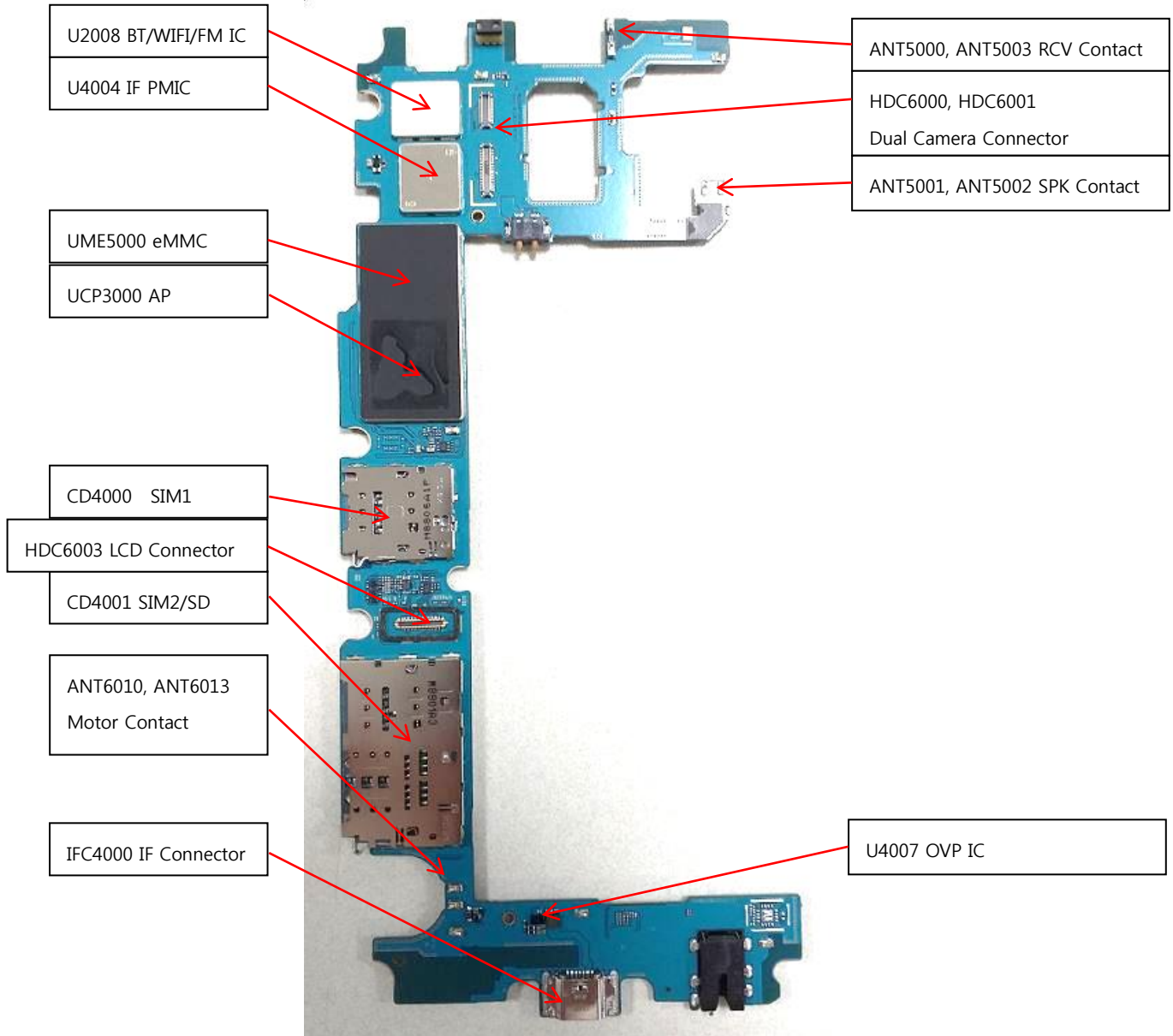


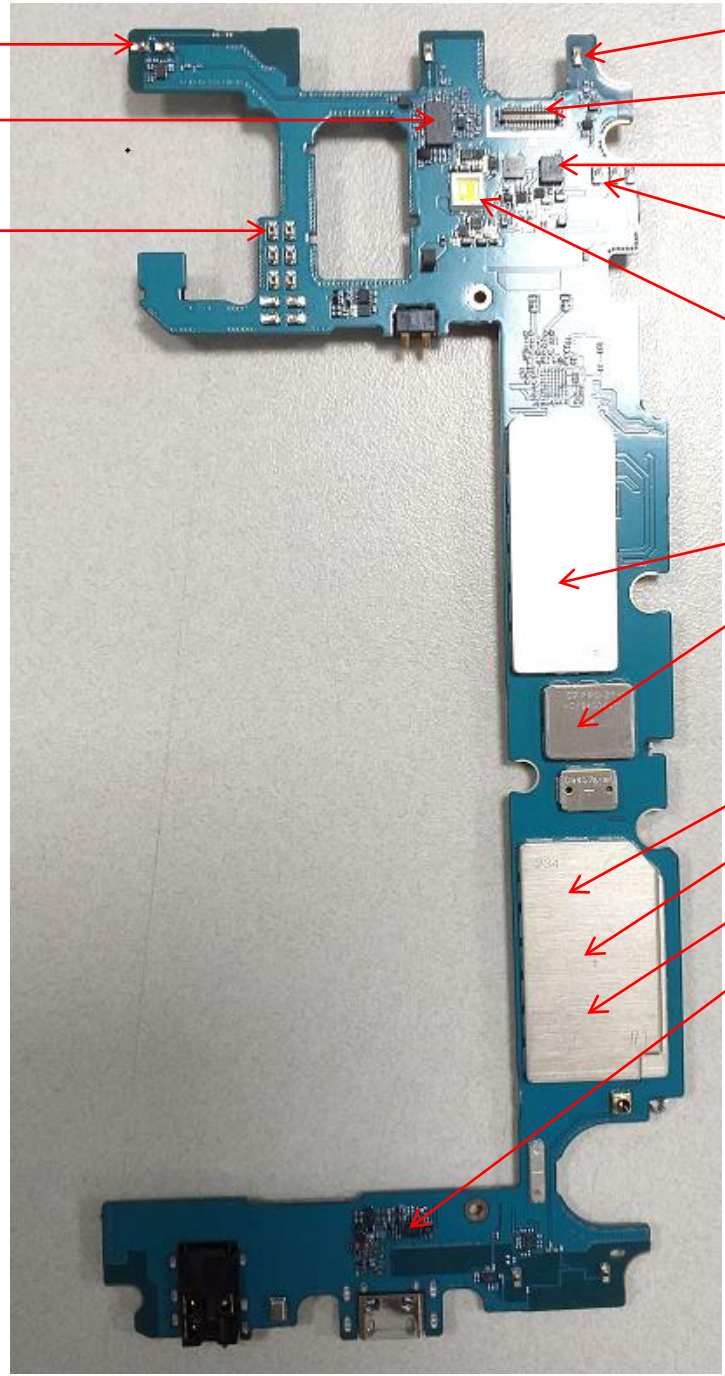
## 8. Level 3 Repair

### 8-1. Components Layout



# 8. Level 3 Repair

- ANT2000, ANT2001 DIV ANT
- U2005 DIV Module
- ANT6000~ANT6008  
BTP Contact



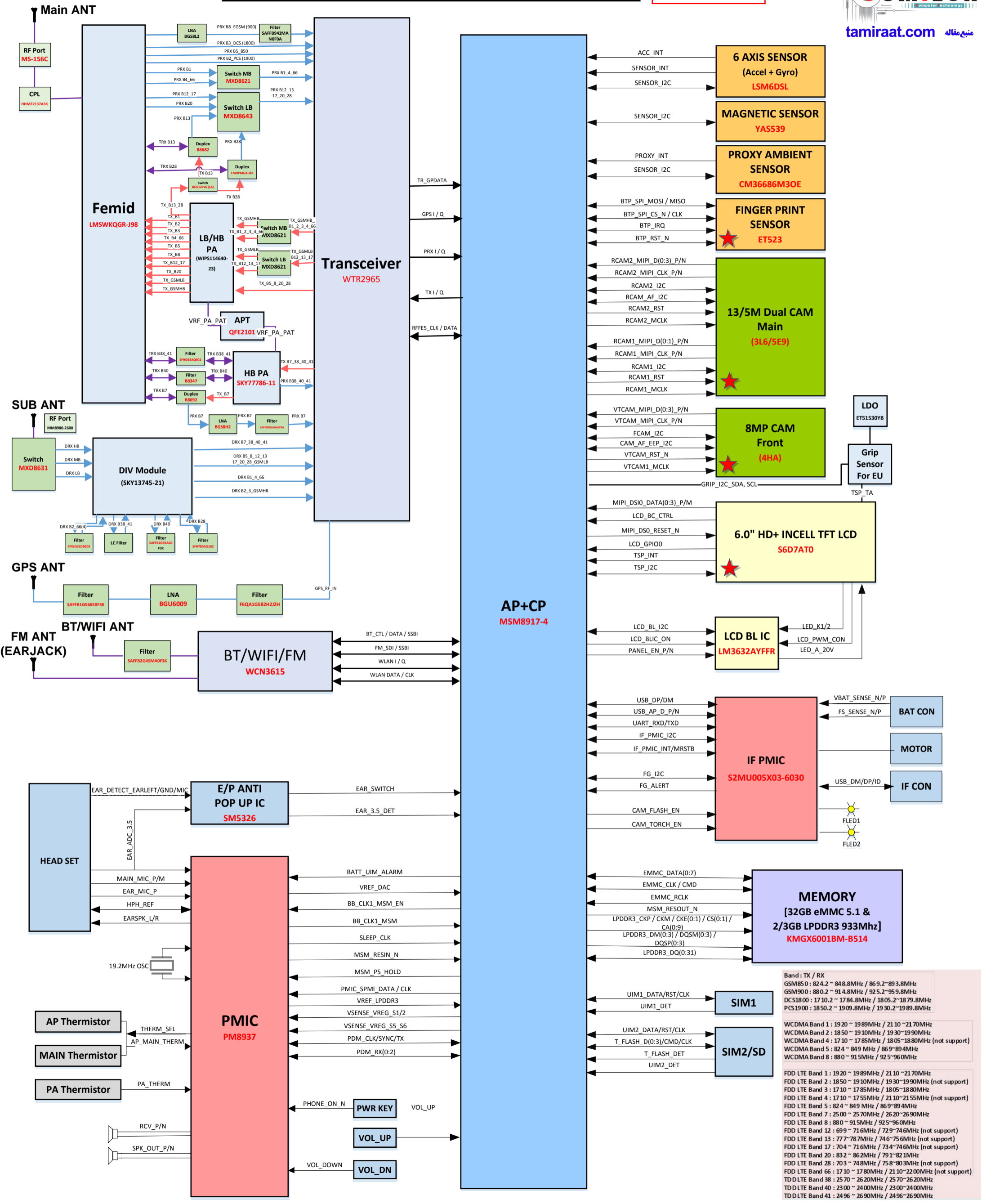
- ANT2003 GPS Contact
- HDC6002 Front CAM Connector
- U6016 6-Axis Sensor
- ANT6009, ANT6014 Vol key con.  
ANT6011 PWR Key con
- LED4000 Flash LED

- PM4000 PMIC
- U6009 GPS IC

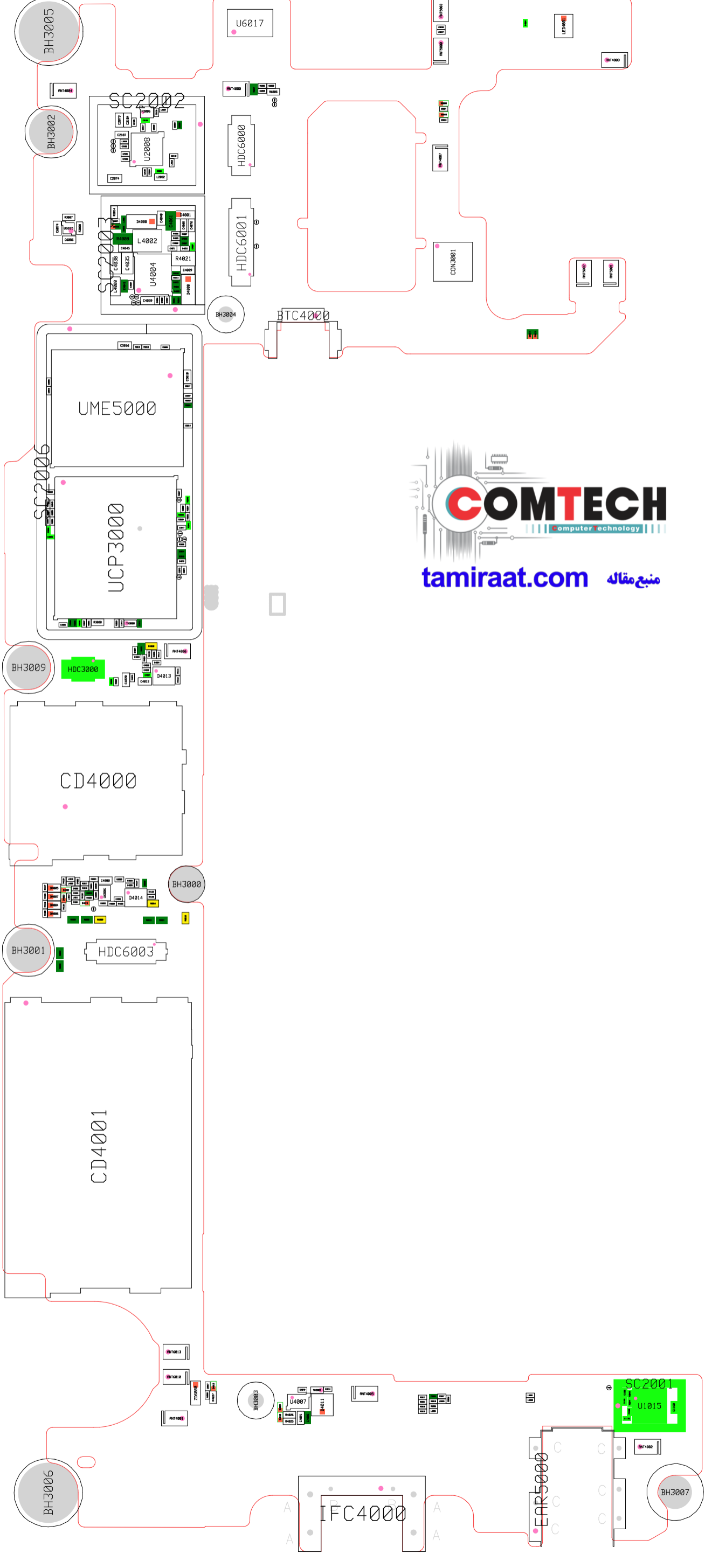
- U1016 Tranceiver
- U1003 FEMiD
- PAM1000 LB/MB PA
- U5000 E/P ANTI POP UP IC

# SM-J610F/DS Block Diagram REV1.0

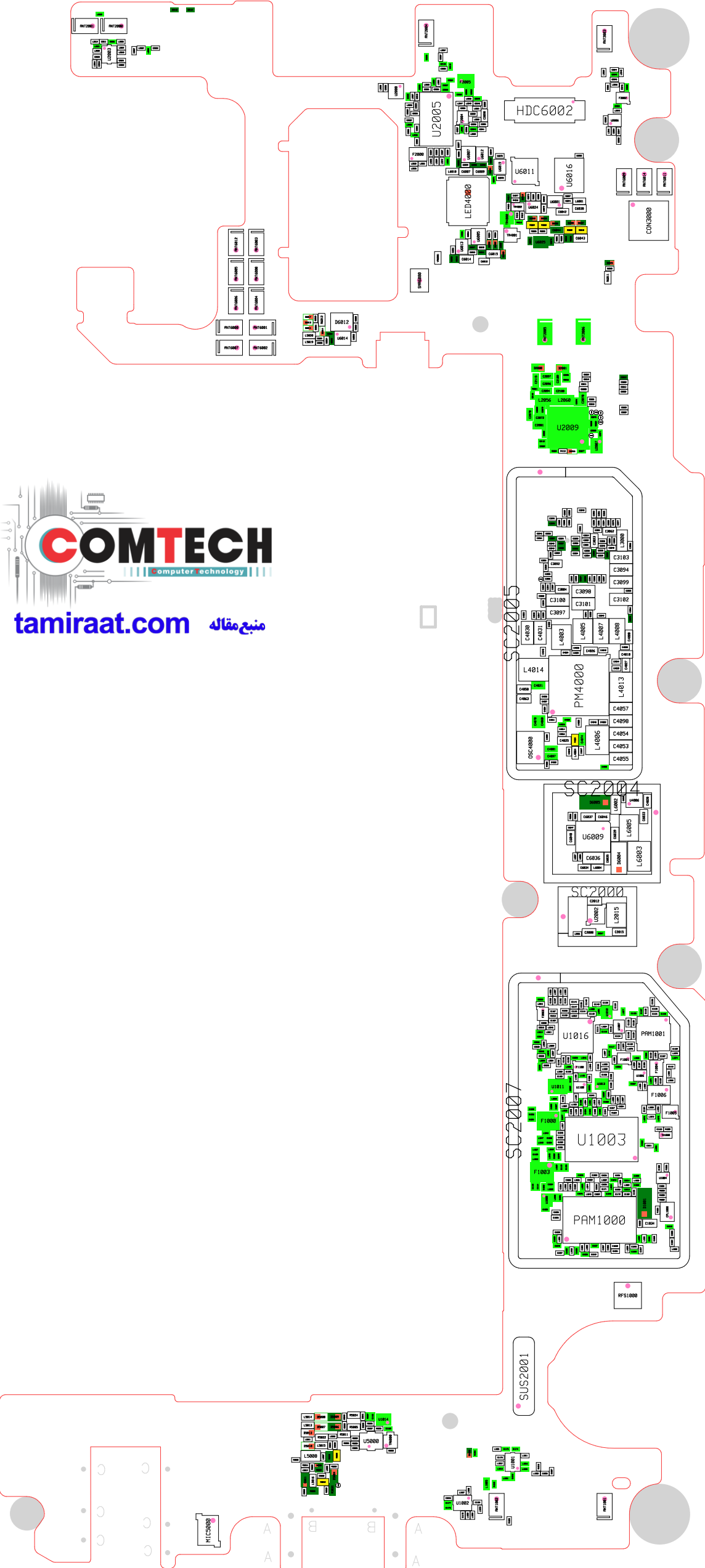
SM - J610F/FN  
Common

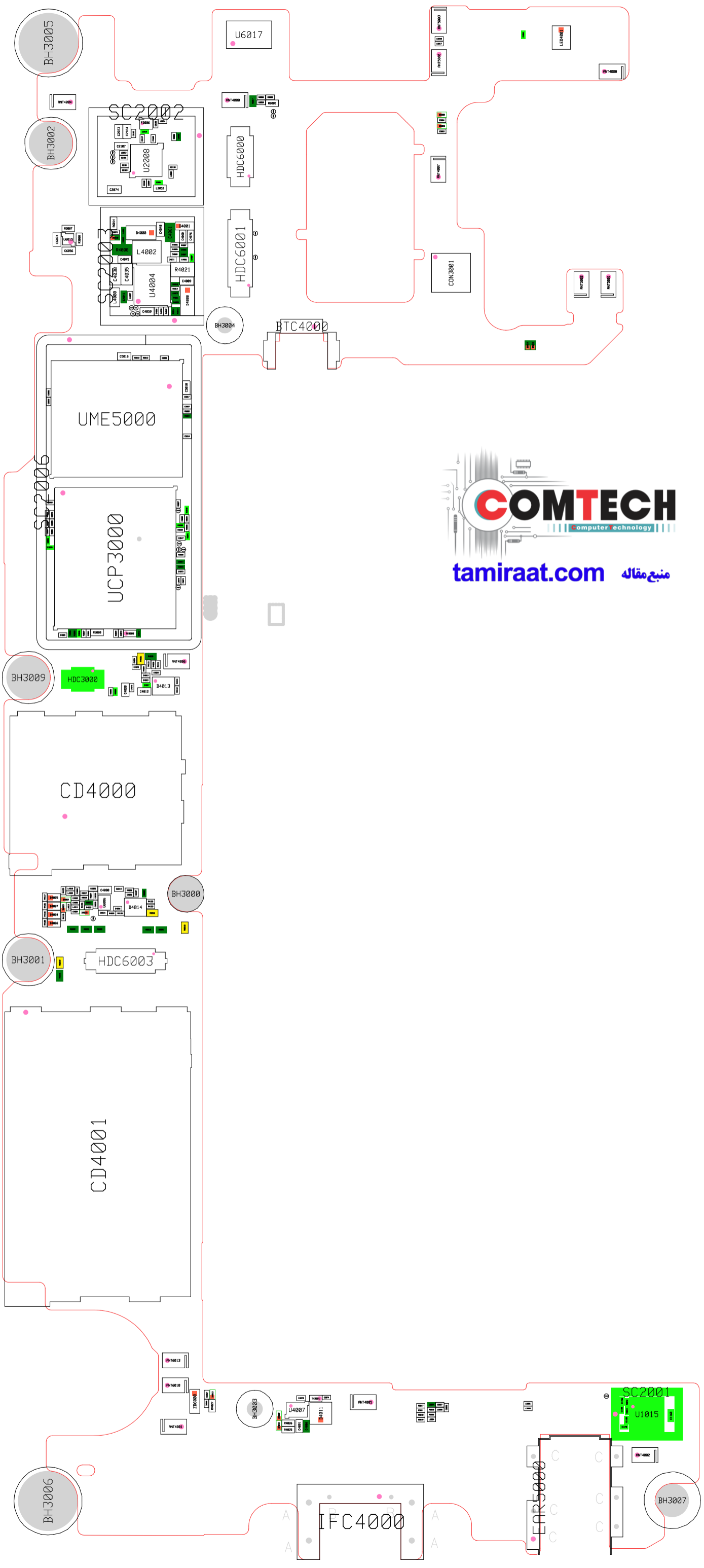


Band	TX / RX
GSM850	: 824.2 ~ 848.8MHz / 869.2~893.8MHz
GSM900	: 880.2 ~ 914.8MHz / 925.2~959.8MHz
DCS1800	: 1710.2 ~ 1784.8MHz / 1805.2~1879.8MHz
PCS1900	: 1850.2 ~ 1909.8MHz / 1930.2~1989.8MHz
WCDMA Band 1	: 1920 ~ 1989MHz / 2110 ~2170MHz
WCDMA Band 2	: 1850 ~ 1910MHz / 1930~1990MHz (not support)
WCDMA Band 4	: 1710 ~ 1785MHz / 1805~1880MHz (not support)
WCDMA Band 5	: 824 ~ 849 MHz / 869~894MHz
WCDMA Band 8	: 880 ~ 915MHz / 925~960MHz
FDD LTE Band 1	: 1920 ~ 1989MHz / 2110 ~2170MHz
FDD LTE Band 2	: 1850 ~ 1910MHz / 1930~1990MHz (not support)
FDD LTE Band 3	: 1710 ~ 1785MHz / 1805~1880MHz
FDD LTE Band 4	: 1710 ~ 1755MHz / 2110~2155MHz (not support)
FDD LTE Band 5	: 824 ~ 849 MHz / 869~894MHz
FDD LTE Band 7	: 2500 ~ 2570MHz / 2620~2690MHz
FDD LTE Band 8	: 880 ~ 915MHz / 925~960MHz
FDD LTE Band 12	: 699 ~ 716MHz / 729~746MHz (not support)
FDD LTE Band 13	: 777~787MHz / 746~756MHz (not support)
FDD LTE Band 17	: 704 ~ 716MHz / 734~746MHz (not support)
FDD LTE Band 20	: 832 ~ 862MHz / 791~821MHz
FDD LTE Band 28	: 703 ~ 748MHz / 758~803MHz (not support)
FDD LTE Band 66	: 1710 ~ 1780MHz / 2110~2200MHz (not support)
TD LTE Band 38	: 2570 ~ 2620MHz / 2570~2620MHz
TD LTE Band 40	: 2300 ~ 2400MHz / 2300~2400MHz
TD LTE Band 41	: 2496 ~ 2690MHz / 2496~2690MHz



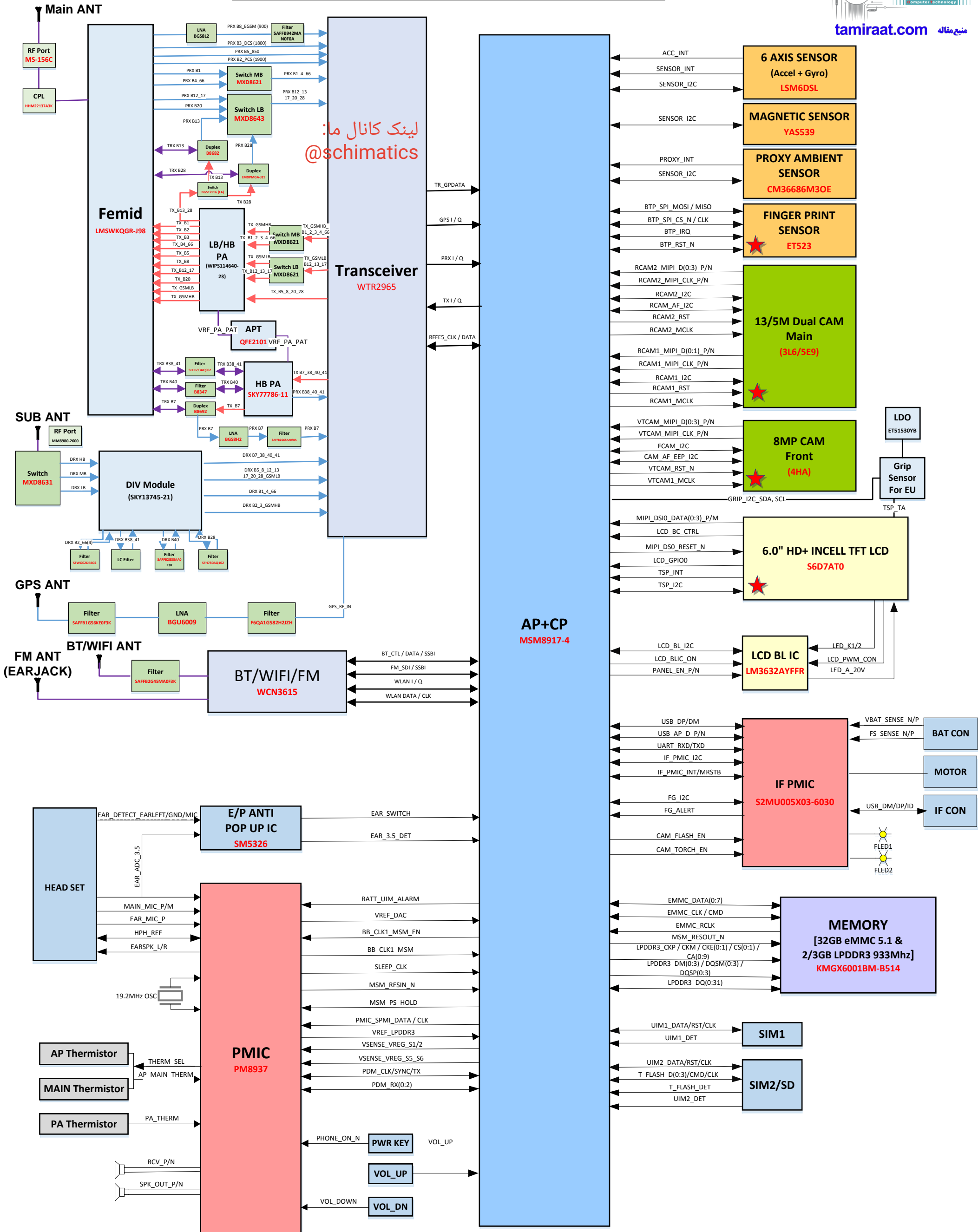
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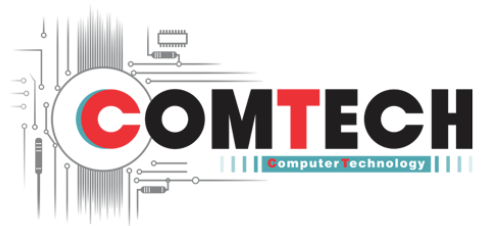
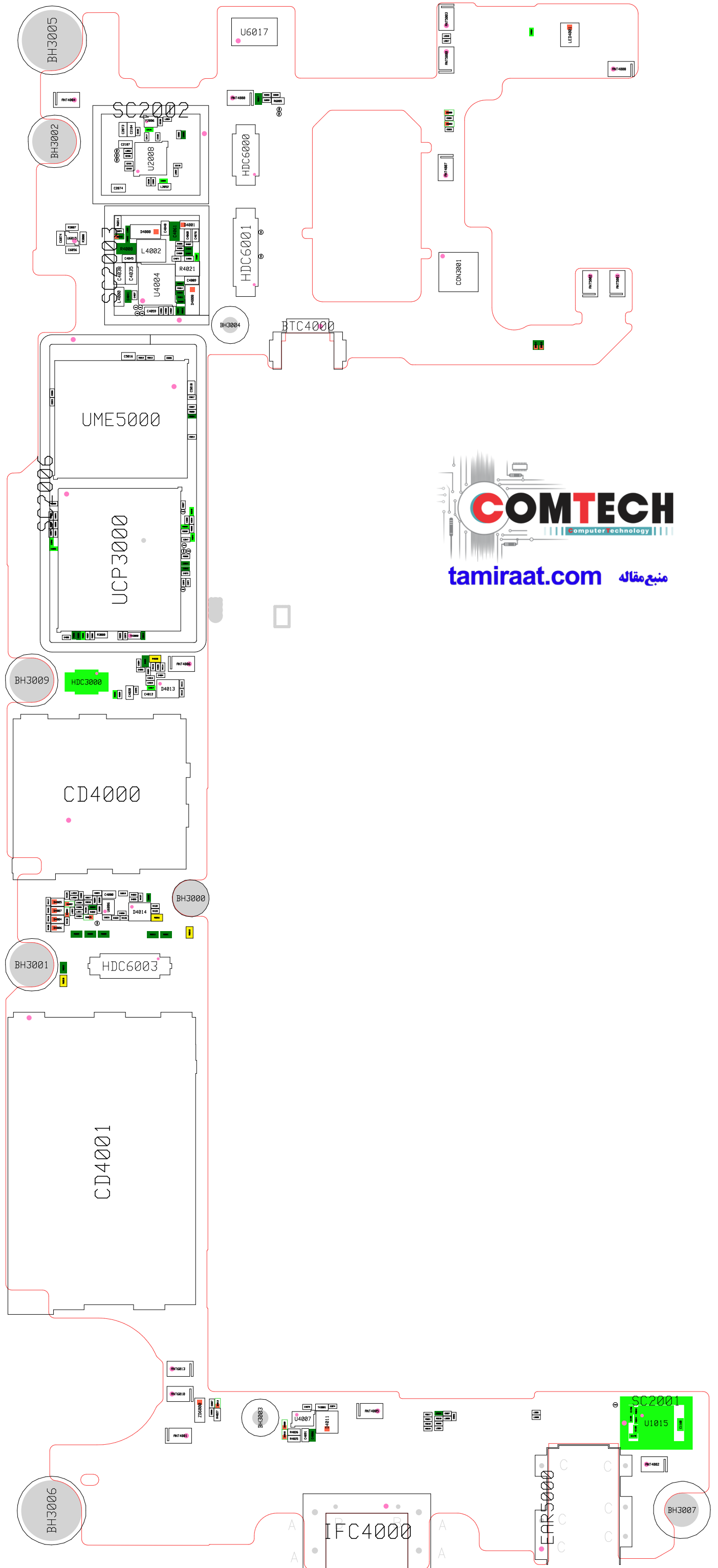


# SM-J610G/DS Block Diagram REV1.0

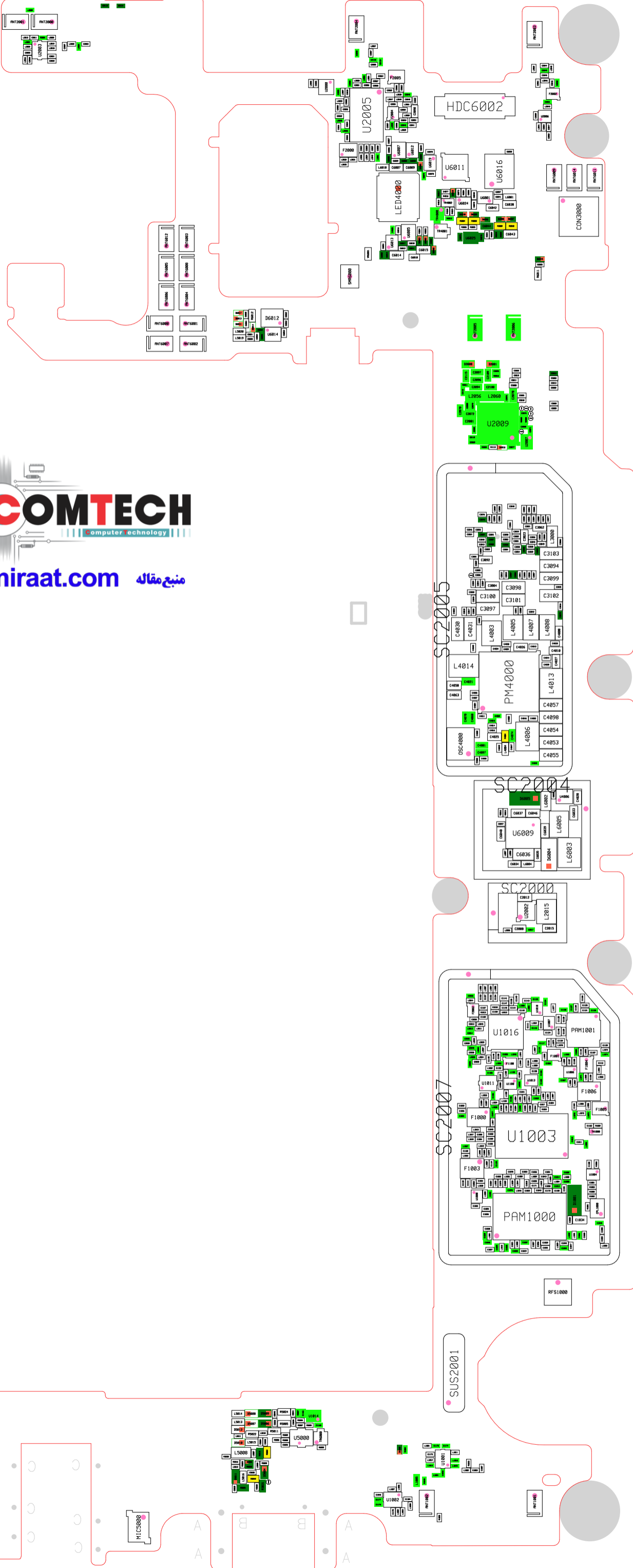


لينك كانال ما:  
@schimatics



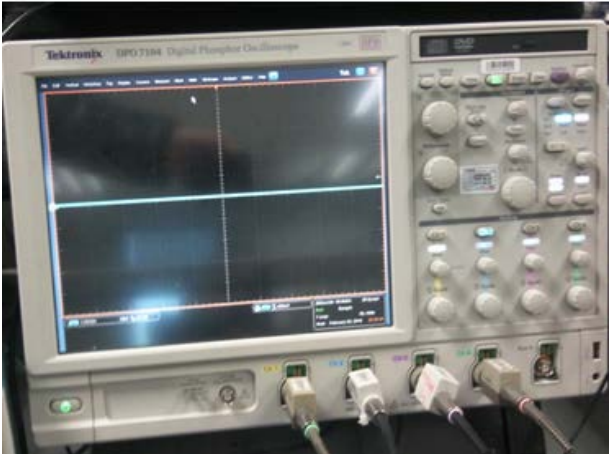

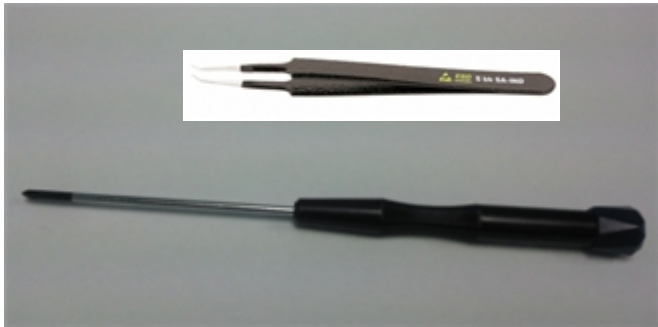
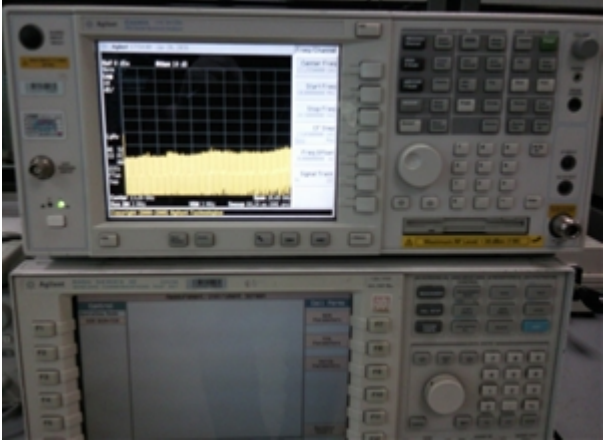



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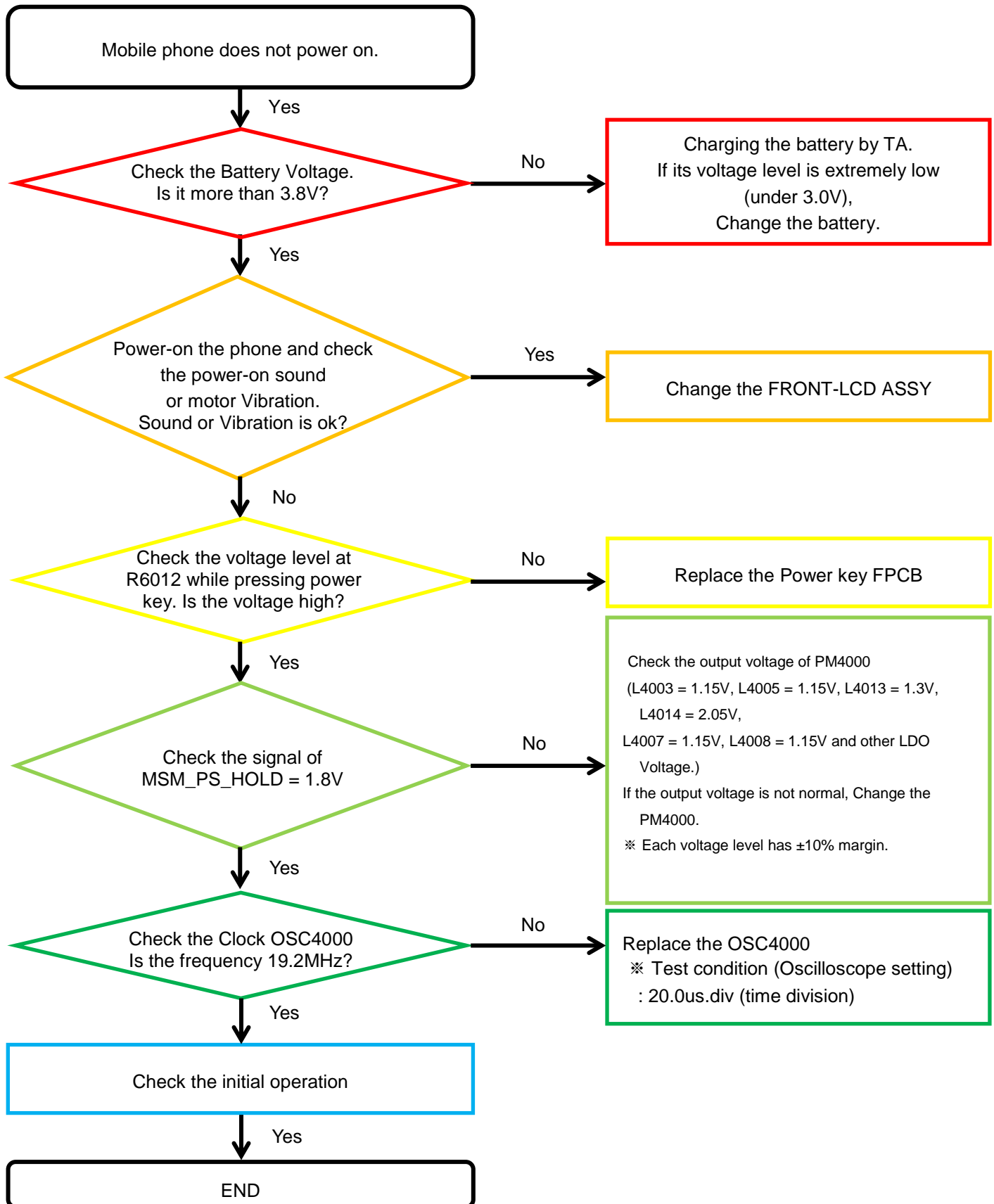
## 8. Level 3 Repair

### 8-3. Flow chart of Troubleshooting.

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

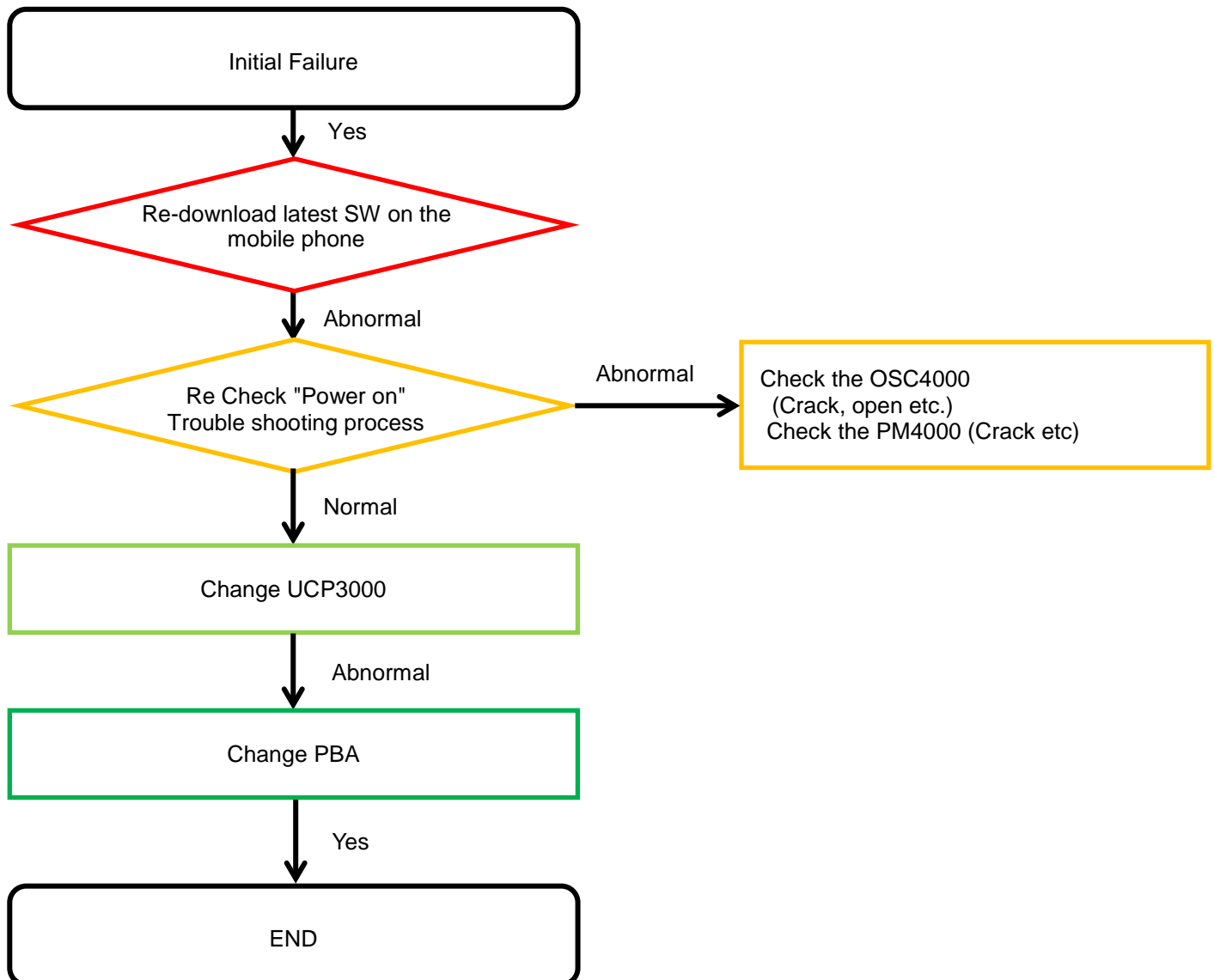
## 8. Level 3 Repair

### 8-4-1. Power On



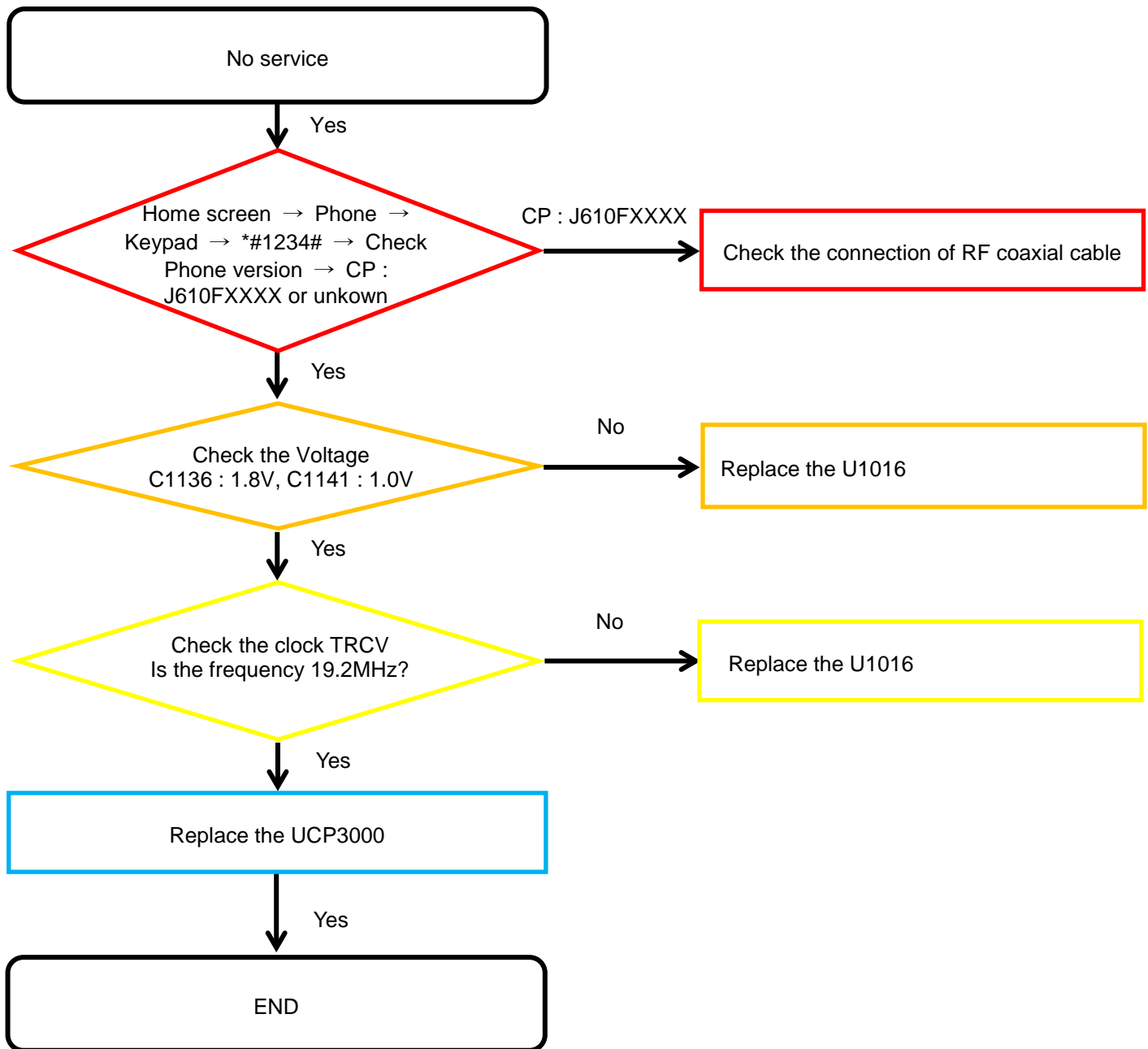
## 8. Level 3 Repair

### 8-4-2. Initial



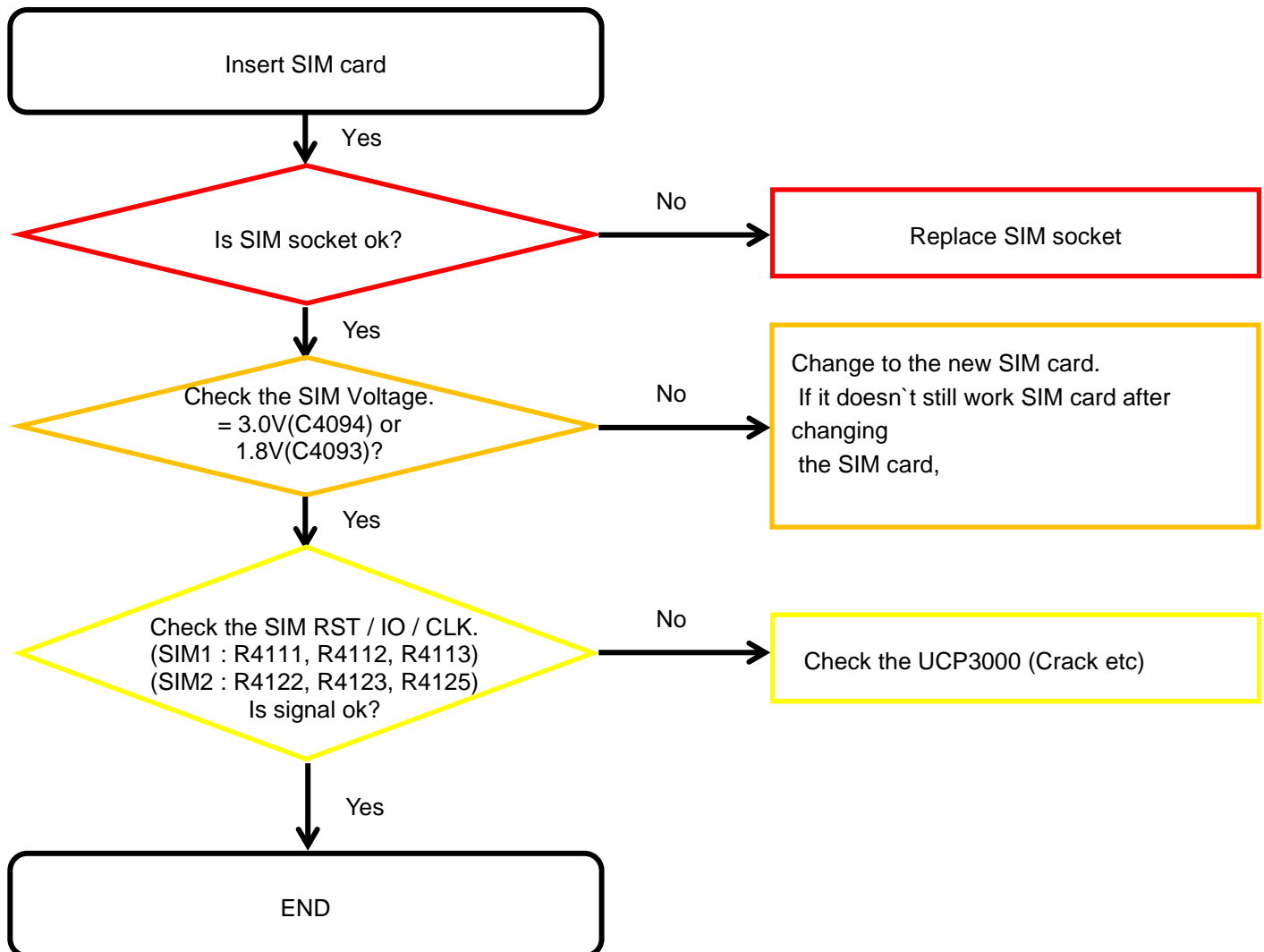
## 8. Level 3 Repair

### 8-4-3. No Service



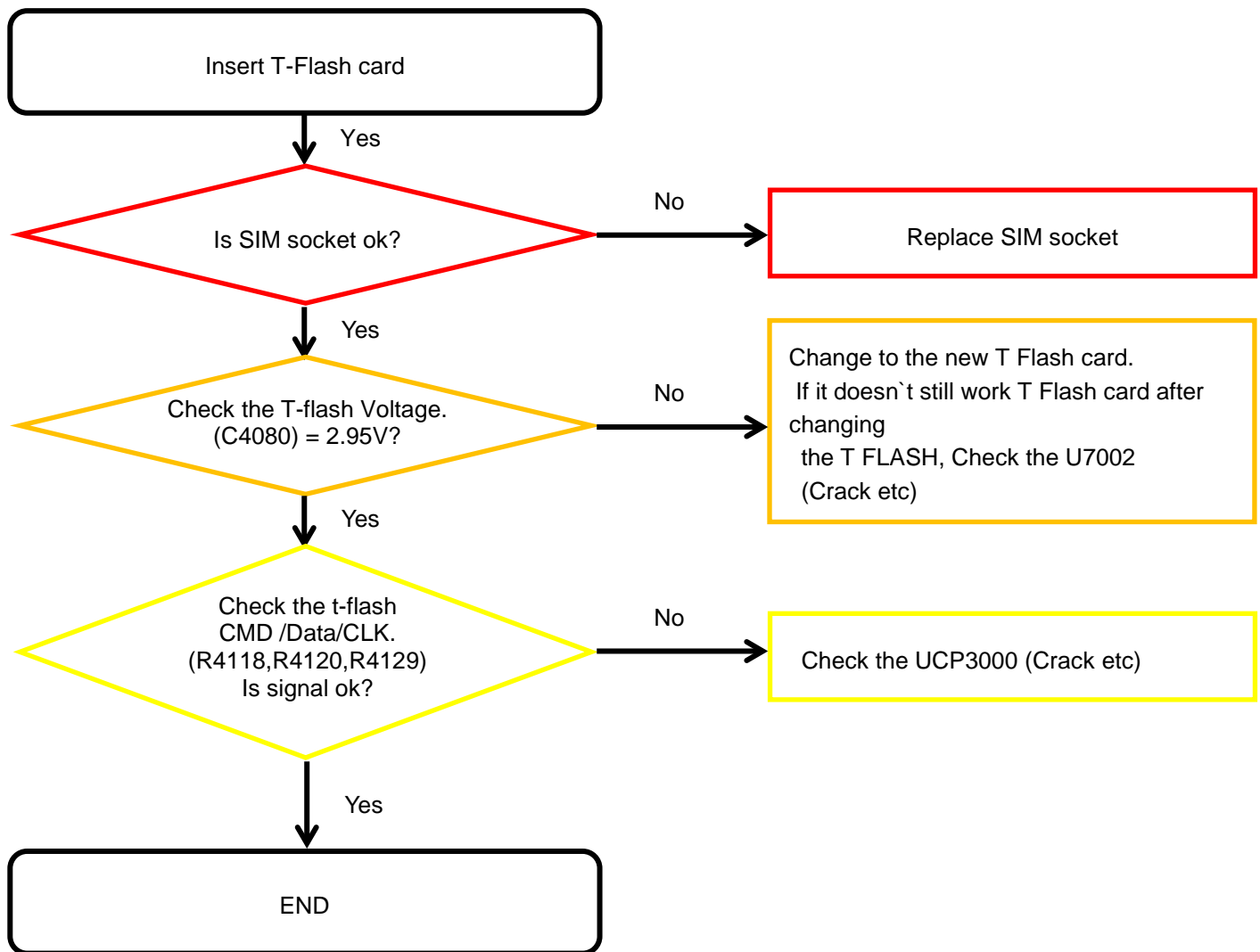
## 8. Level 3 Repair

### 8-4-4. SIM Part



## 8. Level 3 Repair

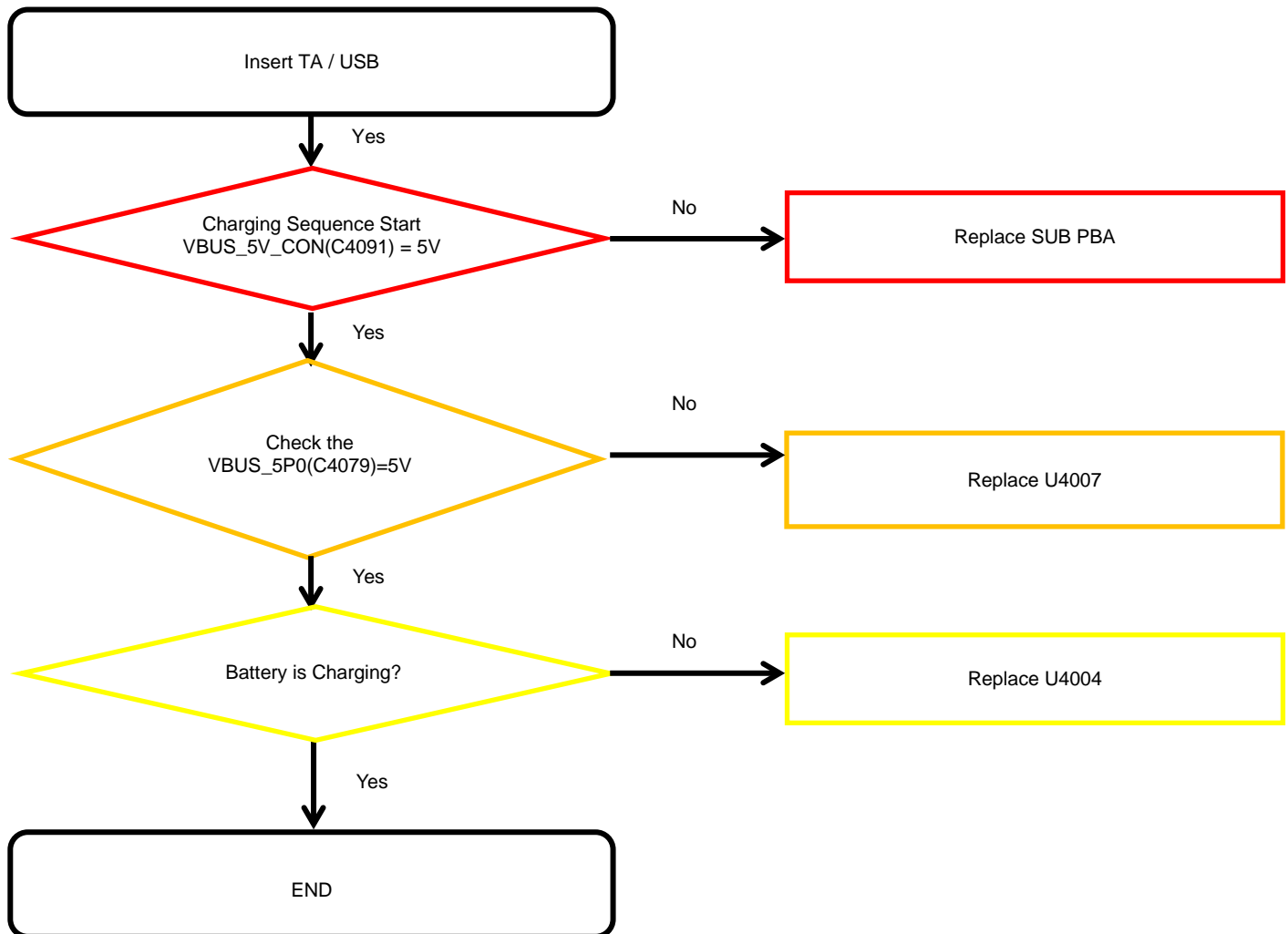
### 8-4-5. T-Flash Part





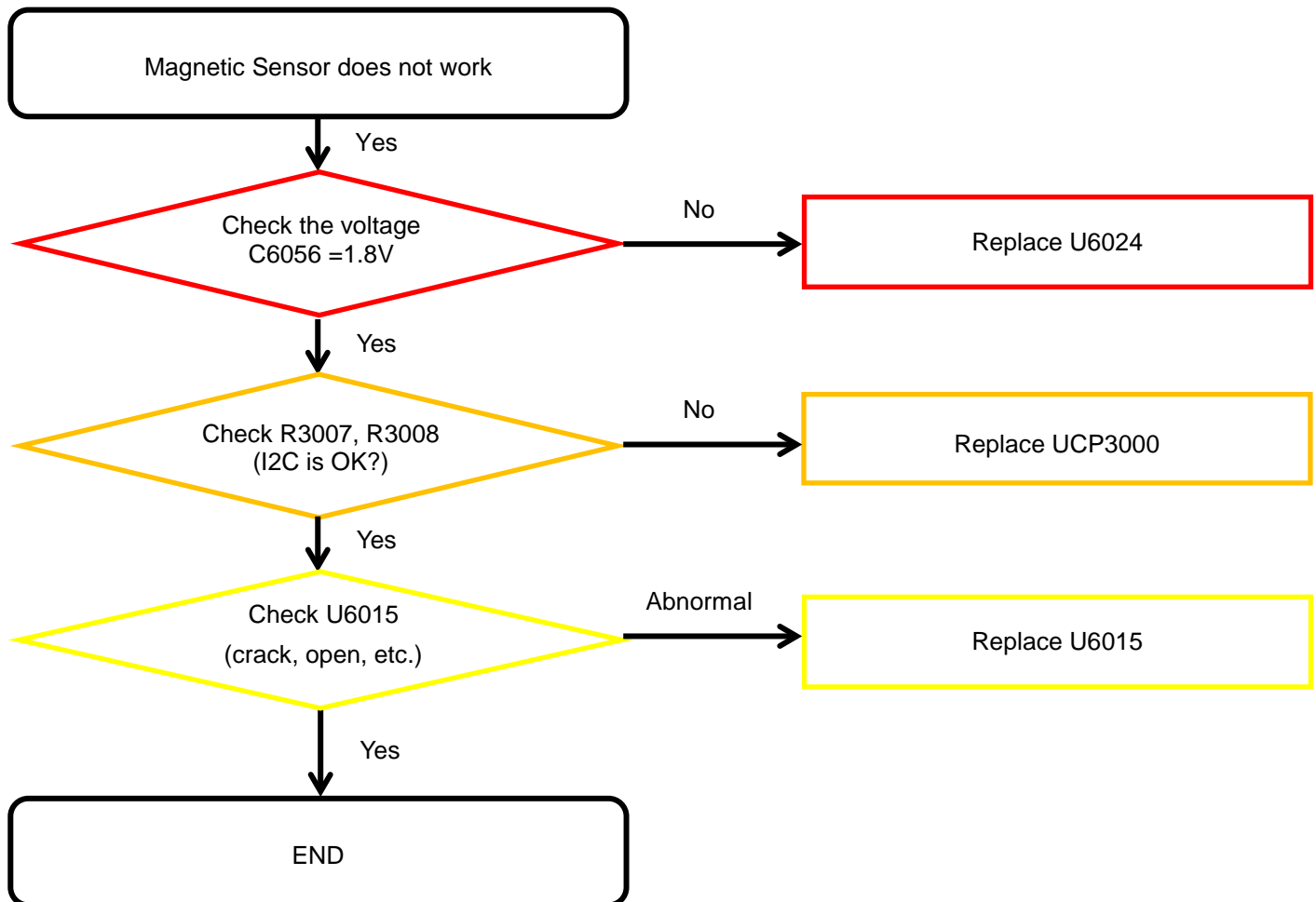
## 8. Level 3 Repair

### 8-4-6. Cable Charging Part



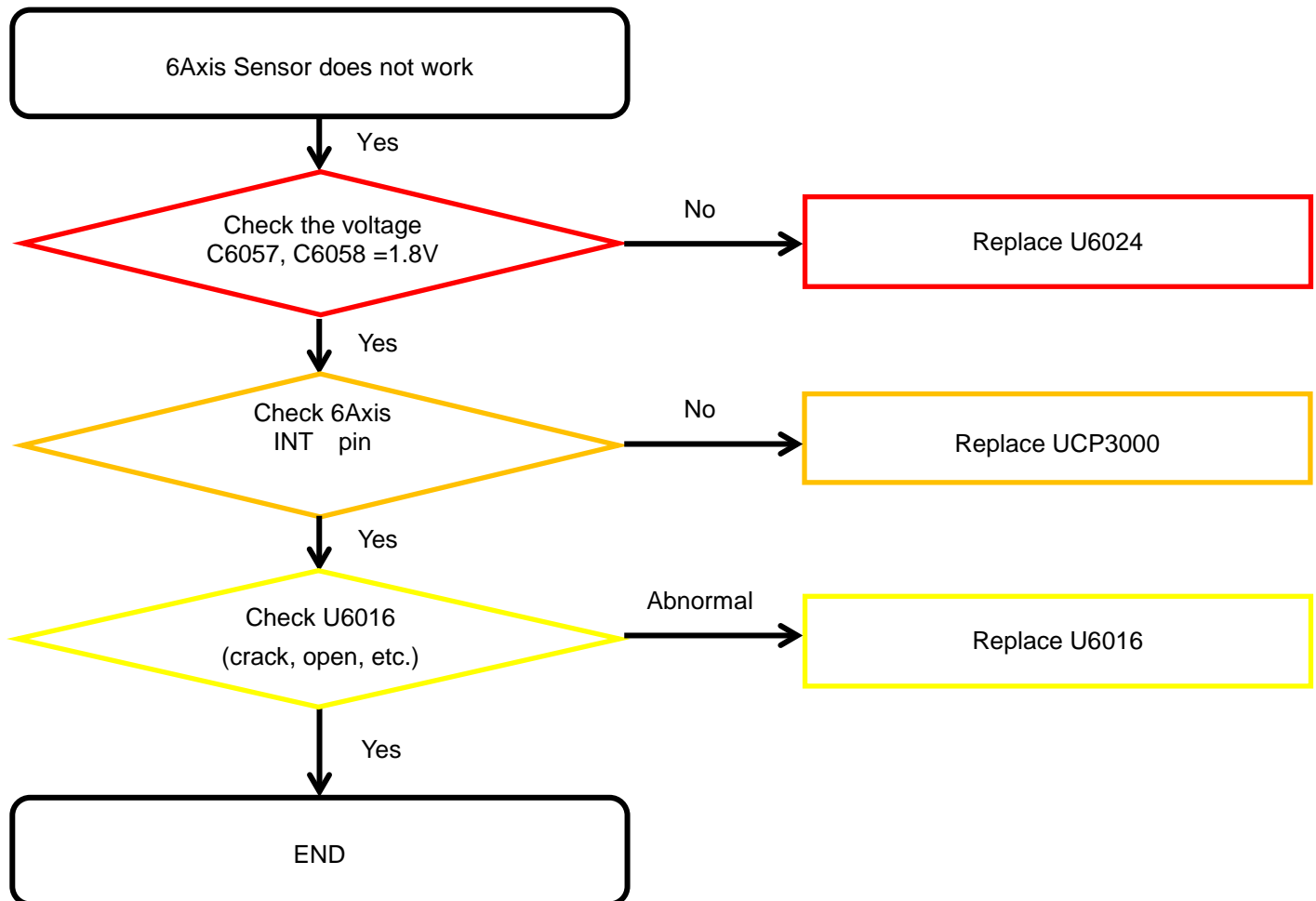
## 8. Level 3 Repair

### 8-4-7-1. Magnetic Sensor



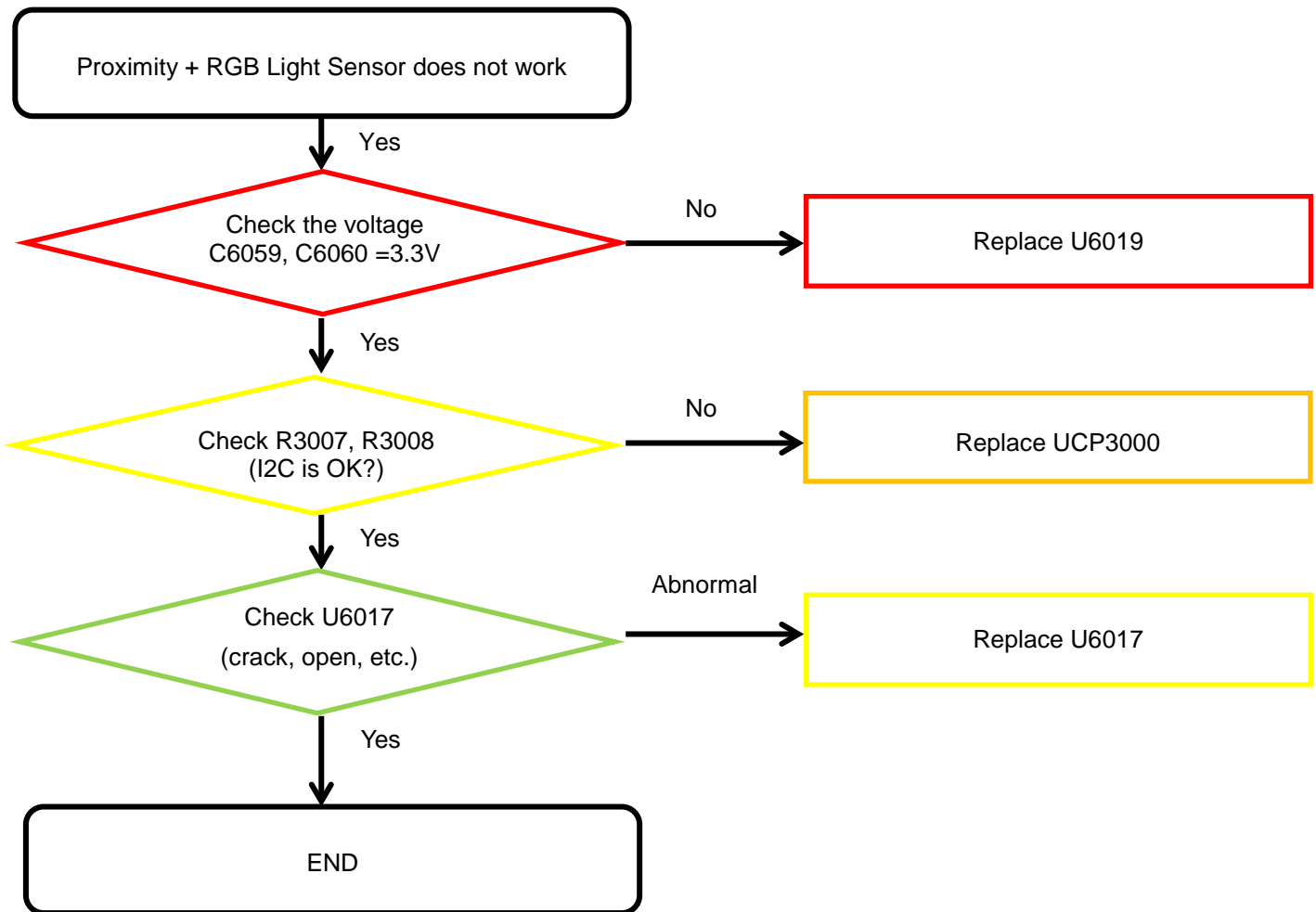
## 8. Level 3 Repair

### 8-4-7-2. 6Axis Sensor



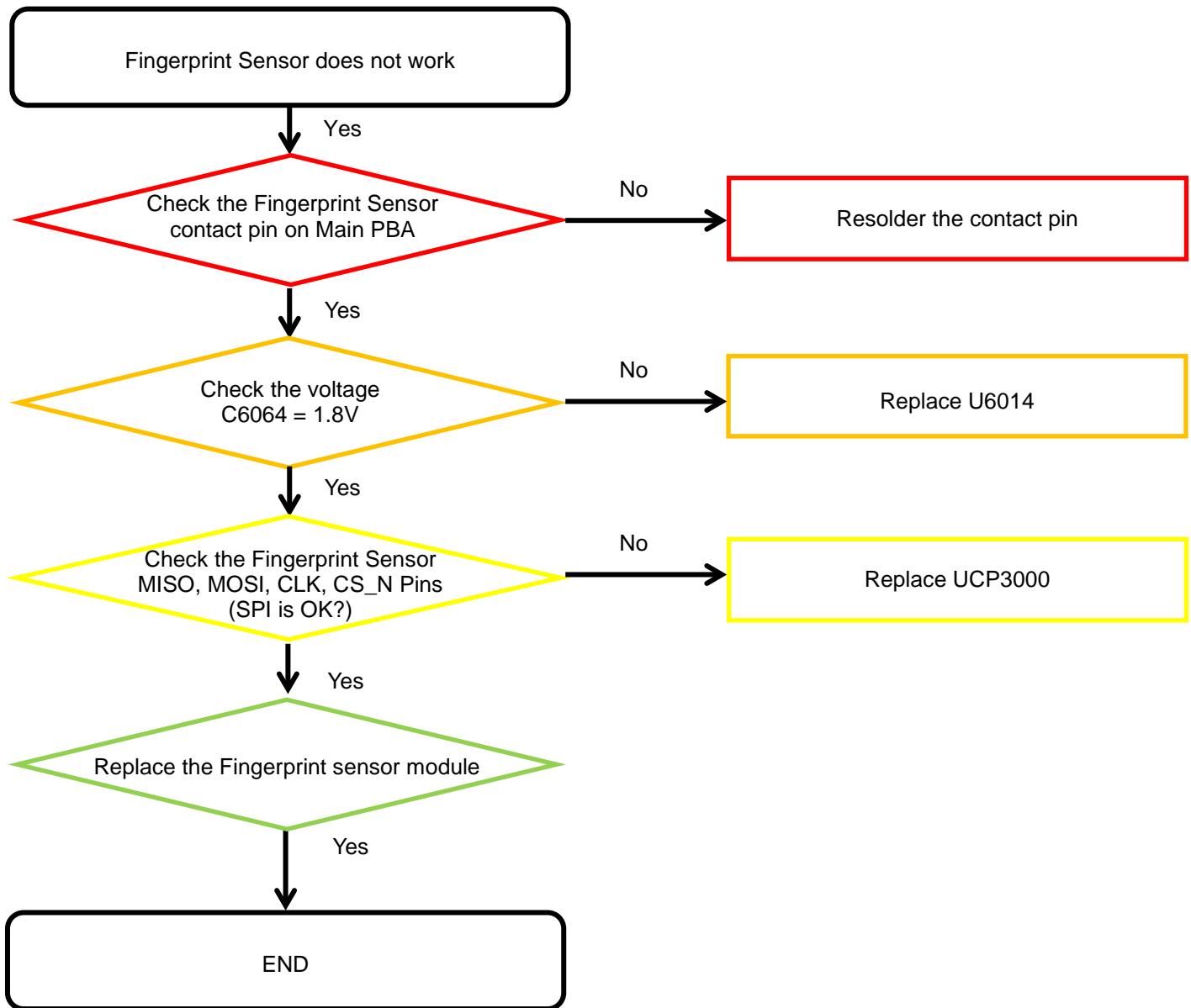
## 8. Level 3 Repair

### 8-4-7-3. Proximity sensor



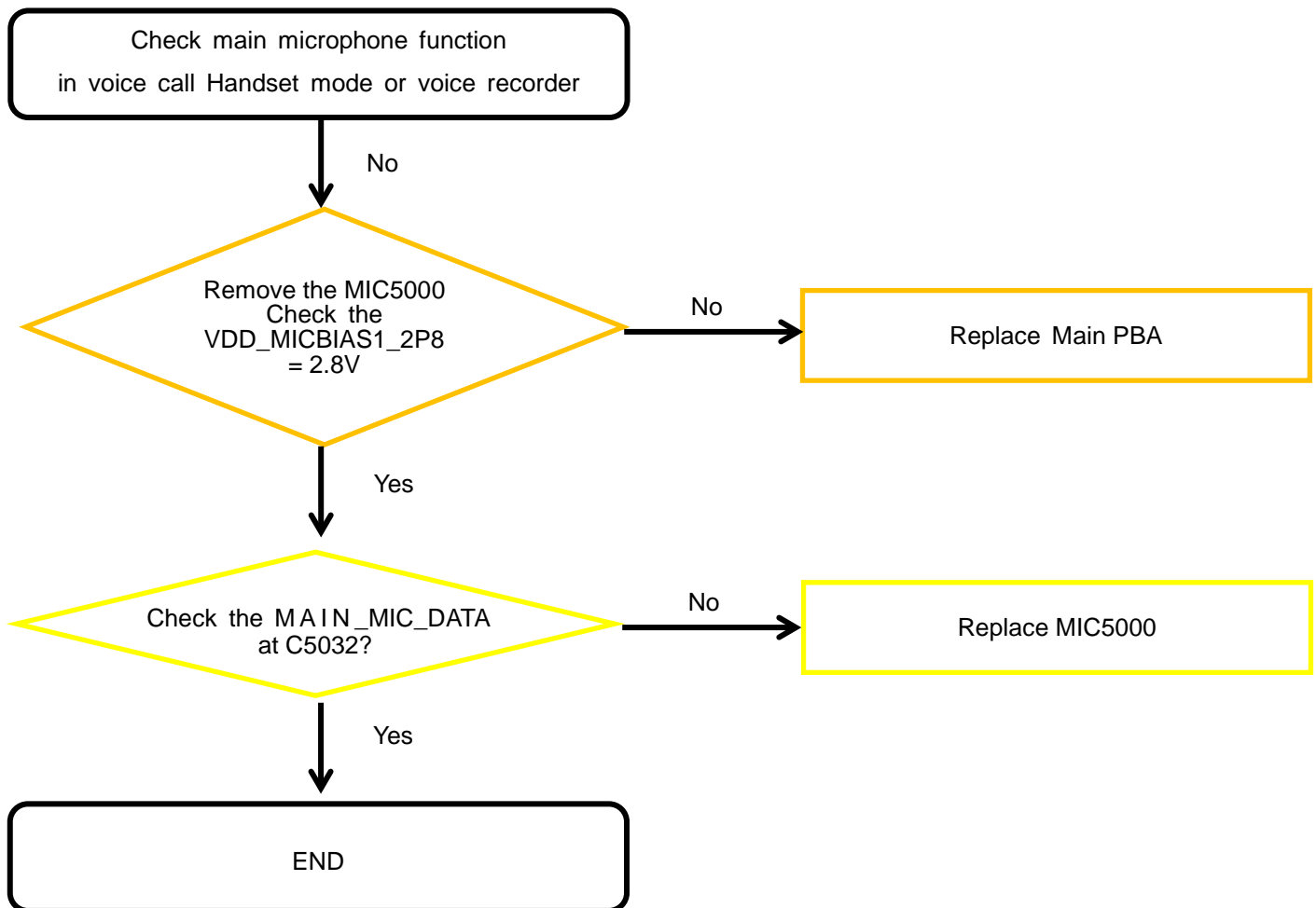
## 8. Level 3 Repair

### 8-4-7-4. Fingerprint Sensor



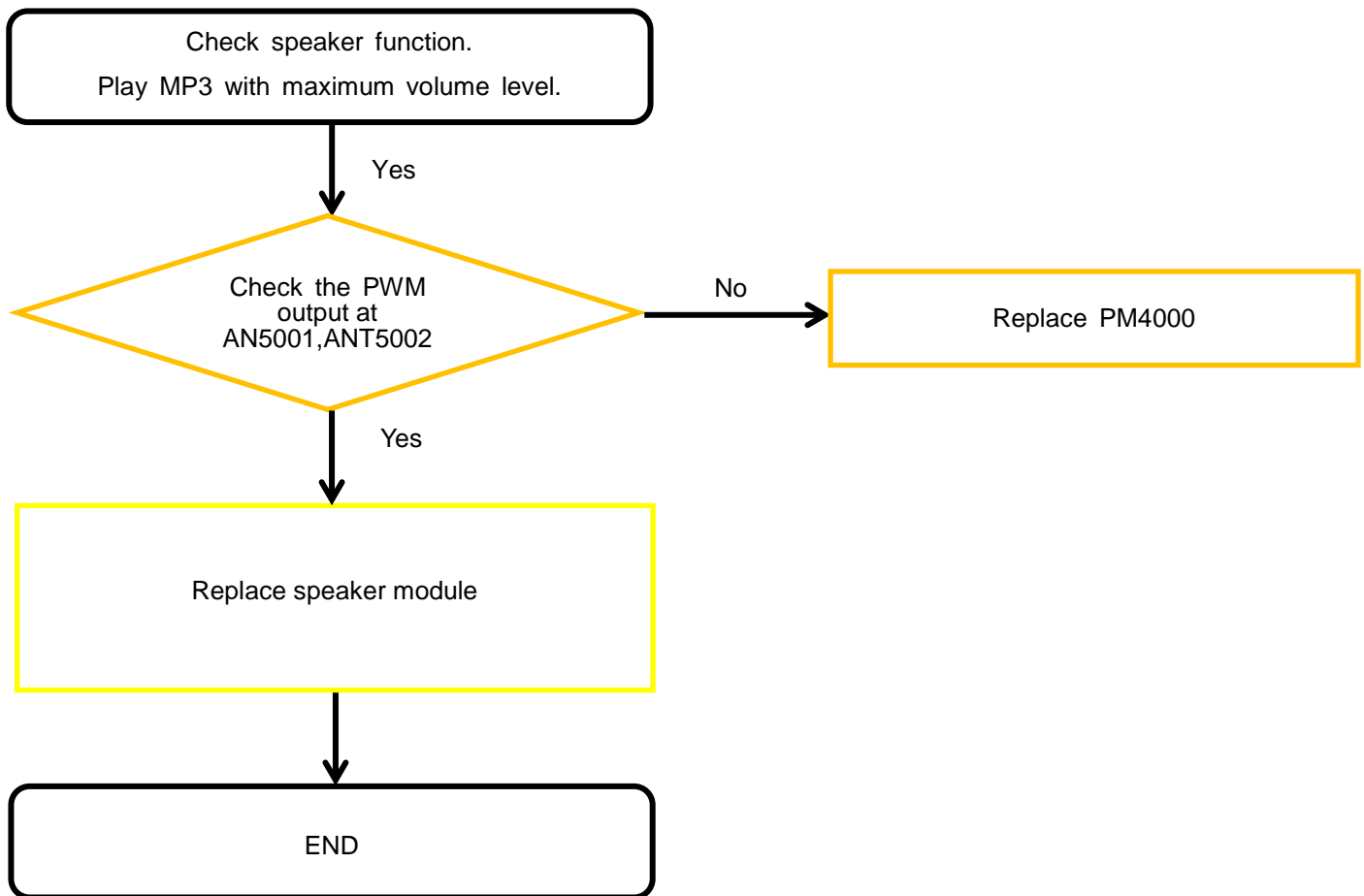
## 8. Level 3 Repair

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



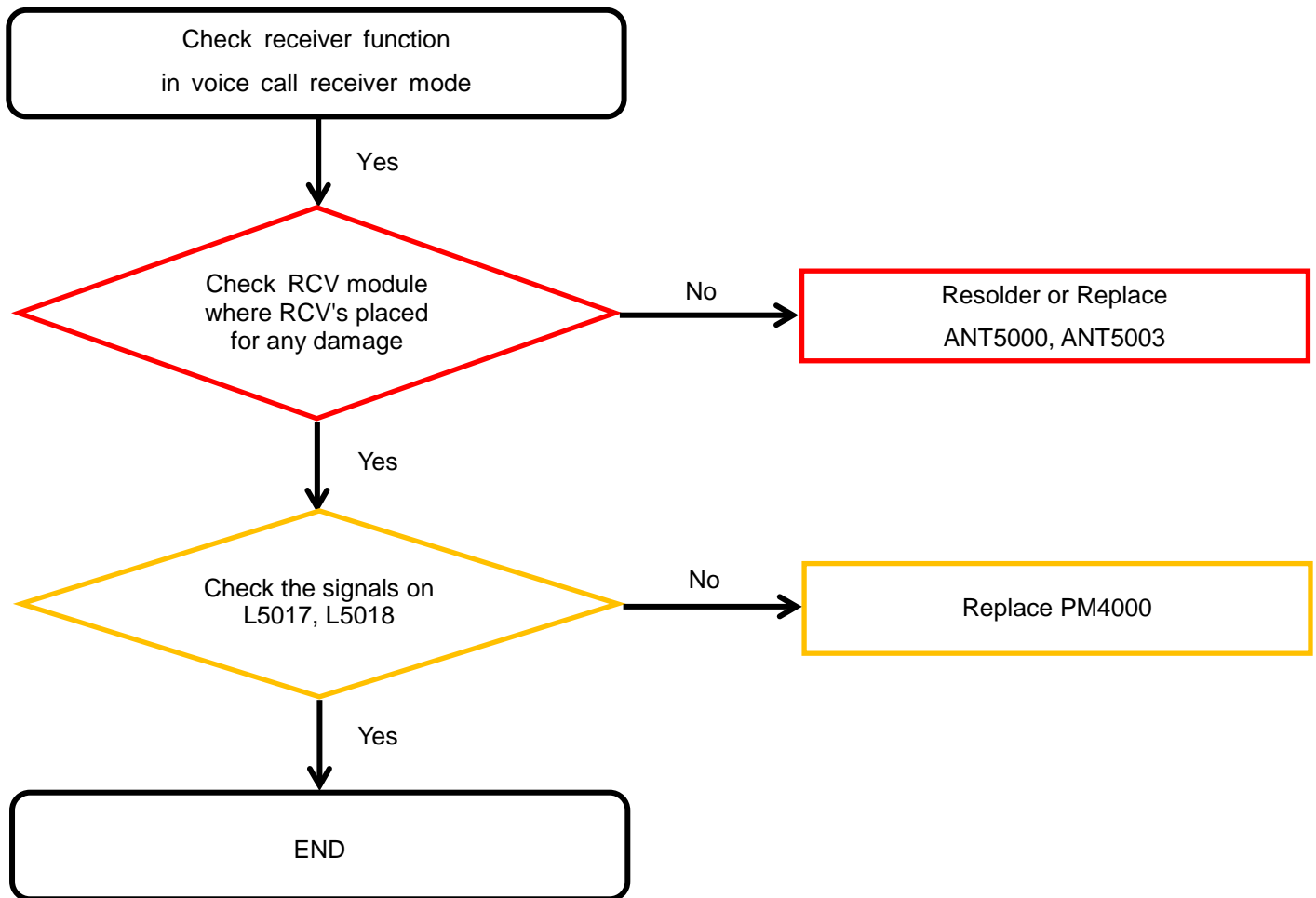
## 8. Level 3 Repair

### 8-4-9. Speaker Part



## 8. Level 3 Repair

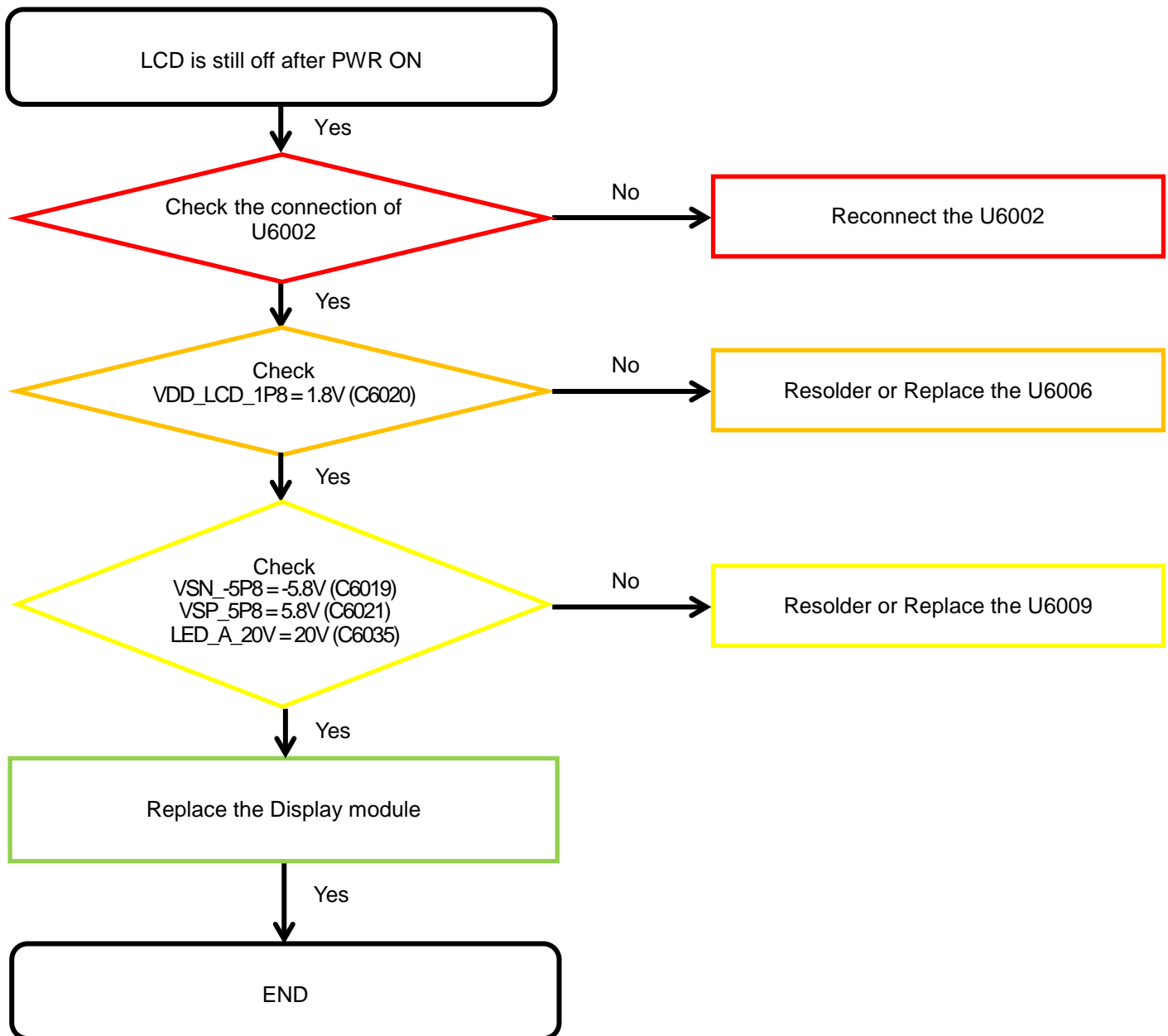
### 8-4-10. Receiver Part





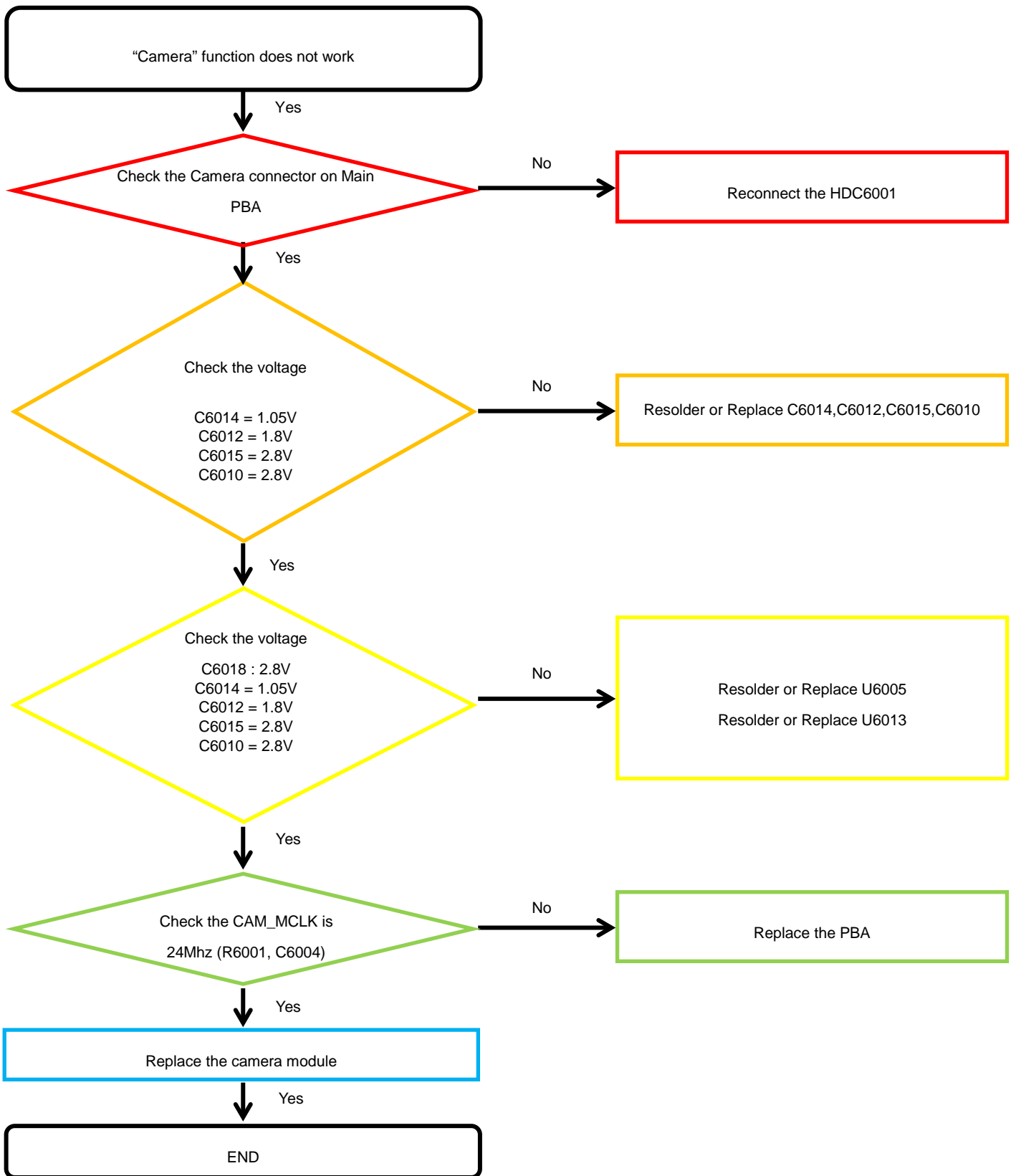
## 8. Level 3 Repair

### 8-4-11. Display



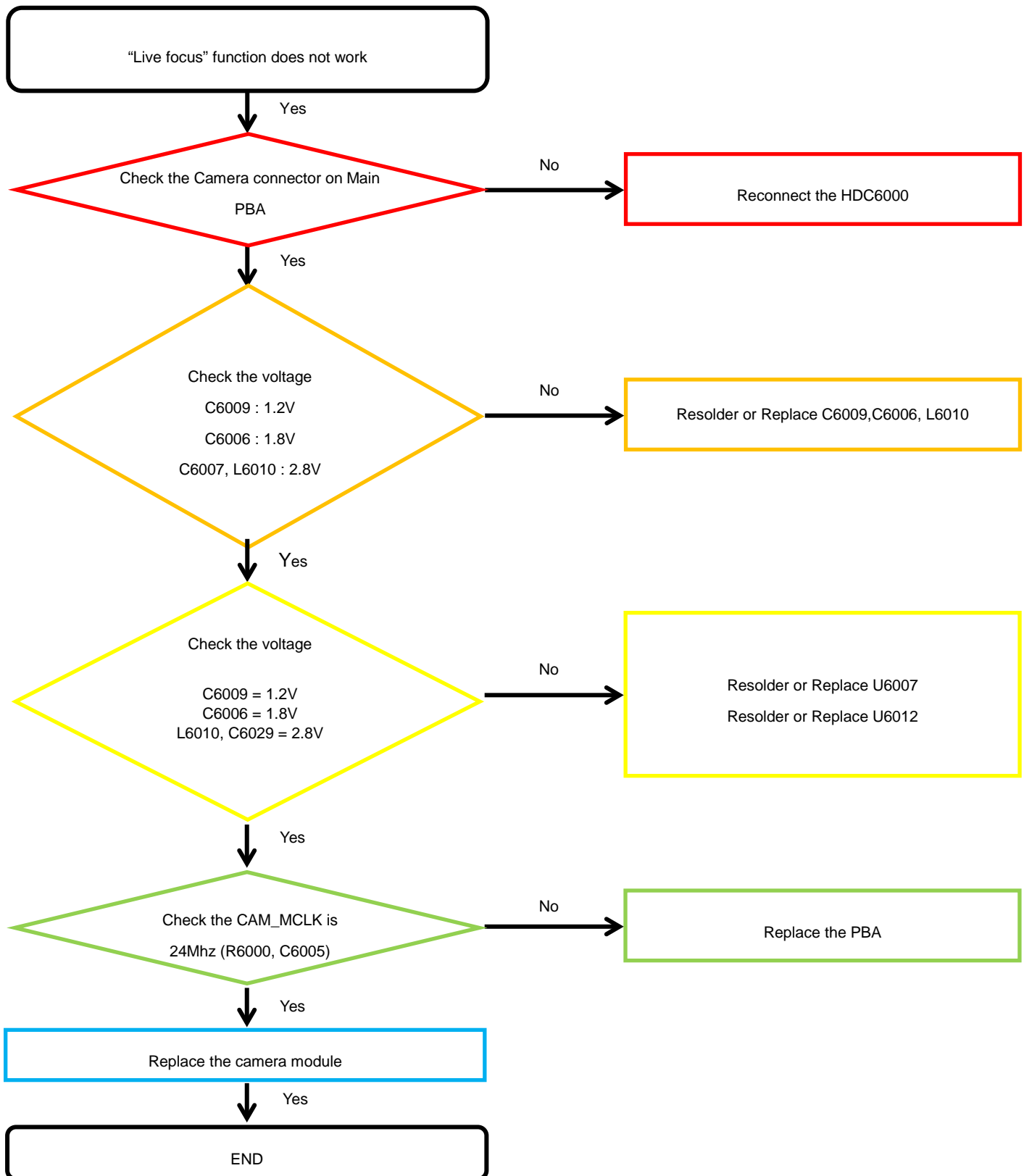
## 8. Level 3 Repair

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



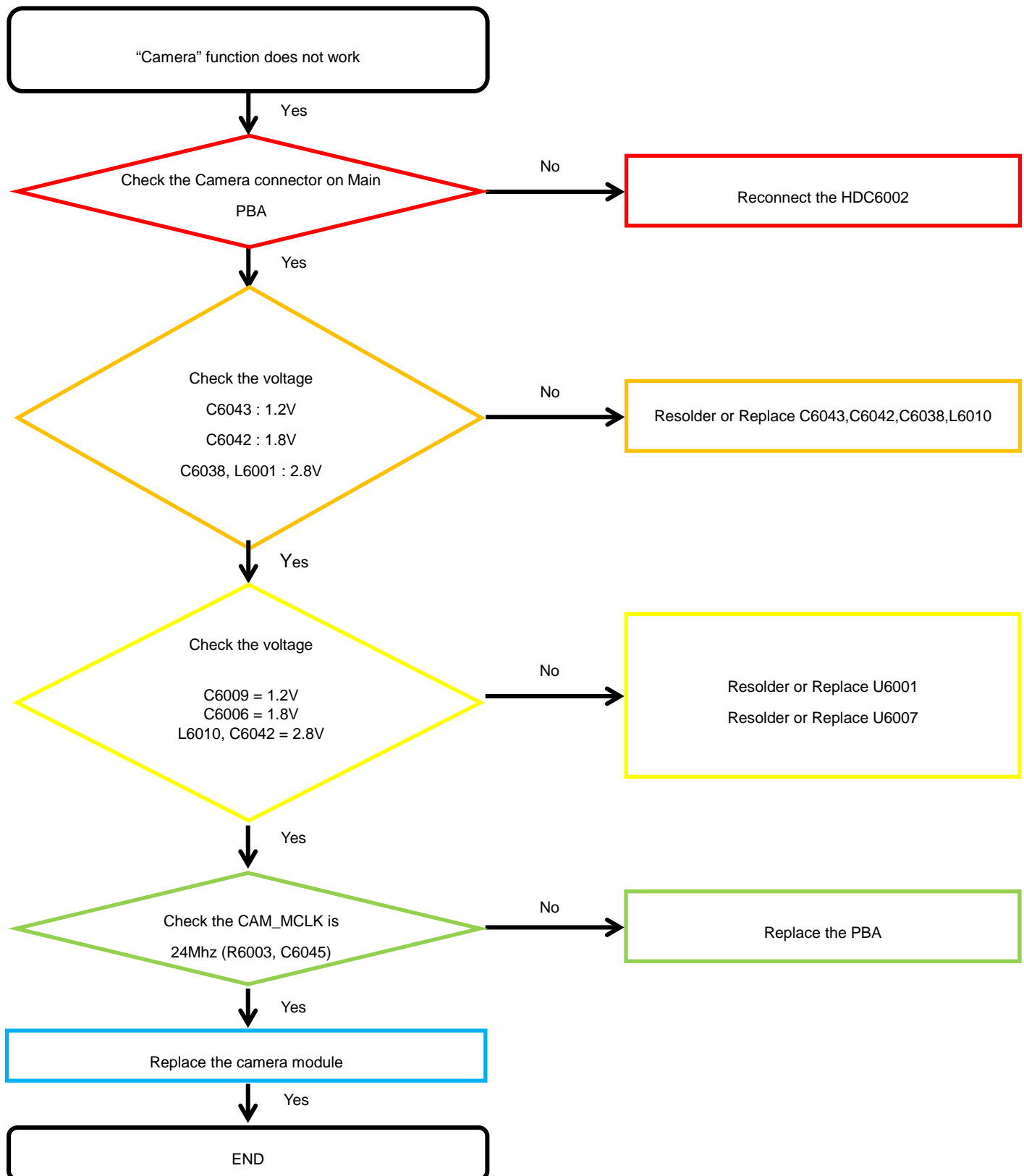
## 8. Level 3 Repair

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



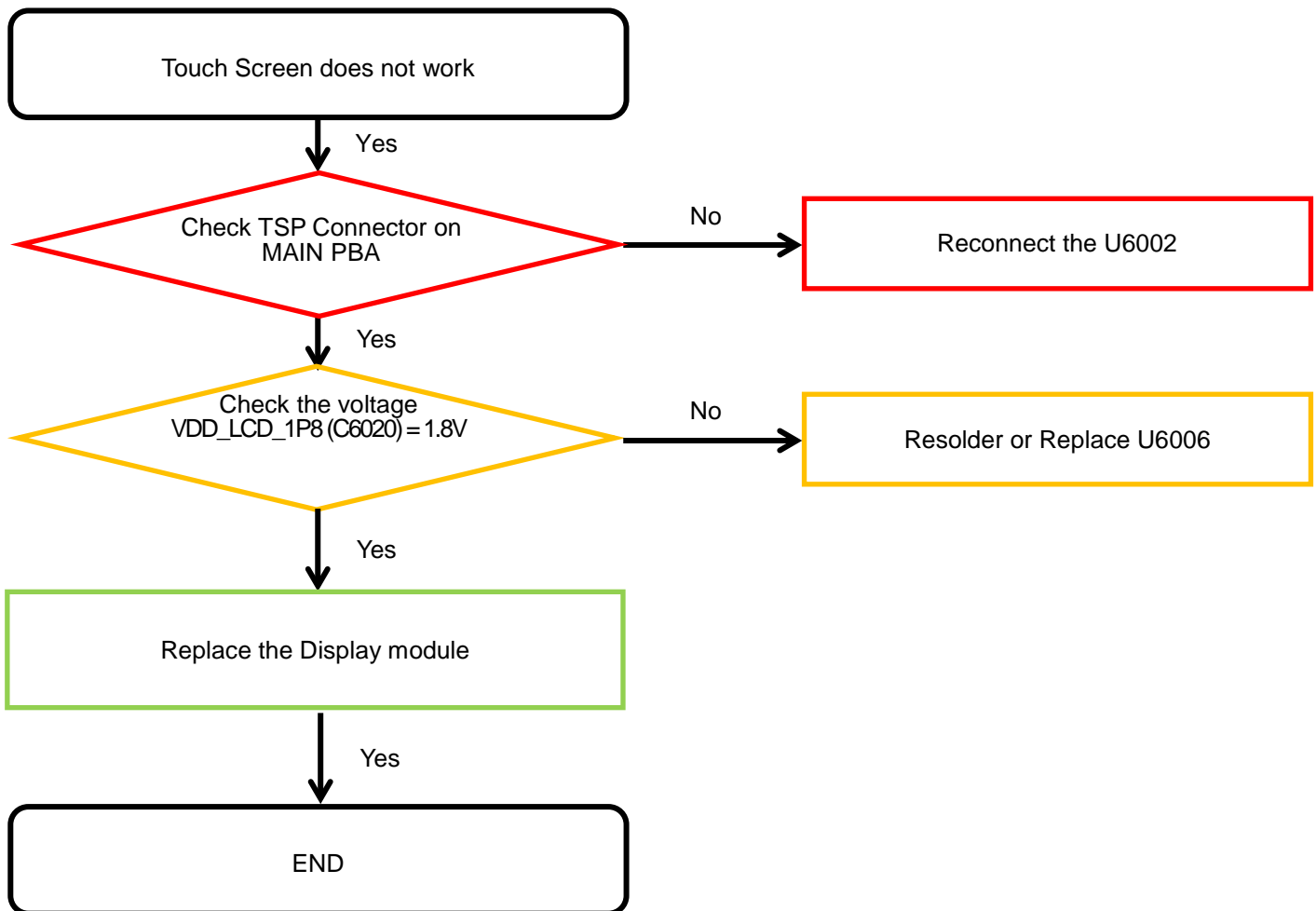
## 8. Level 3 Repair

### 8-4-13. 8M FF VT CAM



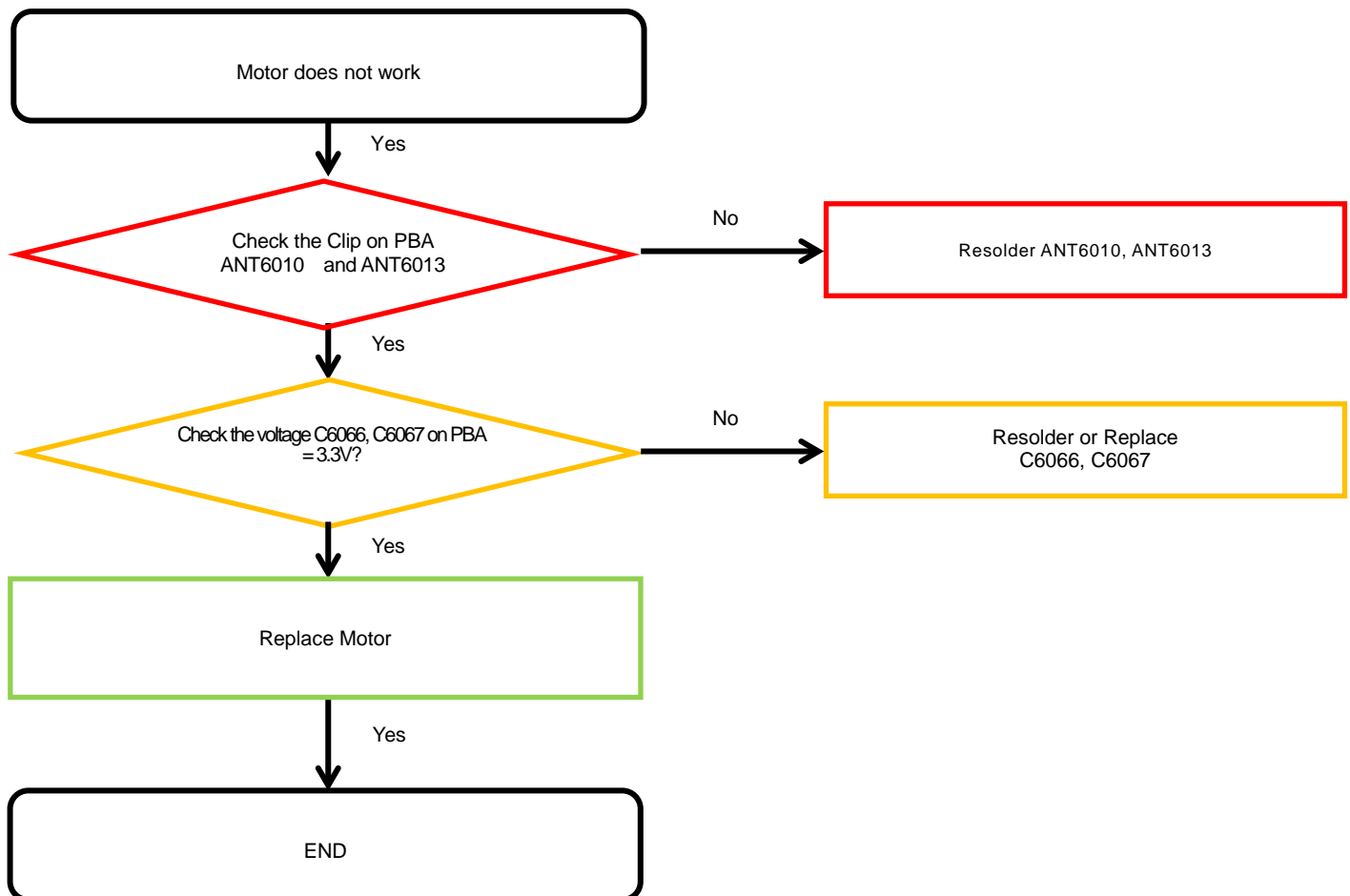
## 8. Level 3 Repair

### 8-4-14. TSP



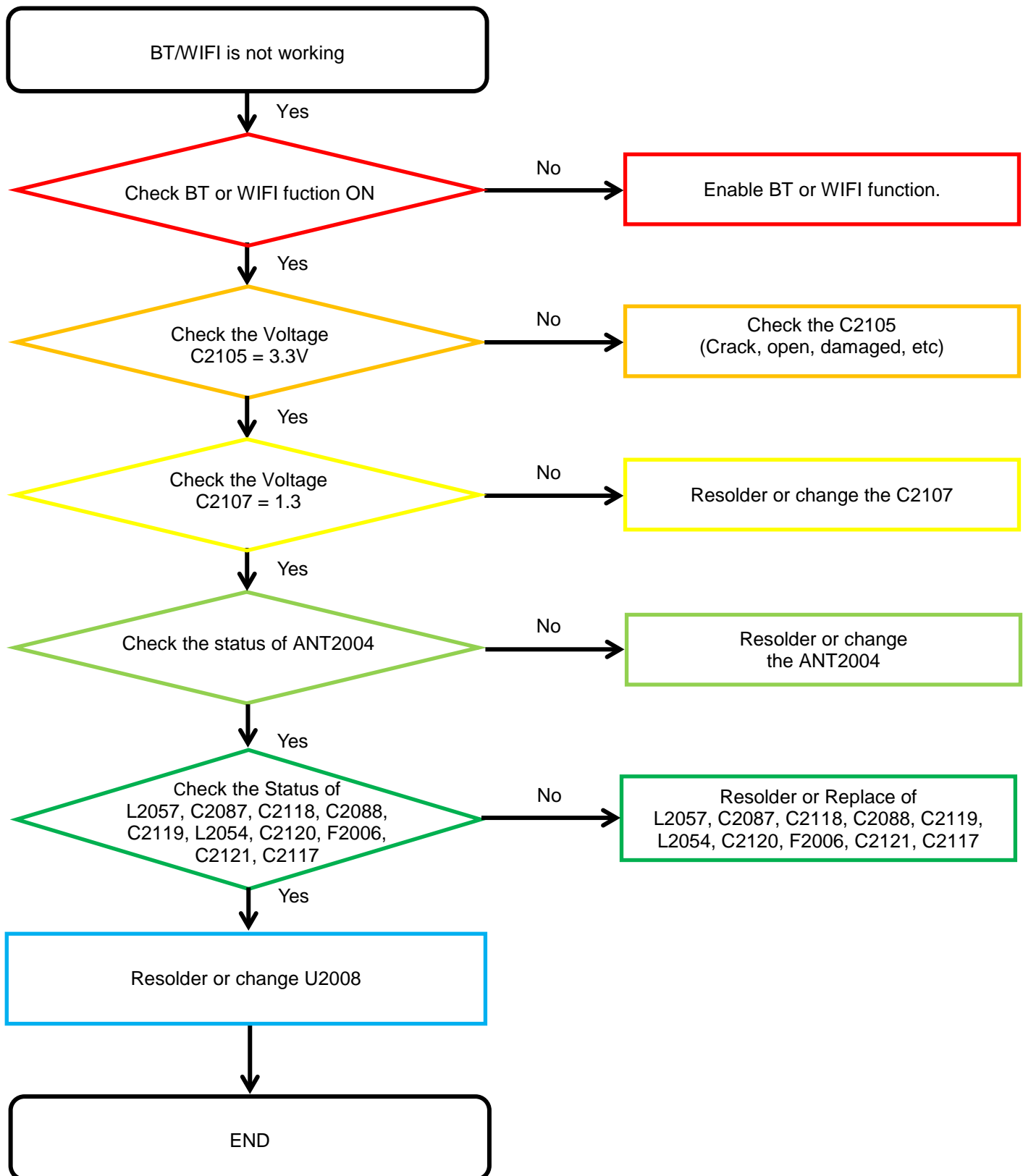
## 8. Level 3 Repair

### 8-4-15. Motor



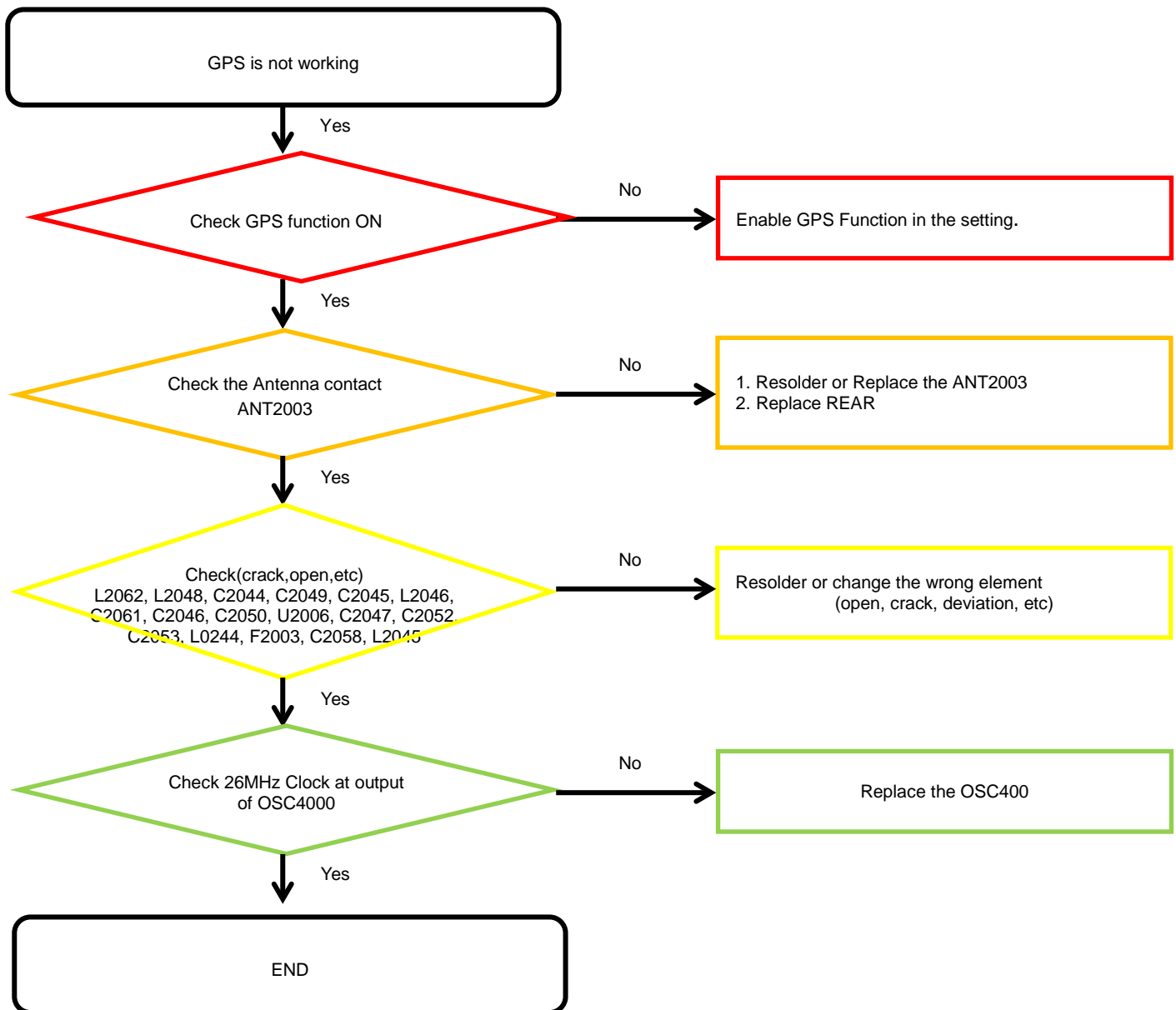
## 8. Level 3 Repair

### 8-4-16. BT/WIFI



## 8. Level 3 Repair

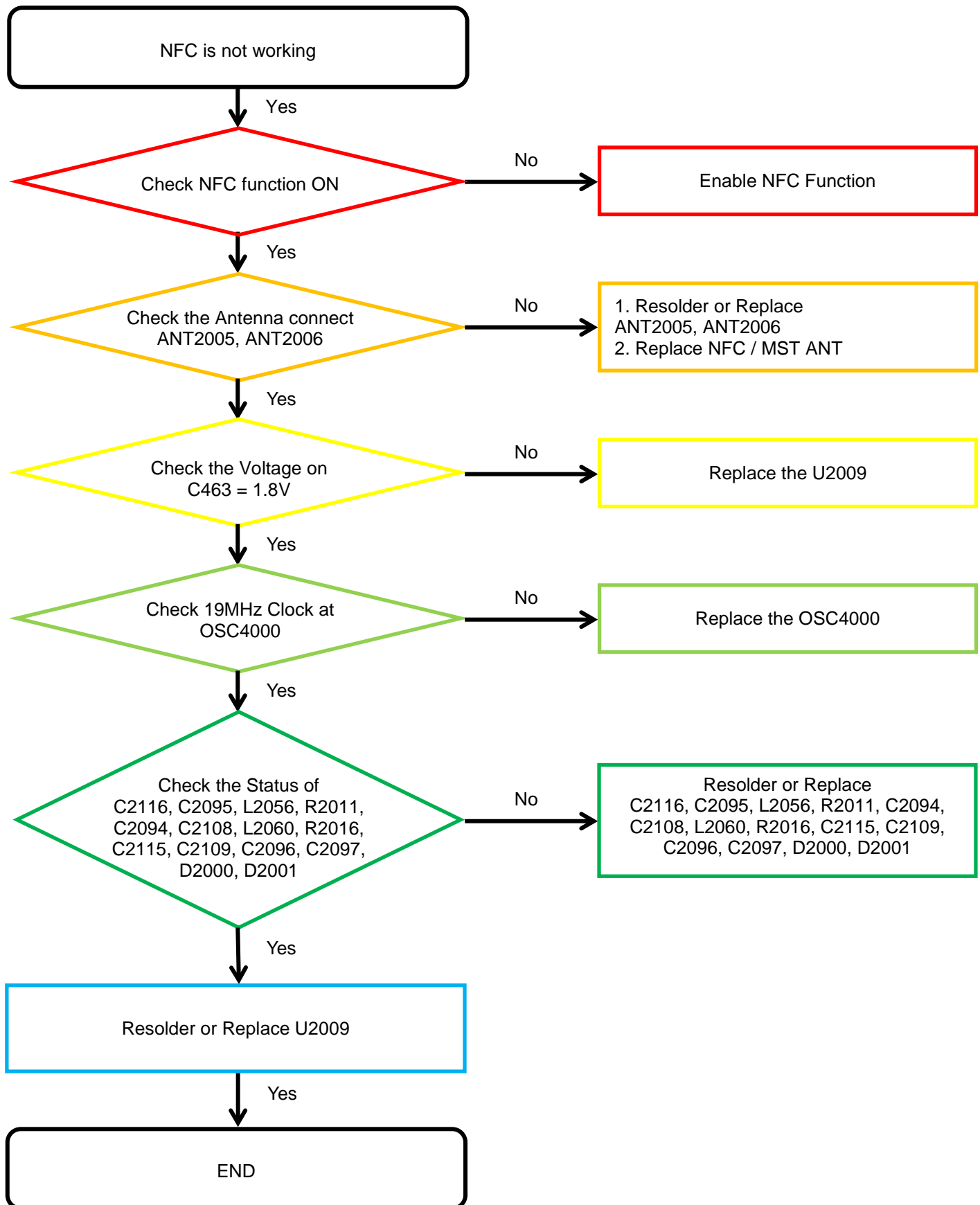
### 8-4-17. GPS





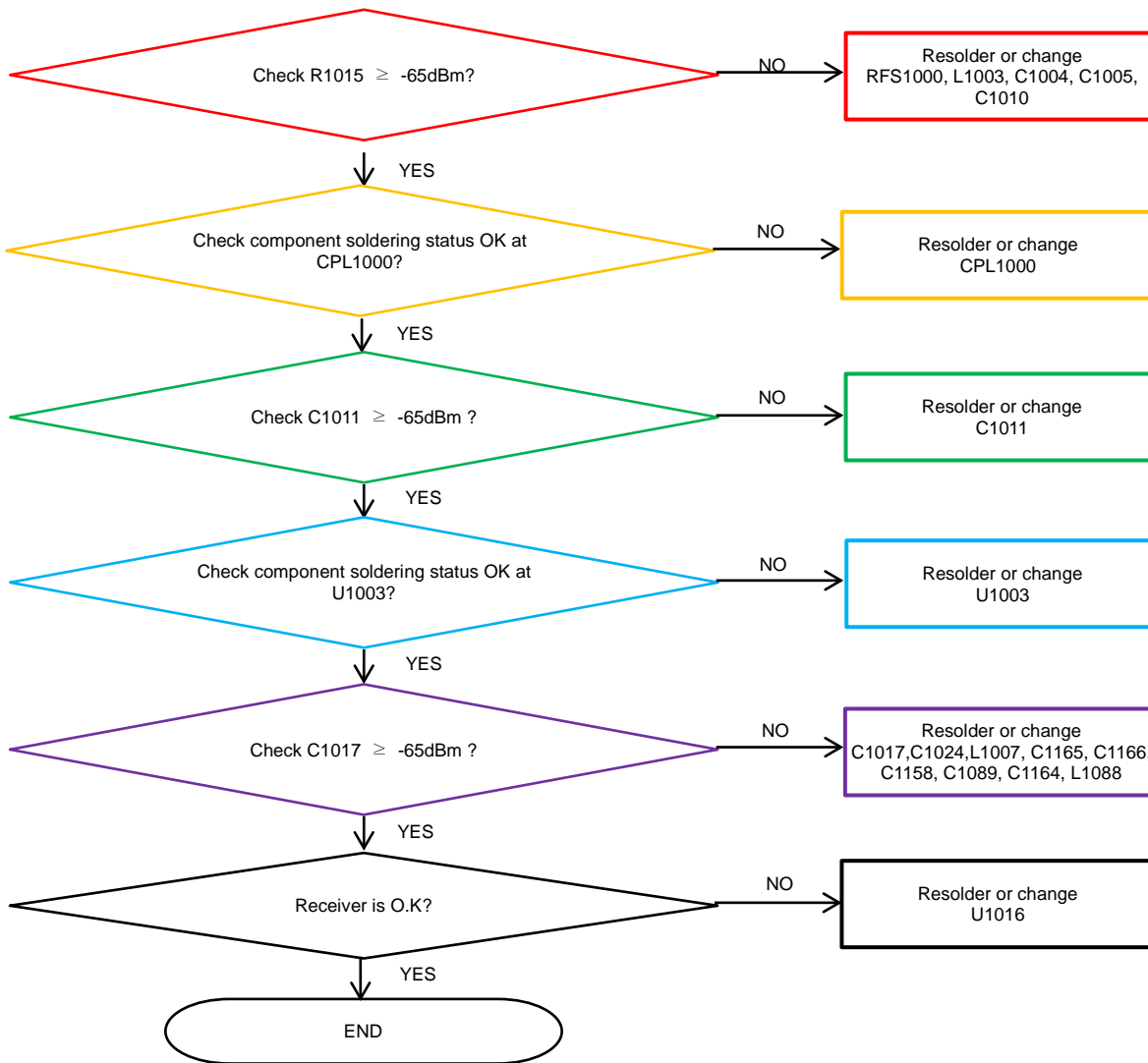
## 8. Level 3 Repair

### 8-4-18. NFC



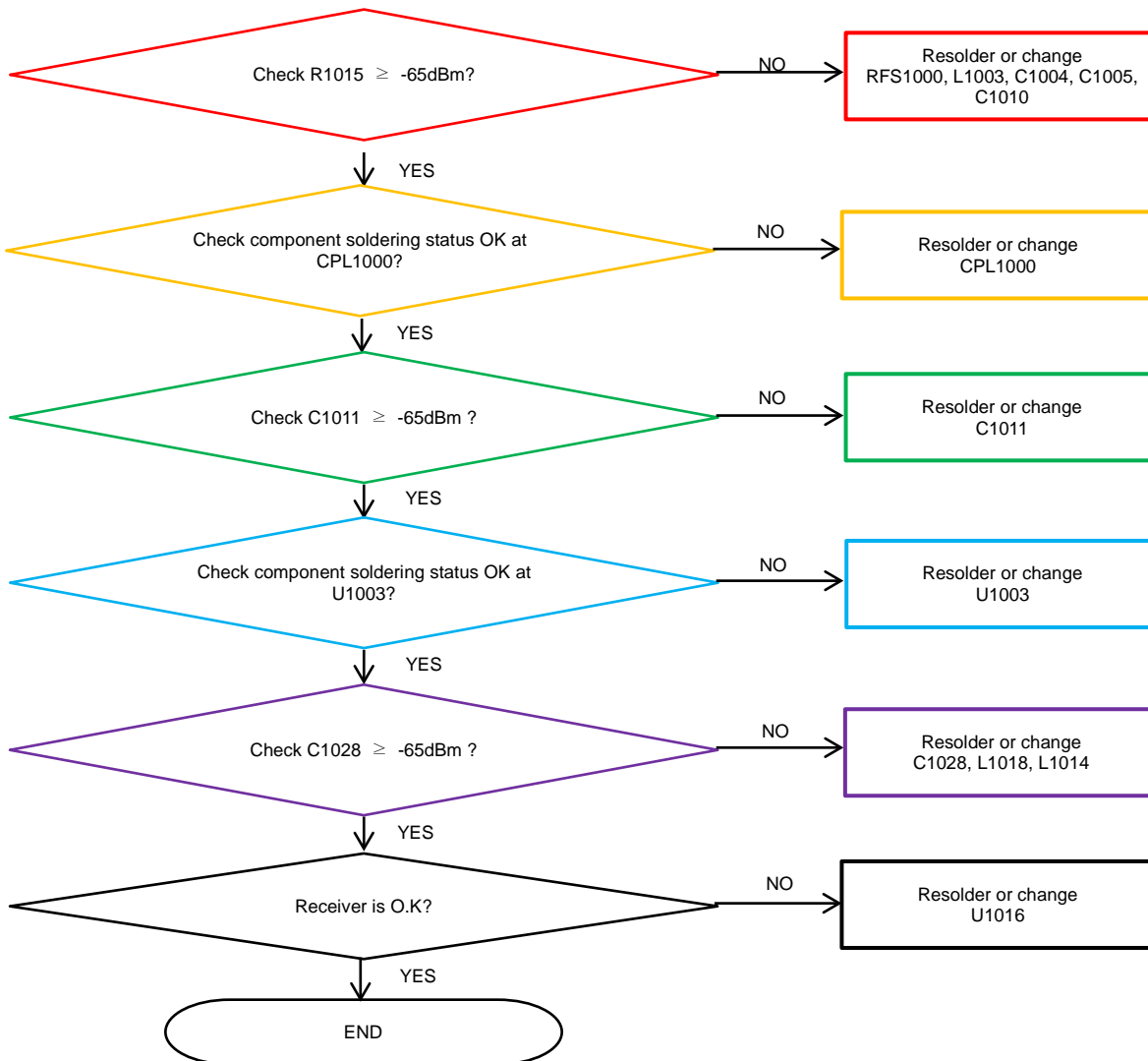
## 8. Level 3 Repair

### 8-4-19. LTE B1, WCDMA B1 Rx



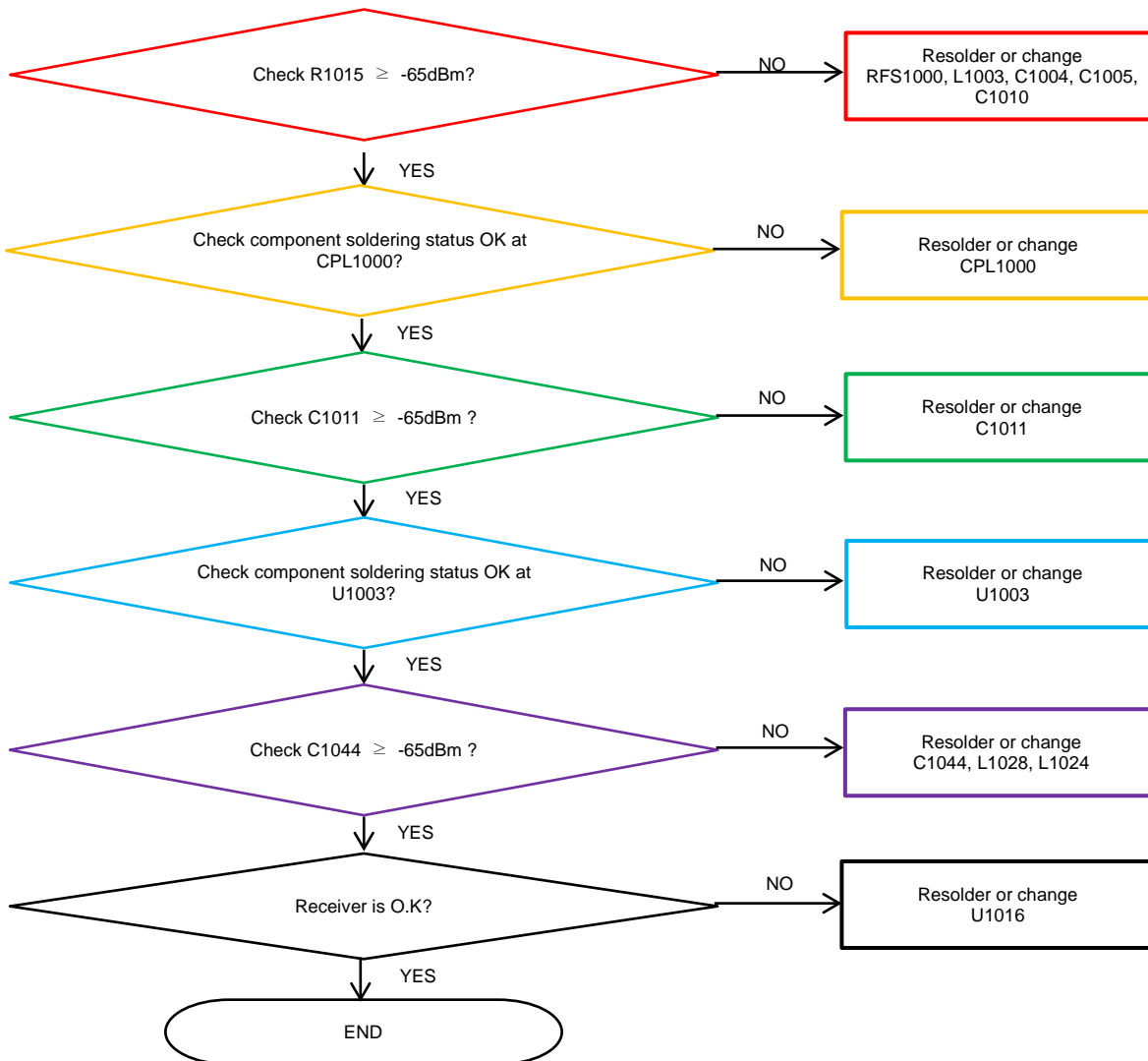
## 8. Level 3 Repair

### 8-4-20. LTE, WCDMA B2 / PCS RX



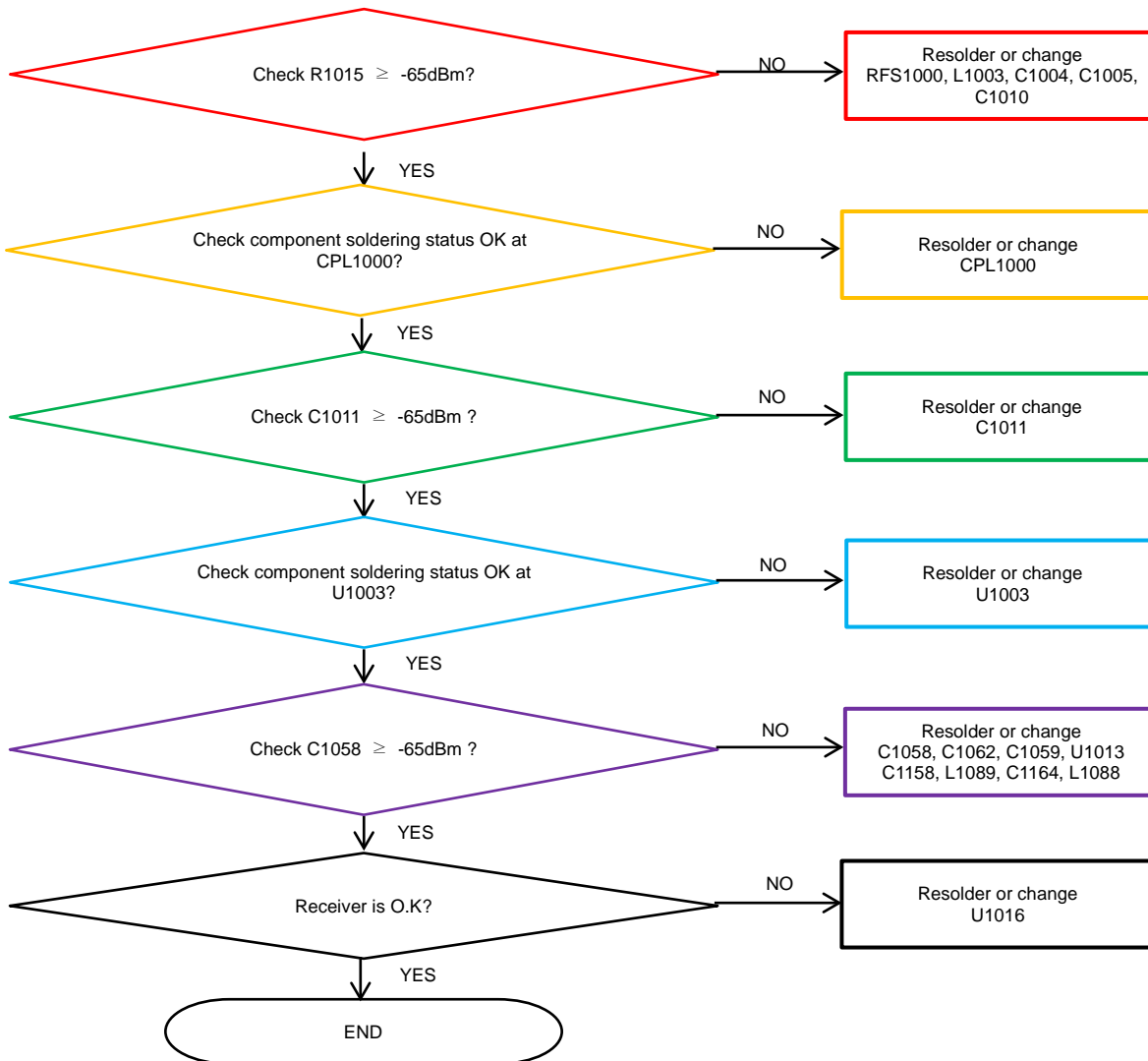
## 8. Level 3 Repair

### 8-4-21. LTE B3 / DCS RX



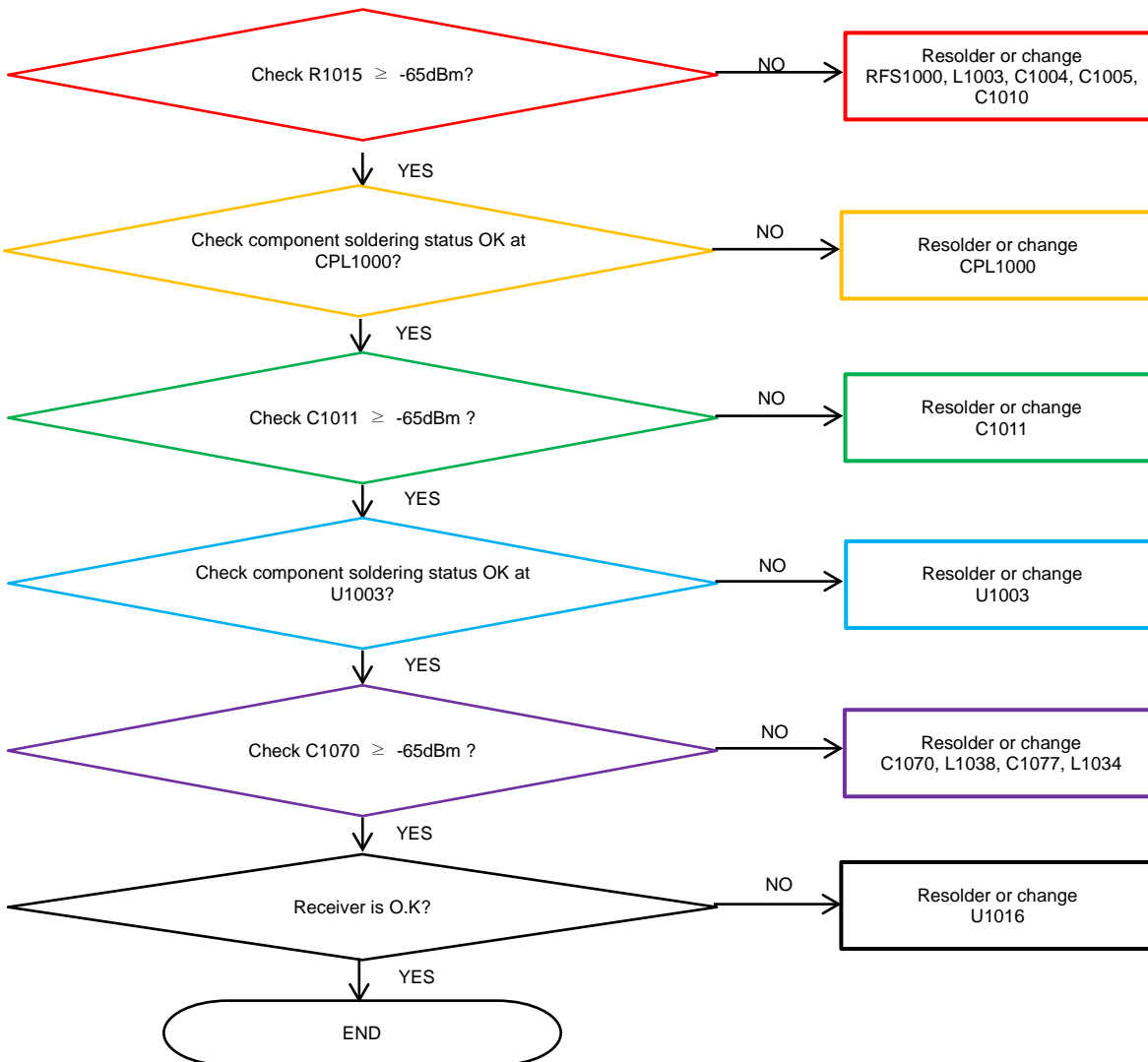
## 8. Level 3 Repair

### 8-4-22. WCDMA B4, LTE B4, B66 Rx [SM-J610G ]



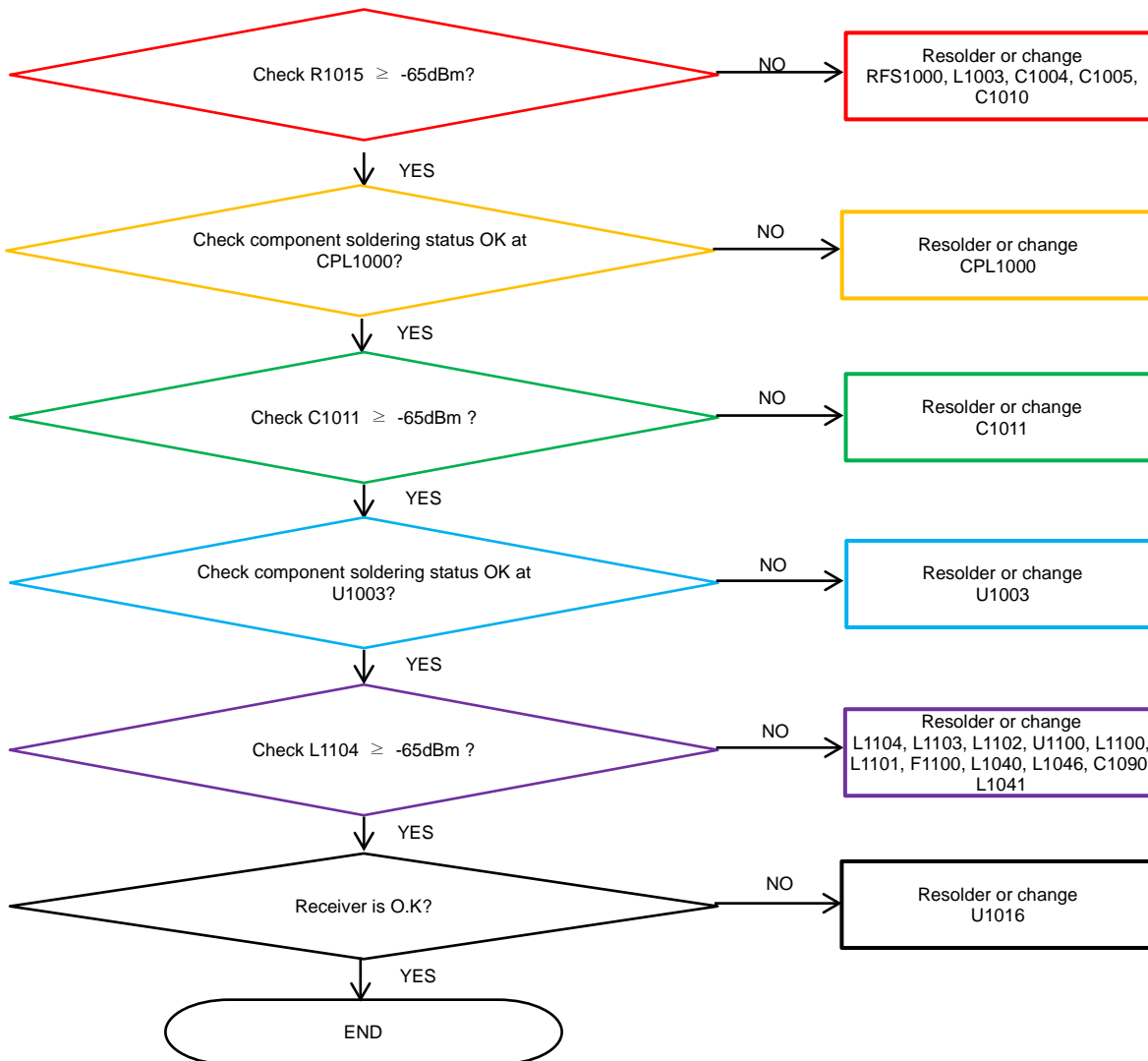
## 8. Level 3 Repair

### 8-4-23. LTE, WCDMA B5 / GSM850 RX



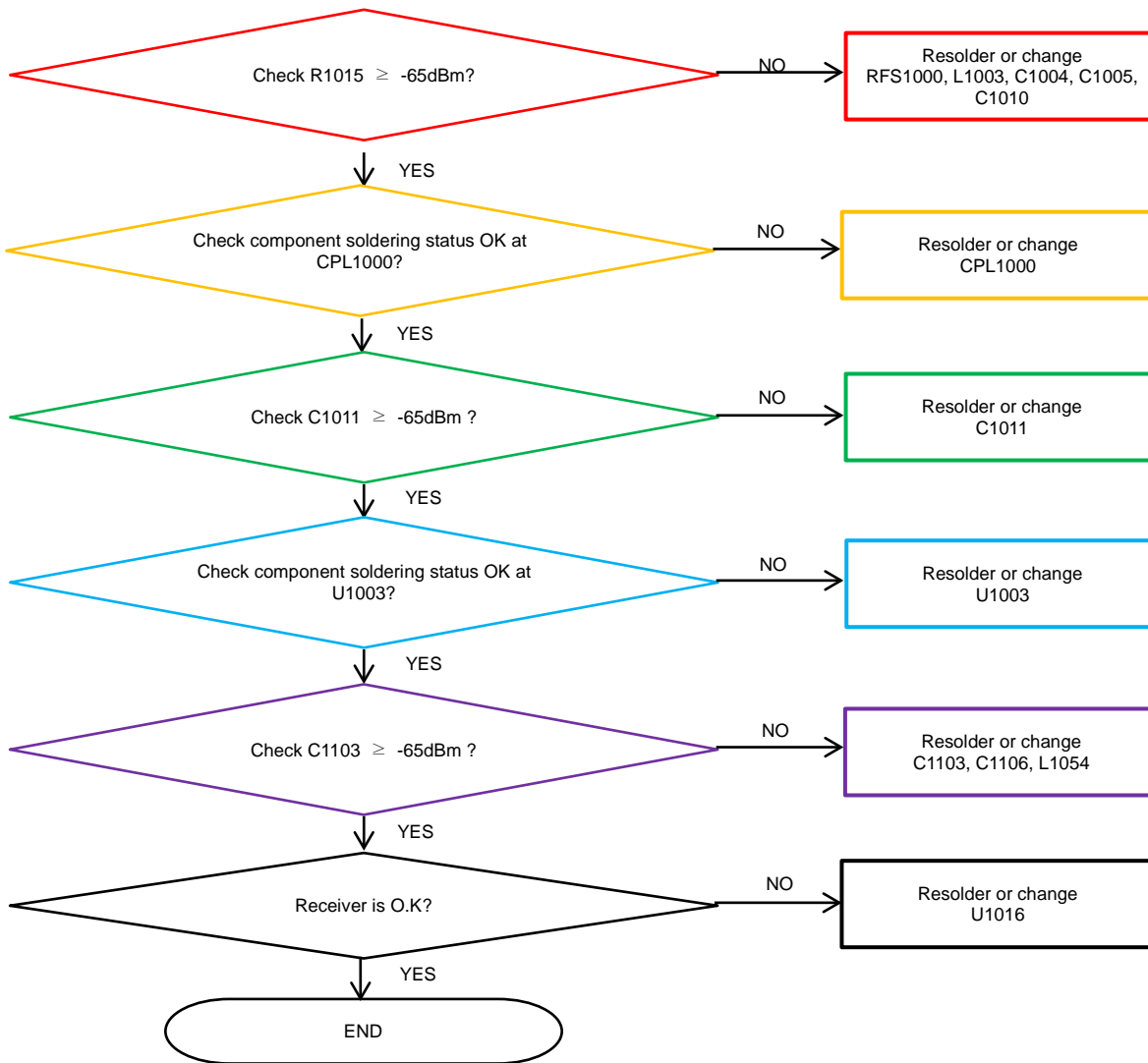
## 8. Level 3 Repair

### 8-4-24. LTE, WCDMA B8 / EGSM RX



## 8. Level 3 Repair

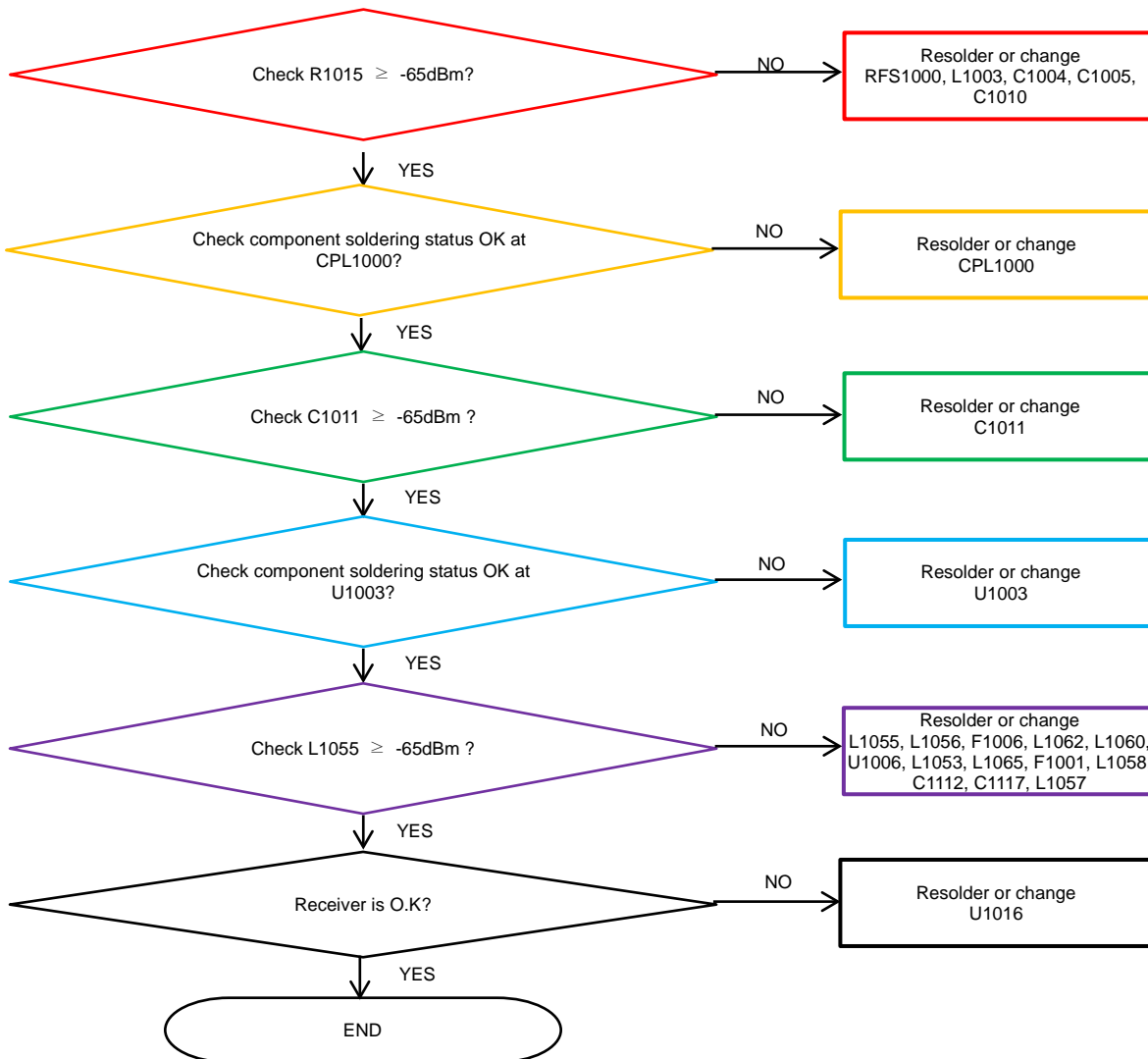
### 8-4-25. LTE B20 RX





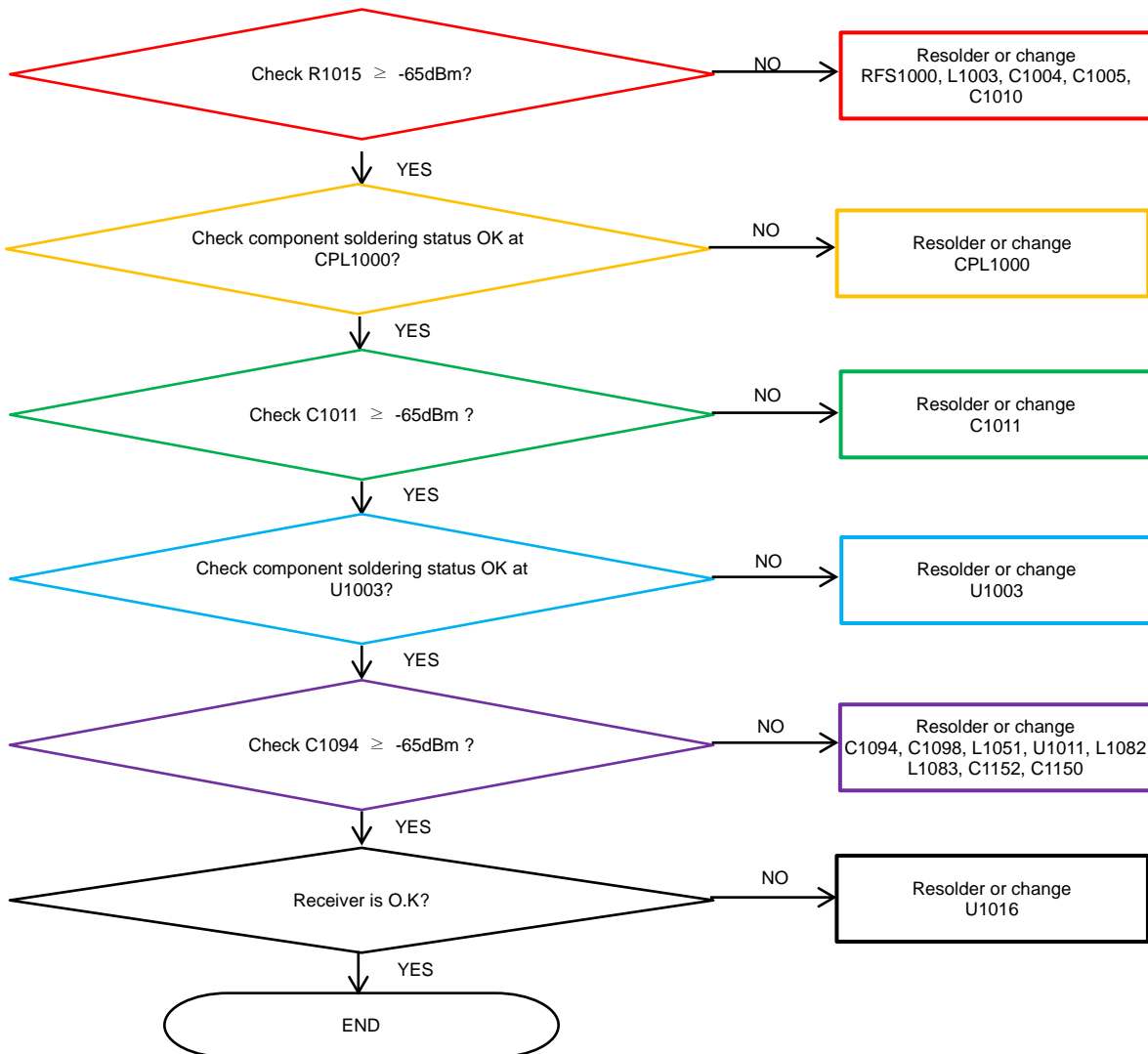
## 8. Level 3 Repair

### 8-4-26. LTE B7 RX



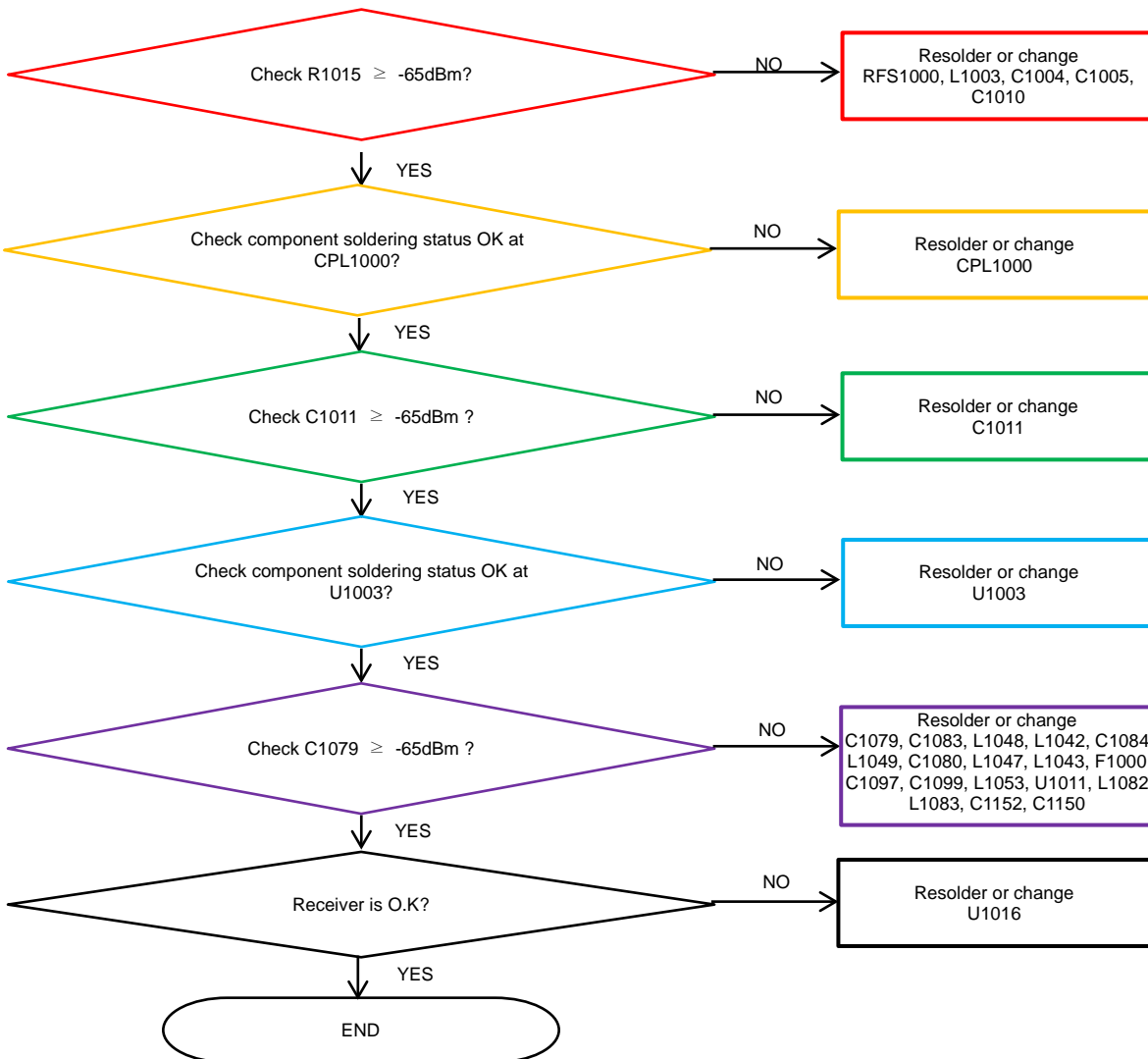
## 8. Level 3 Repair

### 8-4-27. LTE B12, 17 RX [SM-J610G]



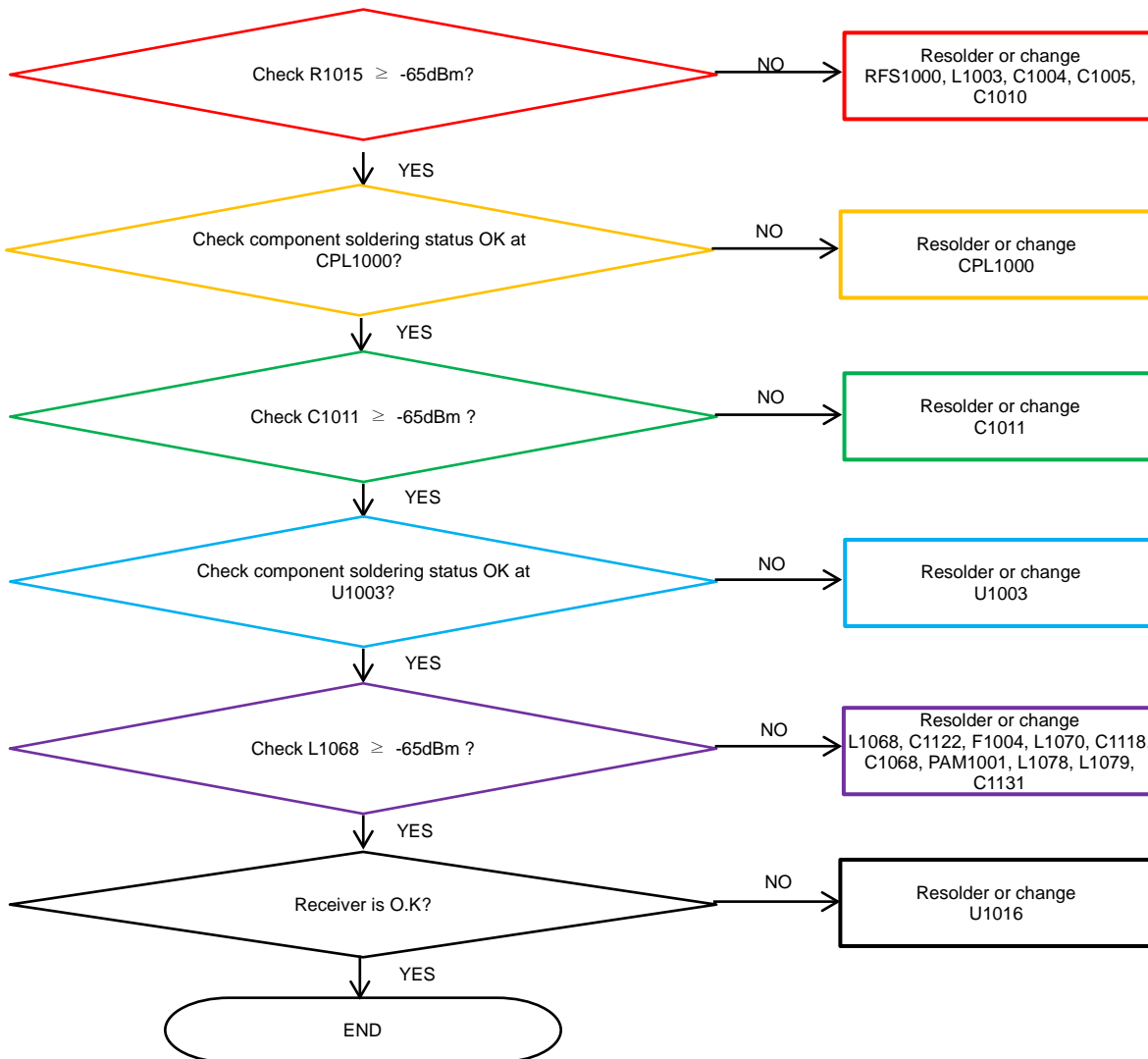
## 8. Level 3 Repair

### 8-4-28. LTE B13 RX [SM-J610G]



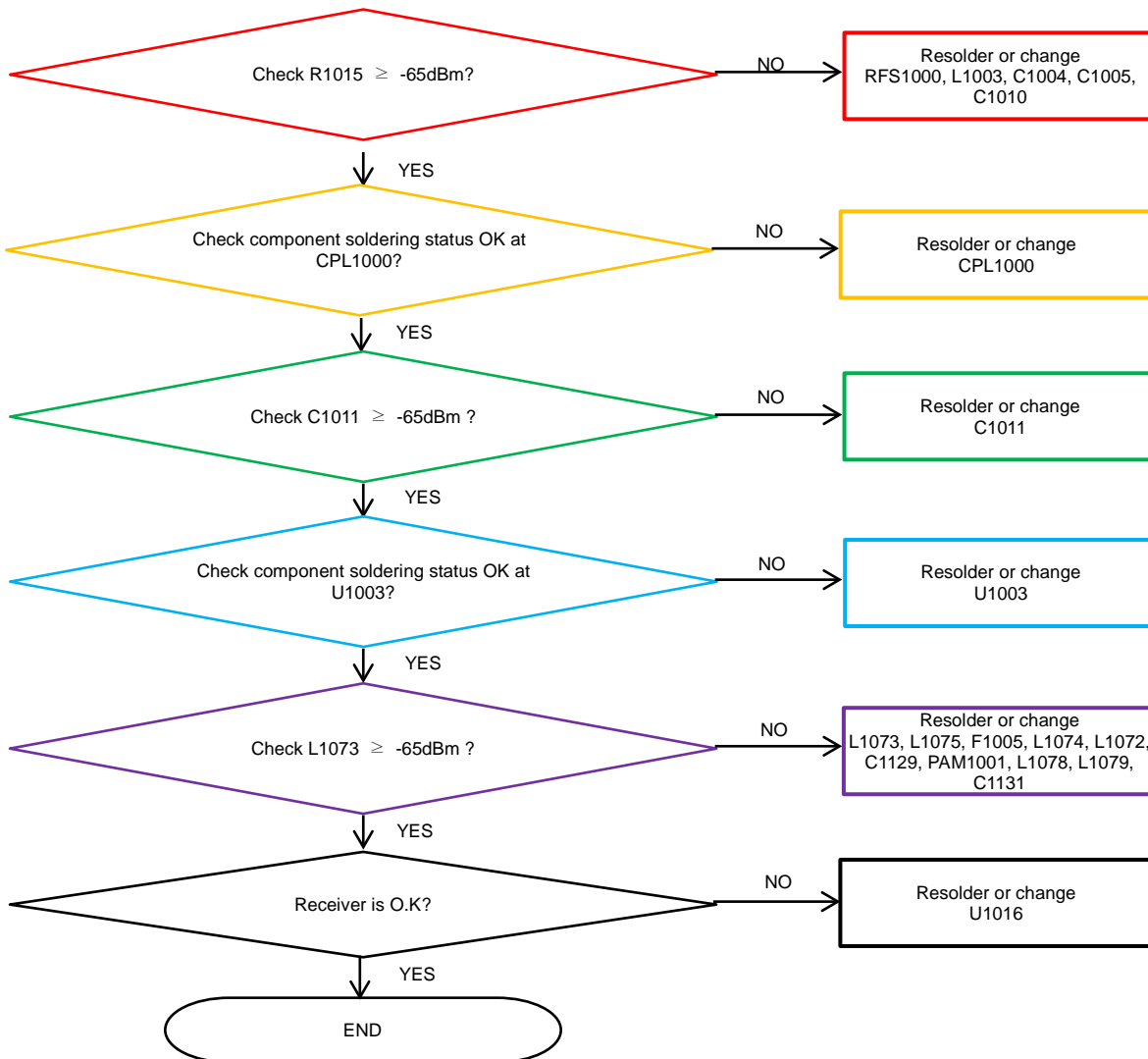
## 8. Level 3 Repair

### 8-4-29. LTE B38\_41 RX [SM-J610F/FN]



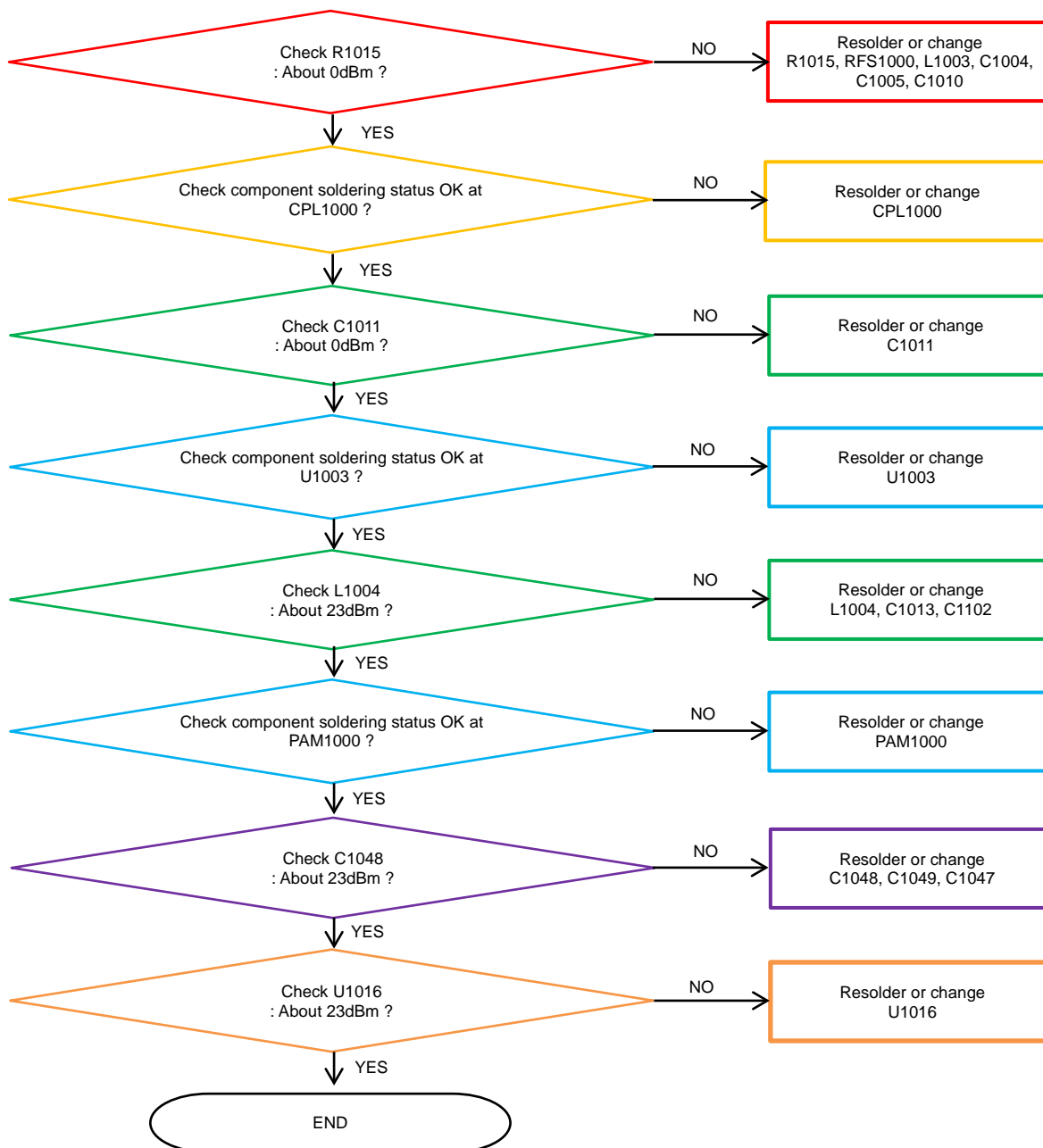
## 8. Level 3 Repair

### 8-4-30. LTE B40 RX [SM-J610F/FN]



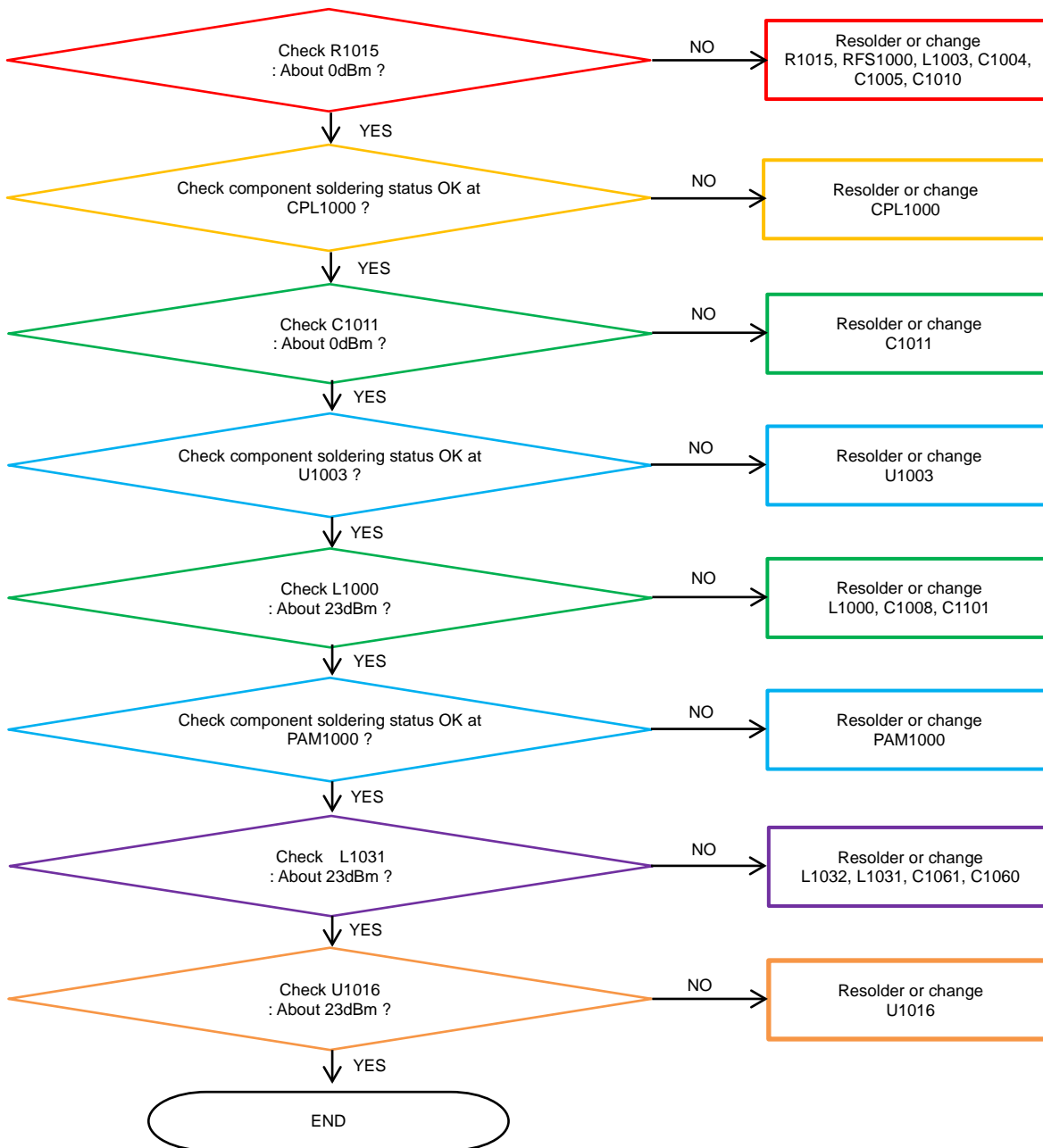
## 8. Level 3 Repair

### 8-4-31. GSM 850 / GSM900 TX



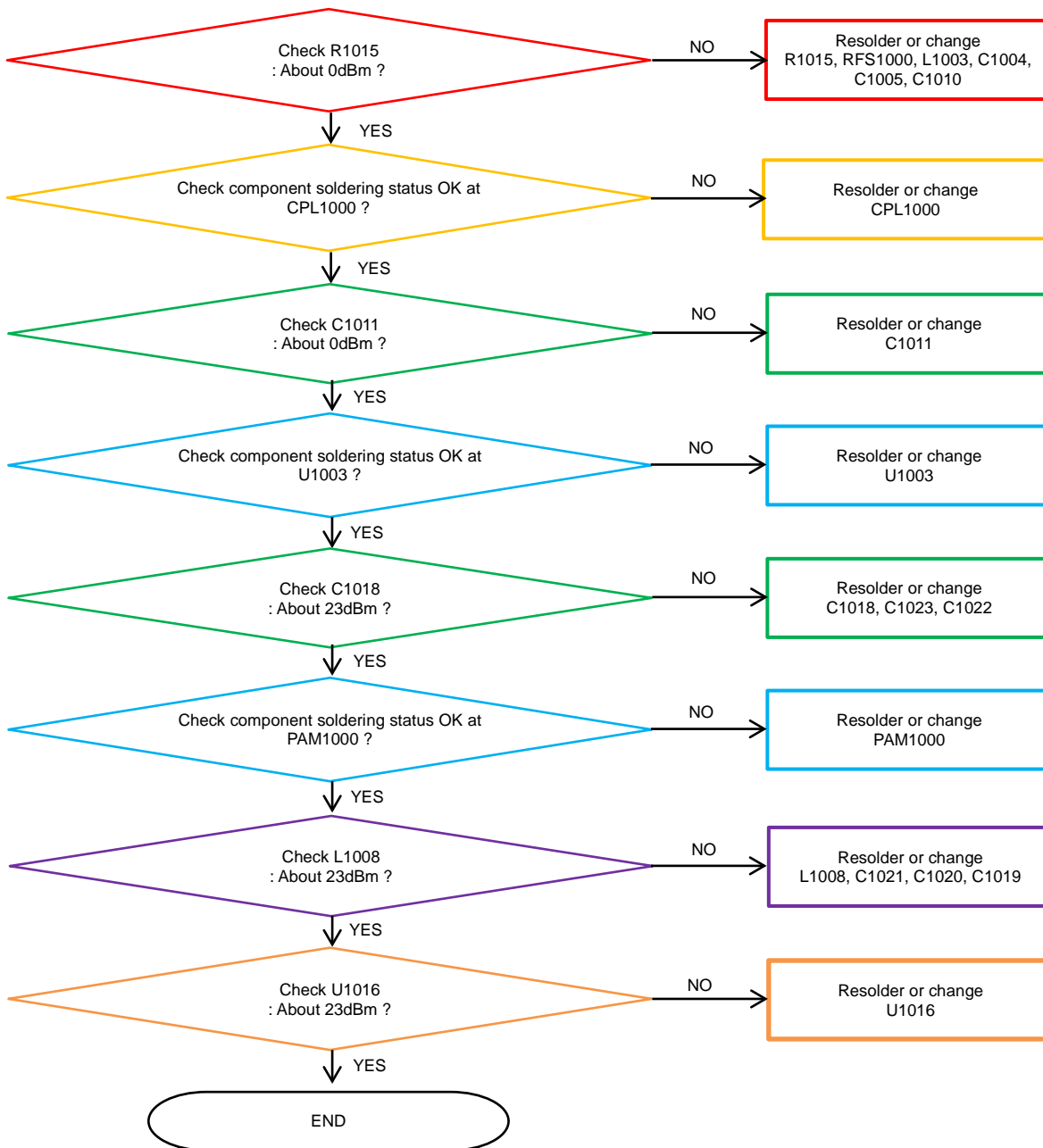
## 8. Level 3 Repair

### 8-4-32. GSM1800/ GSM1900 TX



## 8. Level 3 Repair

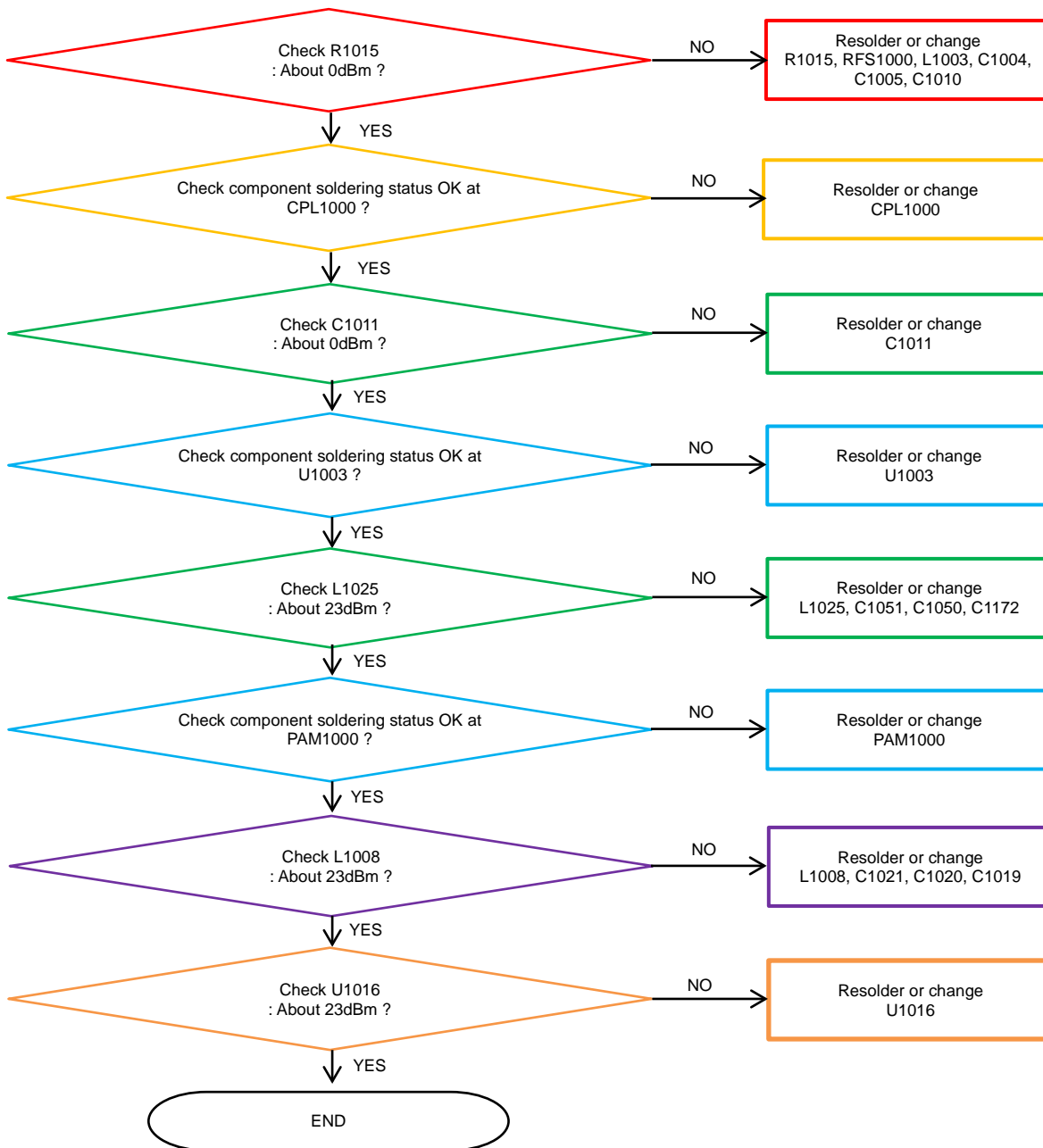
### 8-4-33. LTE, WCDMA B1 TX





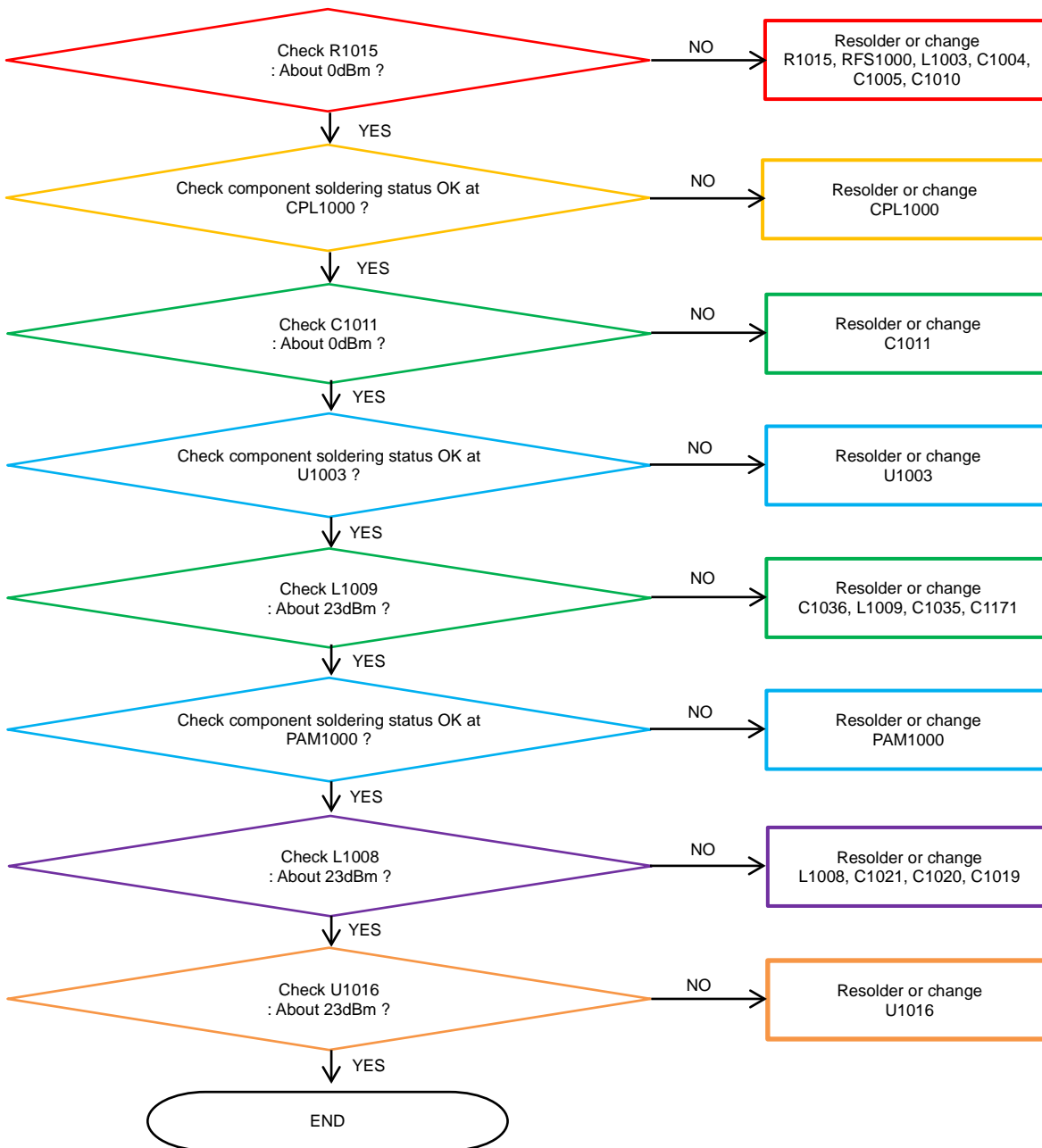
## 8. Level 3 Repair

### 8-4-34. LTE, WCDMA B2 TX



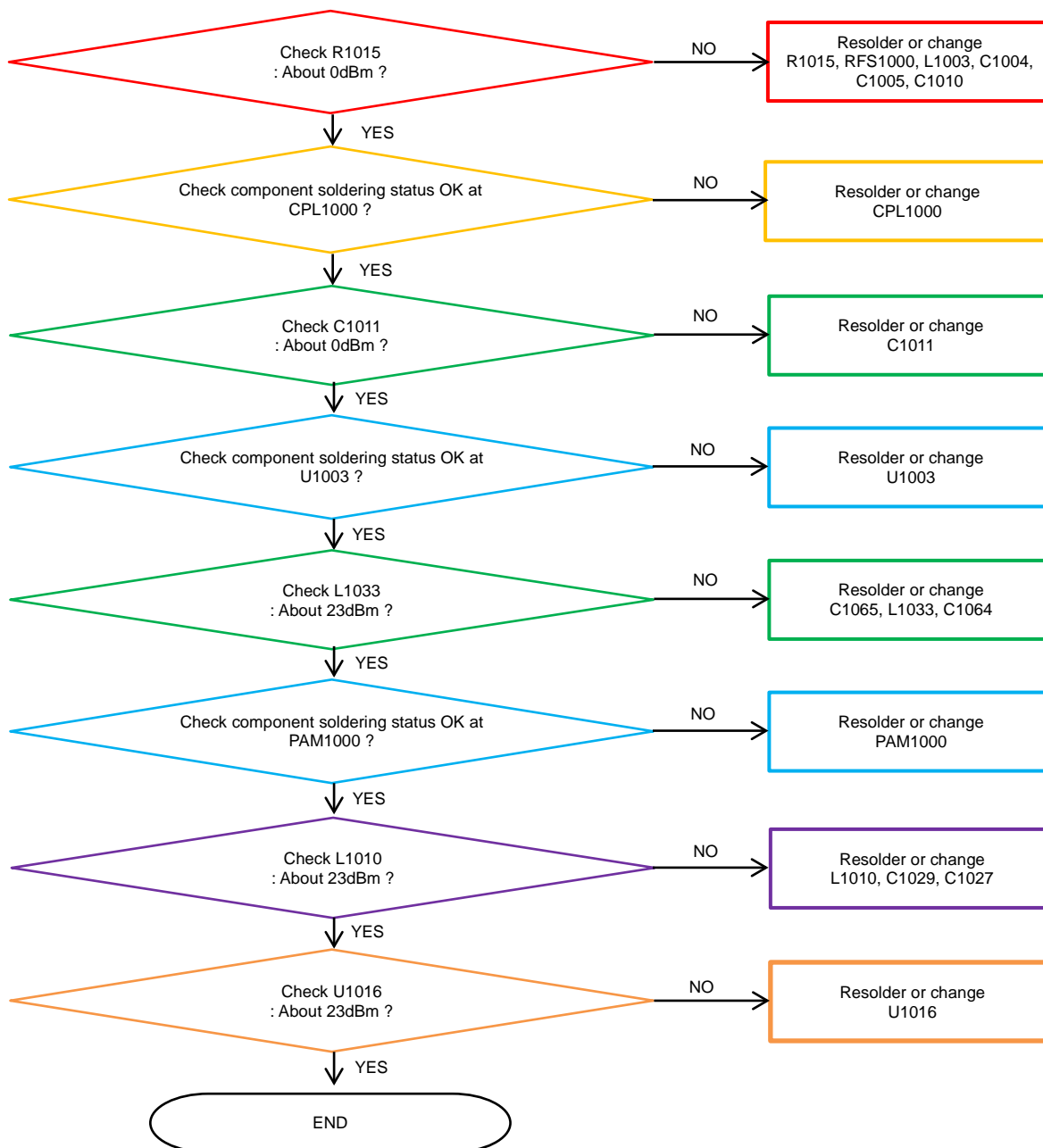
## 8. Level 3 Repair

### 8-4-35. LTE B3 TX



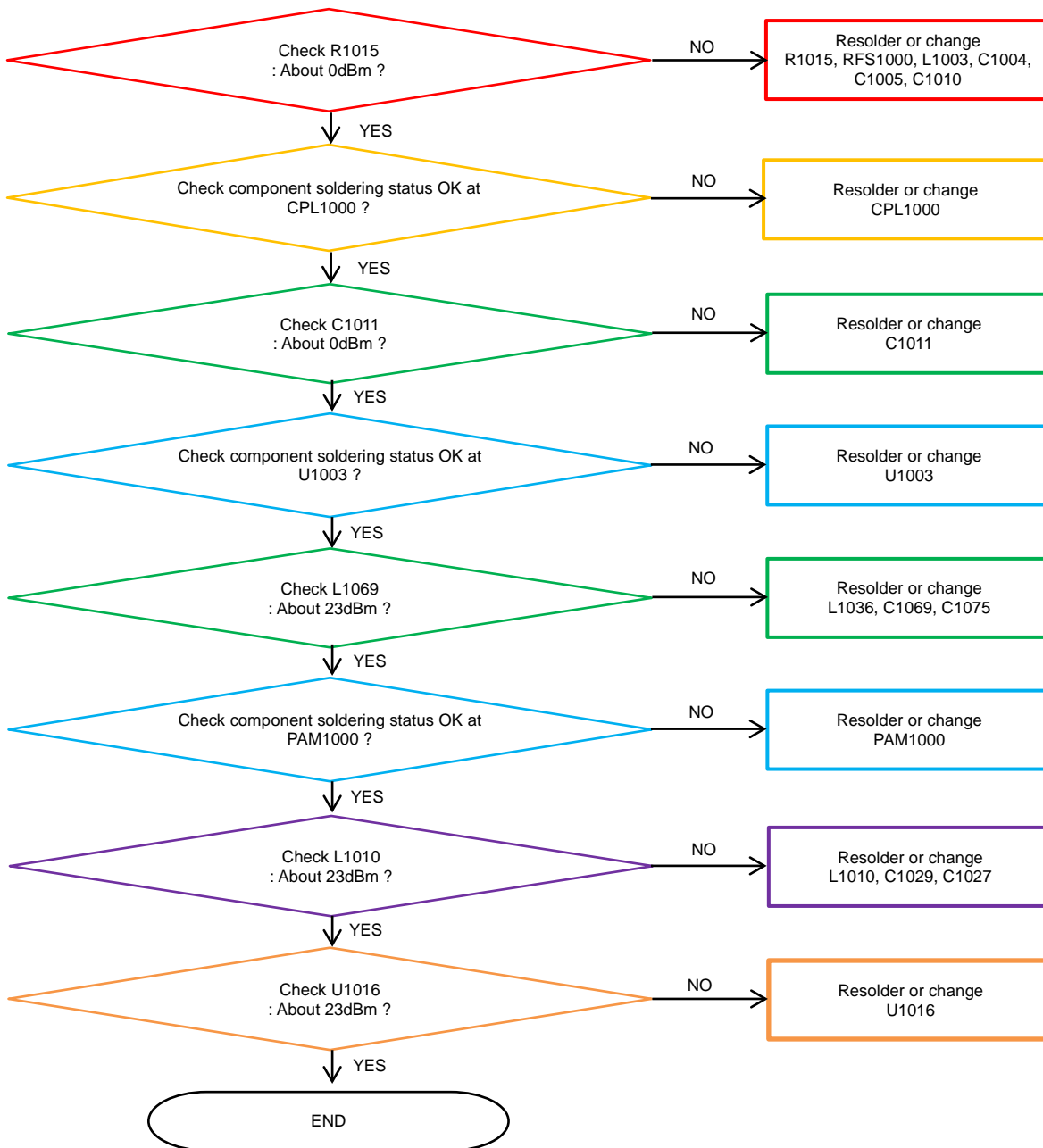
## 8. Level 3 Repair

### 8-4-35. LTE, WCDMA B5 TX



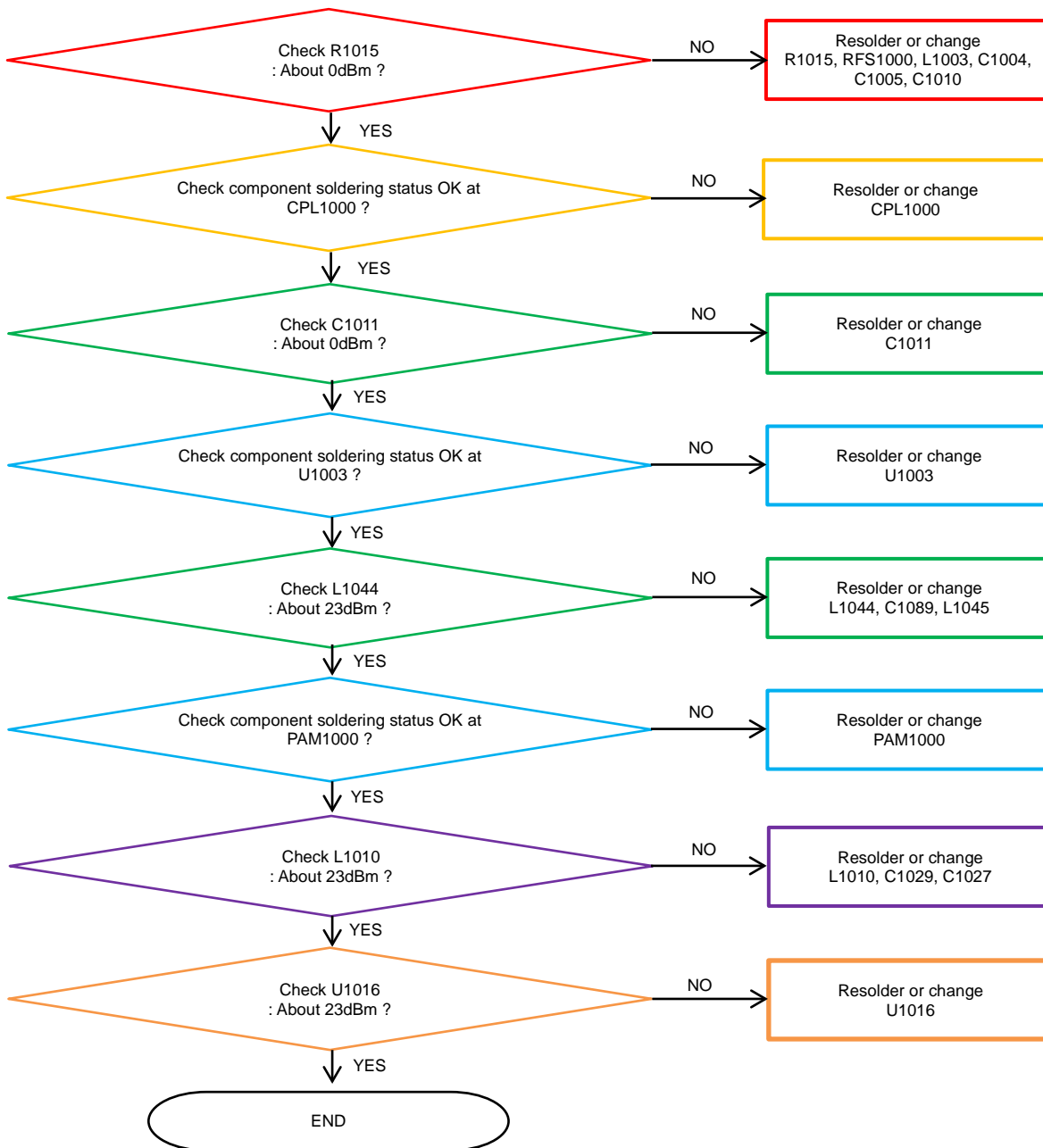
## 8. Level 3 Repair

### 8-4-36. LTE, WCDMA B8 TX



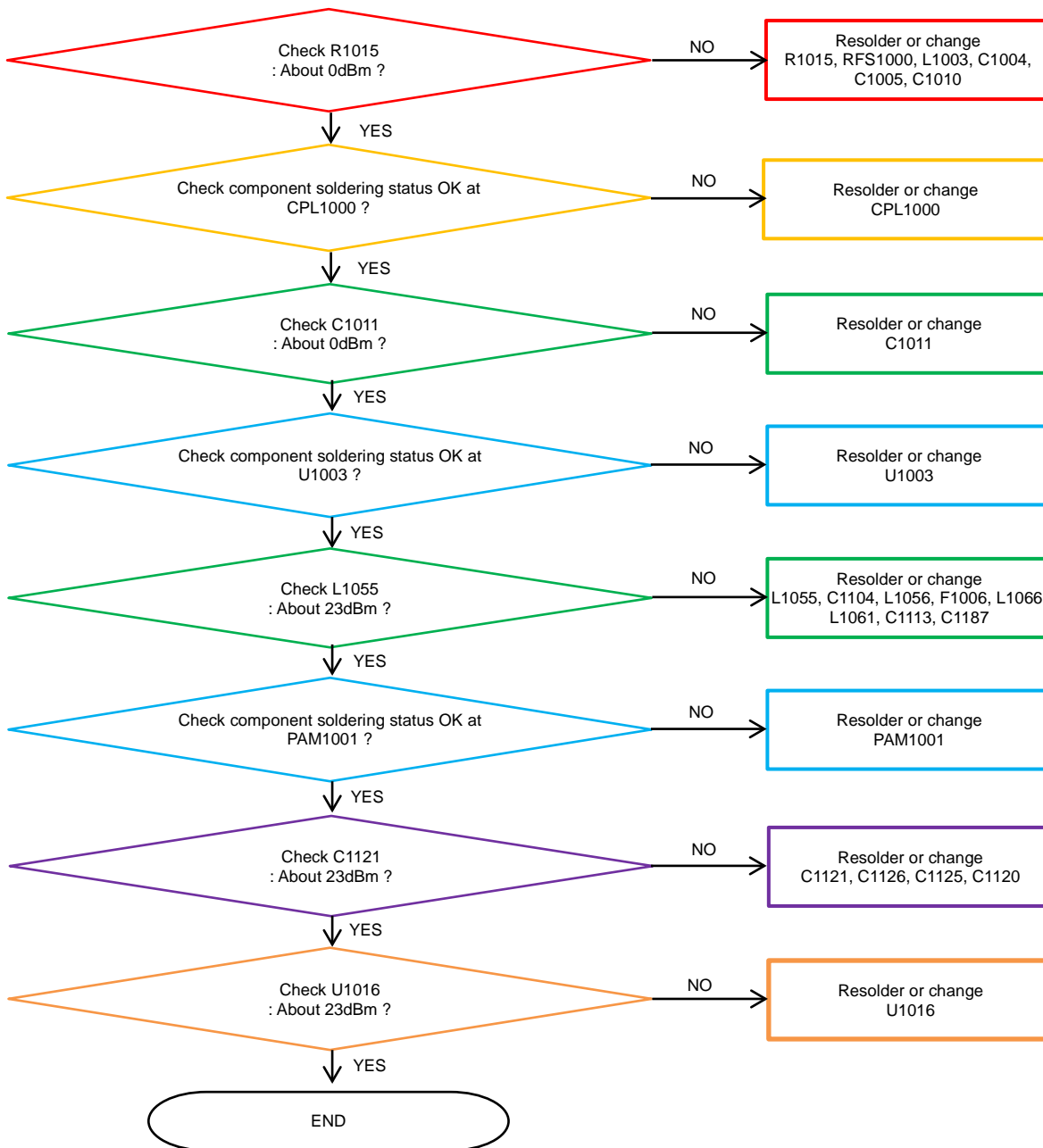
## 8. Level 3 Repair

### 8-4-37. LTE B20 TX



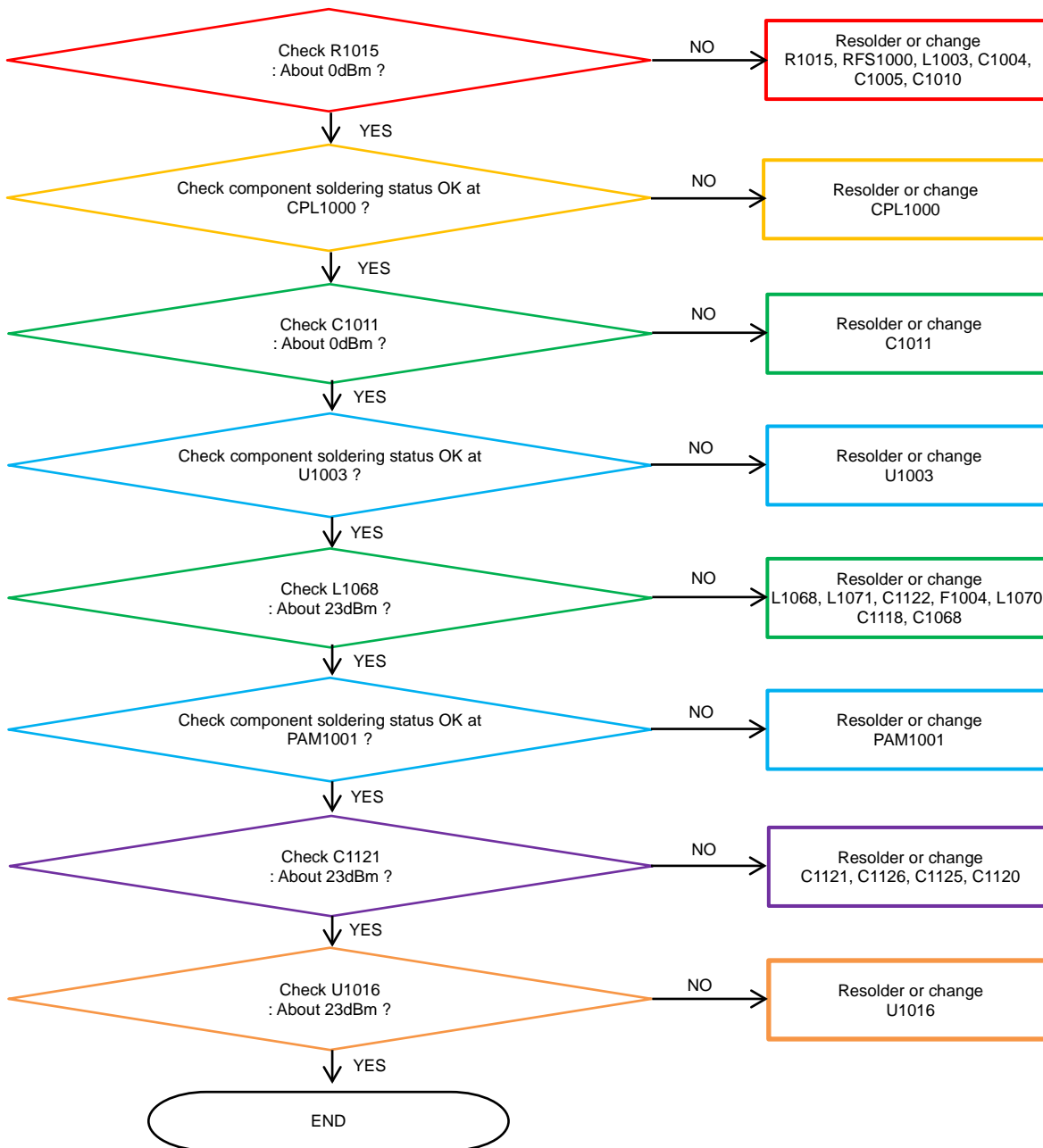
## 8. Level 3 Repair

### 8-4-38. LTE B7 TX



## 8. Level 3 Repair

### 8-4-39. LTE B38,41 TX [SM-J610F/FN]



## 8. Level 3 Repair

### 8-4-40. LTE B40 TX [SM-J610F/FN]

