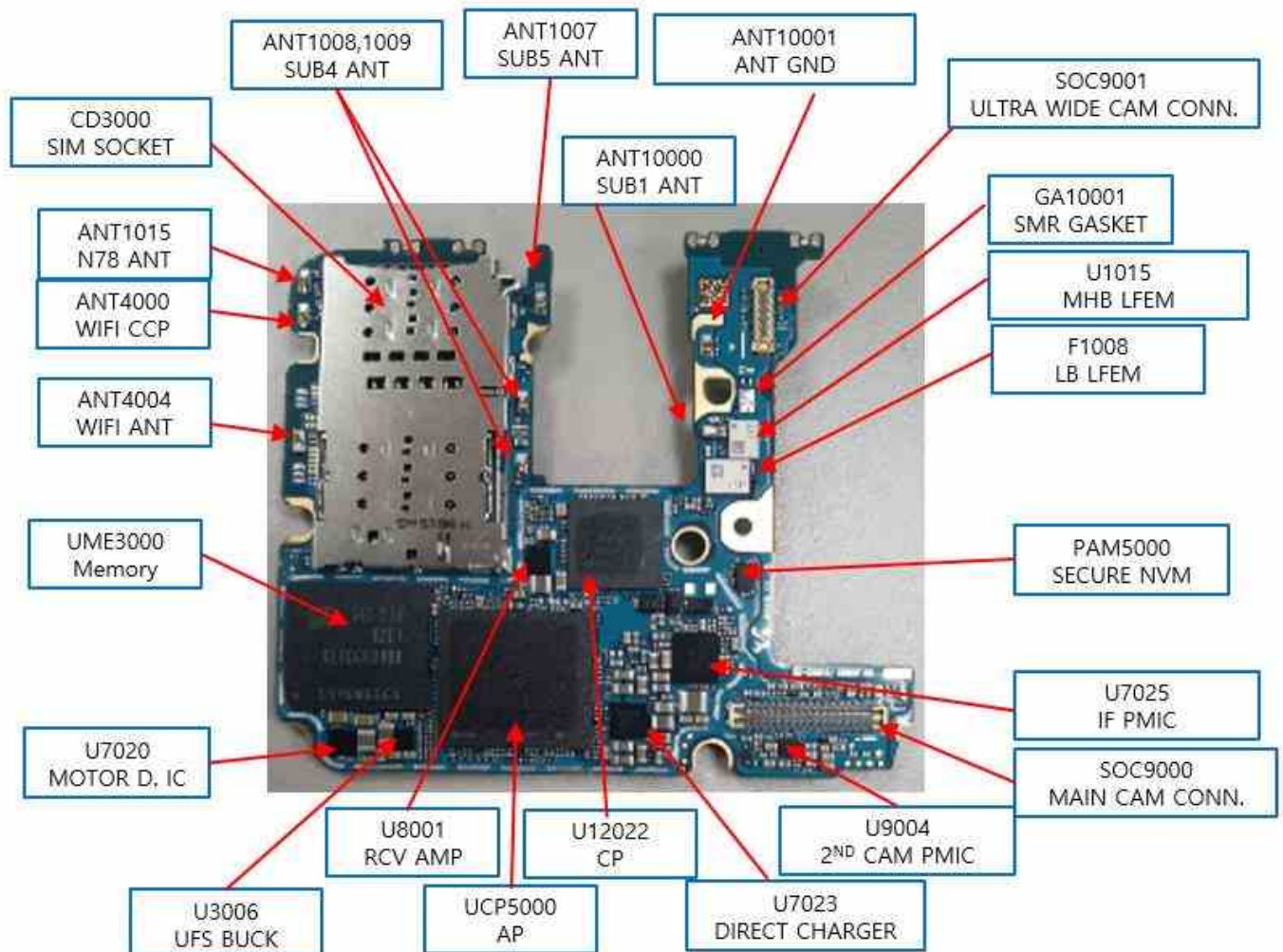


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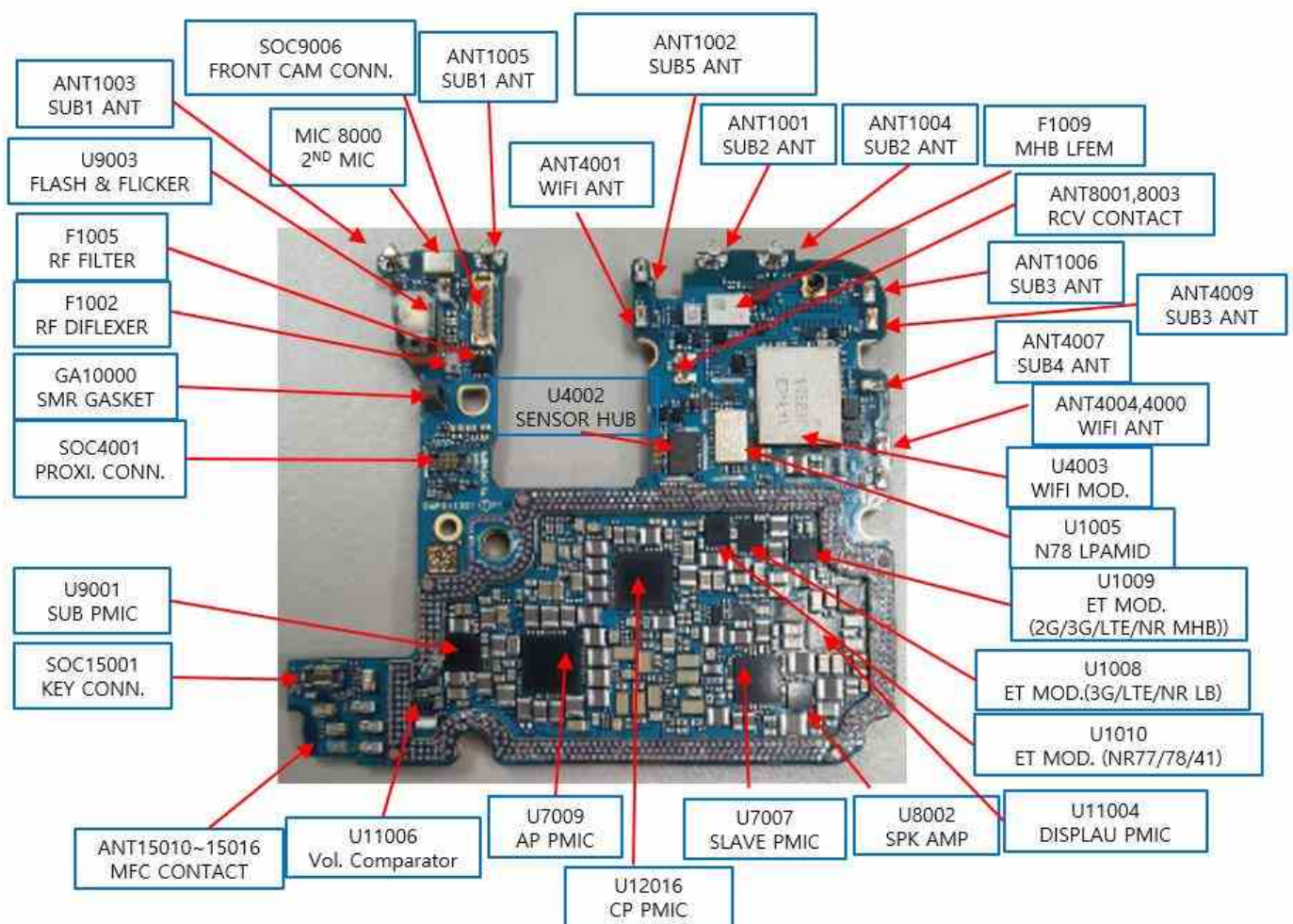
## 8. Level 3 Repair

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### 8-1. Components Layout



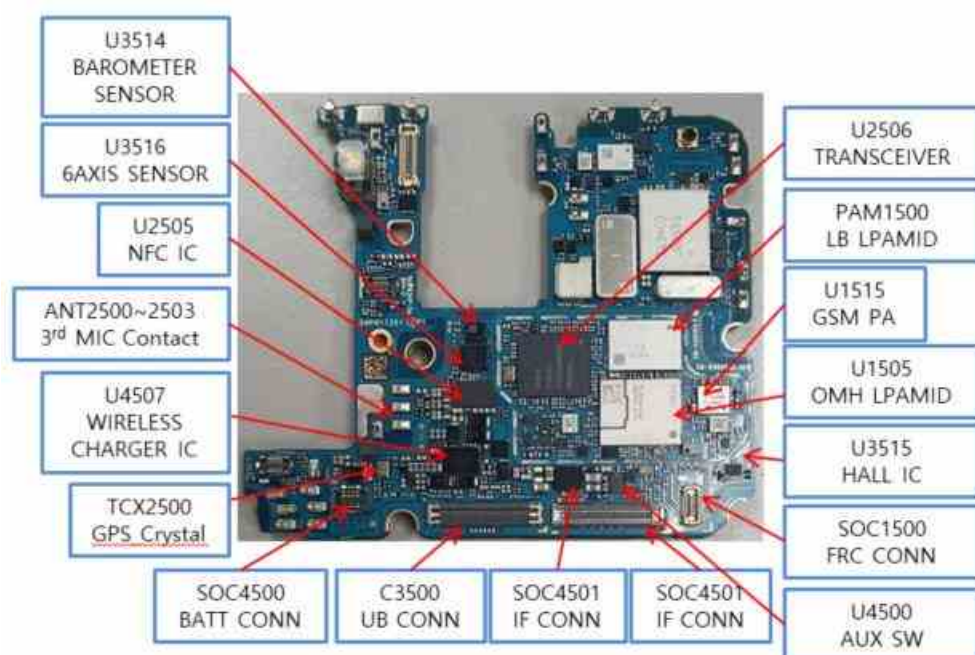
## 8. Level 3 Repair

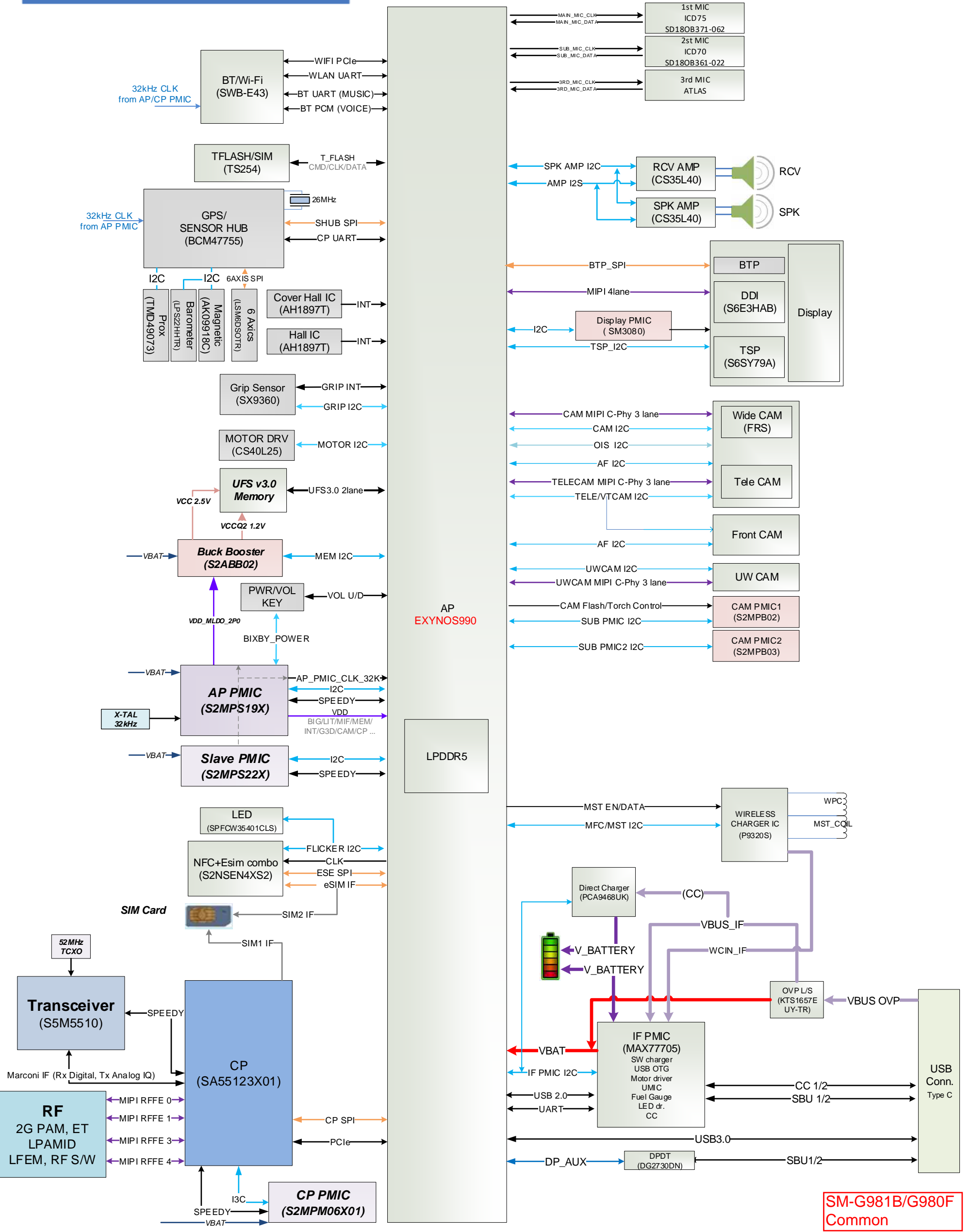


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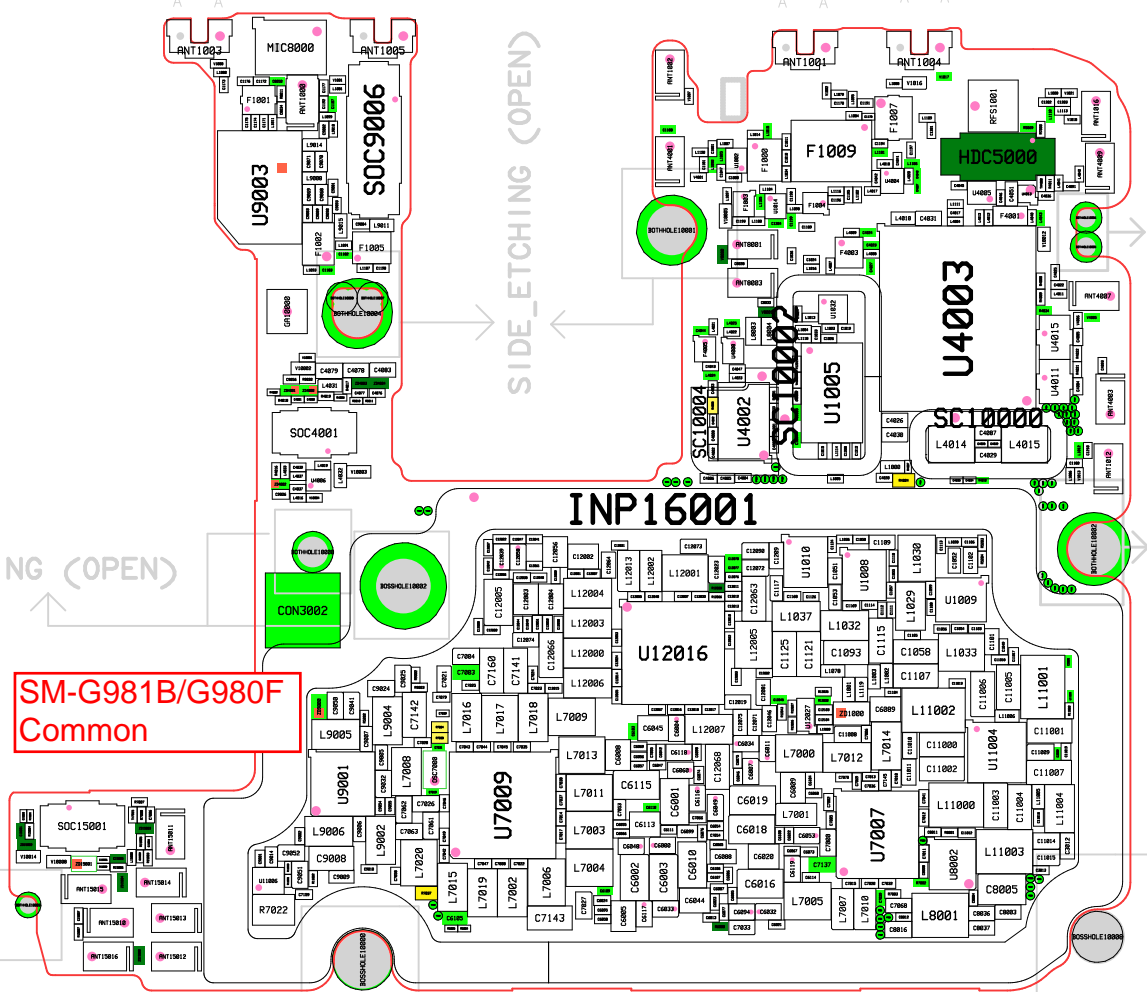
## 8. Level 3 Repair

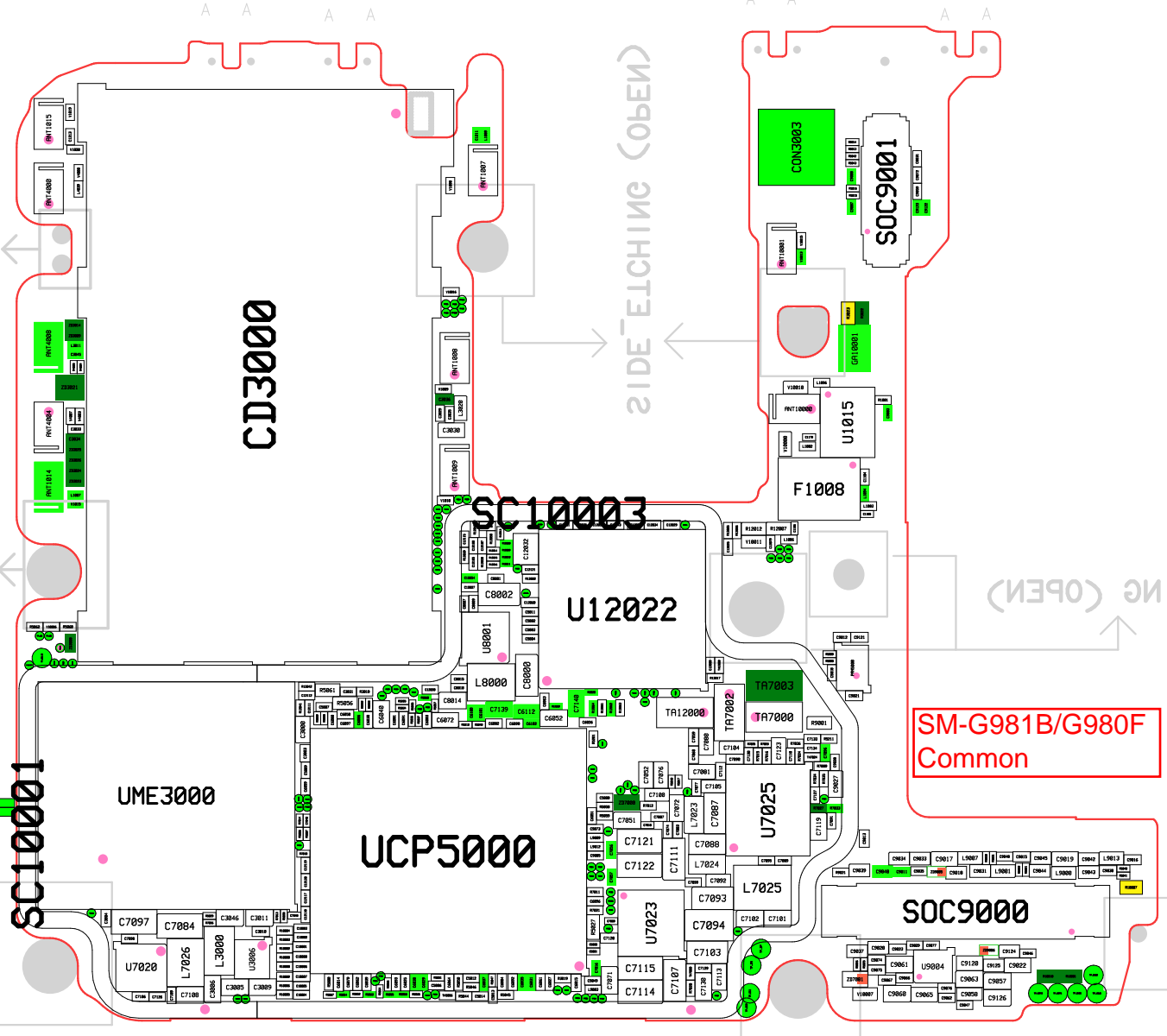
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CD3000

SC10001

UME3000

UCP5000

SC10003

U12022

CON3003

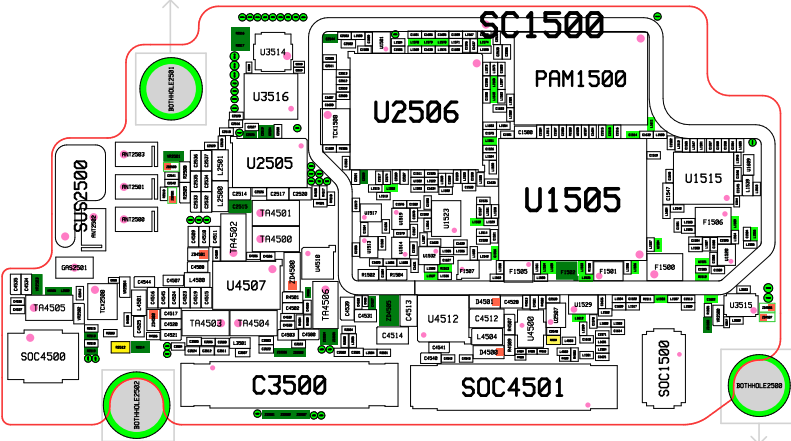
SOC9001

F1008

SM-G981B/G980F  
Common

SOC9000

SIDE ETCHING (OPEN)



INP5500

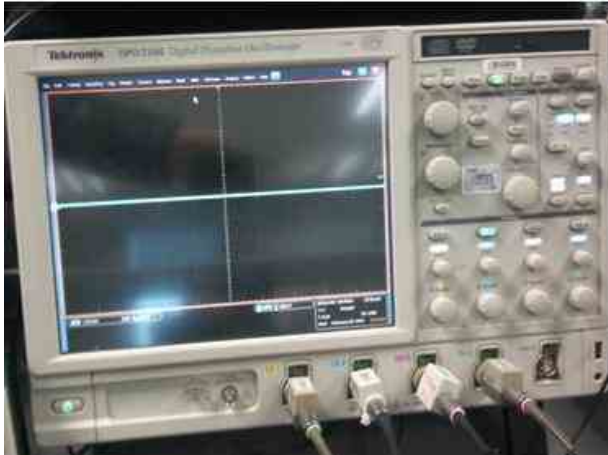


CON2501



## 8. Level 3 Repair

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



**Oscilloscope**



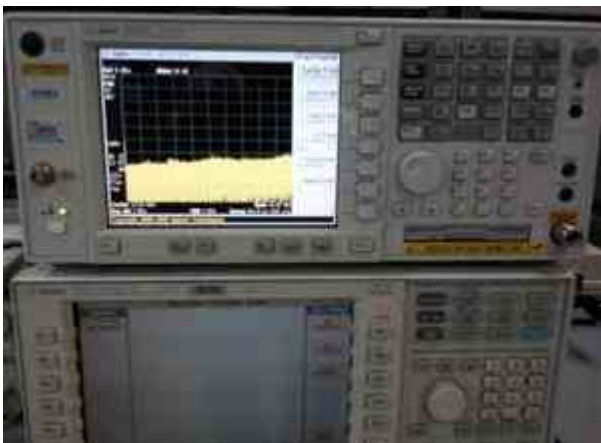
**Digital Multimeter**



**Power Supply**



**+ driver, ESD Safe Tweezer**



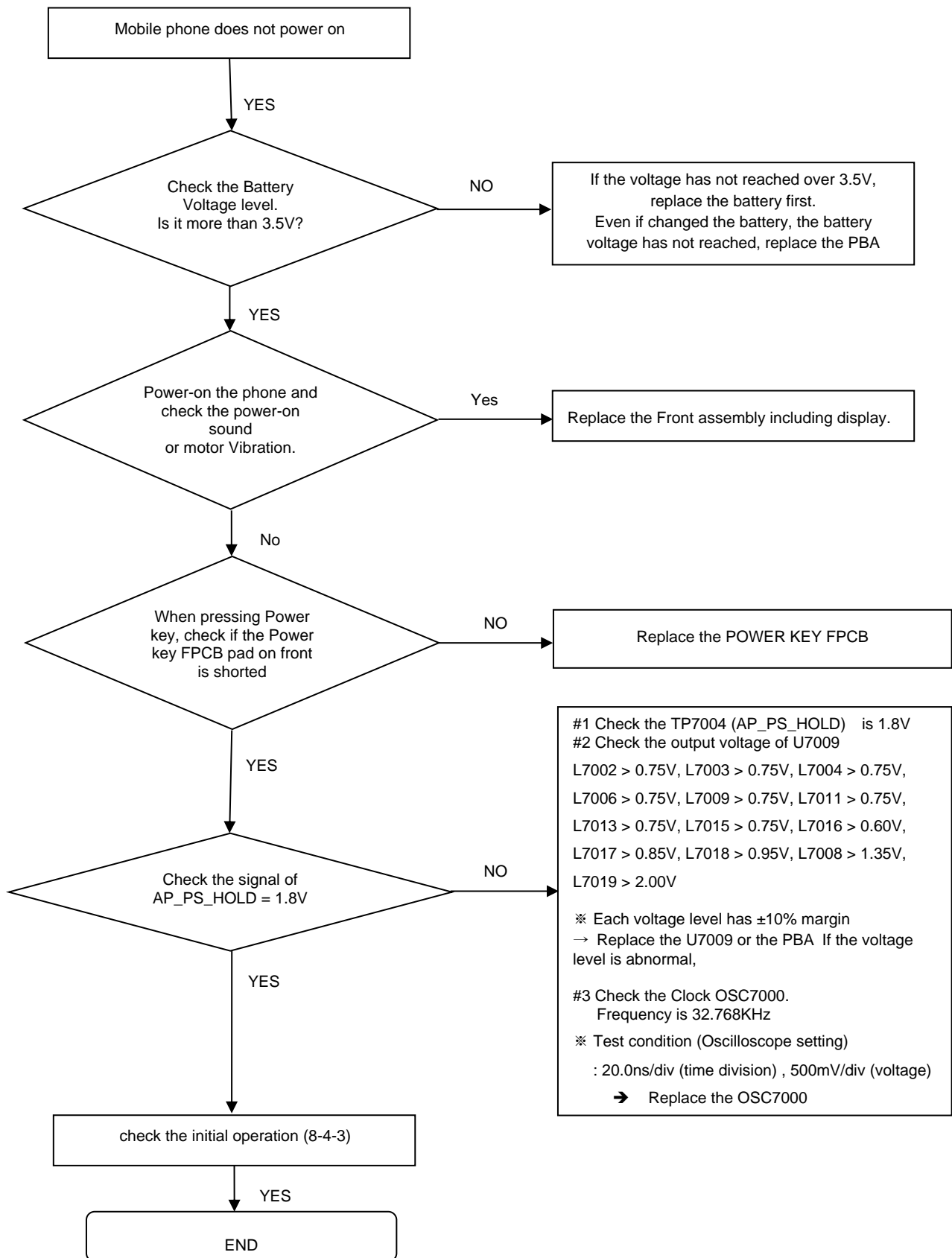
**8960 & Spectrum Analyzer**



**Soldering iron**

## 8. Level 3 Repair

### 8-4-1. Power on

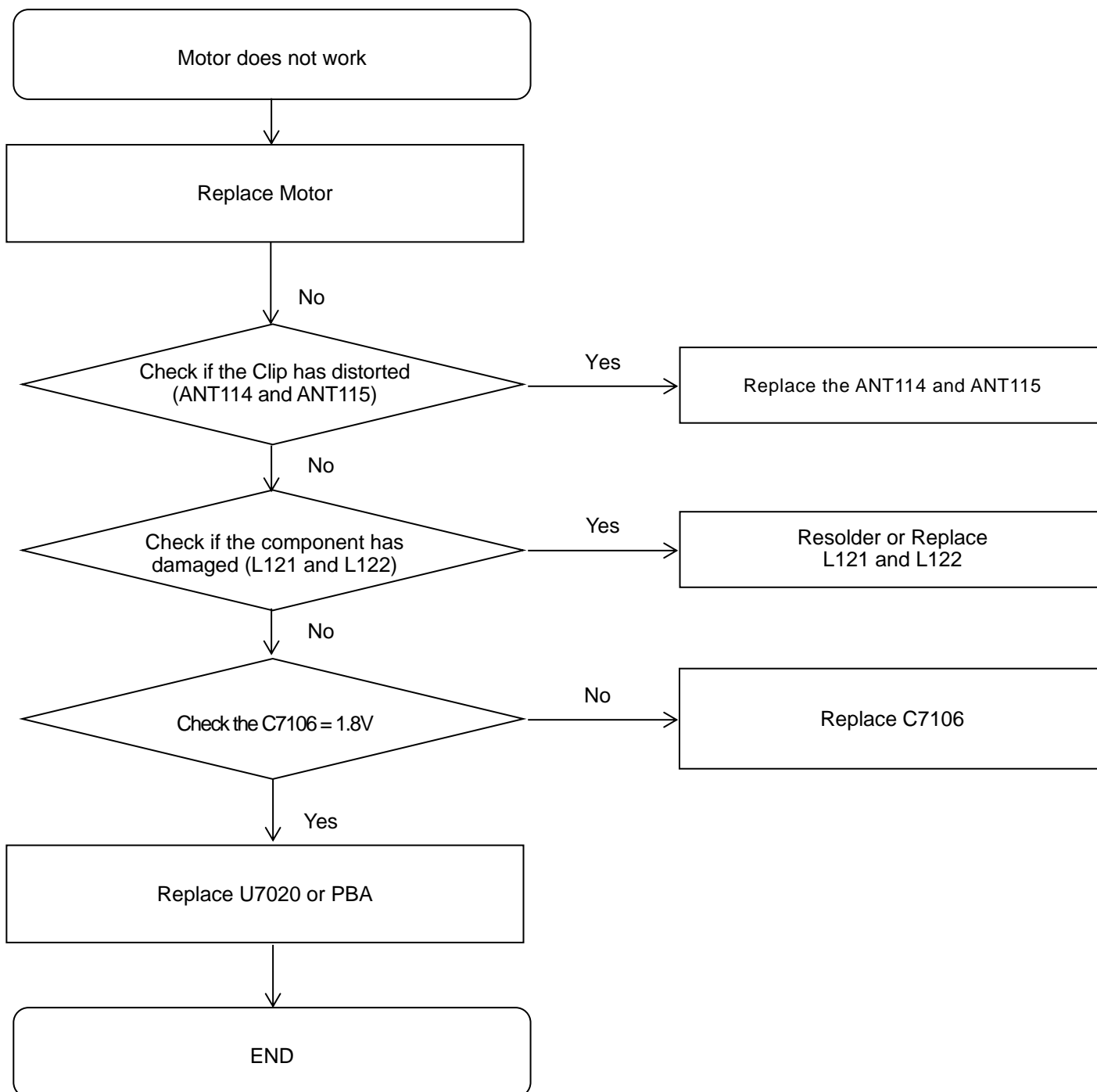


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## 8. Level 3 Repair

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### 8-4-2. Mot

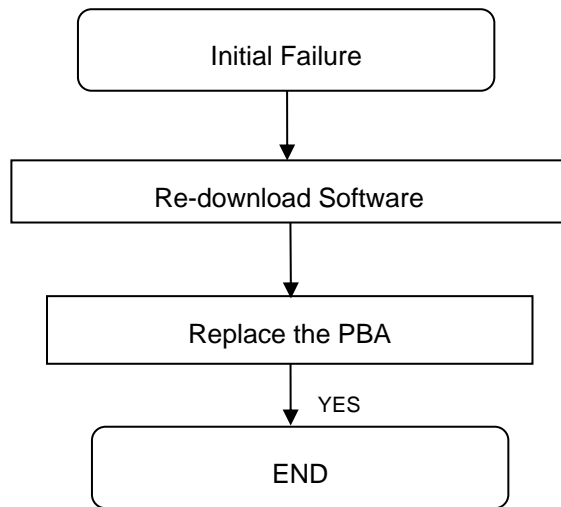


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## 8. Level 3 Repair

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### 8-4-3. initial

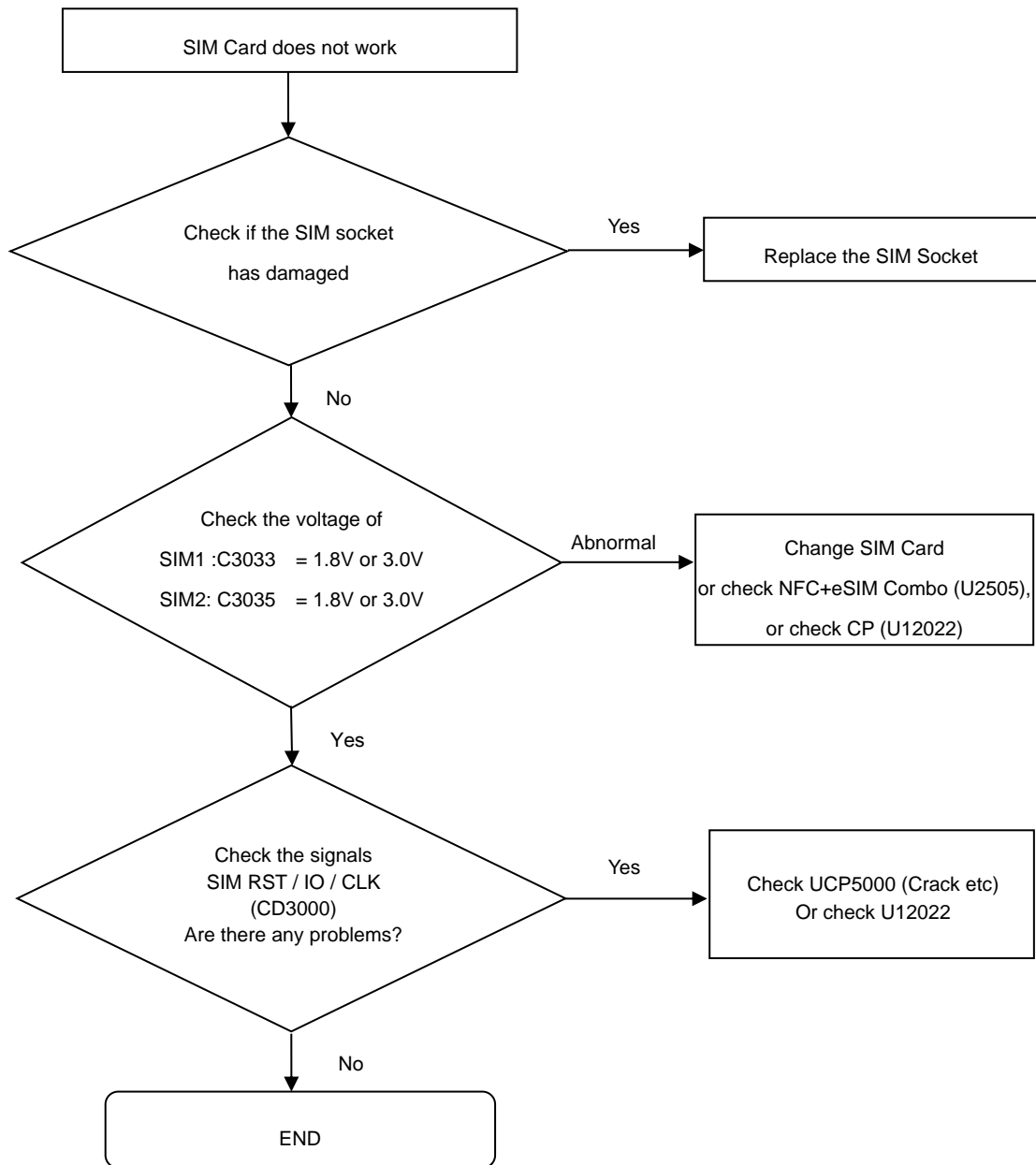


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## 8. Level 3 Repair

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### 8-4-4. SIM PART

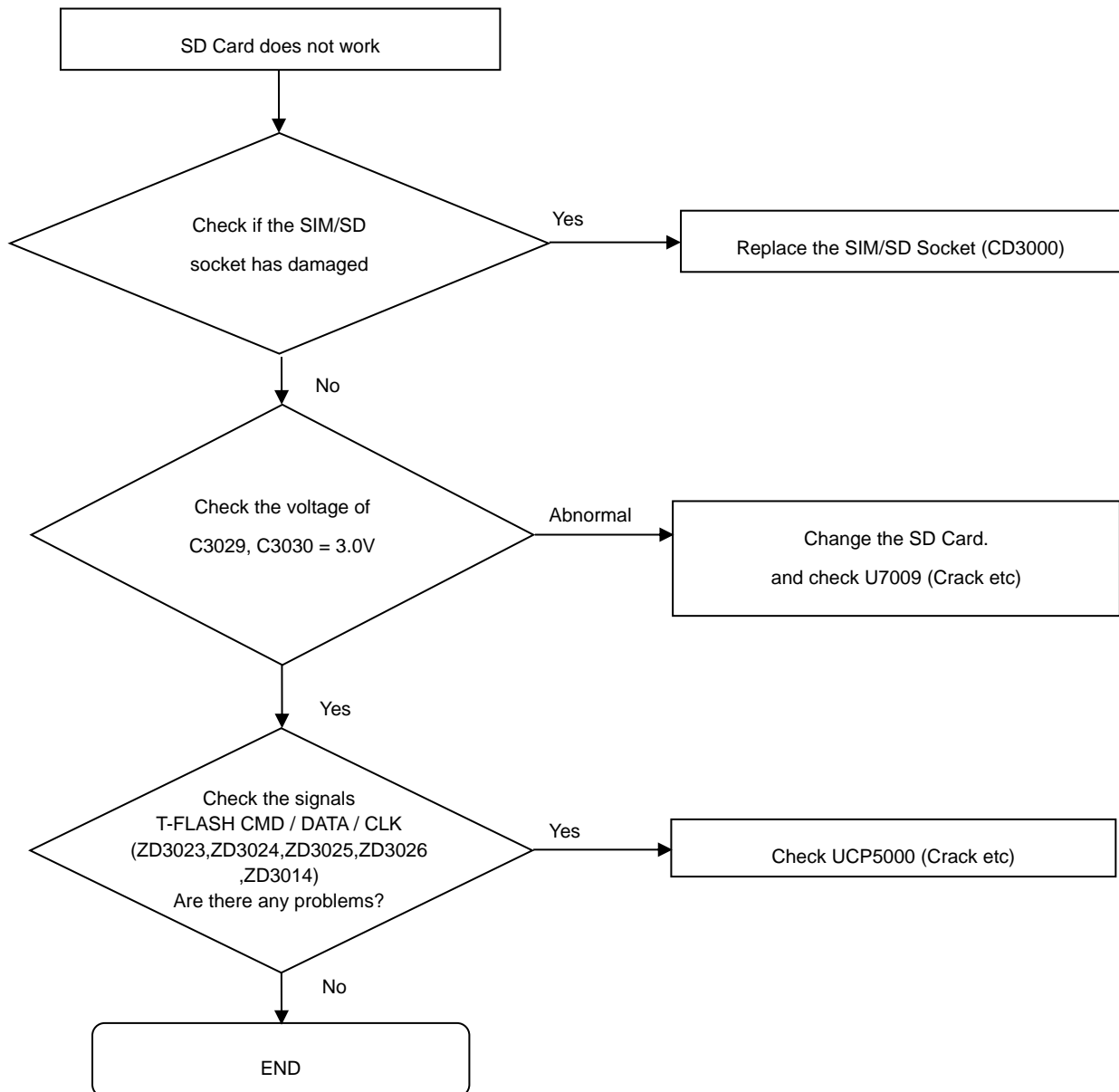


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## 8. Level 3 Repair

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### 8-4-5. SIM/SD PART

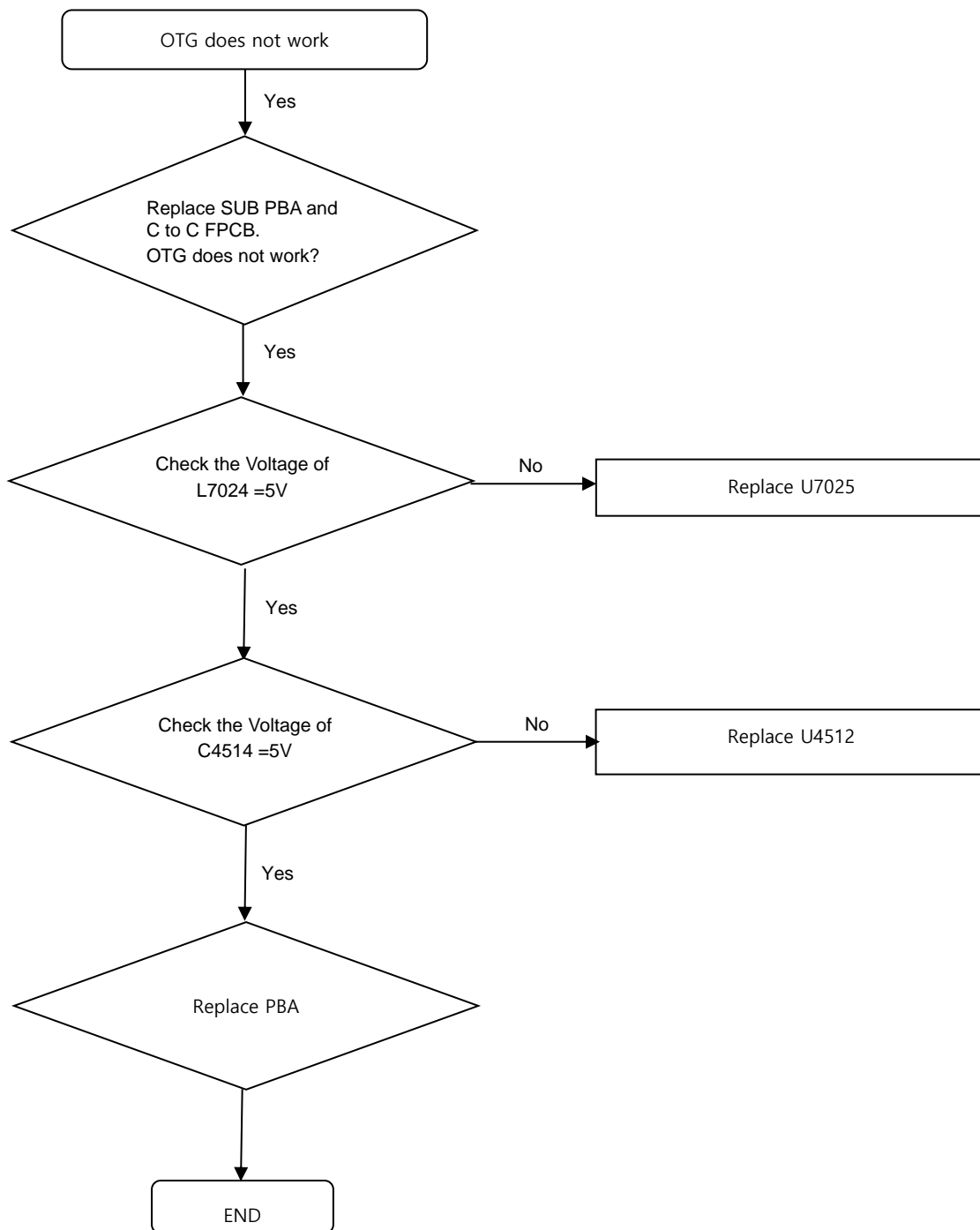


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## 8. Level 3 Repair

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### 8-4-6. OTG



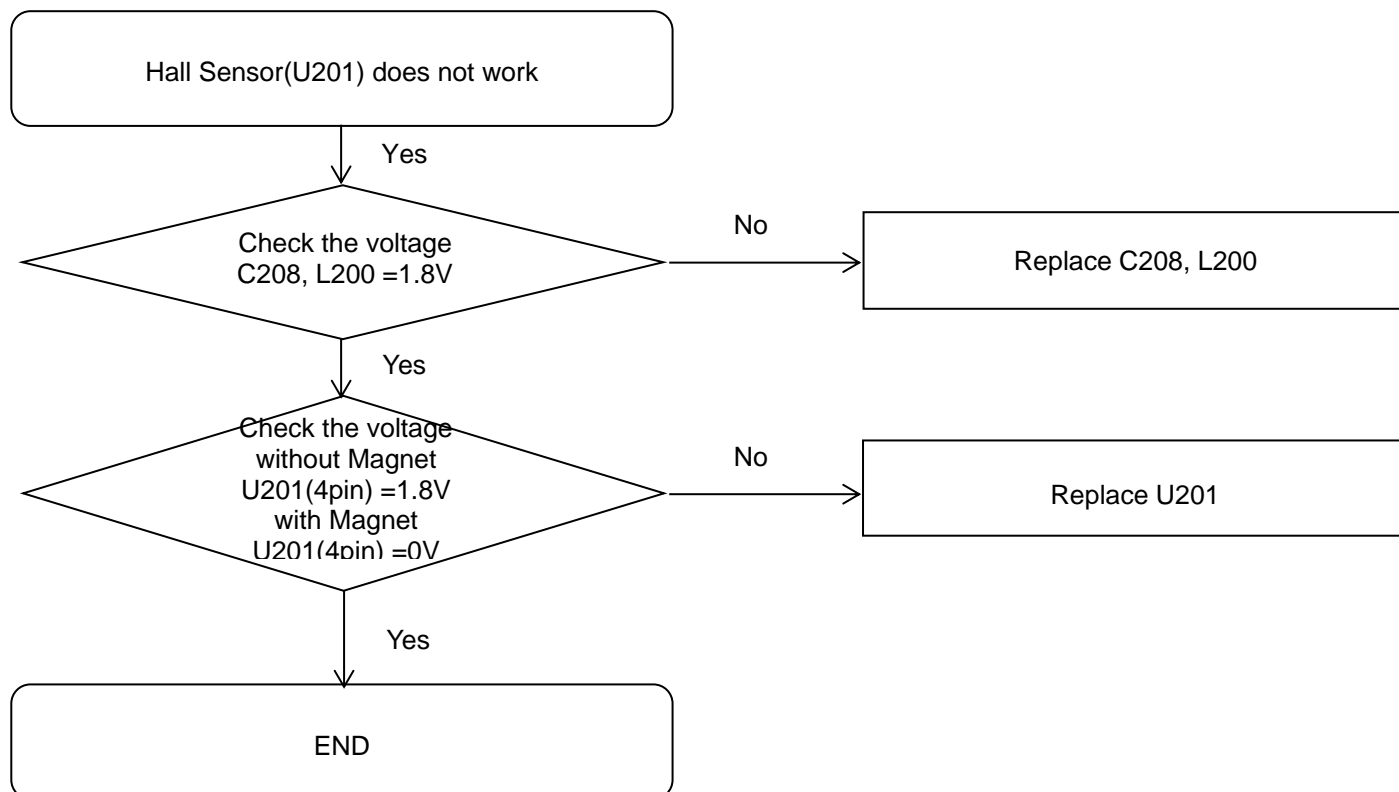
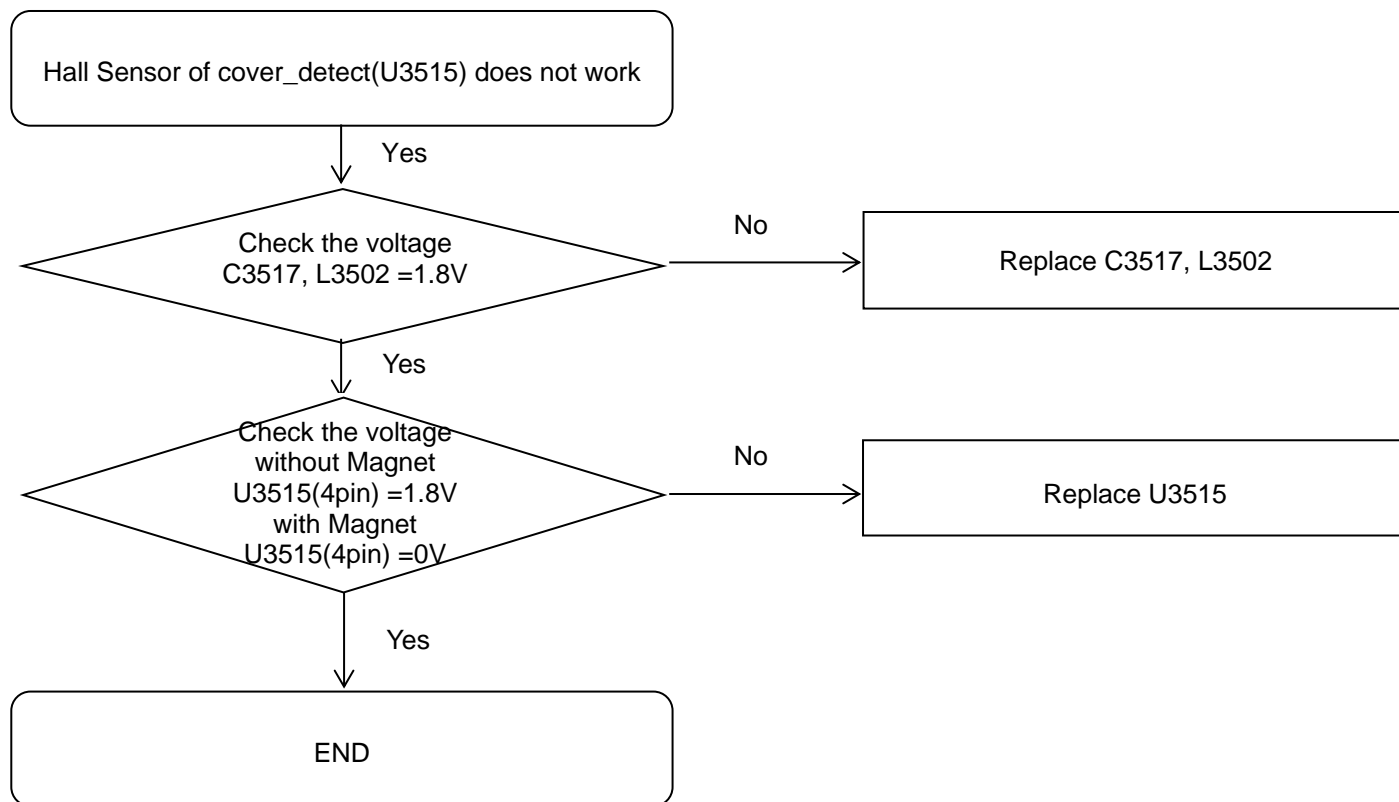


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## 8. Level 3 Repair

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### 8-4-7. Hall IC

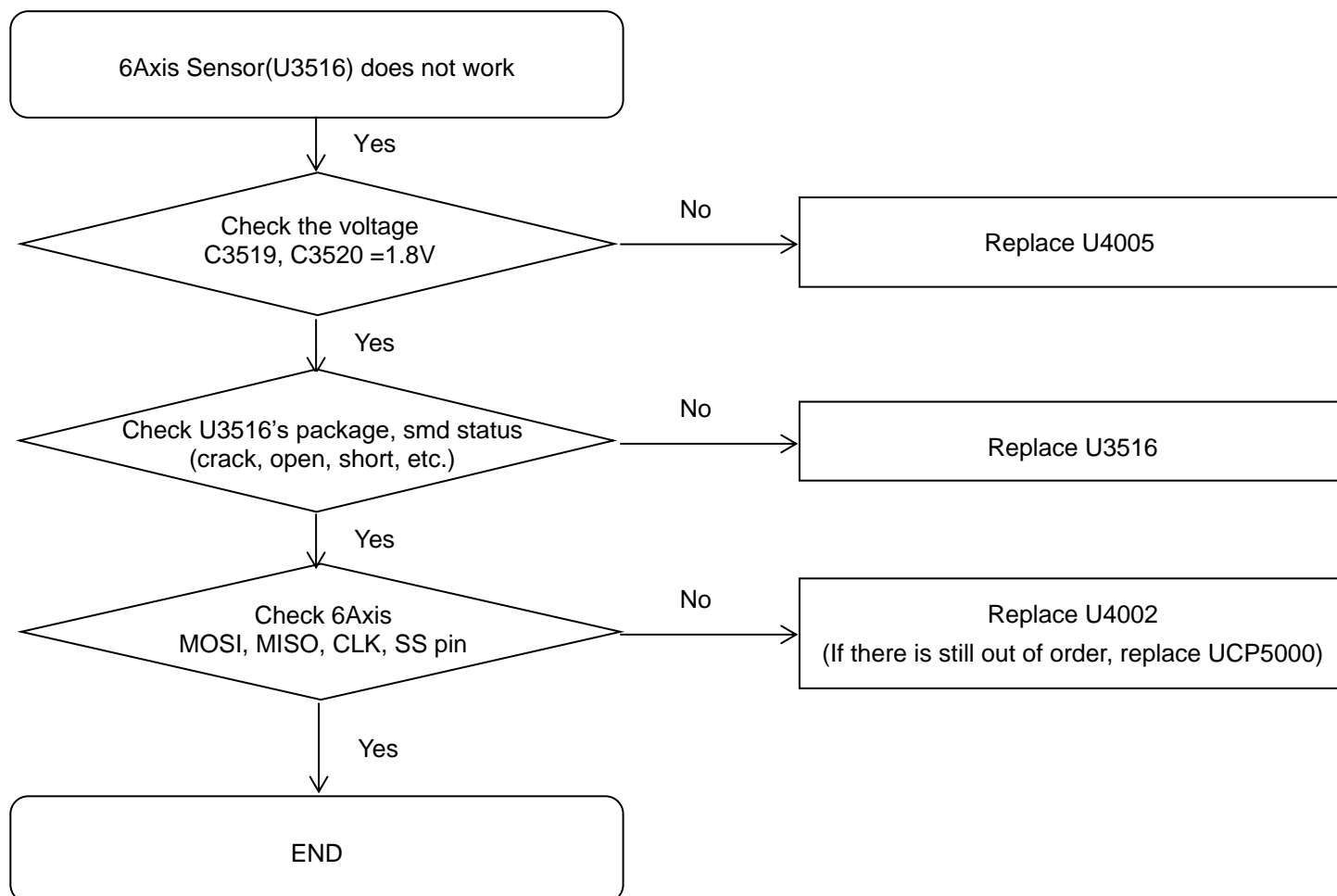


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## 8. Level 3 Repair

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### 8-4-8. 6Axis sensor

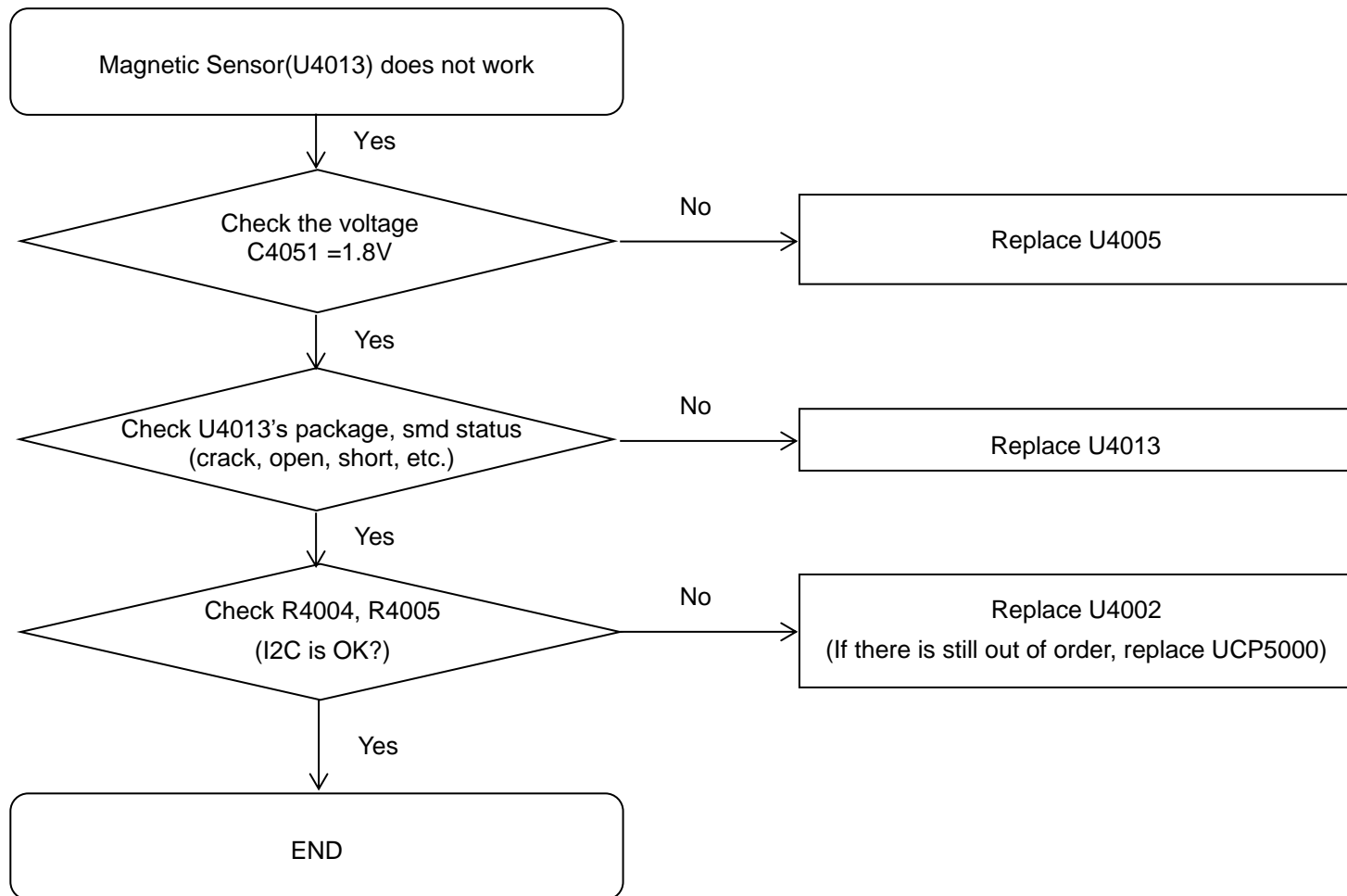


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## 8. Level 3 Repair

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### 8-4-9. Magnetic sensor

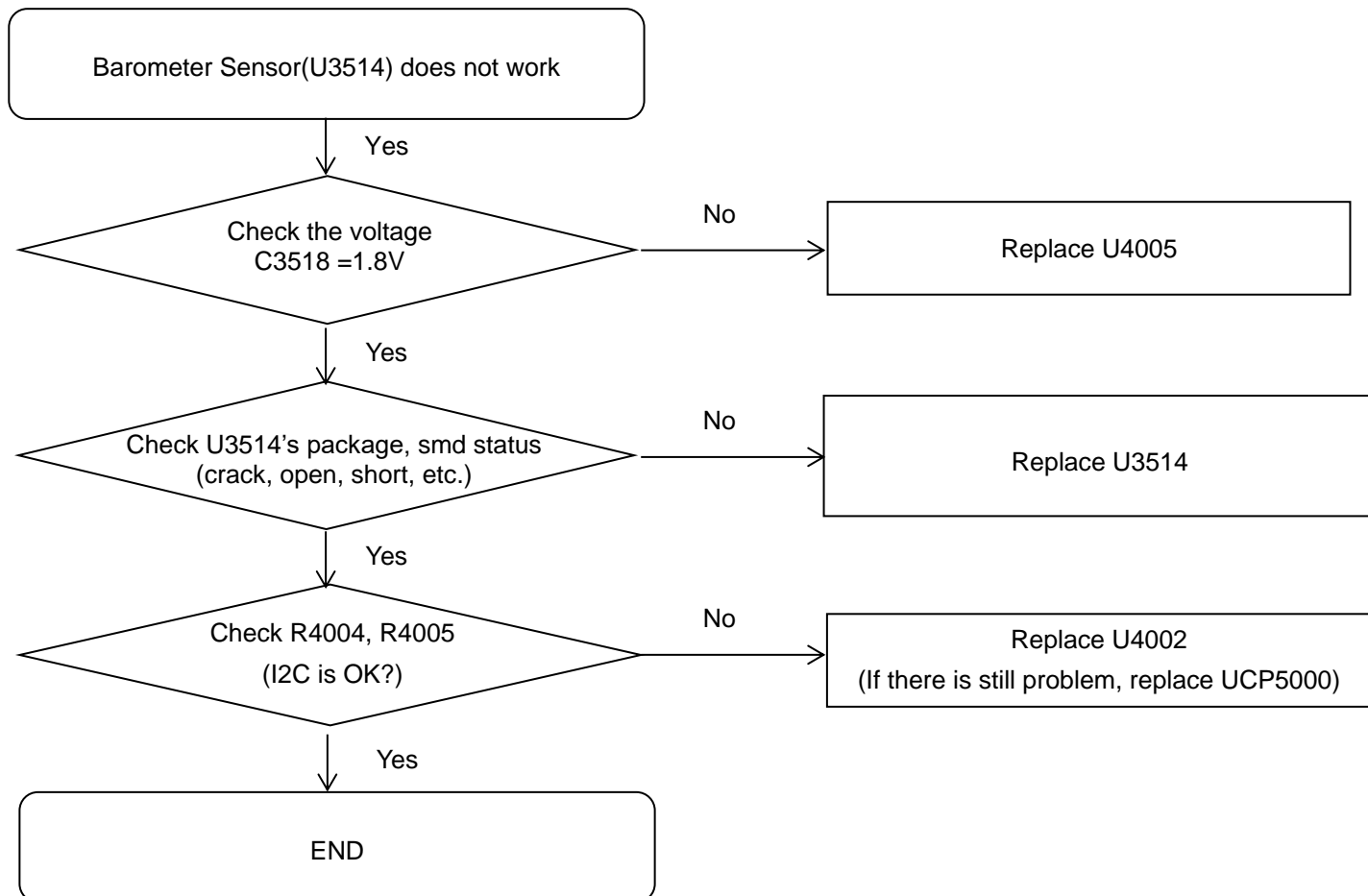


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## 8. Level 3 Repair

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### 8-4-10. Barometer sensor

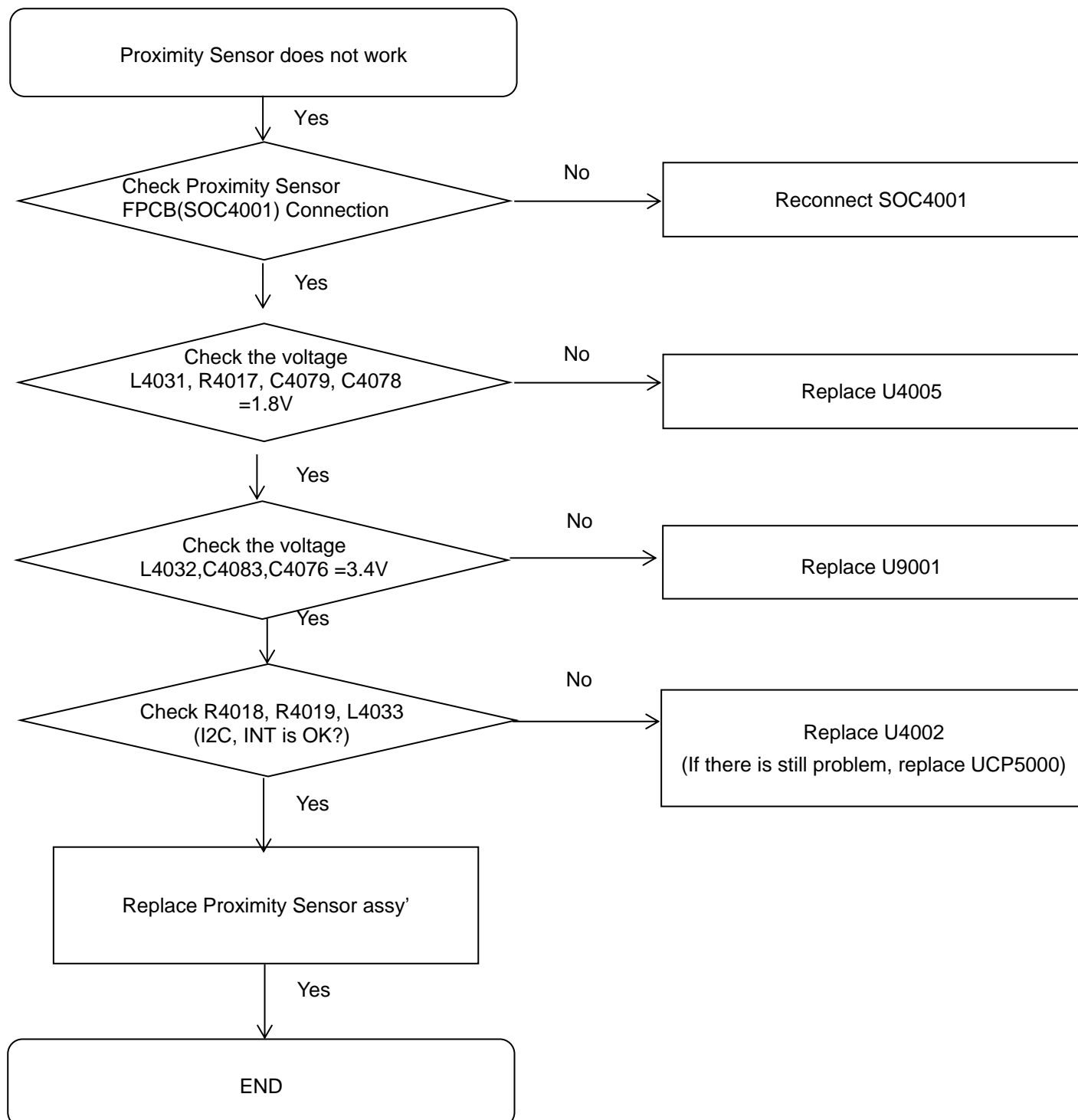


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## 8. Level 3 Repair

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### 8-4-11. Proximity Sensor

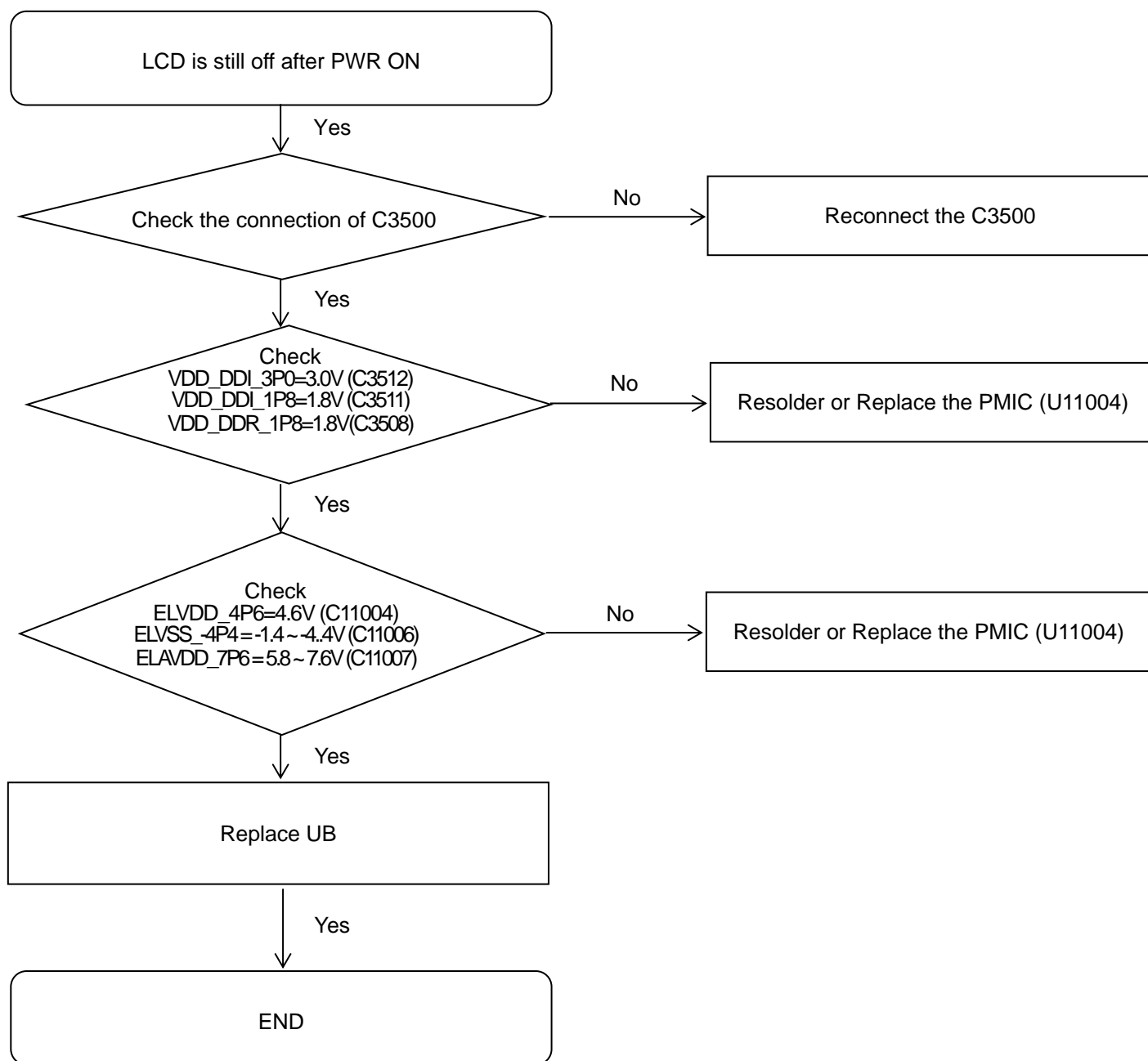


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## 8. Level 3 Repair

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### 8-4-12. Display

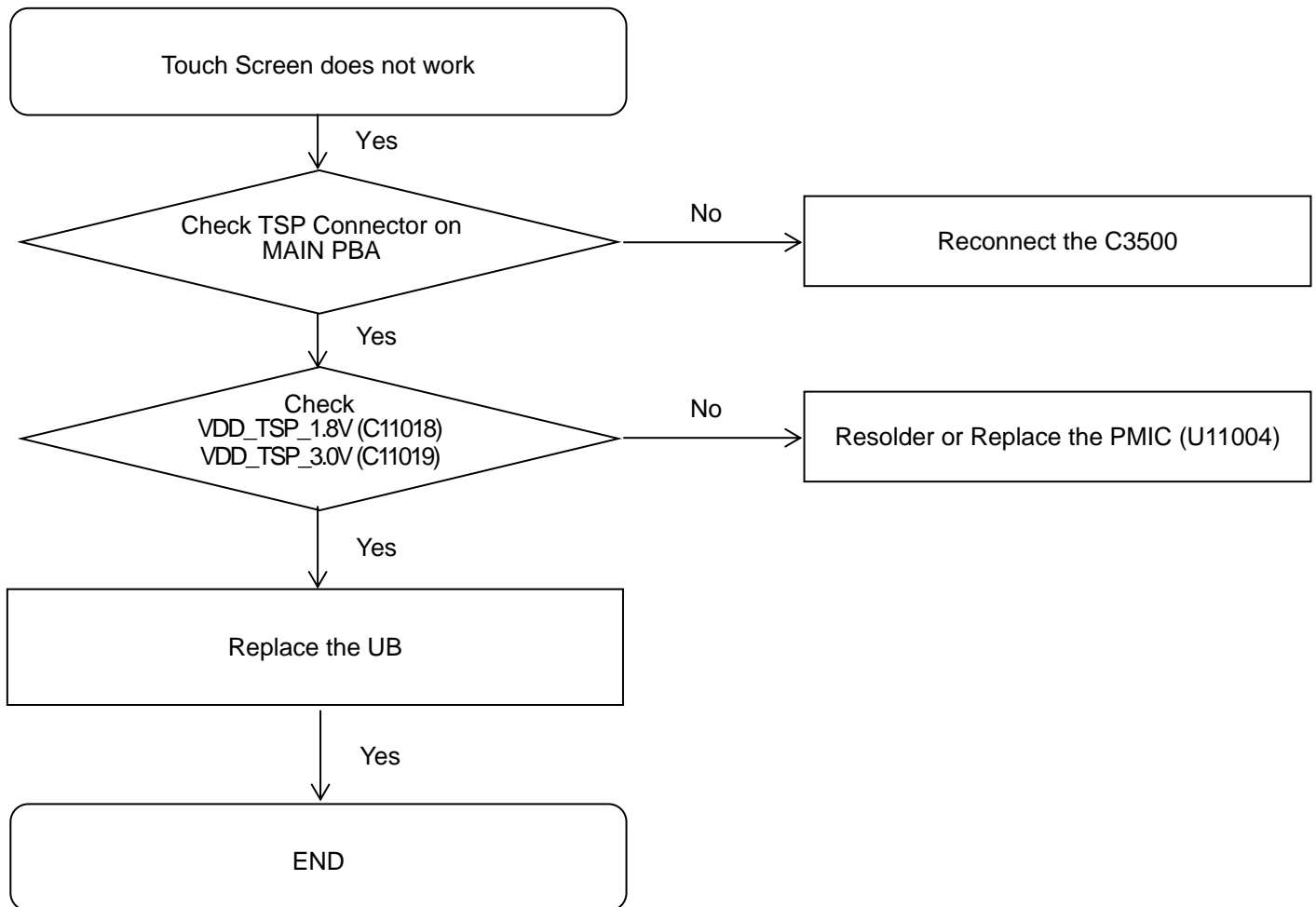


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## 8. Level 3 Repair

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### 8-4-13. TSP



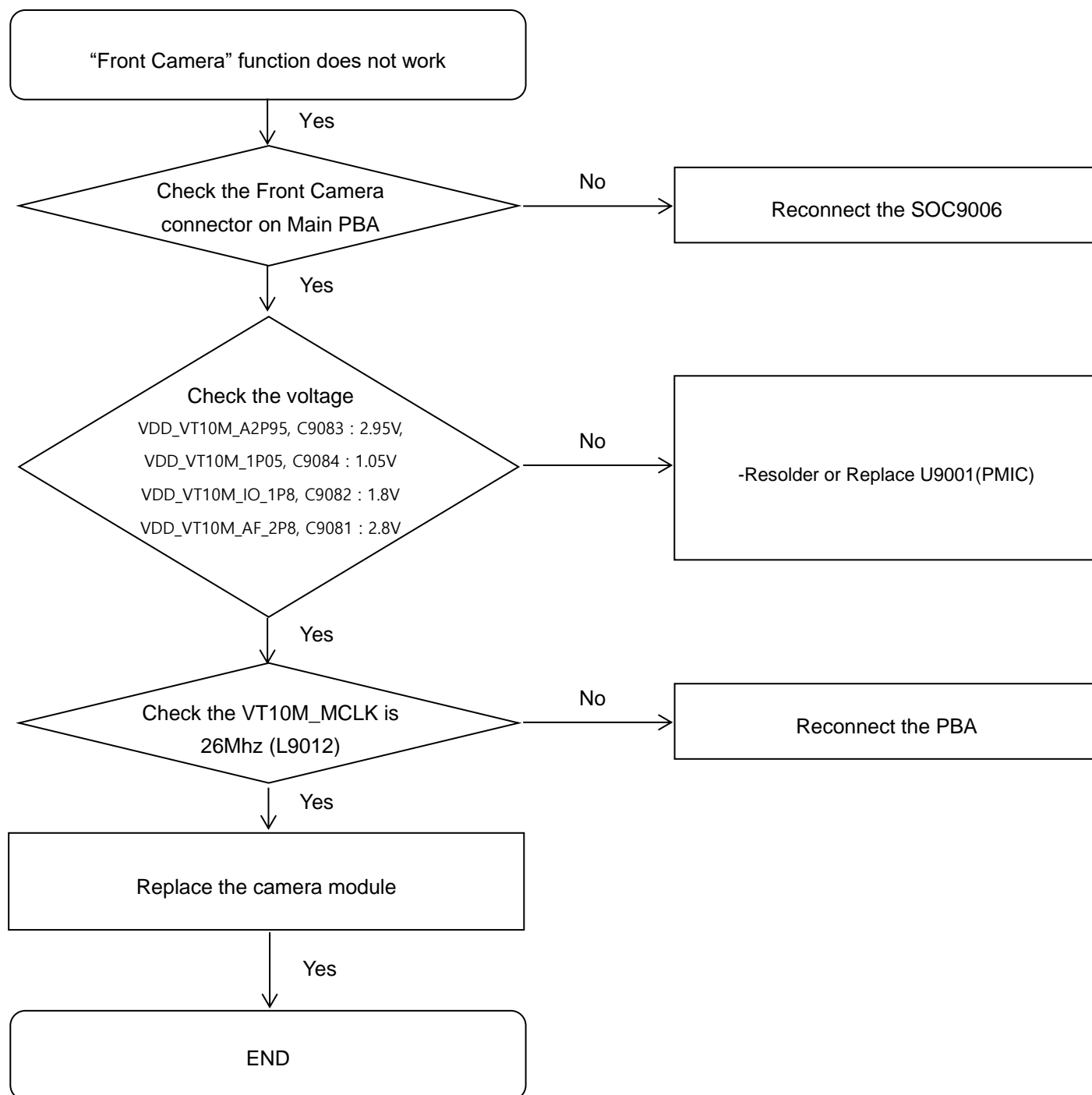


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## 8. Level 3 Repair

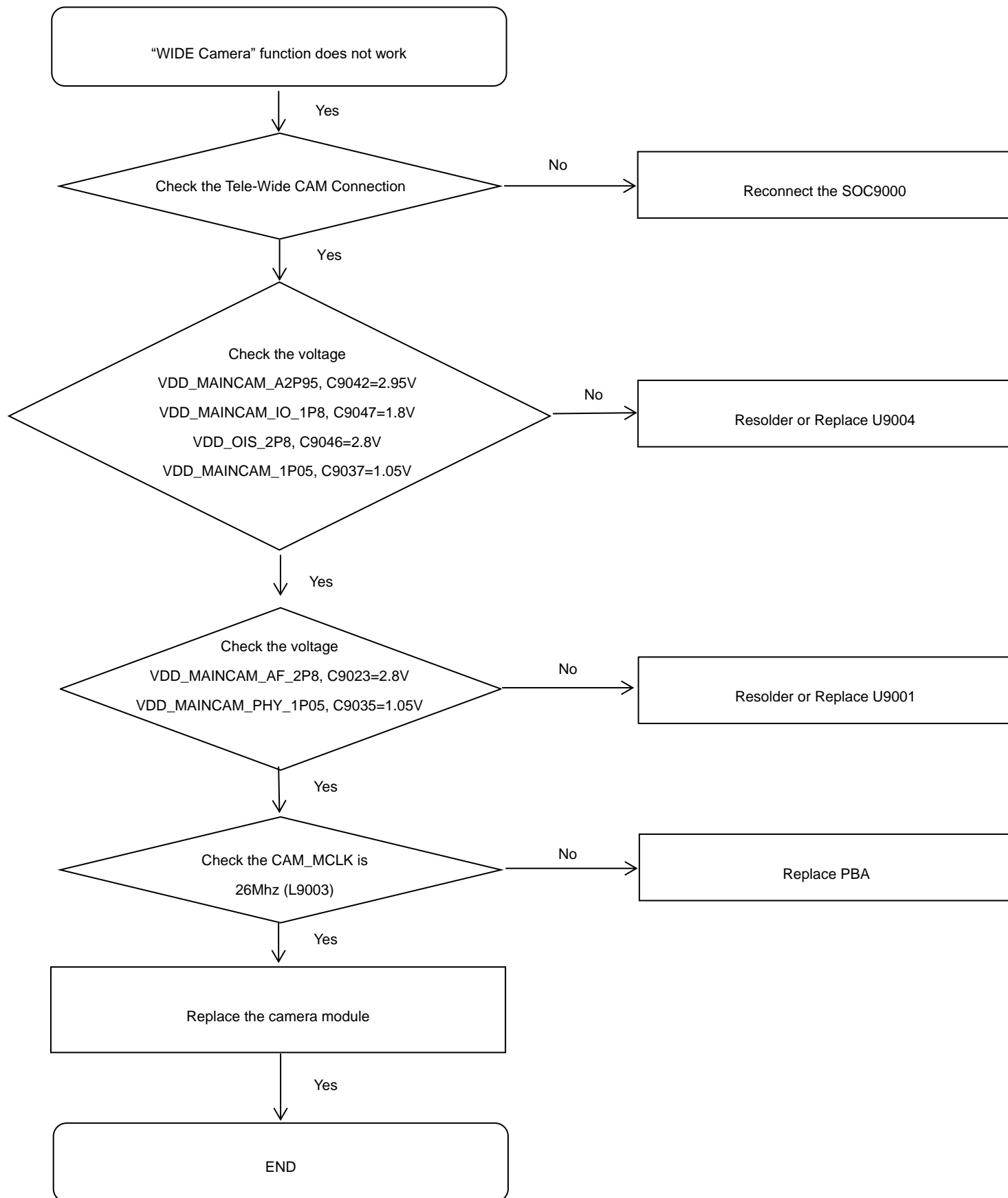
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### 8-4-14. VT CAMERA



## 8. Level 3 Repair

### 8-4-15. WIDE CAMERA

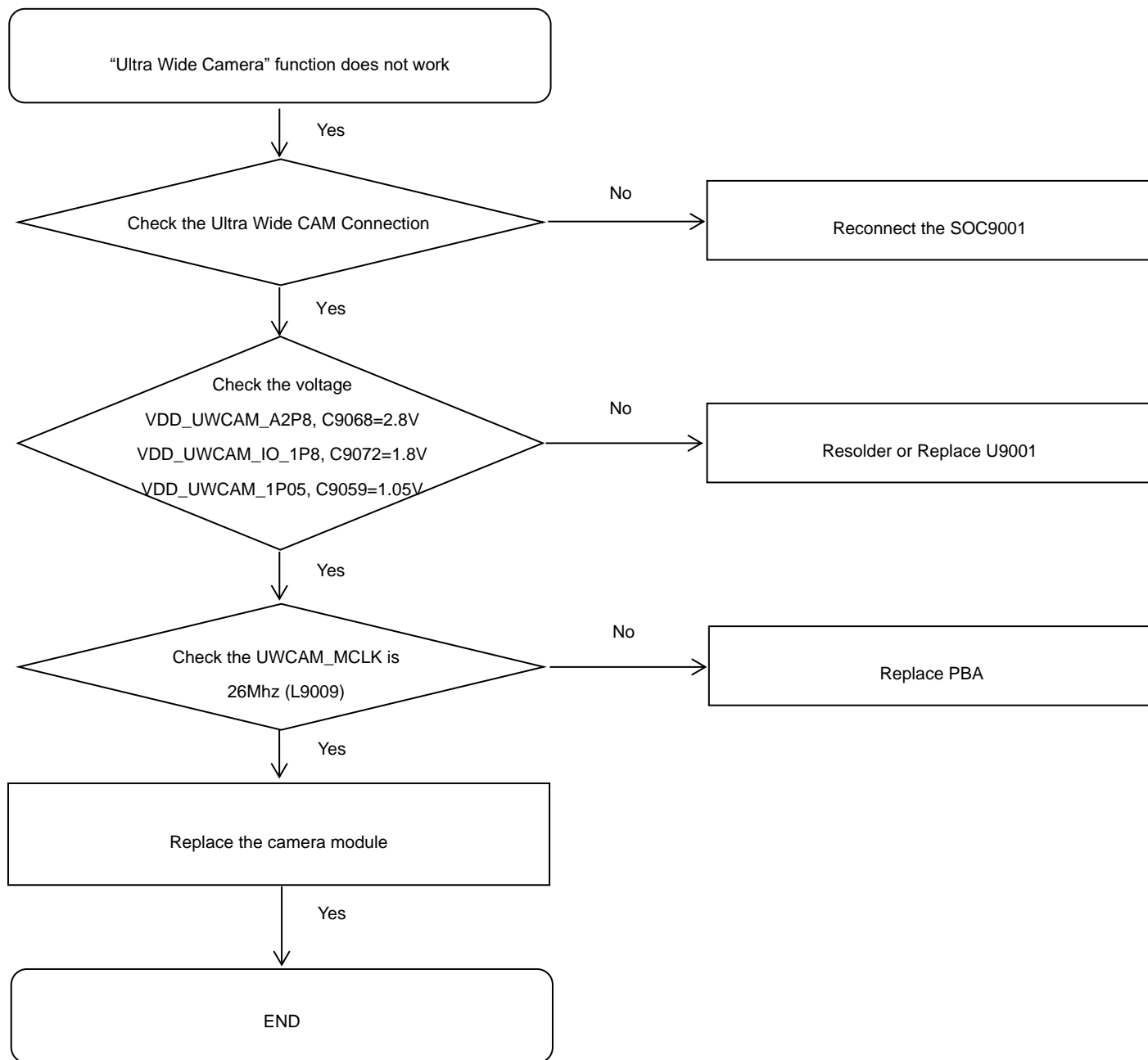


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## 8. Level 3 Repair

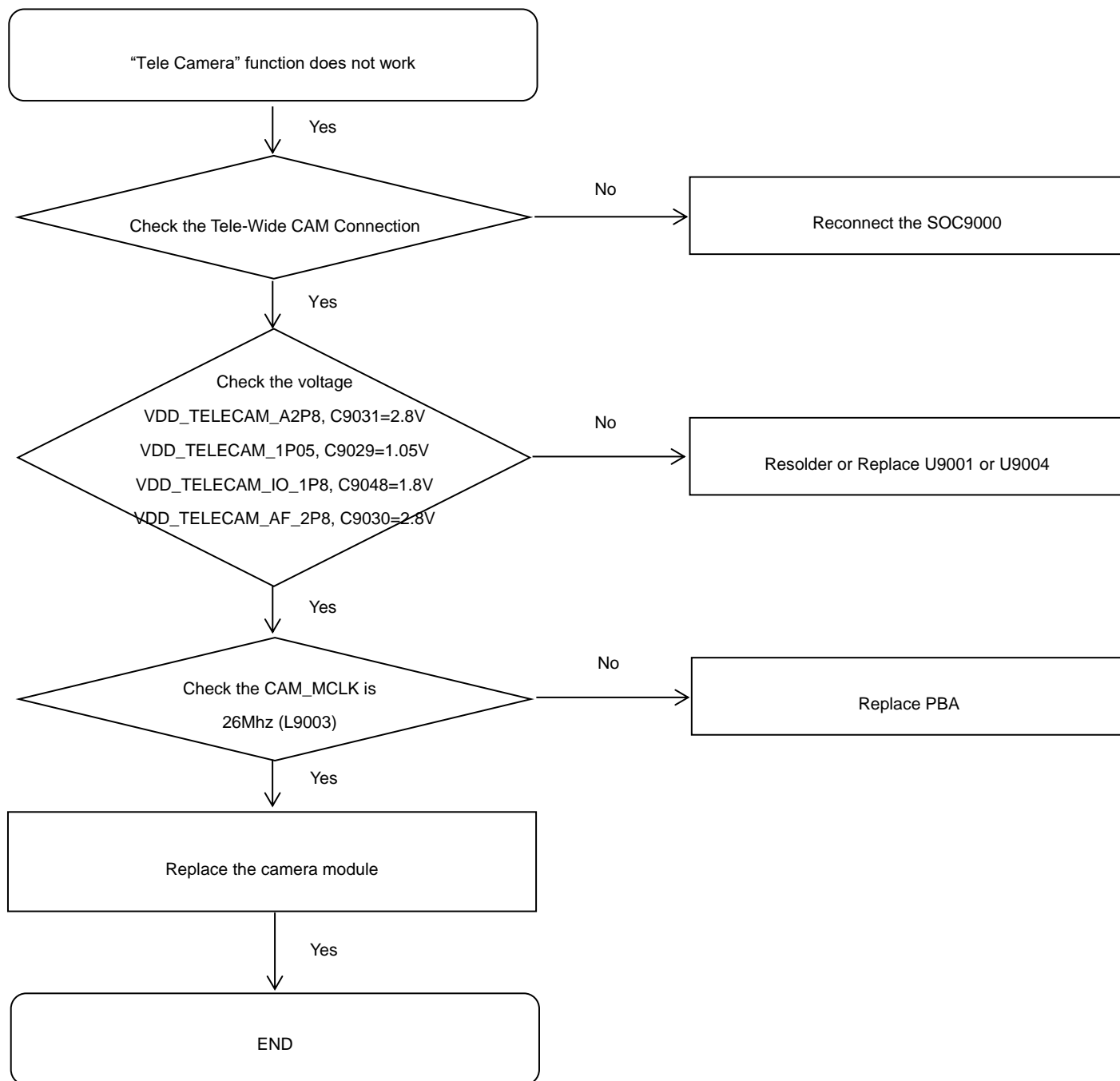
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### 8-4-16. 12M ULTRA WIDE CAMERA



## 8. Level 3 Repair

### 8-4-17. 64M TELE CAMERA

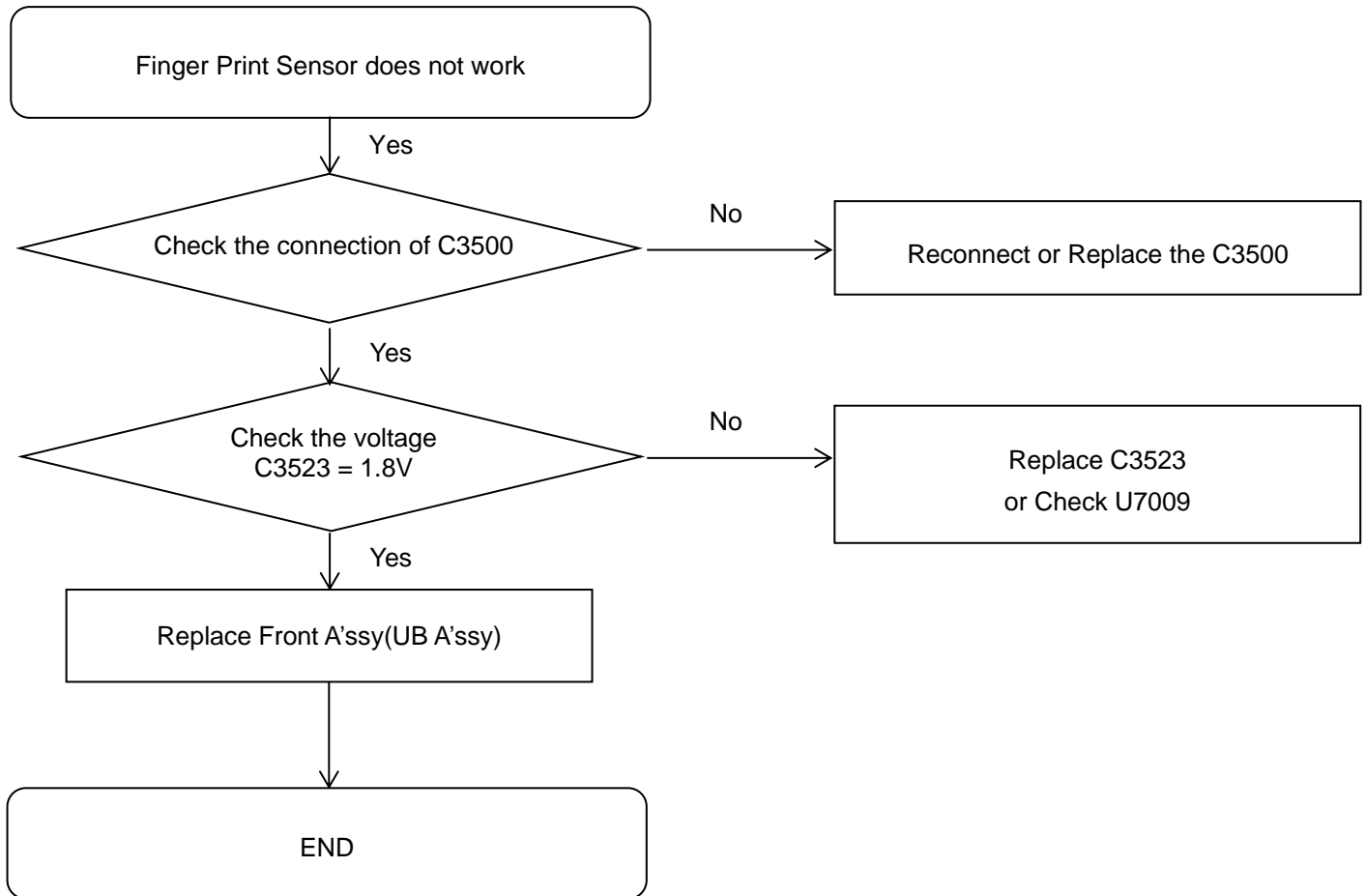


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## 8. Level 3 Repair

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### 8-4-18. Finger Print

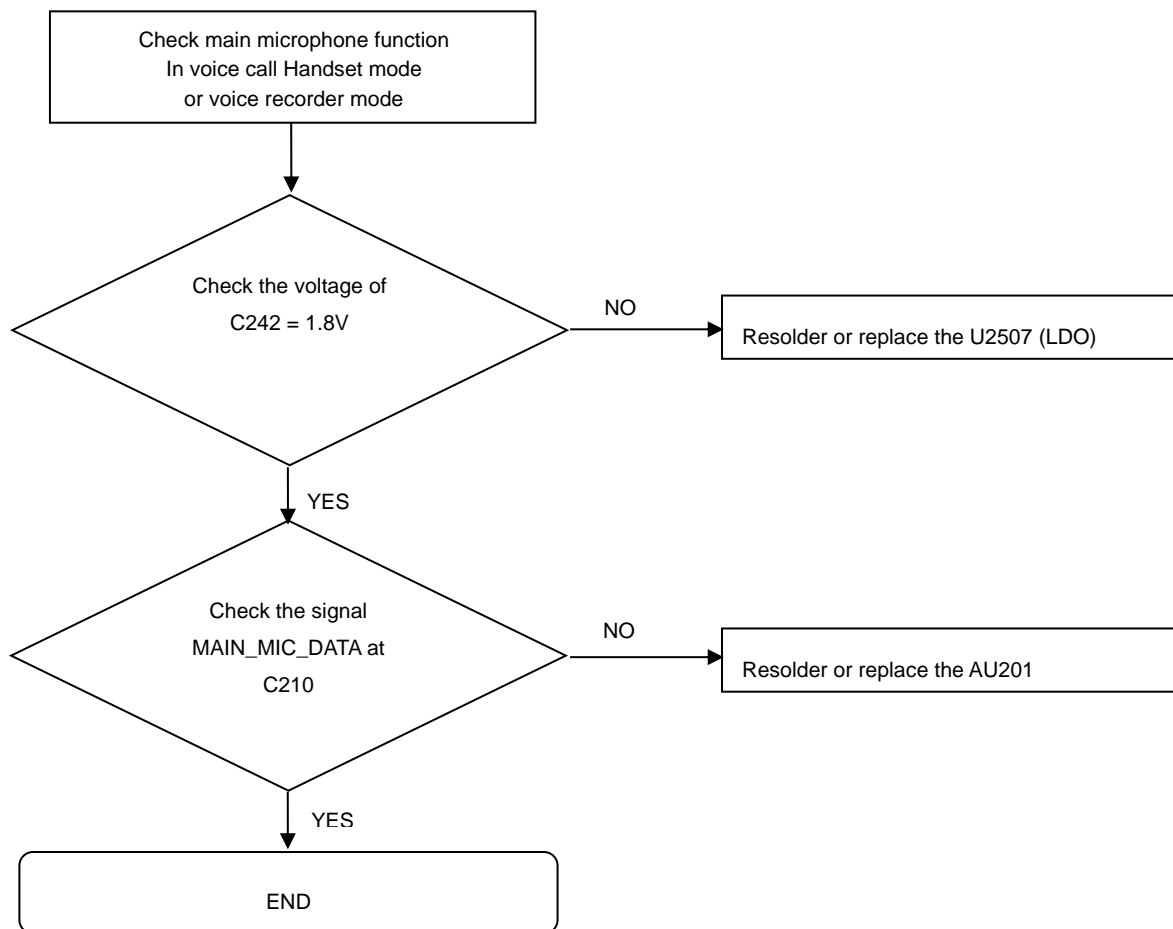


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## 8. Level 3 Repair

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### 8-4-19-1. Main MIC

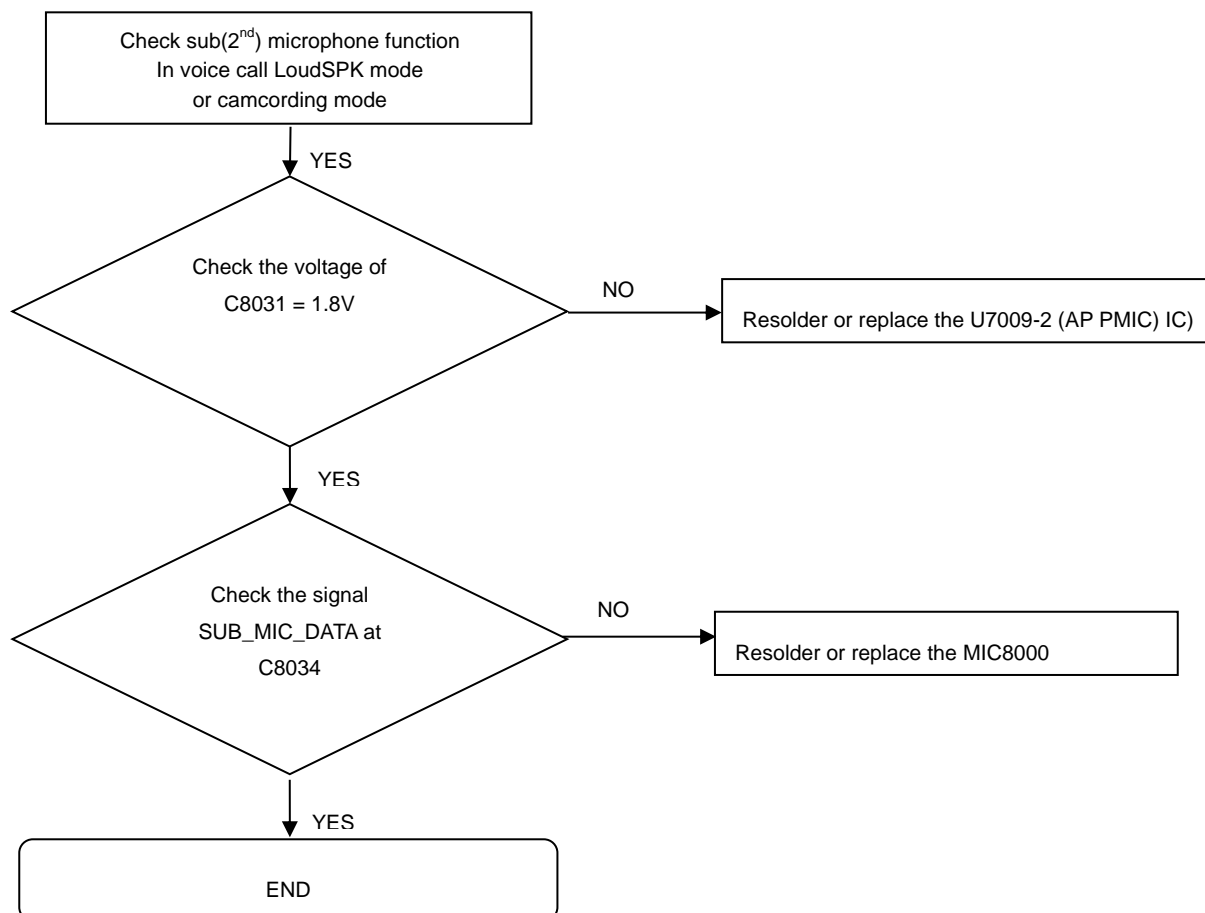


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## 8. Level 3 Repair

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### 8-4-19-2. Sub(2<sup>nd</sup>) MIC



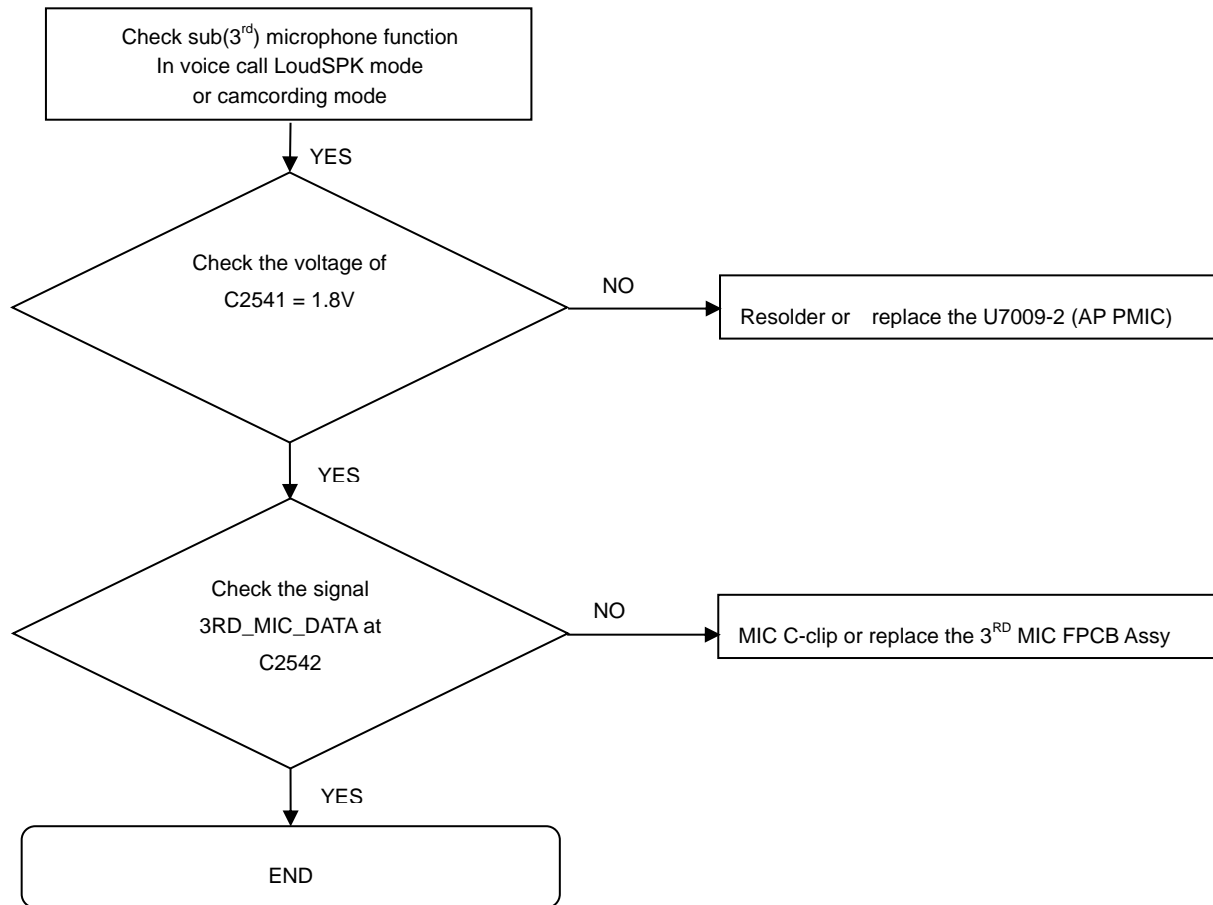


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## 8. Level 3 Repair

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### 8-4-19-3. Sub(3<sup>rd</sup>) MIC

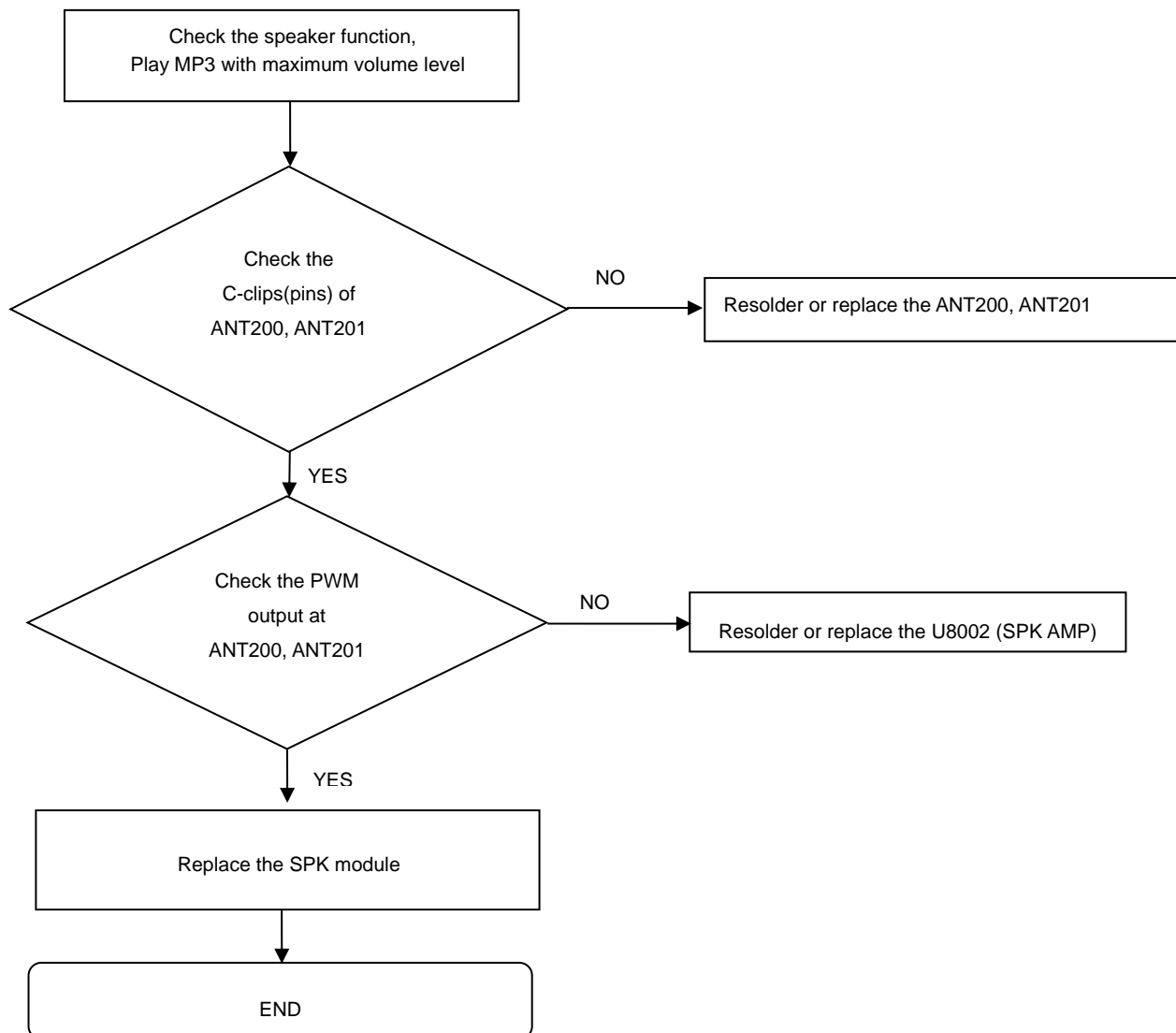


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## 8. Level 3 Repair

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### 8-4-20. Speaker part

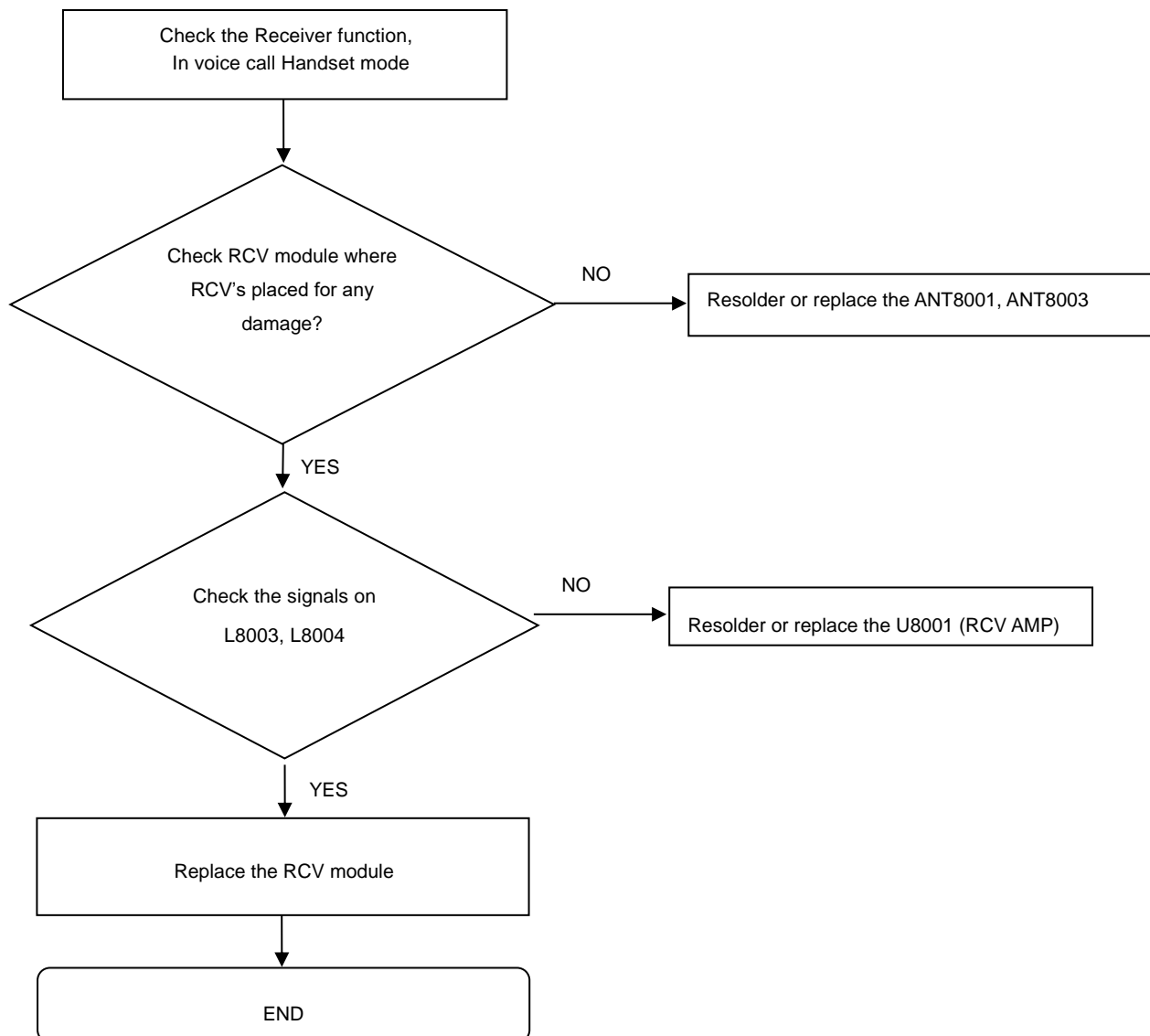


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## 8. Level 3 Repair

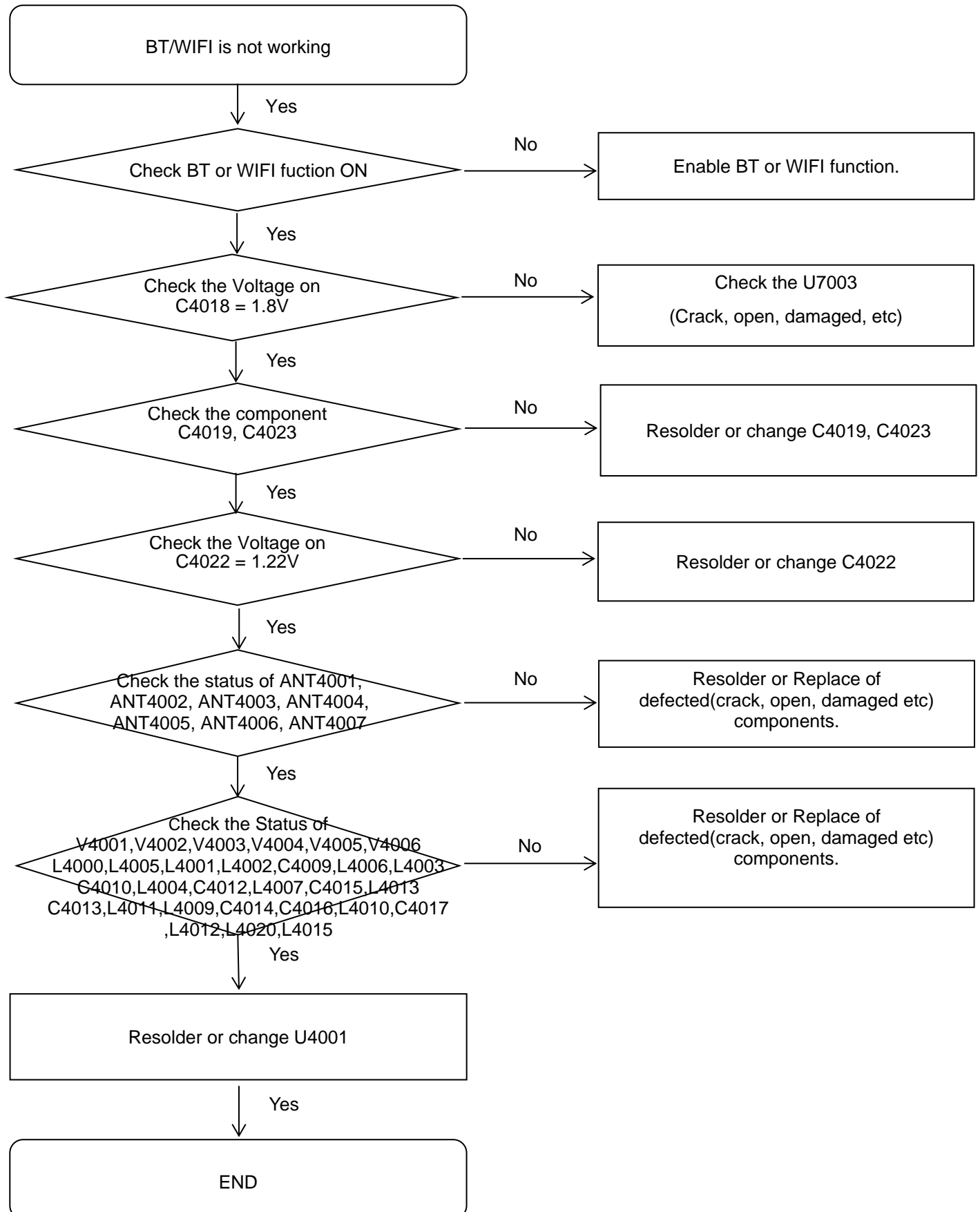
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### 8-4-21. Receiver part



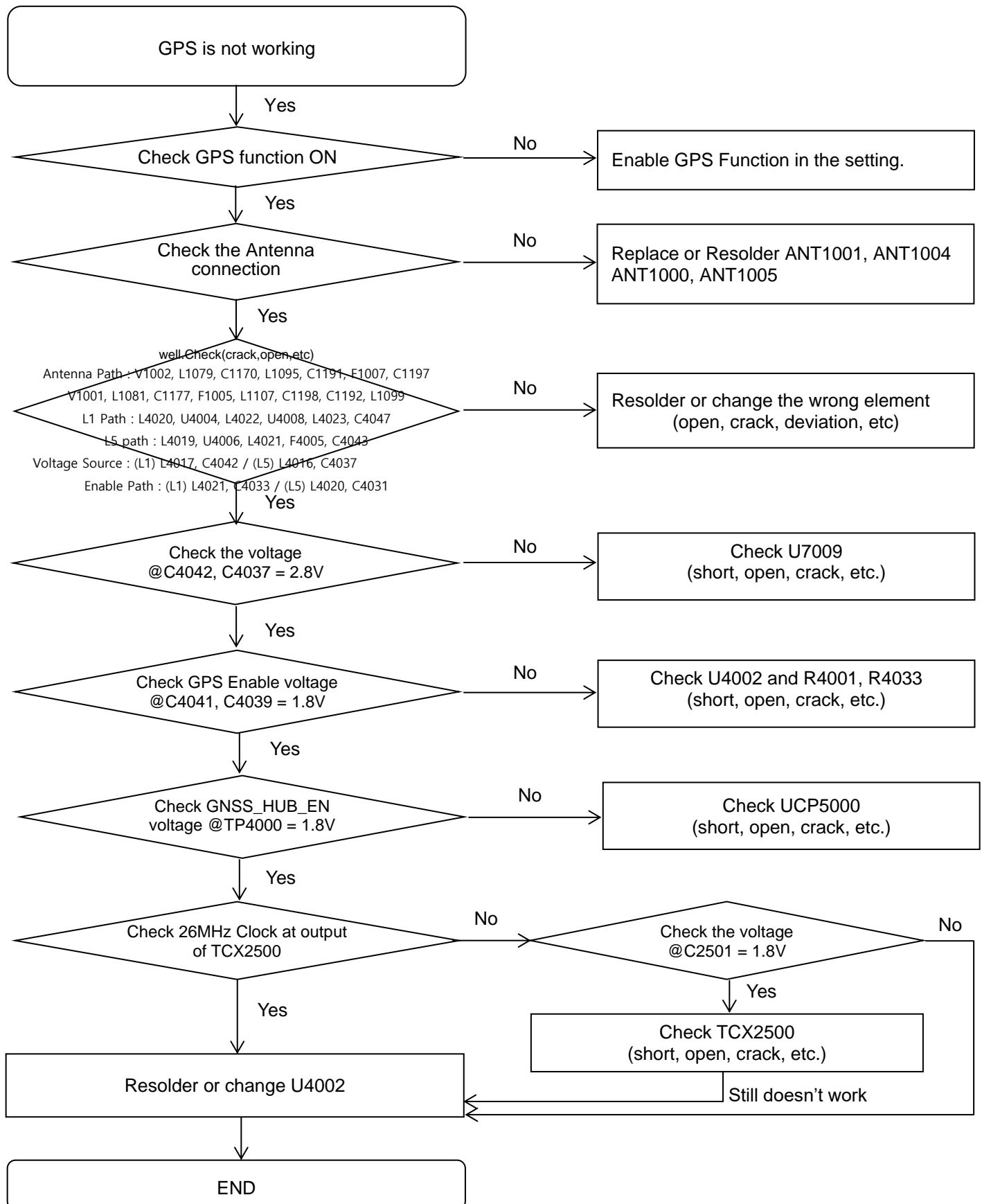
## 8. Level 3 Repair

### 8-4-22. BT/WIFI



## 8. Level 3 Repair

### 8-4-23. GPS

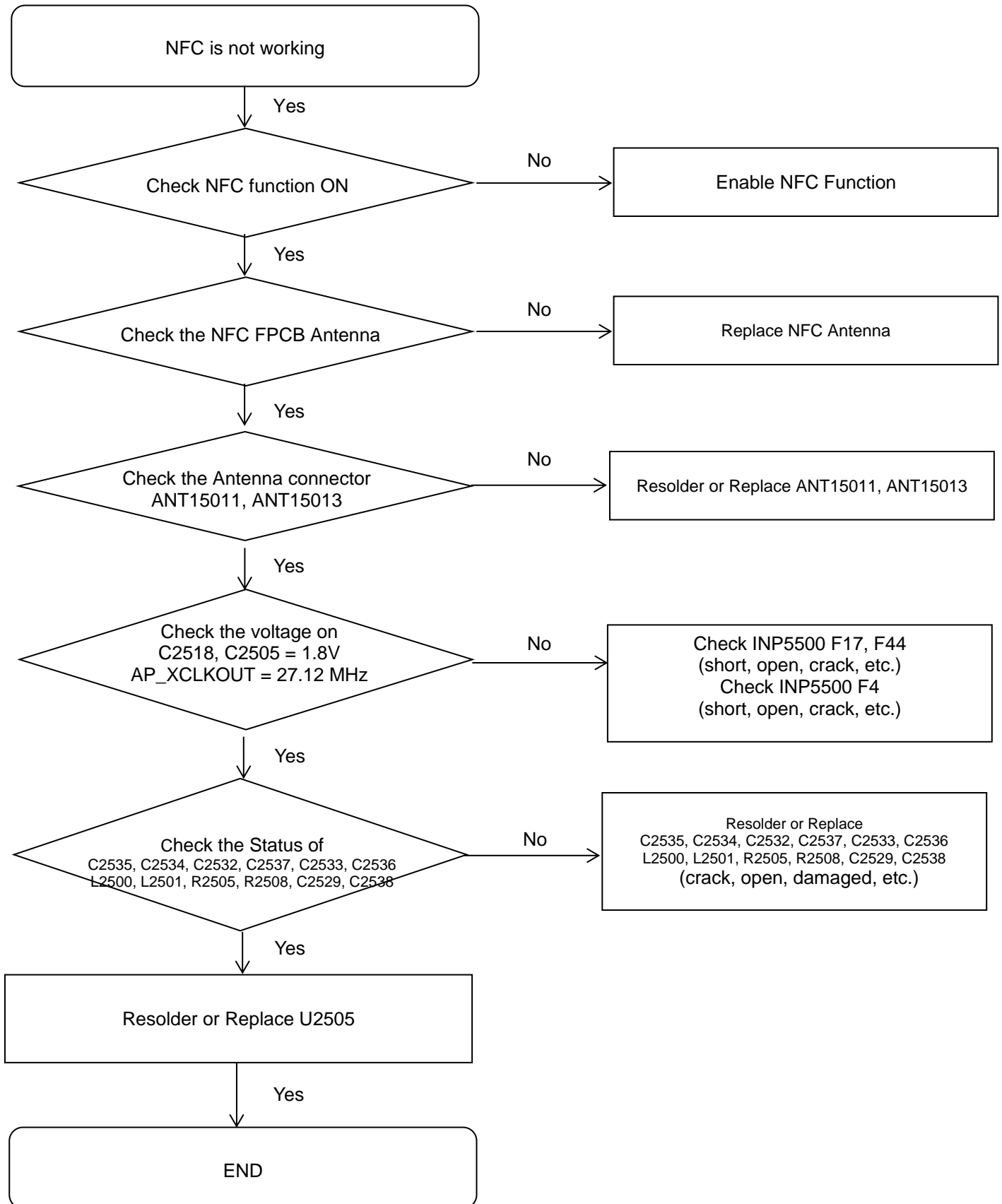


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## 8. Level 3 Repair

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### 8-4-24. NFC

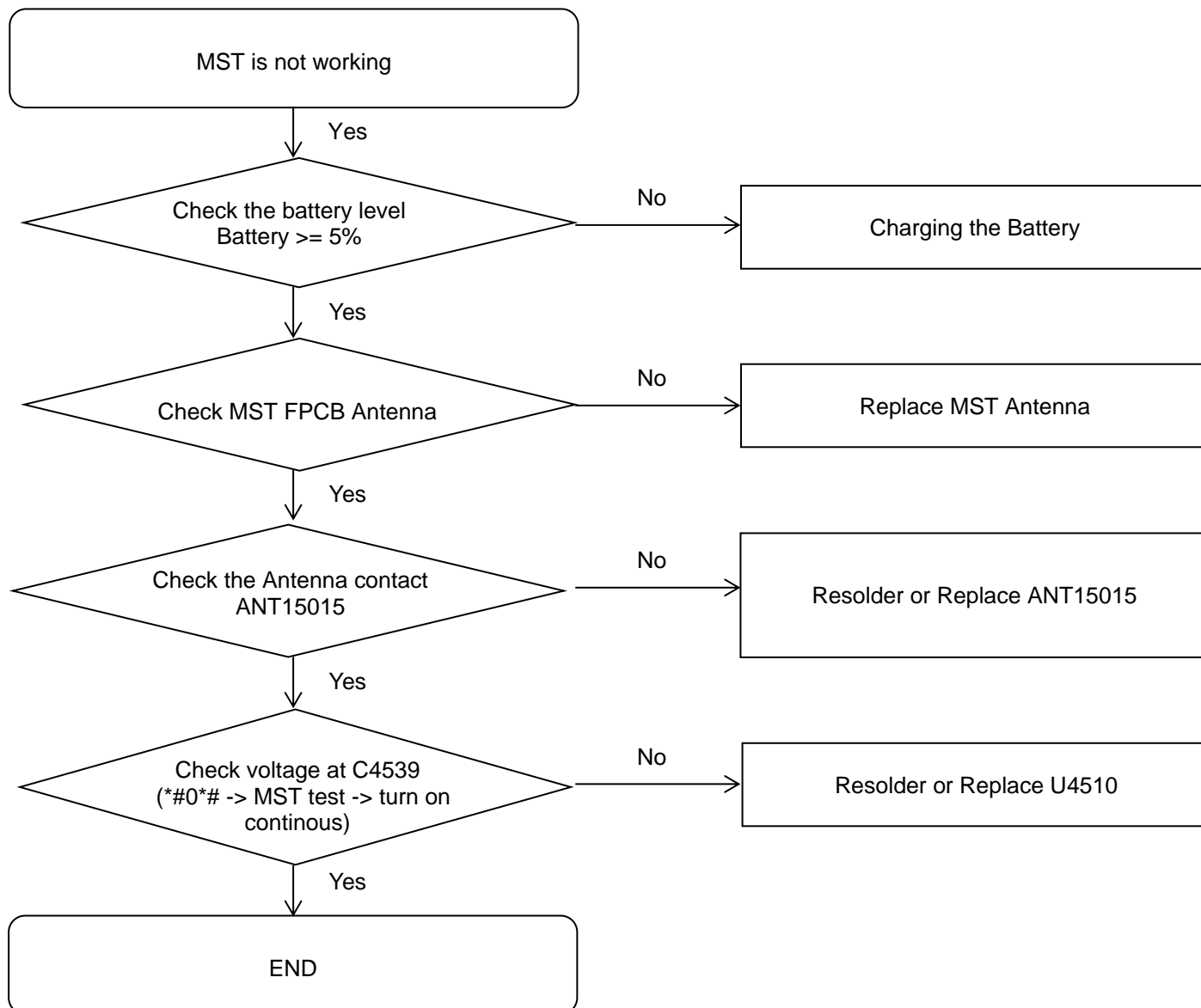


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## 8. Level 3 Repair

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### 8-4-25. MST



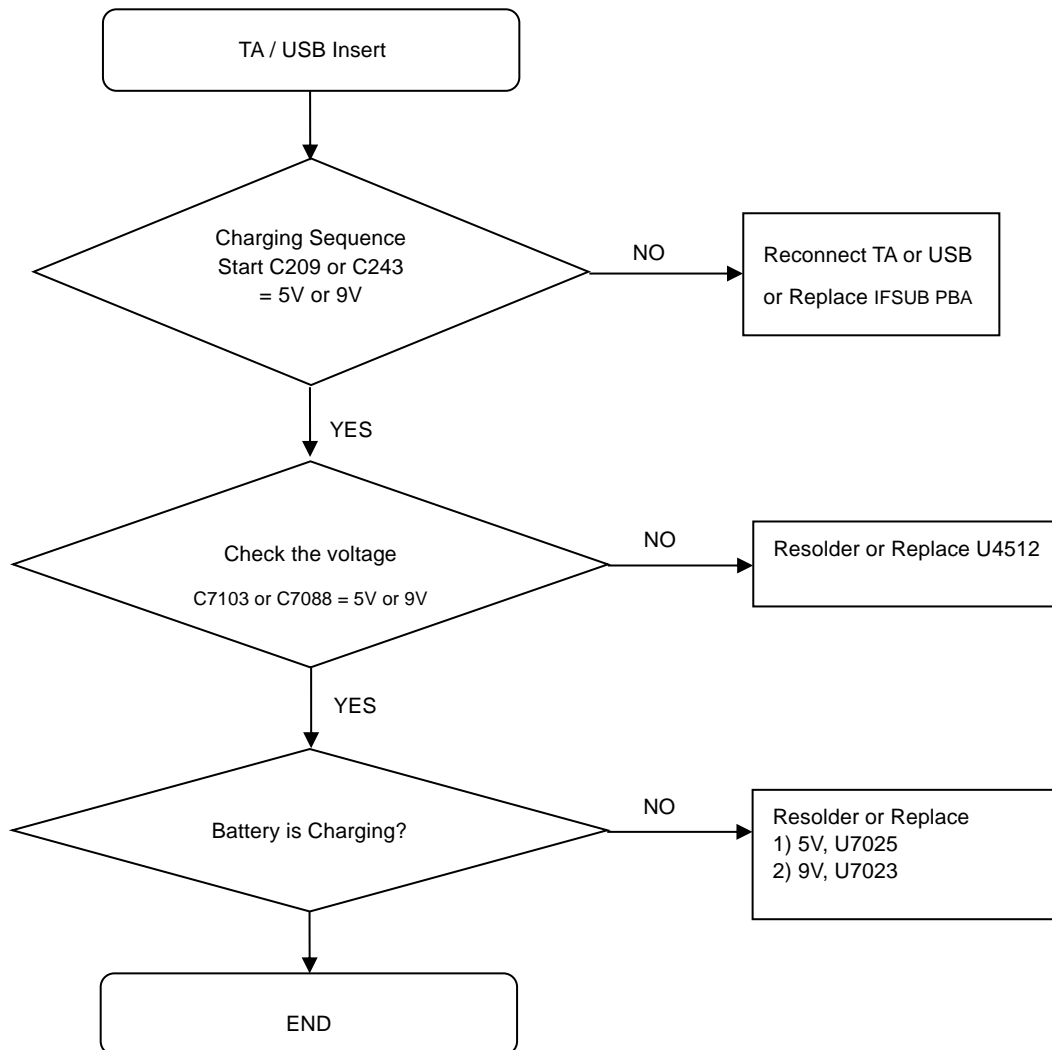


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## 8. Level 3 Repair

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

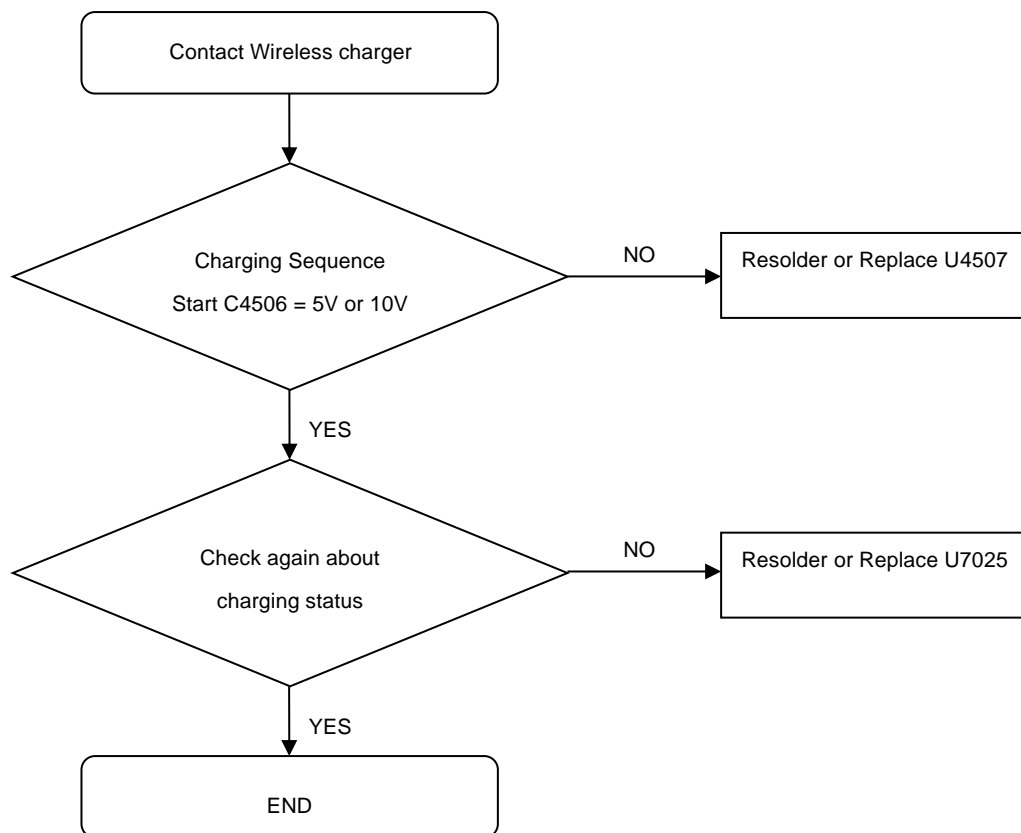


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## 8. Level 3 Repair

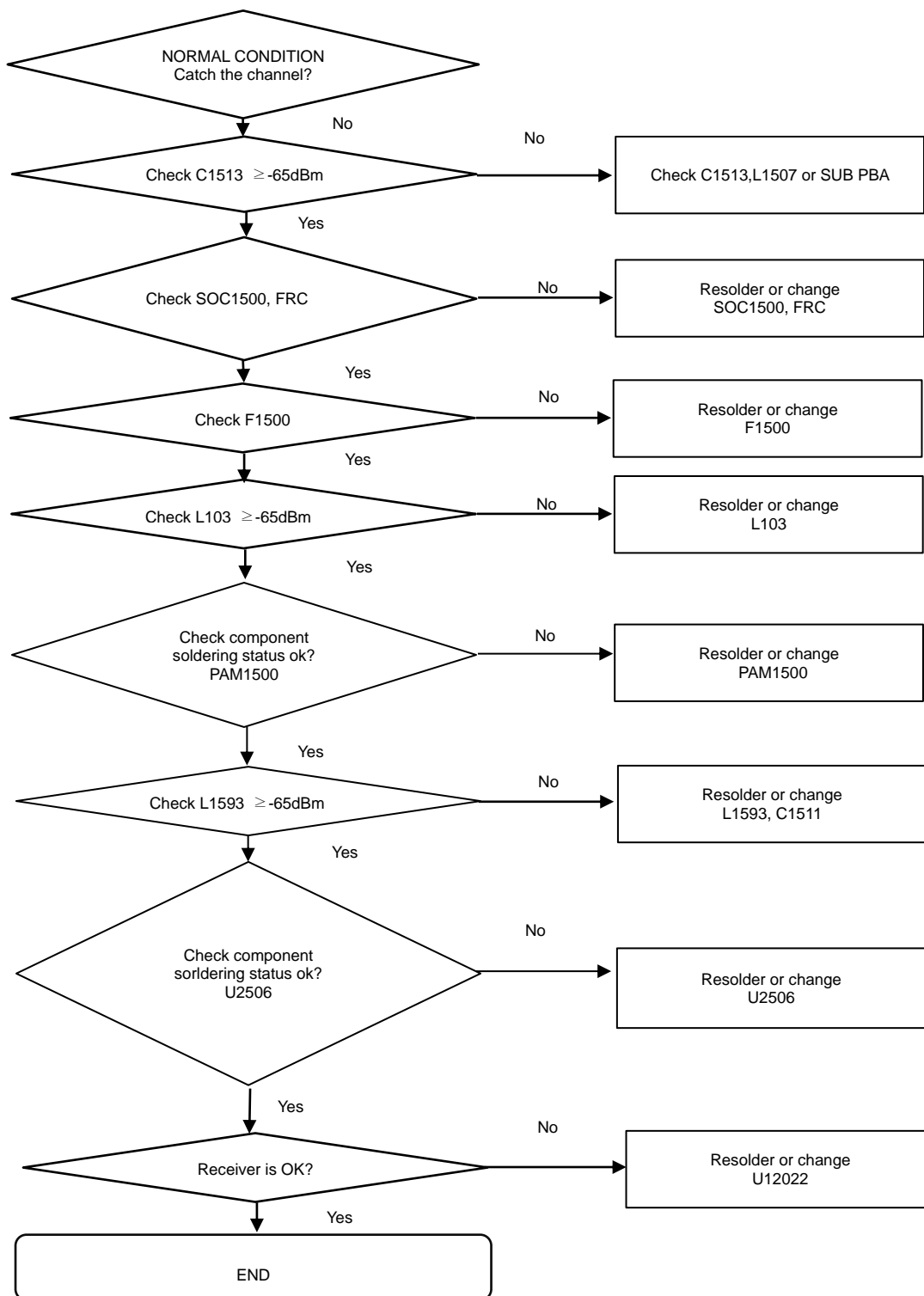
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### 8-4-27. Charging Part Wireless Charging (Normal/Fast)



## 8. Level 3 Repair

### 8-4-28. GSM 850/900, WCDMA B5/8, LTE B5/8/12/13/14/17/18/19/20/26/28 RX

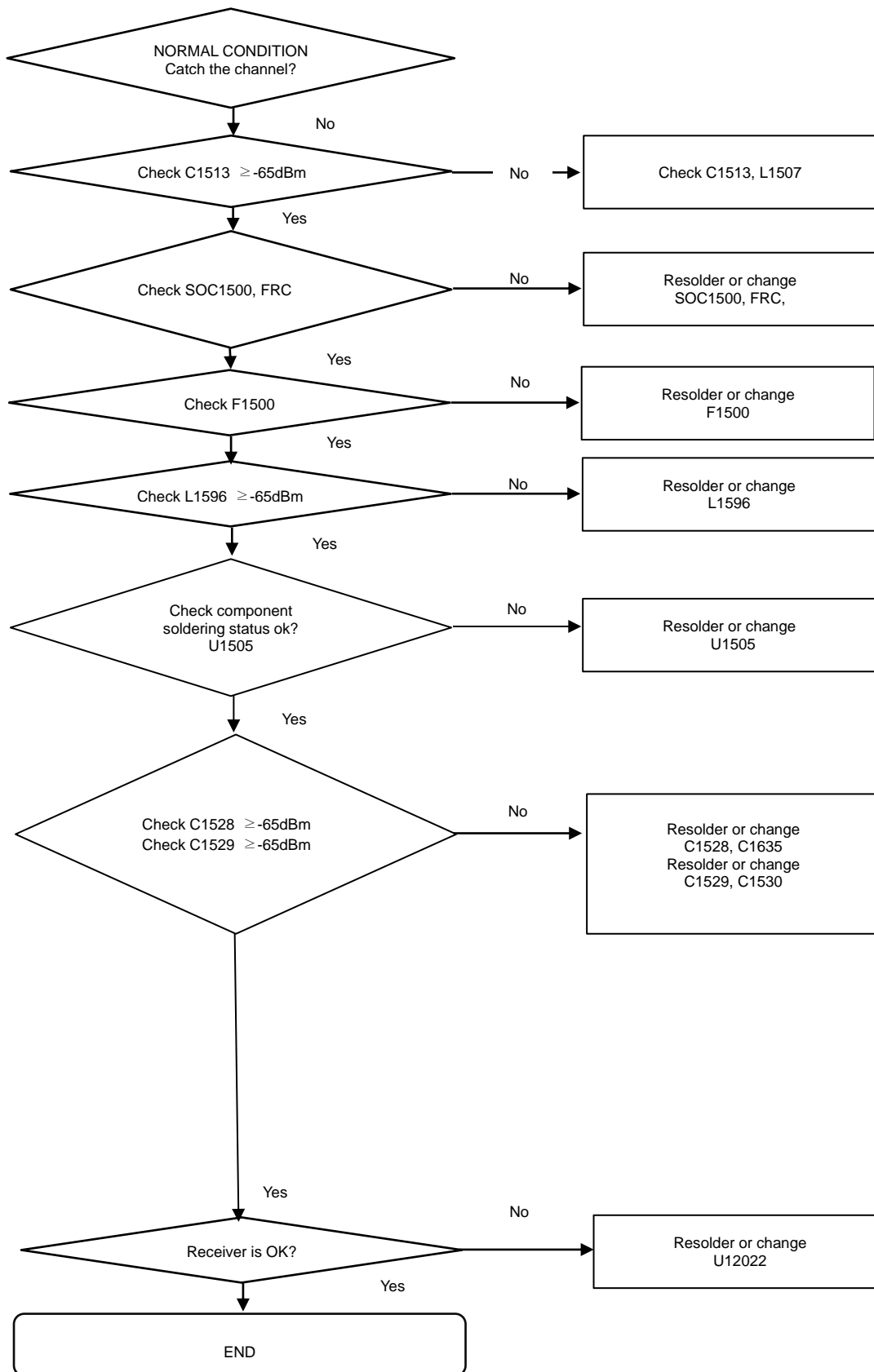


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## 8. Level 3 Repair

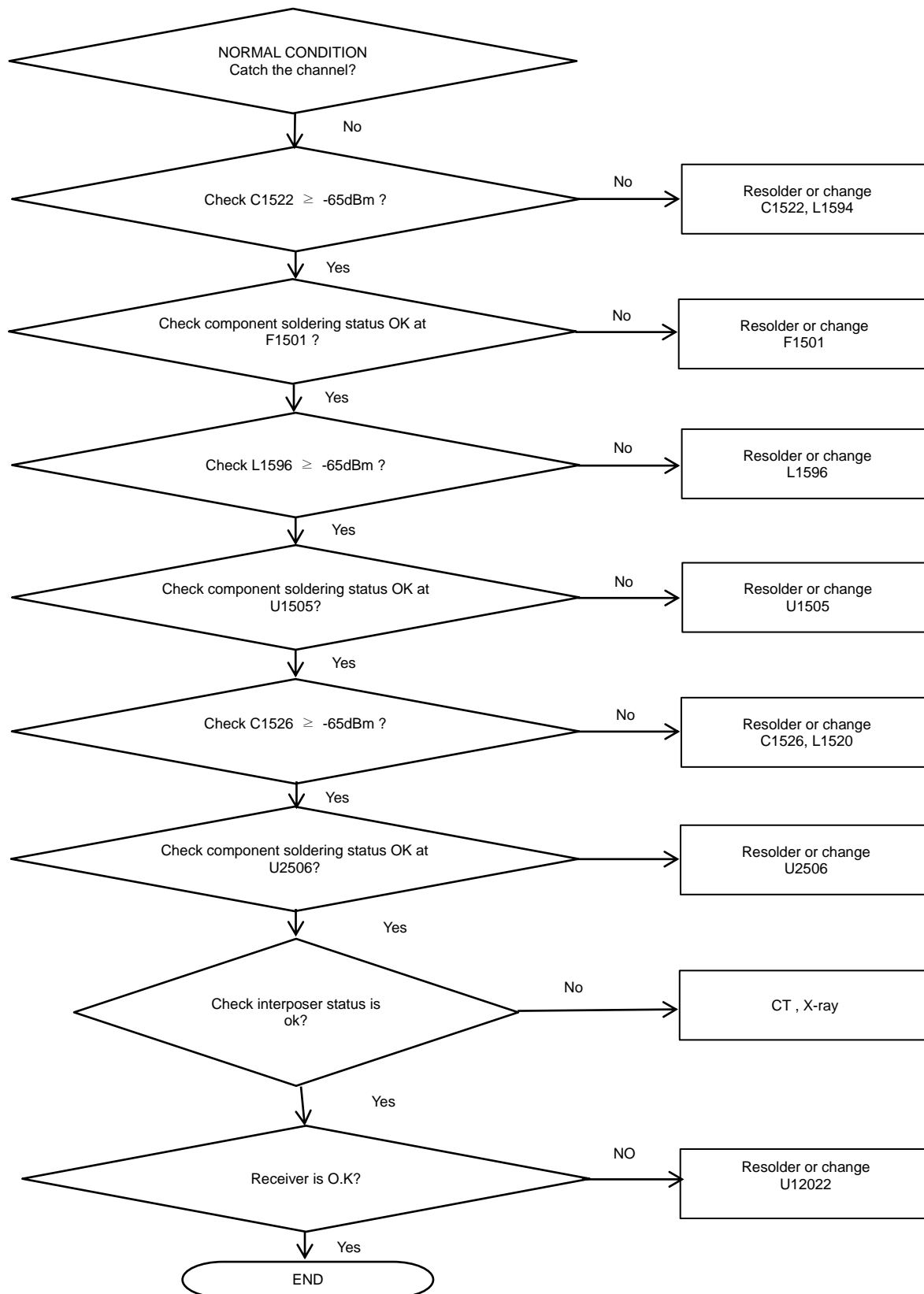
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### 8-4-29.GSM 1800/1900, WCDMA B1/2/4, TDSCDMA B34/39, LTE B1/2/3/4/25/39/66 RX



## 8. Level 3 Repair

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

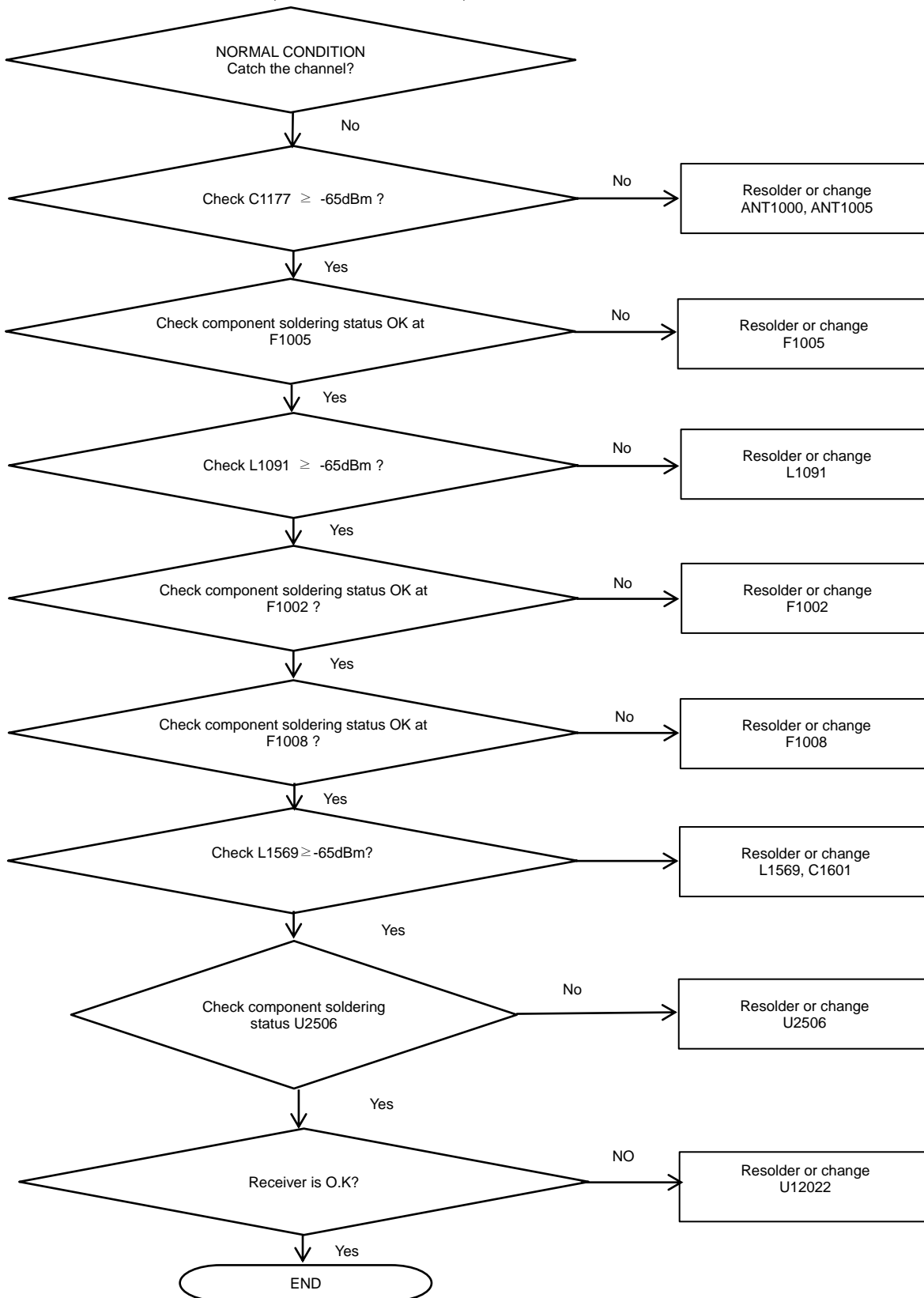


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## 8. Level 3 Repair

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### 8-4-31. GSM 850/900, WCDMA B5/8, LTE B5/8/12/13/17/18/19/20/26/28 DRX

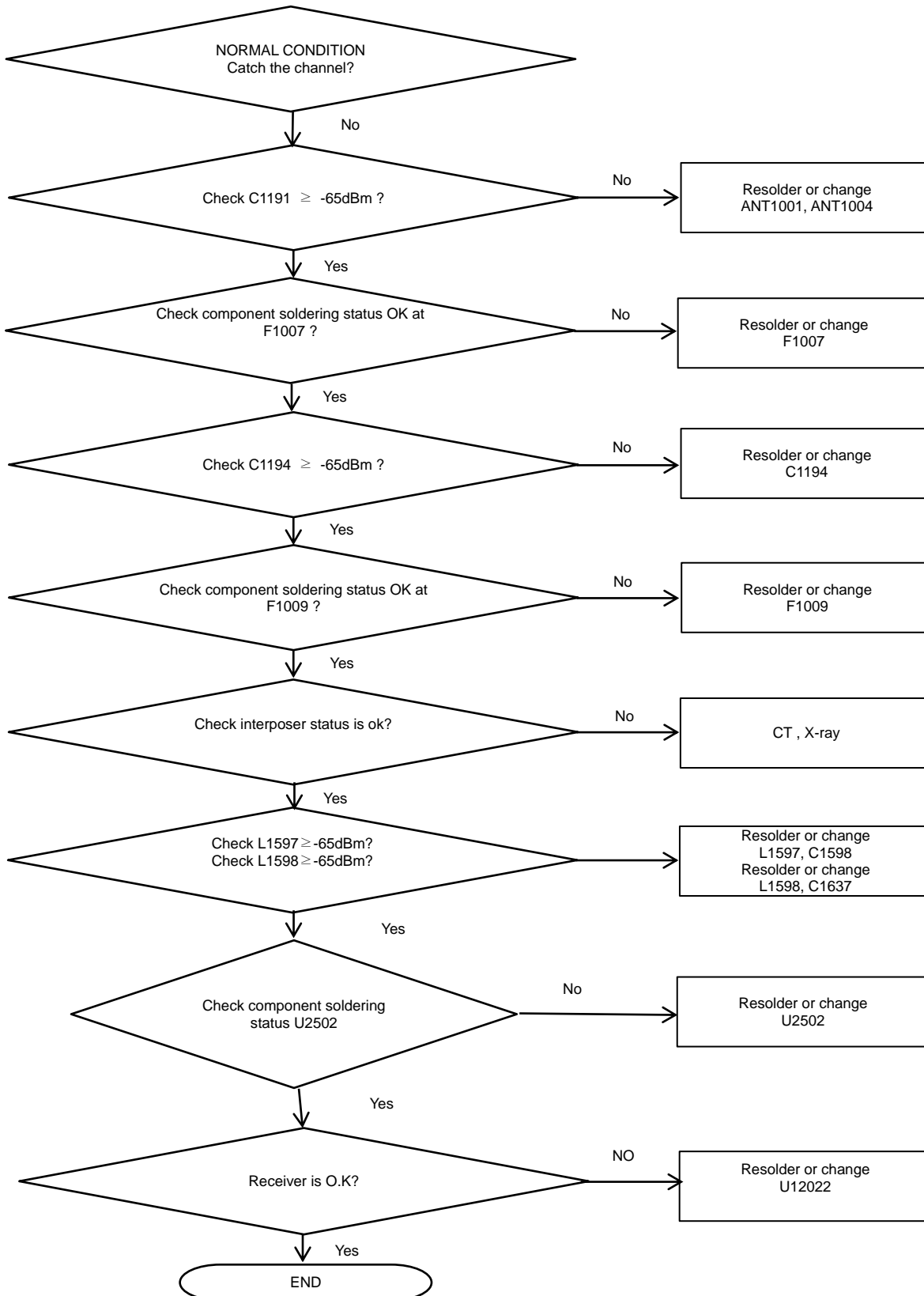


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## 8. Level 3 Repair

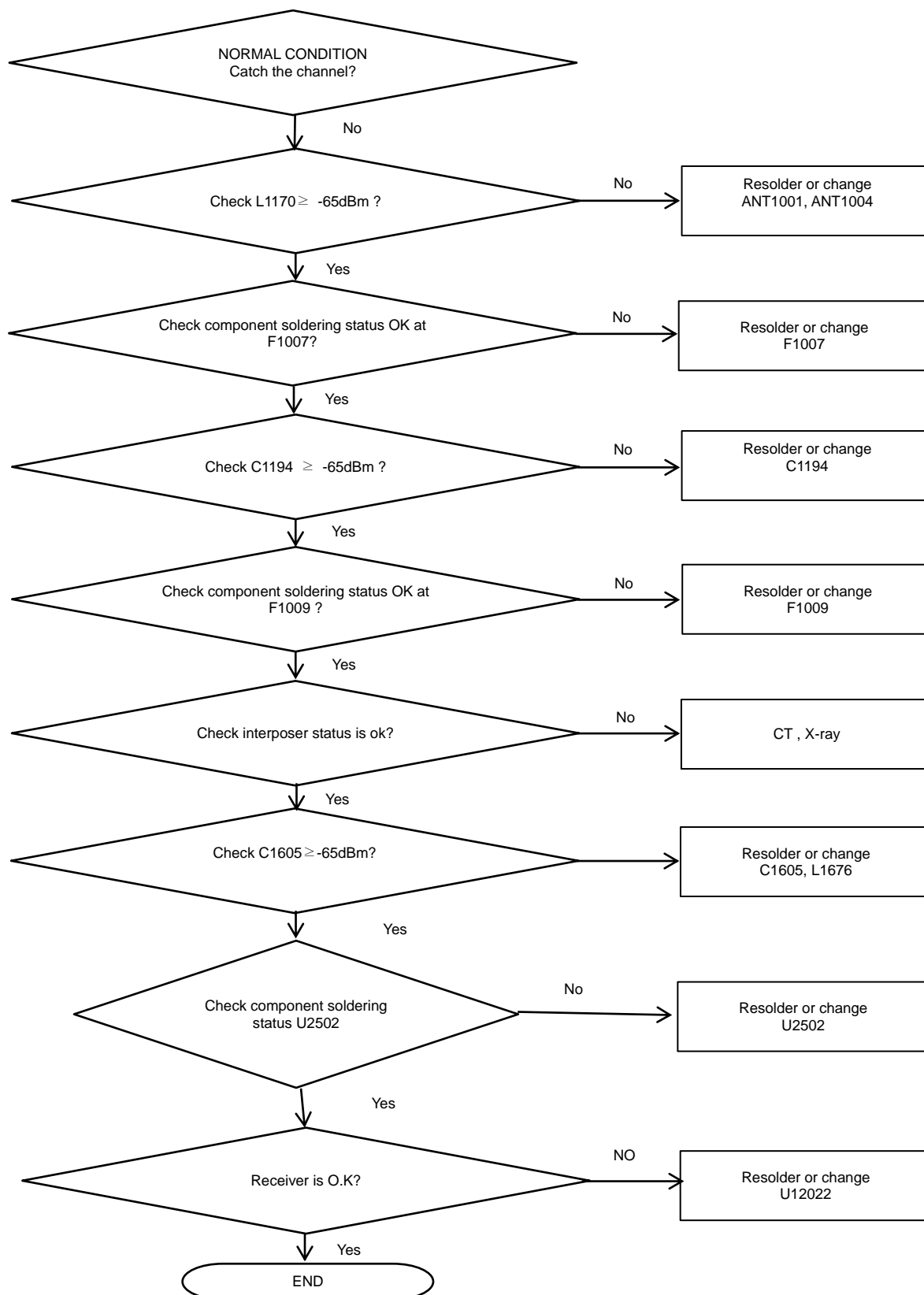
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### 8-4-32. GSM1800/1900, WCDMA 1/2/4, LTE B1/2/3/4/25/32/66 DRX



## 8. Level 3 Repair

### 8-3-33. LTE 7/38/40/41 DRX



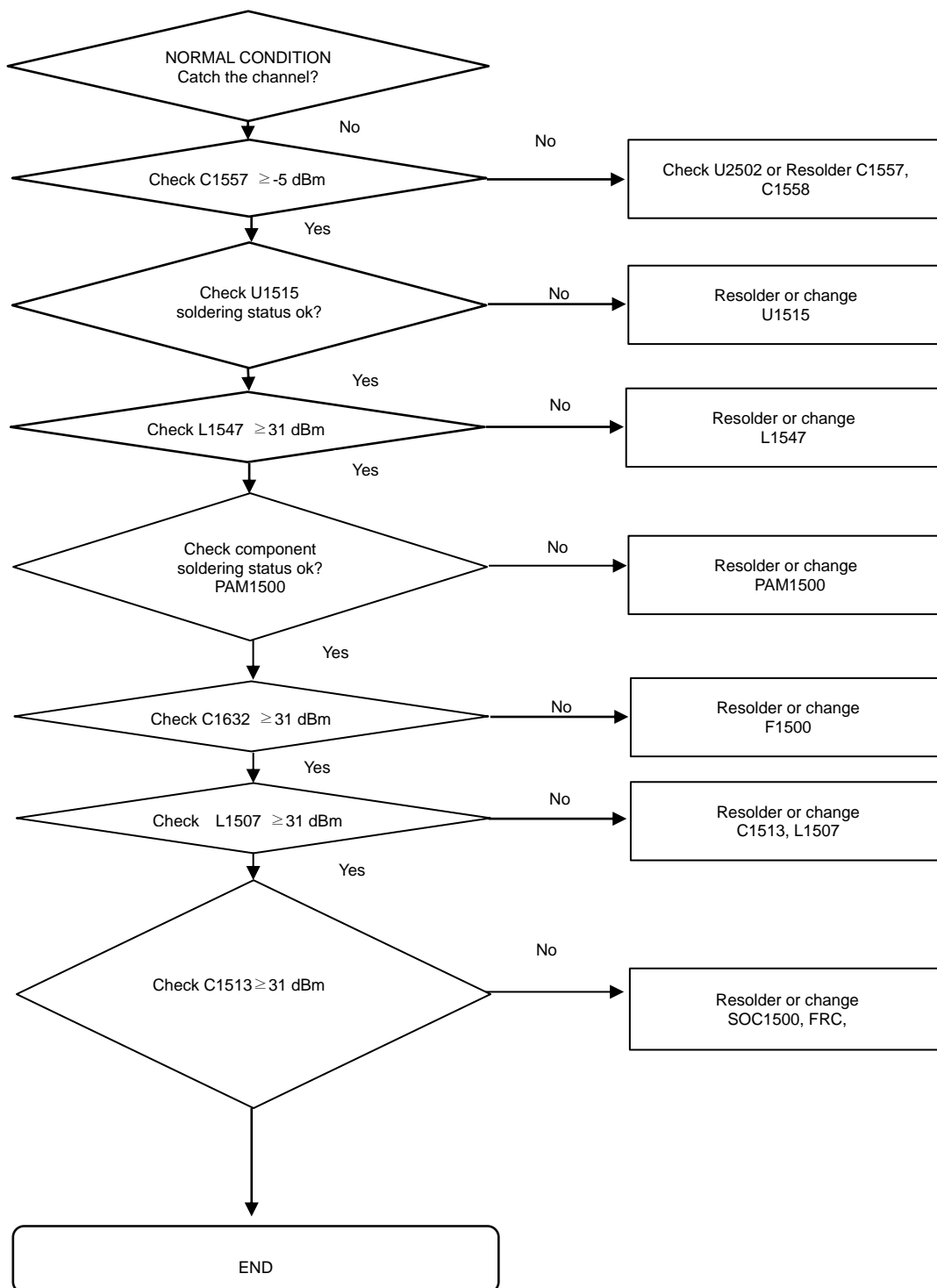


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## 8. Level 3 Repair

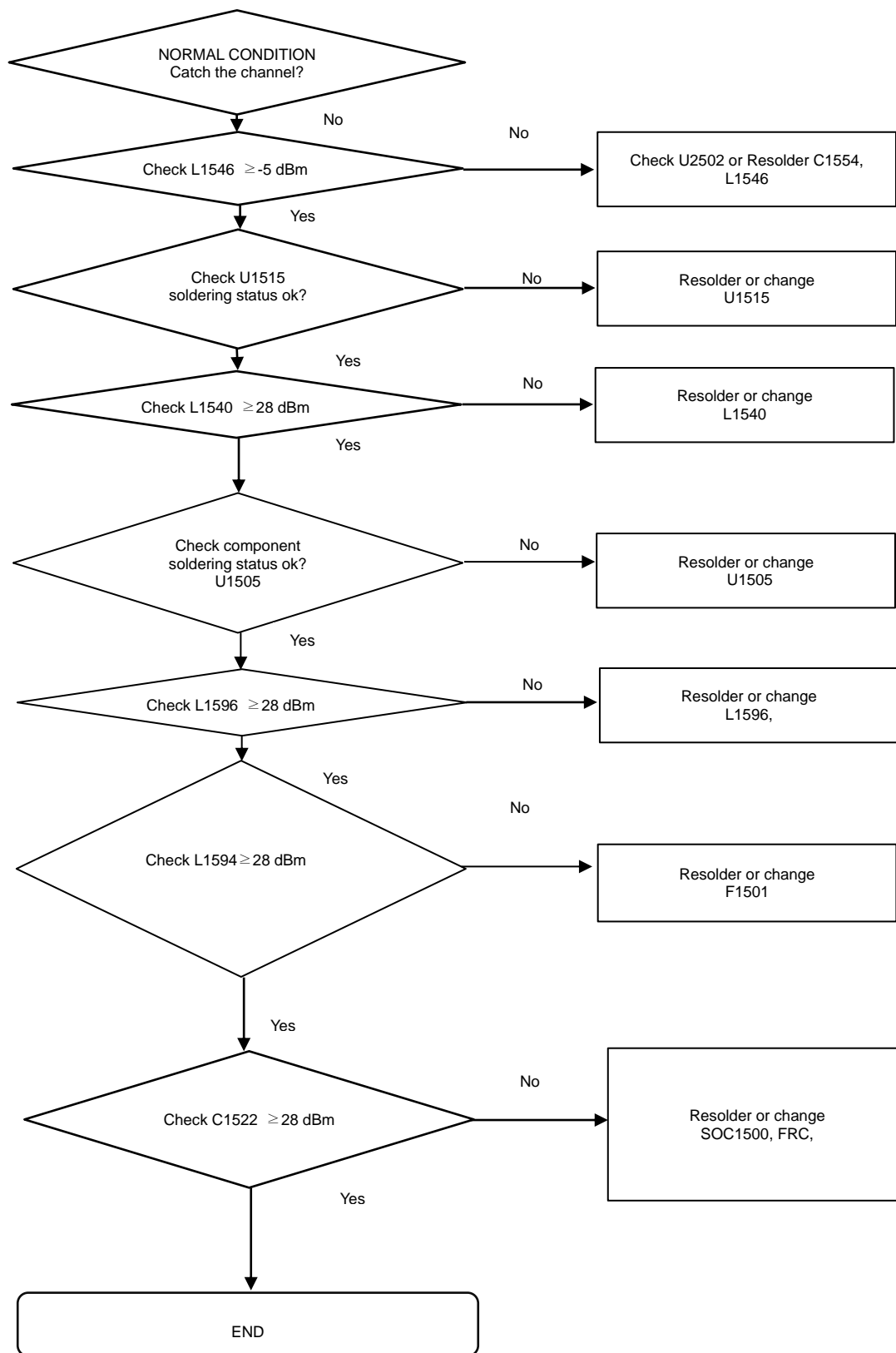
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### 8-4-34. GSM 850/900 TX



## 8. Level 3 Repair

### 8-4-35. GSM 1800/1900 TX

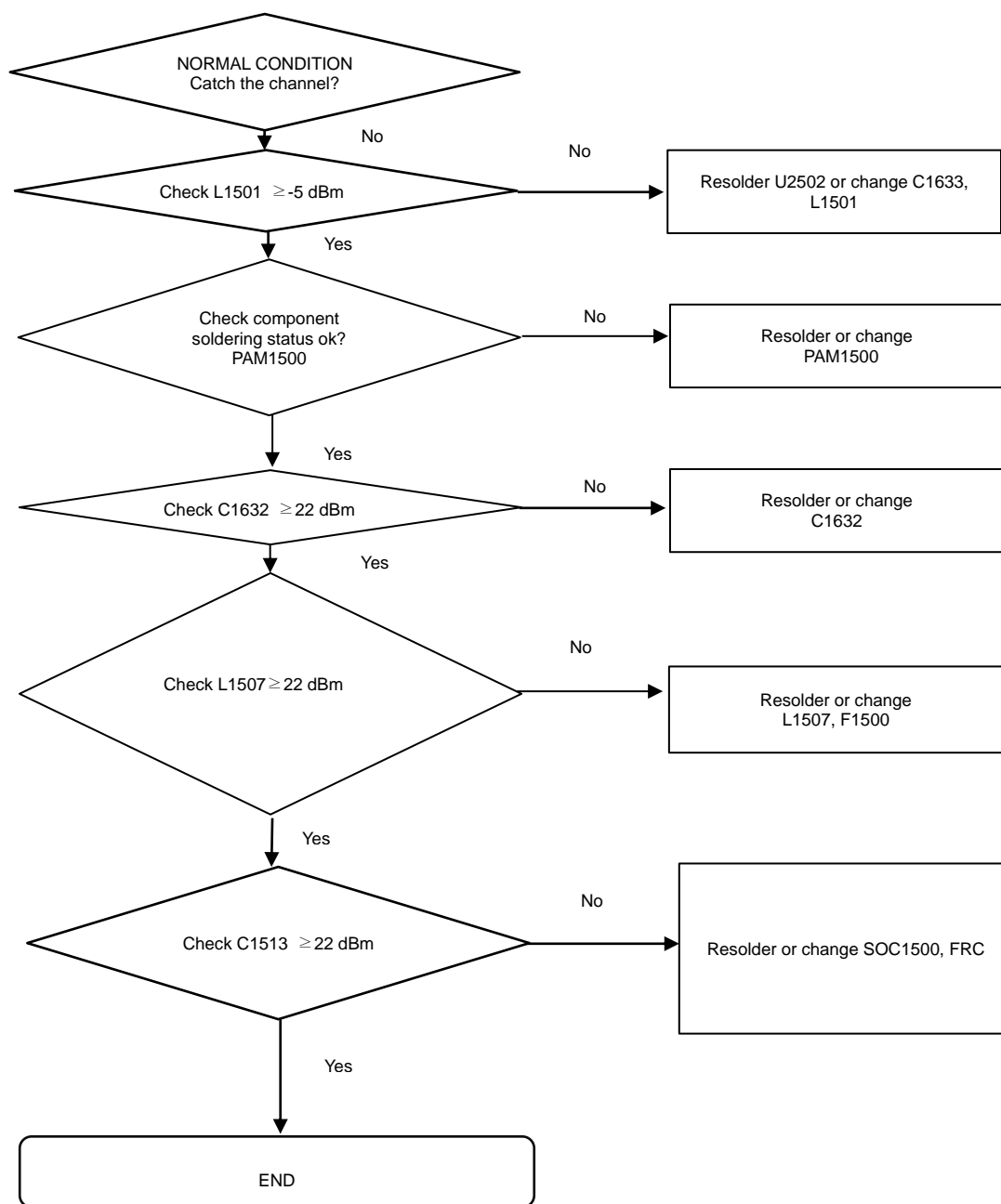


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## 8. Level 3 Repair

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### 8-4-36. WCDMA B5/8, LTE B5/8/12/13/17/18/19/20/26/28 TX

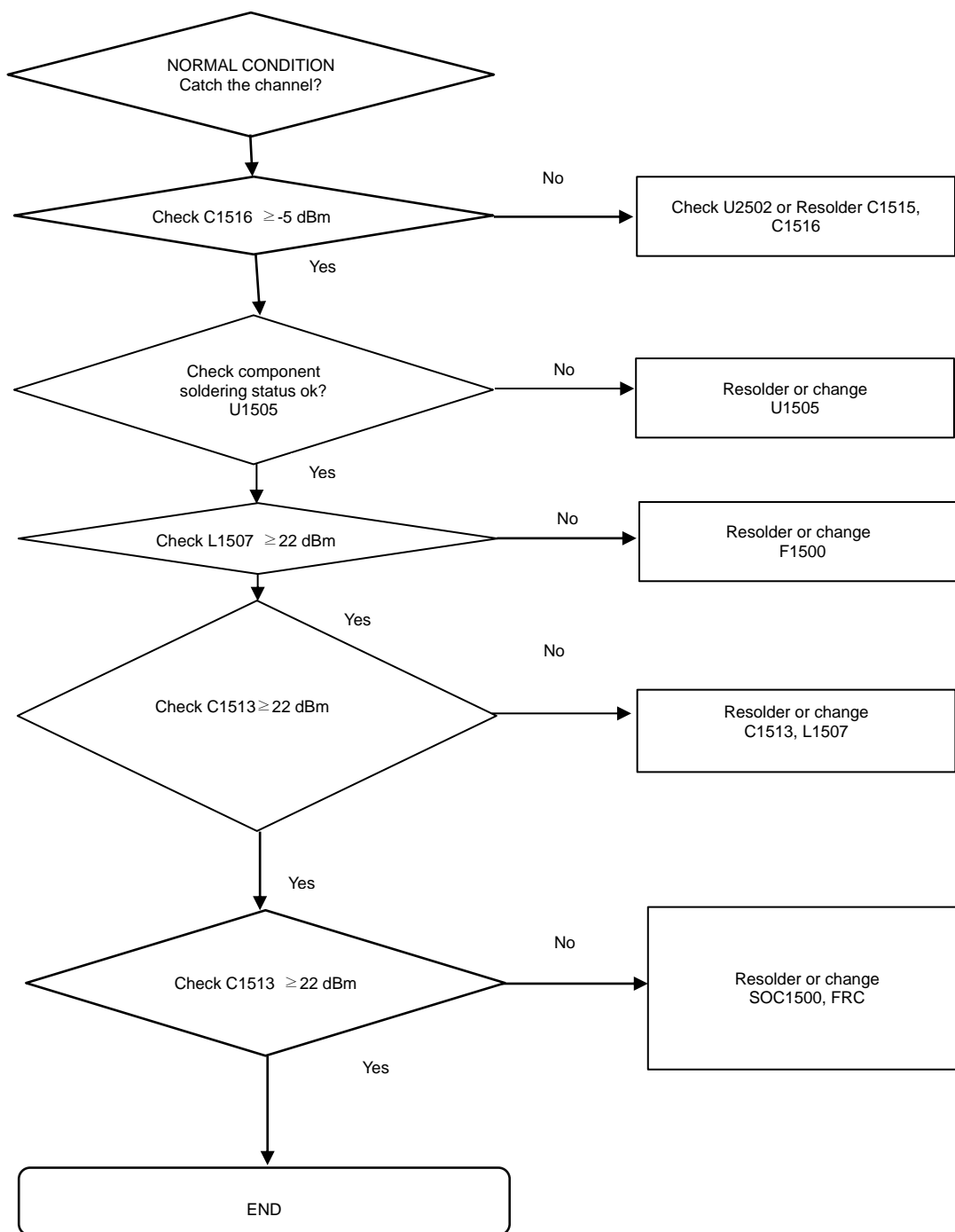


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## 8. Level 3 Repair

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### 8-4-37. WCDMA B1/2/4, TDSCDMA B34/39, LTE B1/2/3/4/25/66 TX

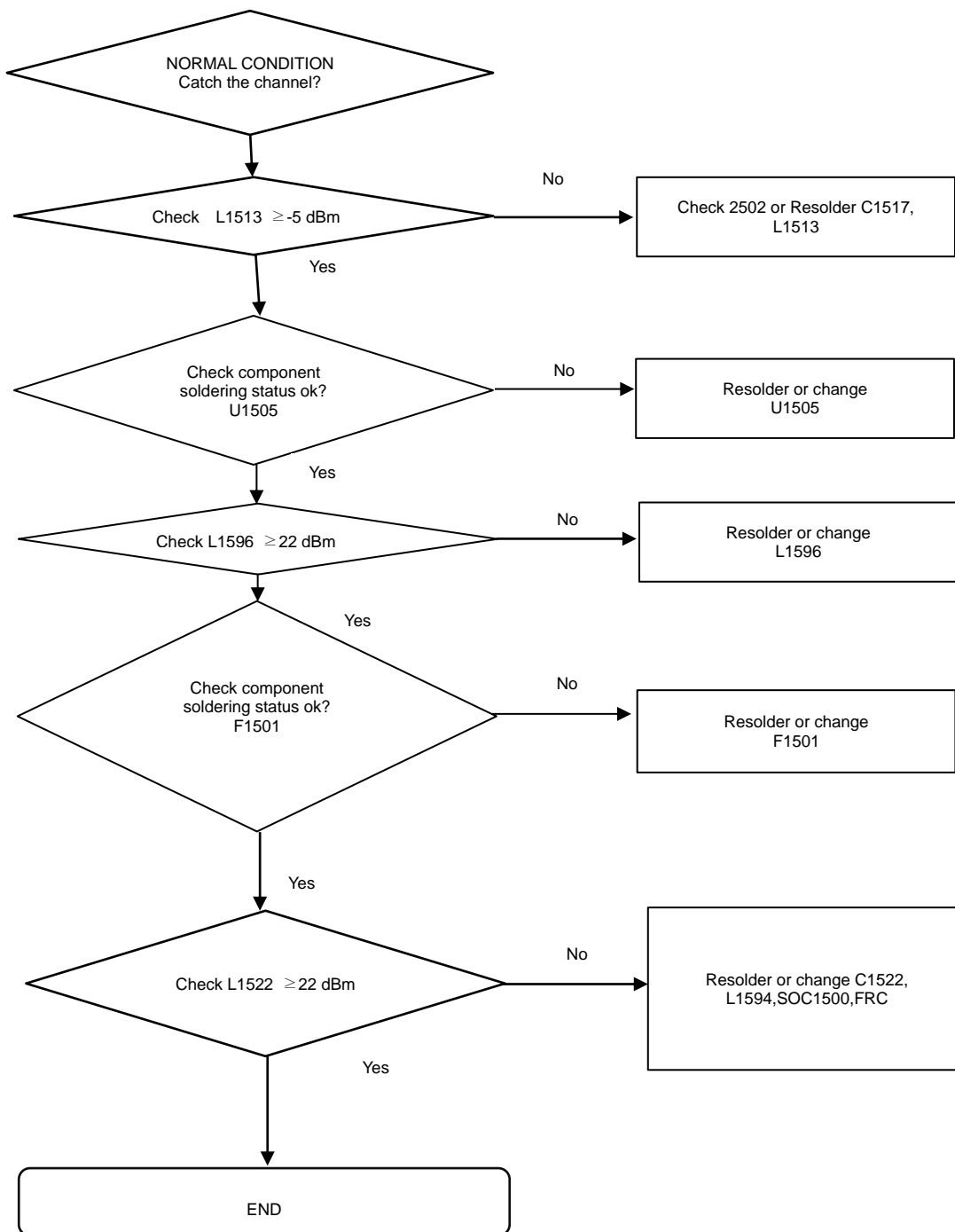


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## 8. Level 3 Repair

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

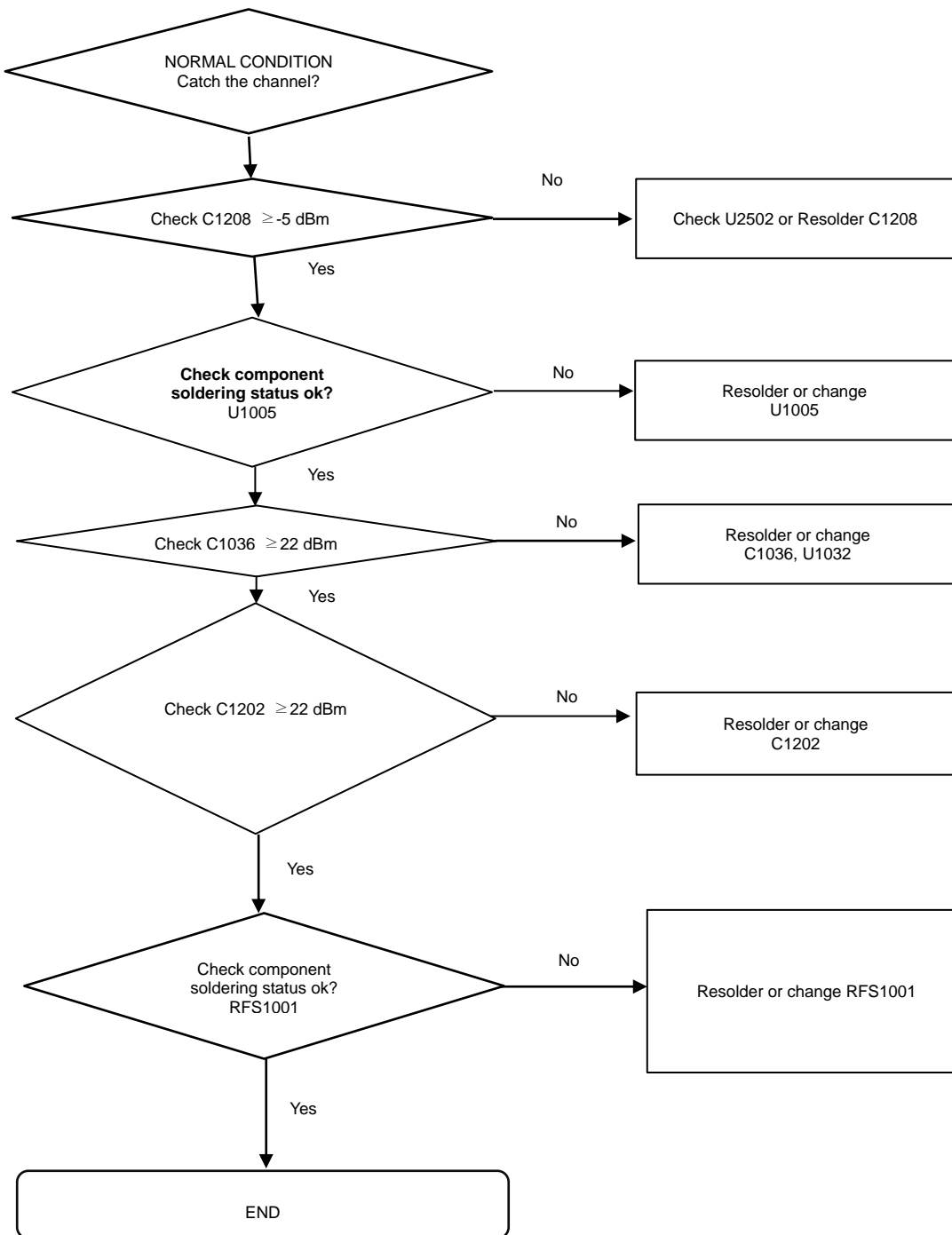


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## 8. Level 3 Repair

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### 8-4-39. N78 TX



## 8. Level 3 Repair

### 8-4-40. N78 RX

