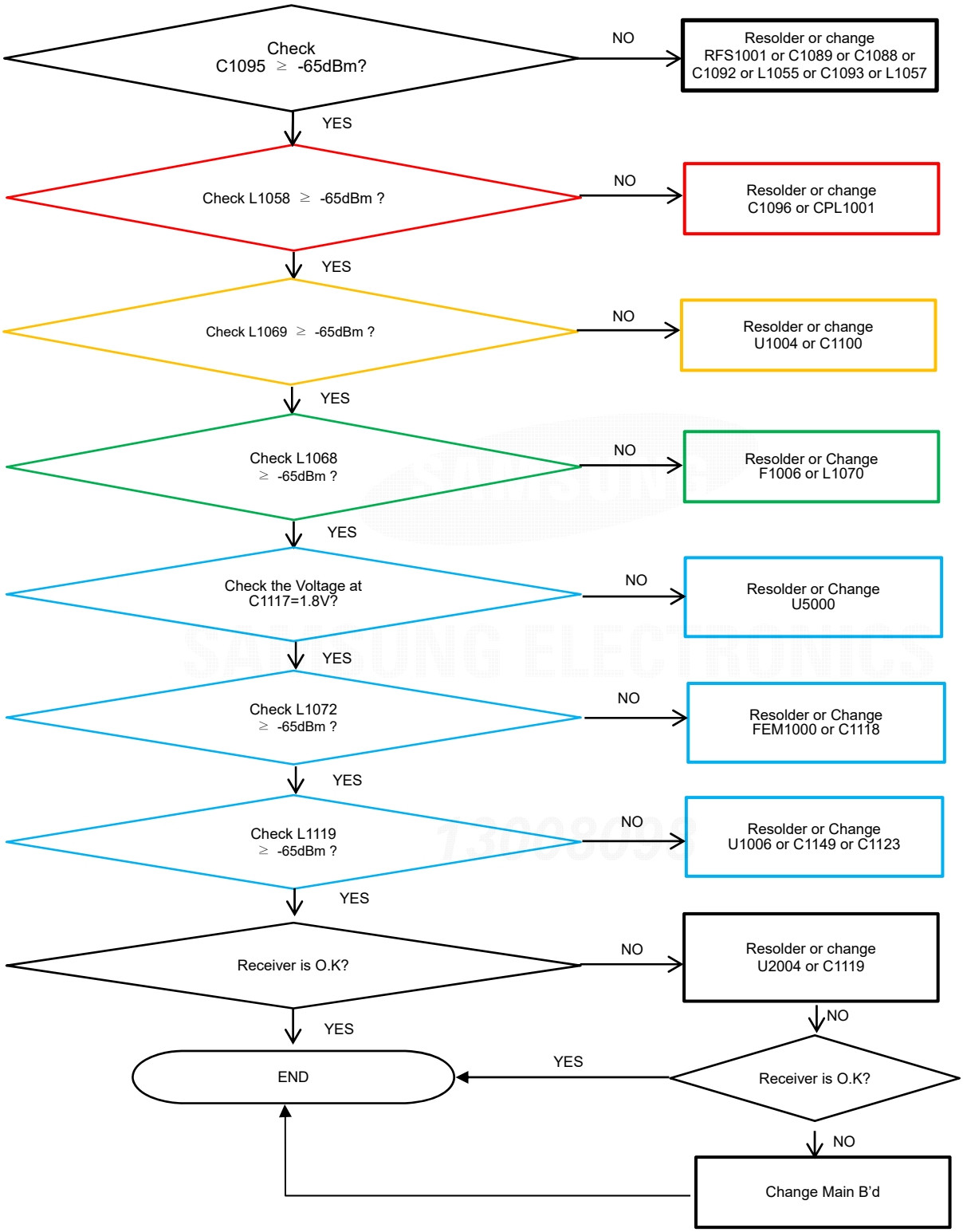
8-4-25. LTE B40 Rx [SM-P205]



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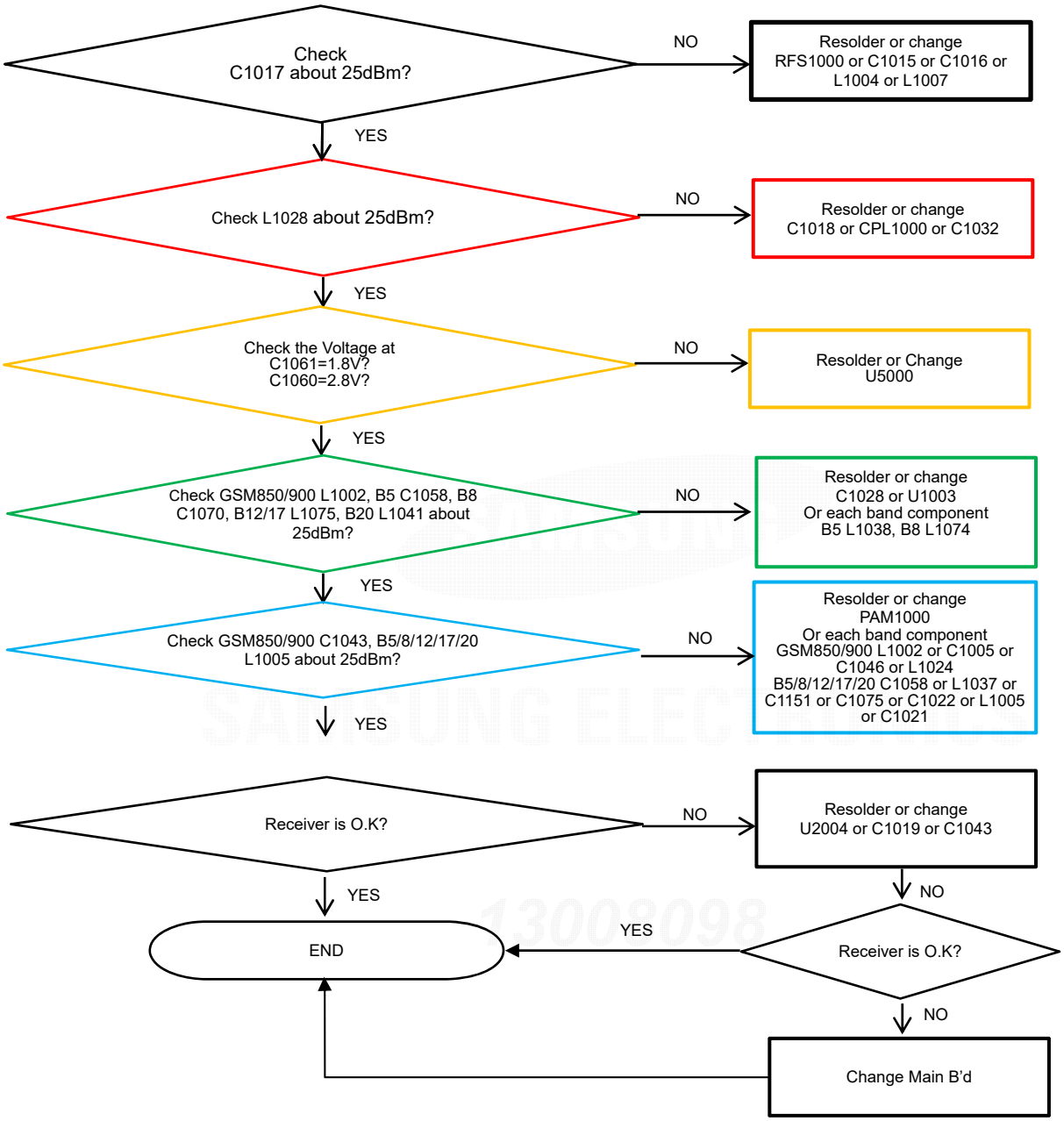
8-4-26. GSM 850/900, WCDMA B5/8, LTE B5/8/12/17/20 Tx [SM-P205]



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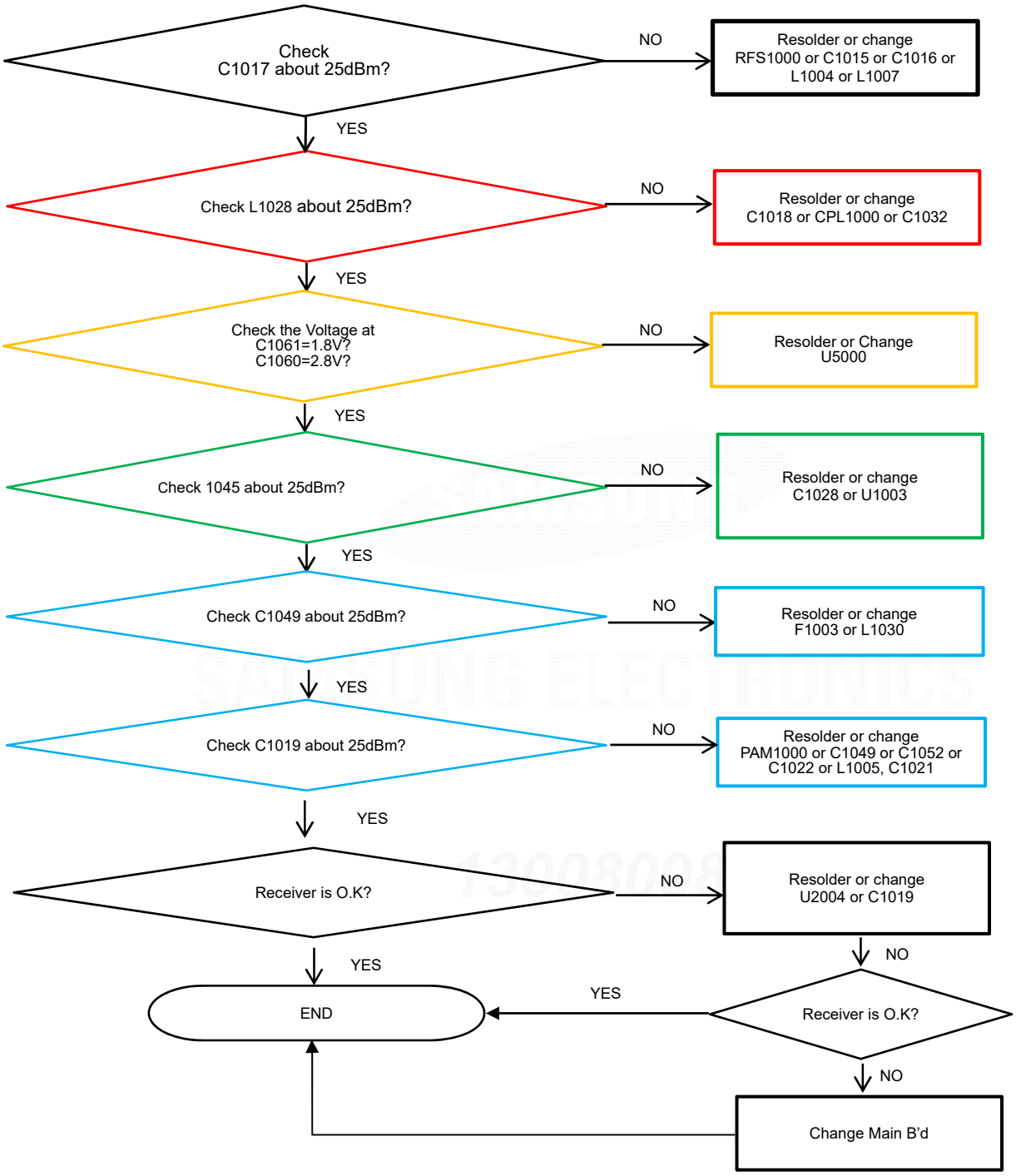
8-4-27. LTE B28 Tx [SM-P205]



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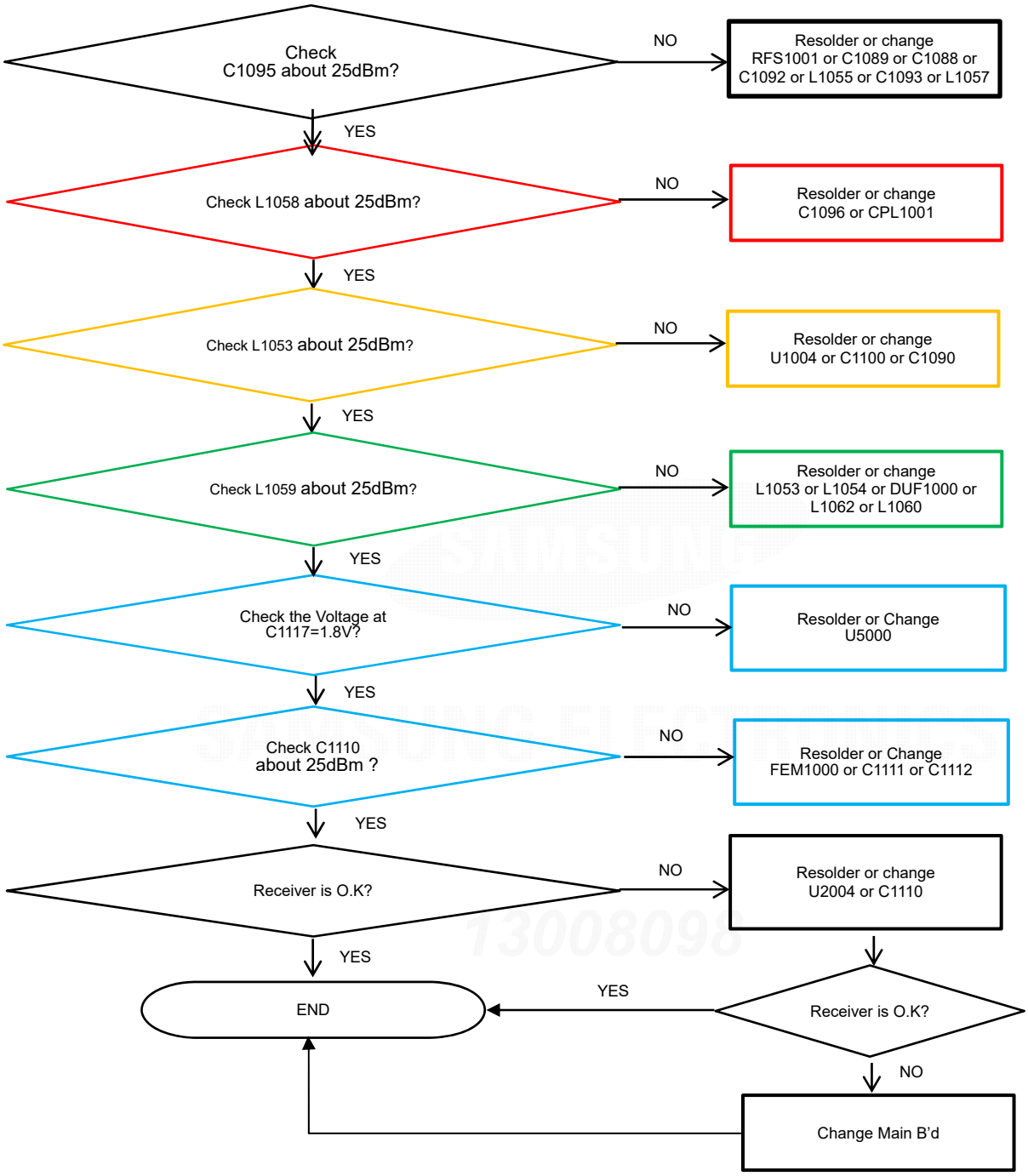
8-4-28. LTE B7 Tx [SM-P205]



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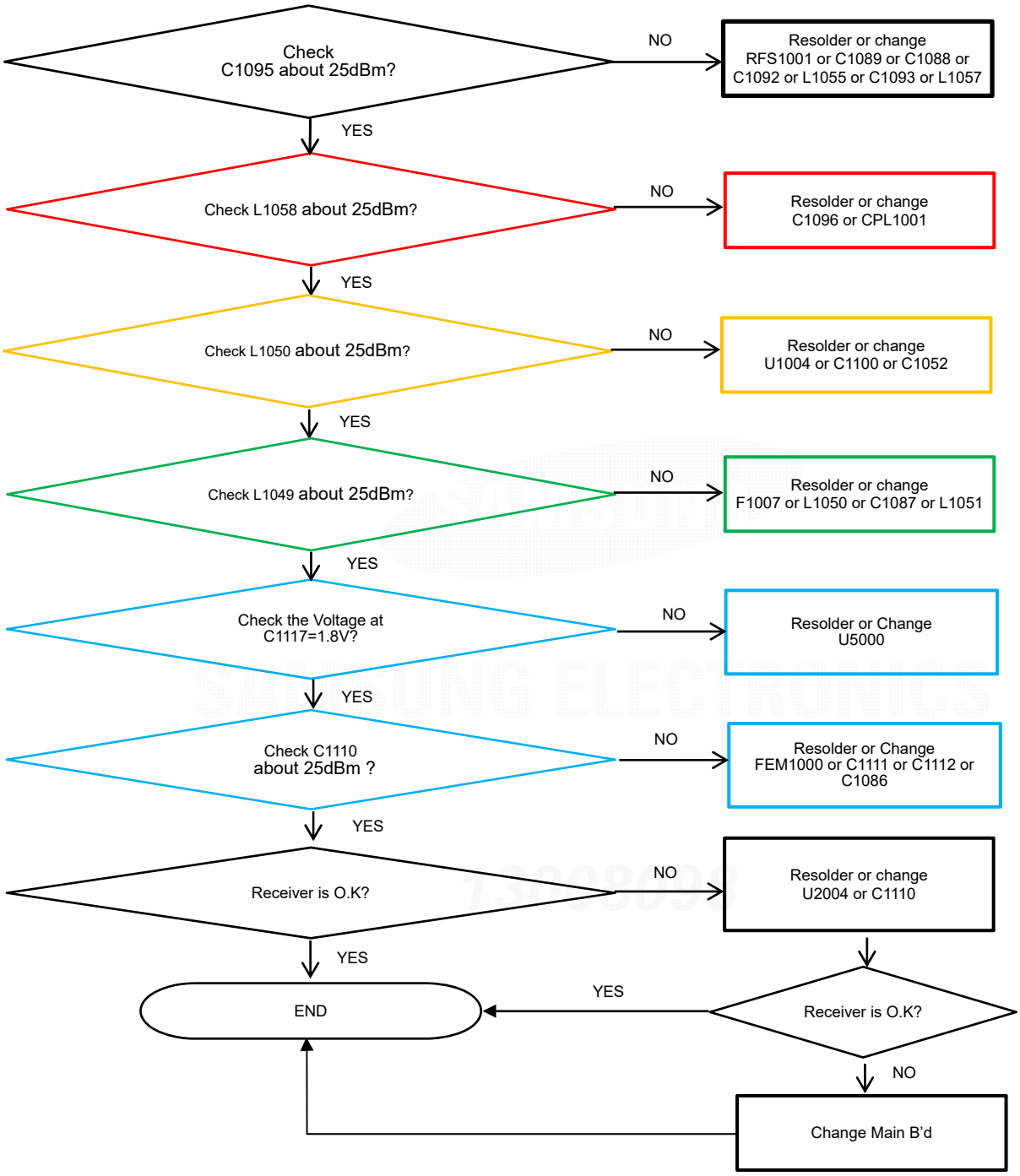
8-4-29. LTE B38/40 Tx [SM-P205]



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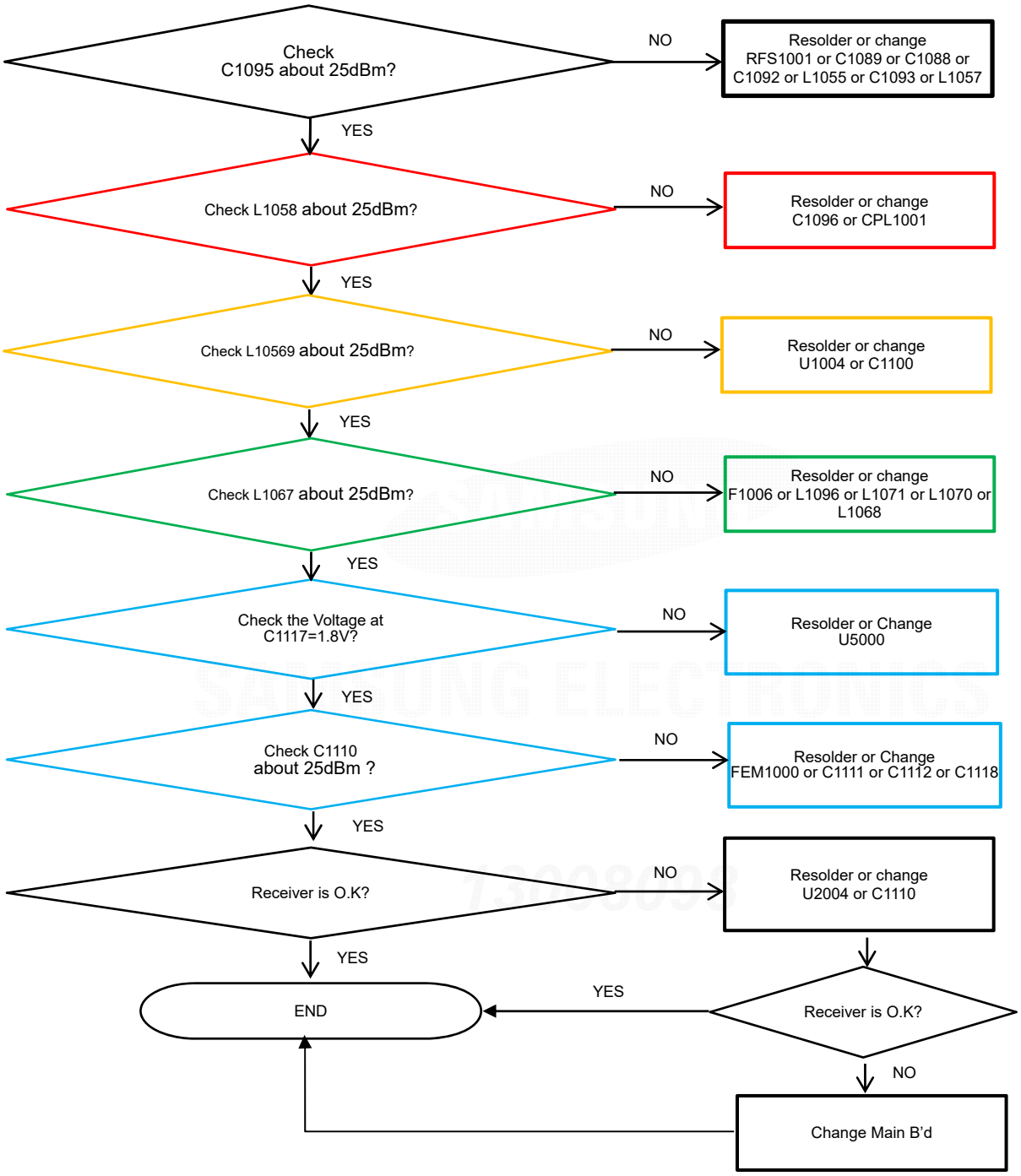
8-4-30. LTE B41 Tx [SM-P205]



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8. Level 3 Repair

8-5. Service Schematics

- NC Point(Top View)

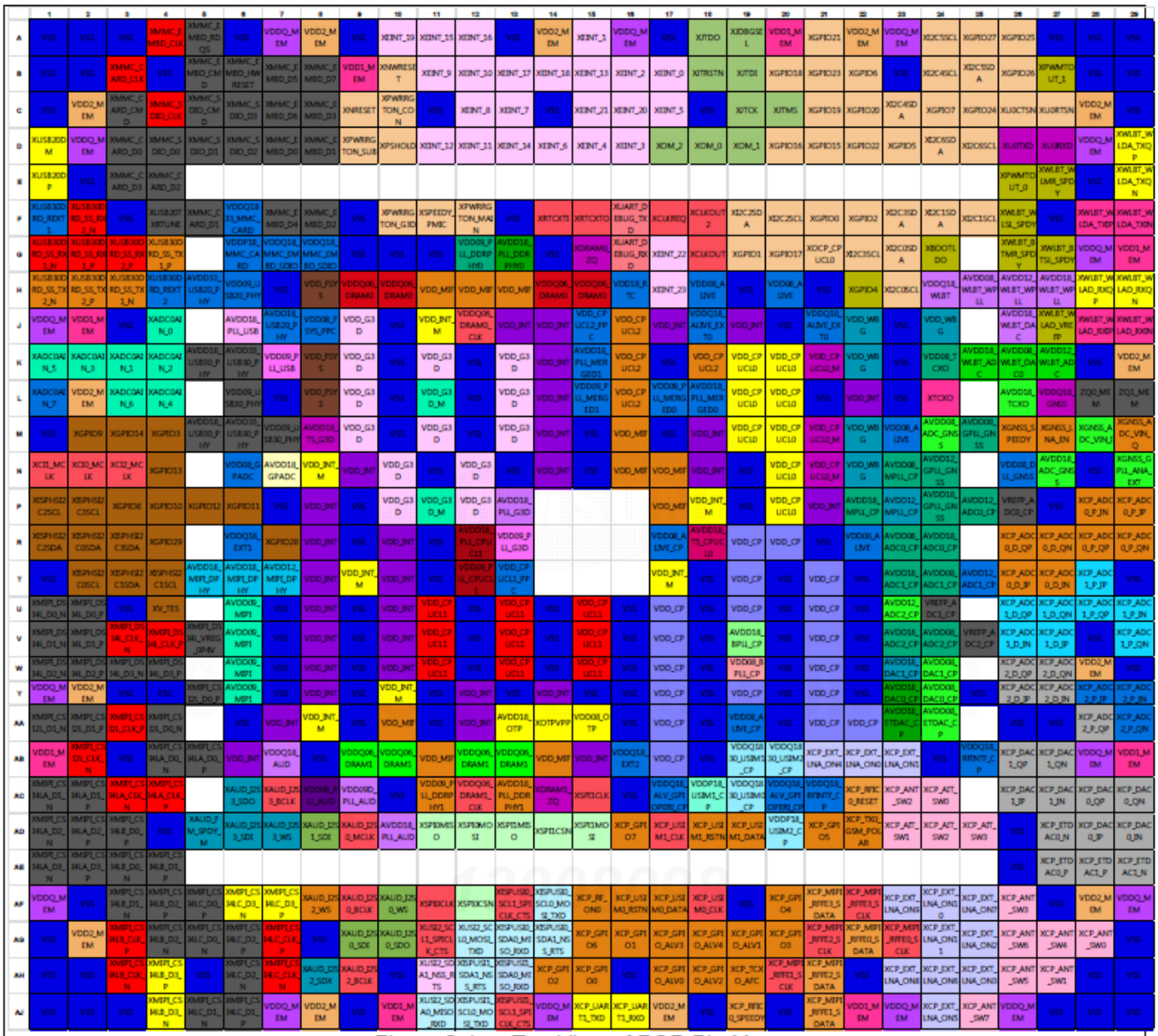

Figure 2-1 Top View of POP Pin Map

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