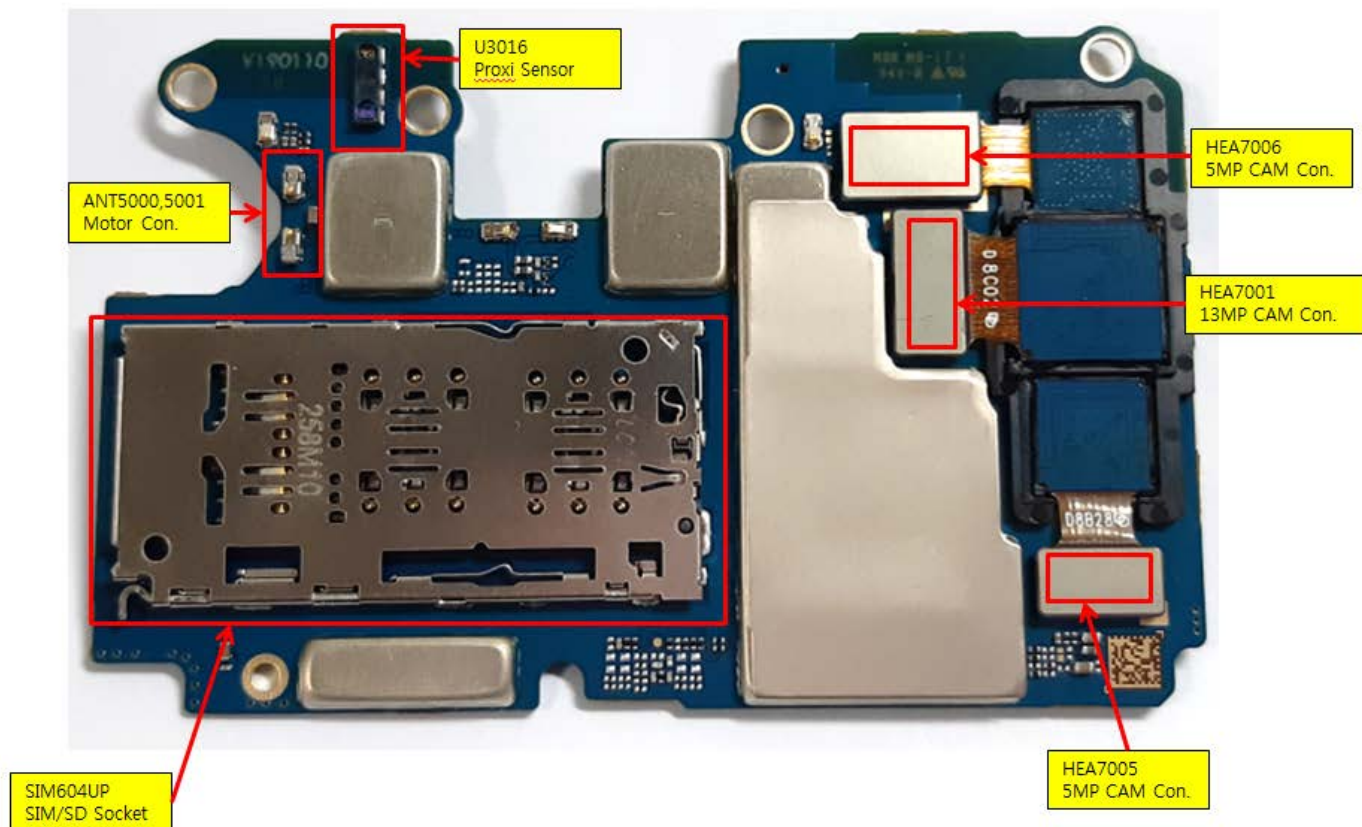


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## 8. Level 3 Repair

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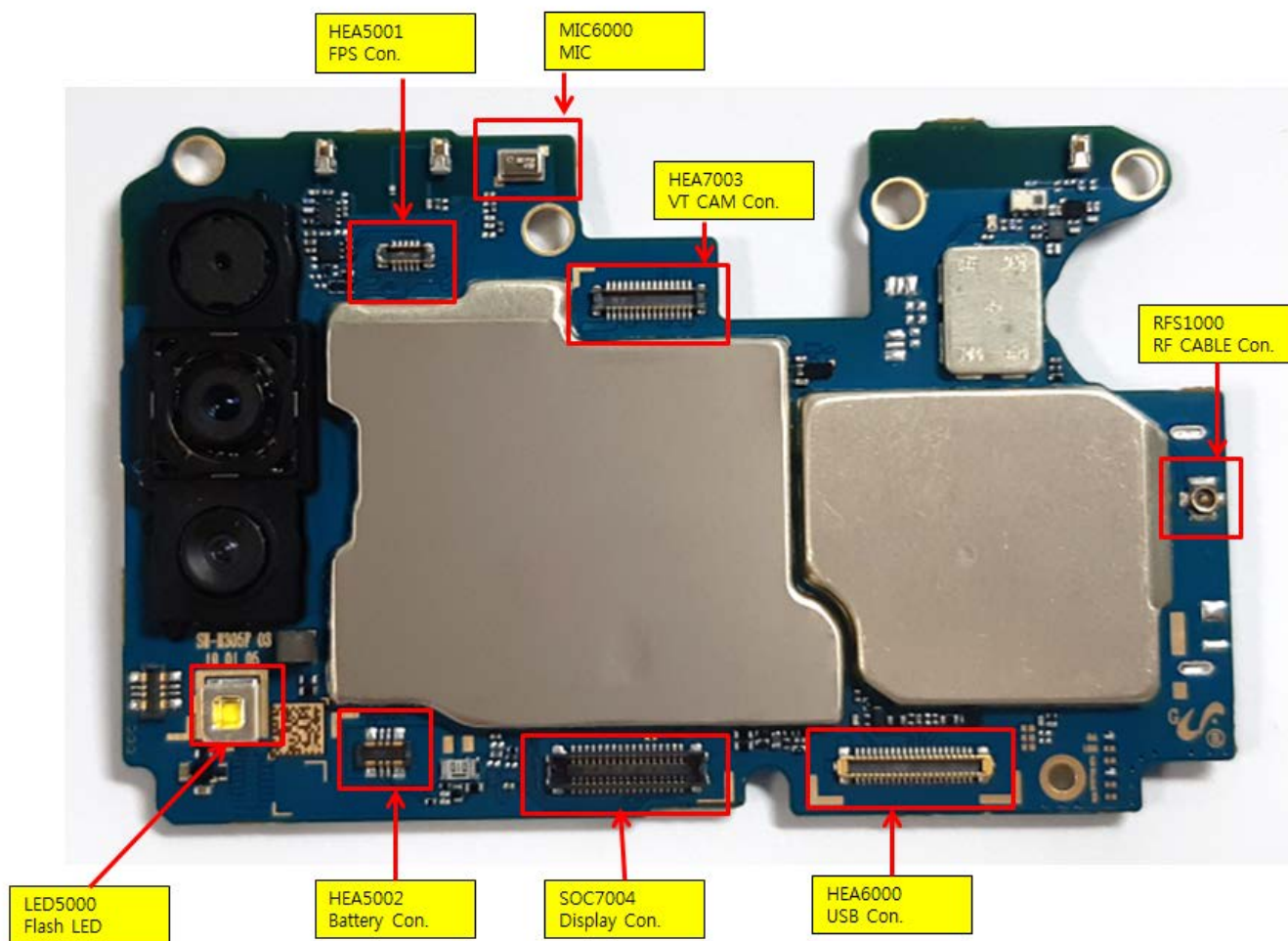
### 8-1. Components Layout



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## 8. Level 3 Repair

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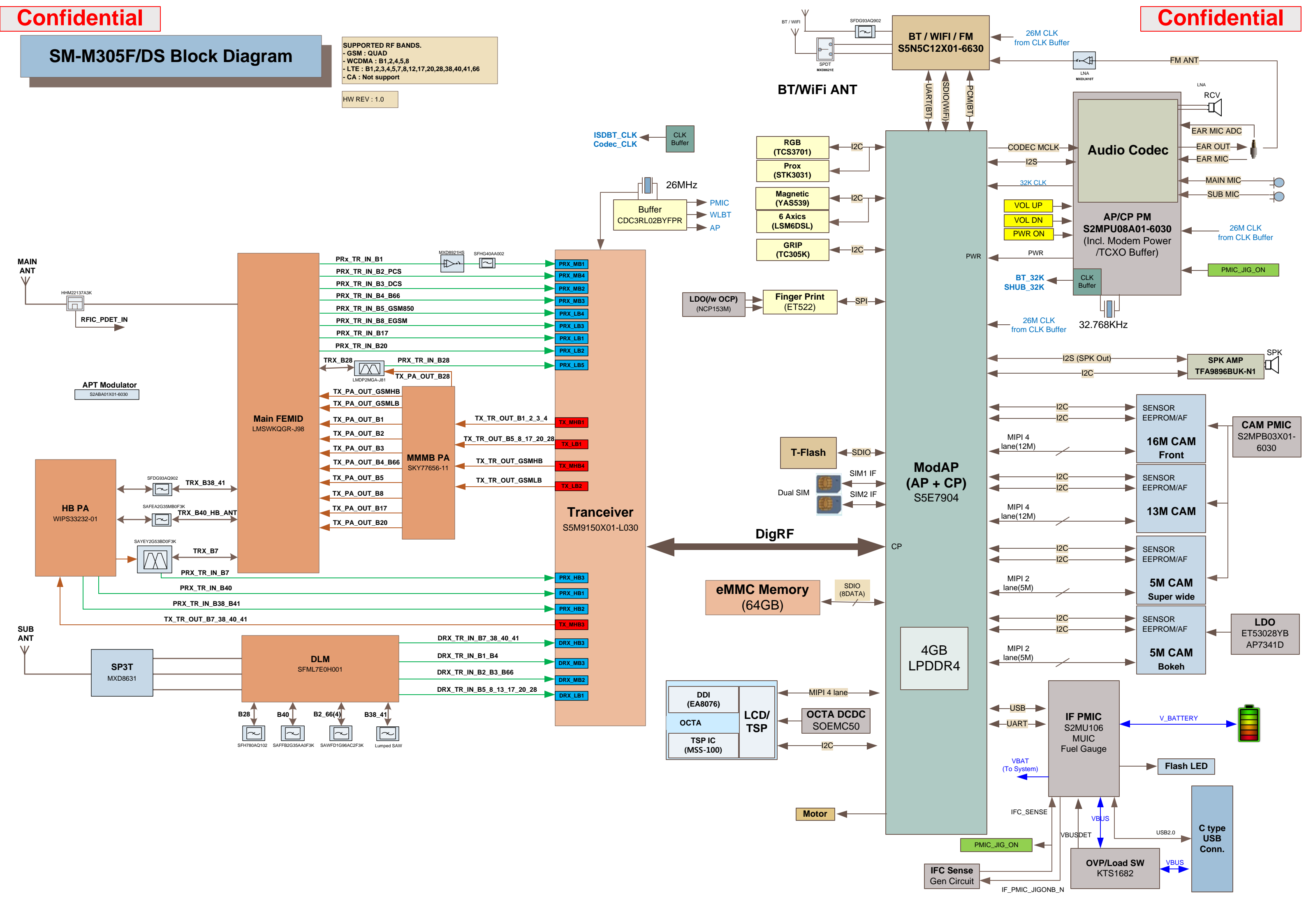
Confidential

## SM-M305F/DS Block Diagram

SUPPORTED RF BANDS.  
- GSM : QUAD  
- WCDMA : B1,2,4,5,8  
- LTE : B1,2,3,4,5,7,8,12,17,20,28,38,40,41,66  
- CA : Not support

HW REV : 1.0

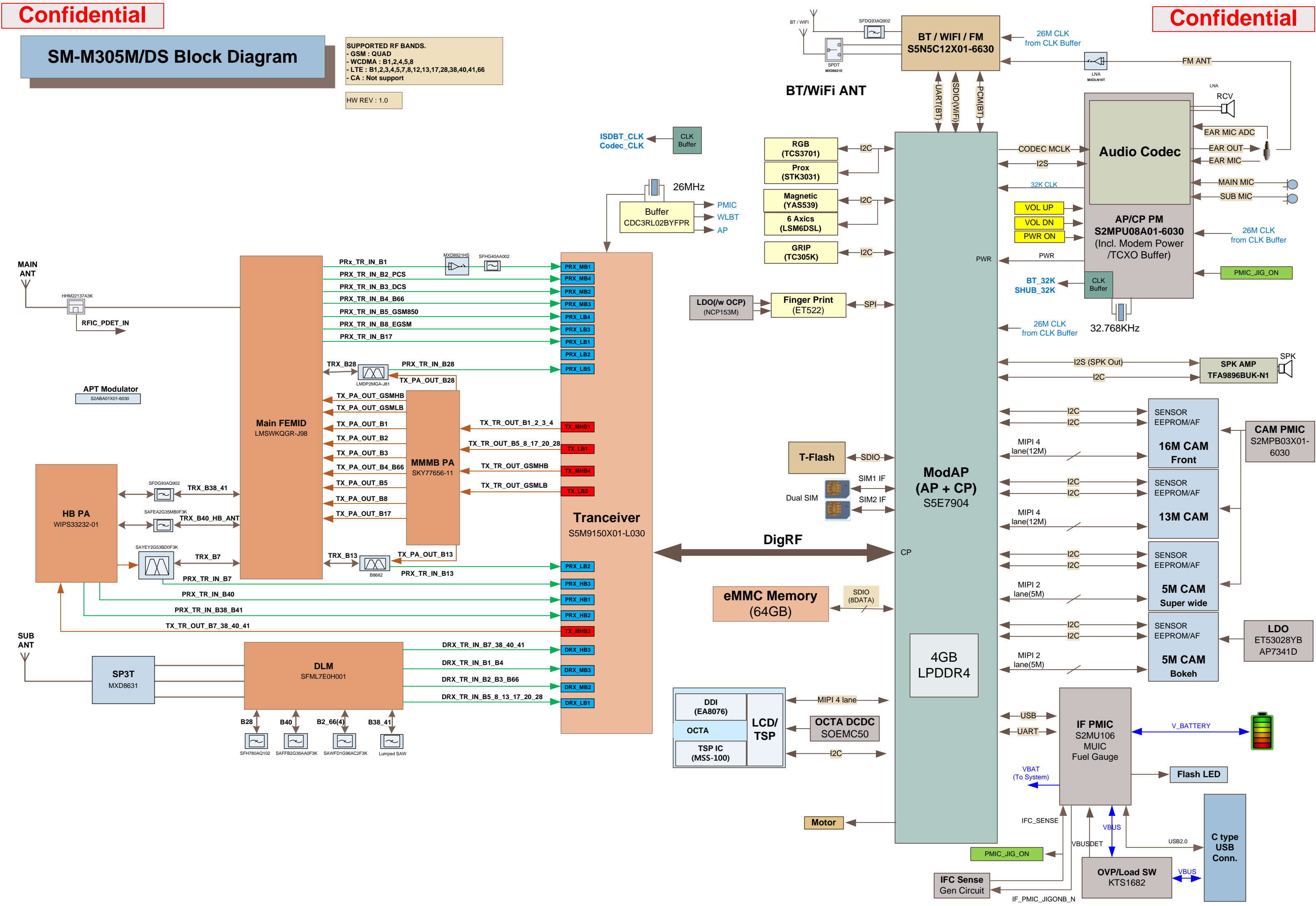
Confidential



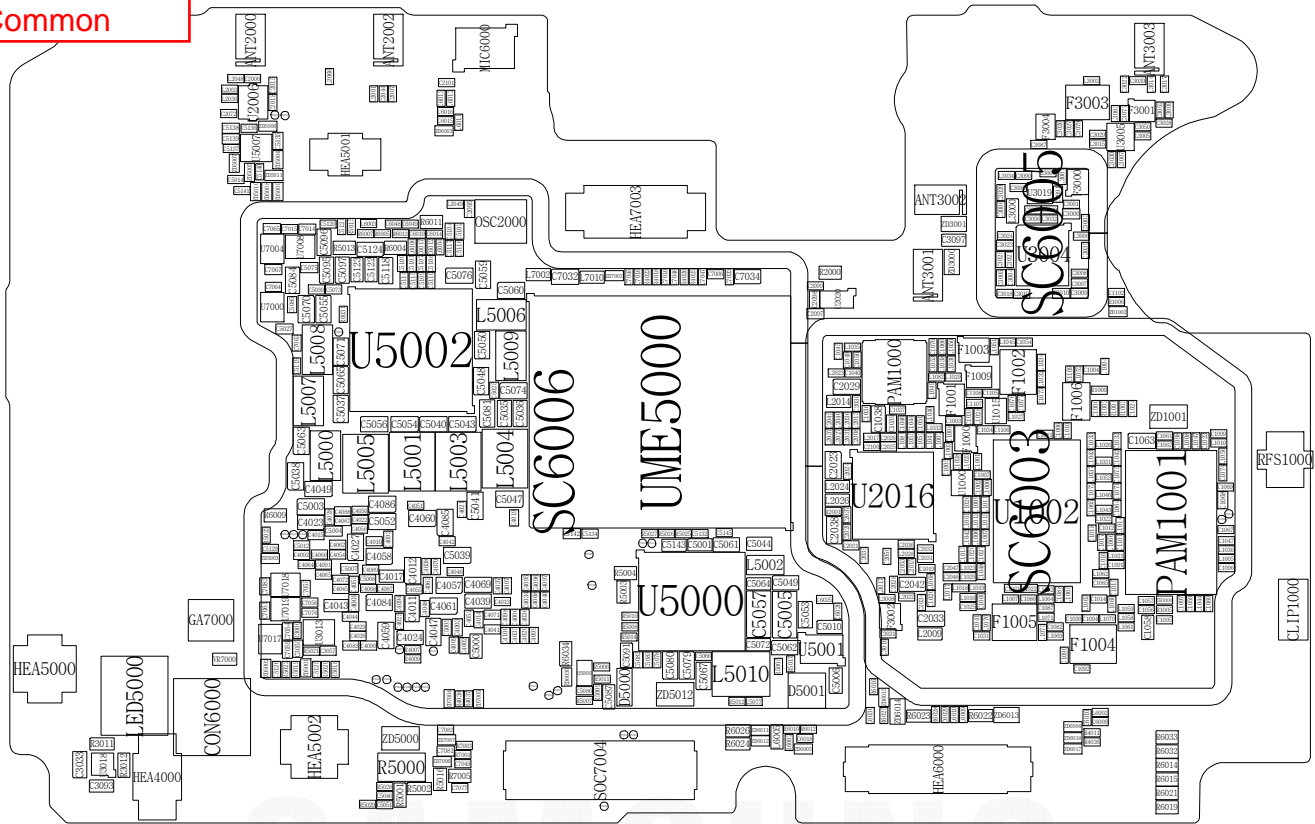
**SUPPORTED RF BANDS.**

- GSM : QUAD
- WCDMA : B1,2,4,5,8
- LTE : B1,2,3,4,5,7,8,12,13,17,28,38,40,41,66
- CA : Not support

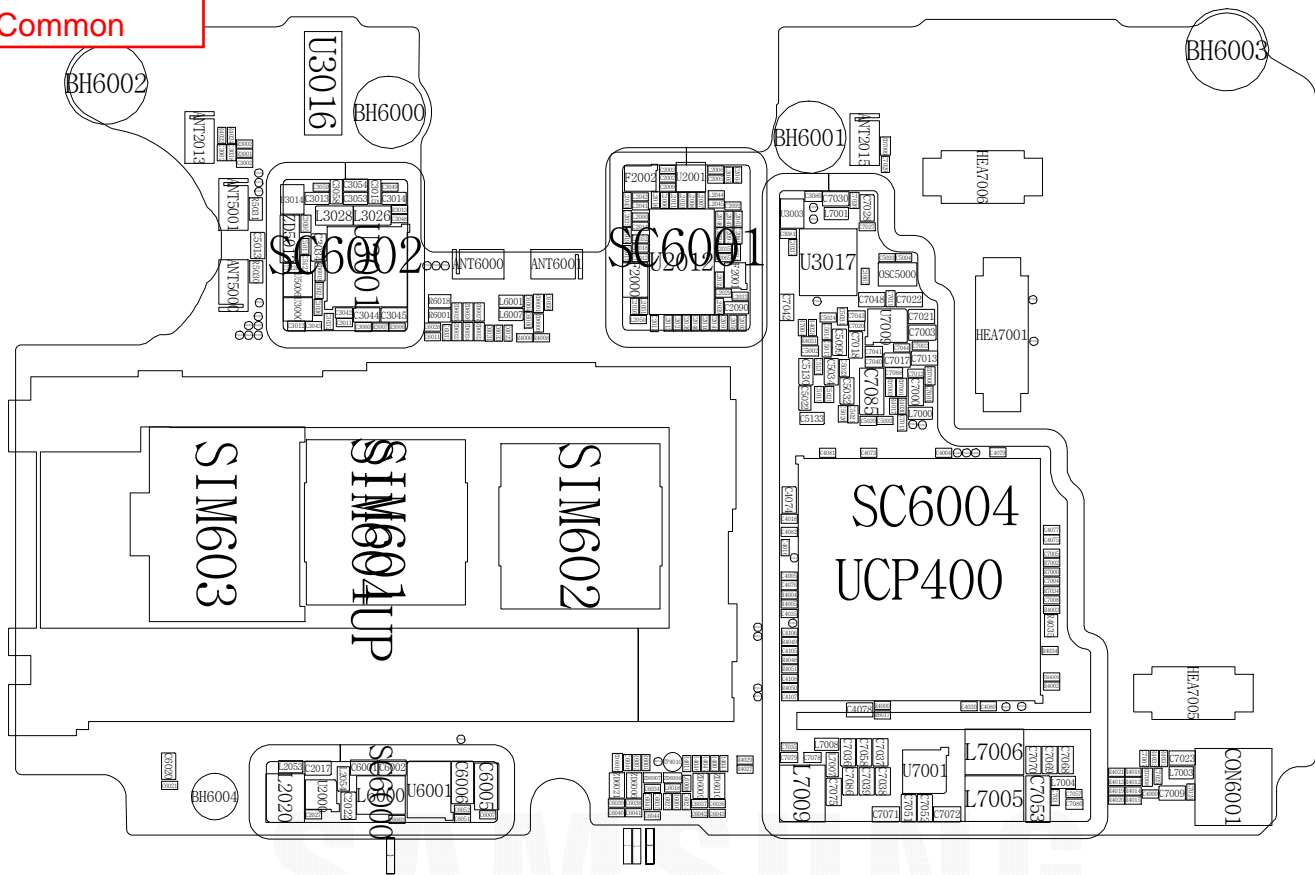
HW REV : 1.0



SM-M305F/M  
Common



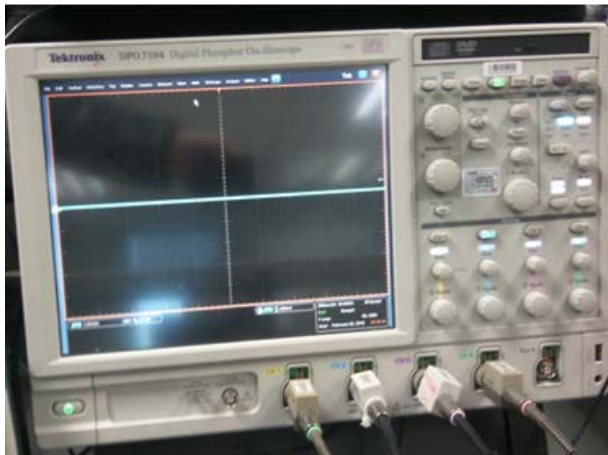
SM-M305F/M  
Common





## 8. Level 3 Repair

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



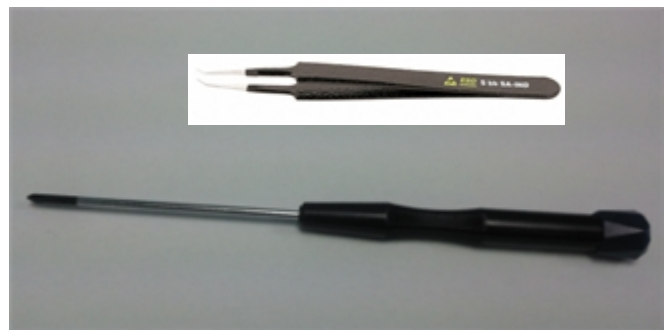
**Oscilloscope**



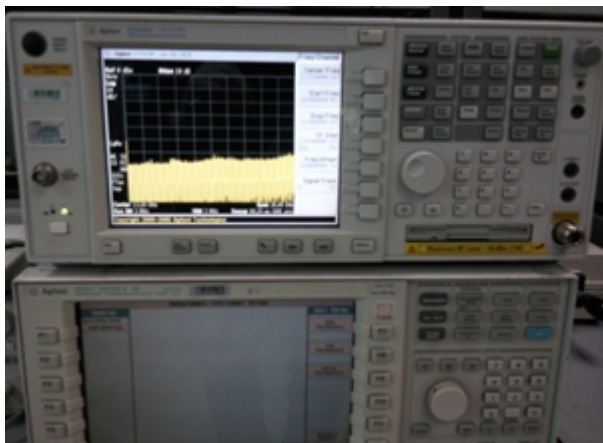
**Digital Multimeter**



**Power Supply**



**+ driver, ESD Safe Tweezer**



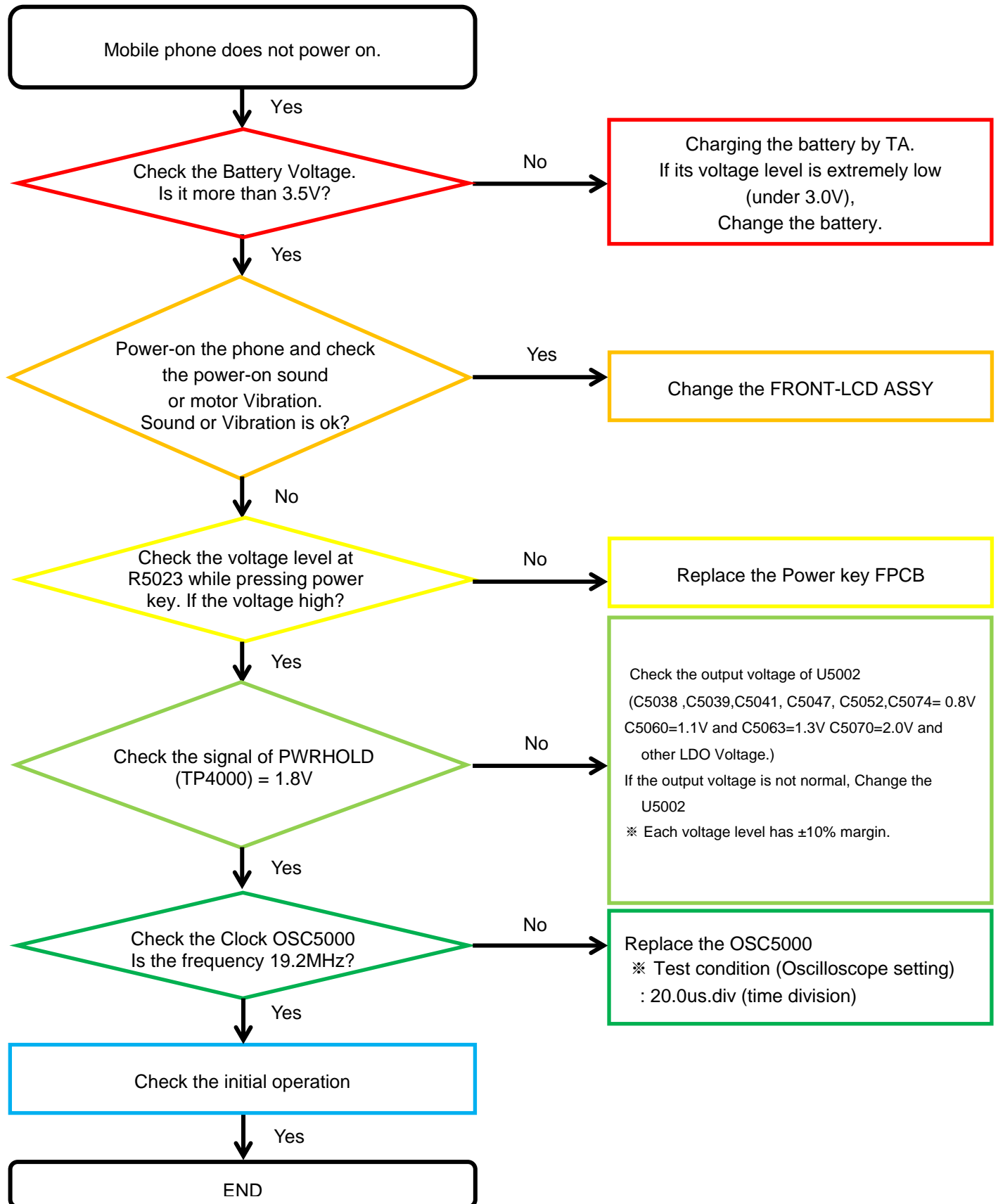
**8960 & Spectrum Analyzer**



**Soldering iron**

## 8. Level 3 Repair

### 8-4-1. Power On



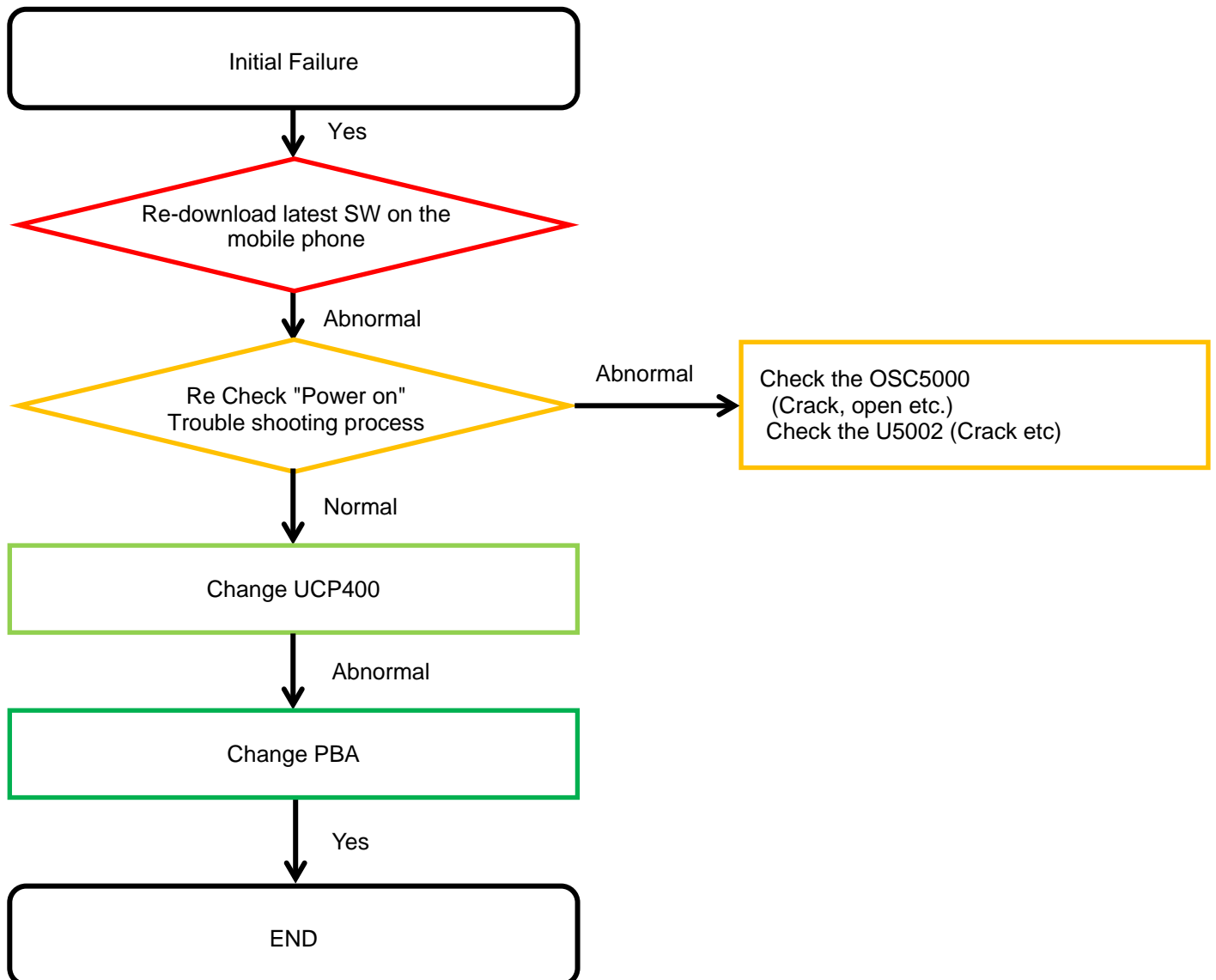


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## 8. Level 3 Repair

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### 8-4-2. Initial

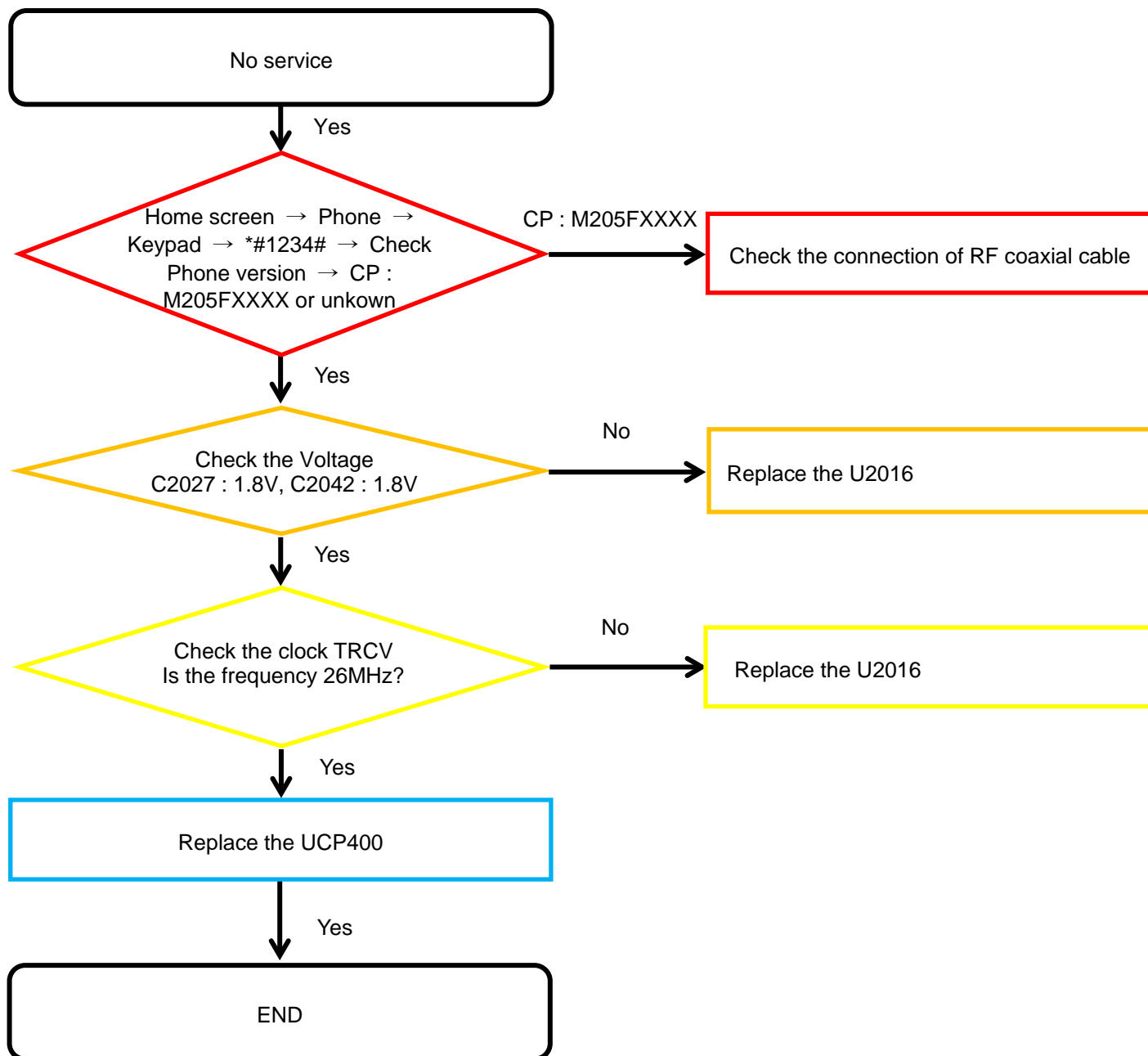


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## 8. Level 3 Repair

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### 8-4-3. No Service

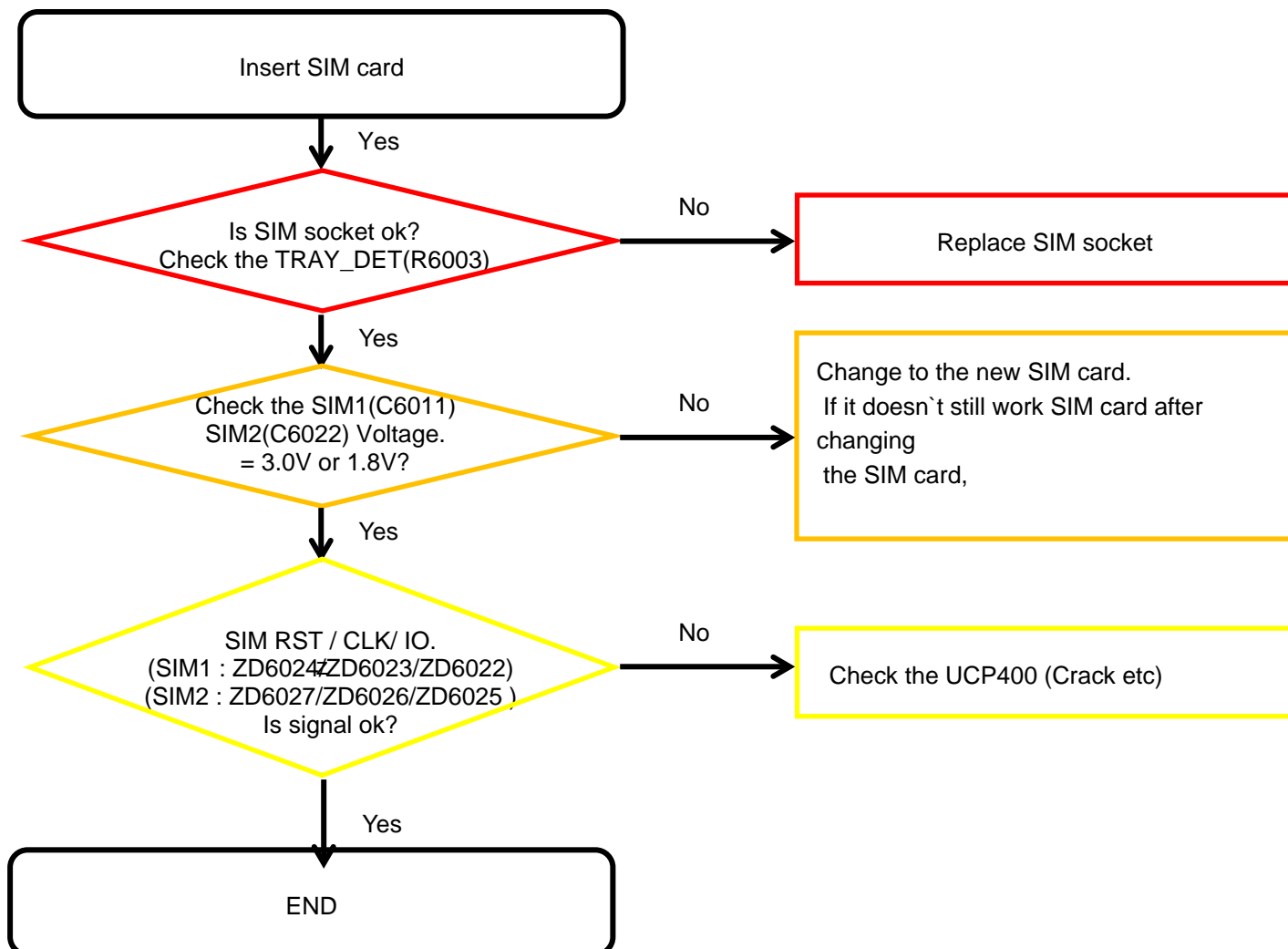


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## 8. Level 3 Repair

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### 8-4-4. SIM Part

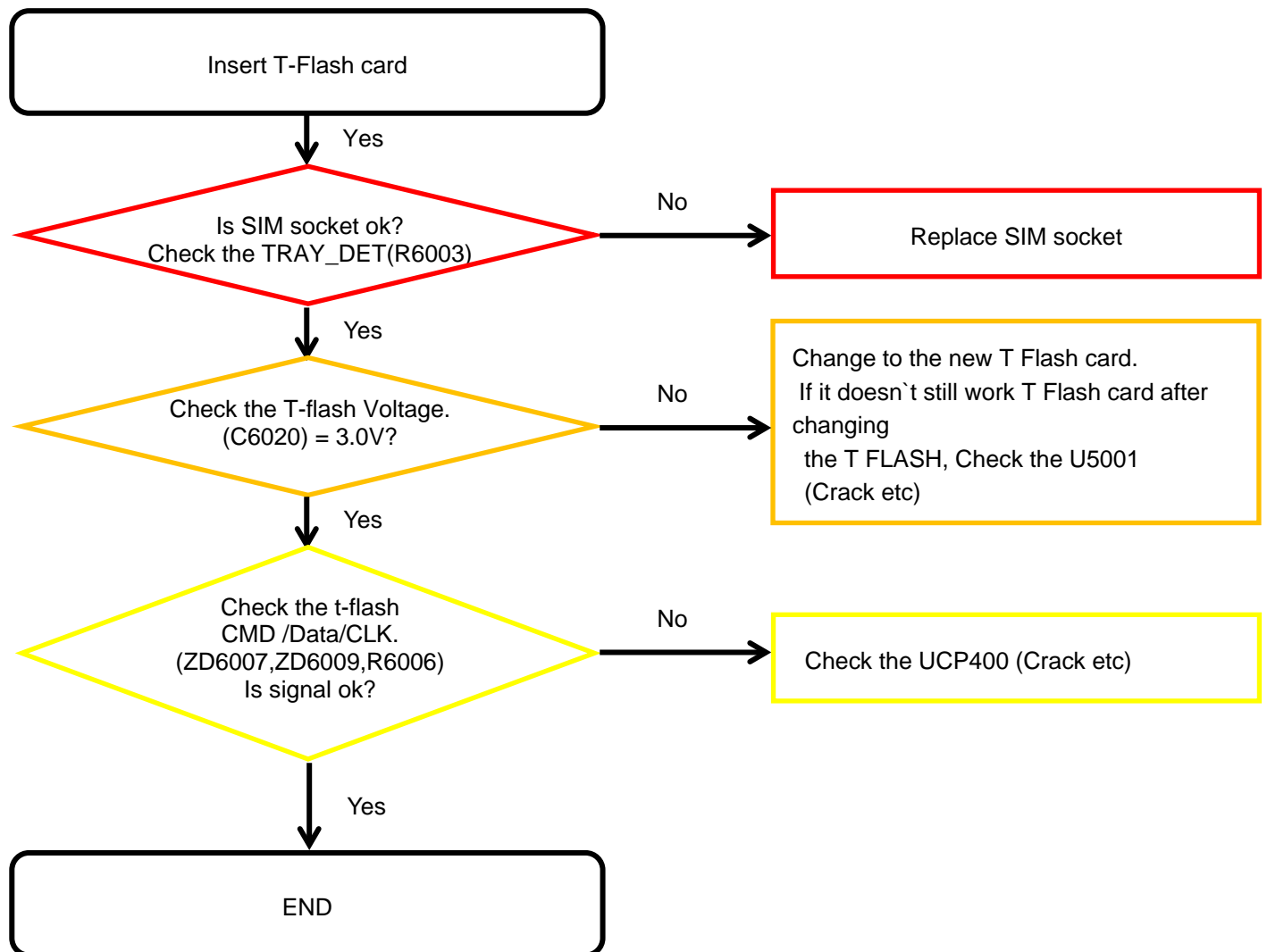


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## 8. Level 3 Repair

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

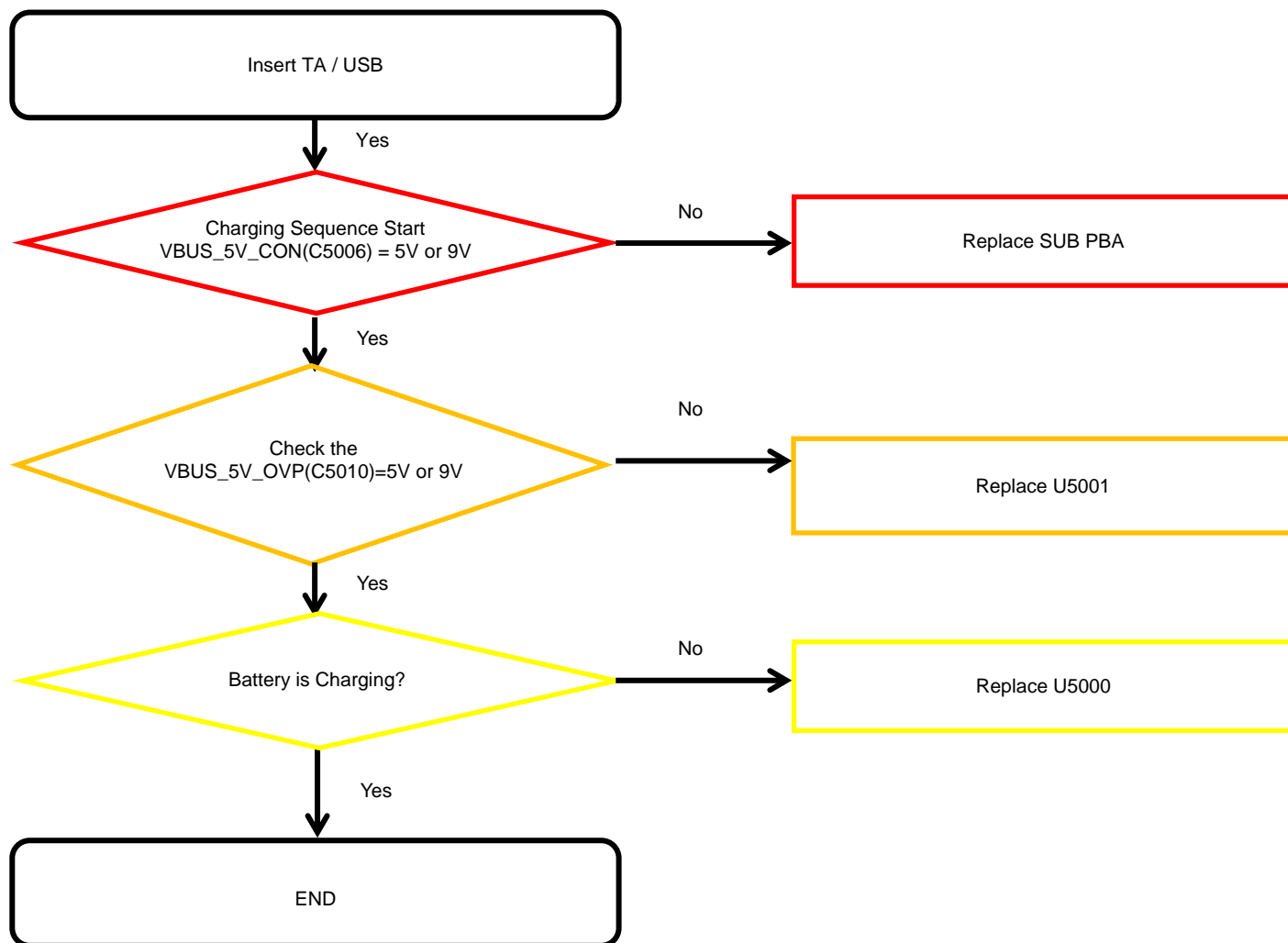


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## 8. Level 3 Repair

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



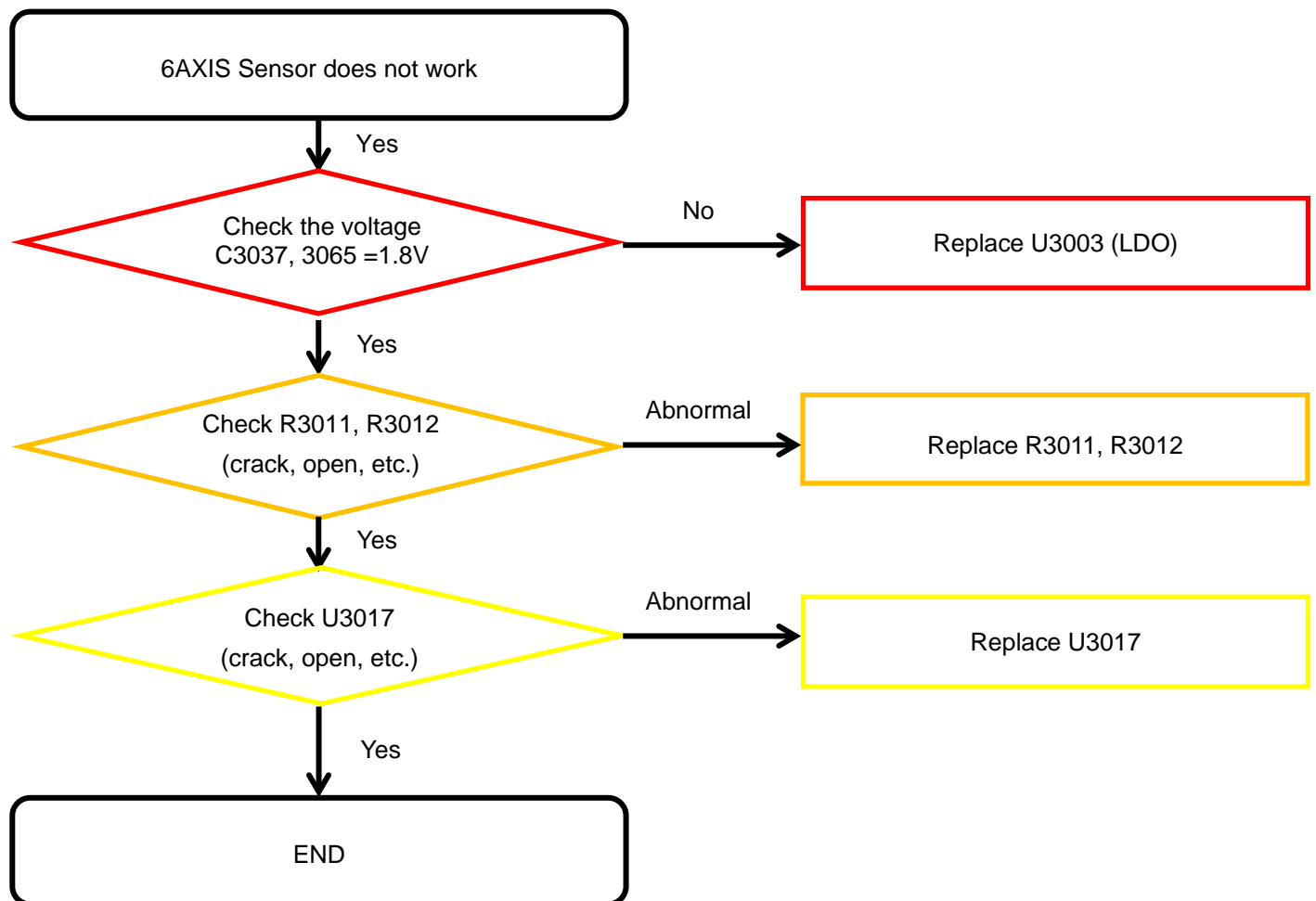


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## 8. Level 3 Repair

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

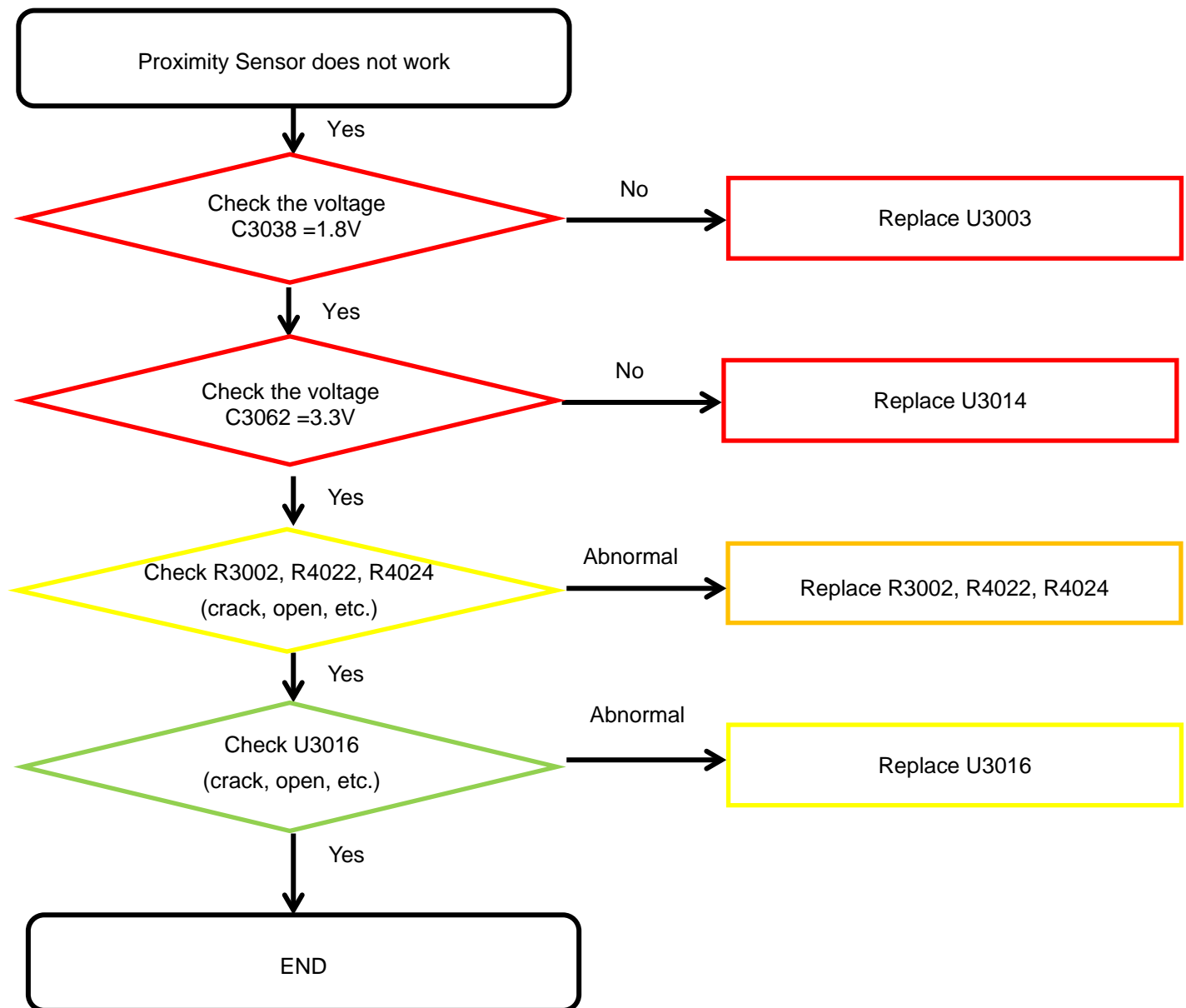


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## 8. Level 3 Repair

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### 8-4-7-2. Proximity sensor

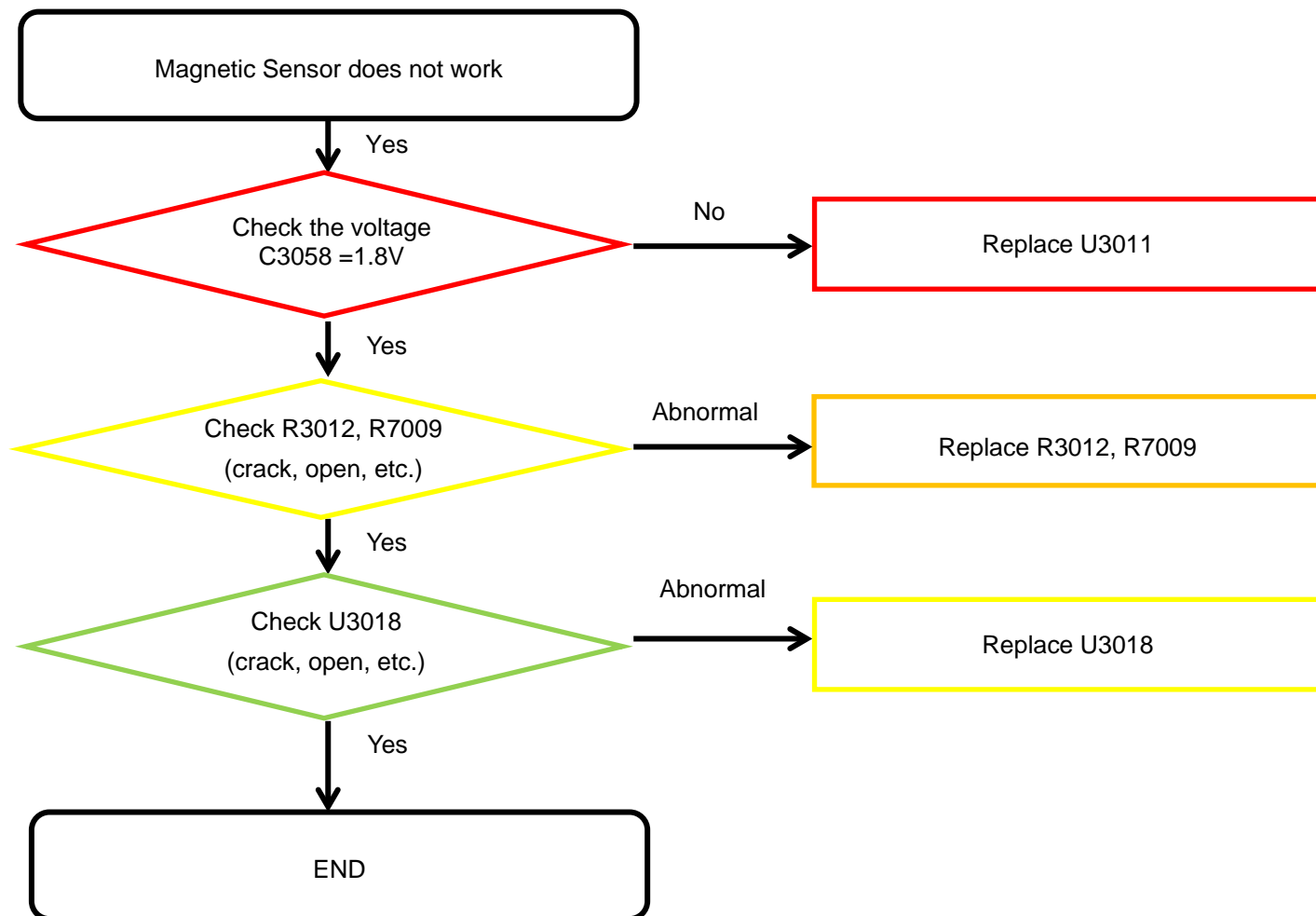


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## 8. Level 3 Repair

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

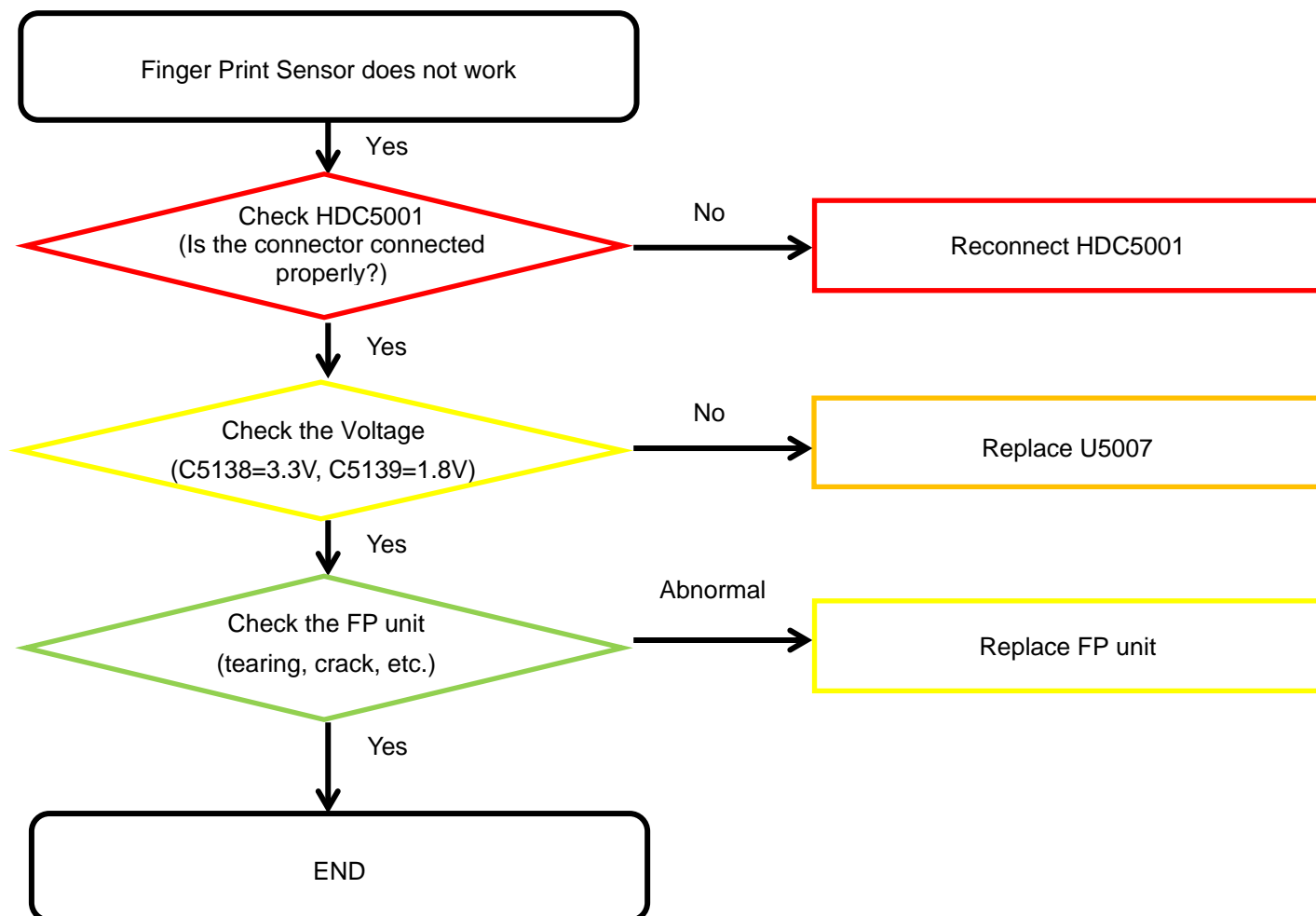


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## 8. Level 3 Repair

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### 8-4-7-4. Finger Print sensor

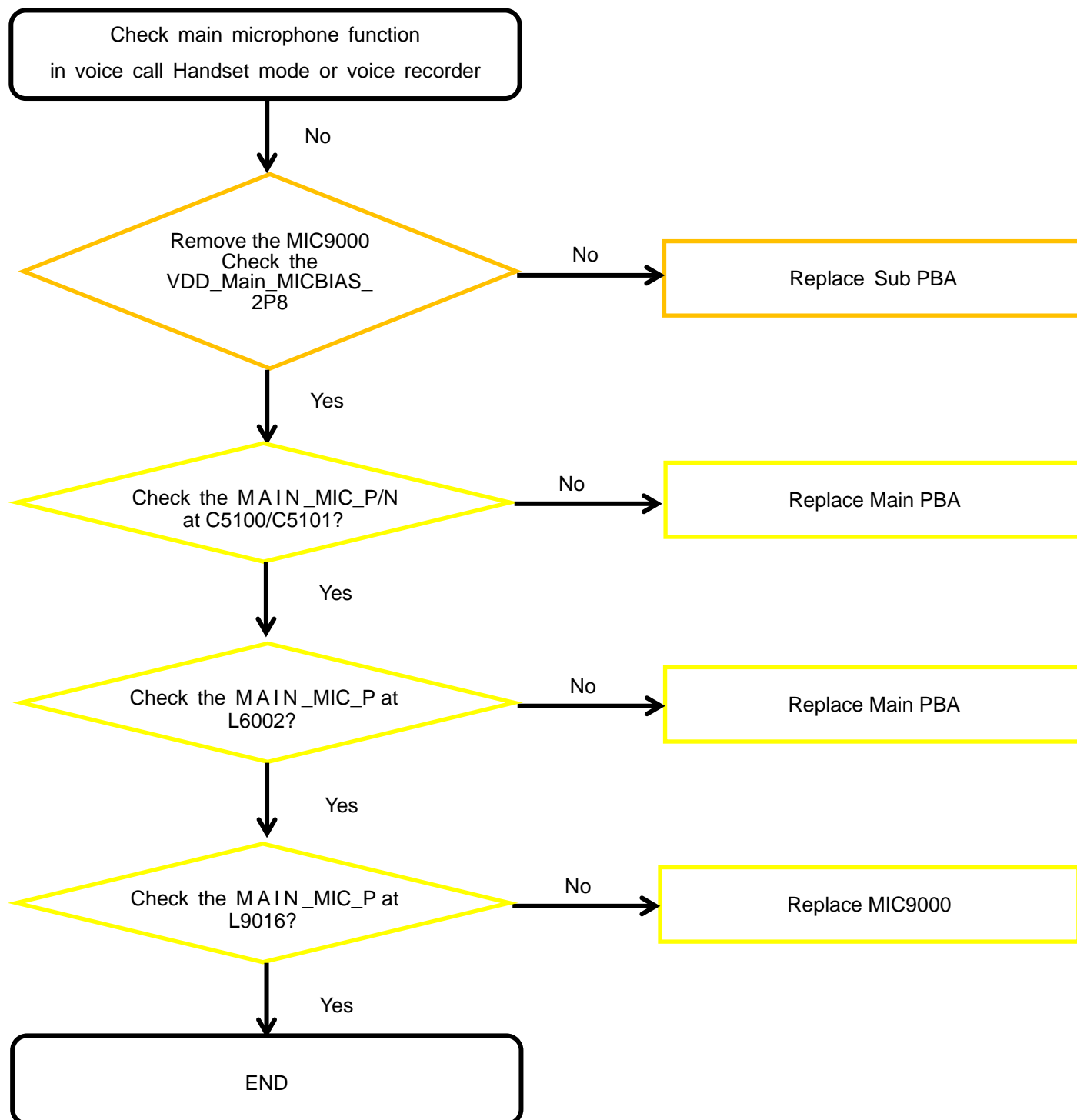


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## 8. Level 3 Repair

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



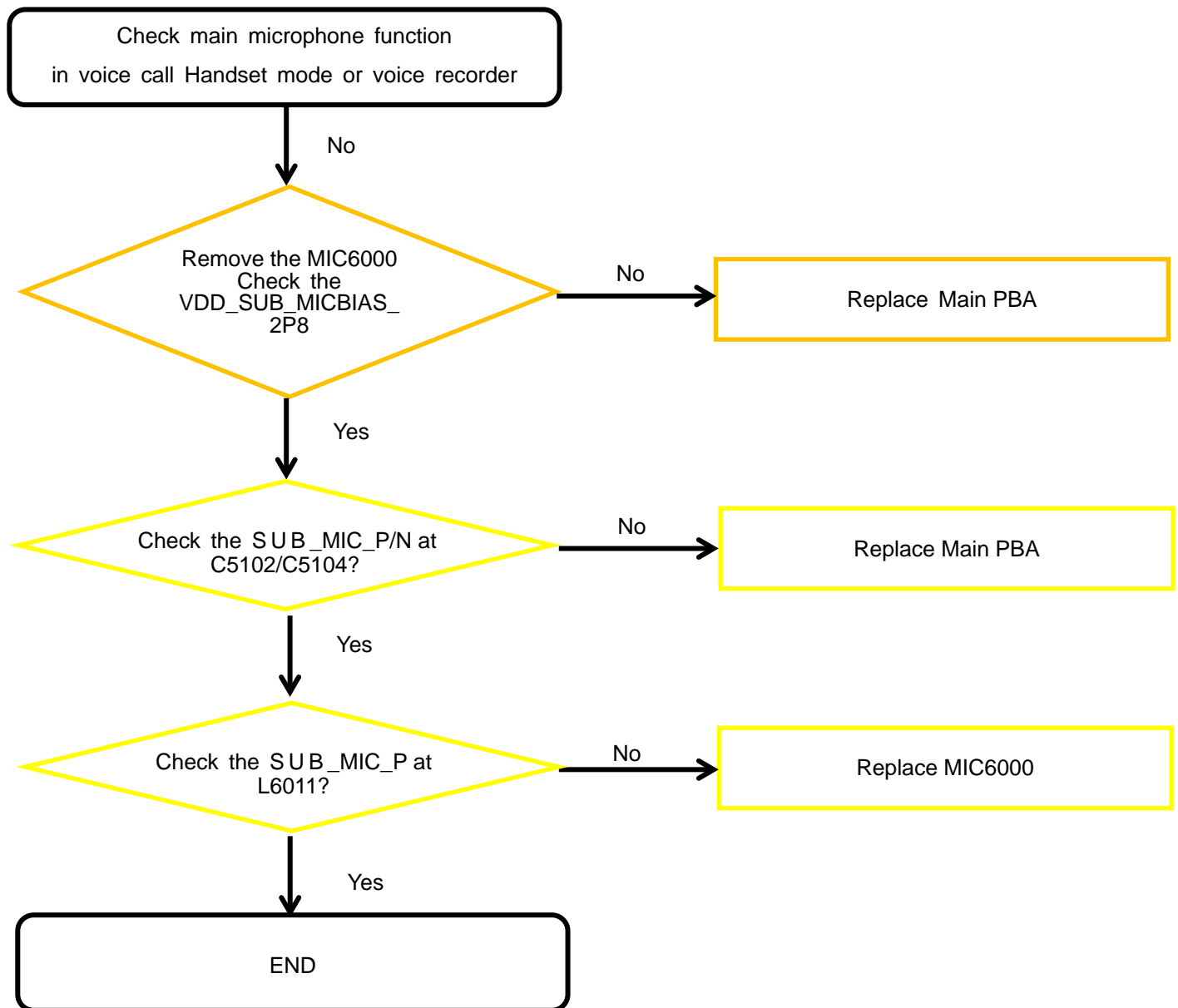


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## 8. Level 3 Repair

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

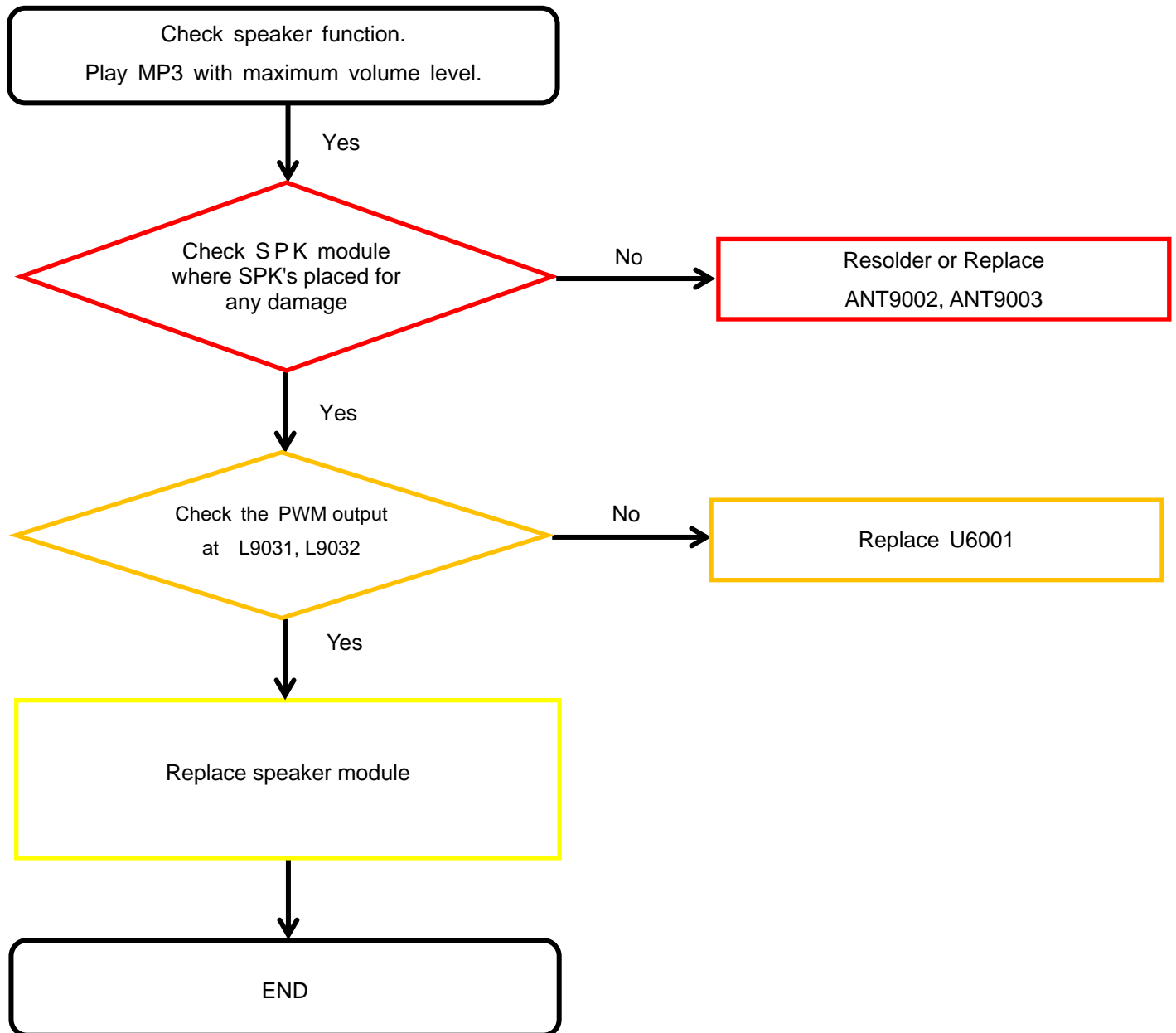


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## 8. Level 3 Repair

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### 8-4-9. Speaker Part

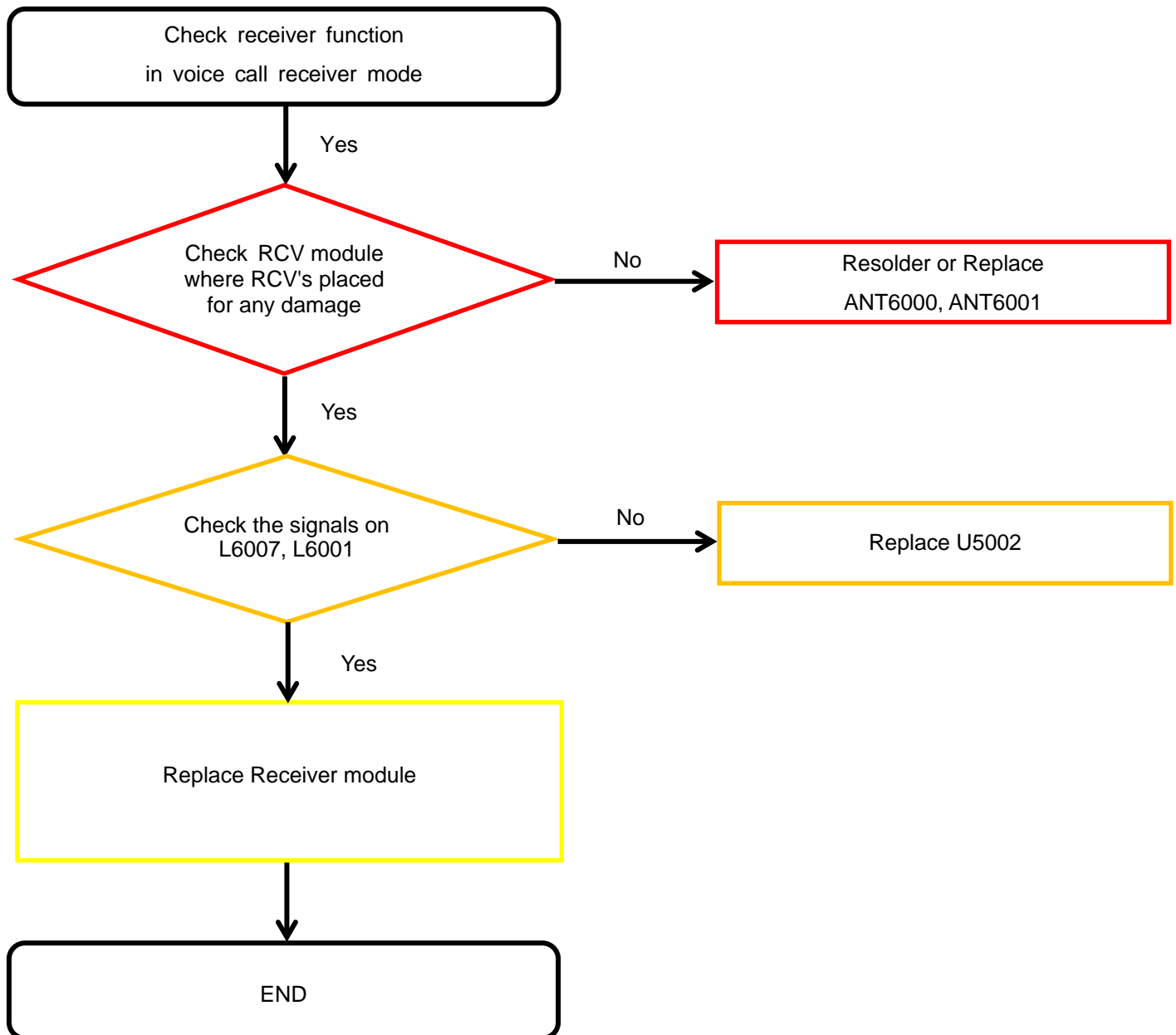


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## 8. Level 3 Repair

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### 8-4-10. Receiver Part

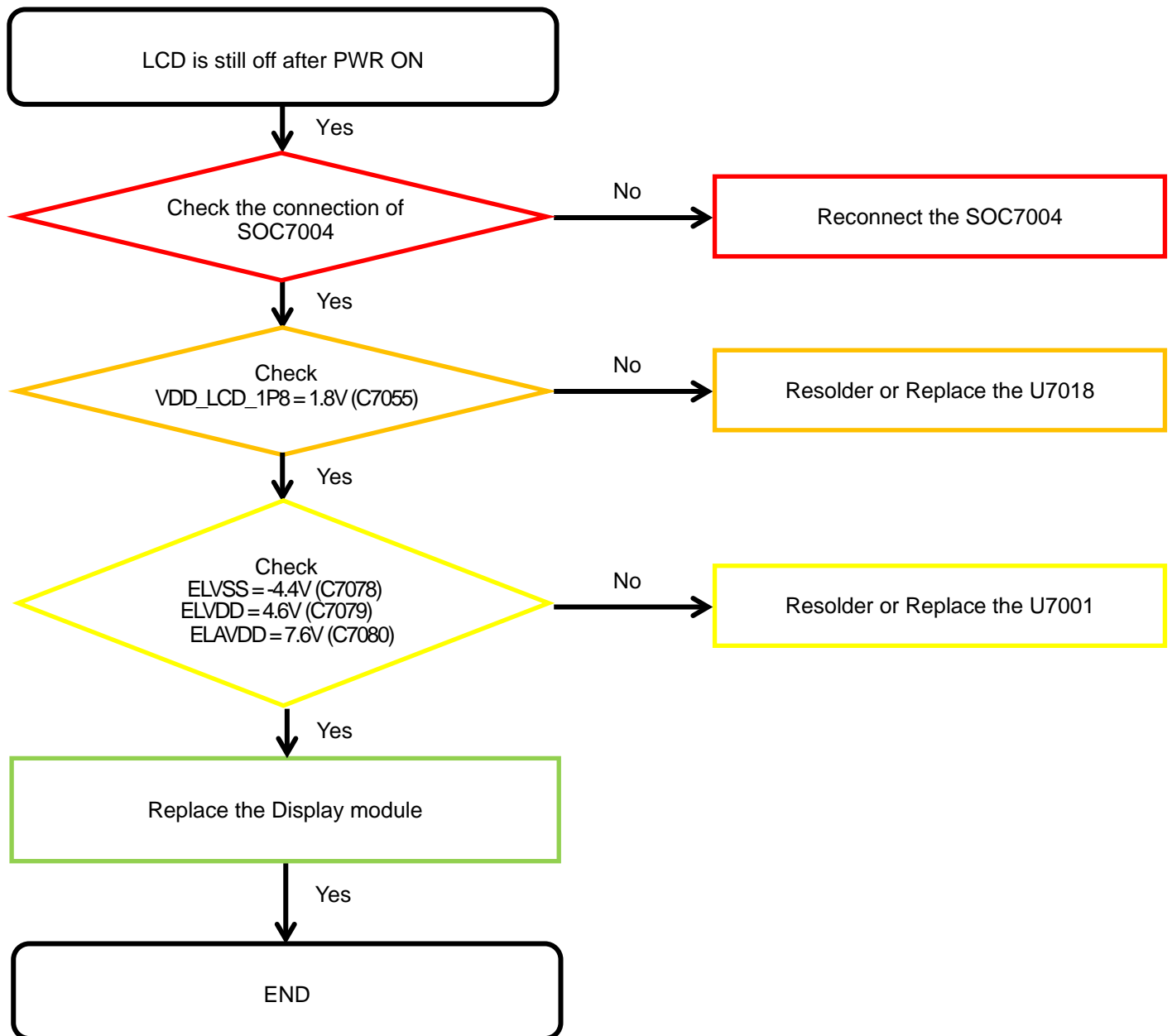


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## 8. Level 3 Repair

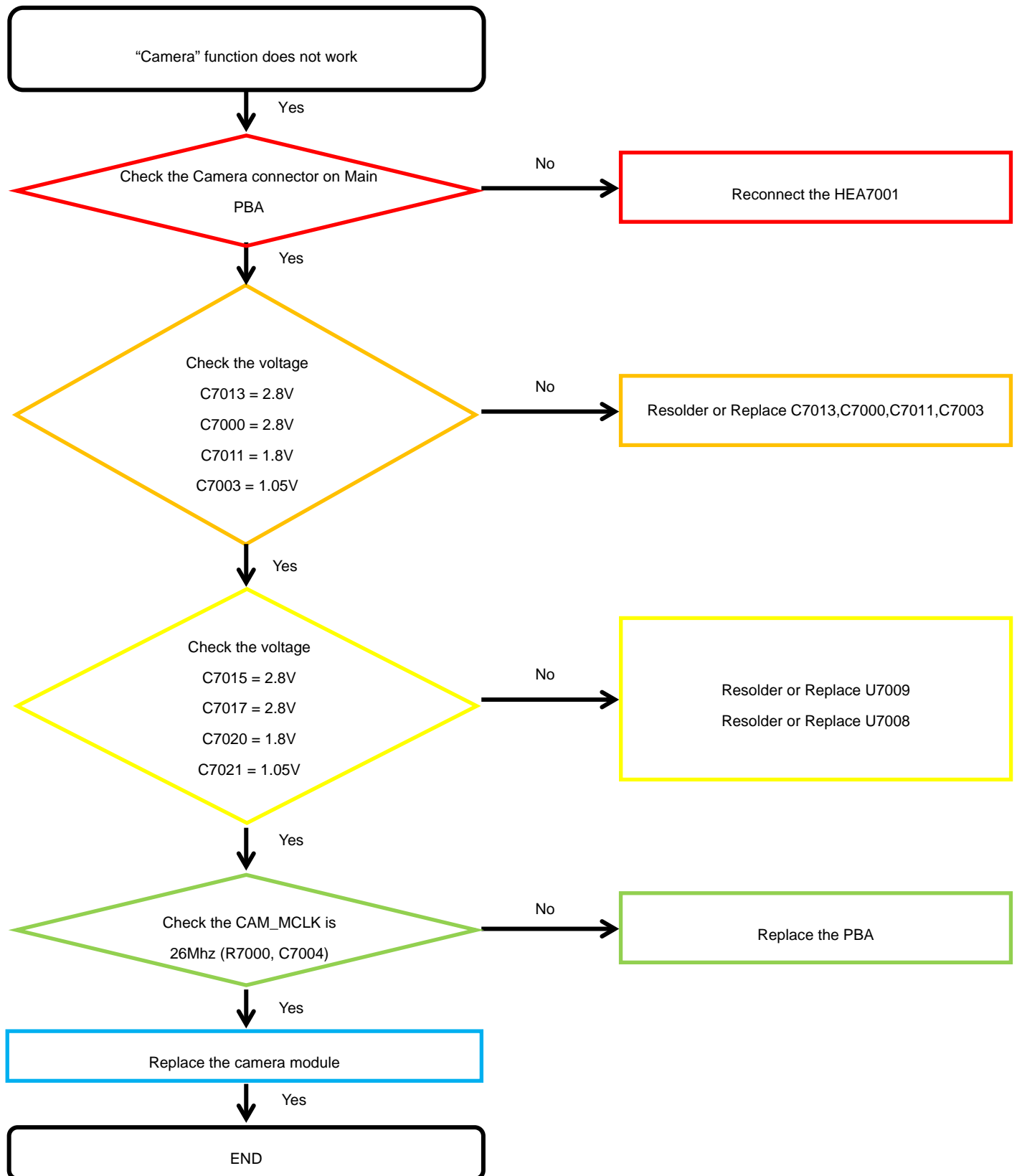
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### 8-4-11. Display



## 8. Level 3 Repair

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



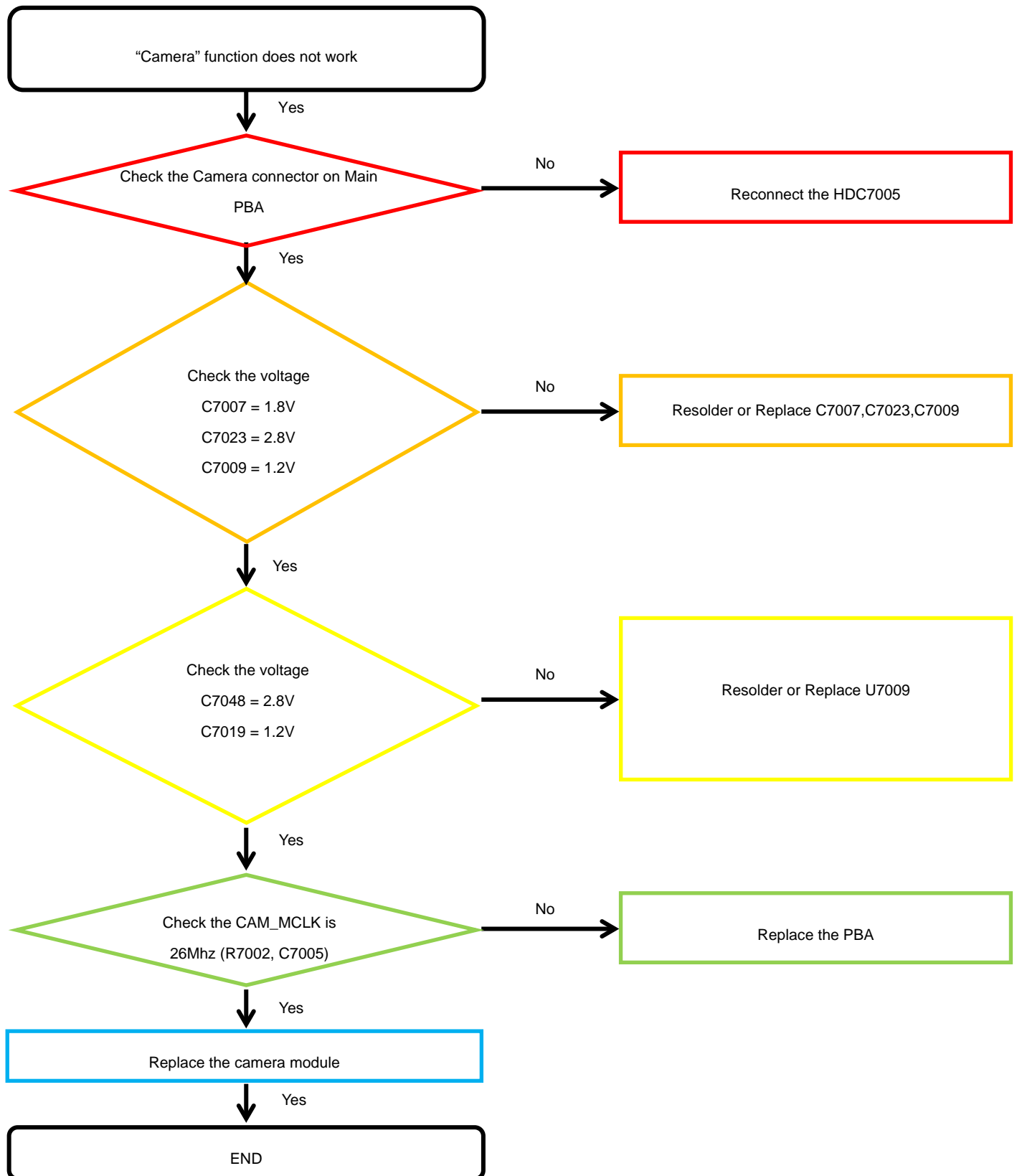


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## 8. Level 3 Repair

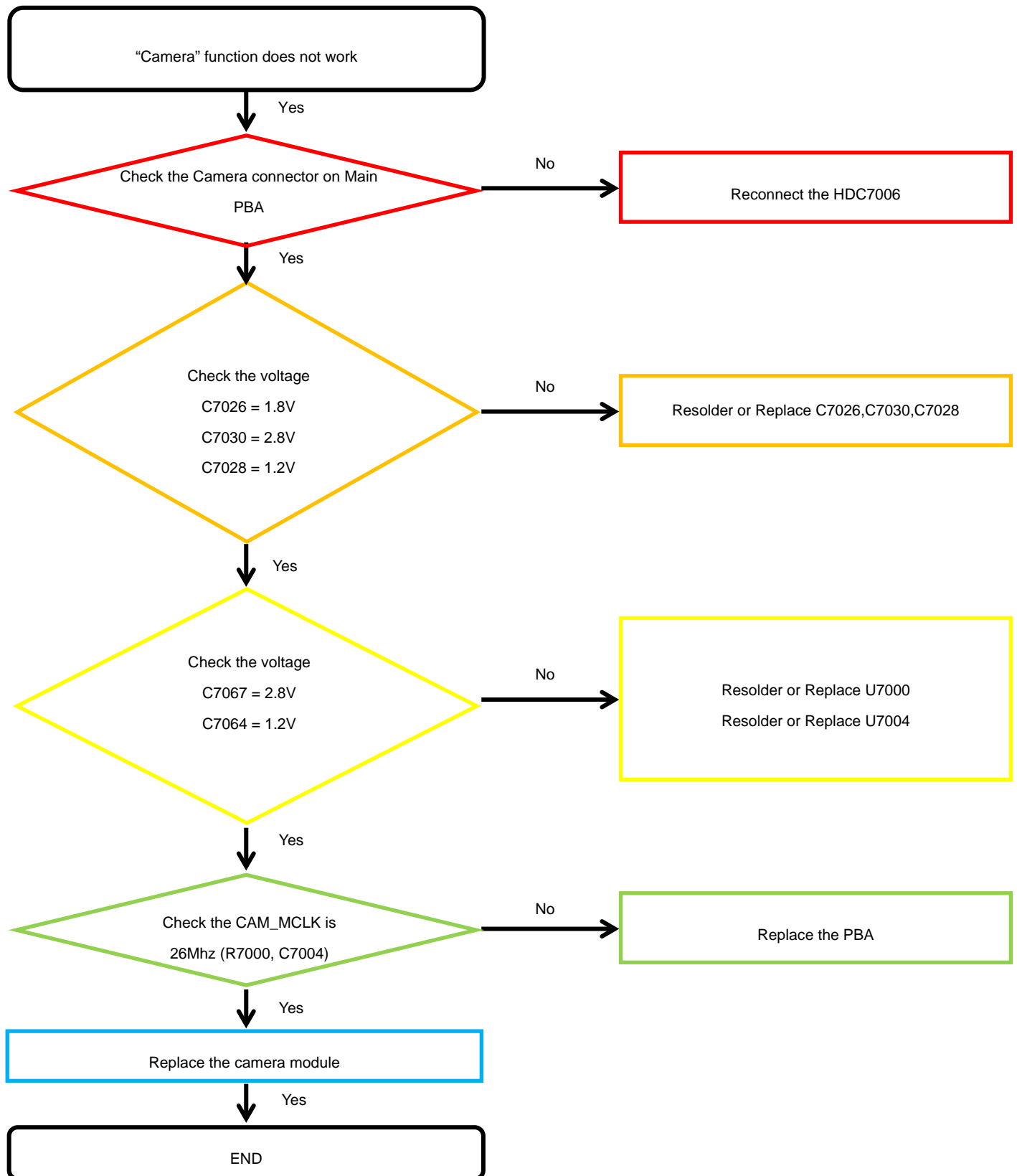
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### 8-4-12-2. 5M FF UW Rear CAMERA



## 8. Level 3 Repair

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

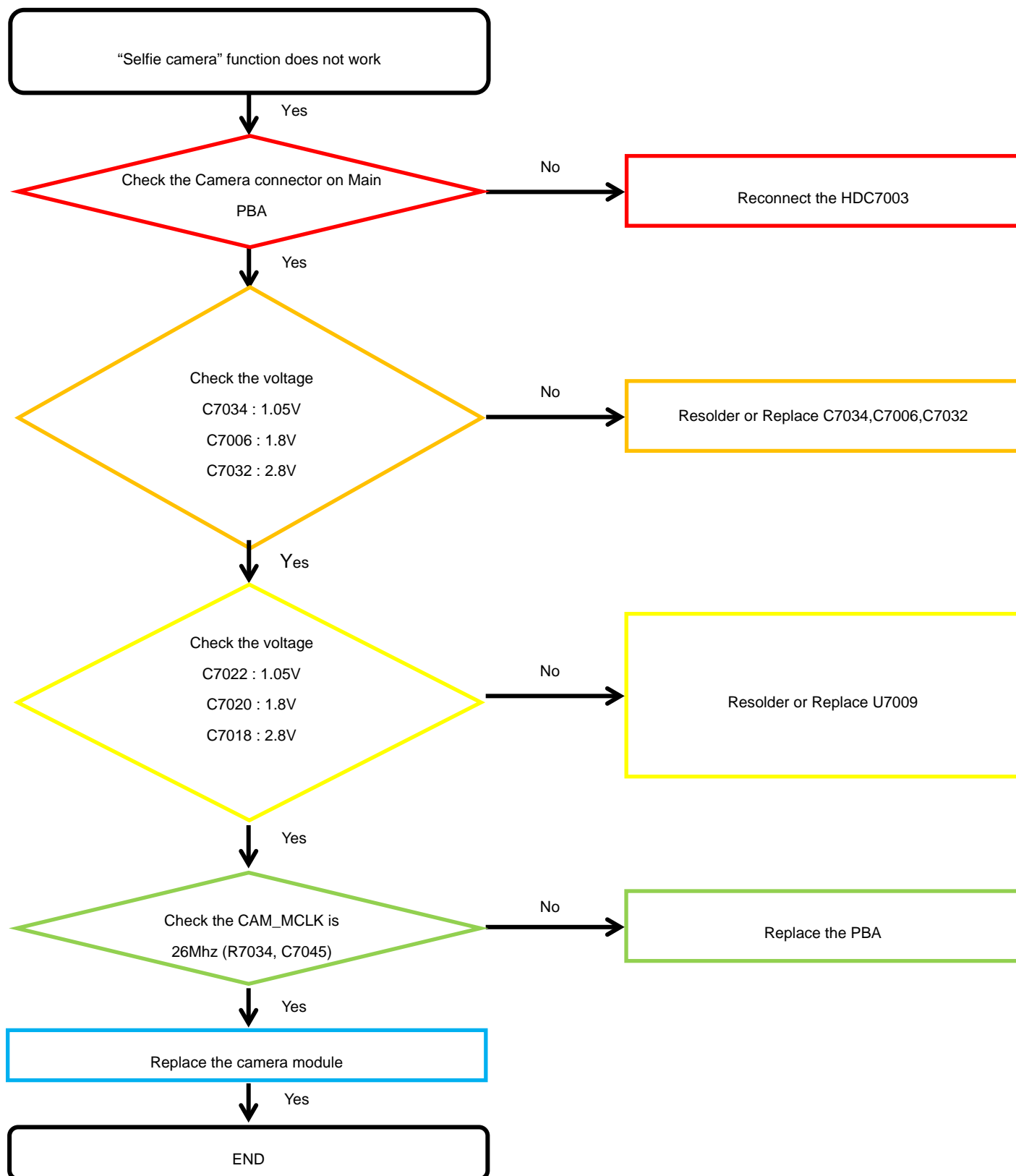


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## 8. Level 3 Repair

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### 8-4-13. 16M FF Front CAMERA

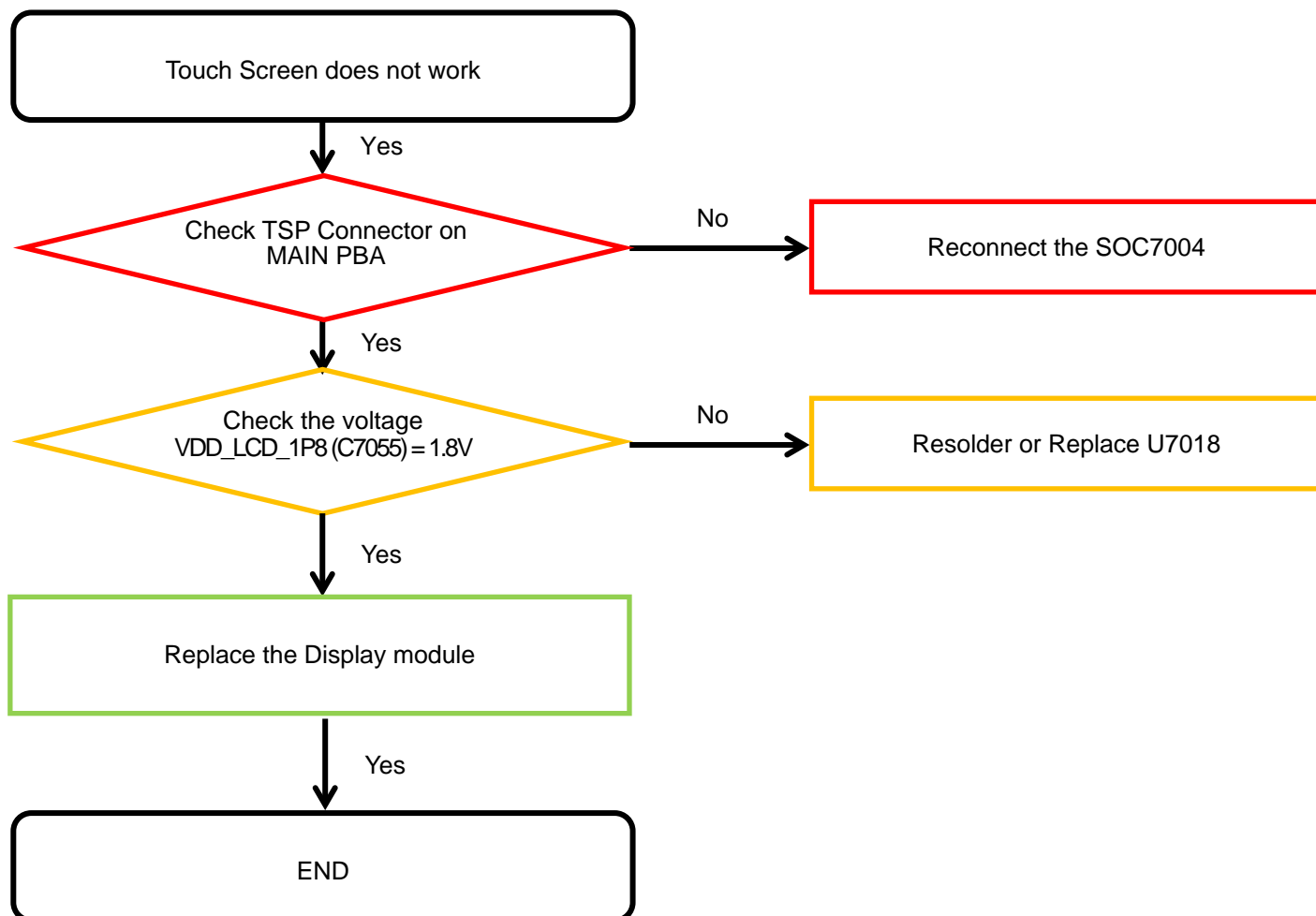


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## 8. Level 3 Repair

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### 8-4-14. TSP

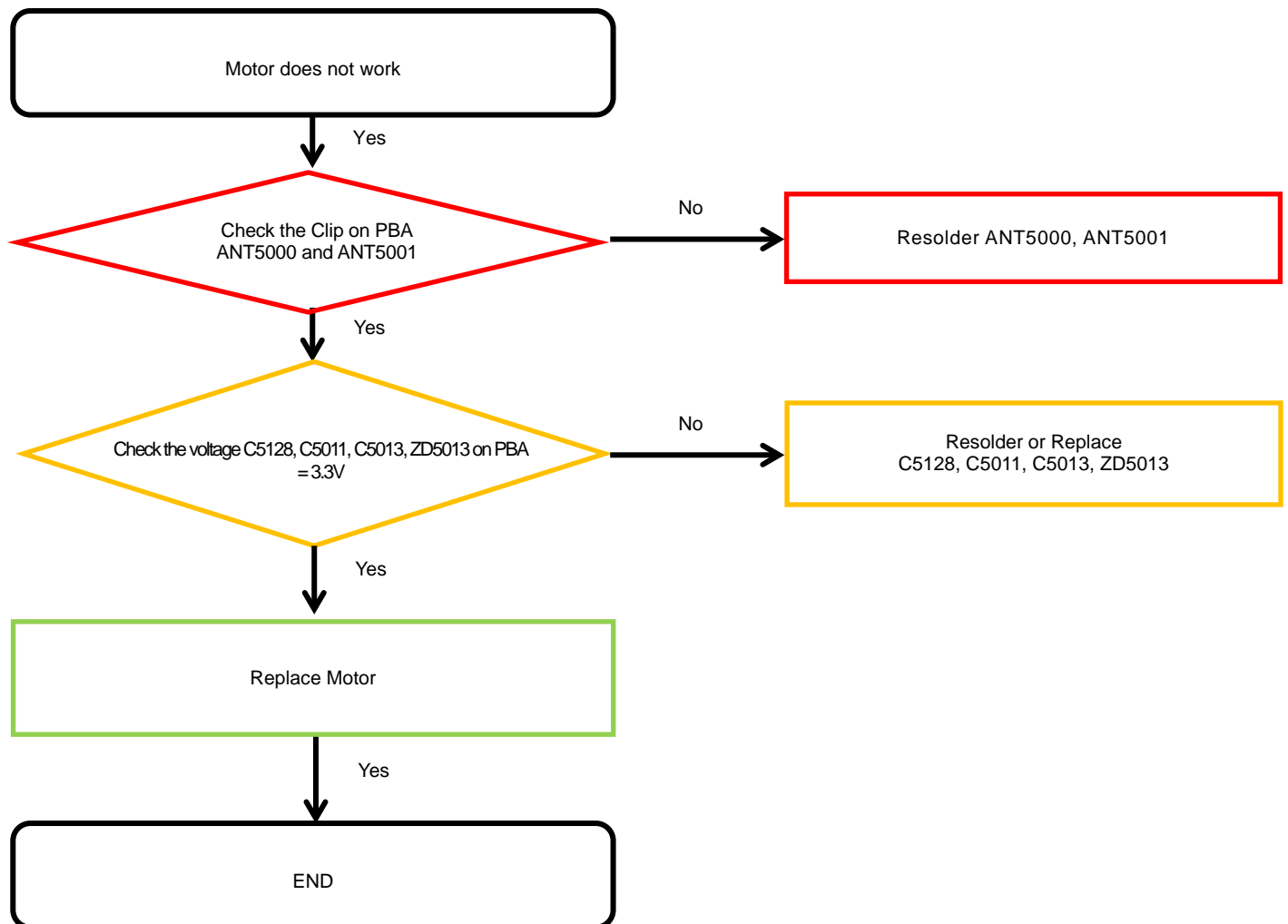


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## 8. Level 3 Repair

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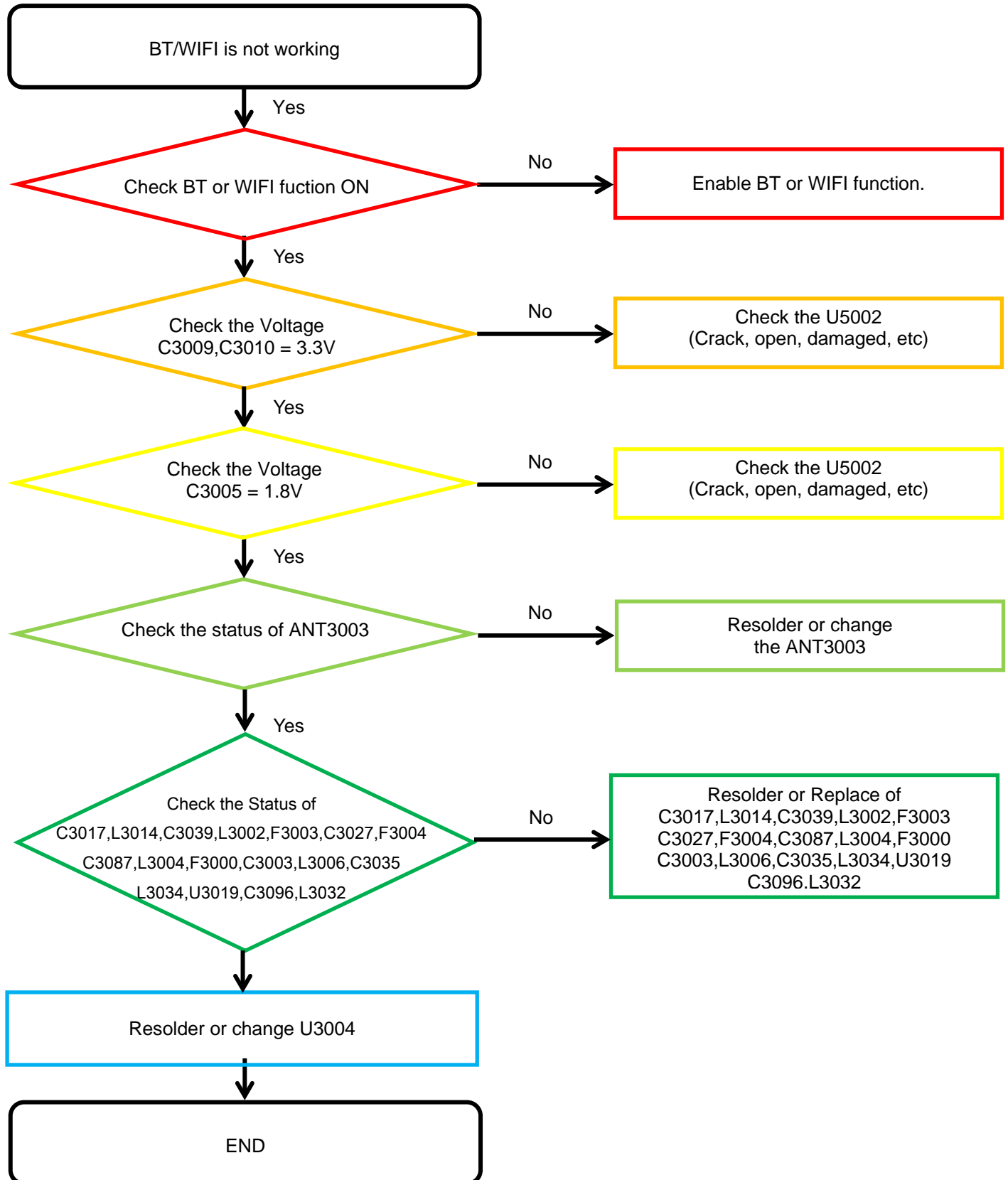
### 8-4-15. Motor





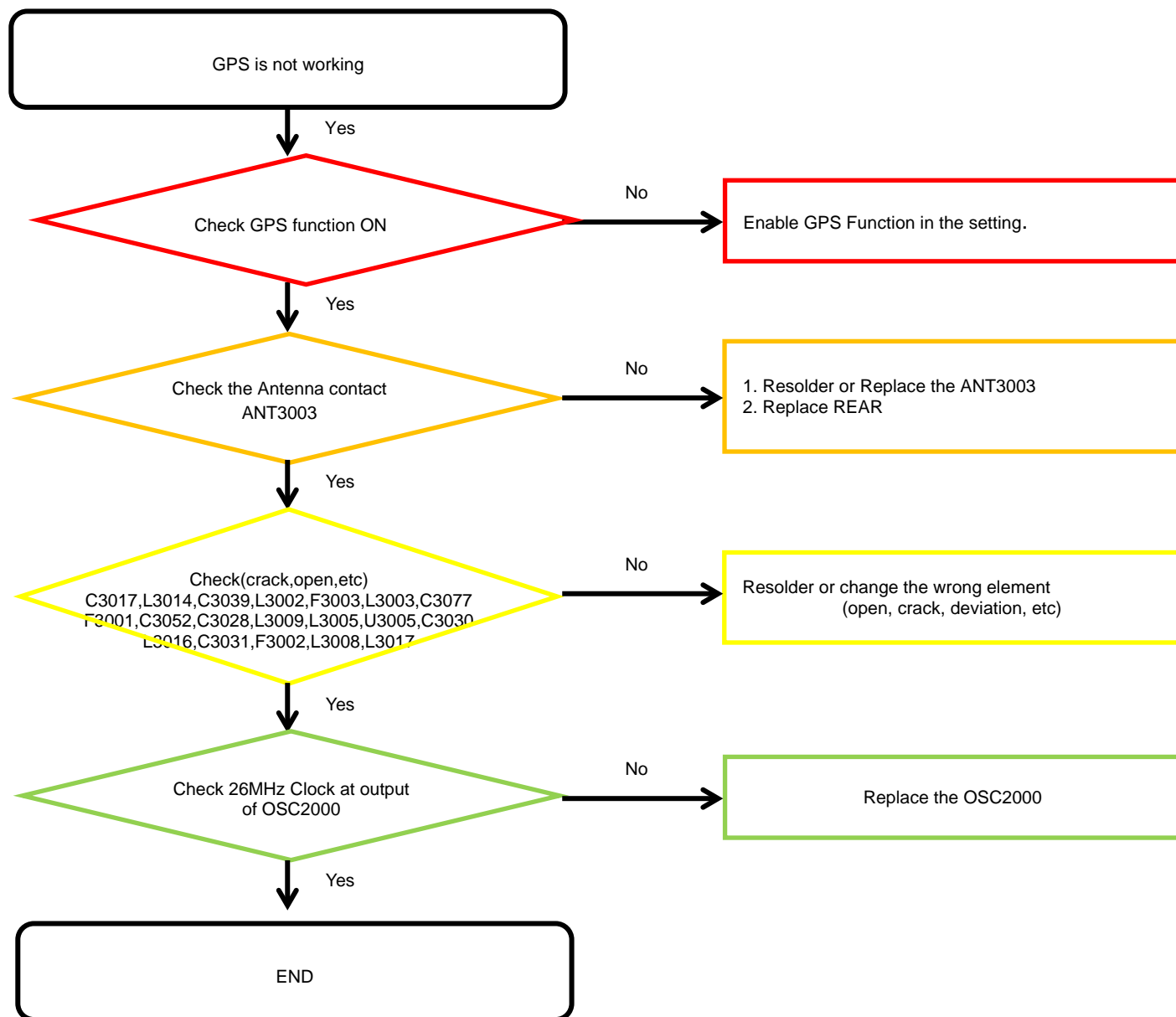
## 8. Level 3 Repair

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



## 8. Level 3 Repair

### 8-4-17. GPS

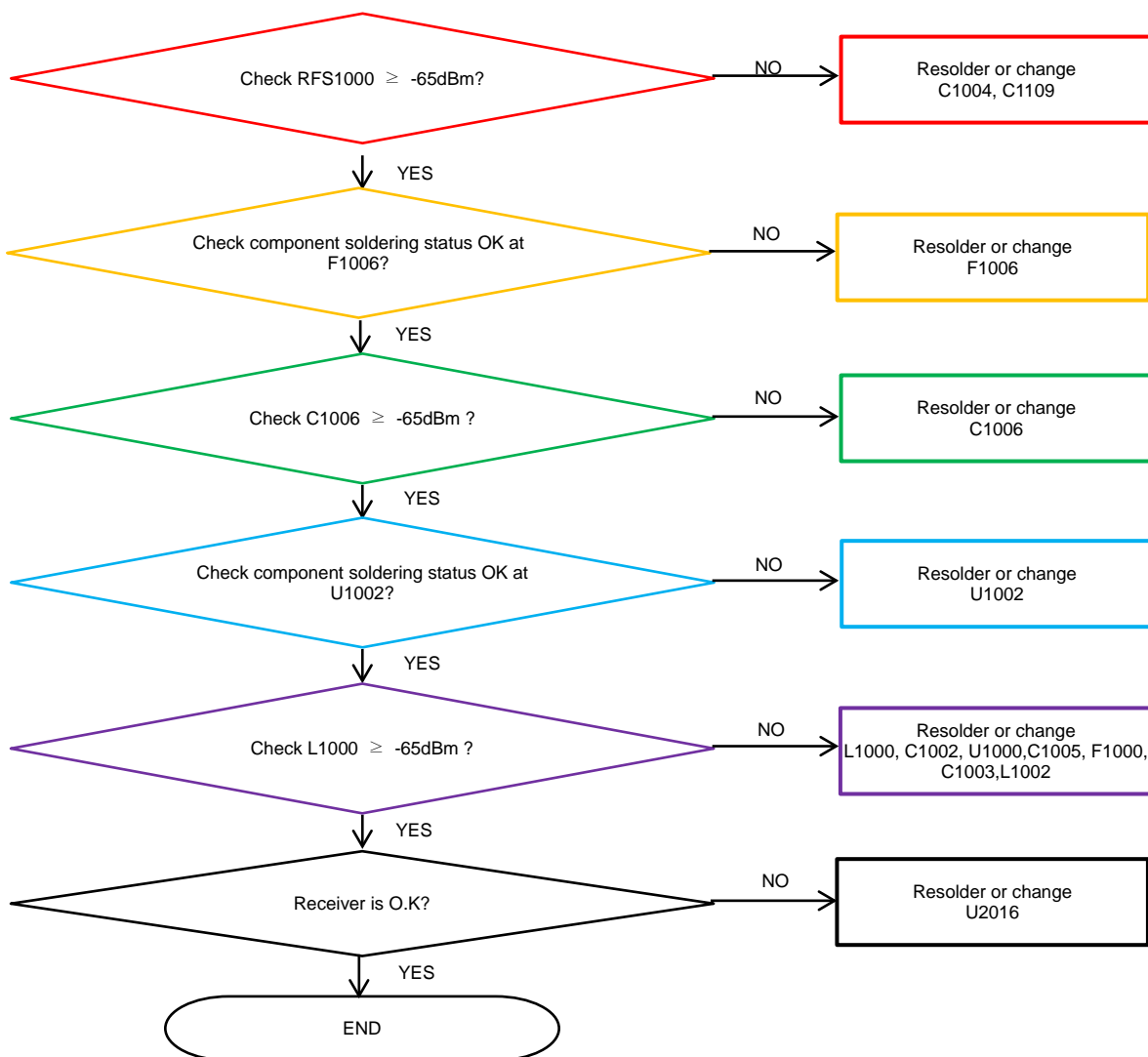


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## 8. Level 3 Repair

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### 8-4-18. LTE B1, WCDMA B1 Rx

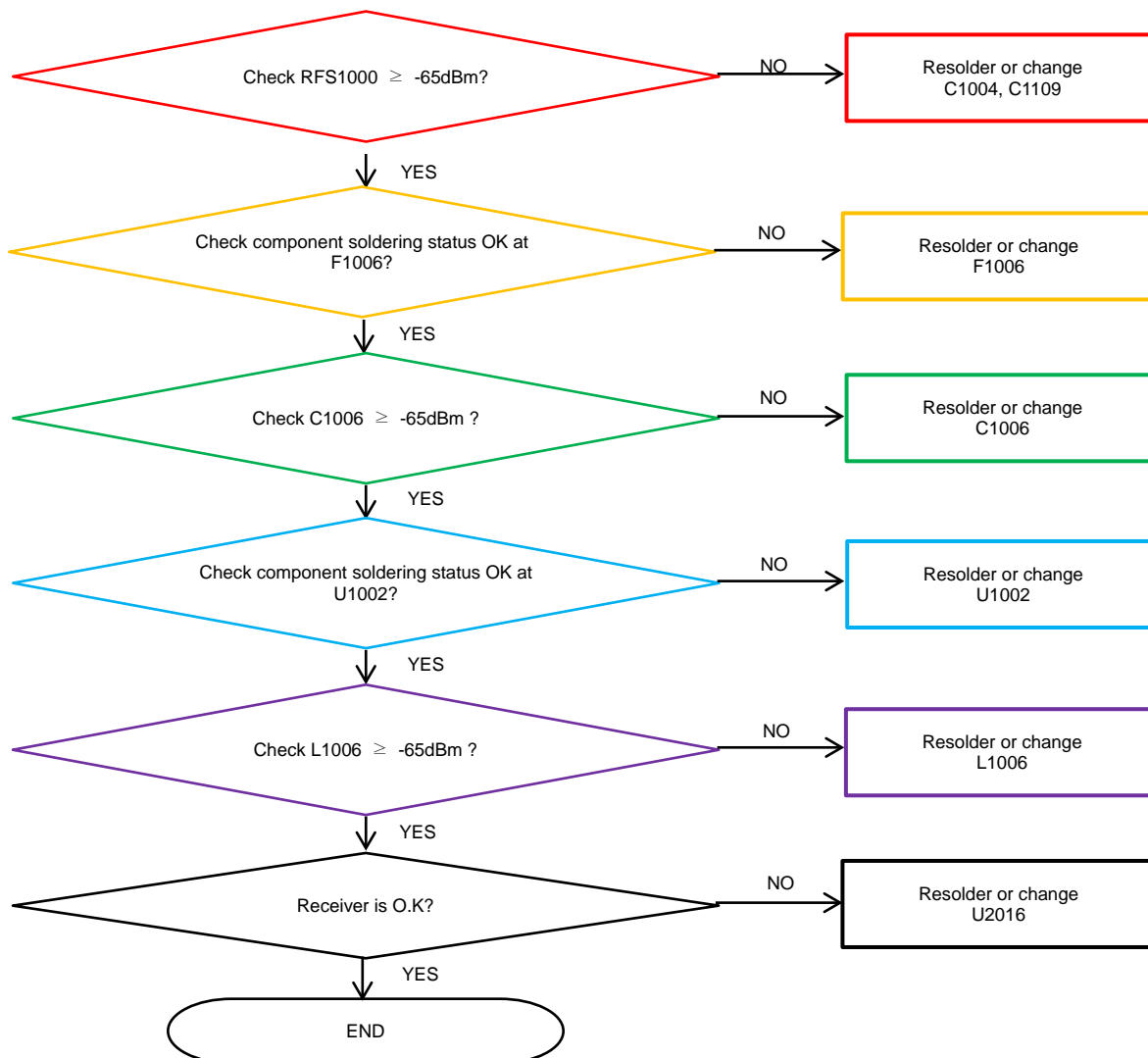


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## 8. Level 3 Repair

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### 8-4-19. WCDMA B2 / PCS RX

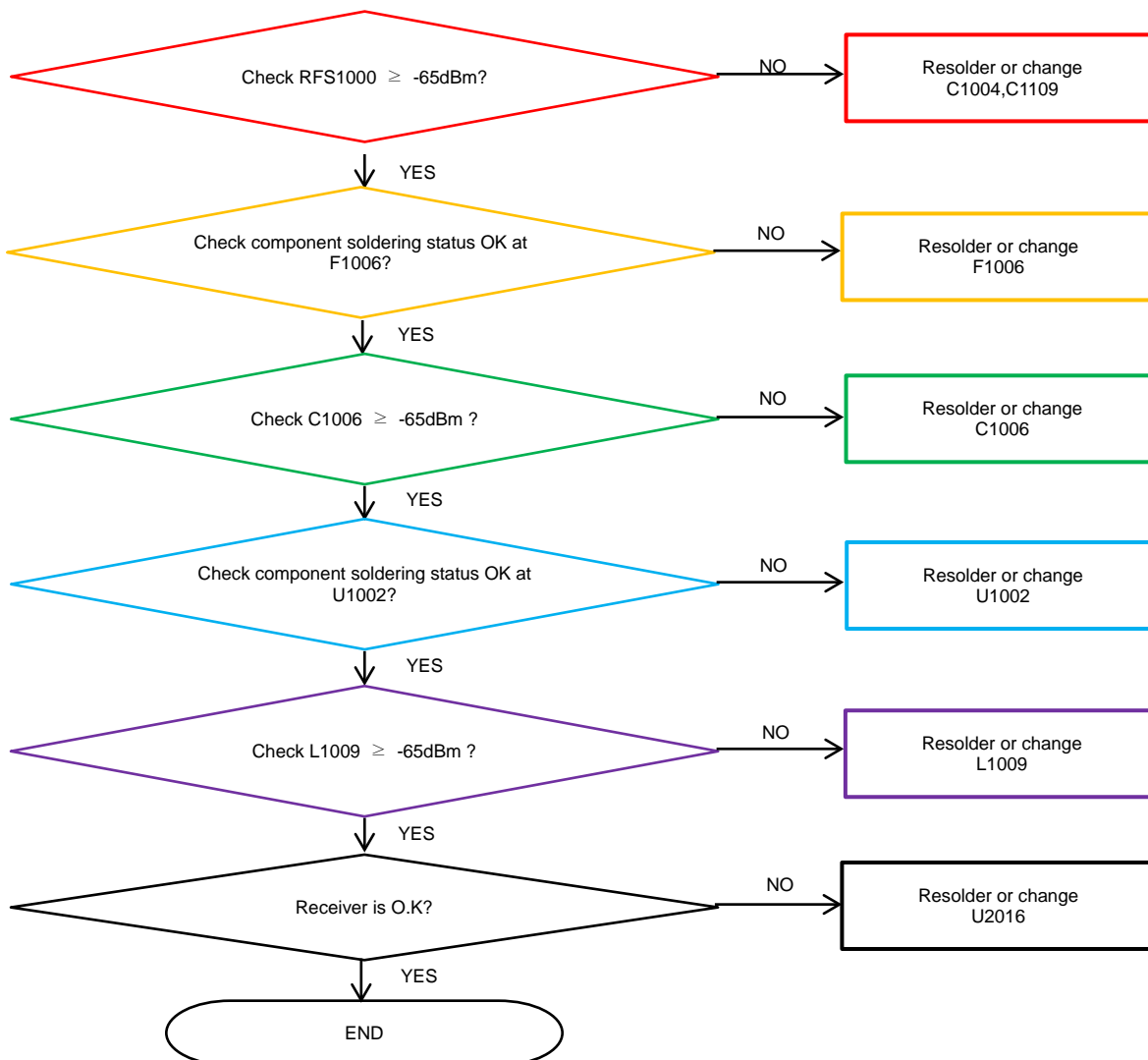


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## 8. Level 3 Repair

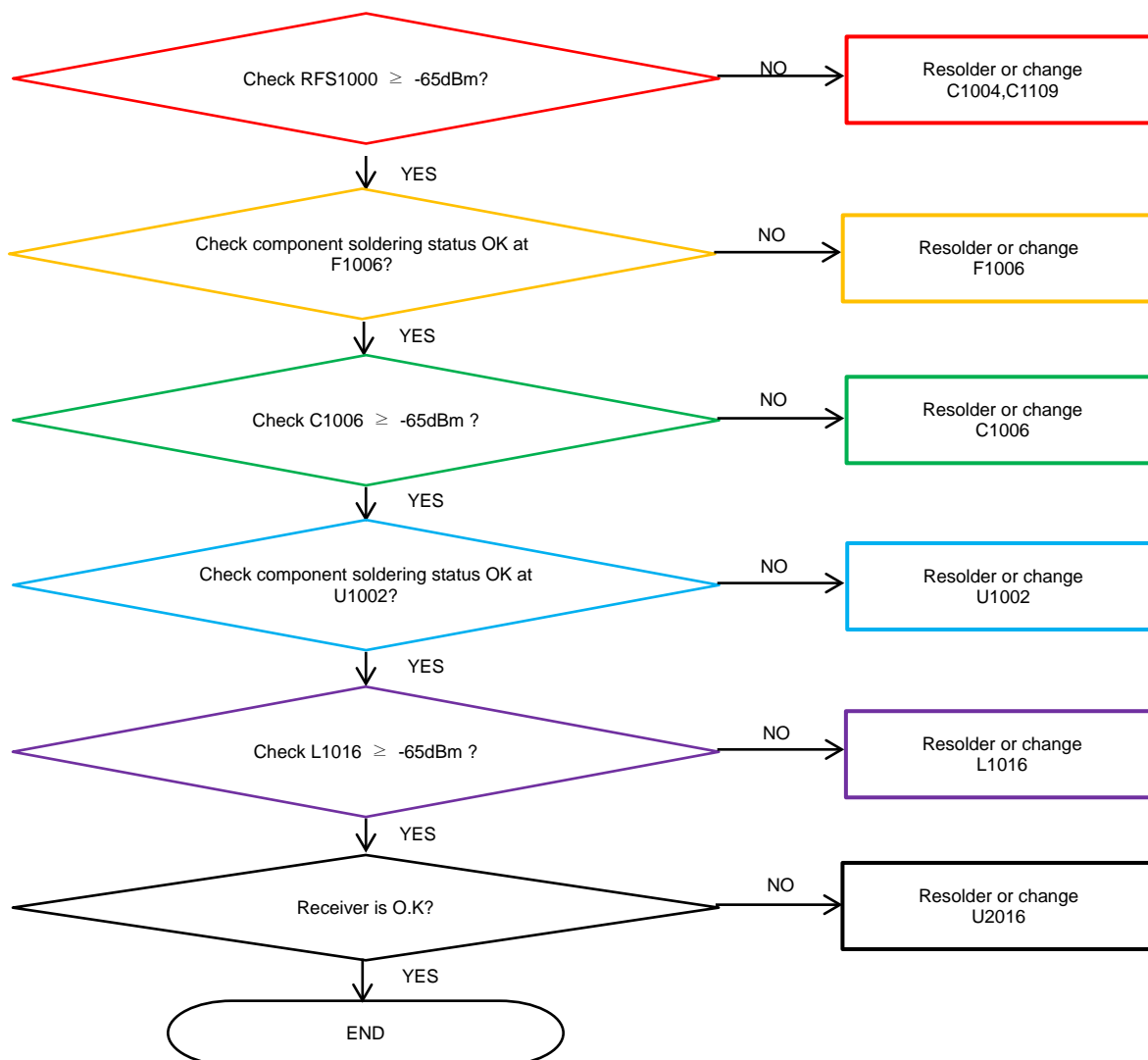
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### 8-4-20. LTE B3 / DCS RX



## 8. Level 3 Repair

### 8-4-21. LTE, WCDMA B5 / GSM850 RX

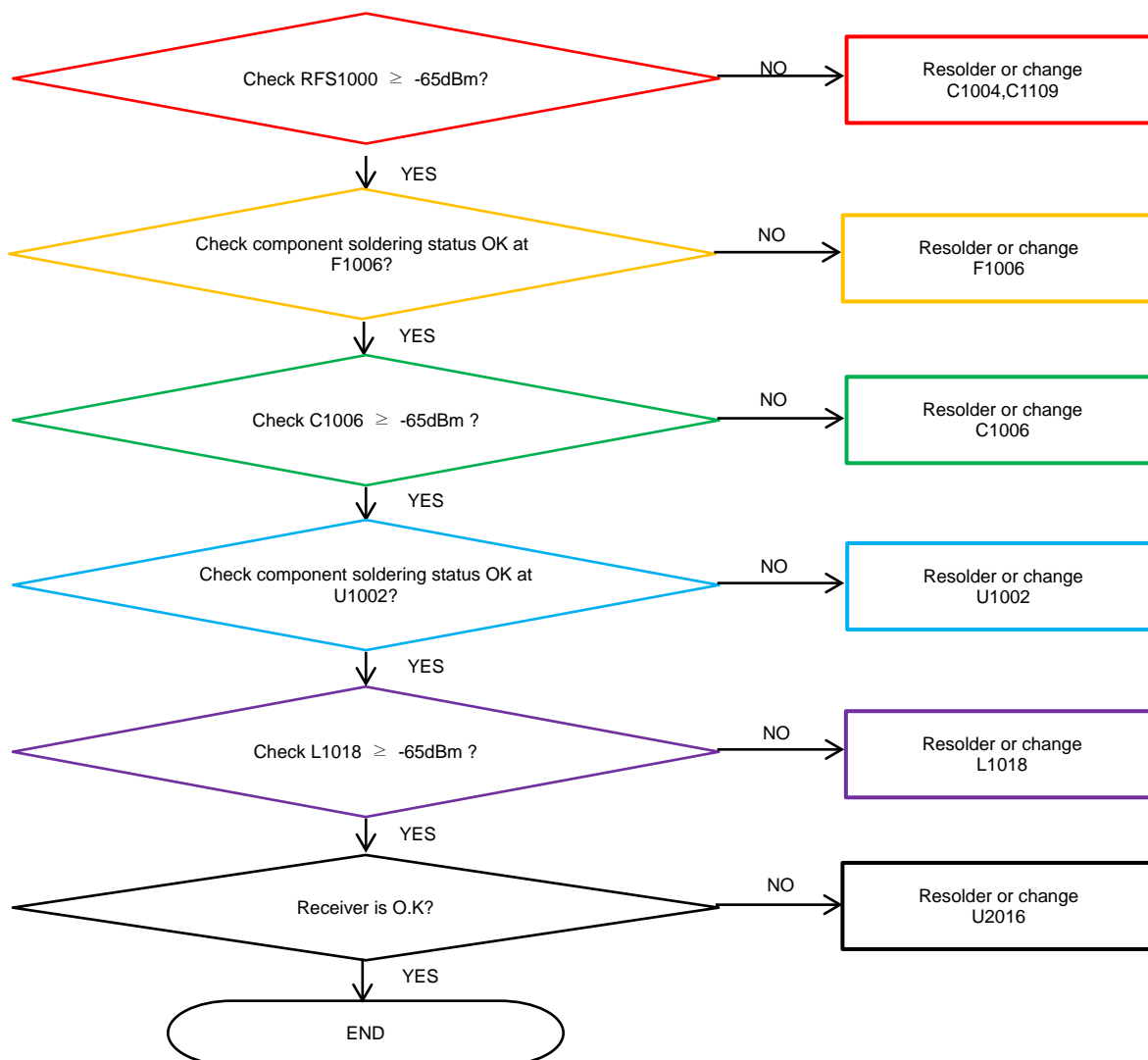


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## 8. Level 3 Repair

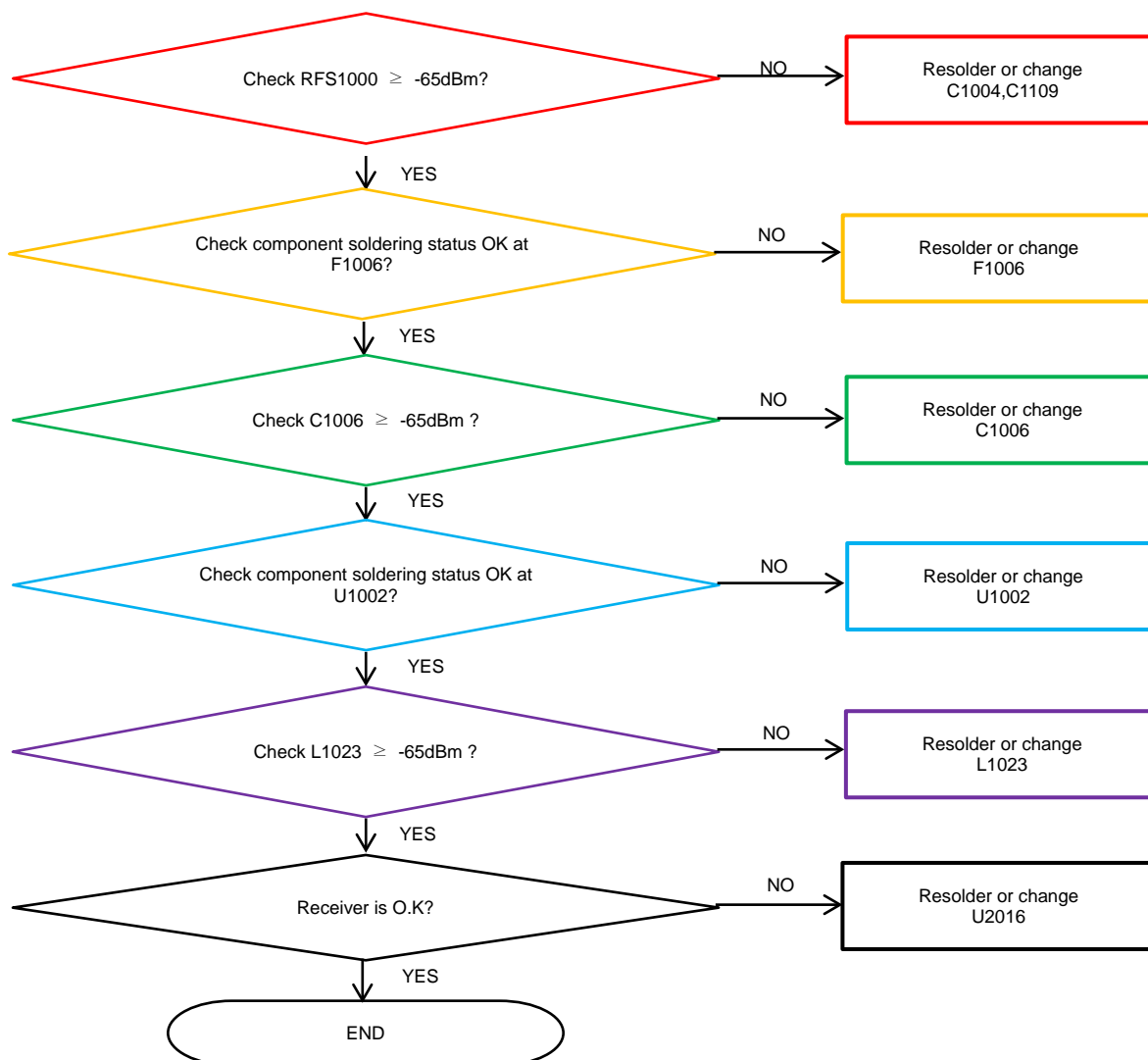
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### 8-4-22. LTE, WCDMA B8 / EGSM RX



## 8. Level 3 Repair

### 8-4-23. LTE B20 RX [SM-M305F]



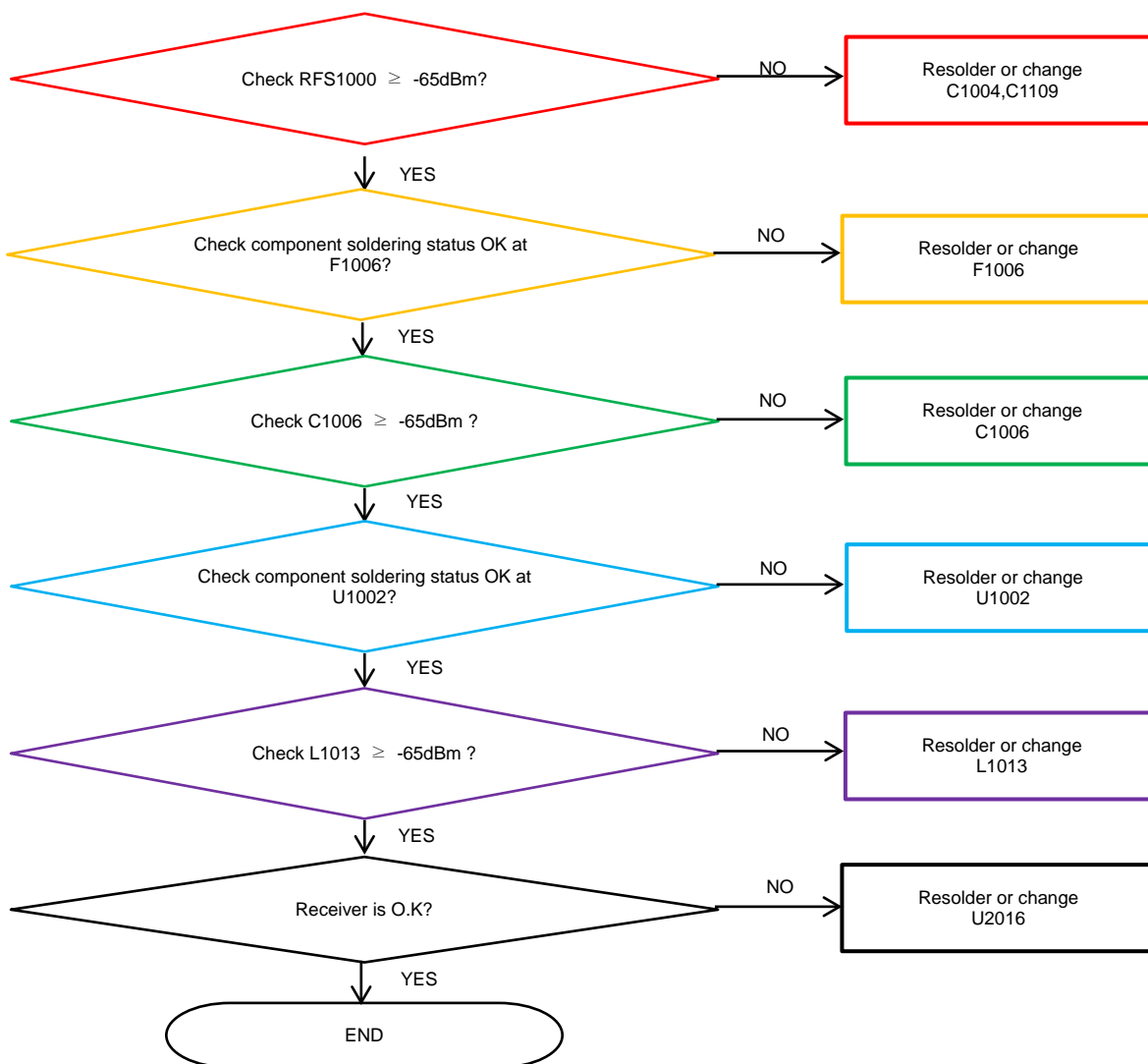


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## 8. Level 3 Repair

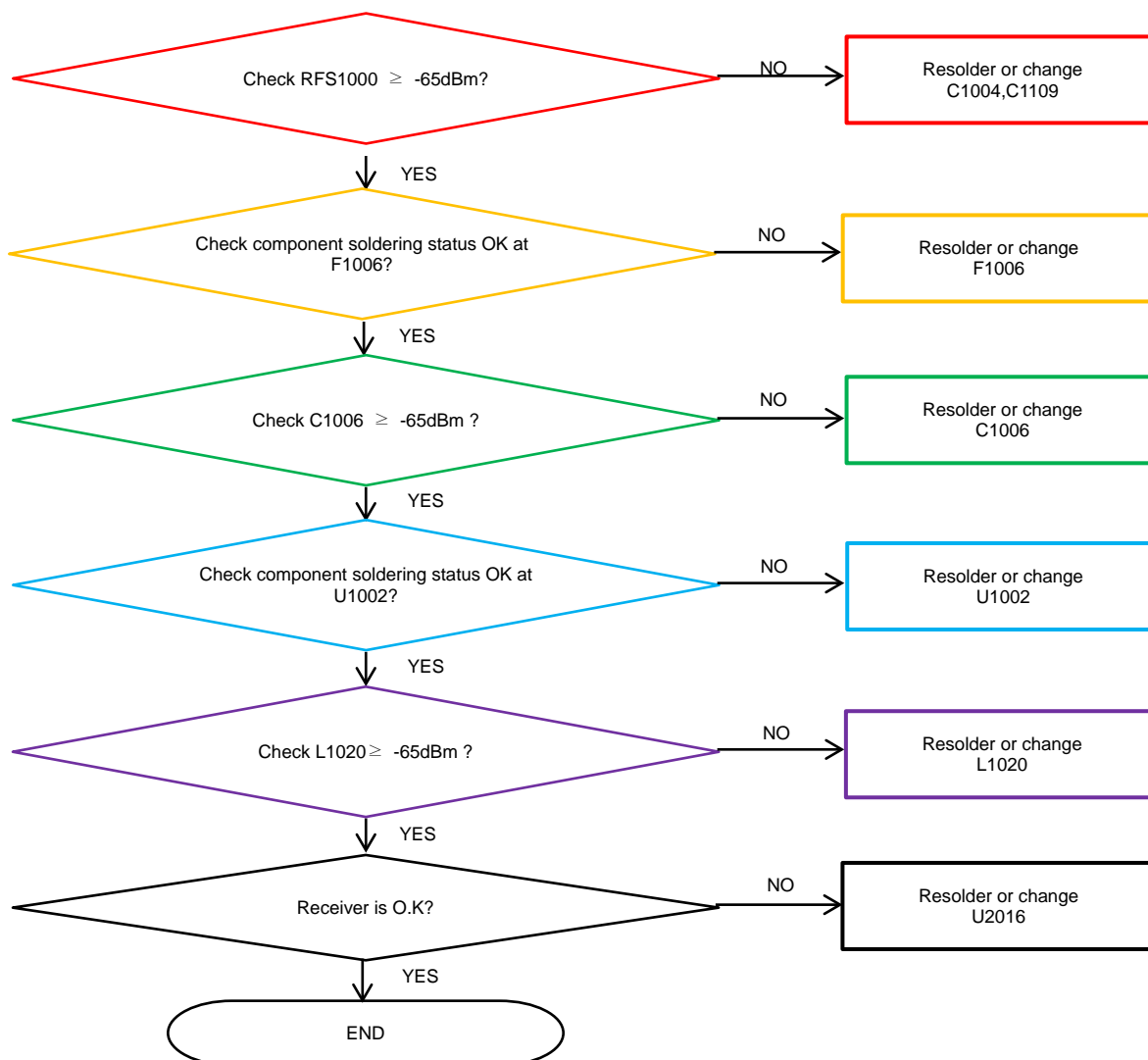
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### 8-4-24. LTE B4, B66 RX [SM-M305M]



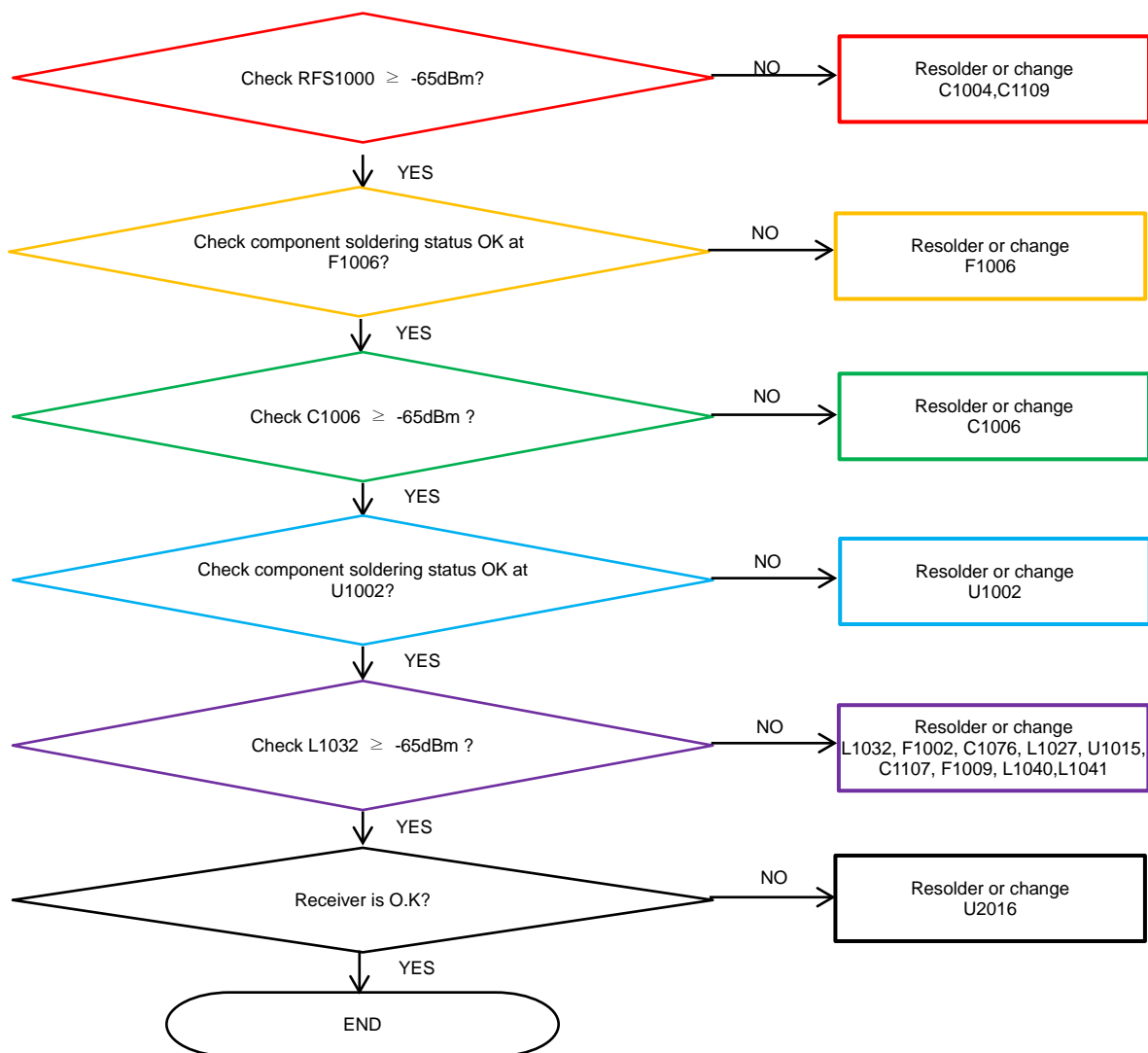
## 8. Level 3 Repair

### 8-4-25 LTE B12, B17 RX [SM-M305M]



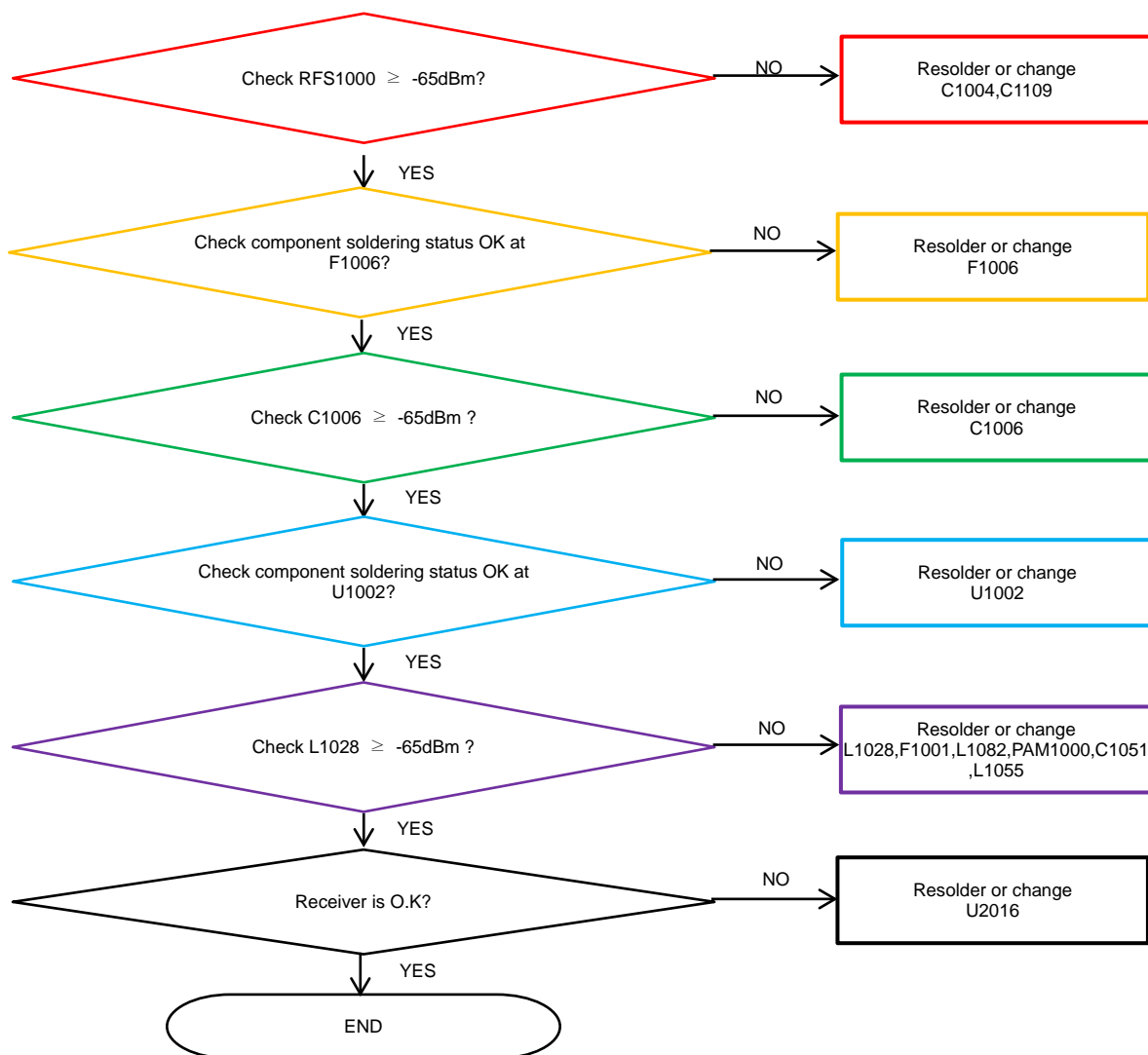
## 8. Level 3 Repair

### 8-4-26 LTE B7 RX [SM-M305M]



## 8. Level 3 Repair

### 8-4-27. LTE B38, B41 RX (B38 [SM-M305M])

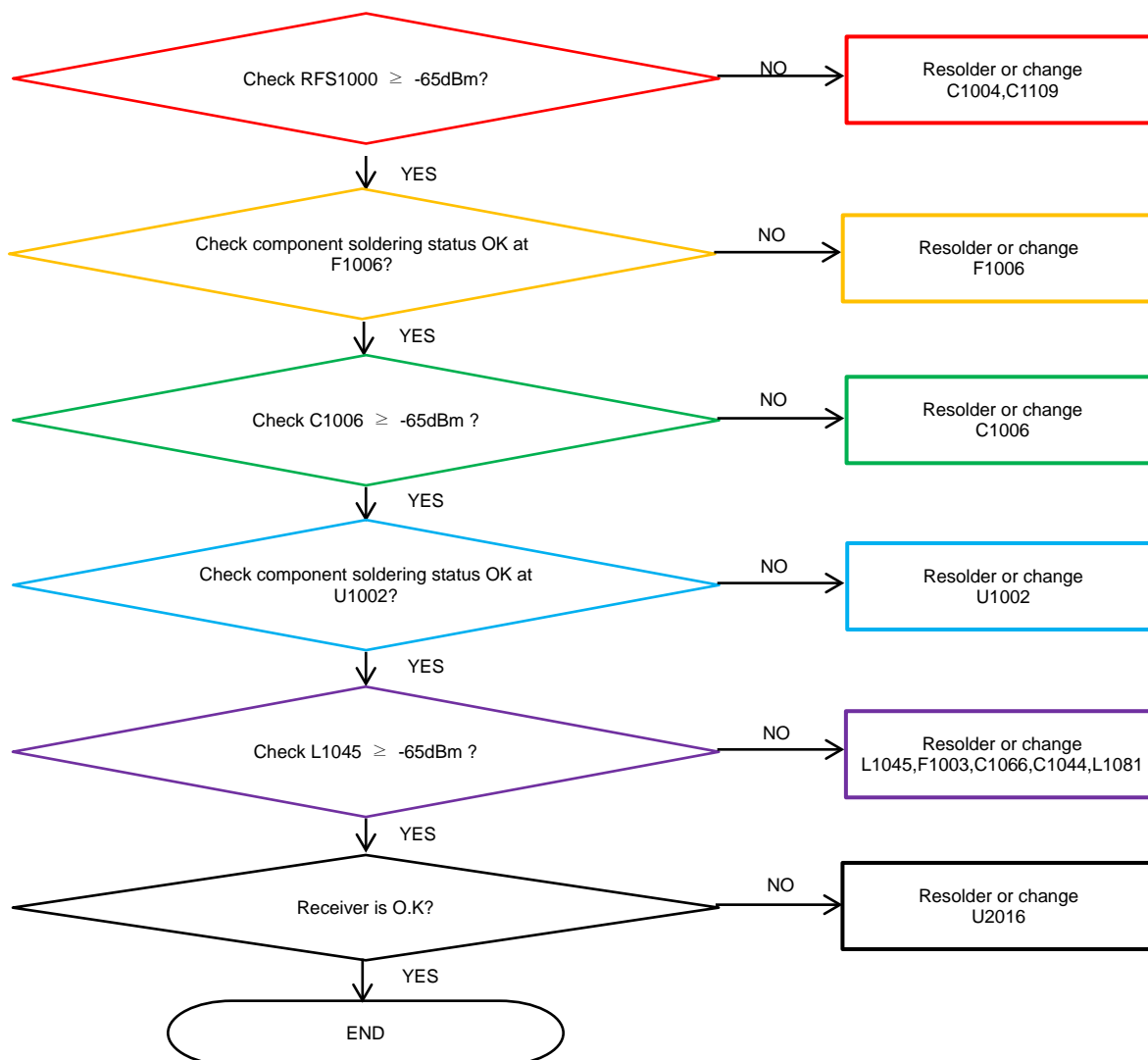


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## 8. Level 3 Repair

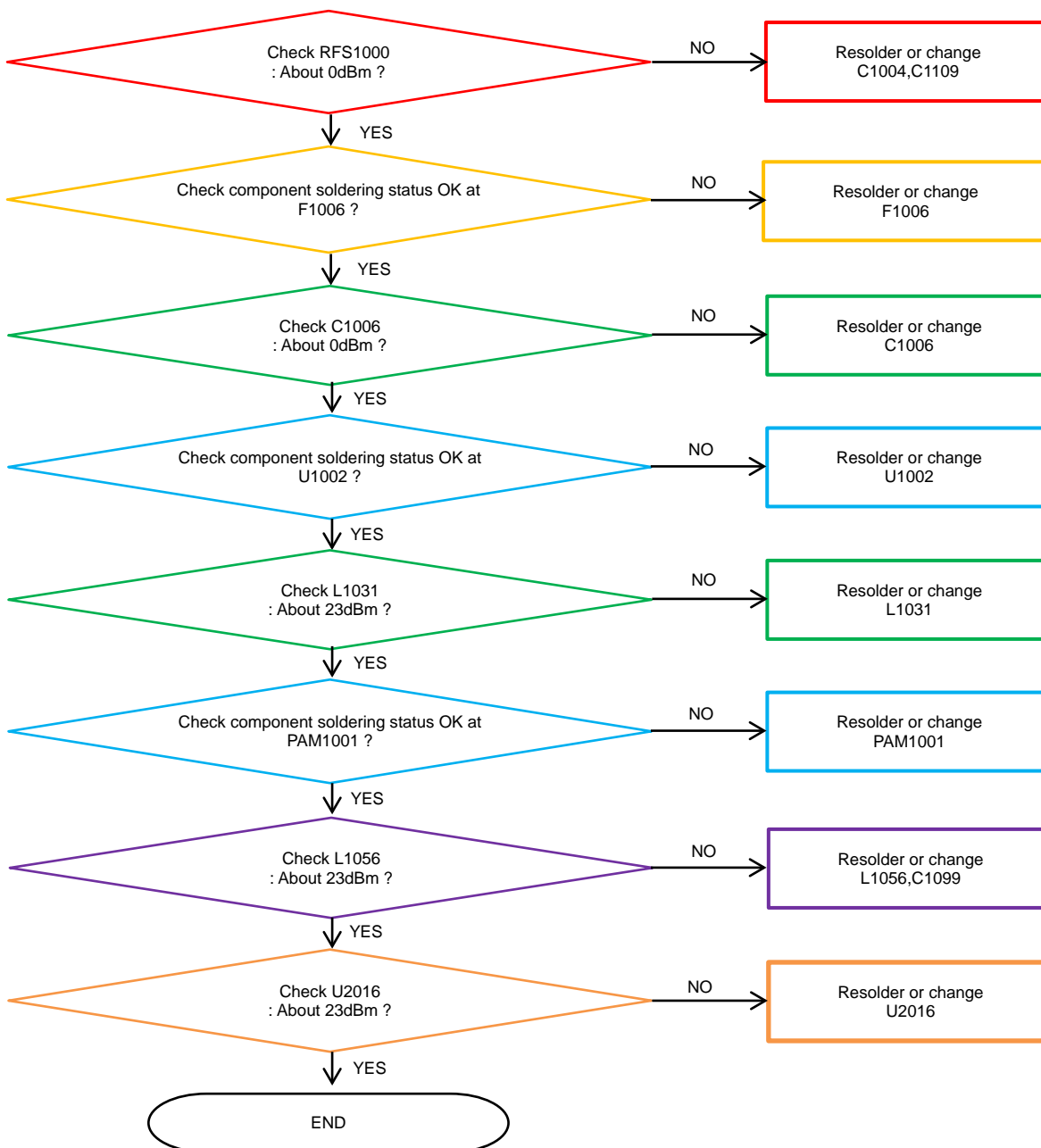
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### 8-4-28. LTE B40 RX



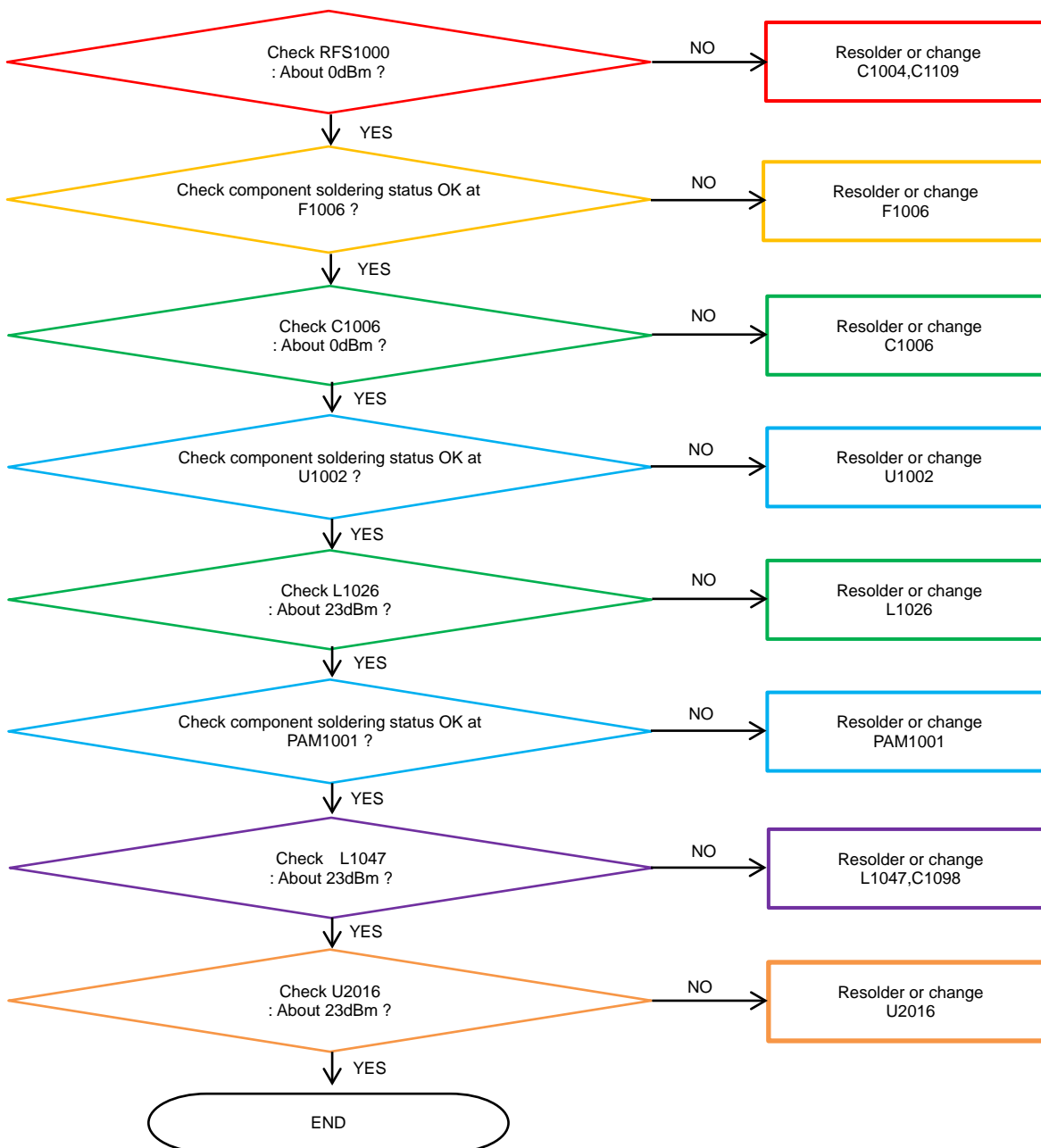
## 8. Level 3 Repair

### 8-4-29. GSM 850 / GSM900 TX



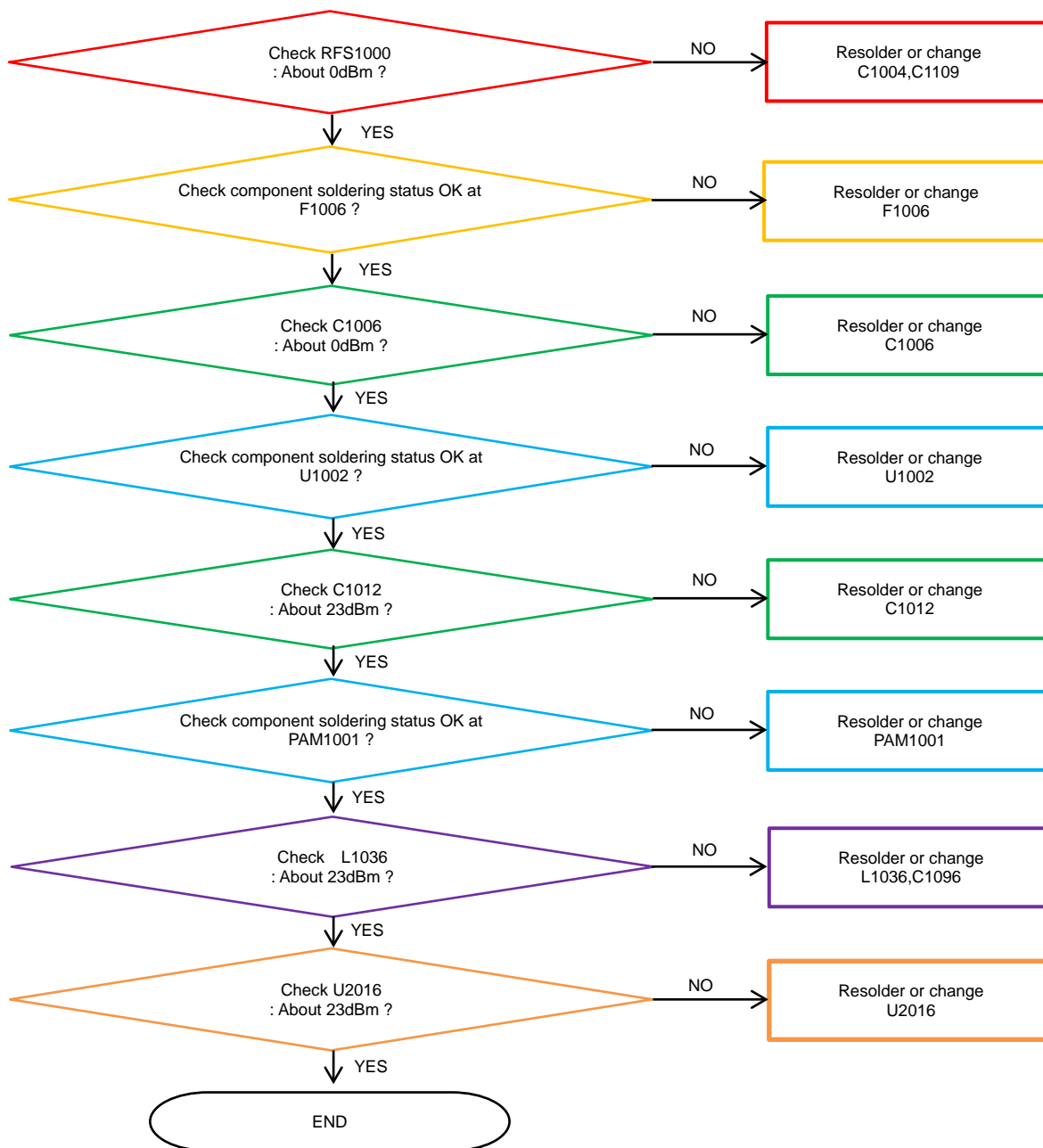
## 8. Level 3 Repair

### 8-4-30. GSM1800/ GSM1900 TX



## 8. Level 3 Repair

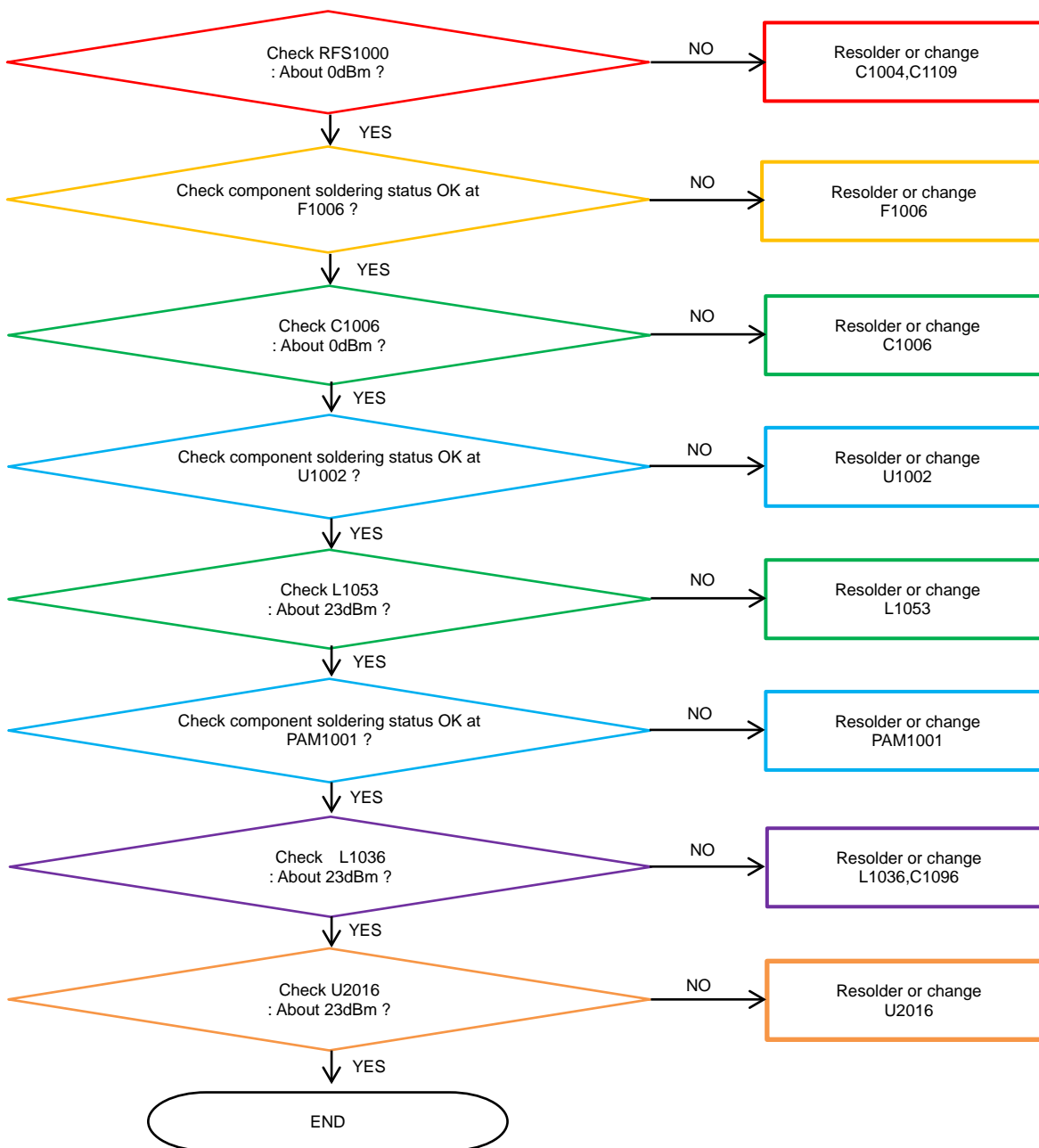
### 8-4-31. LTE, WCDMA B1 TX





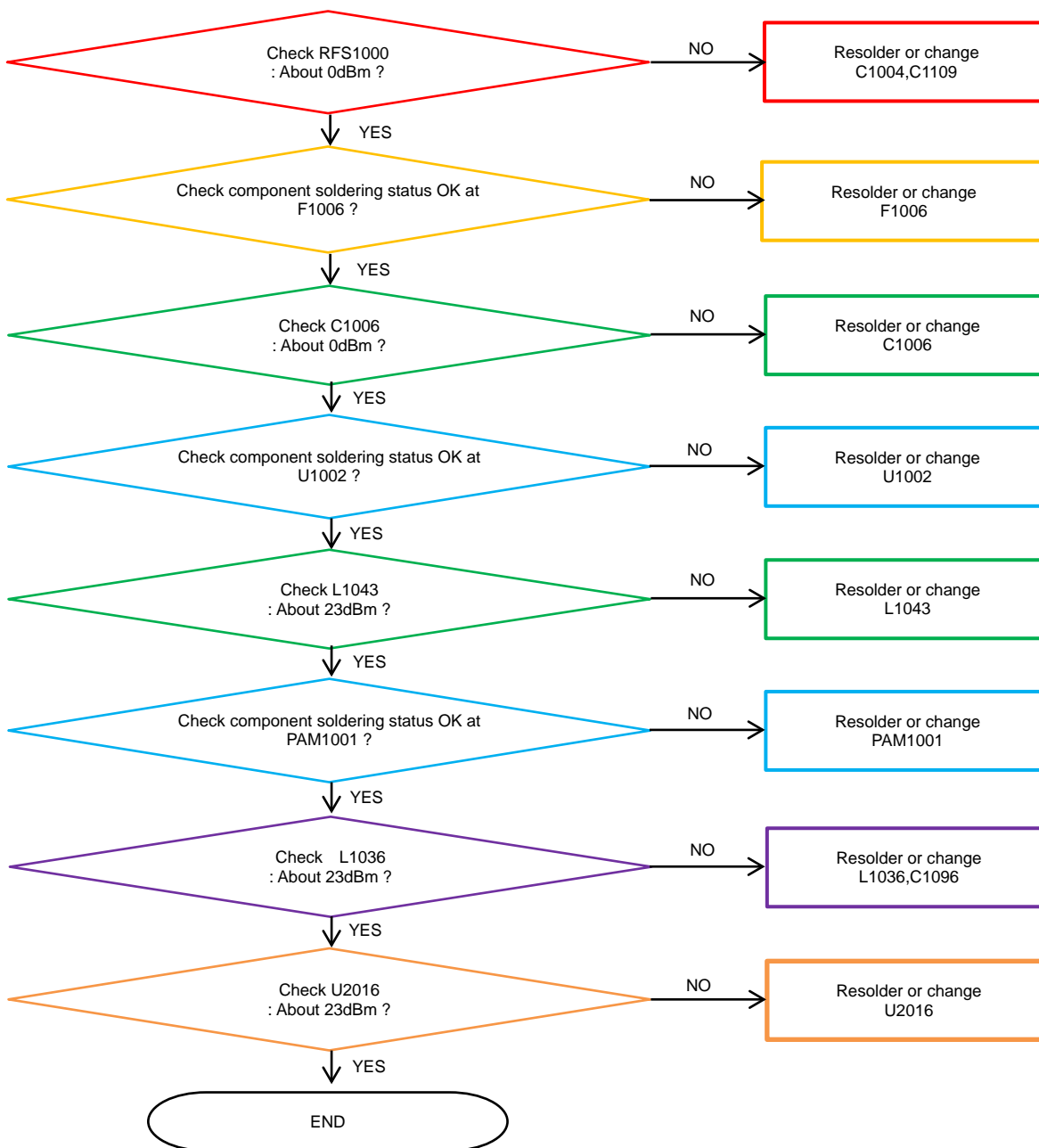
## 8. Level 3 Repair

### 8-4-32. WCDMA B2 TX, LTEB2 TX[SM-M305M]



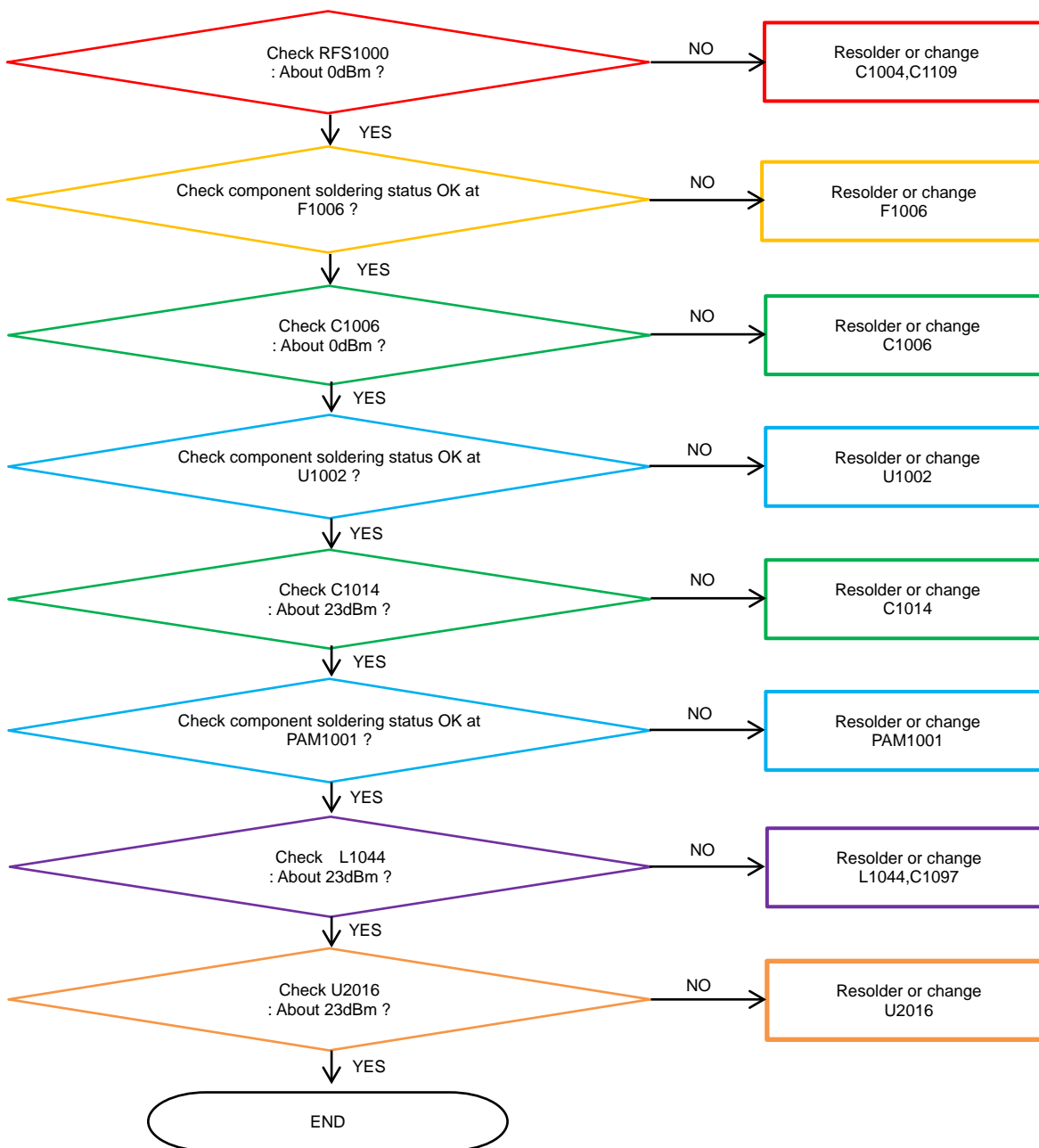
## 8. Level 3 Repair

### 8-4-33. LTE B3 TX



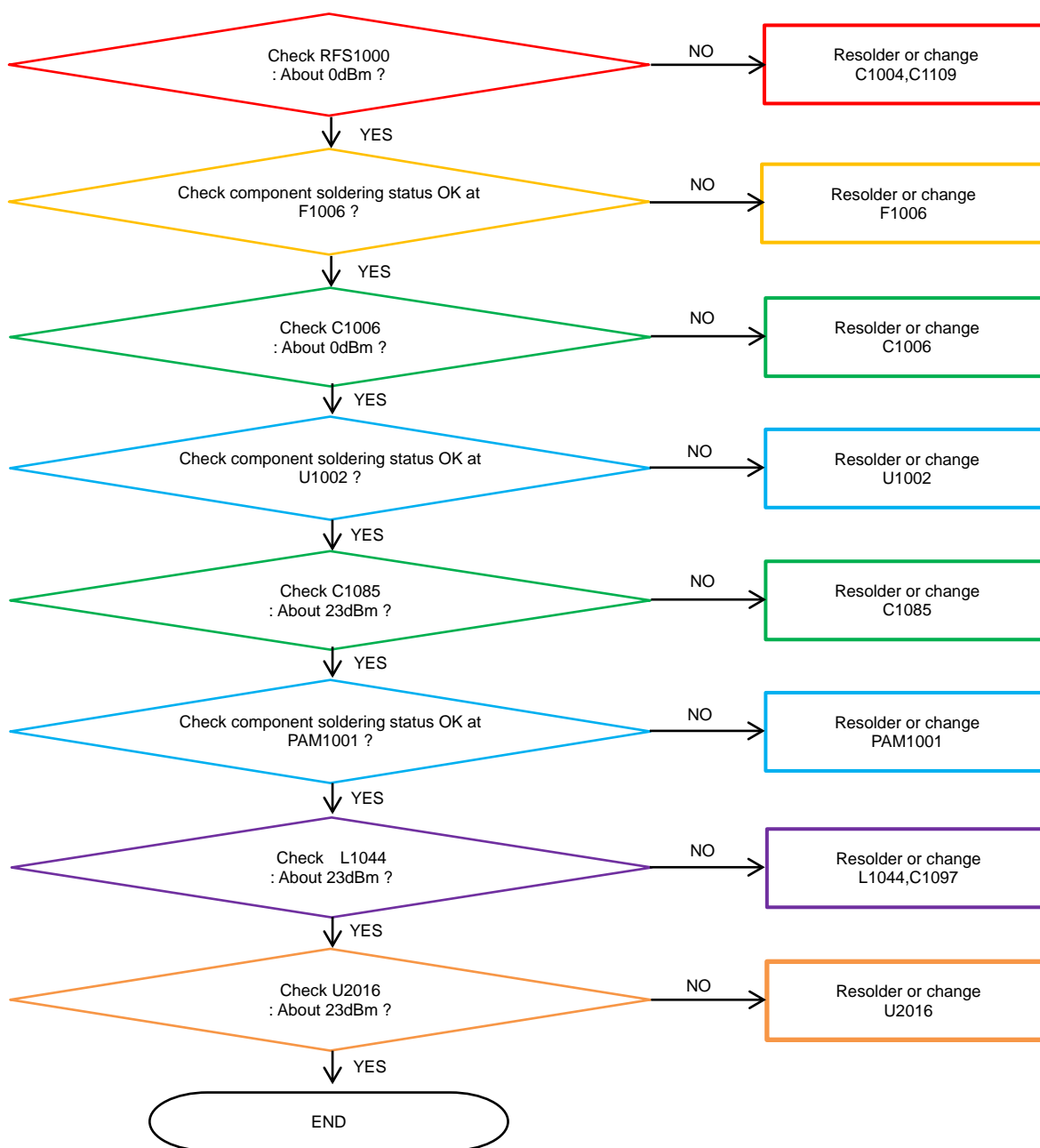
## 8. Level 3 Repair

### 8-4-34. LTE, WCDMA B5 TX



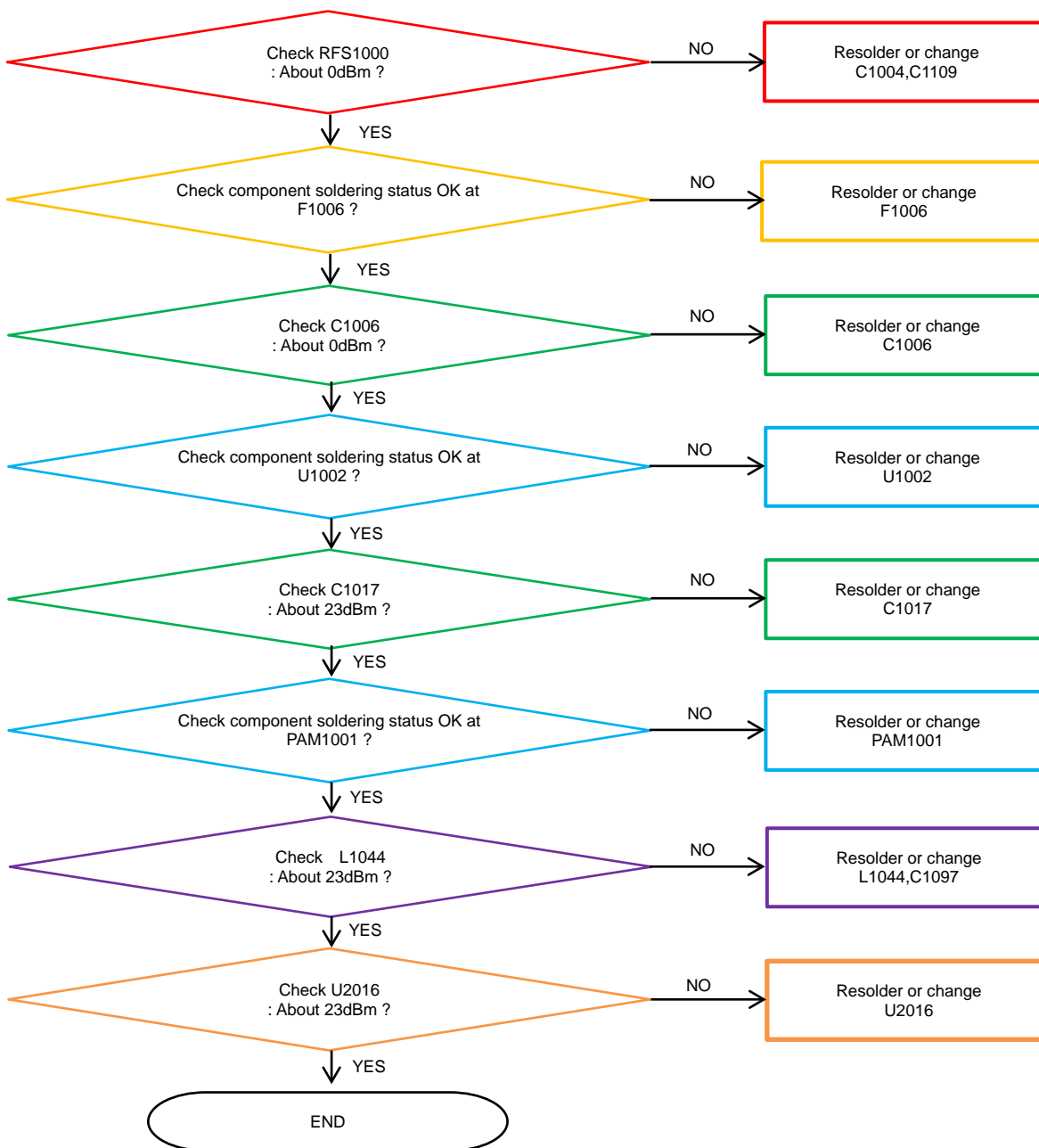
## 8. Level 3 Repair

### 8-4-35. LTE, WCDMA B8 TX



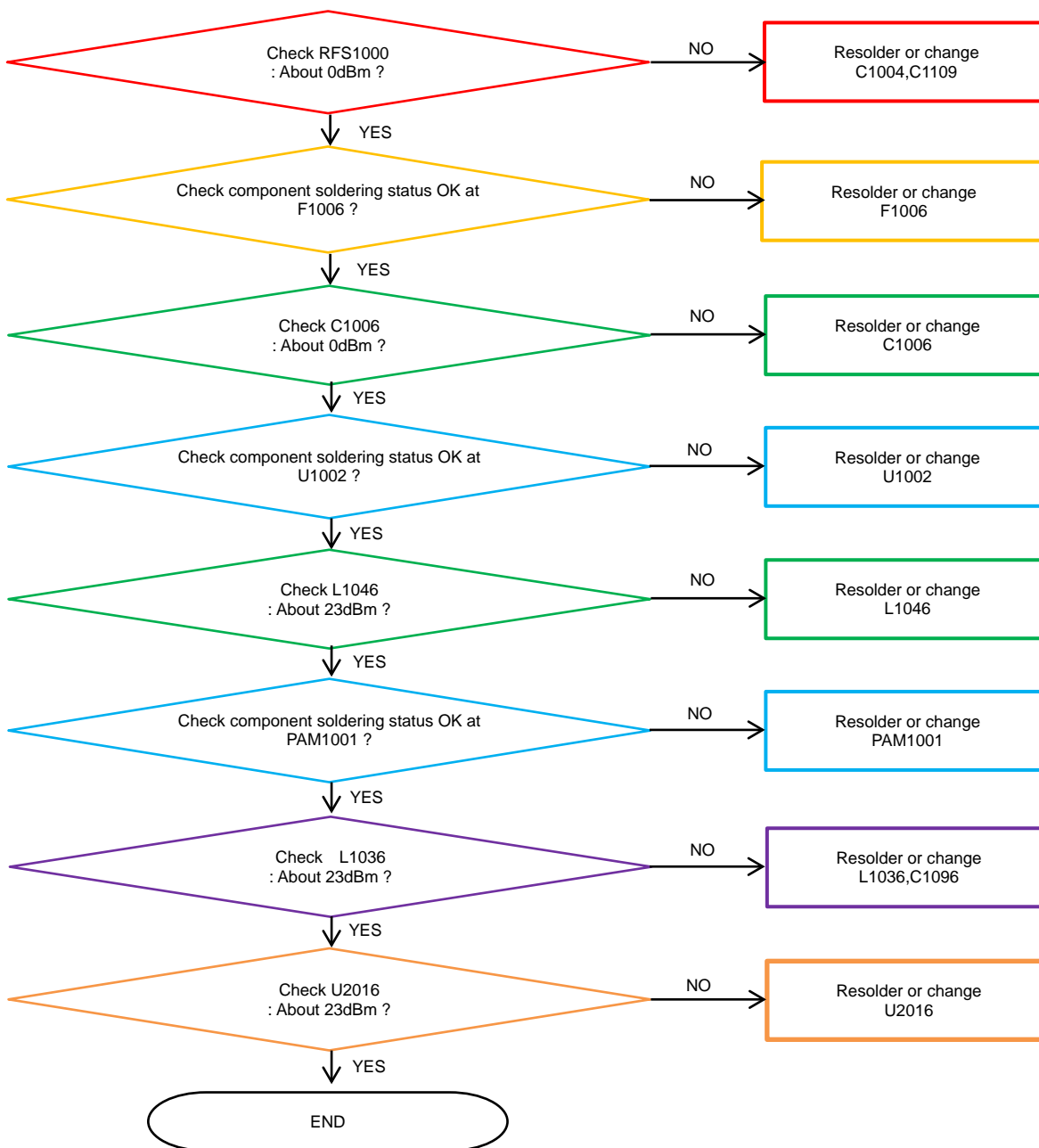
## 8. Level 3 Repair

### 8-4-36. LTE B20 TX [SM-M305M]



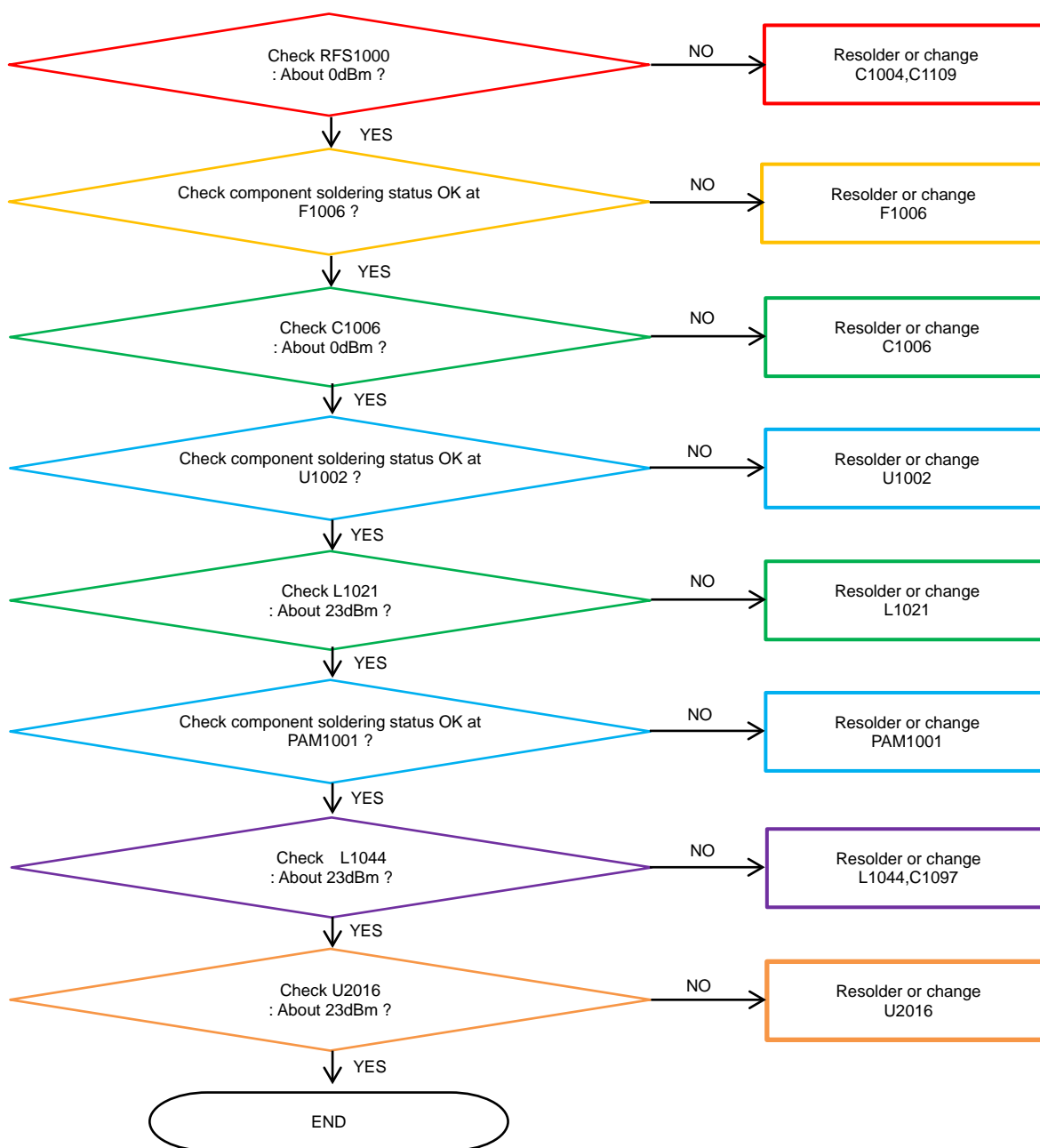
## 8. Level 3 Repair

### 8-4-37. LTE B4, B66 TX [SM-M305M]



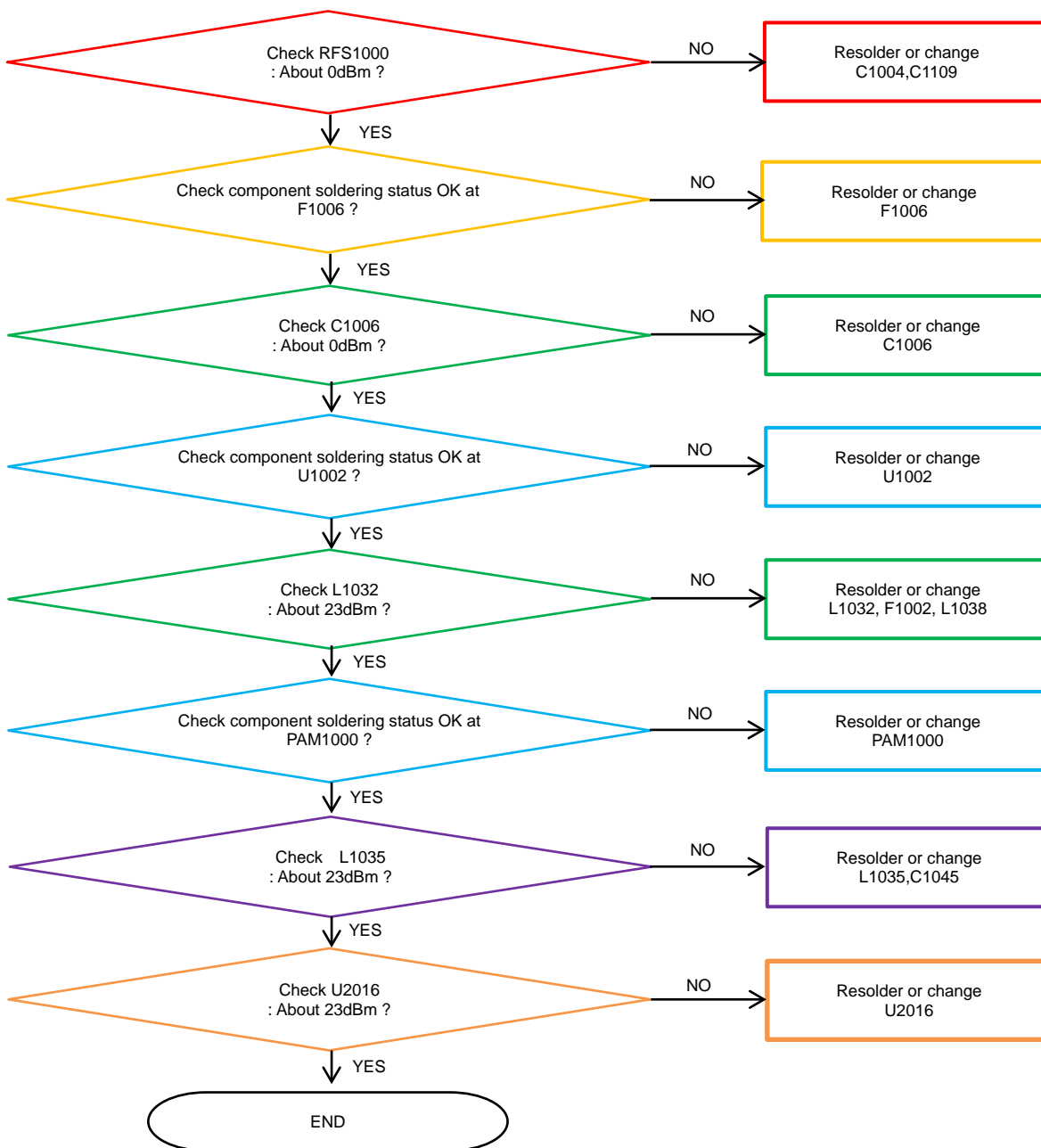
## 8. Level 3 Repair

### 8-4-38. LTE B12, B17 TX [SM-M305M]



## 8. Level 3 Repair

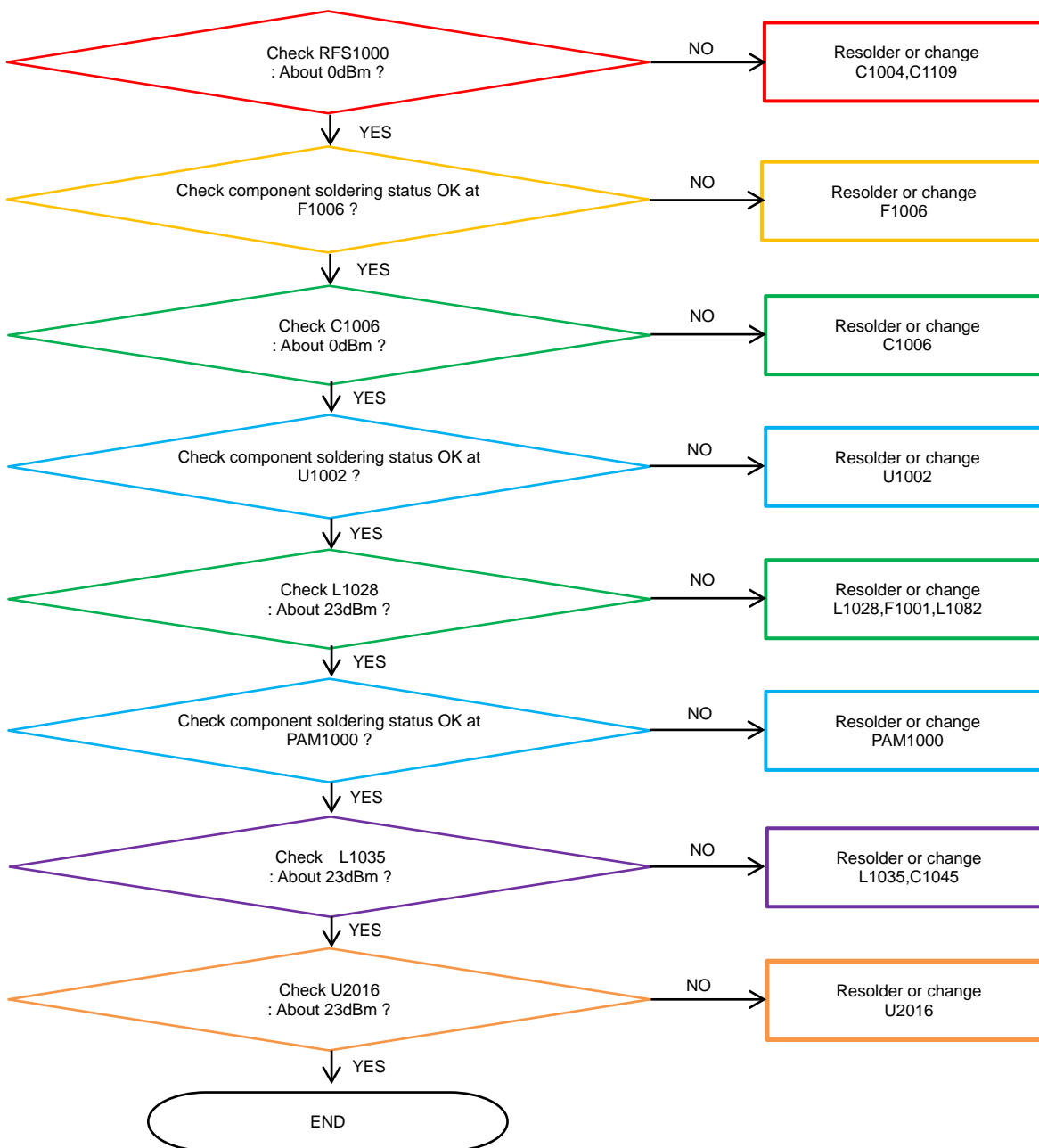
### 8-4-39. LTE B7 TX [SM-M305M]





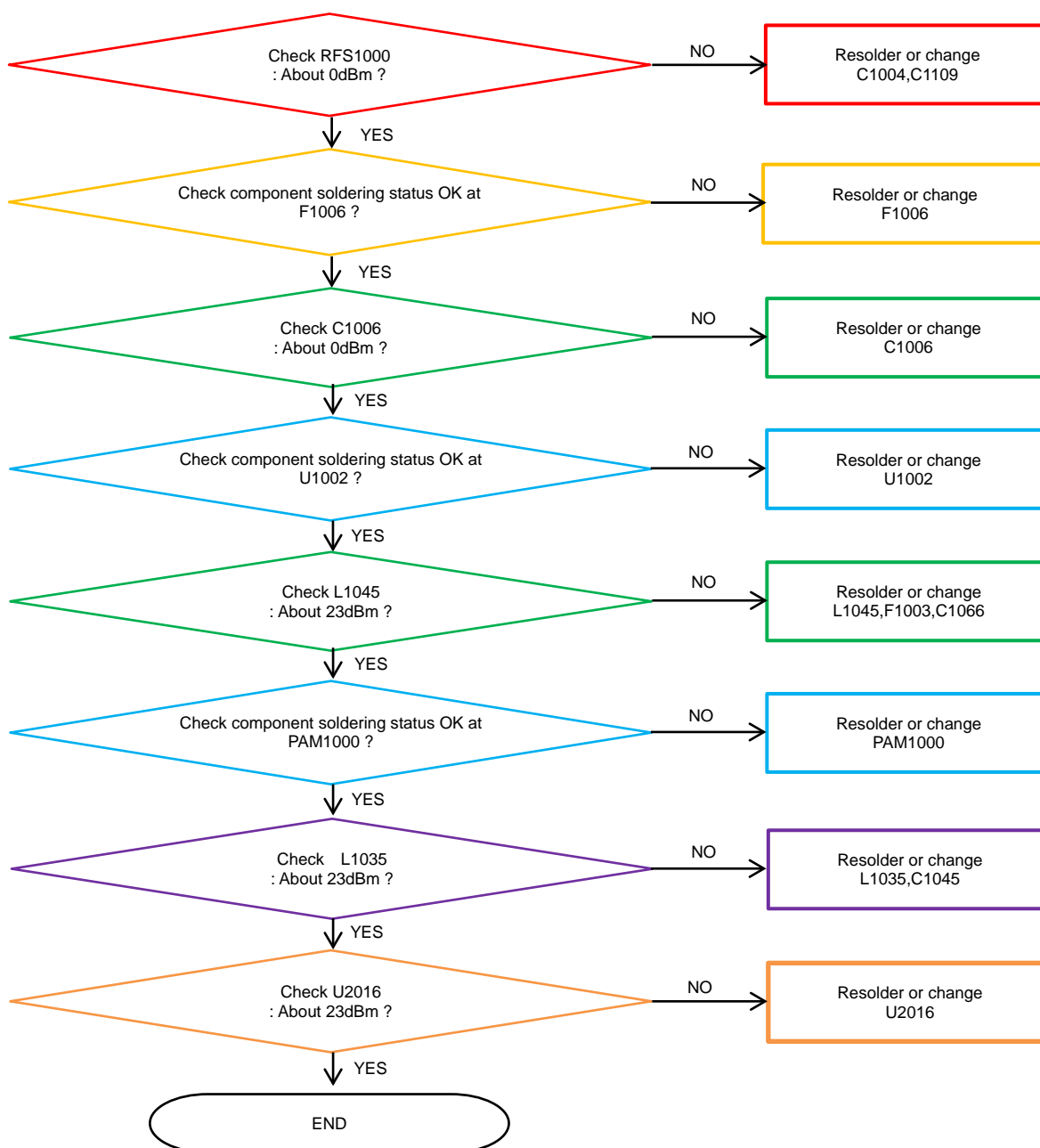
## 8. Level 3 Repair

### 8-4-40. LTE B38, B41 TX (B38 [SM-M305M])



## 8. Level 3 Repair

### 8-4-41. LTE B40 TX

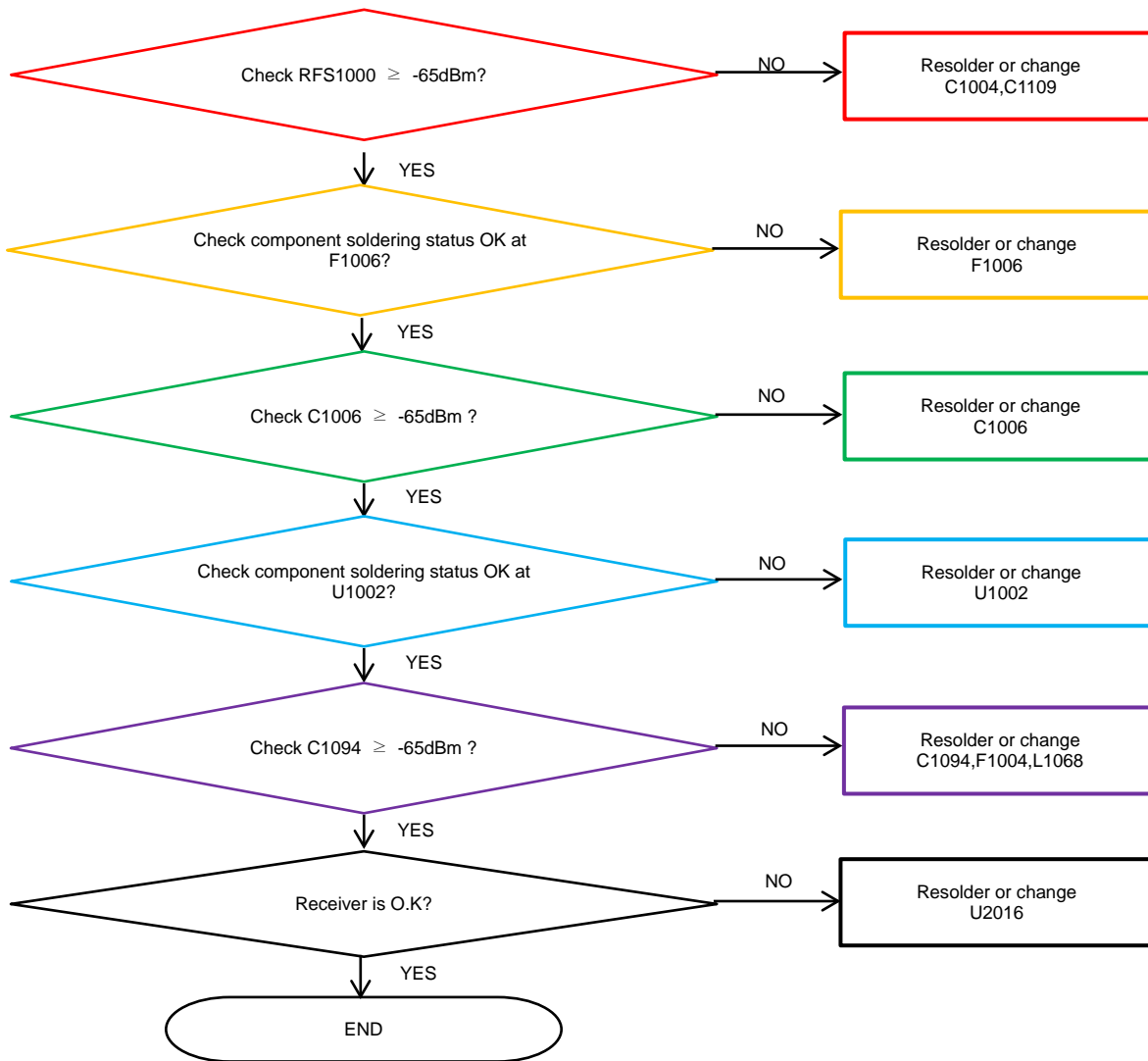


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## 8. Level 3 Repair

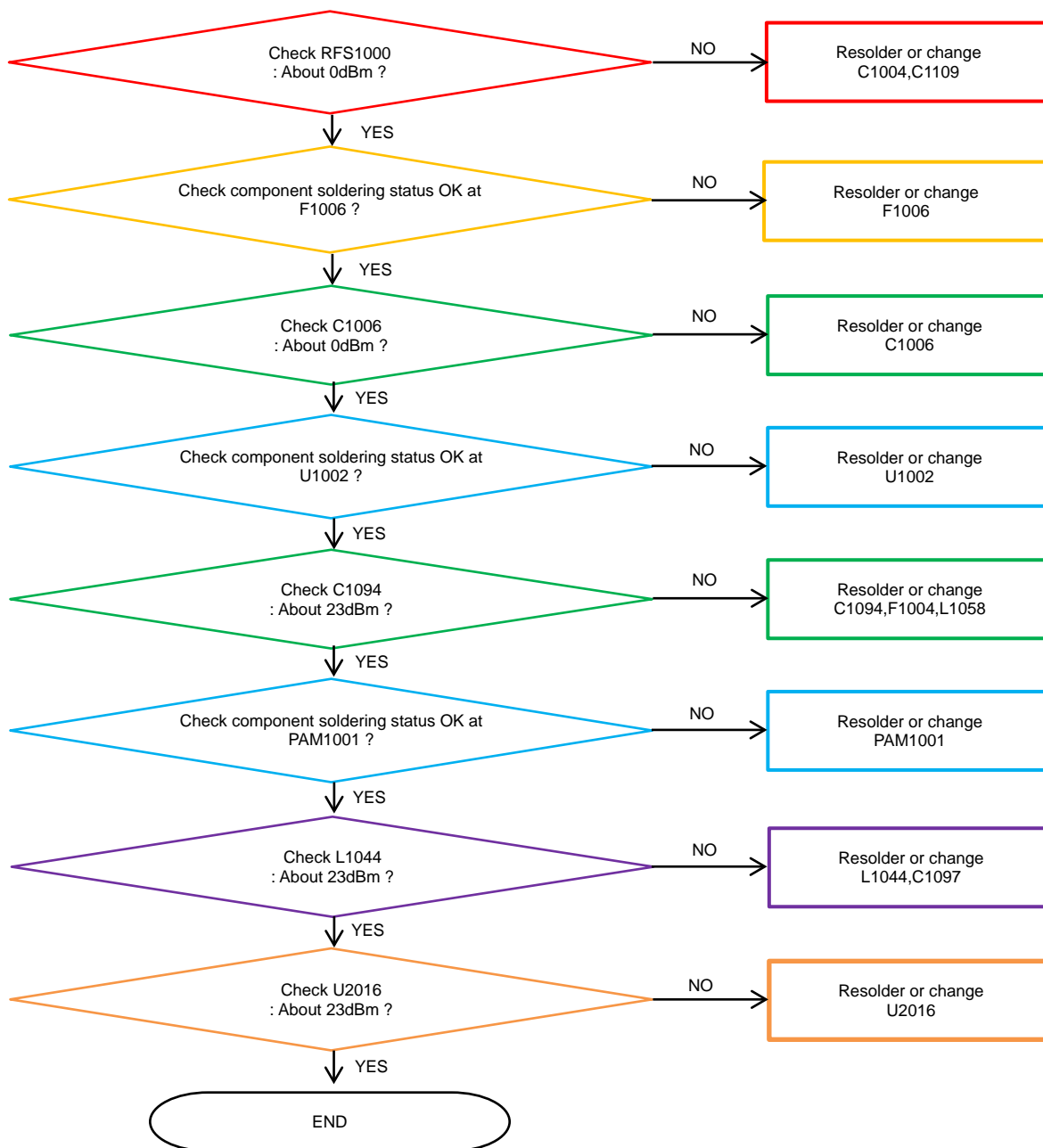
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### 8-4-42. LTE B28 RX [SM-M305M]



## 8. Level 3 Repair

### 8-4-43. LTE B28 TX [SM-M305M]

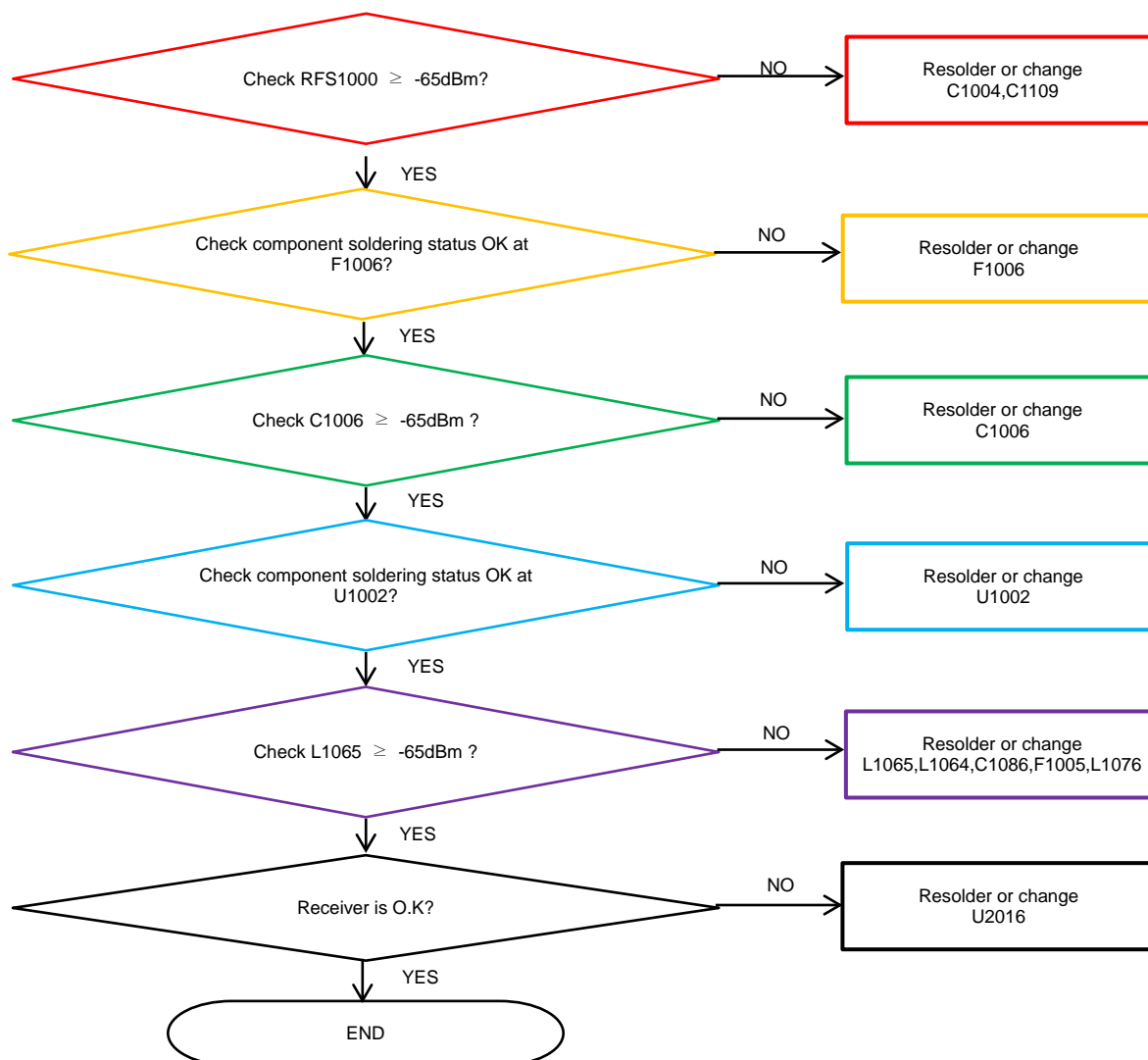


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## 8. Level 3 Repair

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### 8-4-44. LTE B13 RX [M305M]



## 8. Level 3 Repair

### 8-4-45. LTE B13 TX [M305M]

