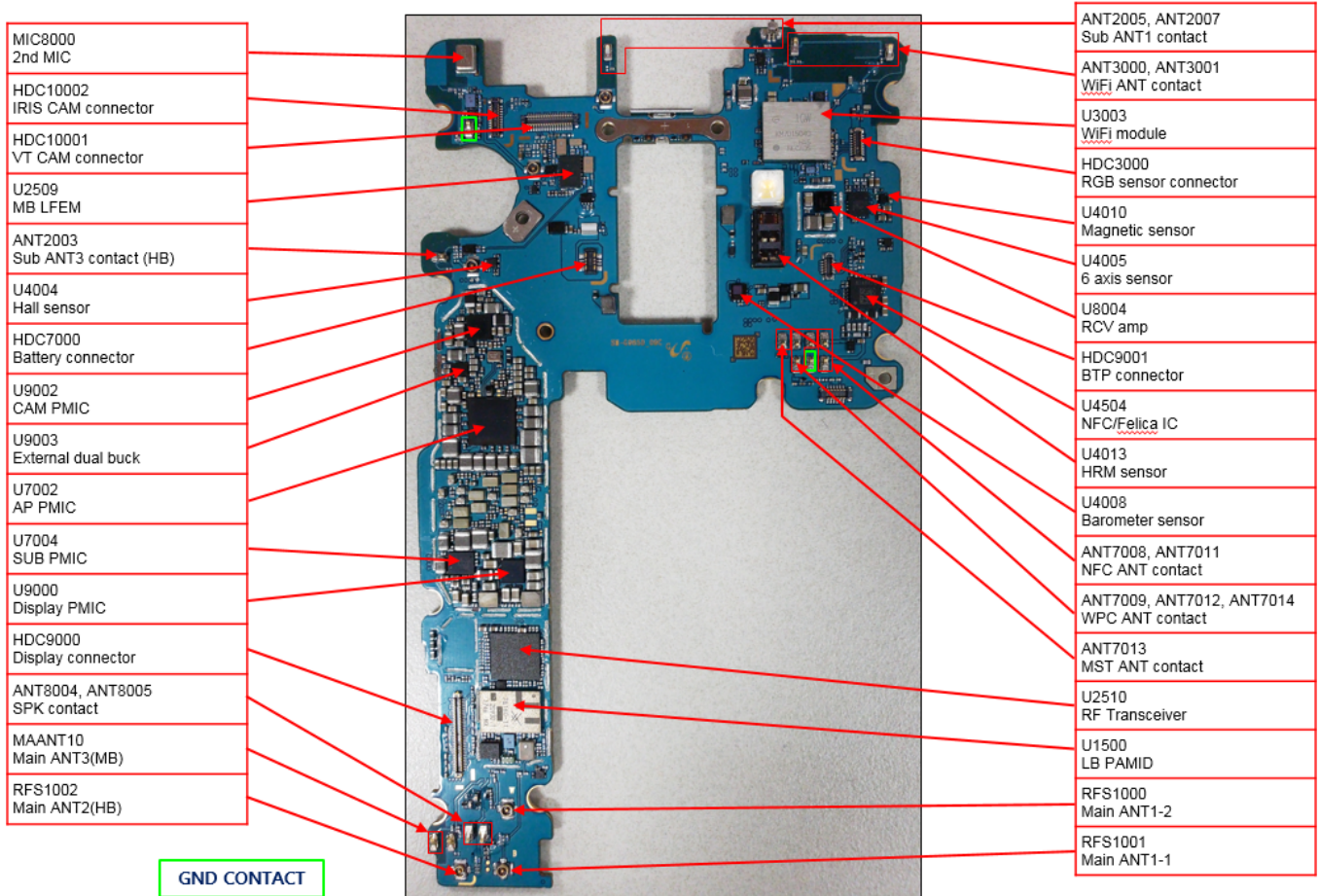


8. Level 3 Repair

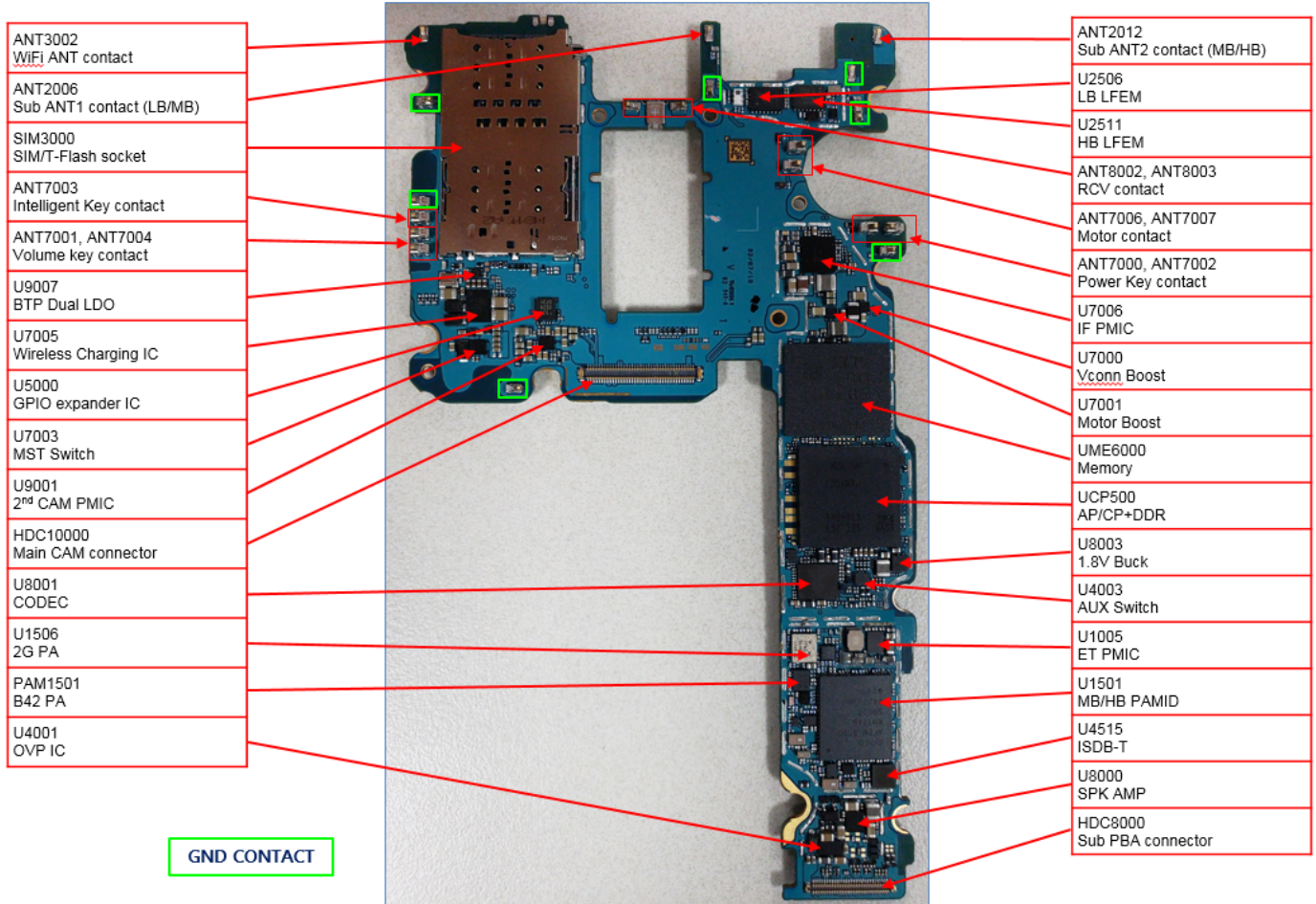
8-1. Components Layout

PBA (Rear side)



8. Level 3 Repair

PBA (Front side)



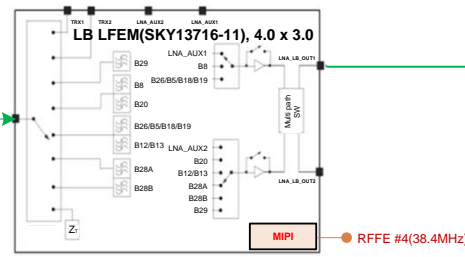


SM-G965D_REV0.9C_RF Blockdiagram

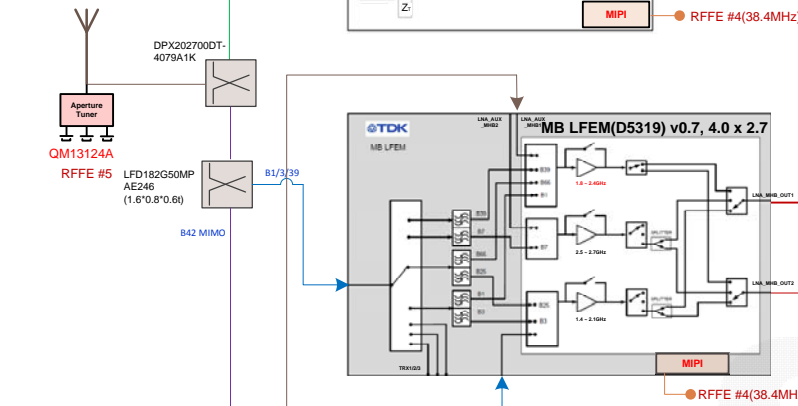
لينك كانال : schimat @ics

RFFE #2
ETDAC_CH_0
ET Modulator
QET4100
(for OMH LPAMiD)

SUB ANT 1
(lb/mb/uhb)
lb : B5/12/13/17/19/28
mb : B1/3/39
uhb : B42

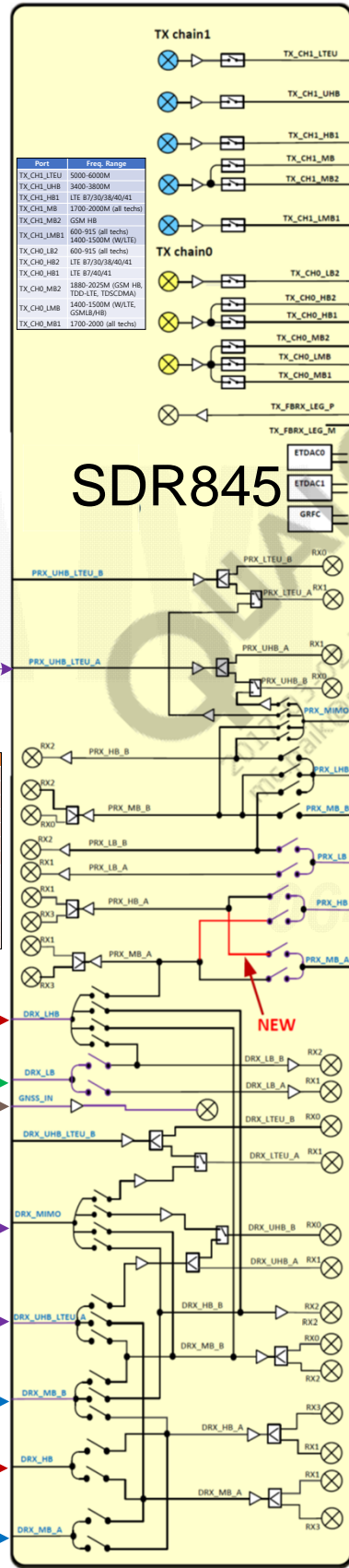
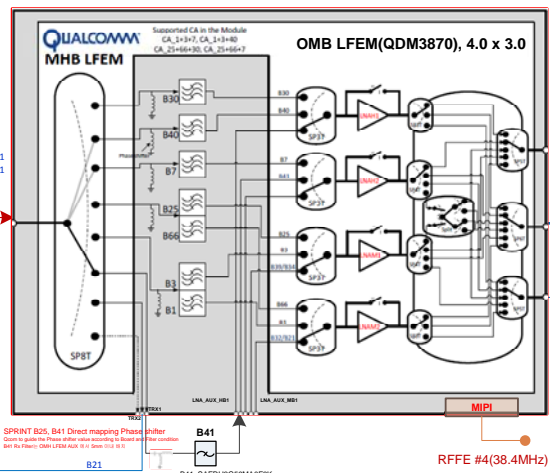


	MSM8998+WTR5975	SDM845+SDR845
RFIC VCU # for Rx	SDR845	SDR845
RFIC VCU # for Tx	SDR845	SDR845
Layer	32	32
MAX CA BW	30MHz	30MHz
MAX Components Carrier # of CA	5	5
MAX bands # of Inter Bands CA	4	4



SUB ANT 3
(hb)
hb : B41

SUB ANT 2
(mb/hb/uhb)
mb : B1/3/4/21 (GPS)
hb : B7/38/40/41
uhb : B42



VCO	Port	Freq. Range
LB_A		600-960M
MB_A		1400-2400M
HB_A		2100-2690M
LH_A		3400-3800M
LTEU_A		5000-6000M
MB_B		1400-2400M
HB_B		2100-2690M
MB		1800-2690M
LH_B		3400-3800M
LTEU_B		5000-6000M
LB_B		600-960M
MB		1800-2690M
HB		2100-2690M

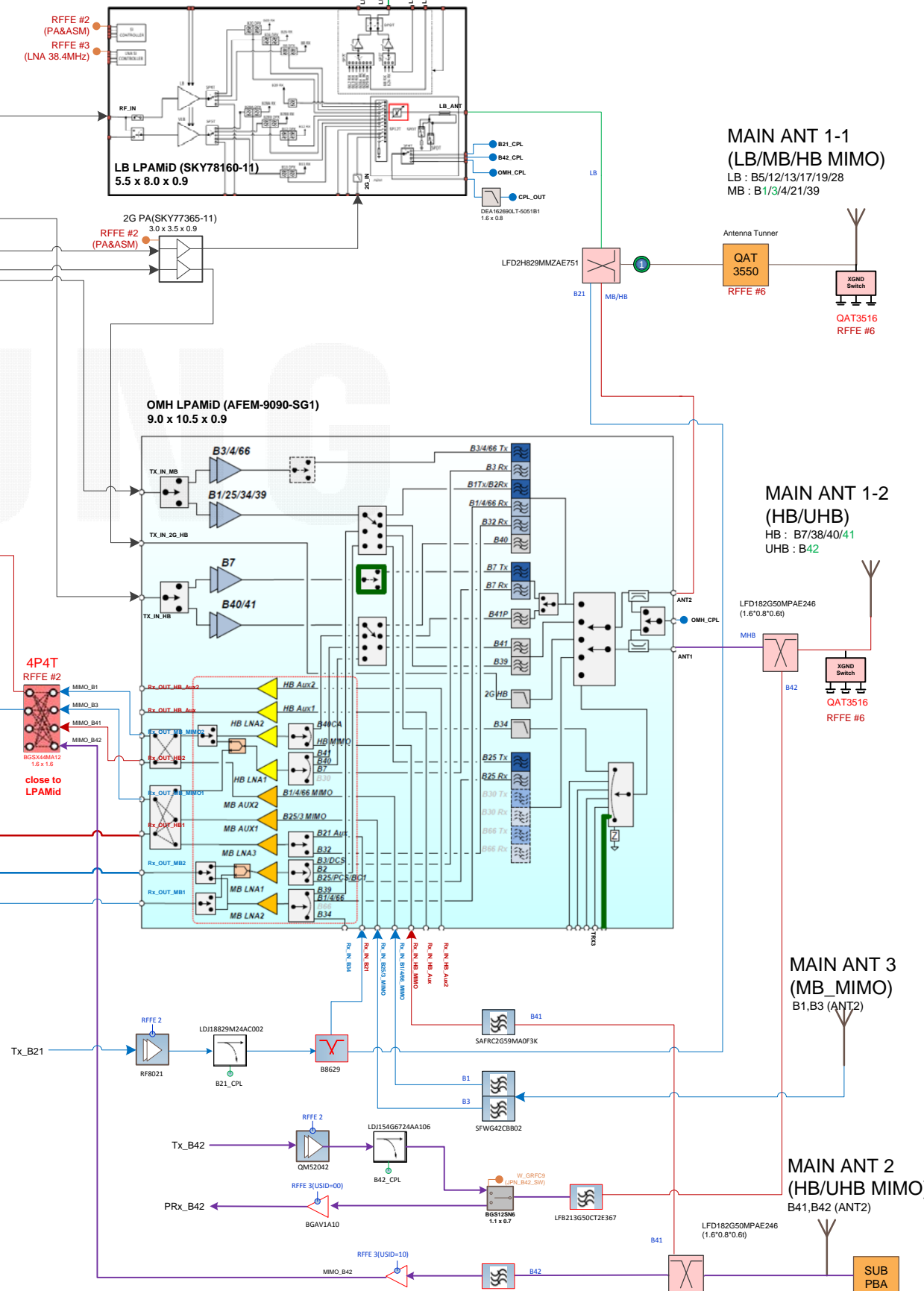
VCO	Port	Freq. Range
LB_A		600-960M
MB_A		1400-2400M
HB_A		2100-2690M
LH_A		3400-3800M
LTEU_A		5000-6000M
MB_B		1400-2400M
HB_B		2100-2690M
MB		1800-2690M
LH_B		3400-3800M
LTEU_B		5000-6000M
LB_B		600-960M
MB		1800-2690M
HB		2100-2690M

[Splitting information]

1. B2/3/7/41: External Split

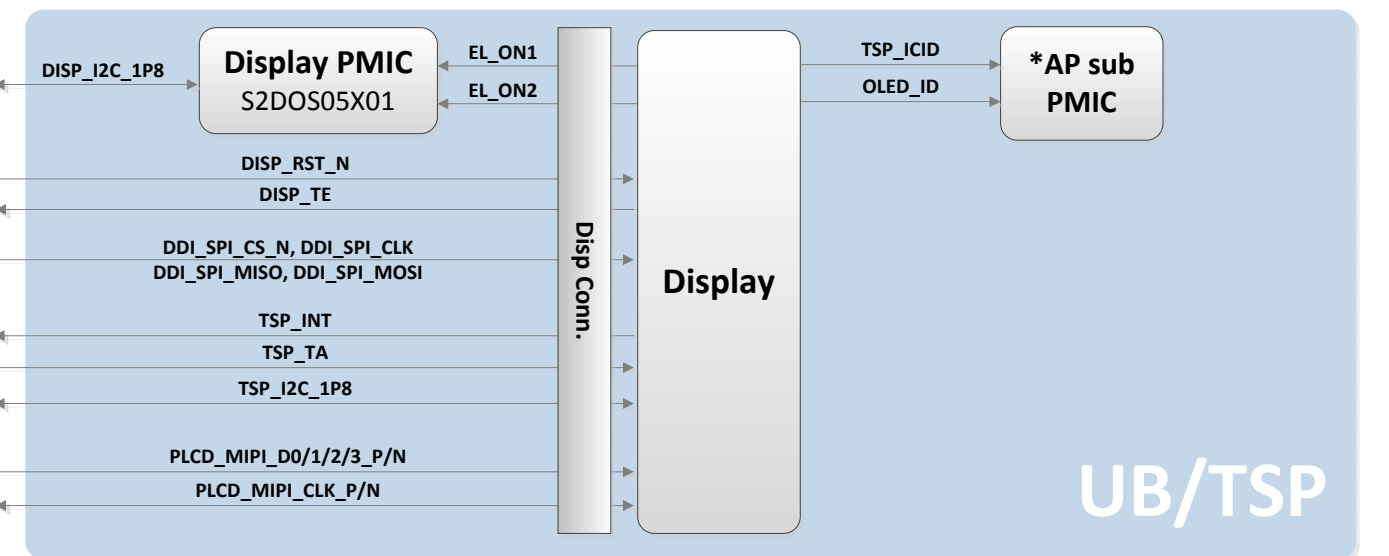
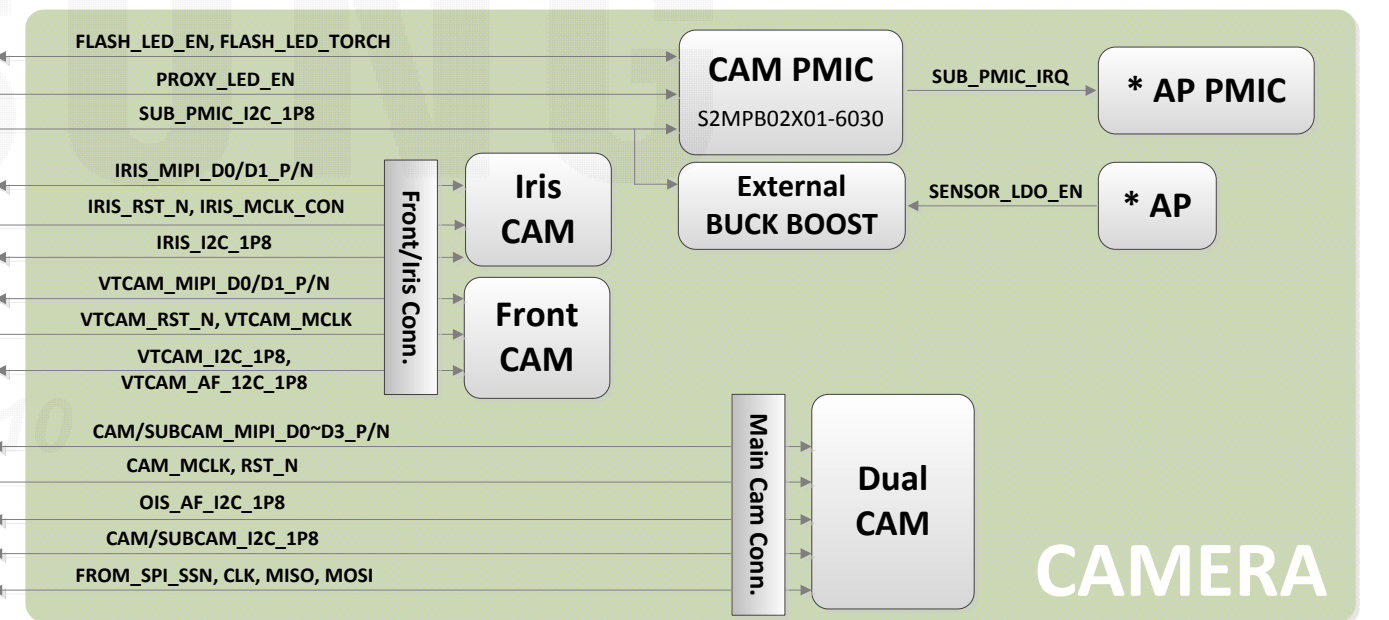
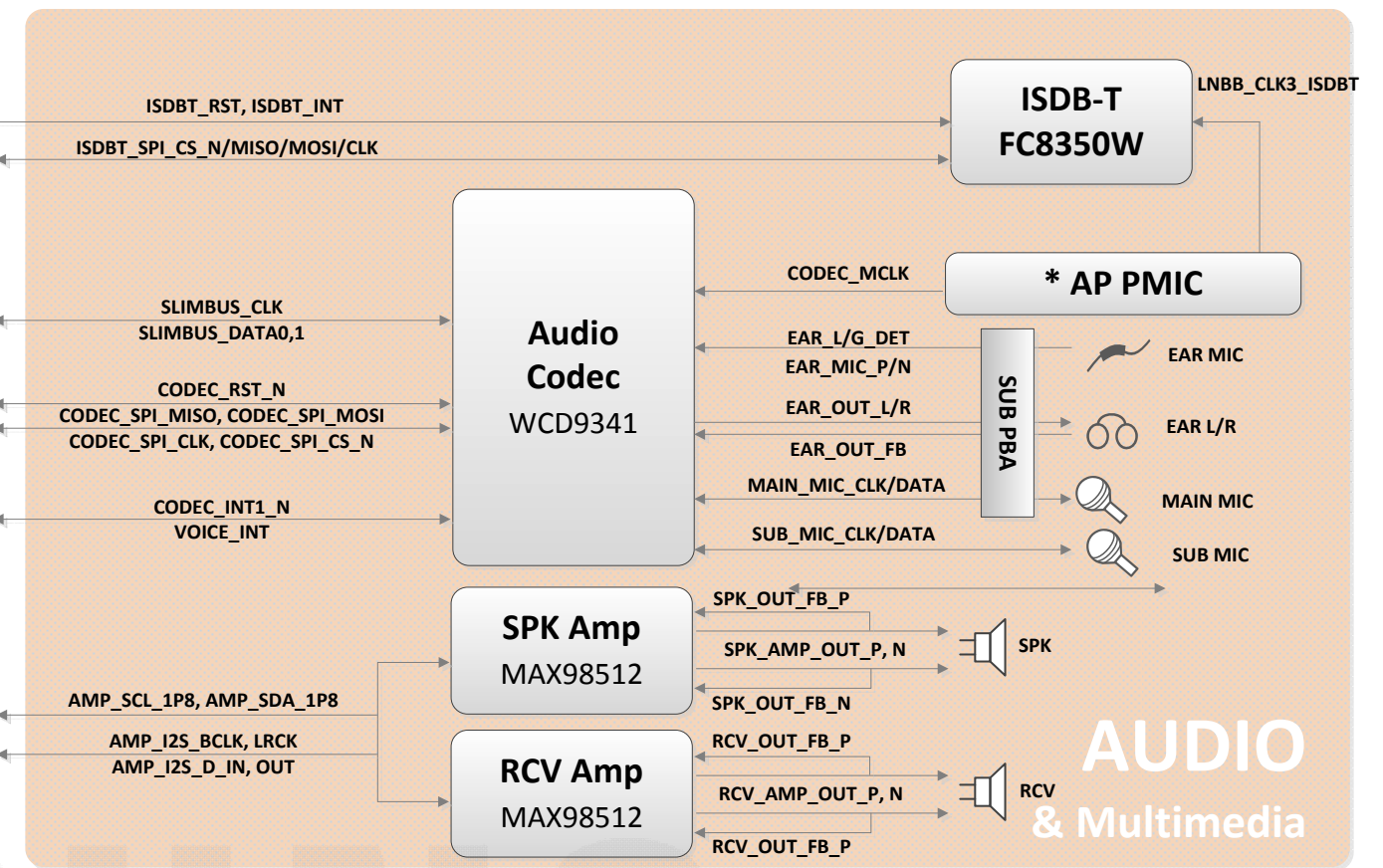
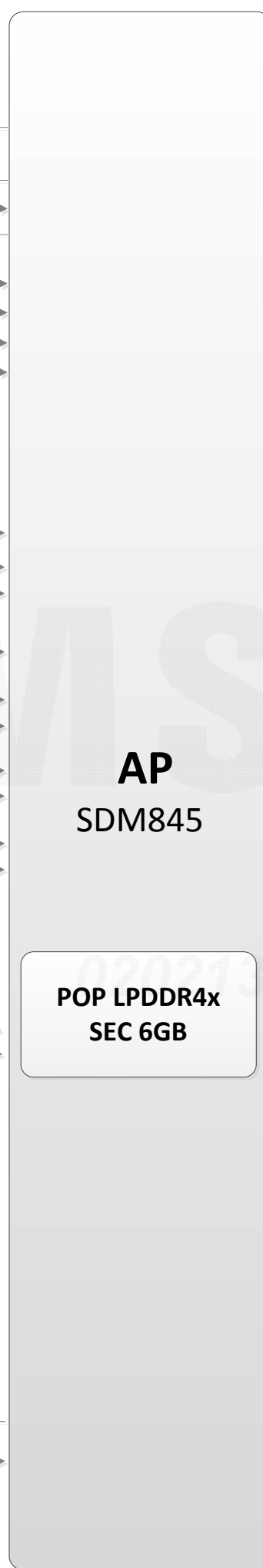
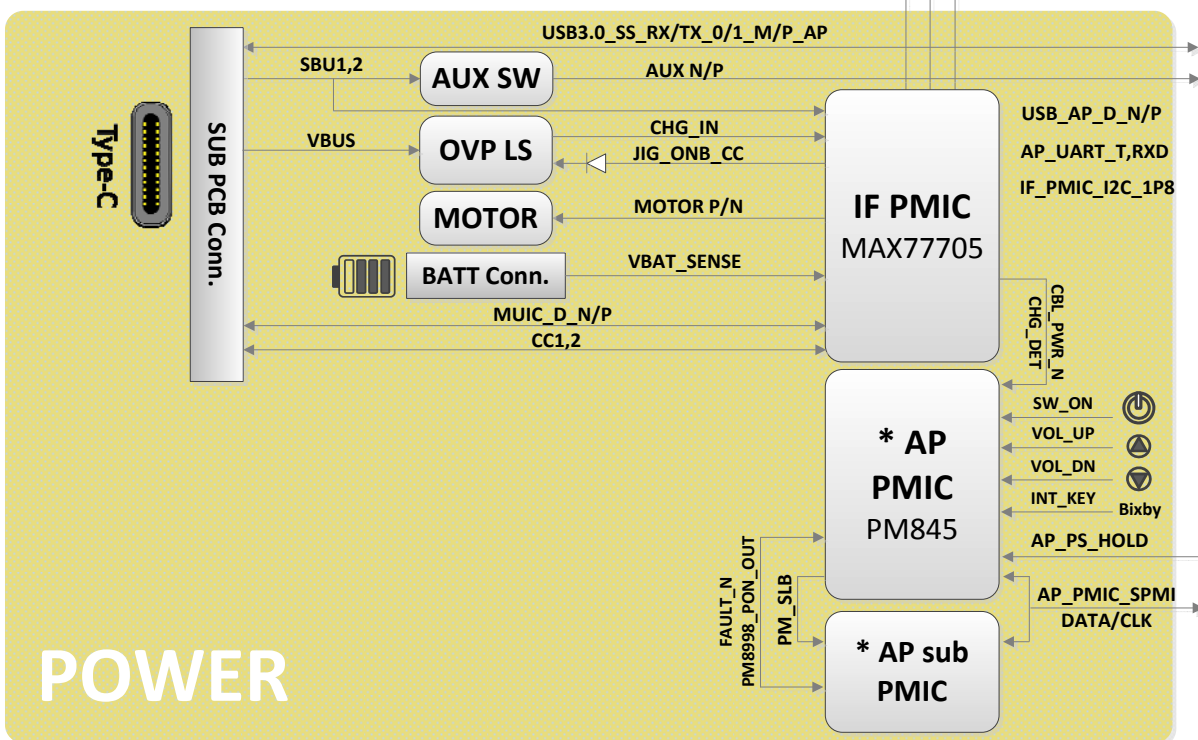
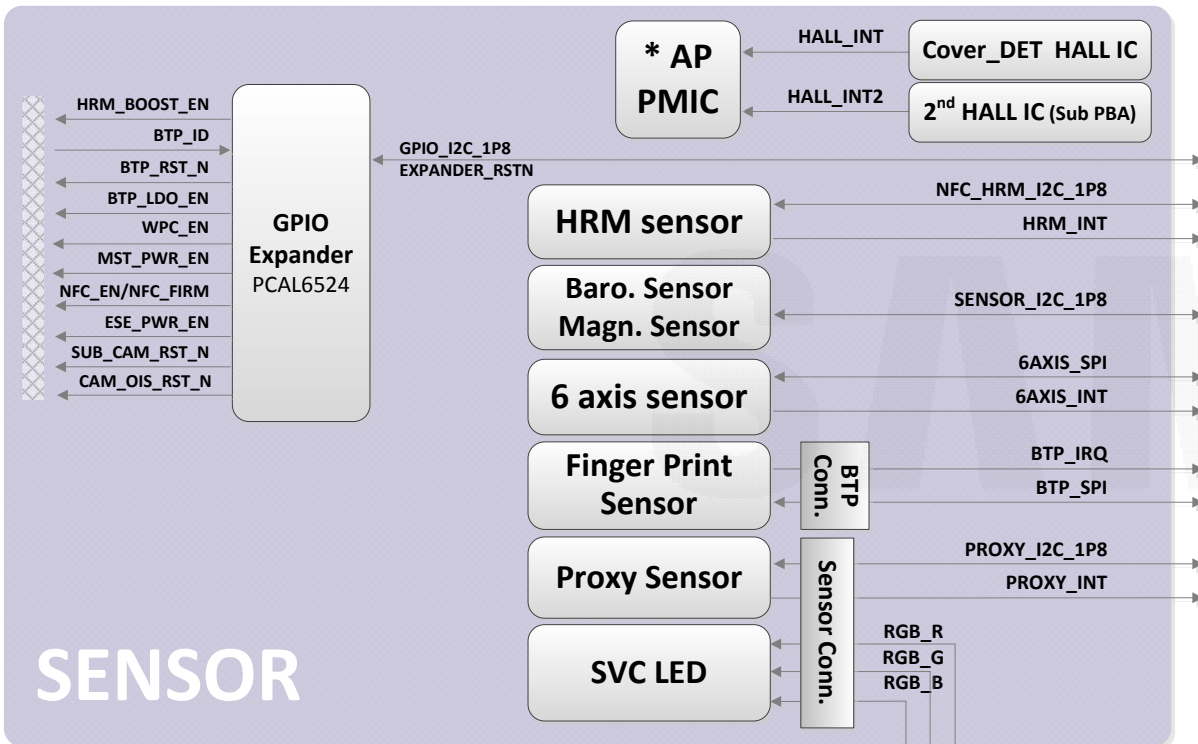
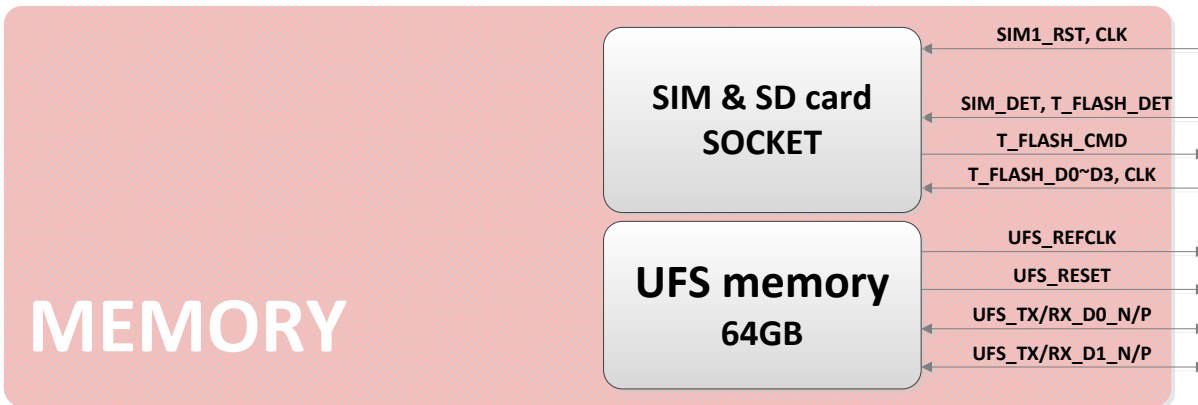
2. LTEU/LNA: SDR845

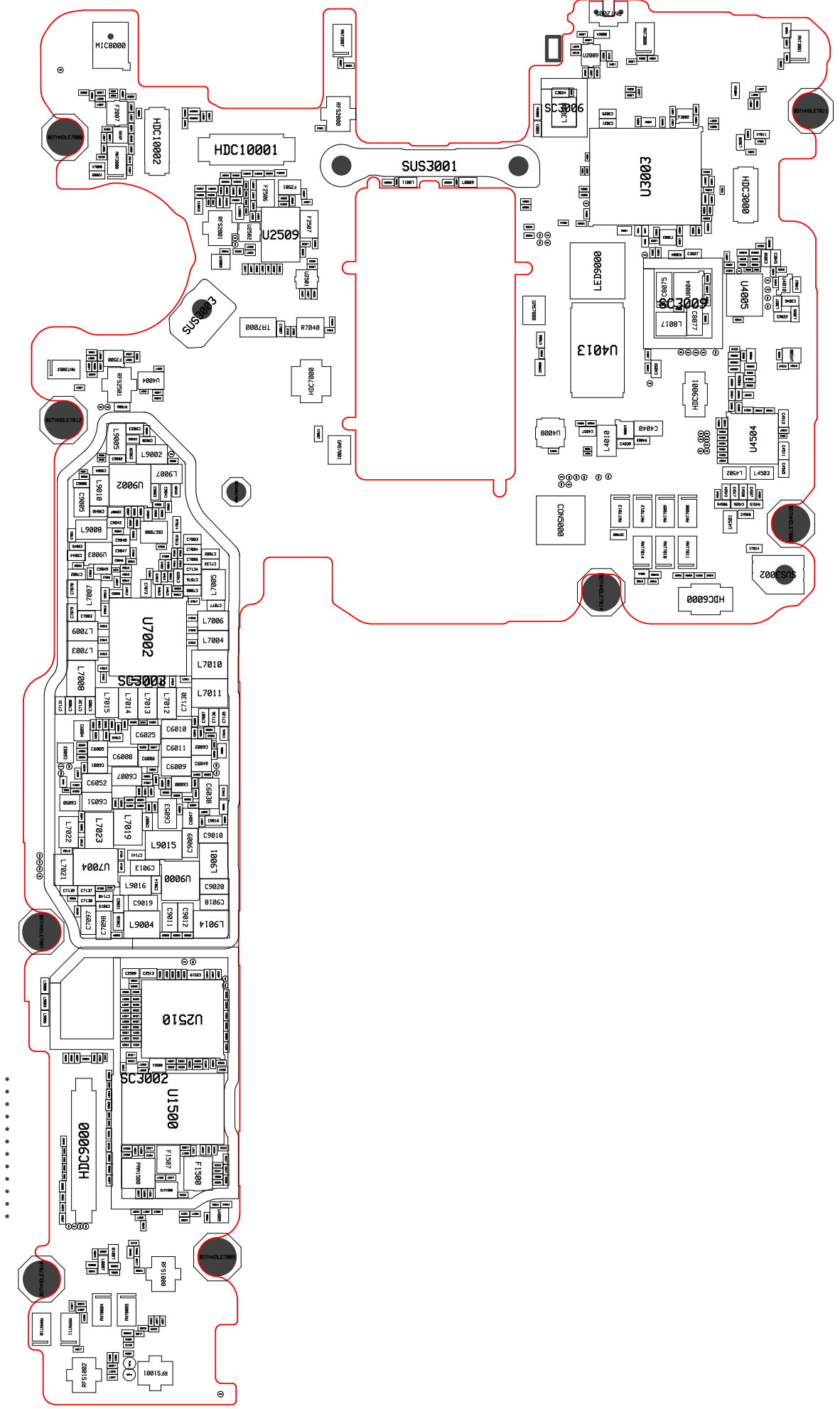
For B41, see band 11 definition from 3GPP TS 36.101. The isolation between the two B41 bands is not guaranteed by the SDR845.



SUB PBA



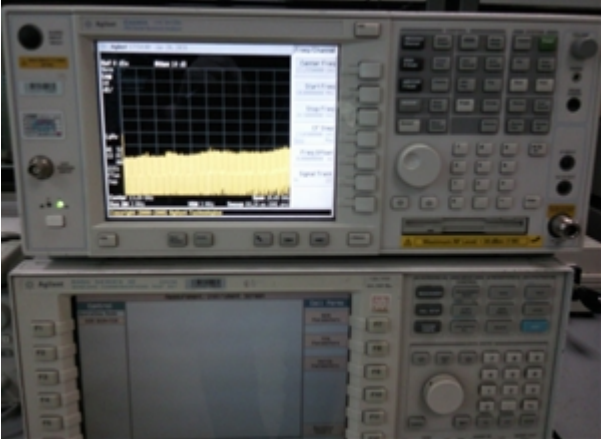
[SM-G965D] Logic Block Diagram





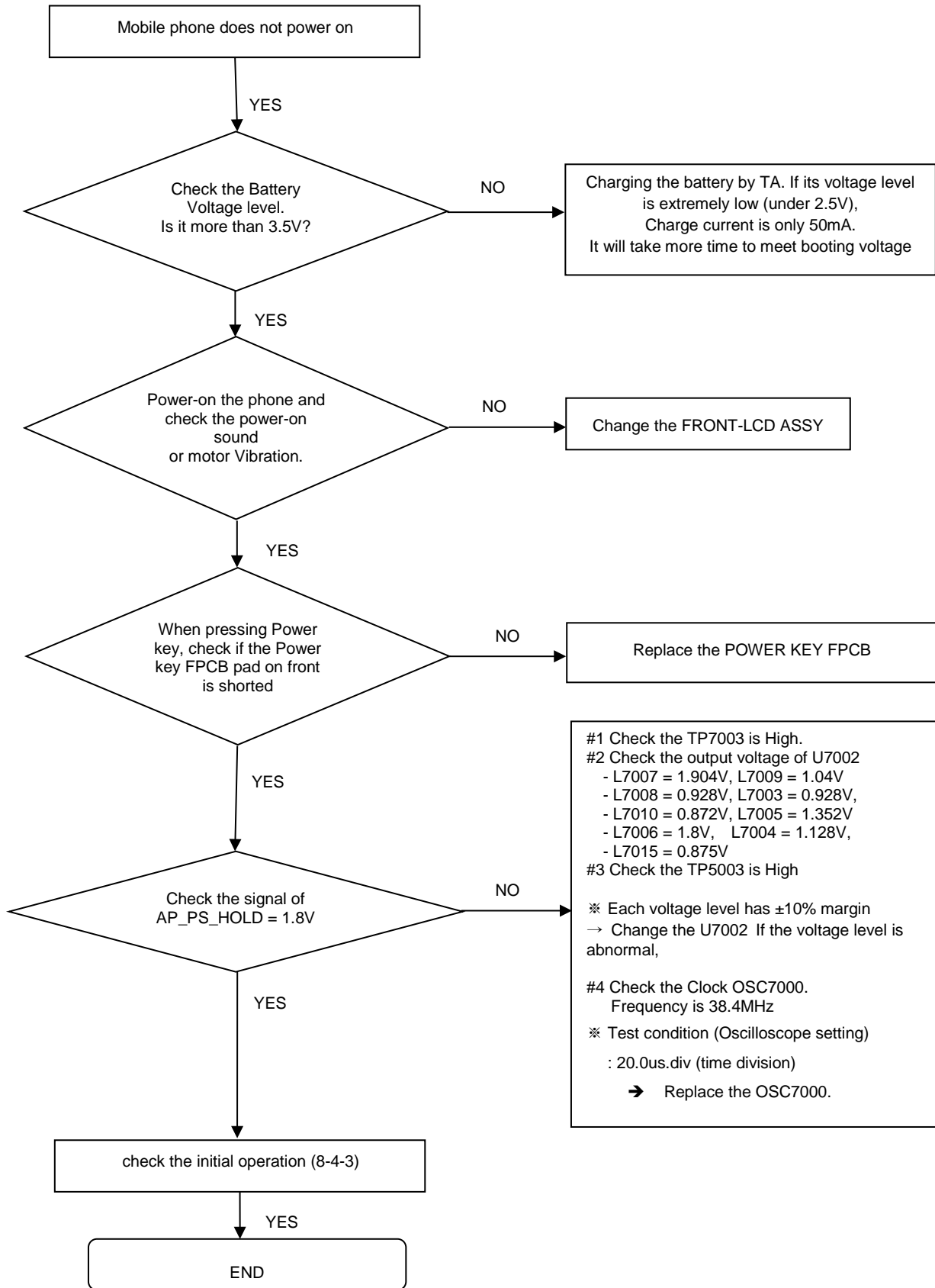
8. Level 3 Repair

8-3. Flow chart of Troubleshooting.

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

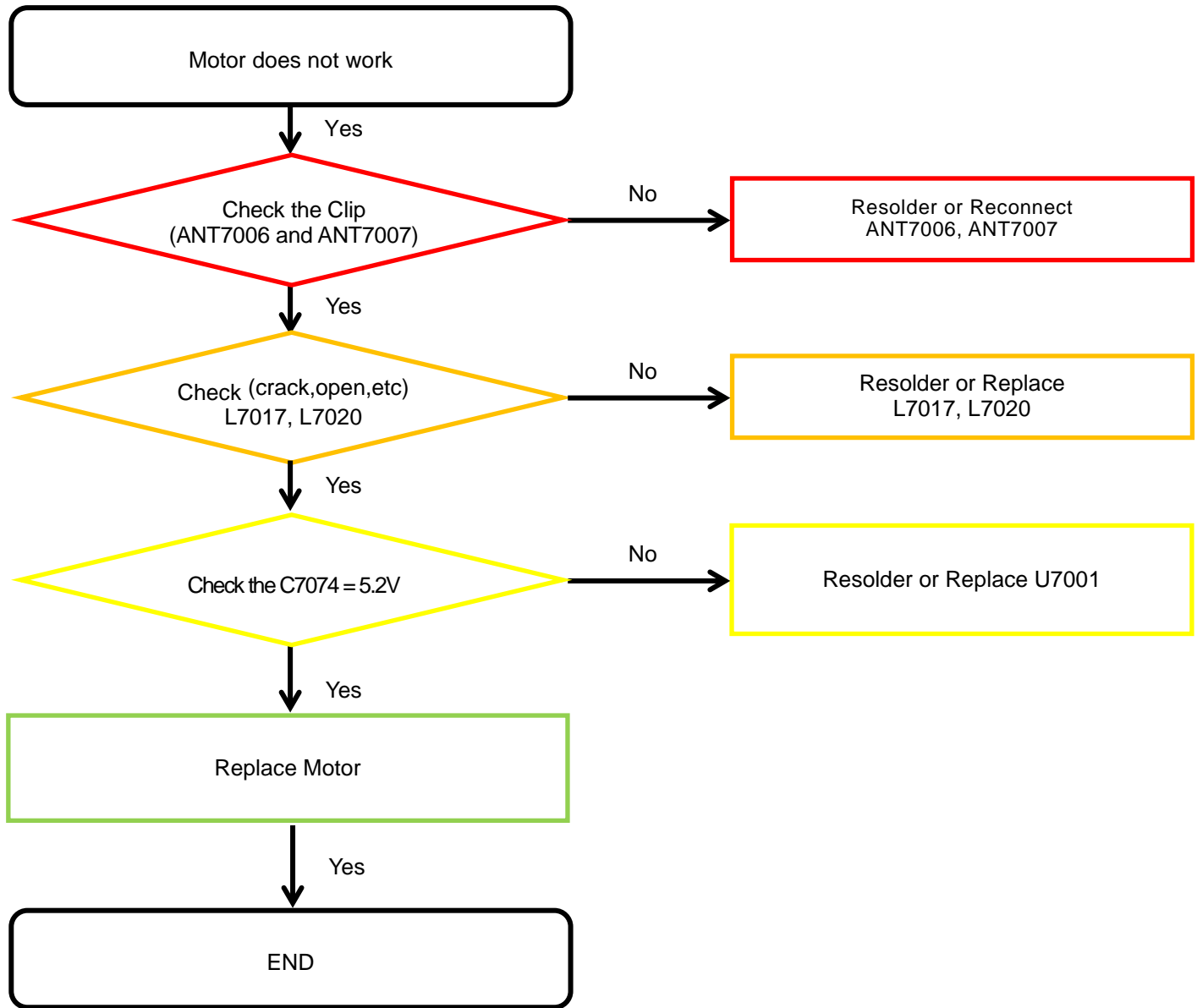
8. Level 3 Repair

8-4-1. Power on



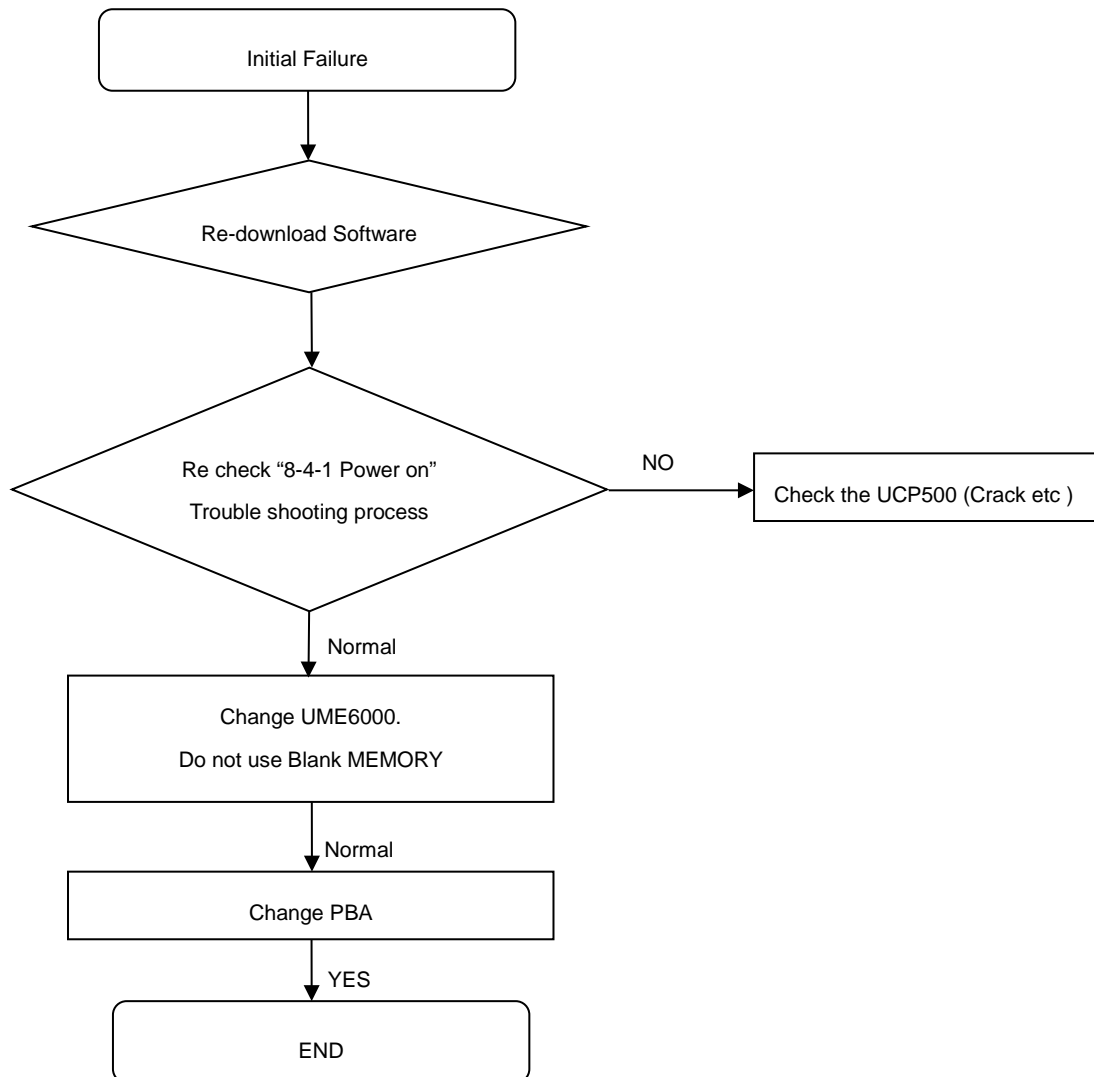
8. Level 3 Repair

8-4-2. Motor

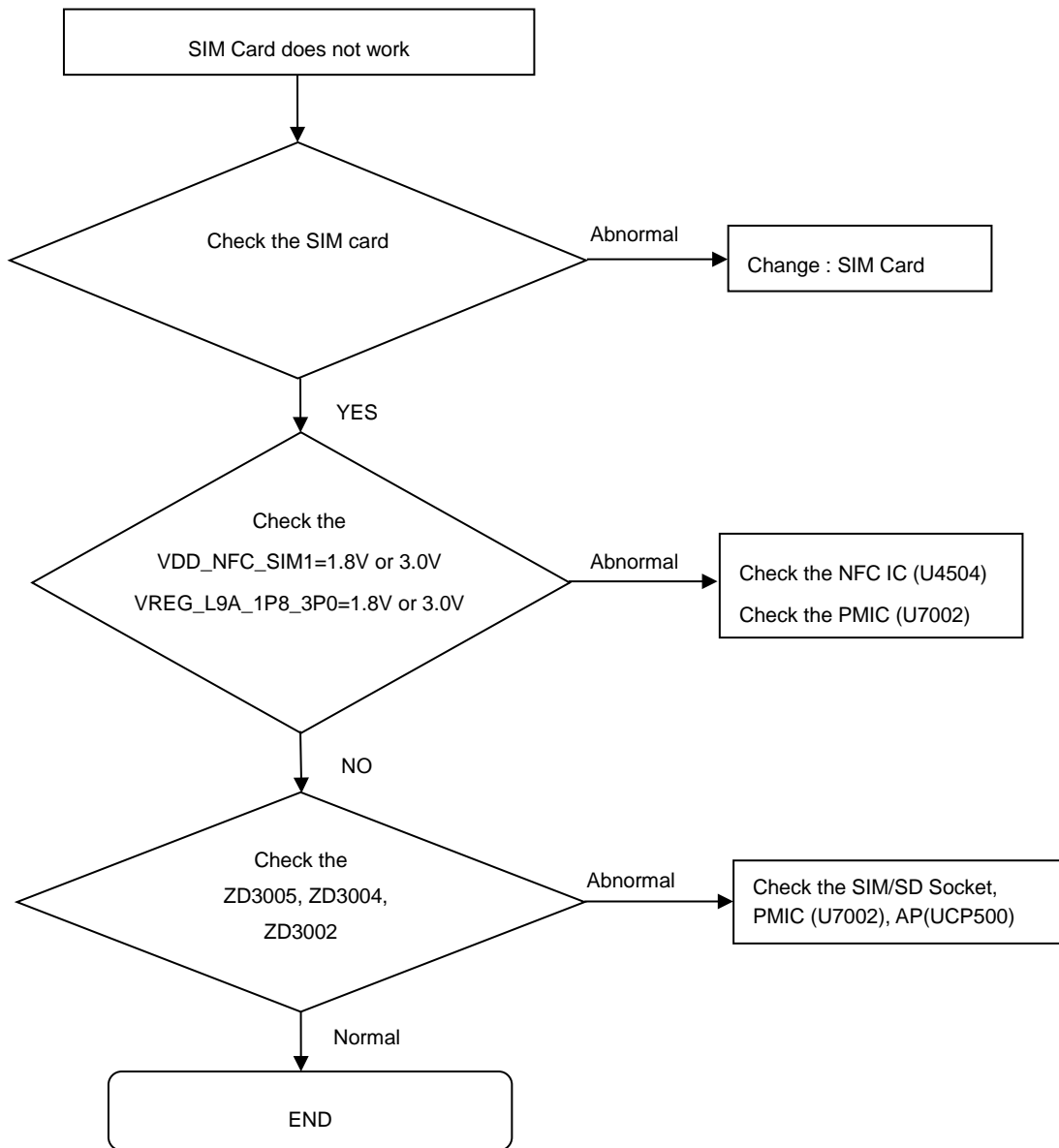


8. Level 3 Repair

8-4-3. initial

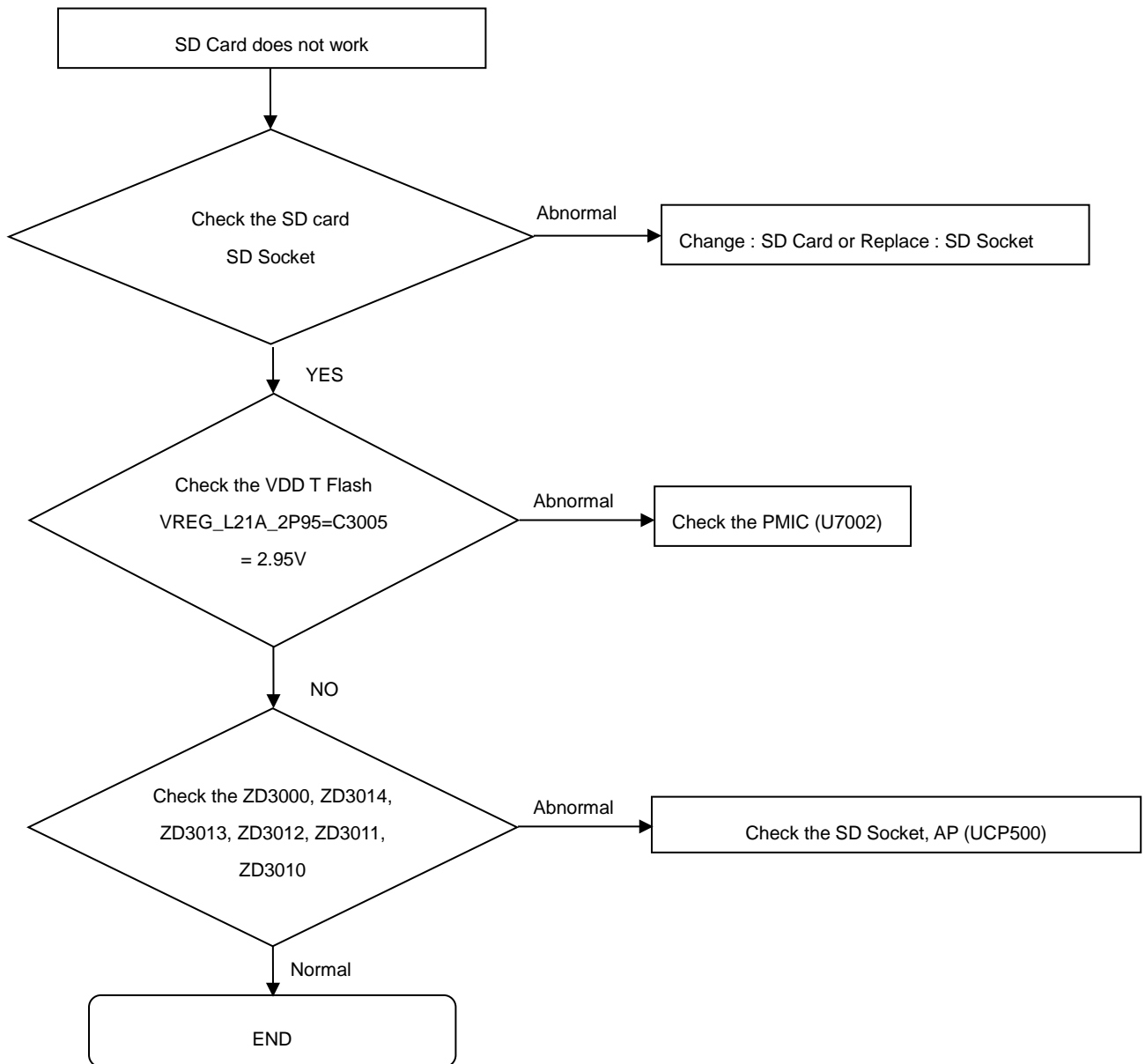


8-4-4. SIM PART



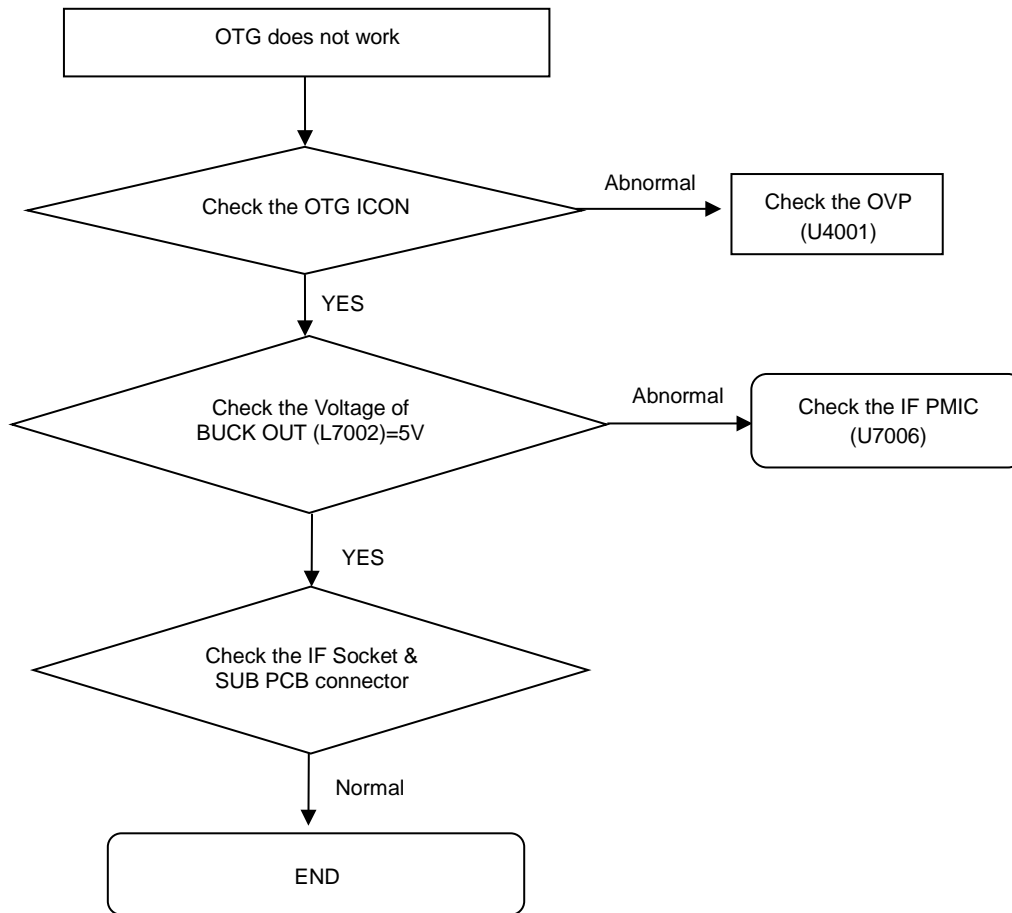
8. Level 3 Repair

8-4-5. SIM/SD PART



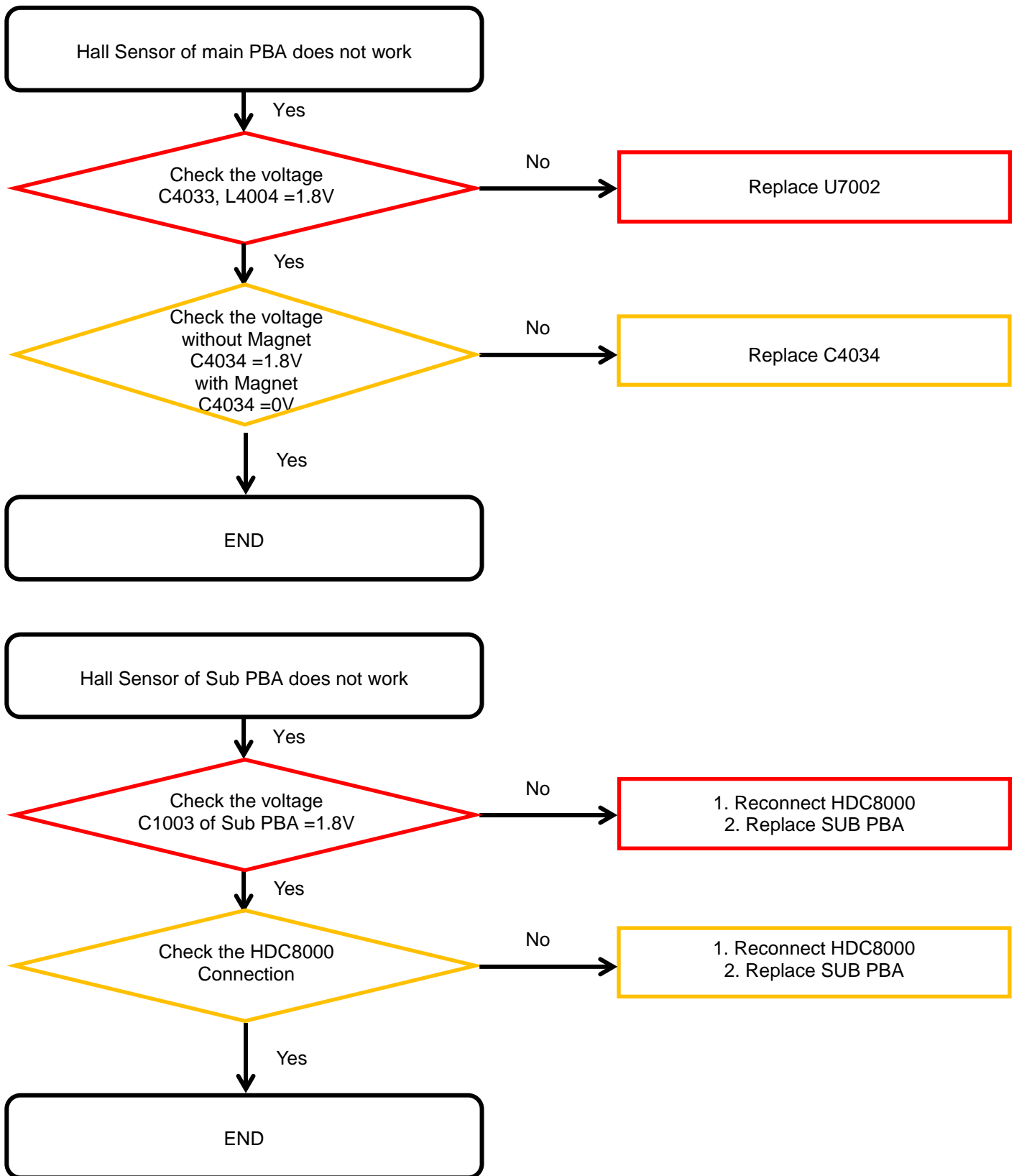
8. Level 3 Repair

8-4-6. OTG



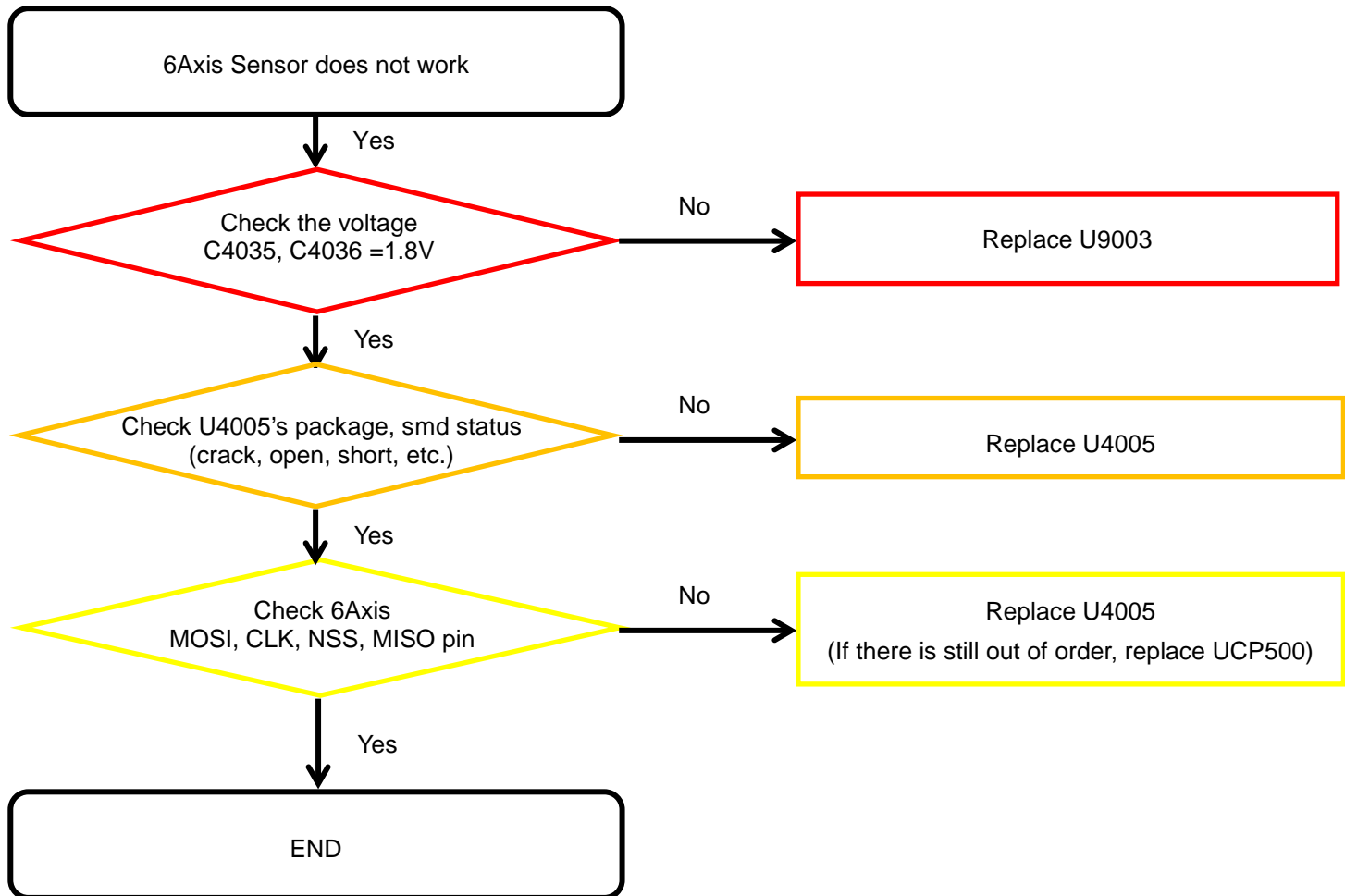
8. Level 3 Repair

8-4-7. Hall IC



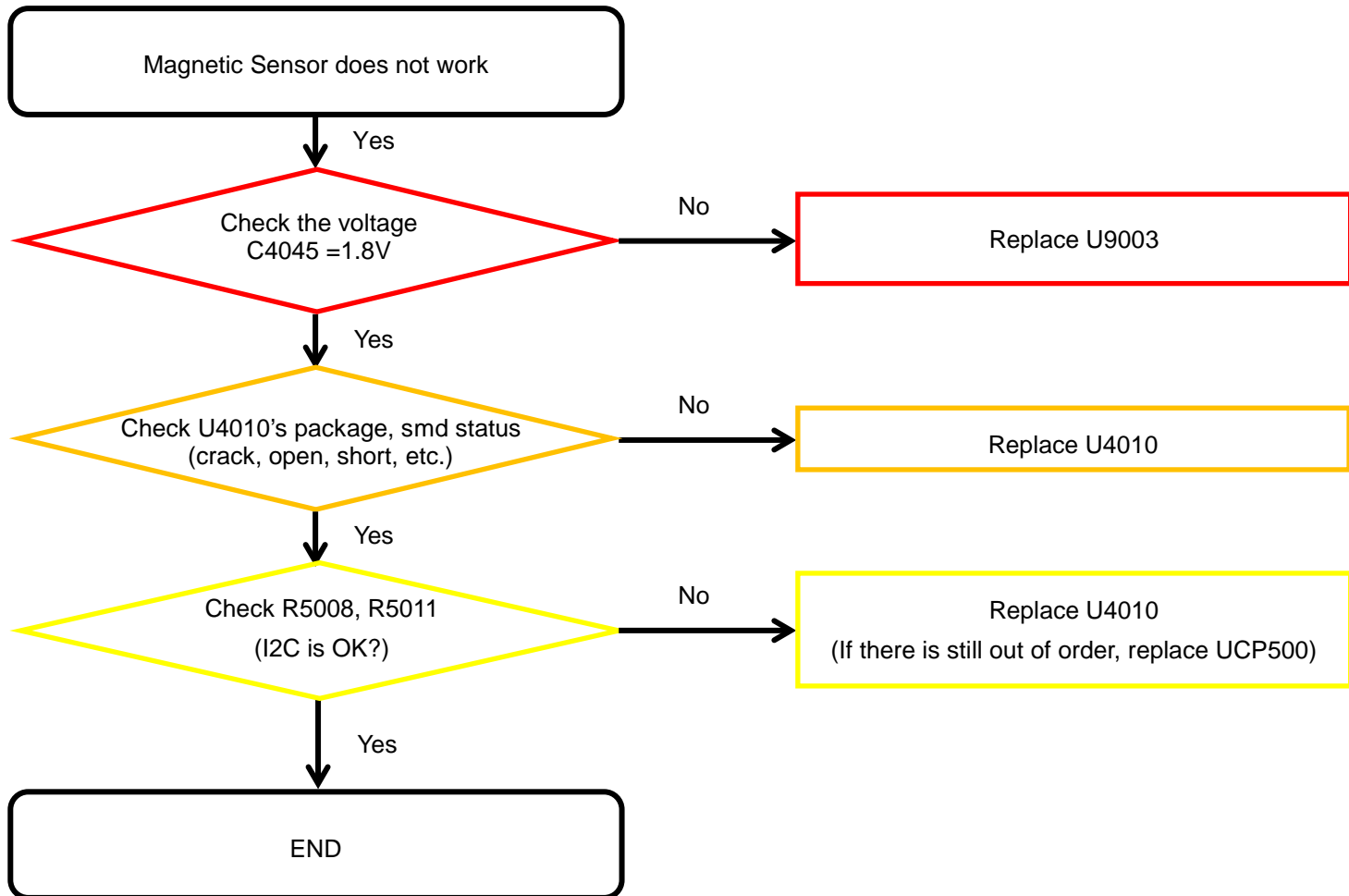
8. Level 3 Repair

8-4-8. 6Axis sensor



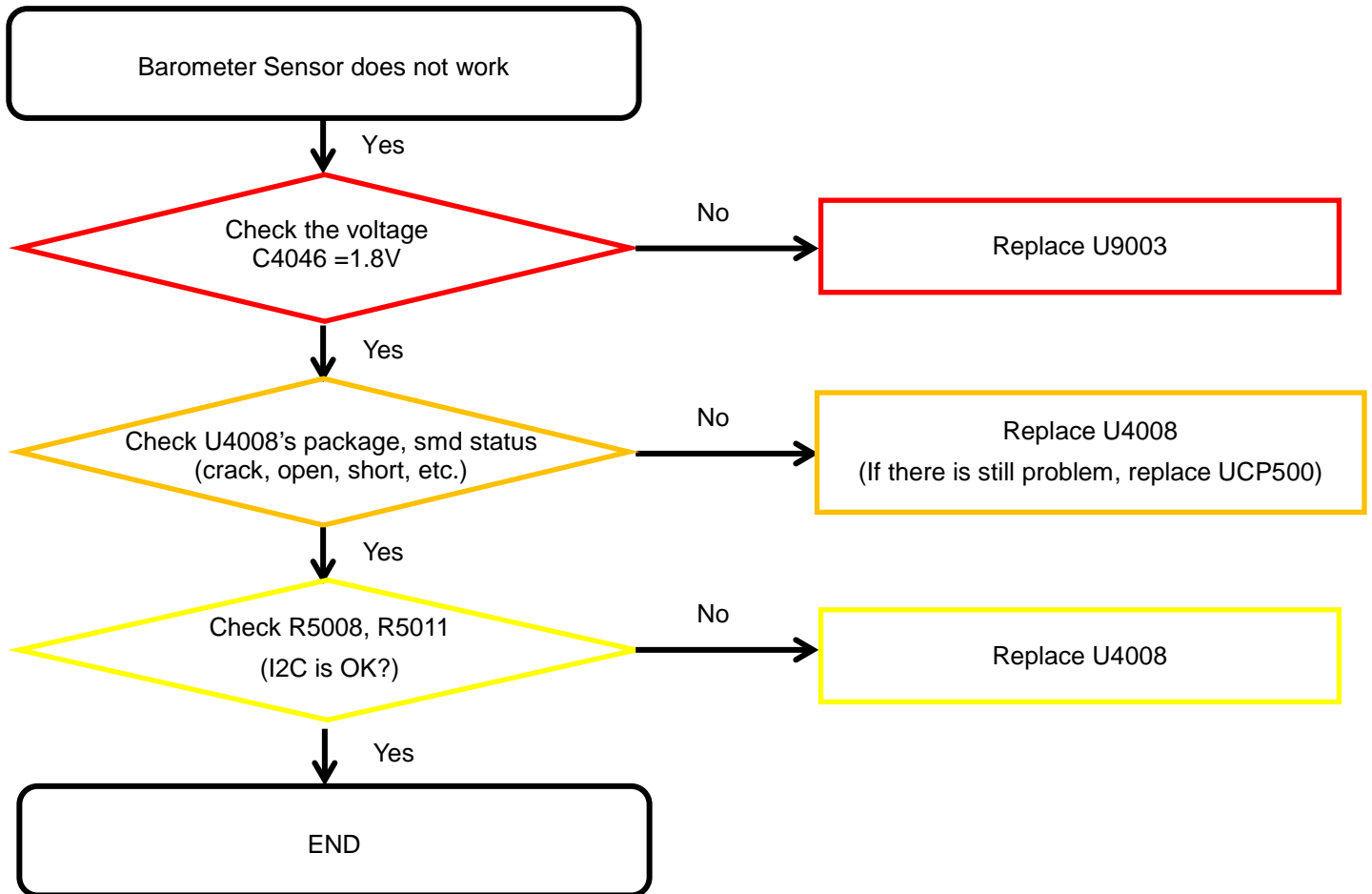
8. Level 3 Repair

8-4-9. Magnetic sensor



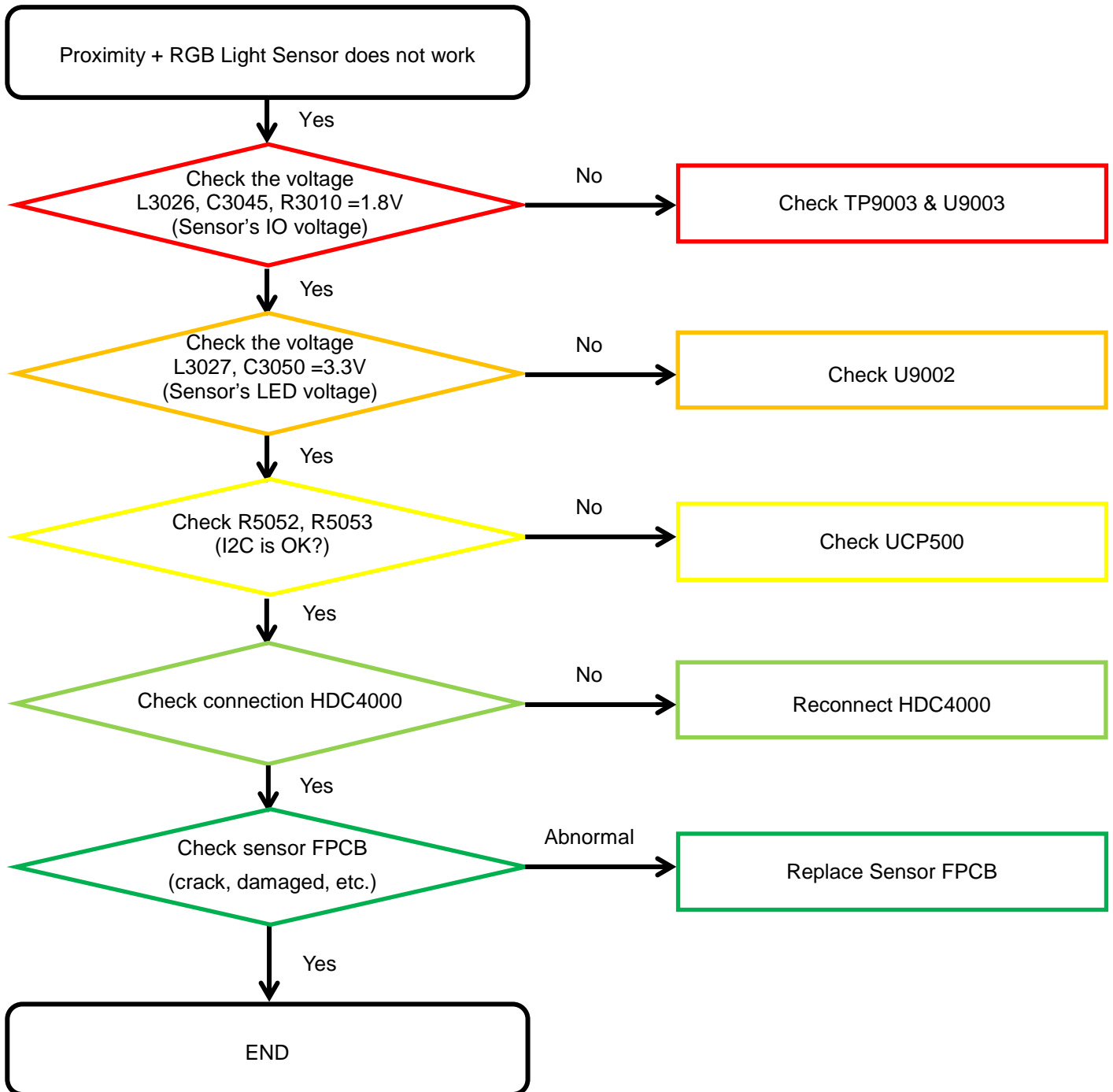
8. Level 3 Repair

8-4-10. Barometer sensor



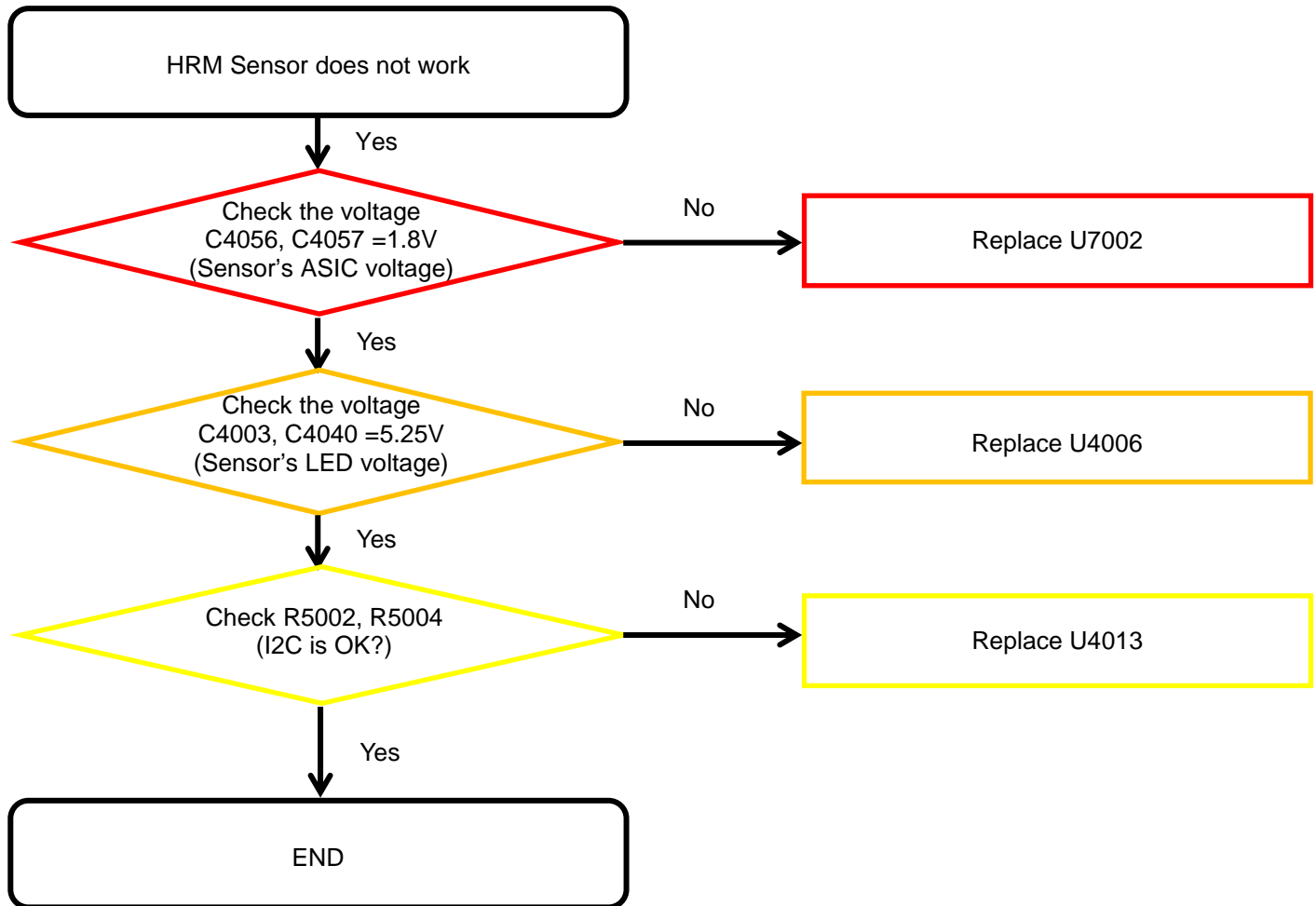
8. Level 3 Repair

8-4-11. Proximity + RGB sensor



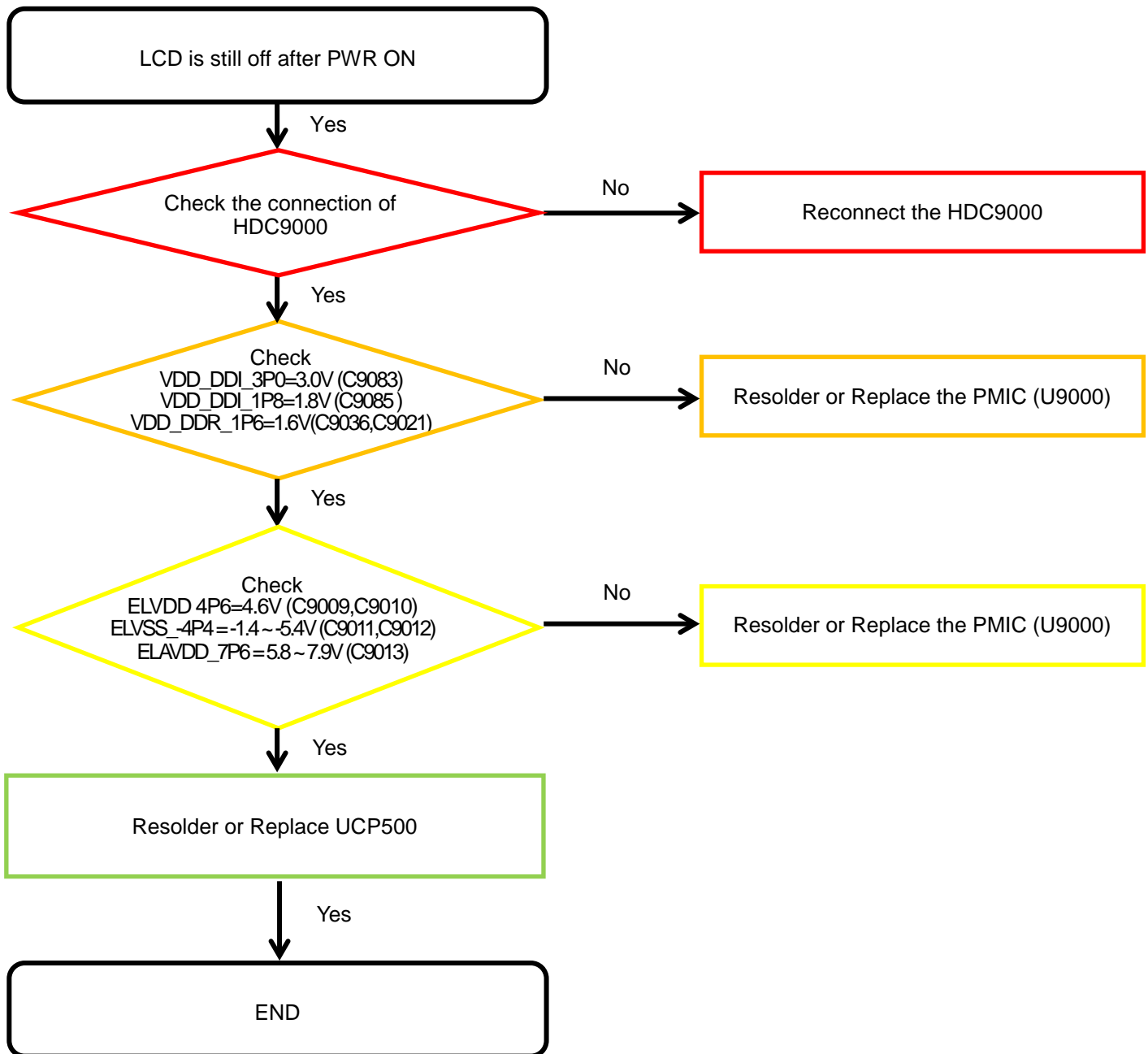
8. Level 3 Repair

8-4-12. HRM sensor



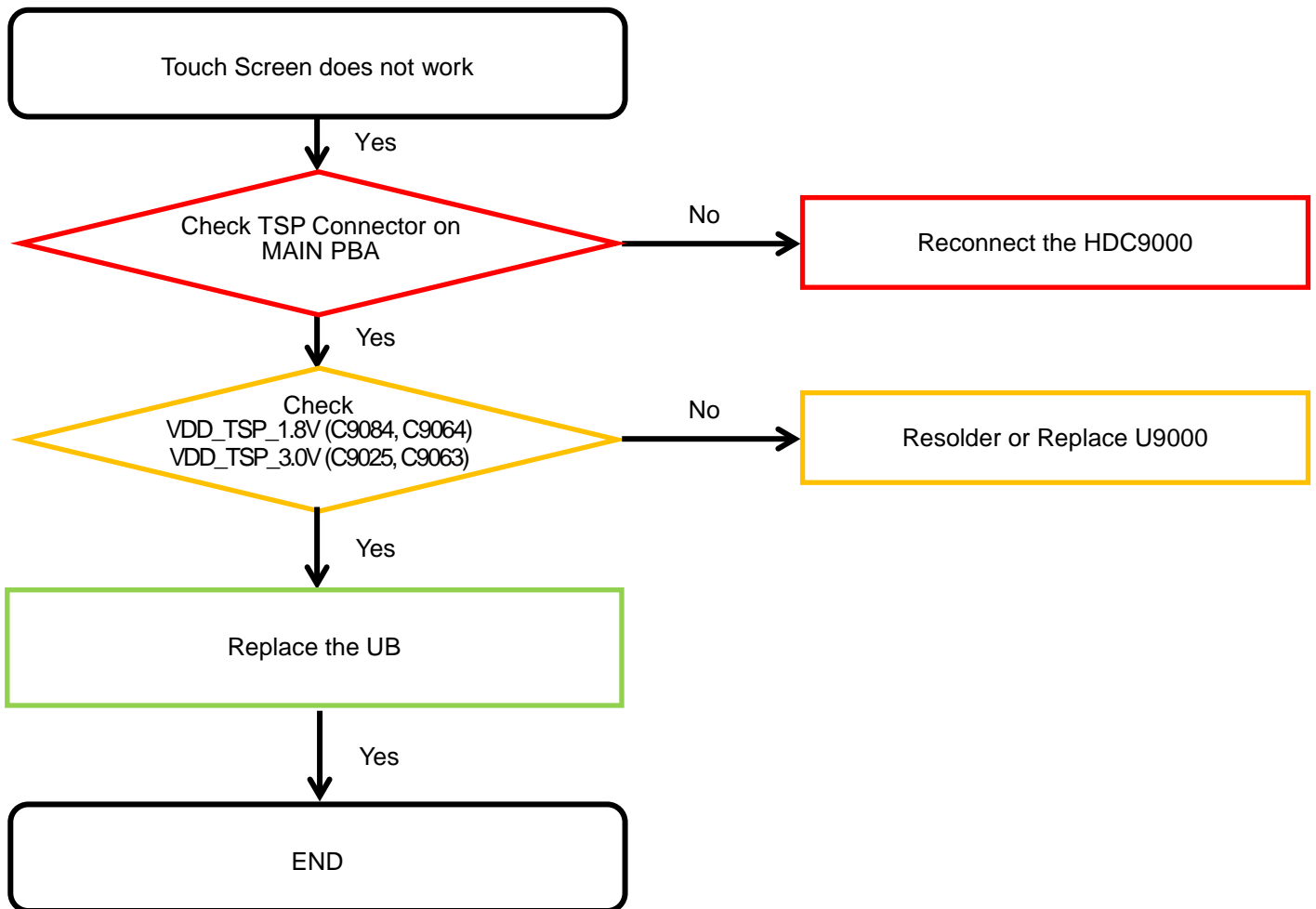
8. Level 3 Repair

8-4-13. Display



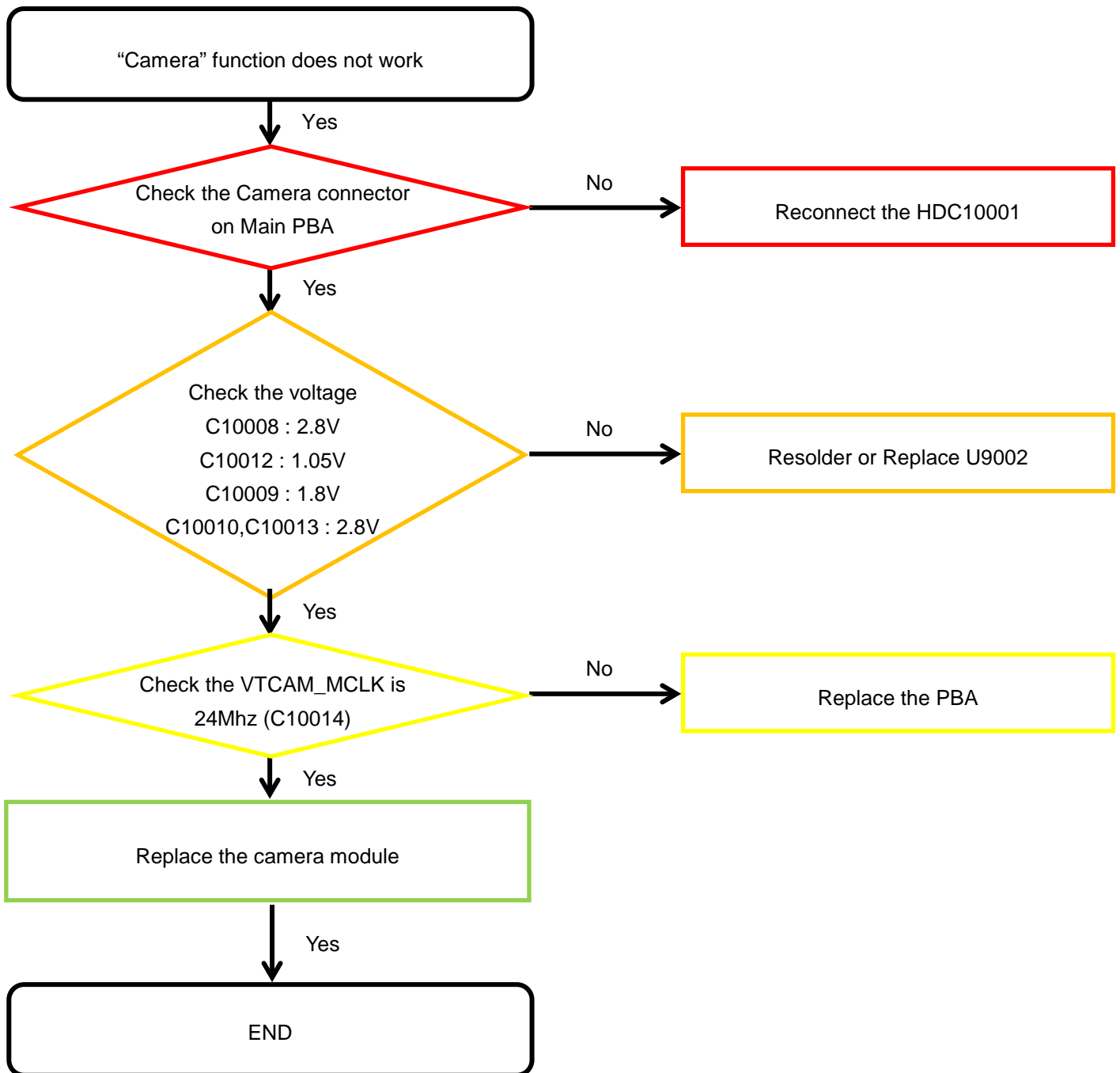
8. Level 3 Repair

8-4-14. TSP



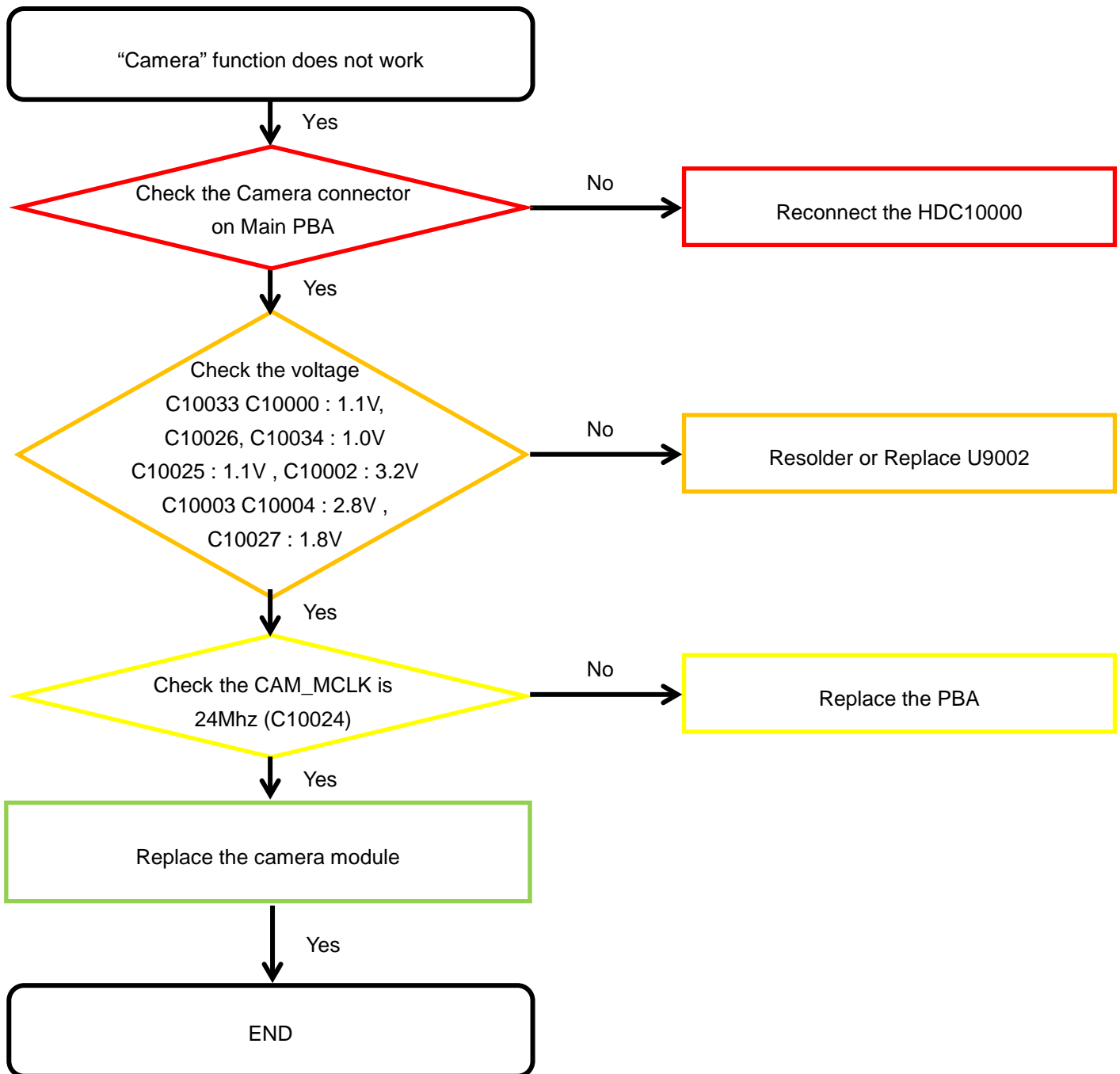
8. Level 3 Repair

8-4-15. VT CAMERA



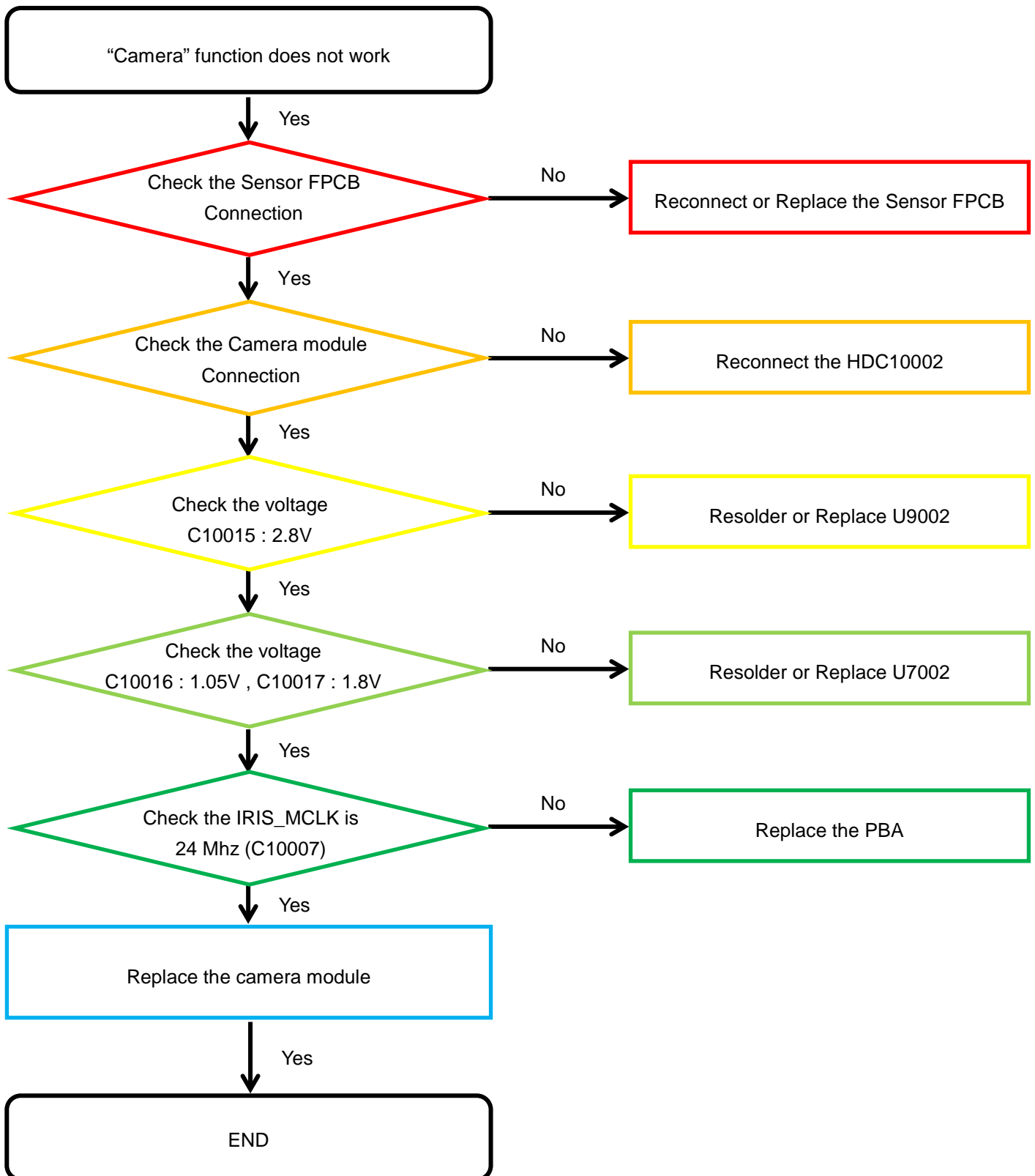
8. Level 3 Repair

8-4-16. 12M CAMERA



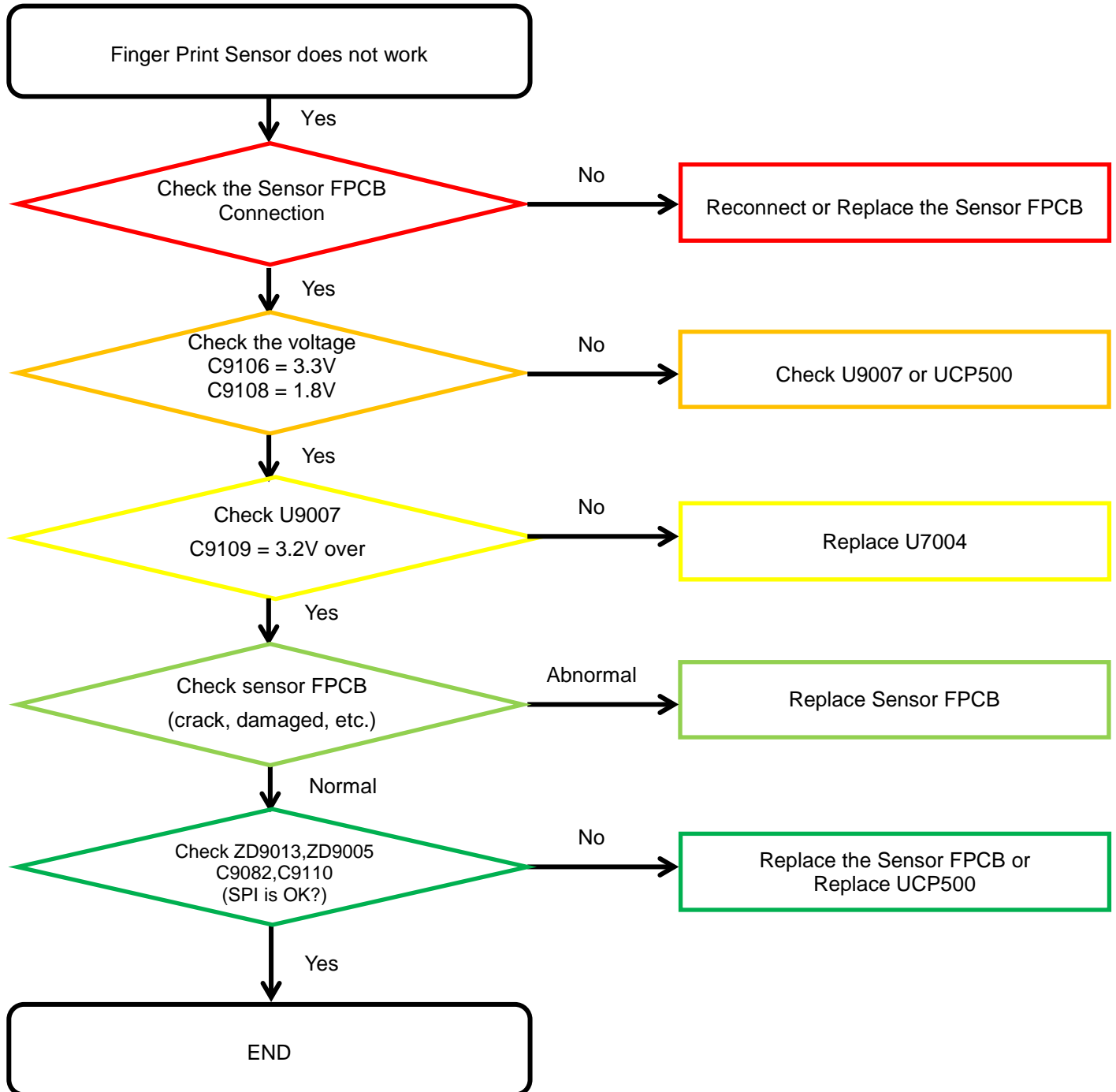
8. Level 3 Repair

8-4-17. IRIS CAMERA



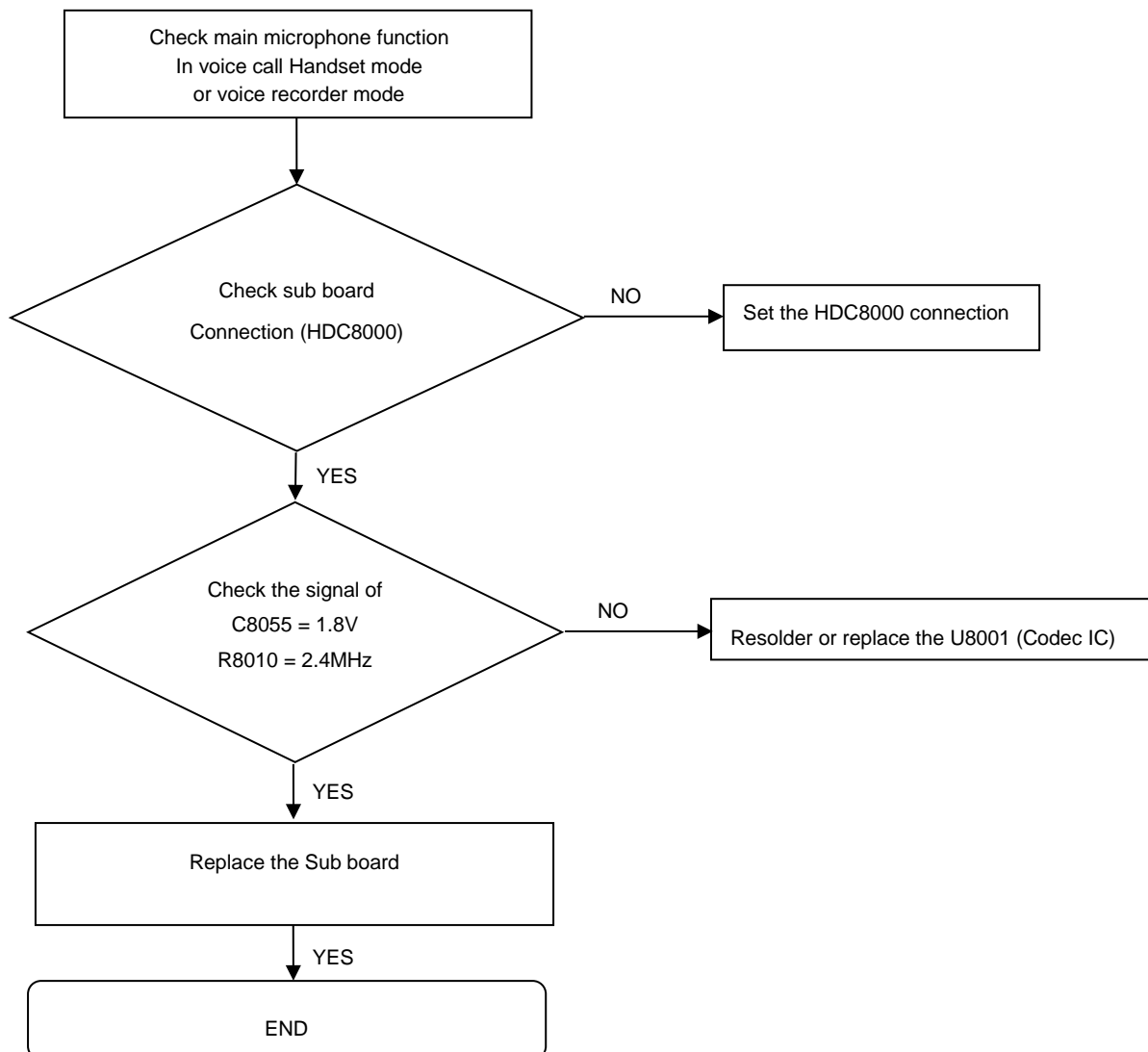
8. Level 3 Repair

8-4-18. Finger Print



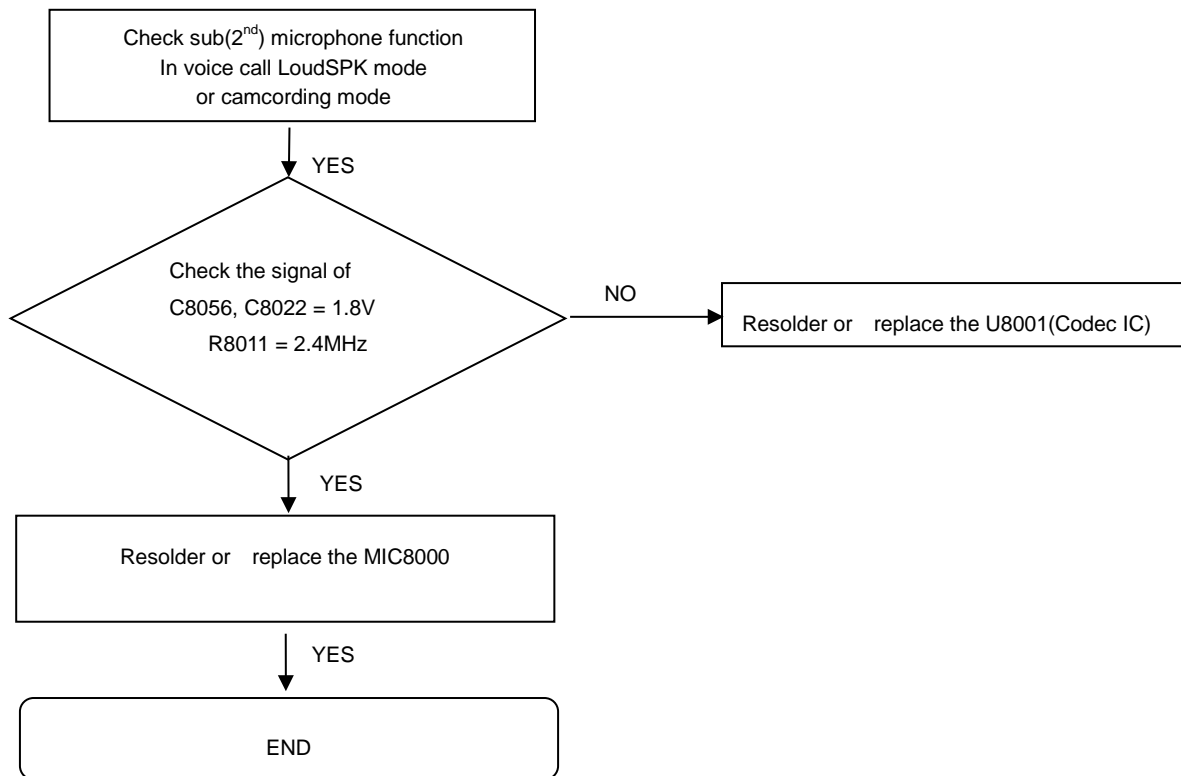
8. Level 3 Repair

8-4-19-1. Main MIC



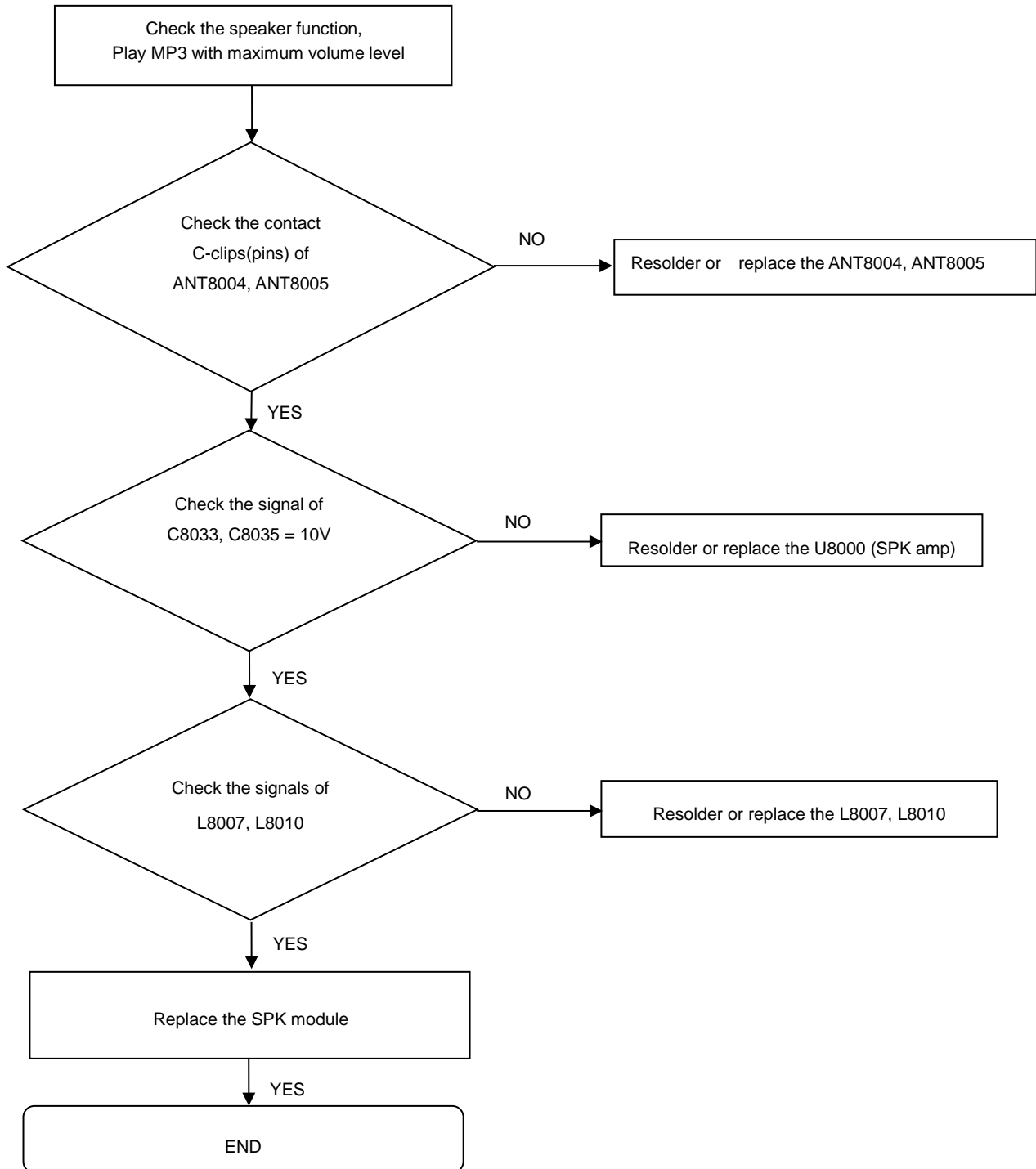
8. Level 3 Repair

8-4-19-2. Sub(2nd) MIC



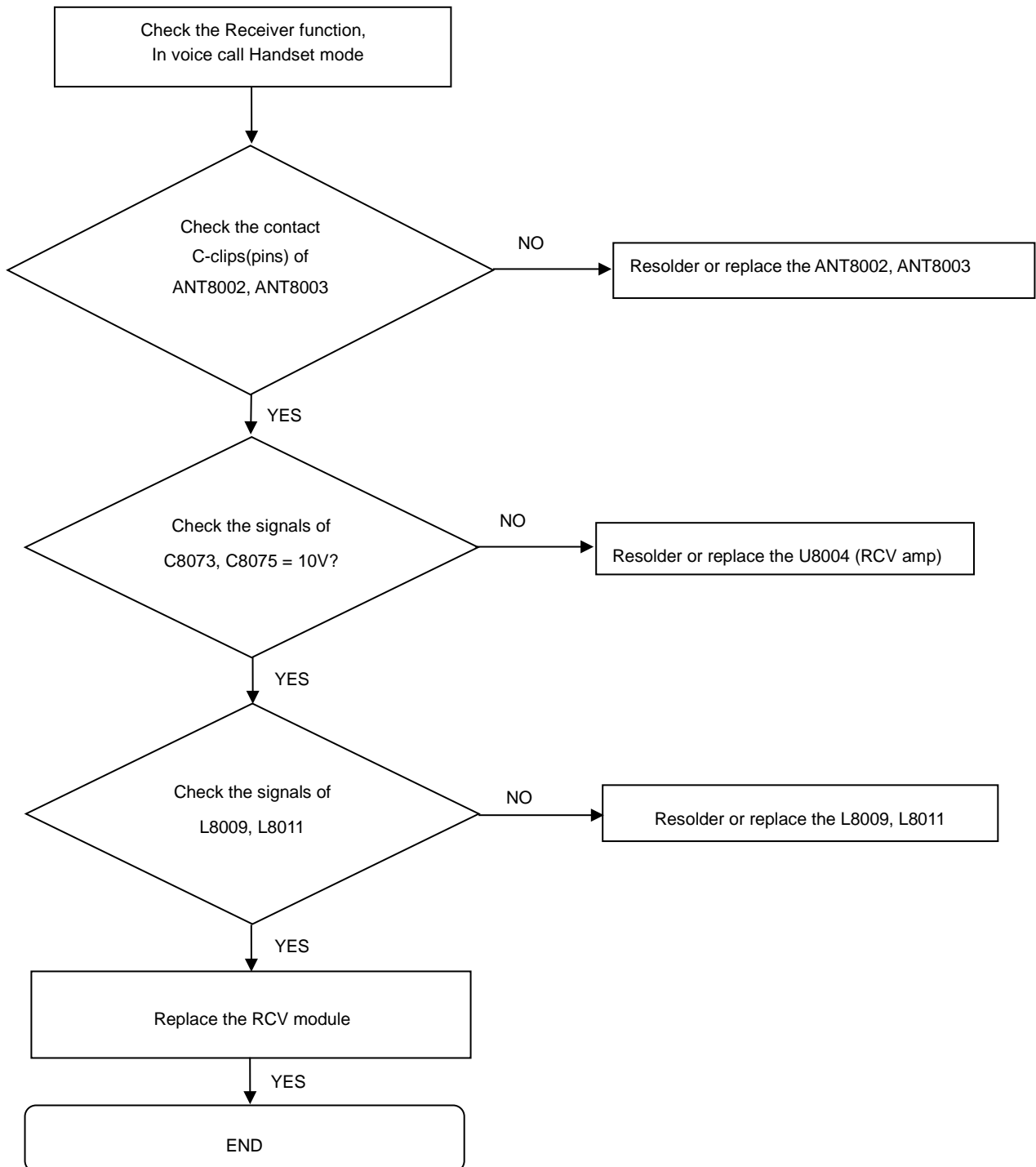
8. Level 3 Repair

8-4-20. Speaker part



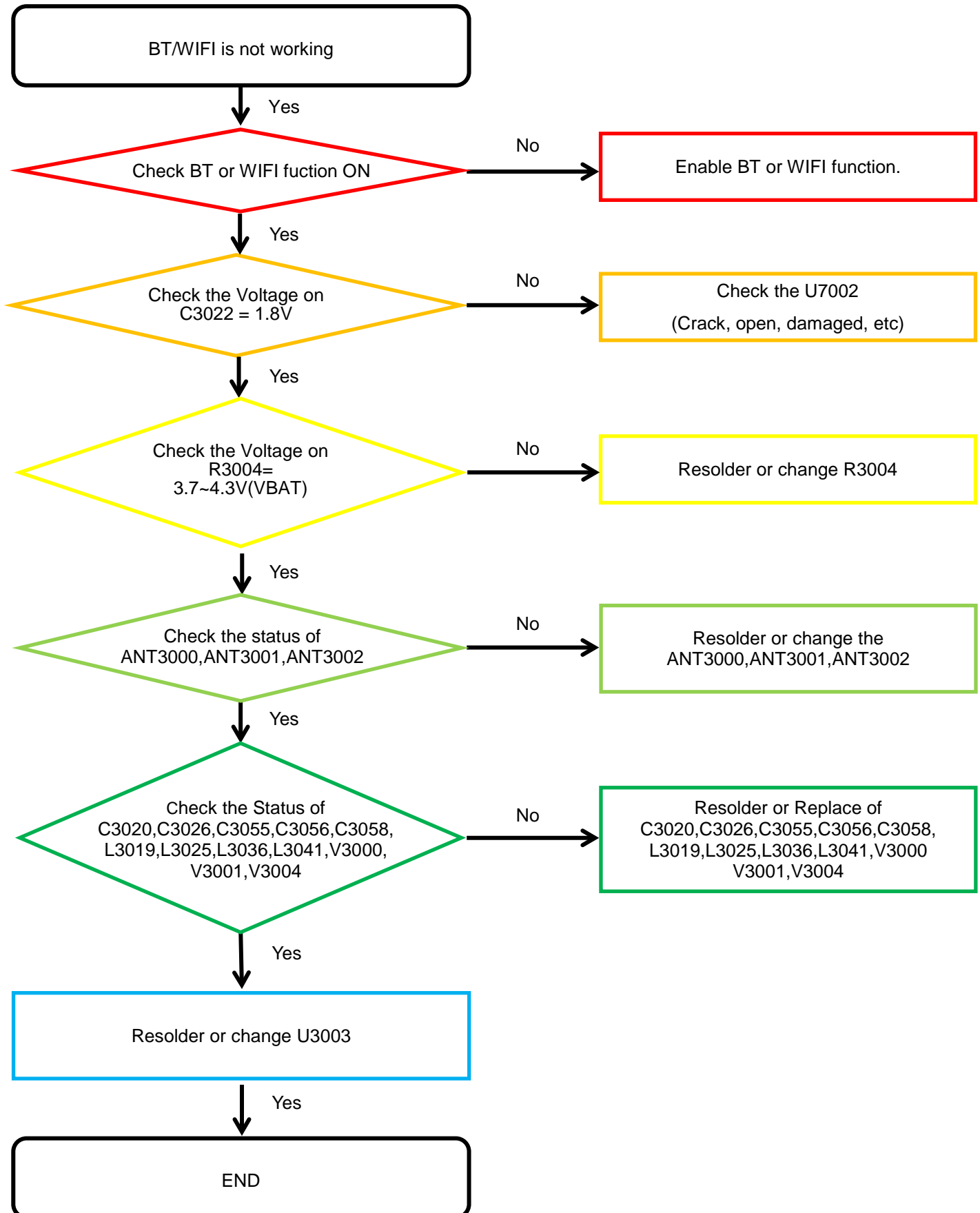
8. Level 3 Repair

8-4-21. Receiver part



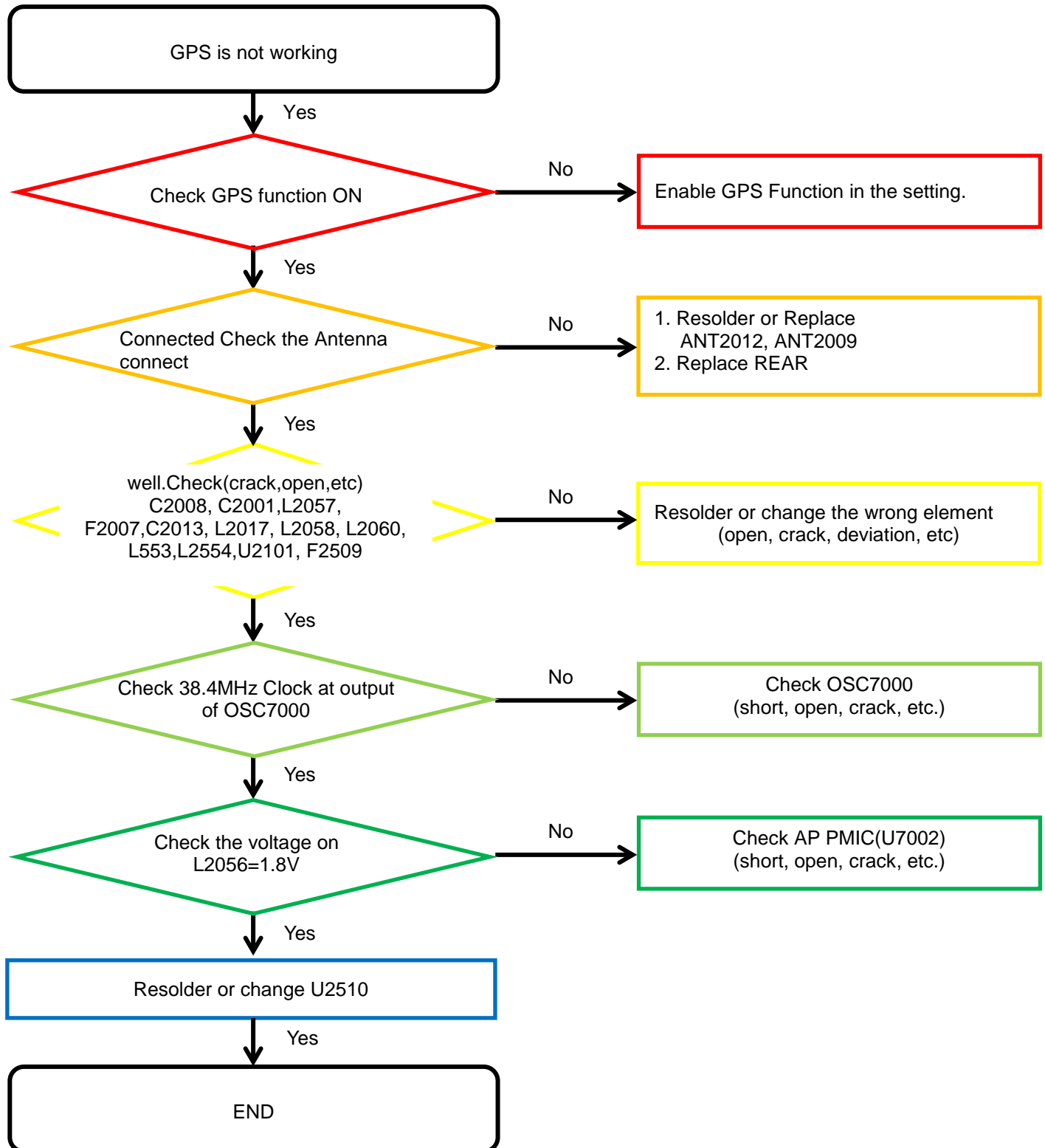
8. Level 3 Repair

8-4-22. BT/WIFI



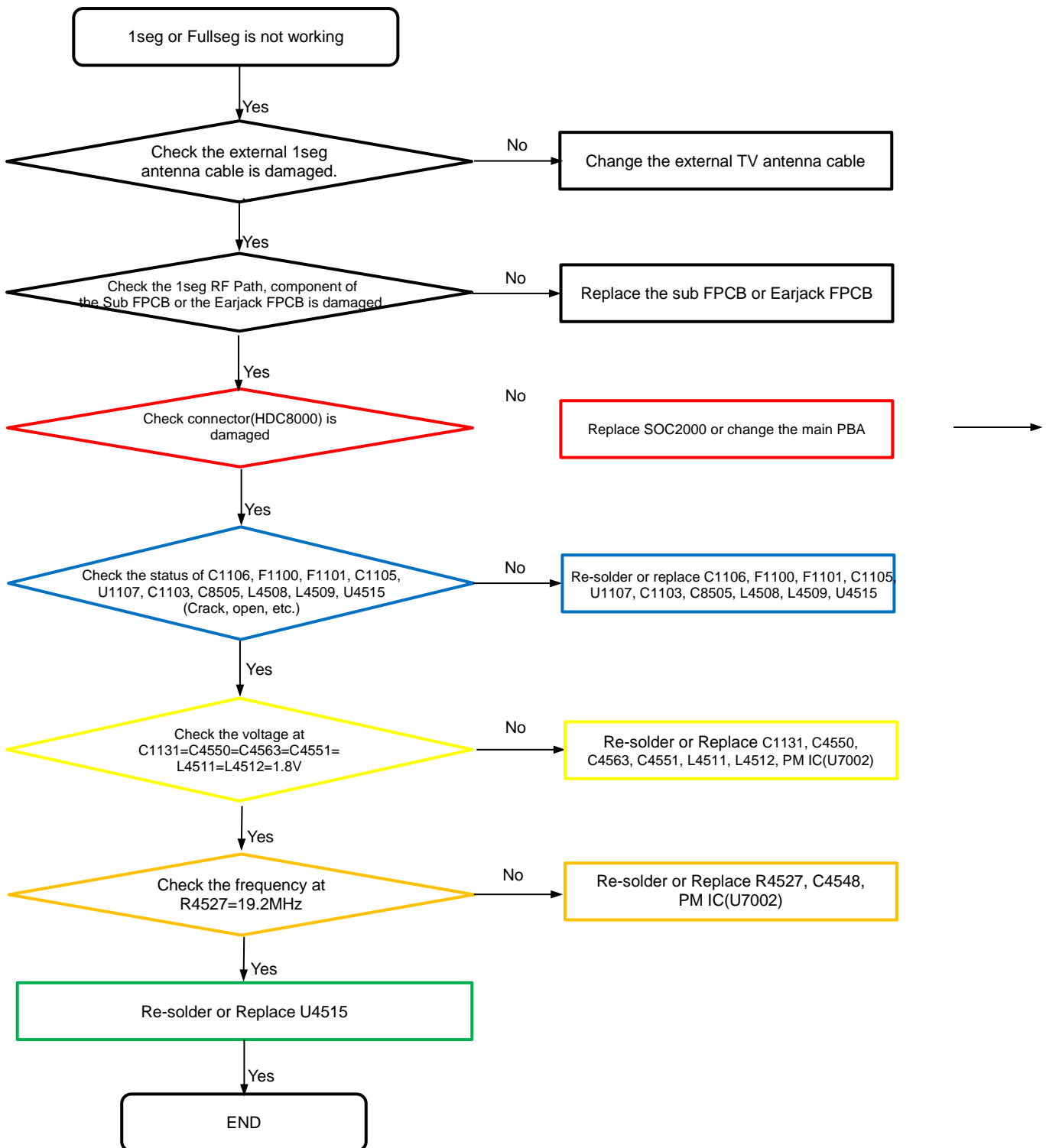
8. Level 3 Repair

8-4-23. GPS



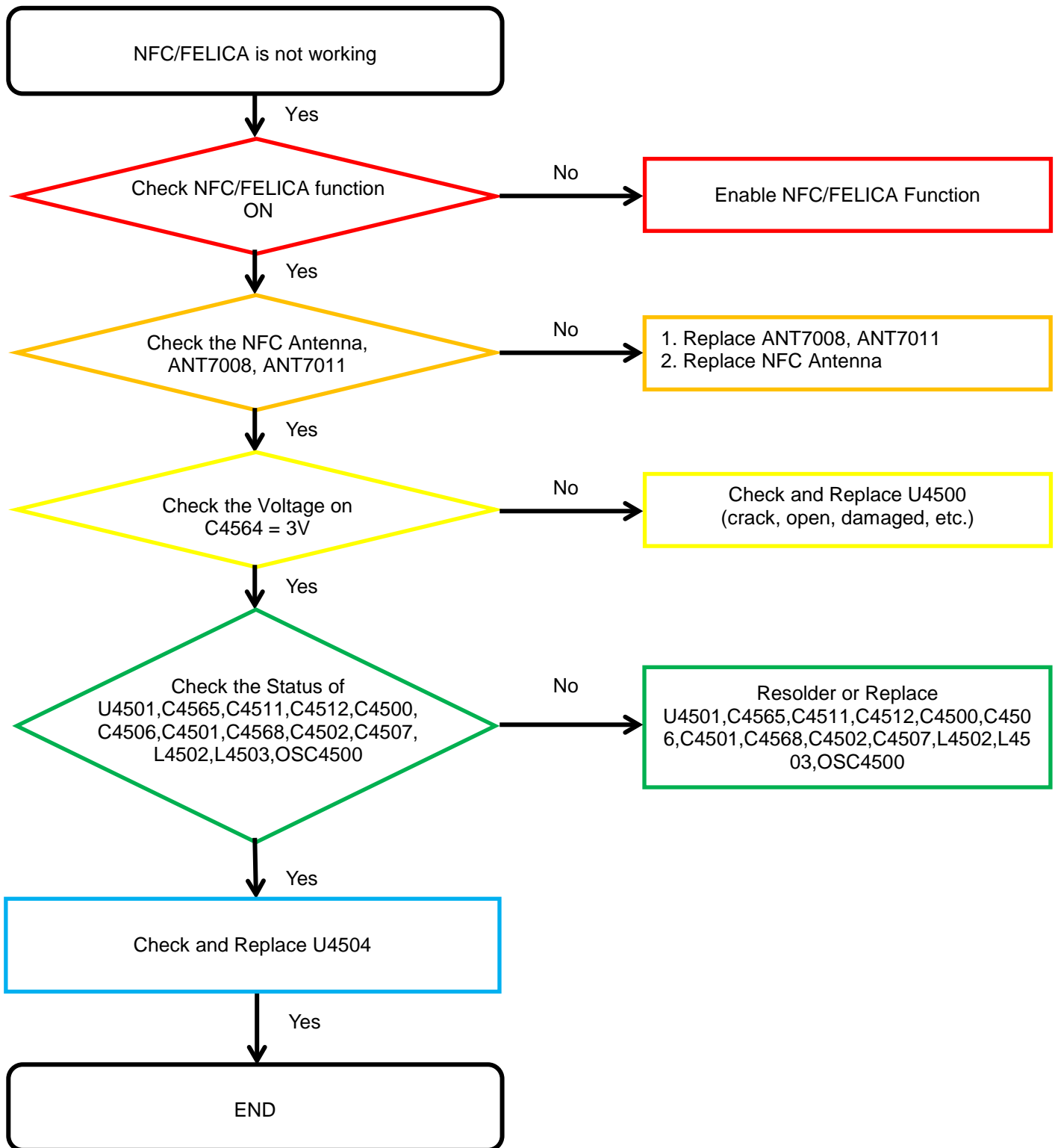
8. Level 3 Repair

8-4-24. ISDBT



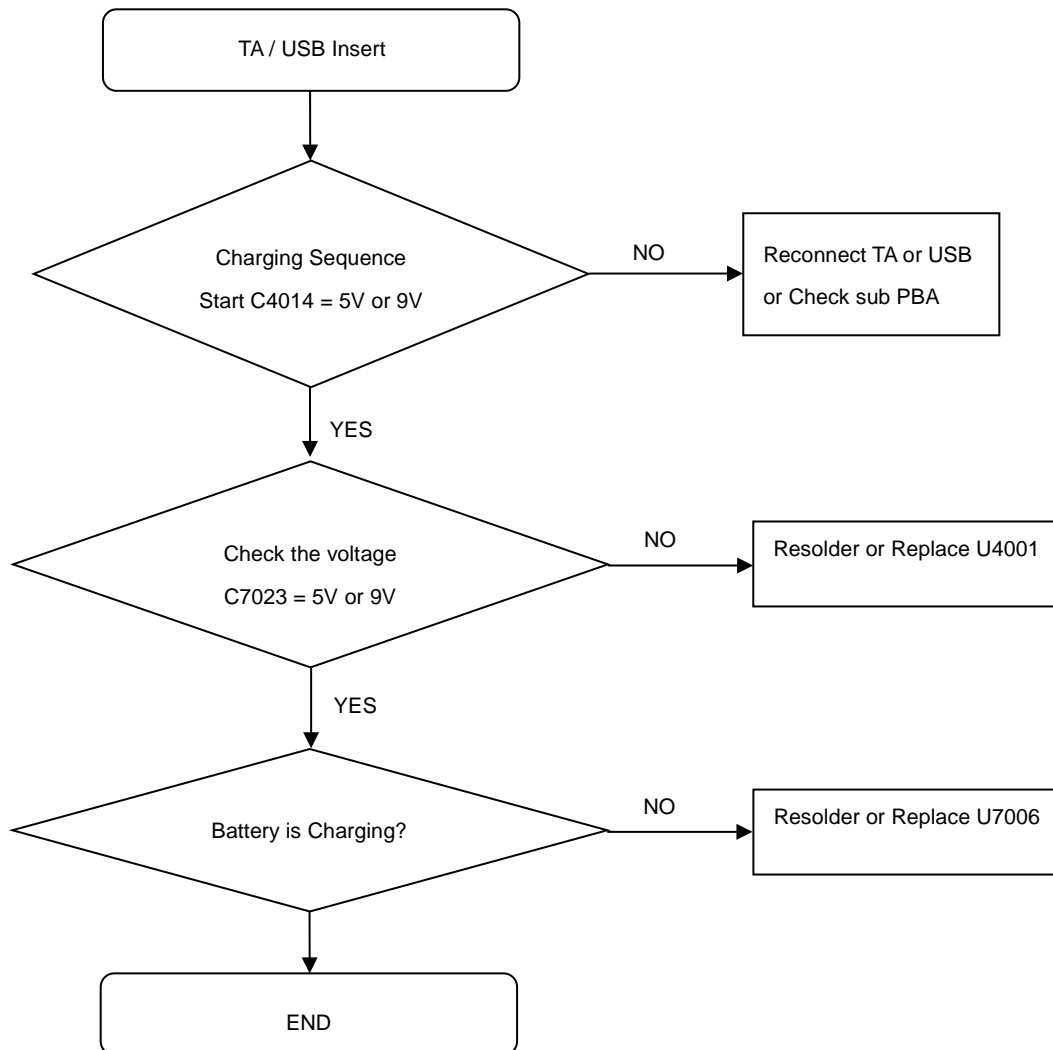
8. Level 3 Repair

8-4-25. NFC/FELICA



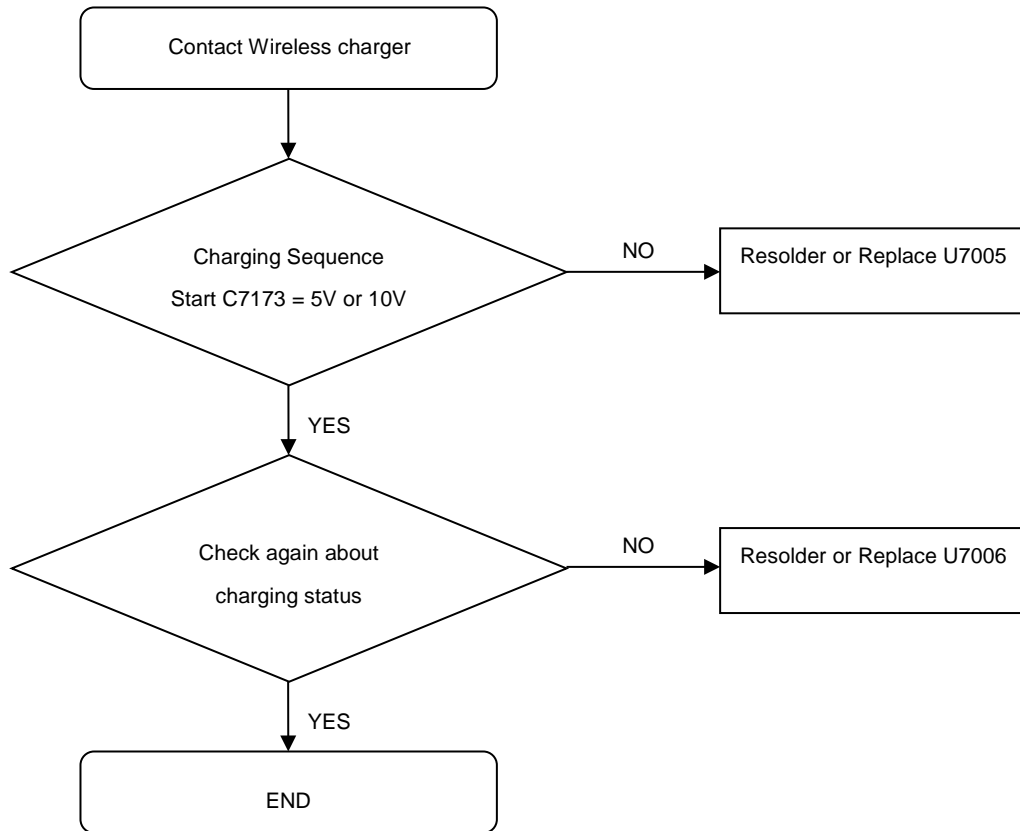
8. Level 3 Repair

8-4-26-1. Charging Part Wire Charging (Normal/Fast)



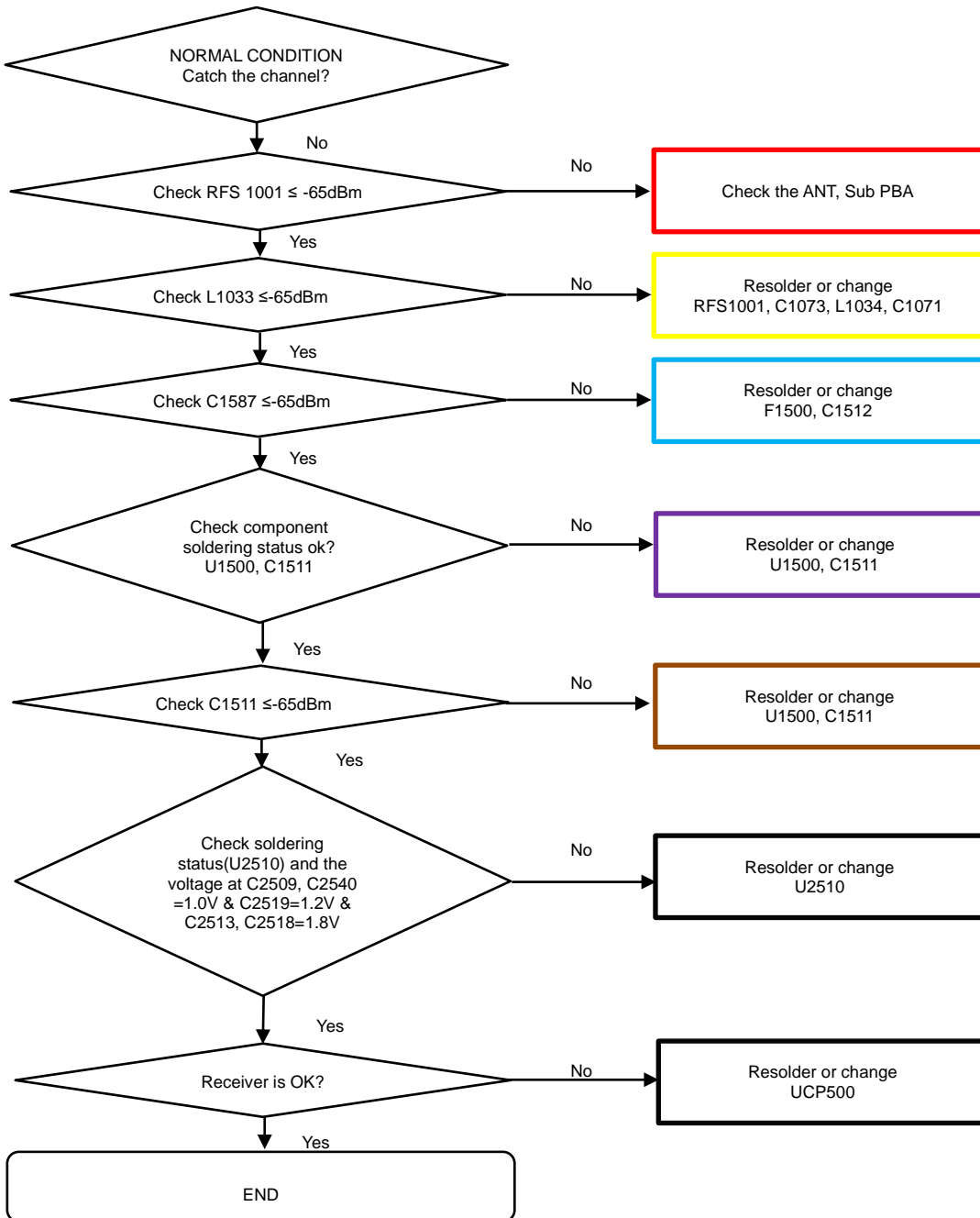
8. Level 3 Repair

8-4-26-2. Charging Part Wireless Charging (Normal/Fast)



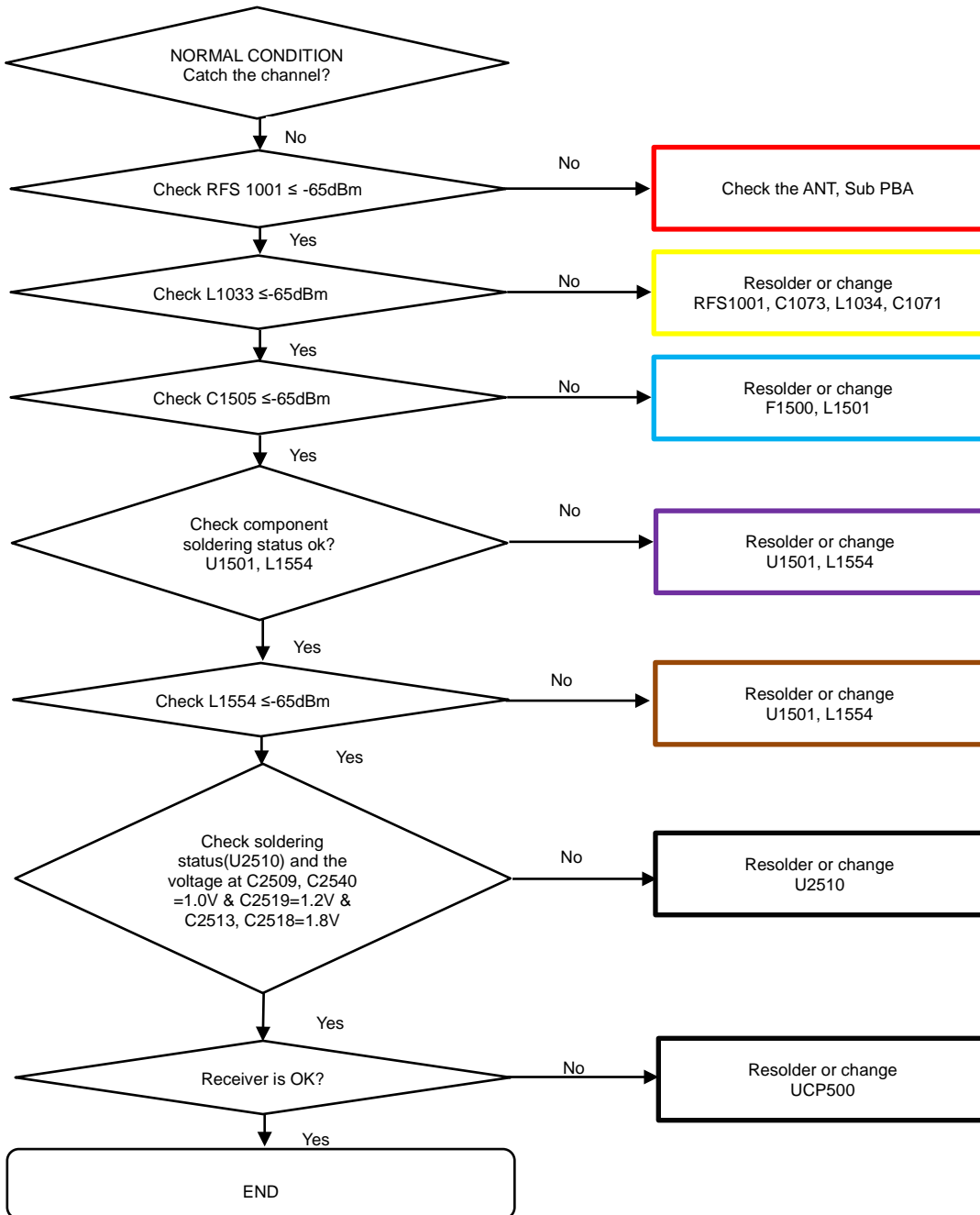
8. Level 3 Repair

8-4-27. GSM 850/900, WCDMA B5/6/19, LTE B5/12/13/17/19/26/28 RX



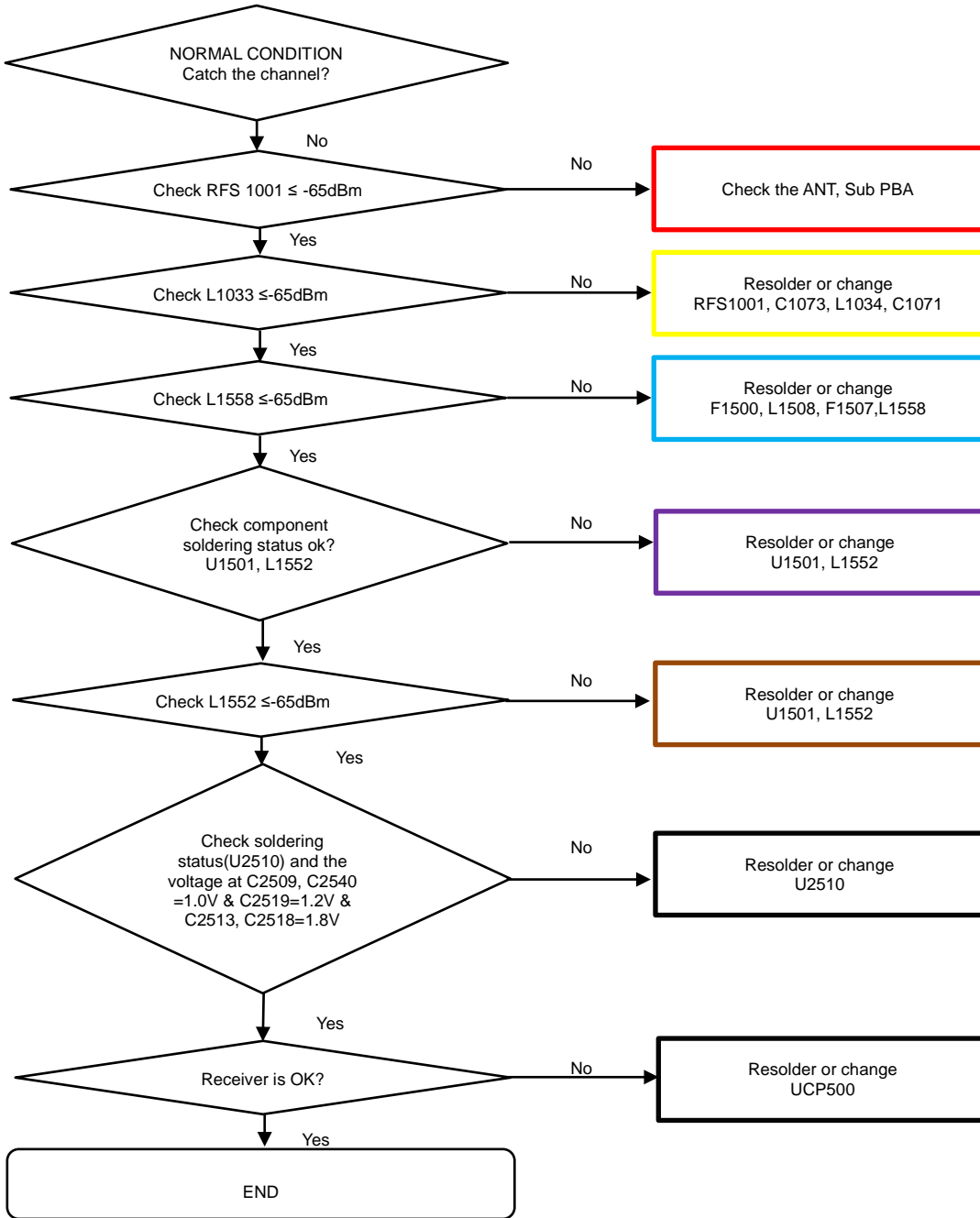
8. Level 3 Repair

8-4-28. GSM 1800/1900, WCDMA B1, LTE B1/3/4 RX



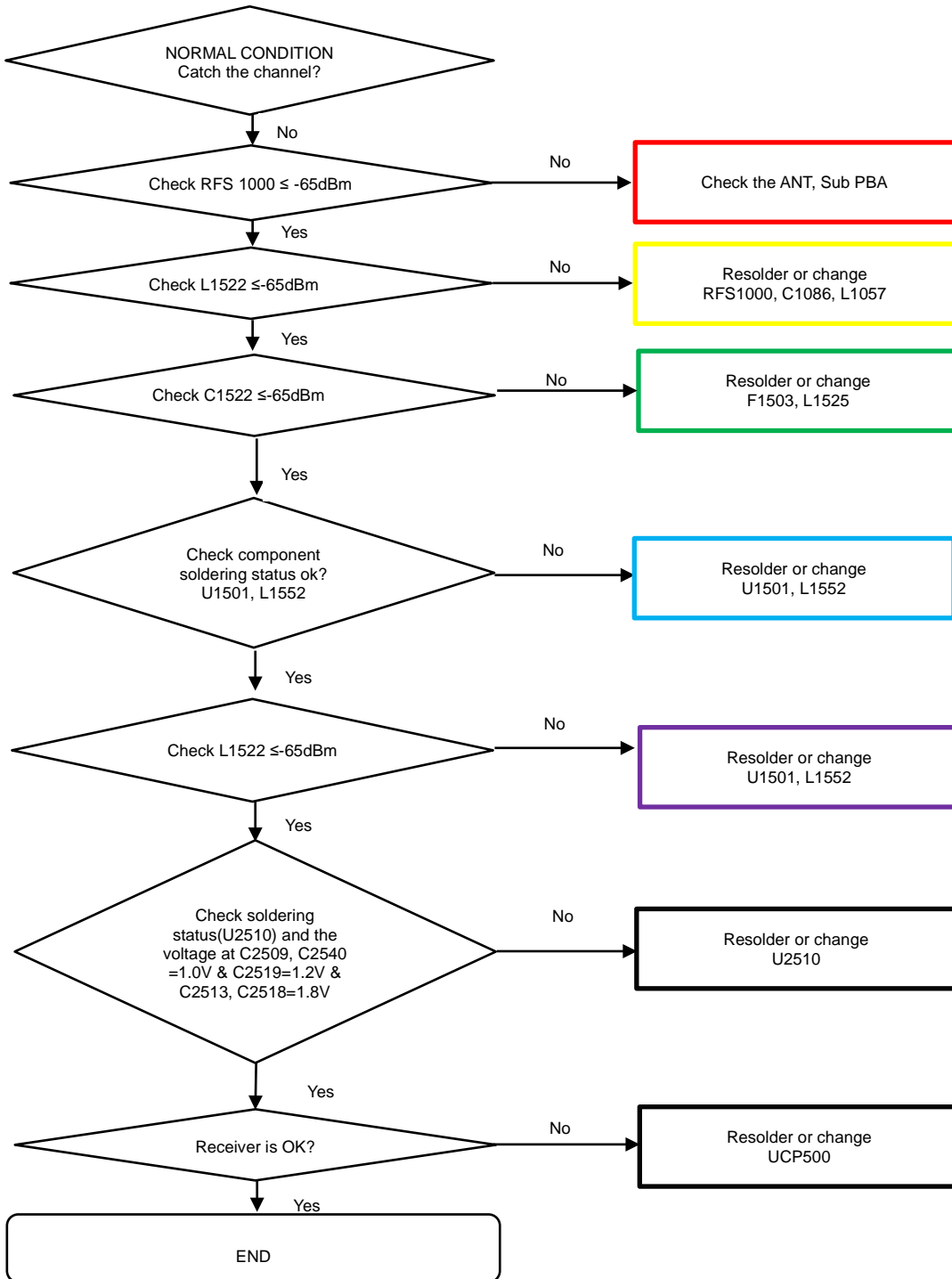
8. Level 3 Repair

8-4-29. LTE B21 RX



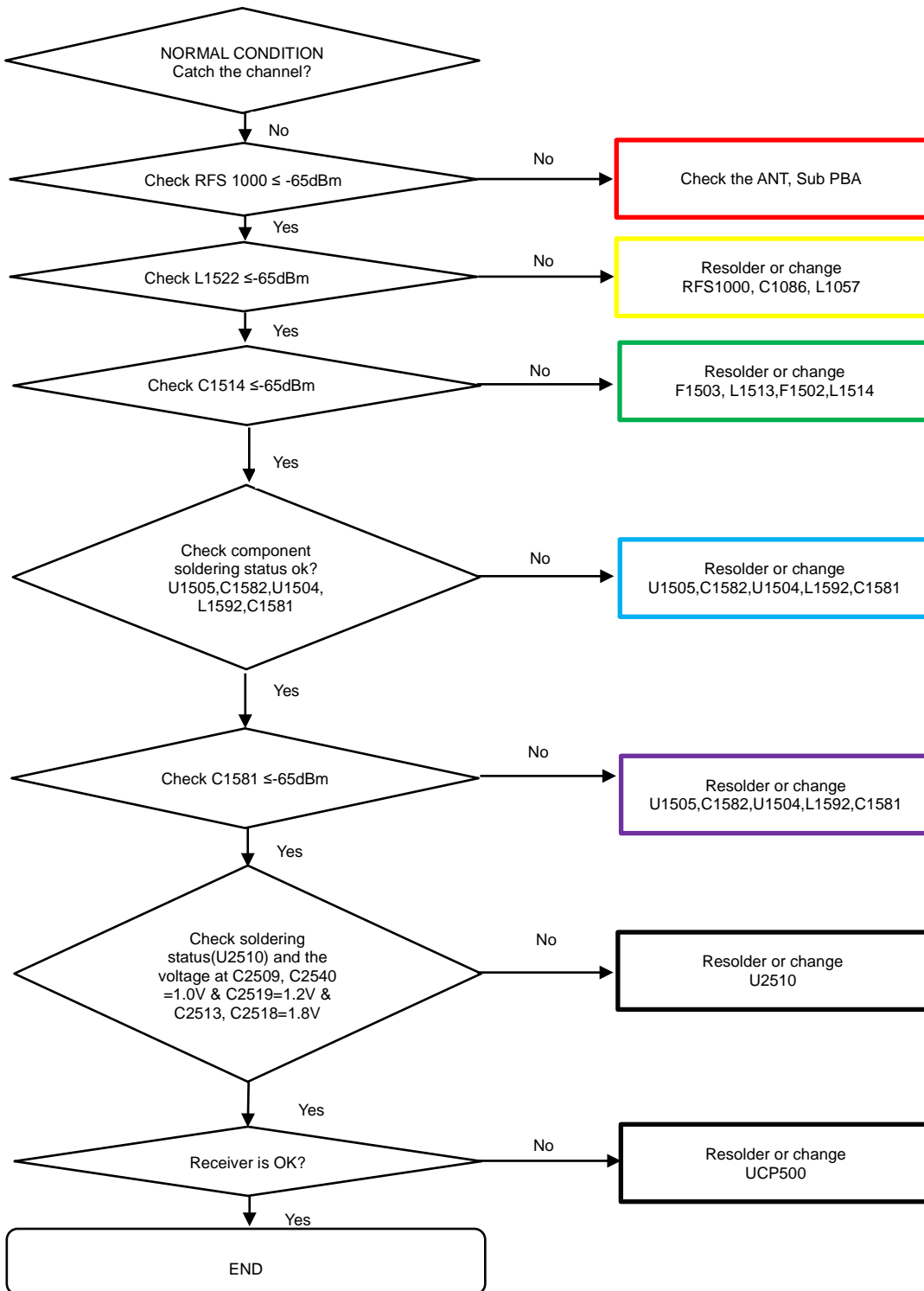
8. Level 3 Repair

8-4-30. LTE B7/38/40/41 RX



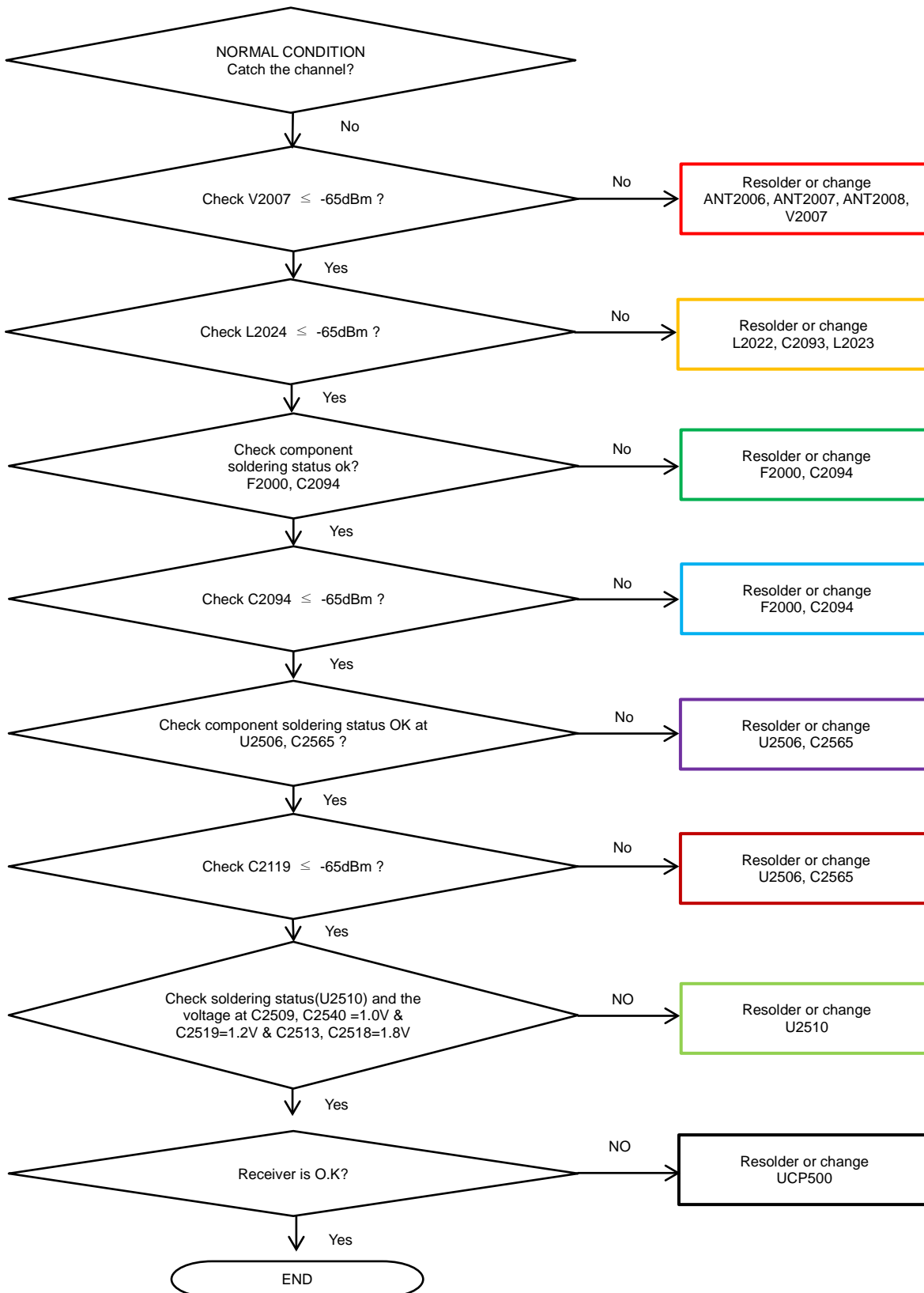
8. Level 3 Repair

8-4-31. LTE B42 RX



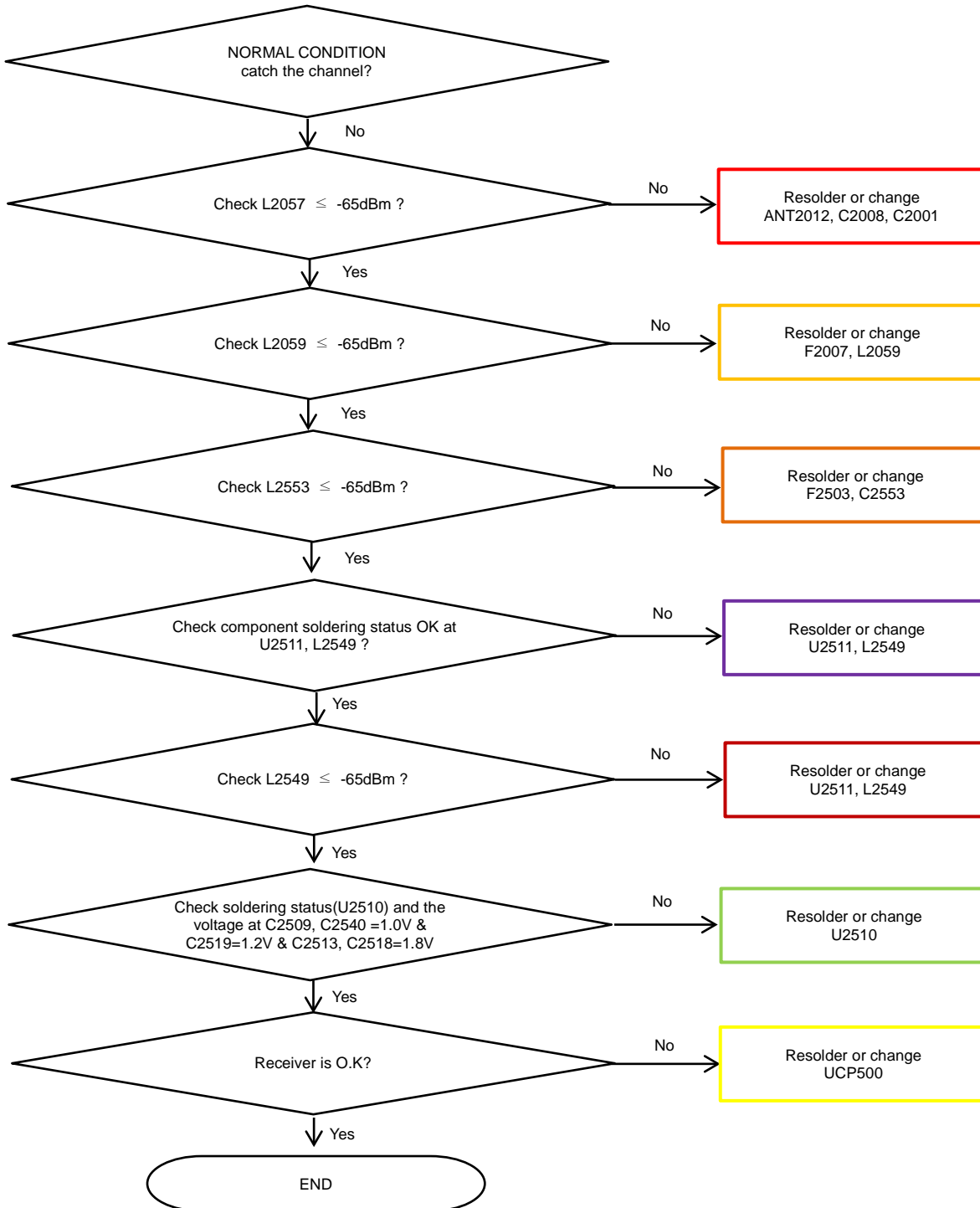
8. Level 3 Repair

8-4-32. GSM 850/900, WCDMA B5/6/19, LTE B5/12/13/17/19/26/28 DRX



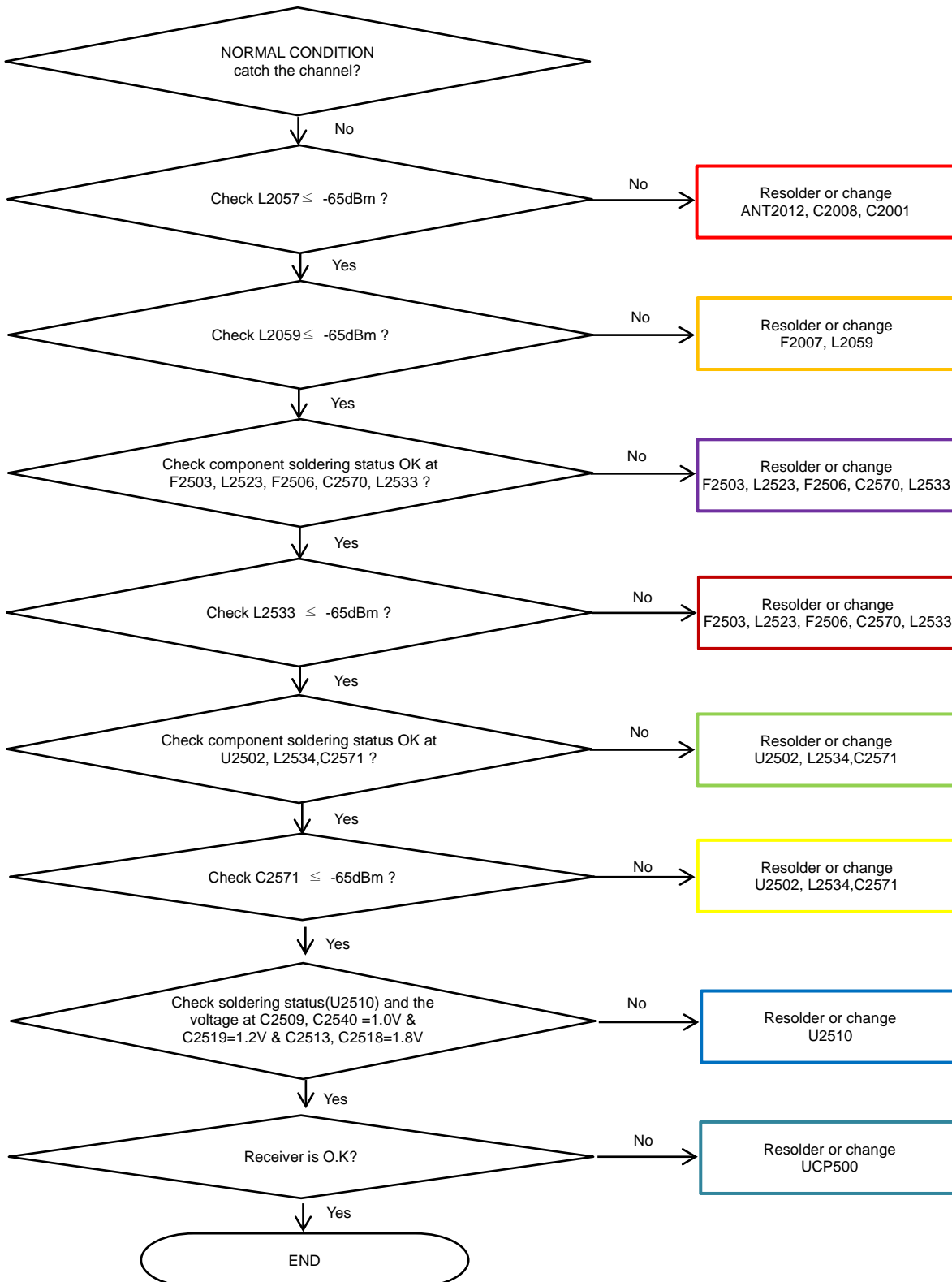
8. Level 3 Repair

8-4-33. GSM1800/1900, WCDMA B1, LTE B1/3/4/7/21/38/40/41 DRX



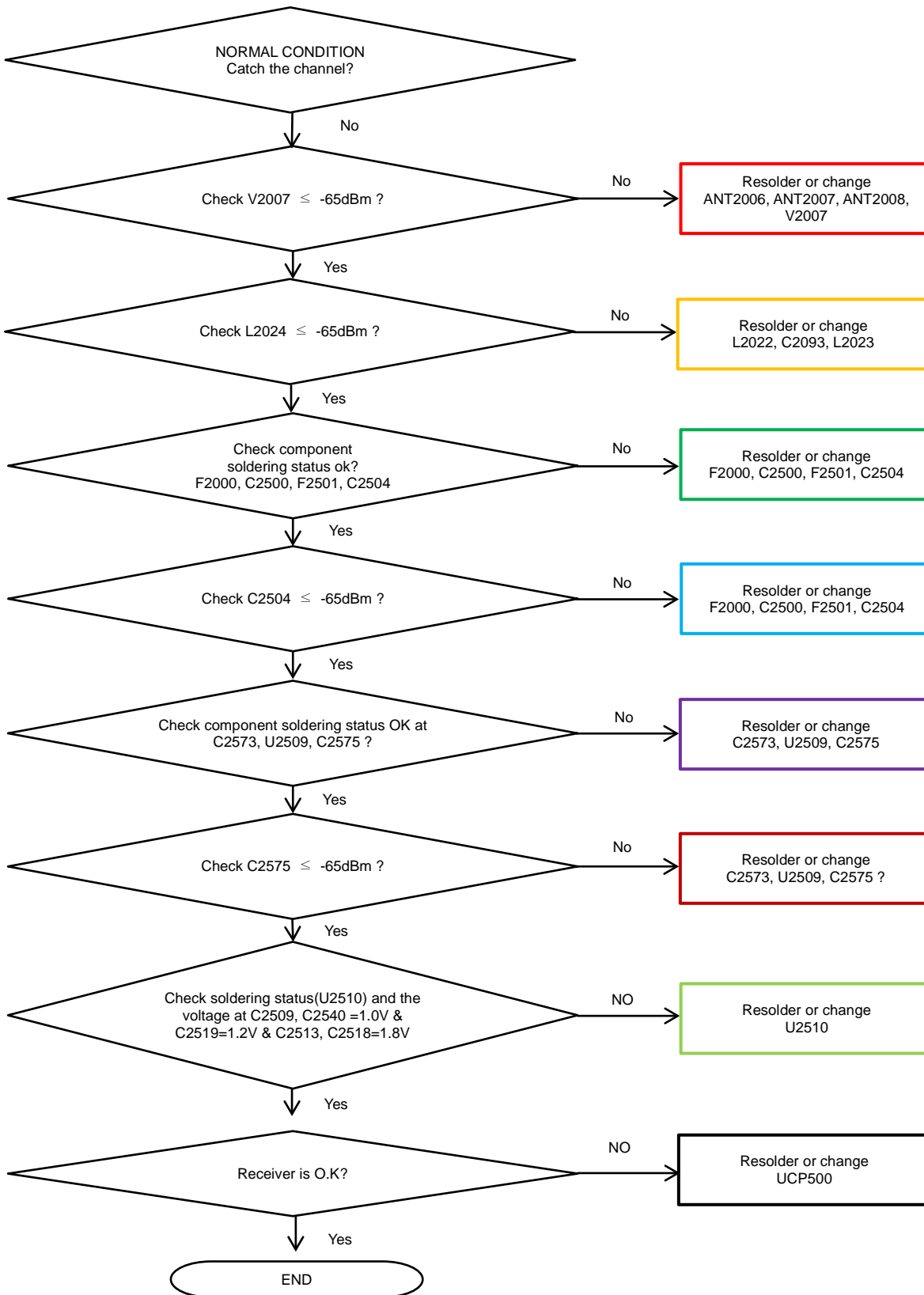
8. Level 3 Repair

8-4-34. LTE 42 DRX



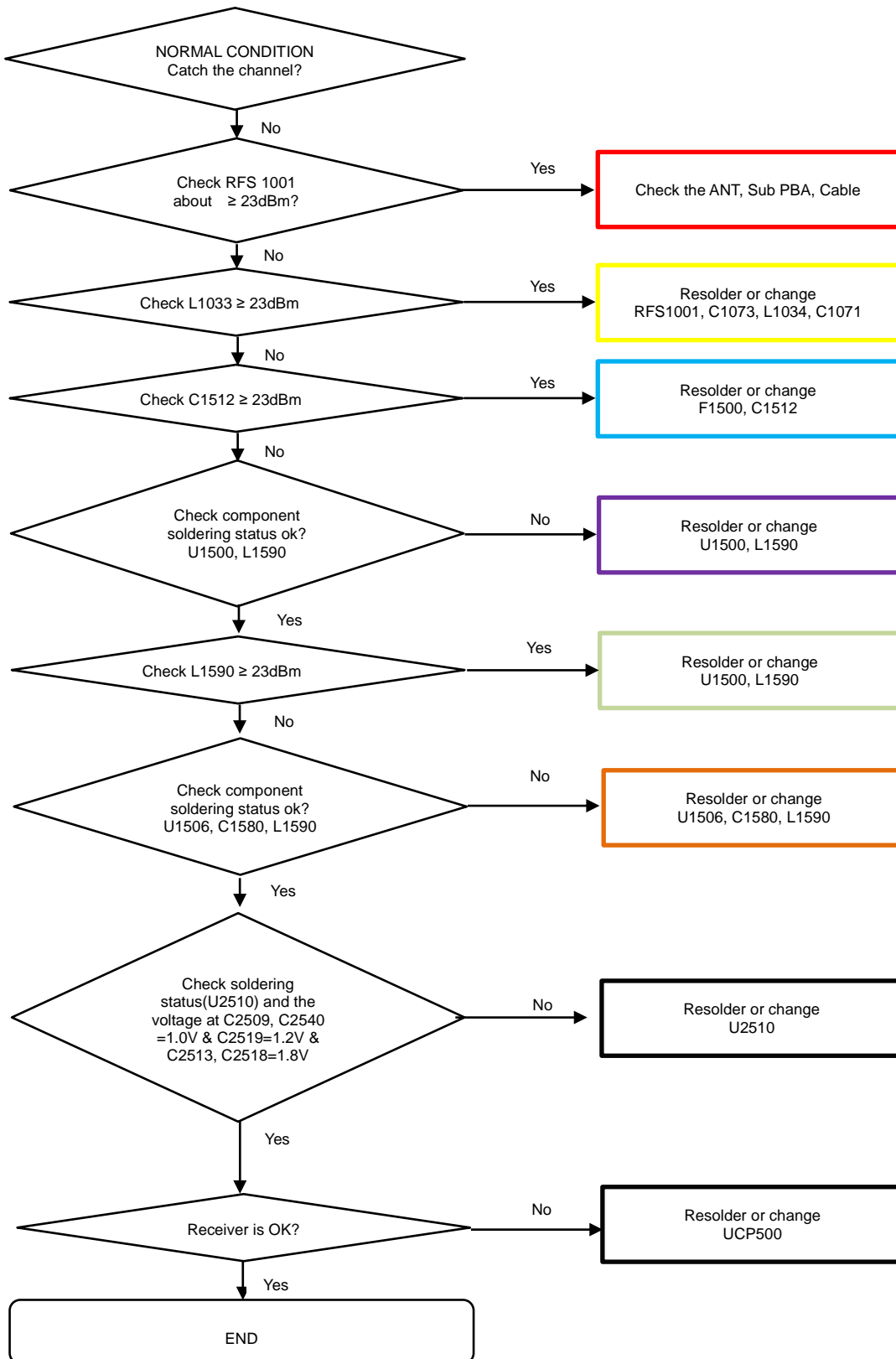
8. Level 3 Repair

8-4-35. LTE B39 DRX



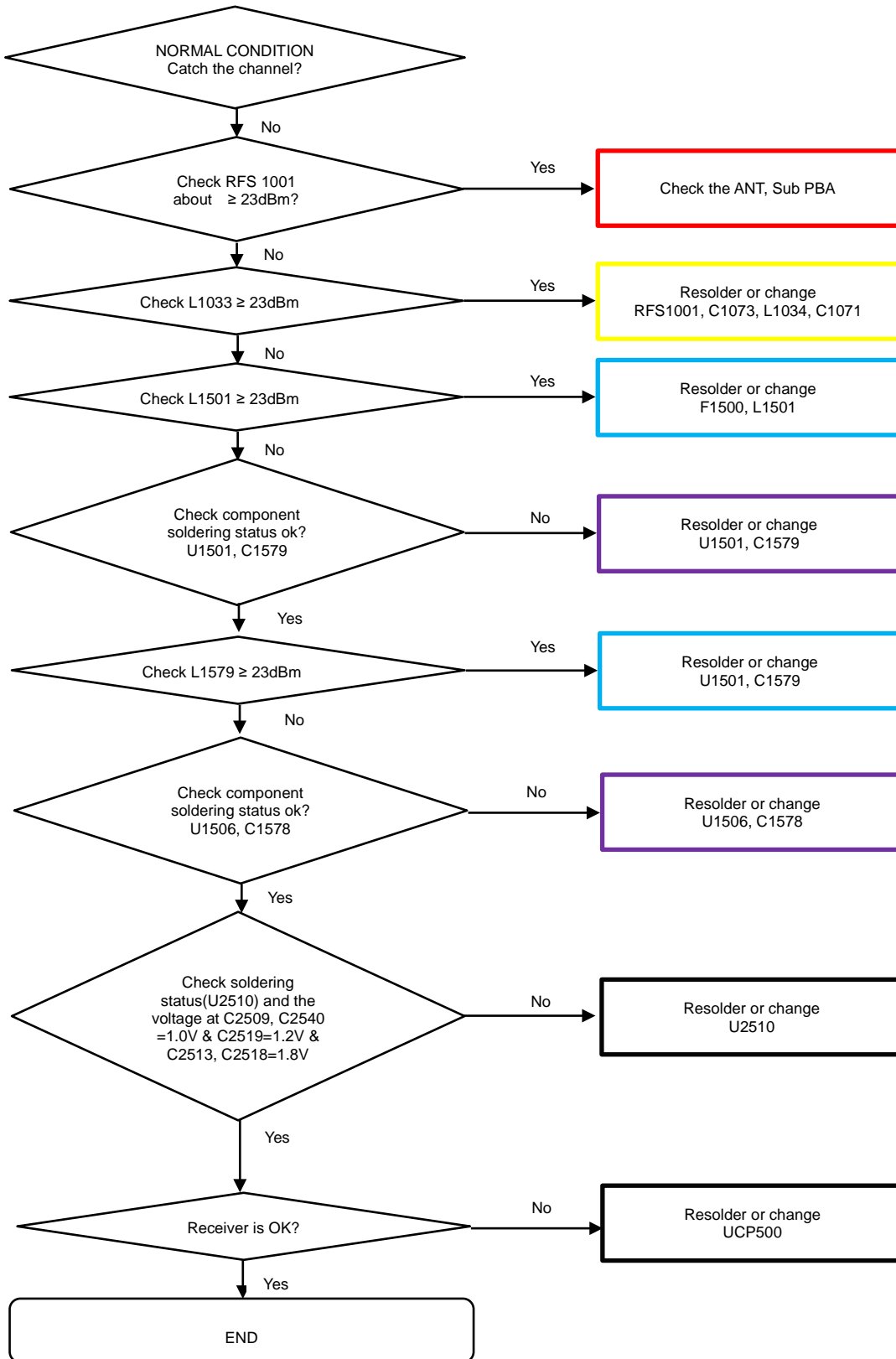
8. Level 3 Repair

8-4-36. GSM 850/900 TX



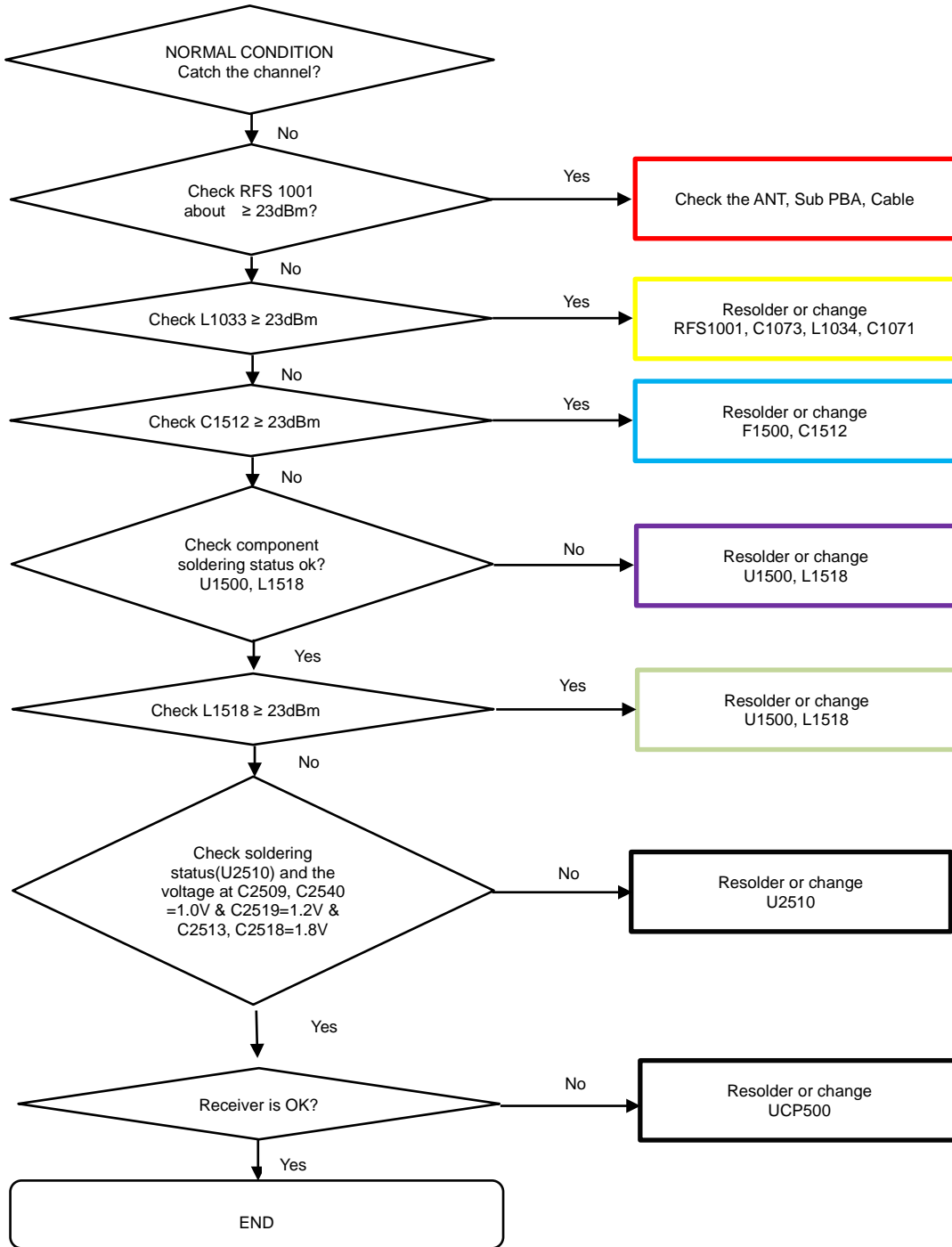
8. Level 3 Repair

8-4-37. GSM 1800/1900 TX



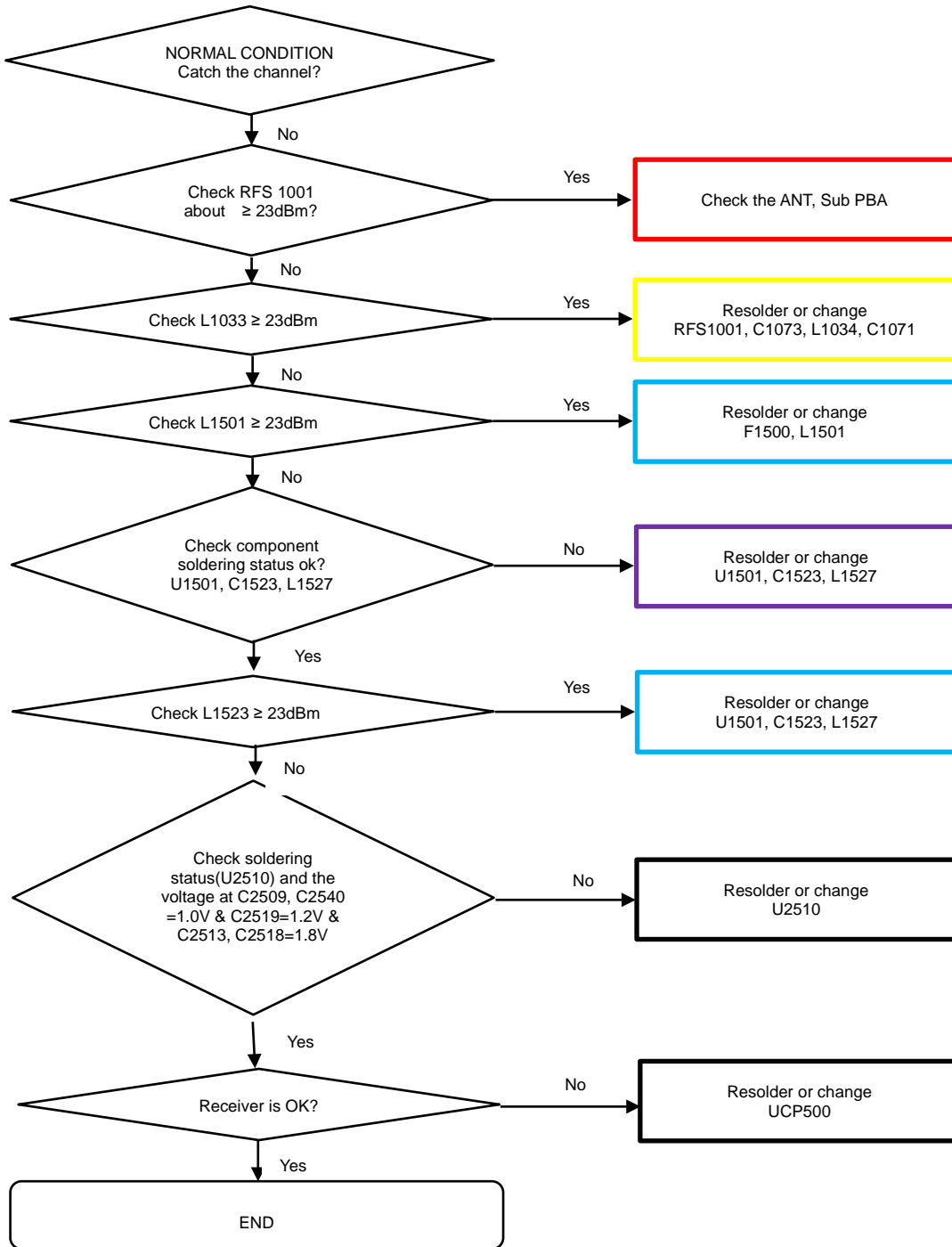
8. Level 3 Repair

8-4-38. WCDMA B5/6/19, LTE B5/12/13/17/19/26/28 TX



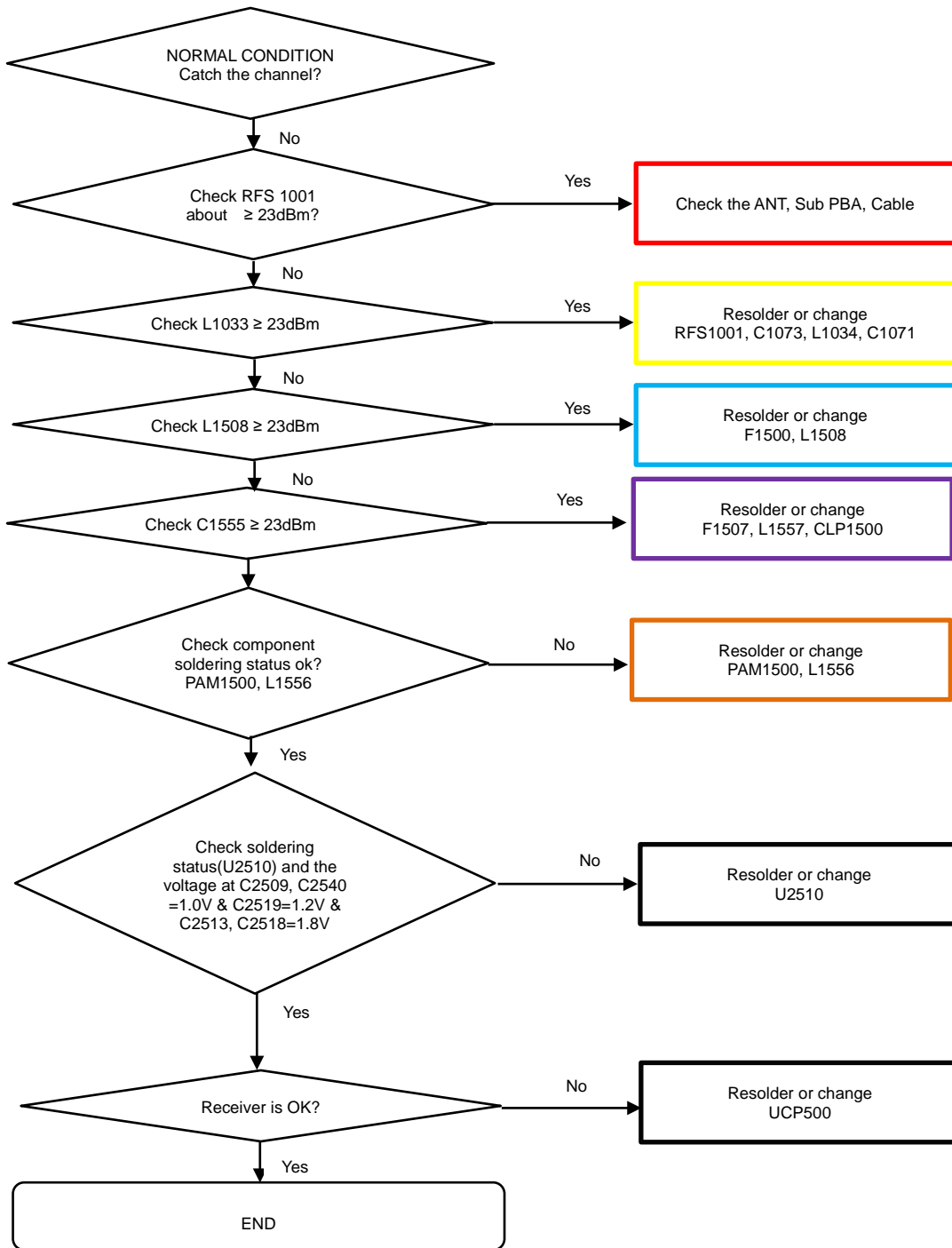
8. Level 3 Repair

8-4-39. WCDMA B1, LTE B1/3/4/39 TX



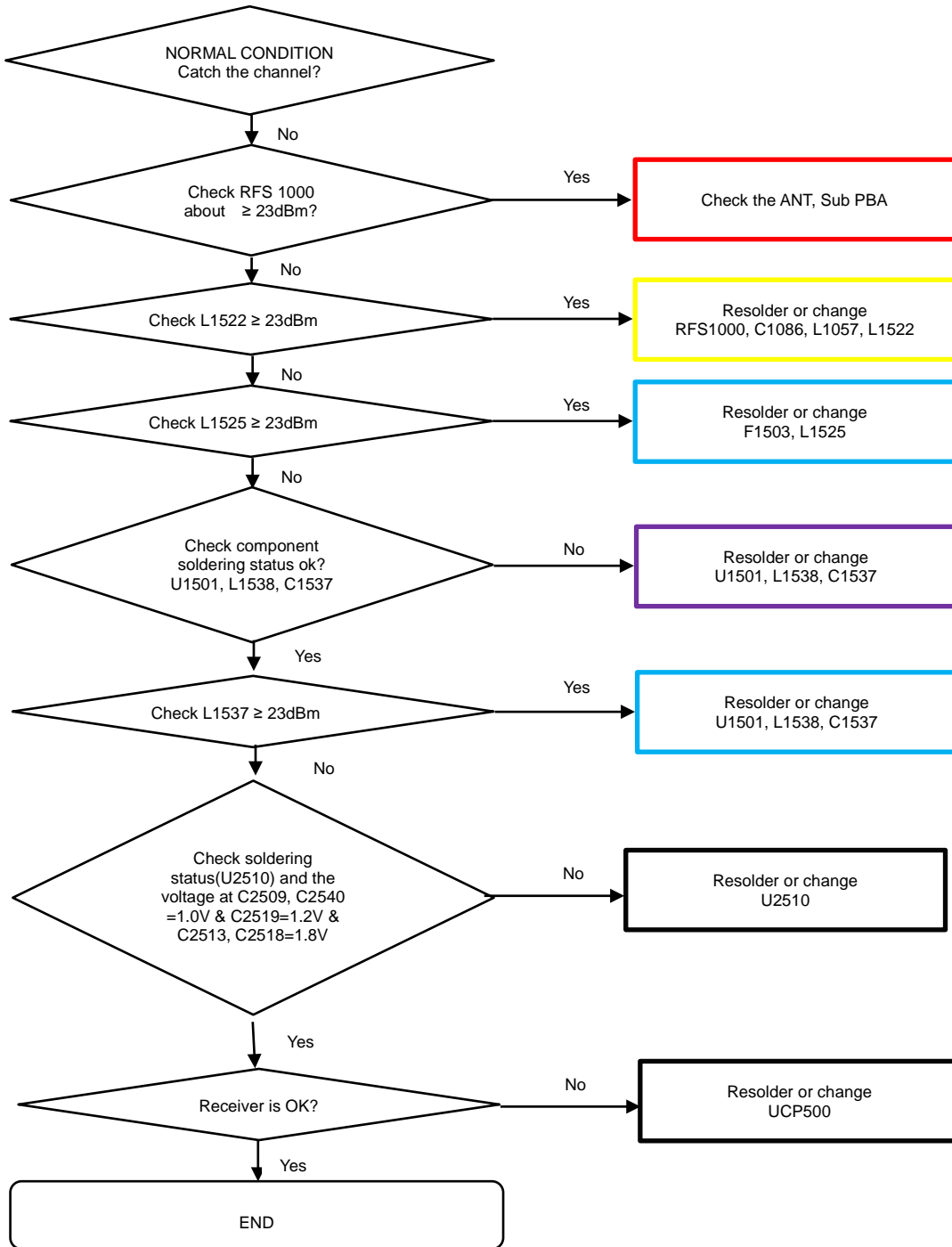
8. Level 3 Repair

8-4-40. LTE B21 TX



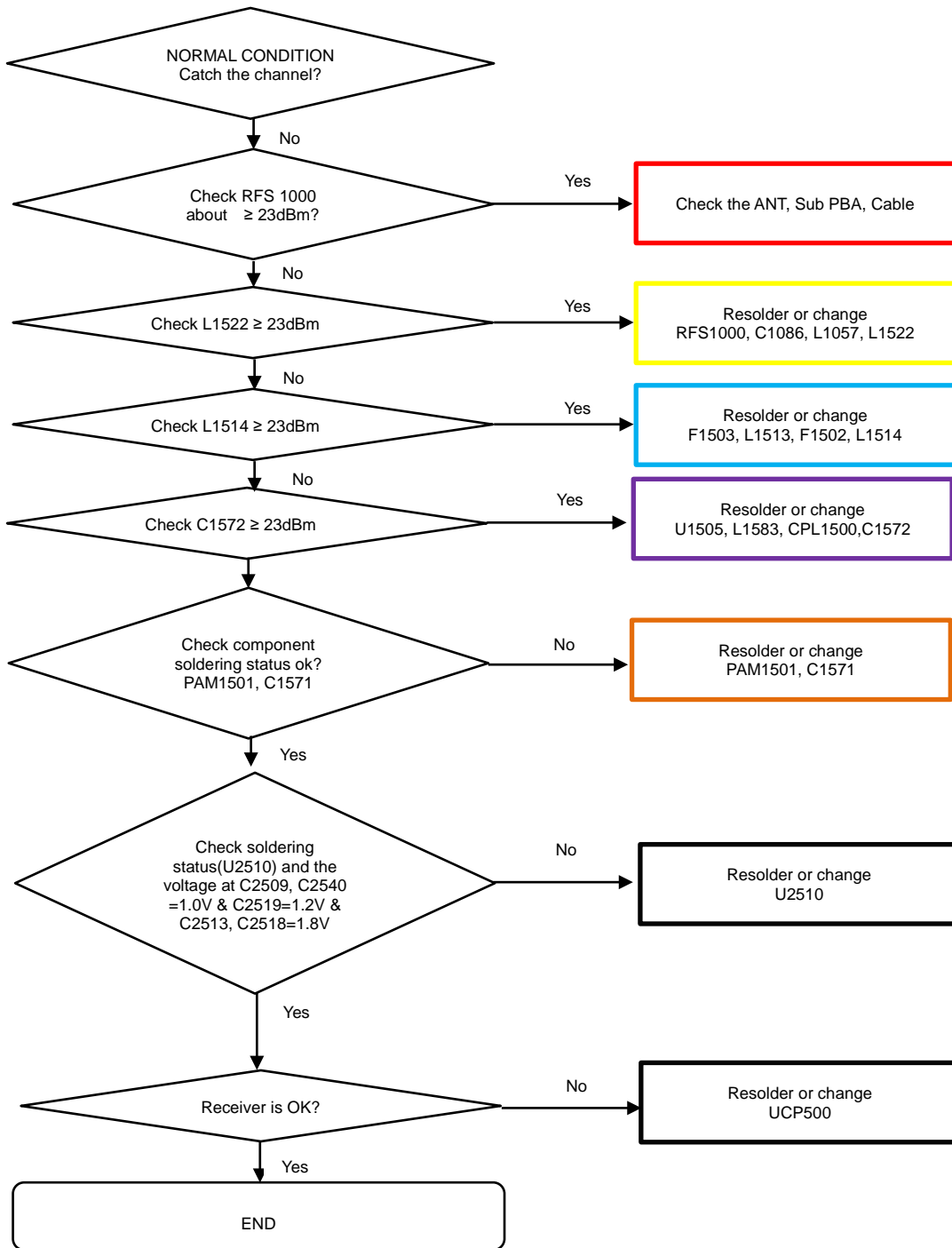
8. Level 3 Repair

8-4-41. LTE B7/38/40/41 TX



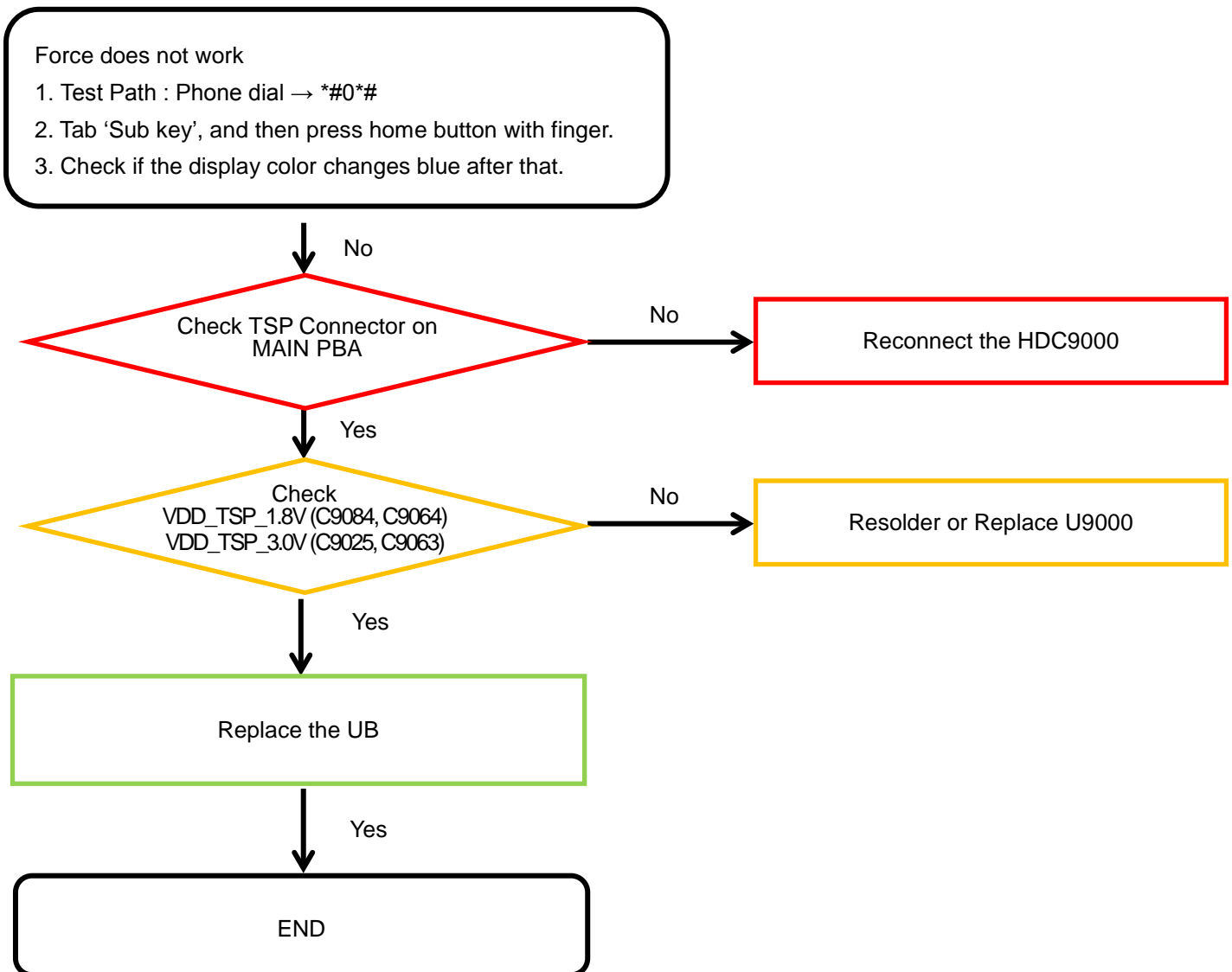
8. Level 3 Repair

8-4-42. LTE B42 TX



8. Level 3 Repair

8-4-43. Force Touch



8. Level 3 Repair

8-4-44. Dex Station

