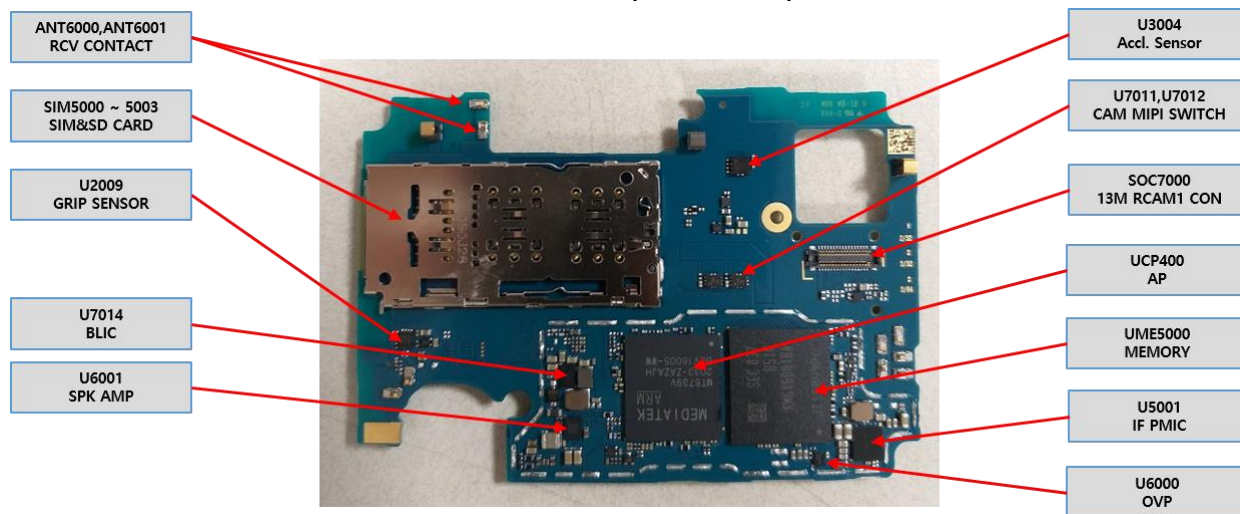


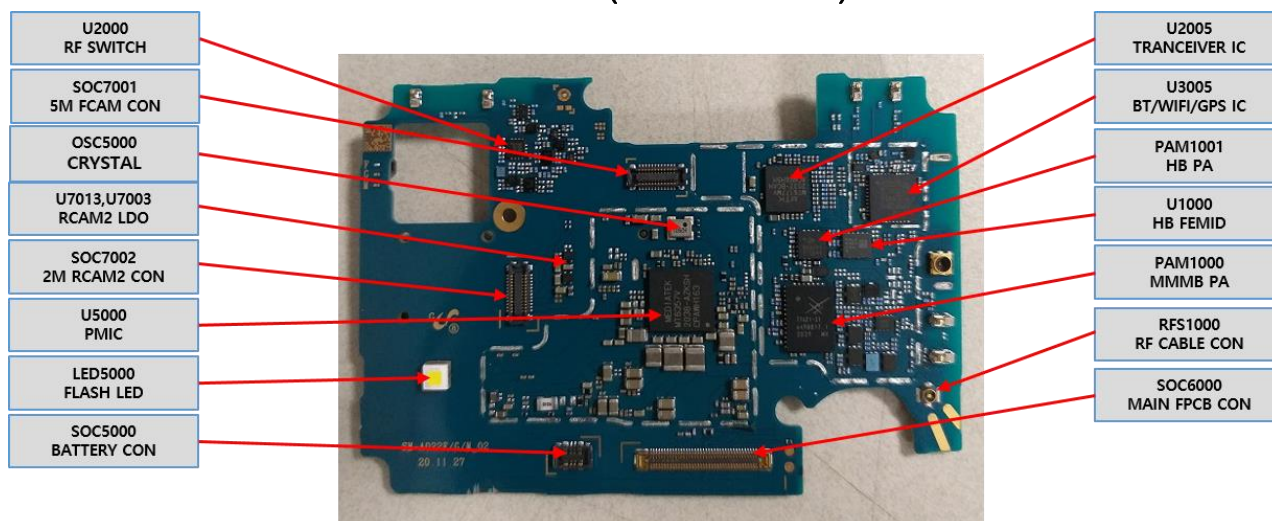
## 8. Level 3 Repair

### 8-1. Components Layout

MAIN PBA (TOP SIDE)



MAIN PBA (BOTTOM SIDE)



آموزش شماتیک و نقشه خوانی

**iranbsm.ir**

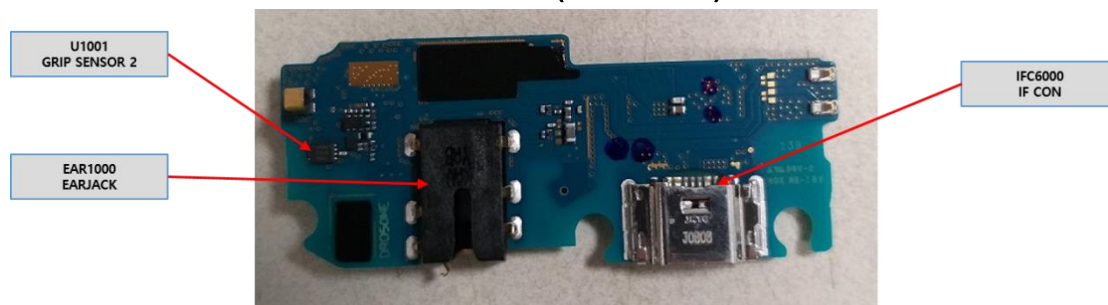
**Mobile schematic training**

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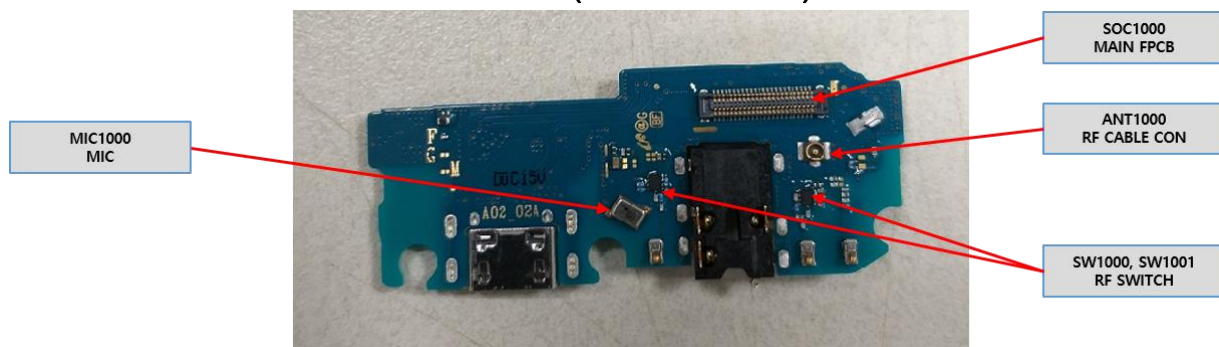
## 8. Level 3 Repair

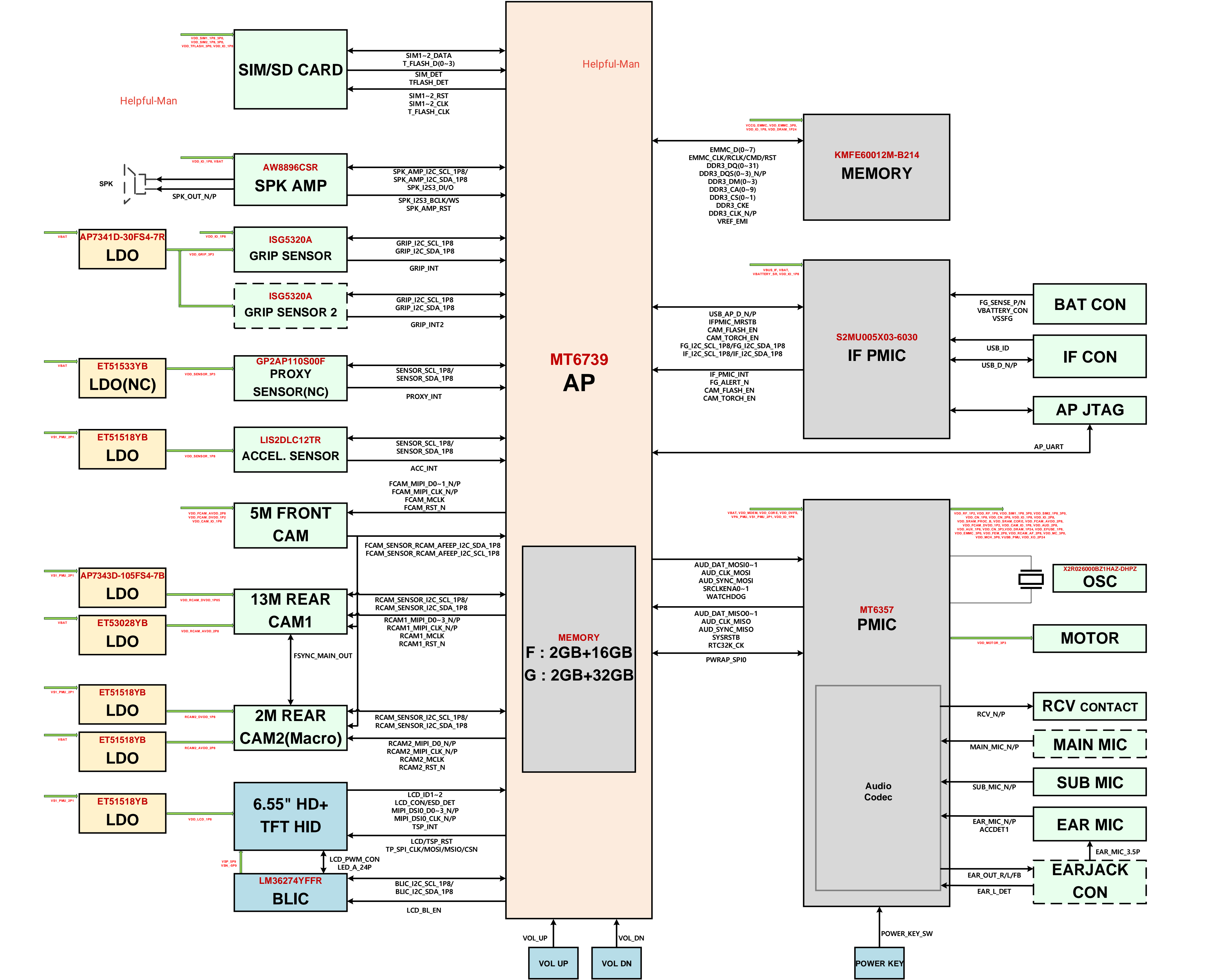
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SUB PBA (TOP SIDE)

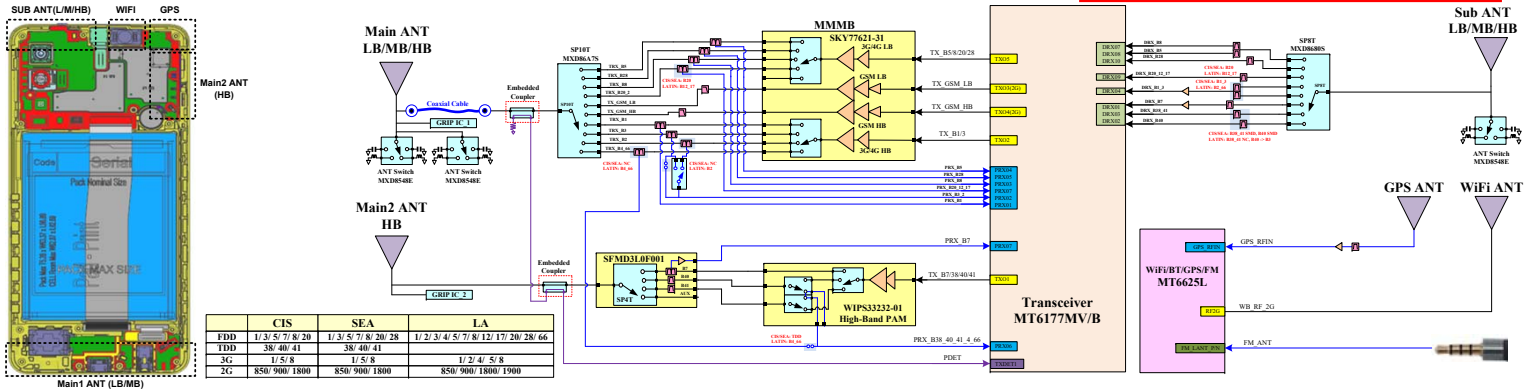


SUB PBA (BOTTOM SIDE)





## SM-A022F/G/M, M022F/G/M







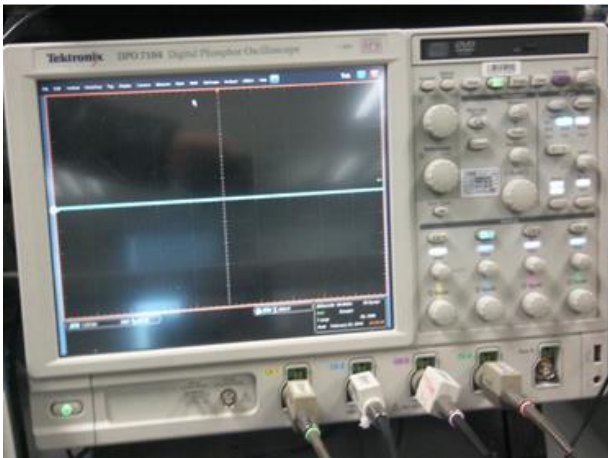


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## 8. Level 3 Repair

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



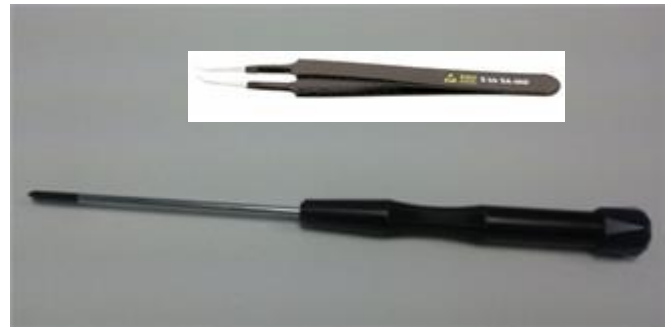
**Oscilloscope**



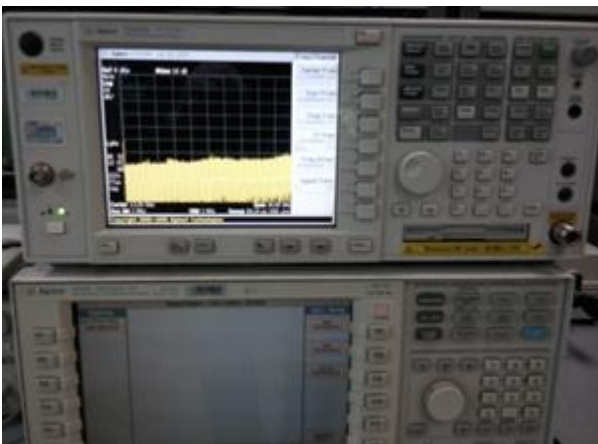
**Digital Multimeter**



**Power Supply**



**+ driver, ESD Safe Tweezer**



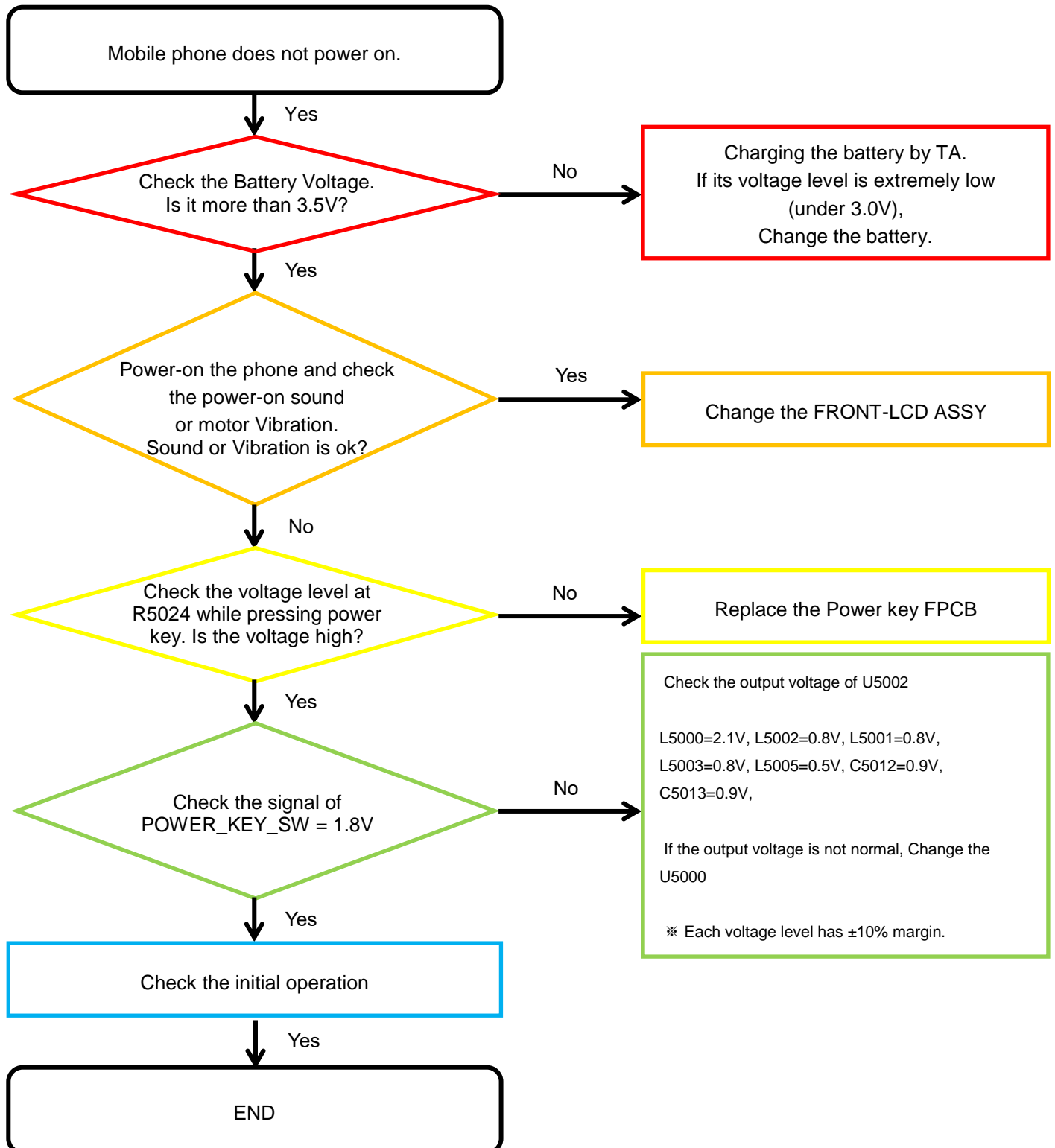
**8960 & Spectrum Analyzer**



**Soldering iron**

## 8. Level 3 Repair

### 8-4-1. Power On



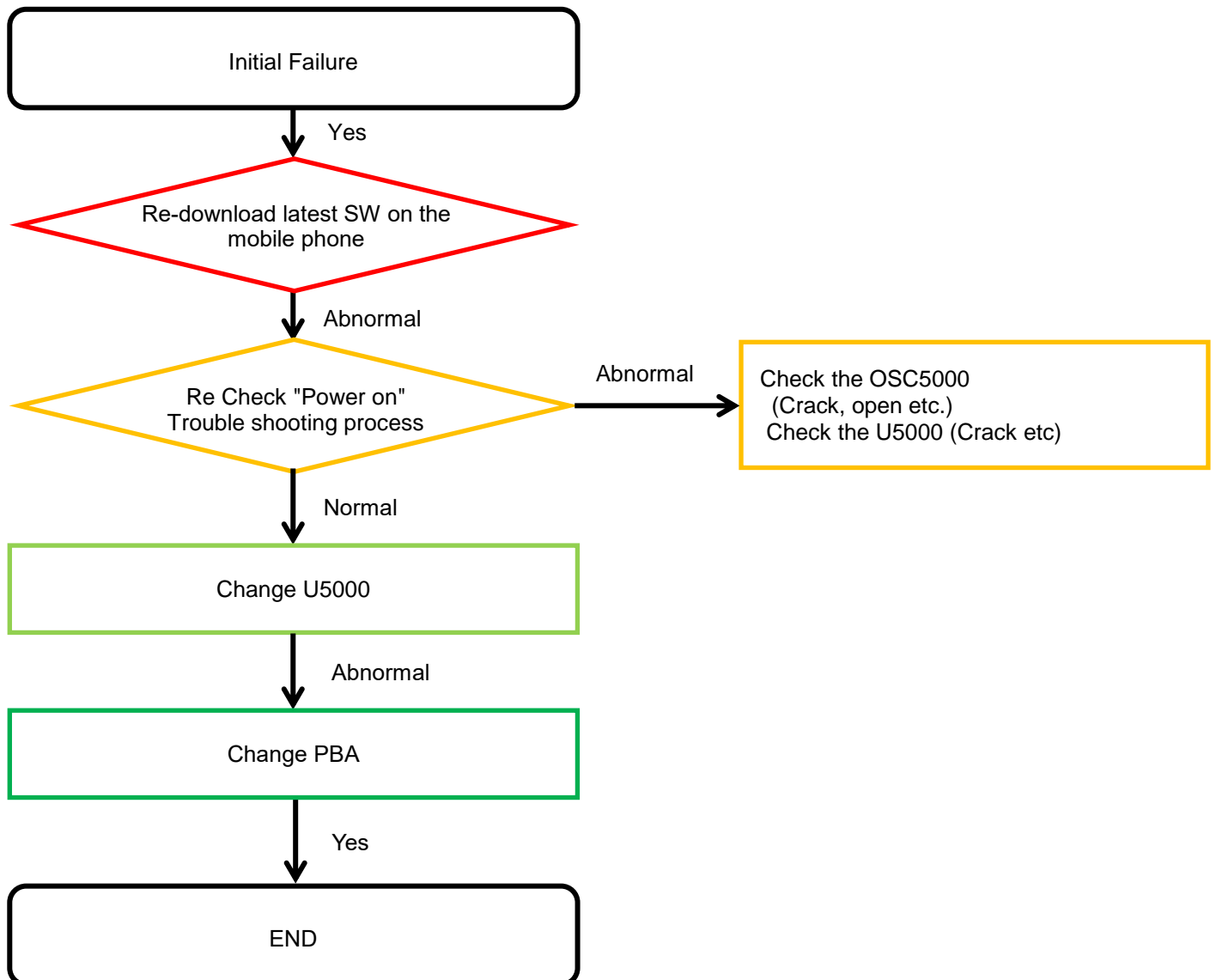


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## 8. Level 3 Repair

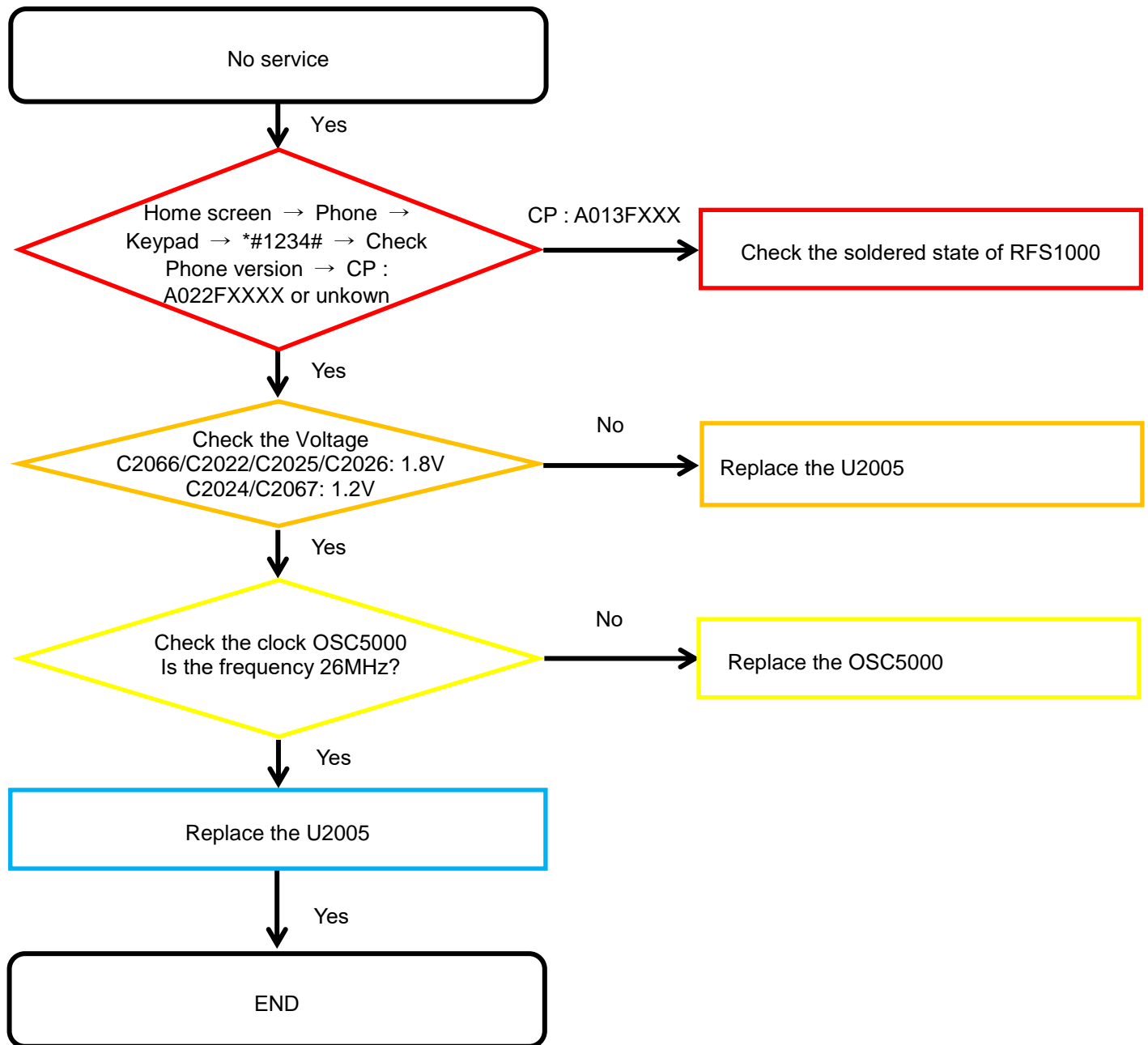
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### 8-4-2. Initial



## 8. Level 3 Repair

### 8-4-3. No Service

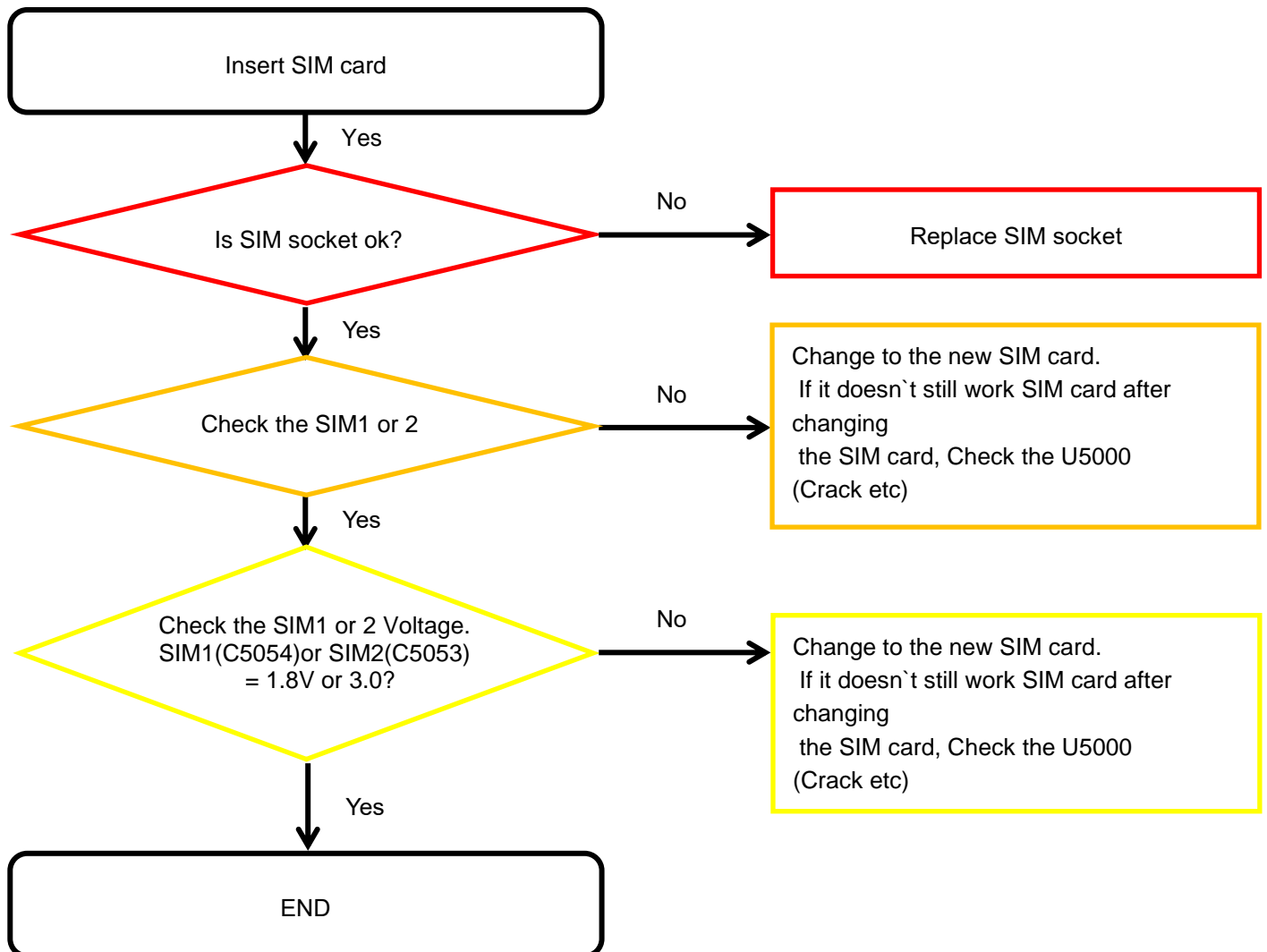


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## 8. Level 3 Repair

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### 8-4-4. SIM Part

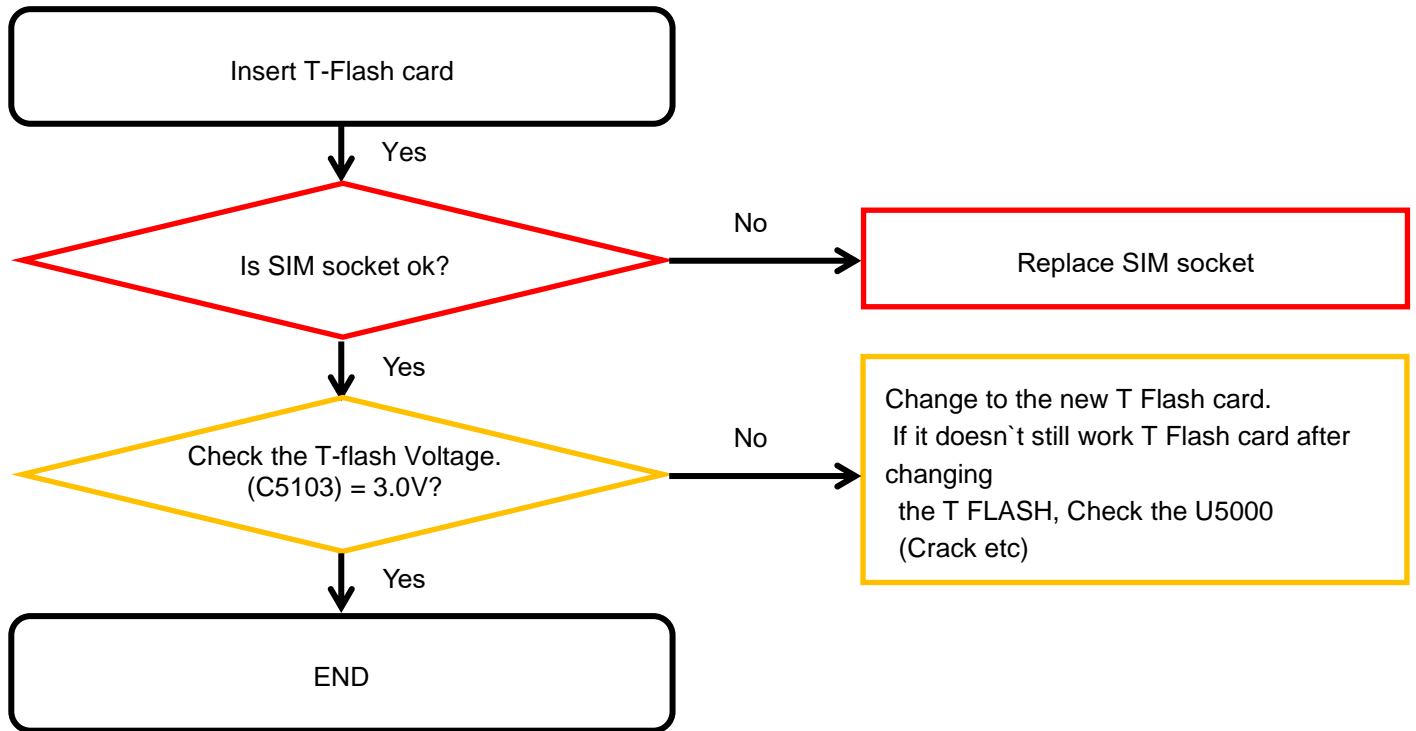


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## 8. Level 3 Repair

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

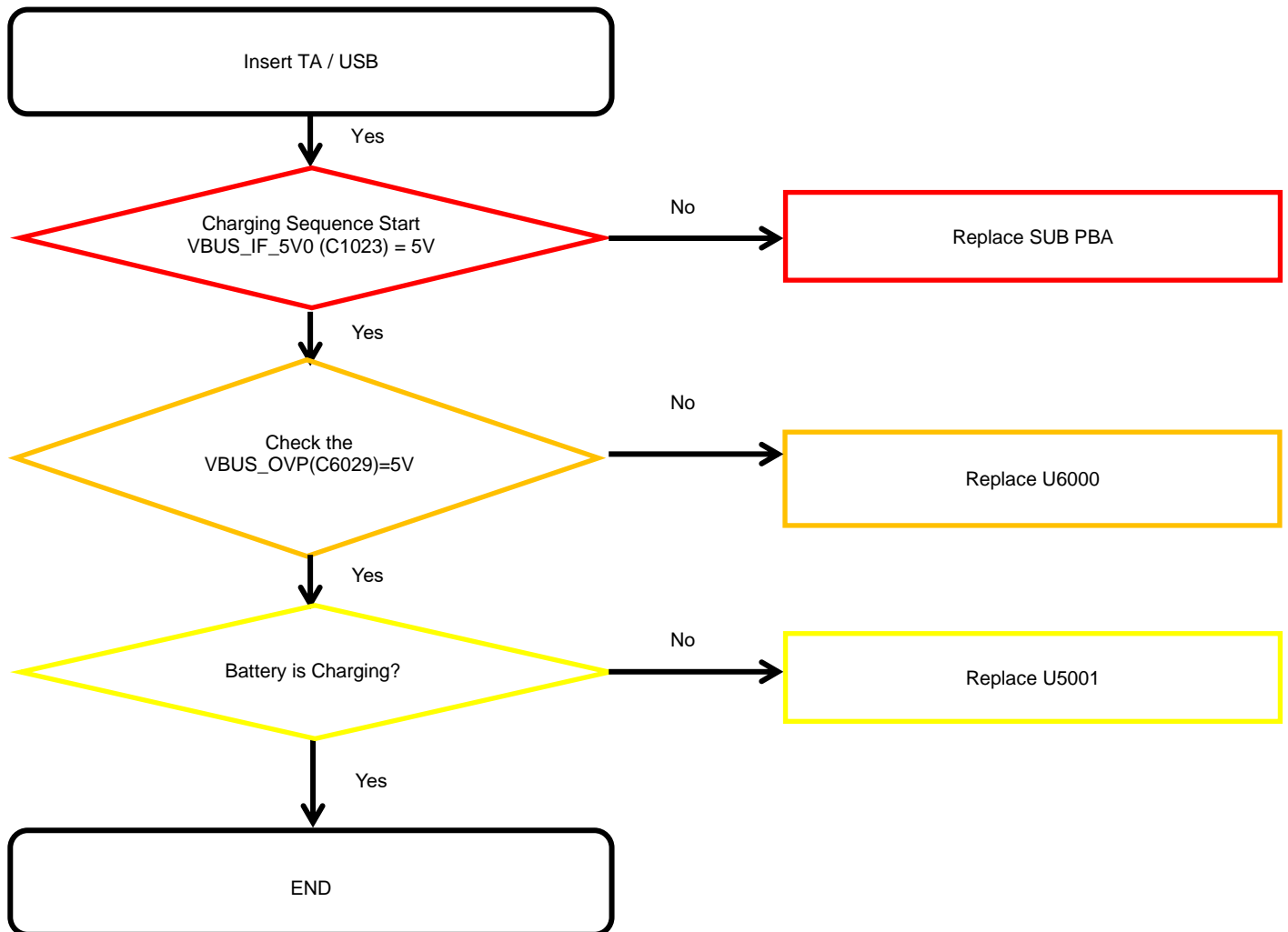


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## 8. Level 3 Repair

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



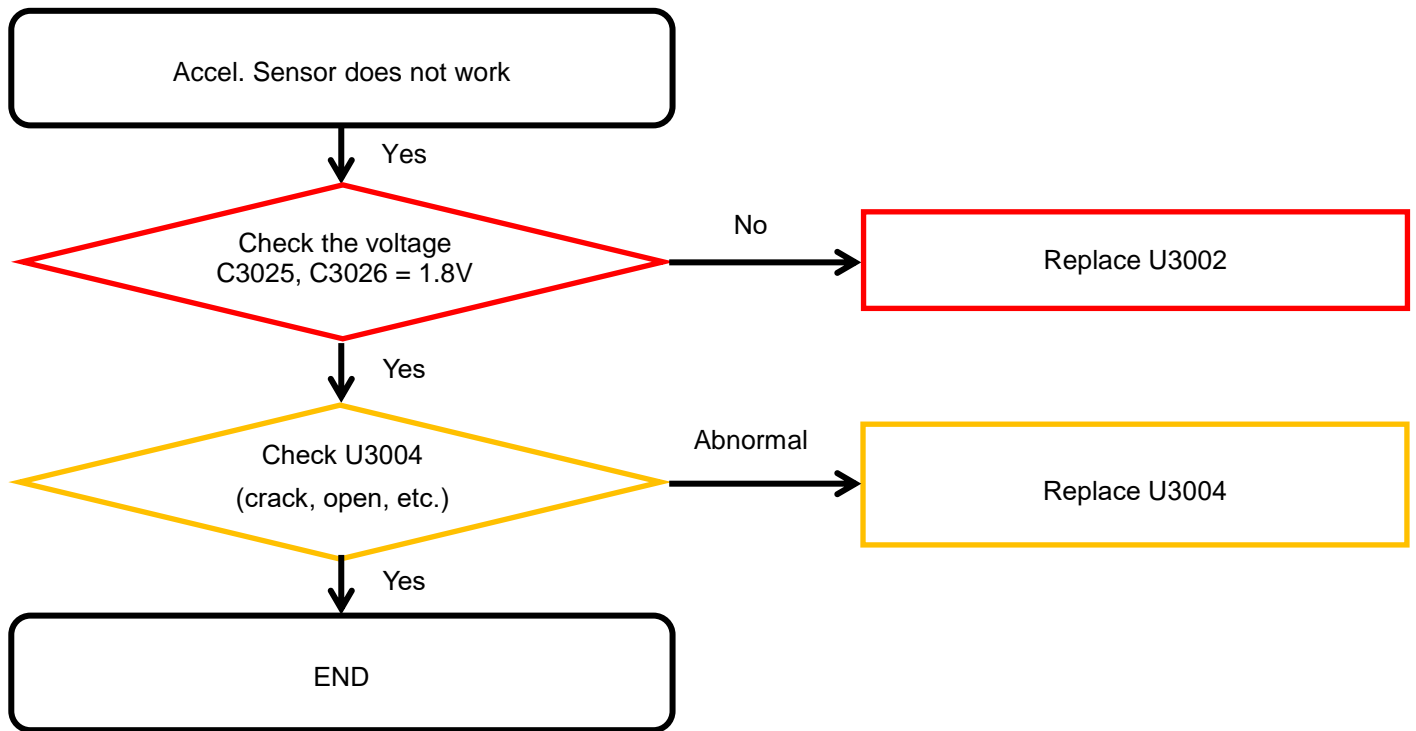


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## 8. Level 3 Repair

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### 8-4-7. Accel. Sensor

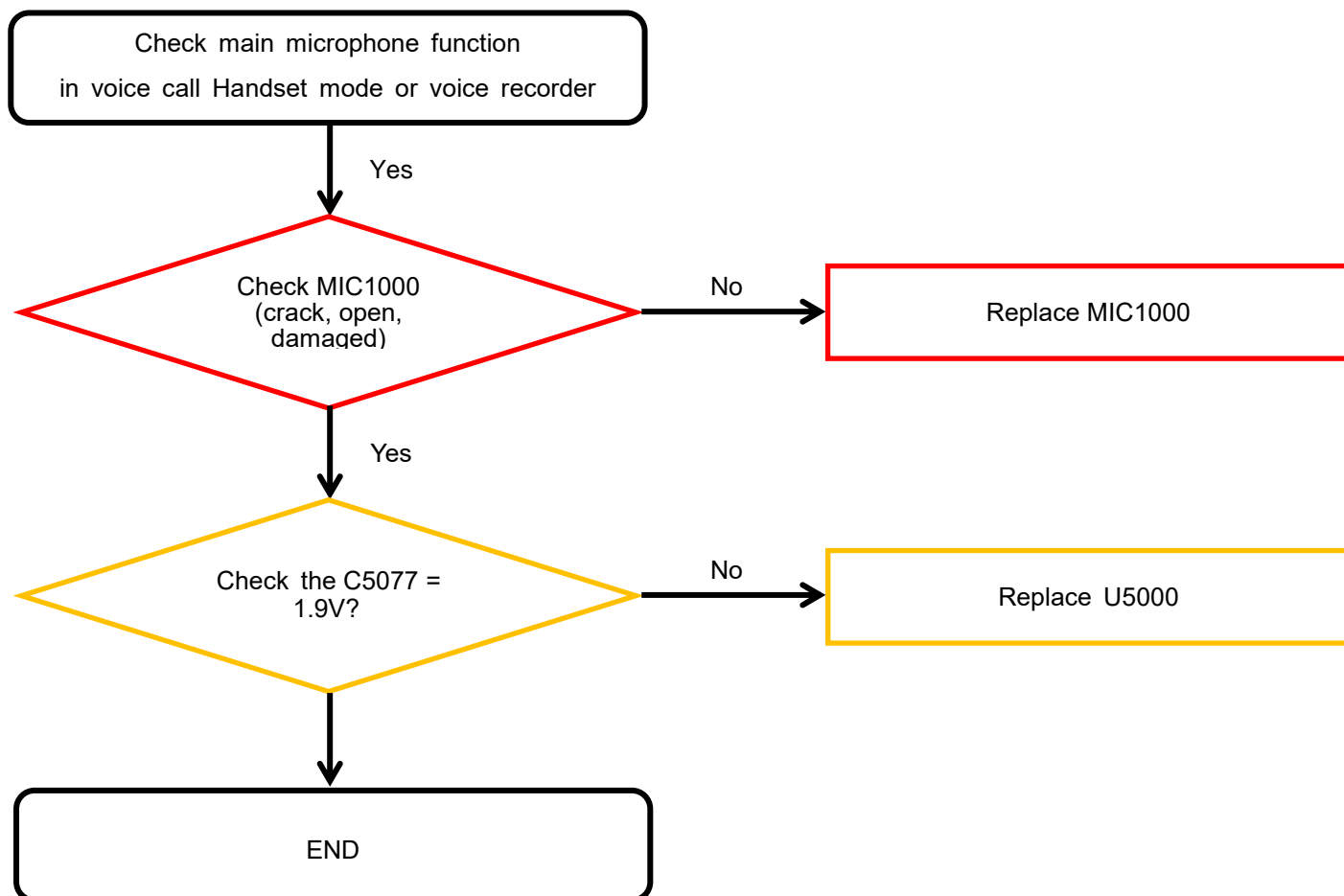


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## 8. Level 3 Repair

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

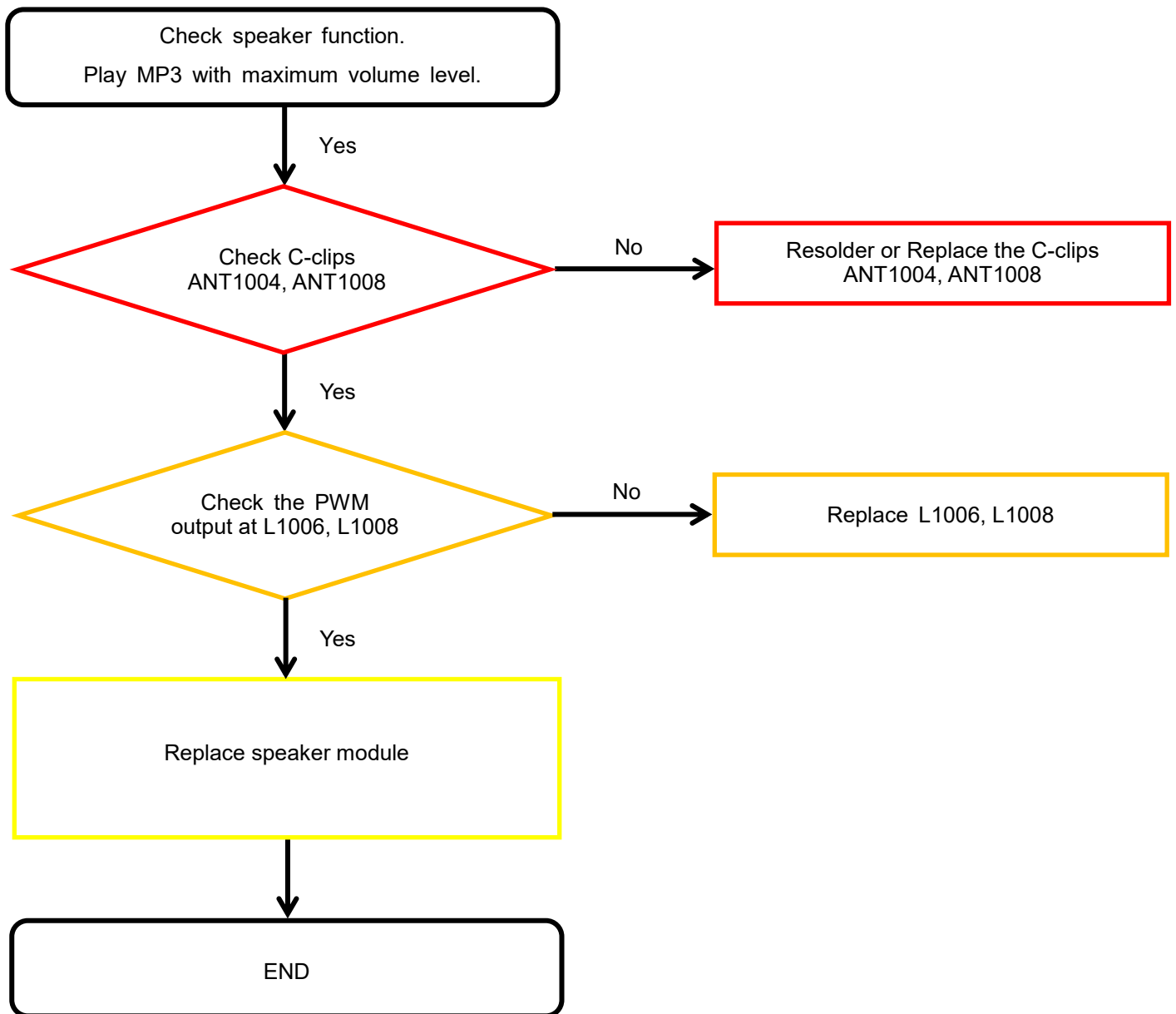


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## 8. Level 3 Repair

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### 8-4-9. Speaker Part

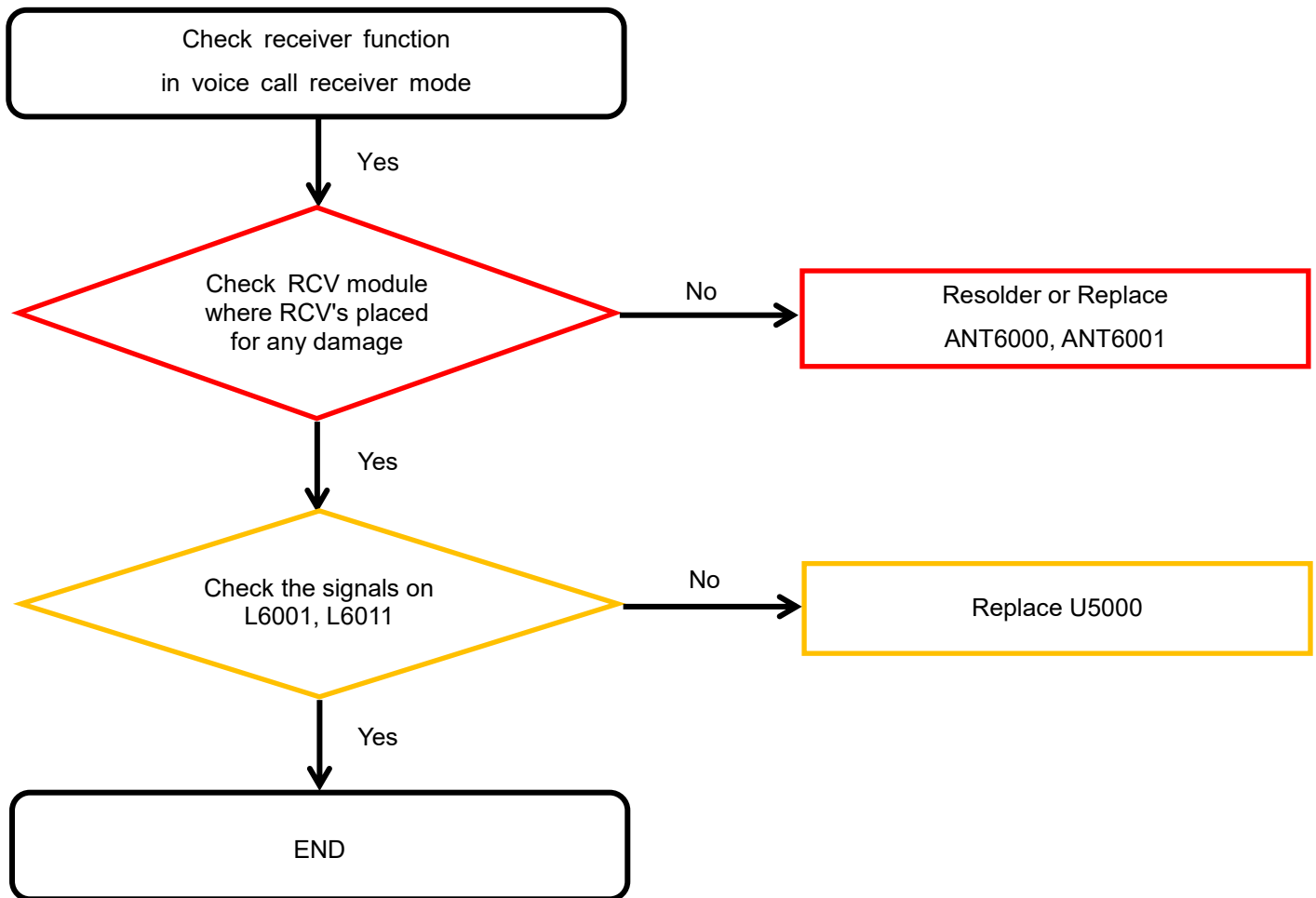


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## 8. Level 3 Repair

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### 8-4-10. Receiver Part

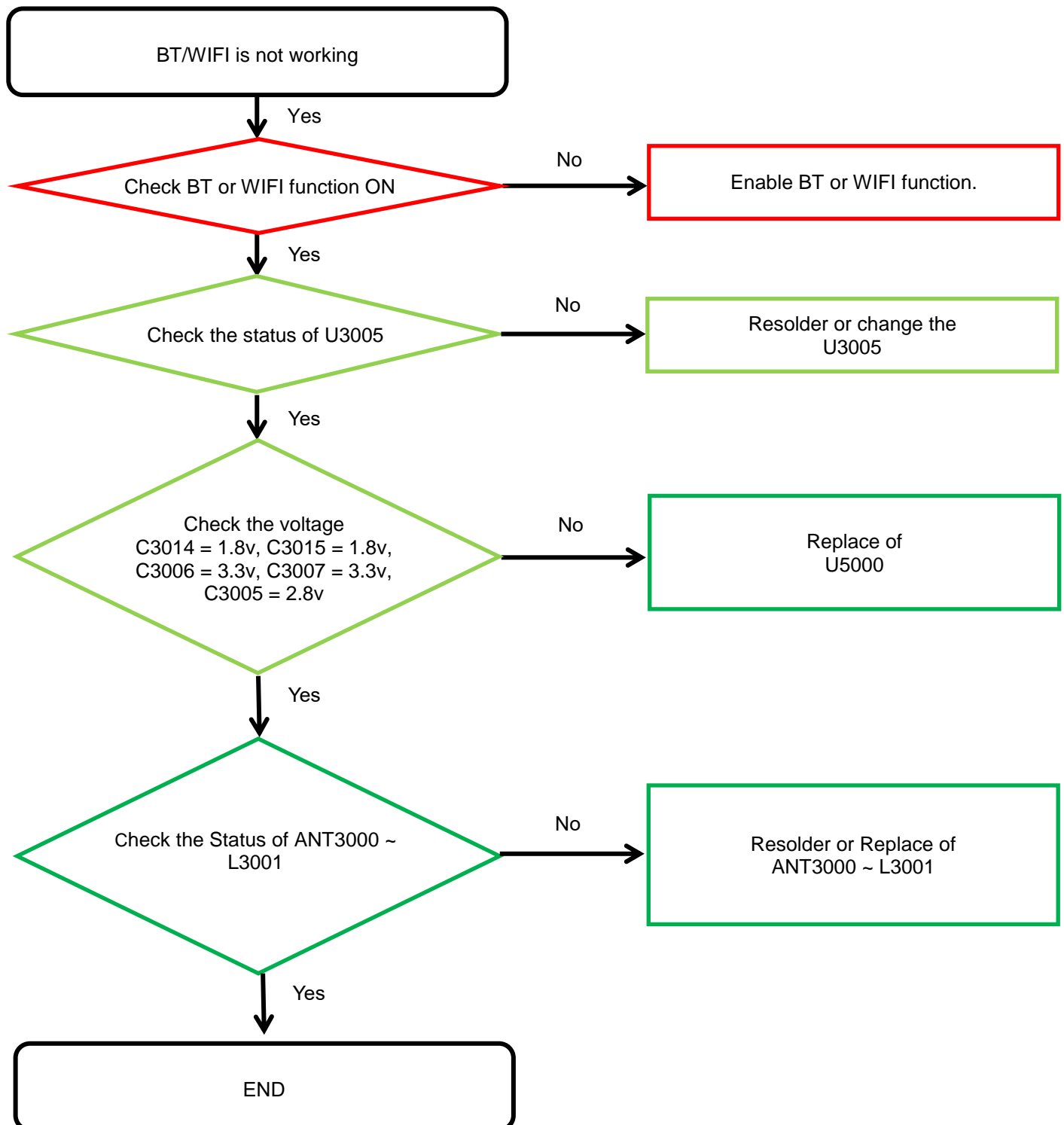


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## 8. Level 3 Repair

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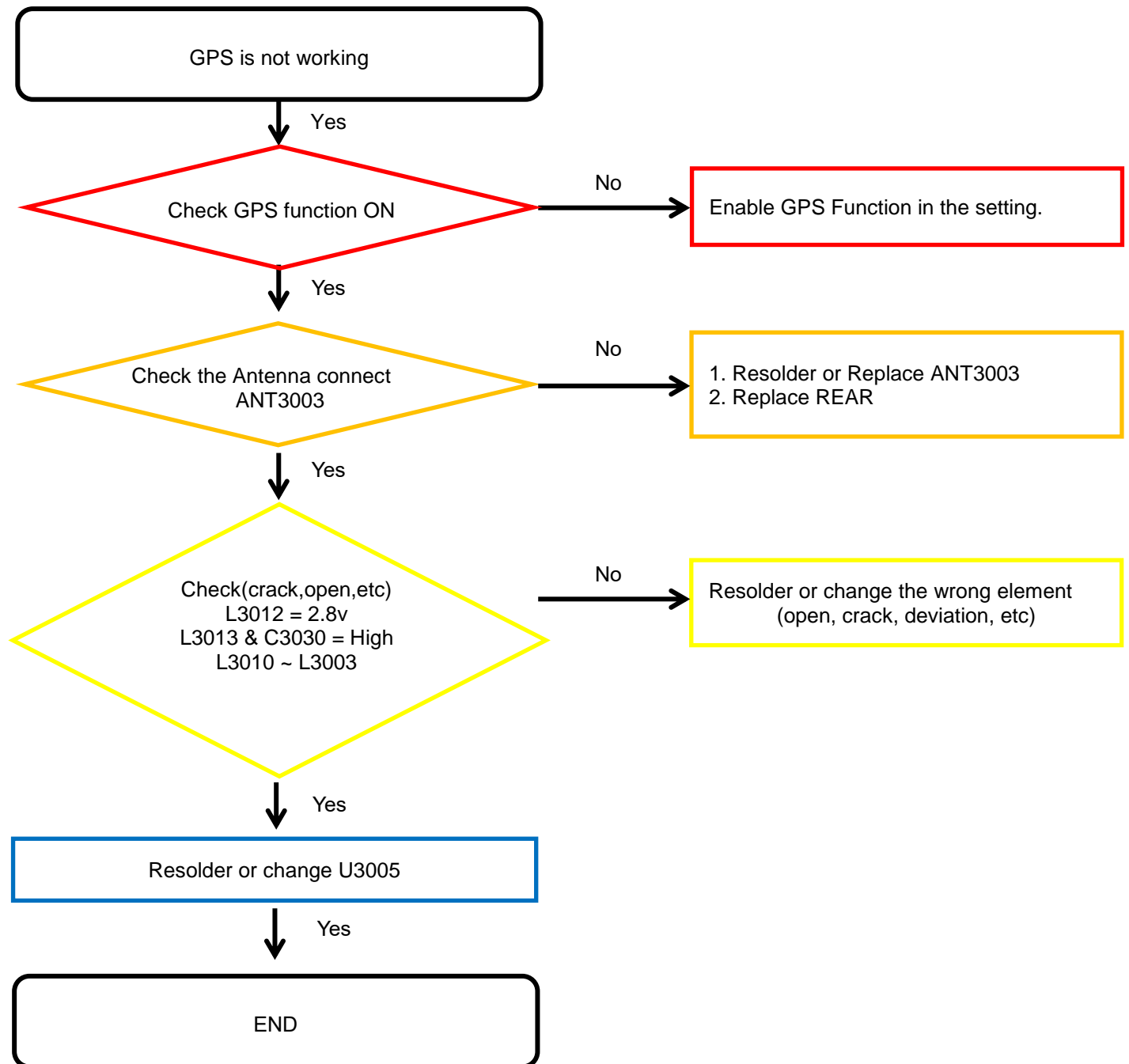
### 8-4-11. BT/WIFI





## 8. Level 3 Repair

### 8-4-12. GPS

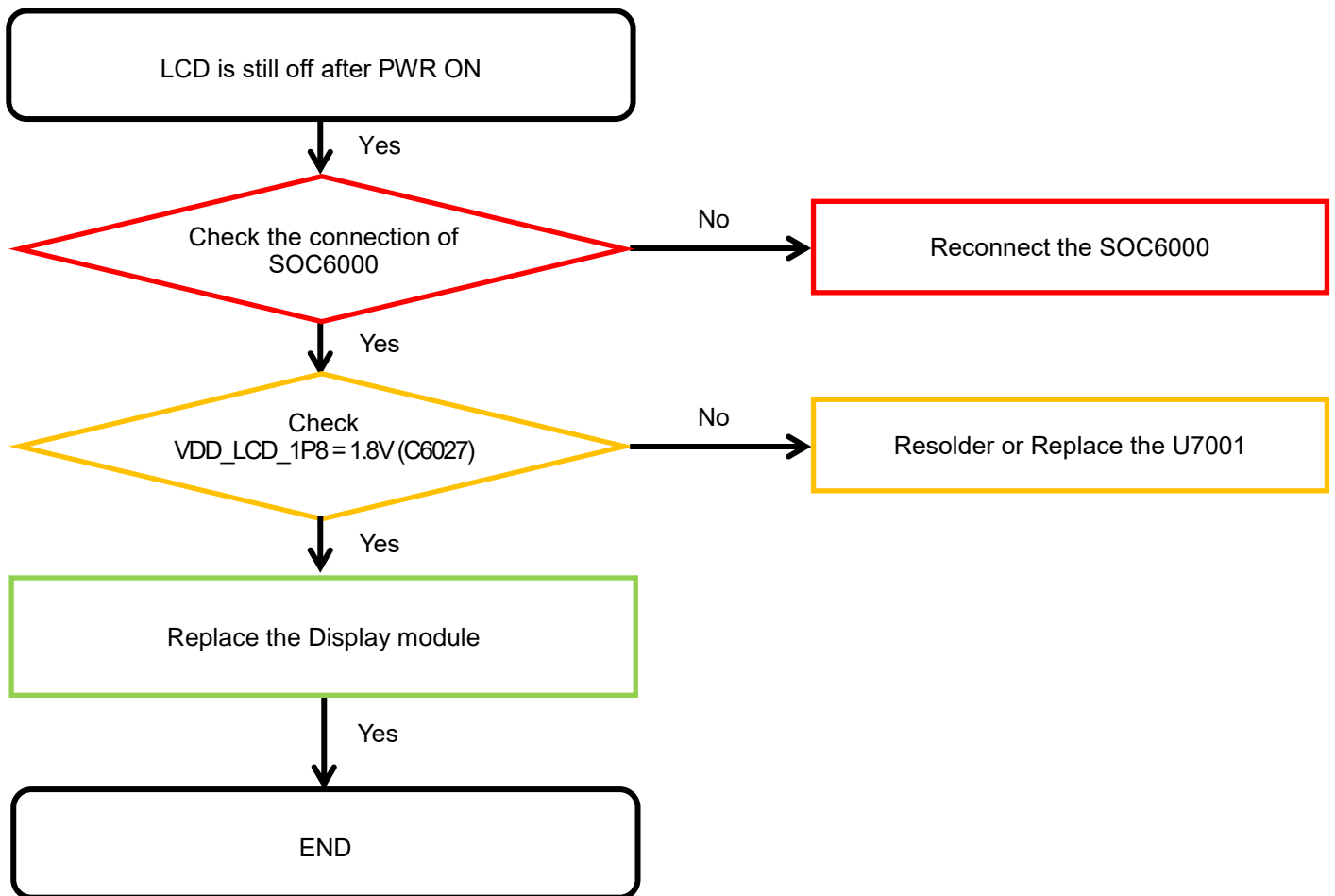


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## 8. Level 3 Repair

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### 8-4-13. Display

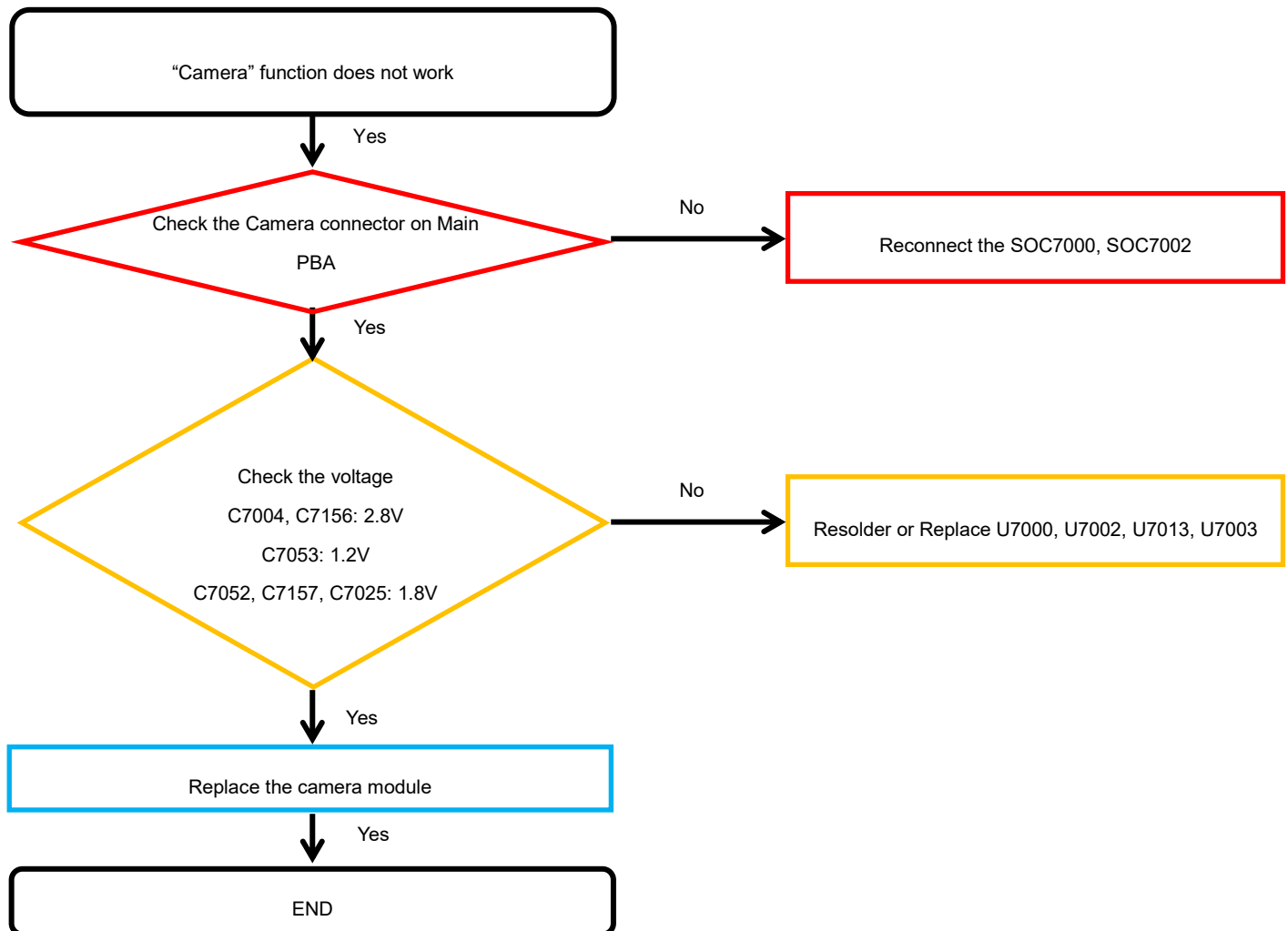


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## 8. Level 3 Repair

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### 8-4-14. 13M/2M REAR CAMERA

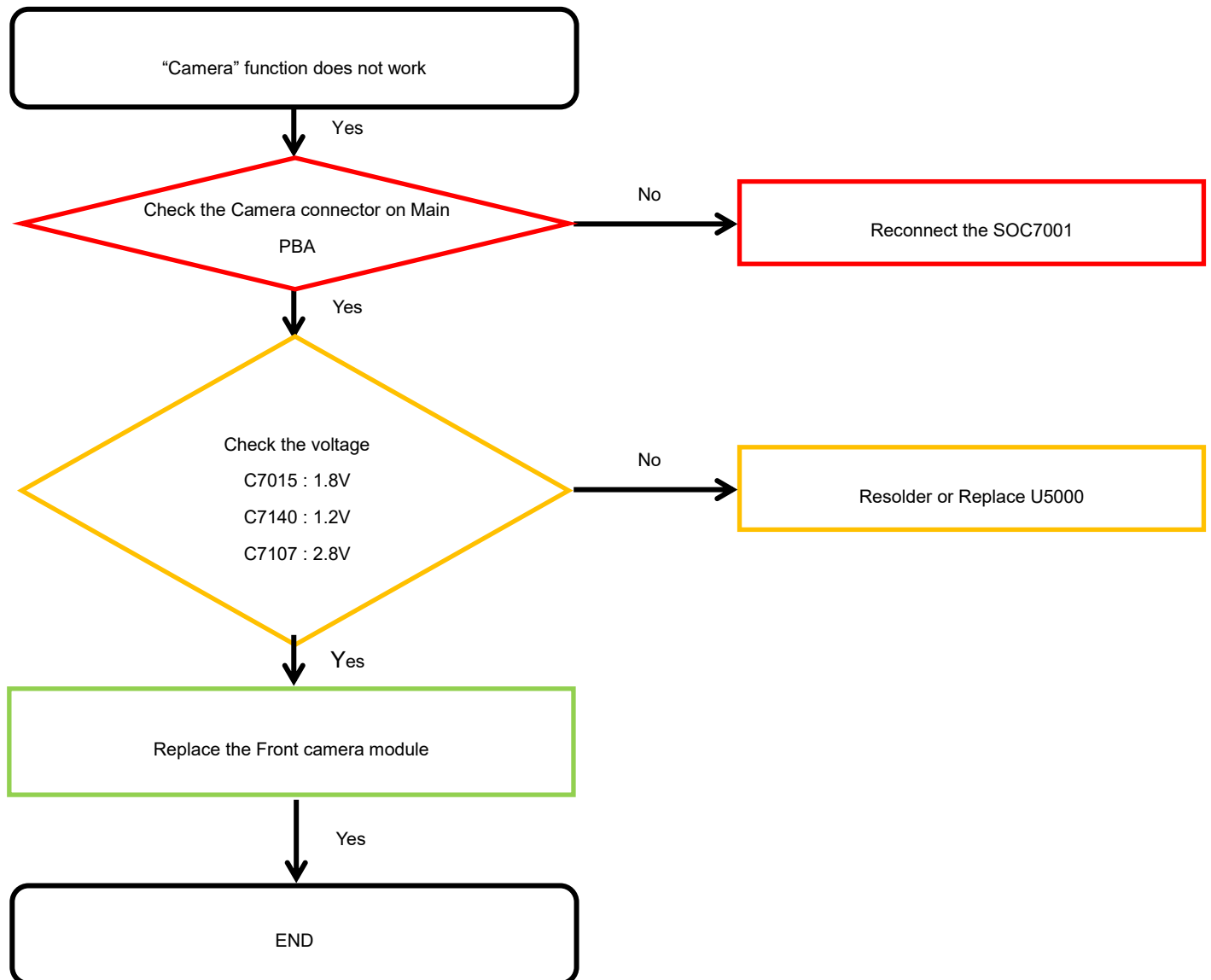


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## 8. Level 3 Repair

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### 8-4-15. 5M FRONT CAMERA

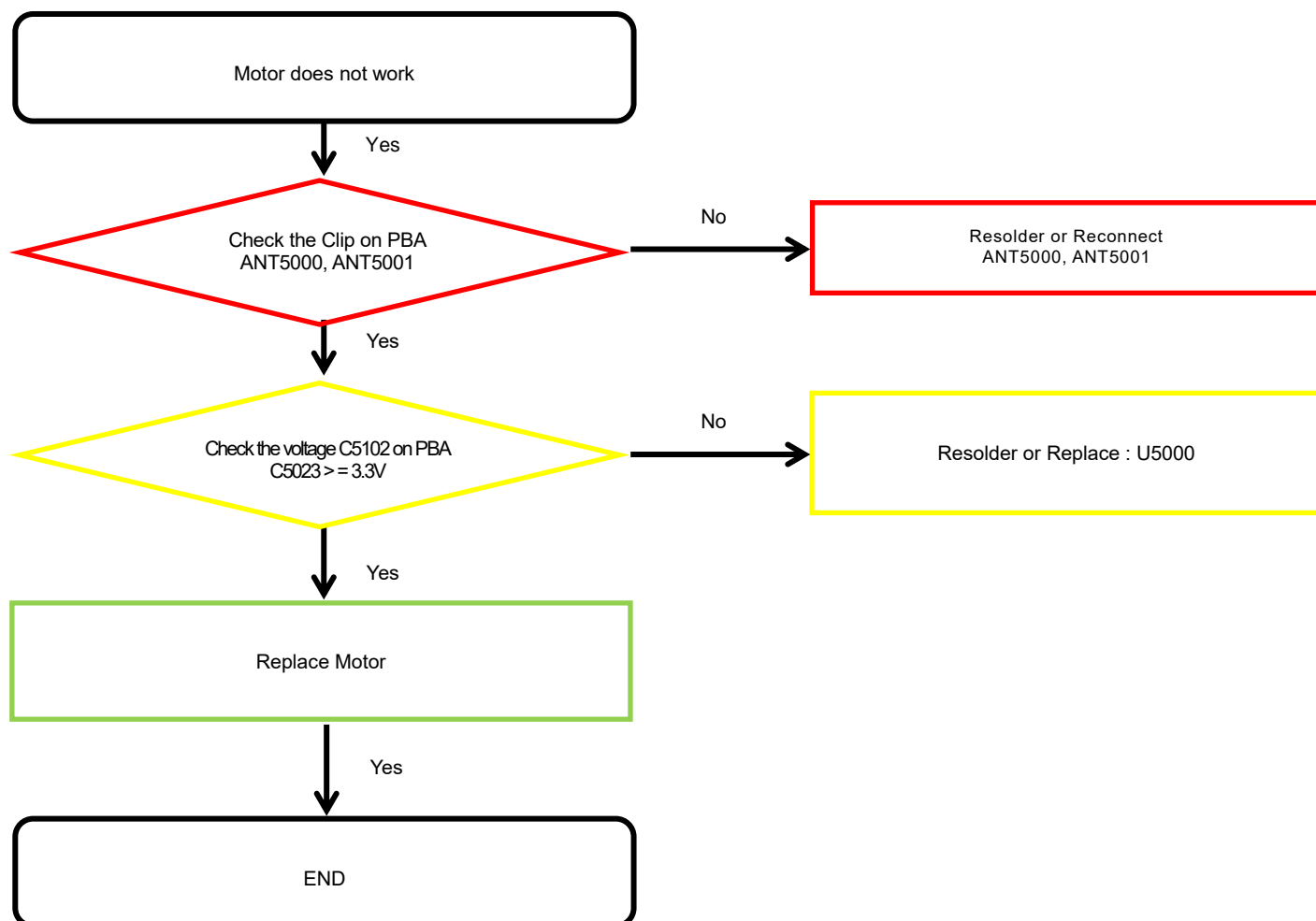


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## 8. Level 3 Repair

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### 8-4-16. Motor



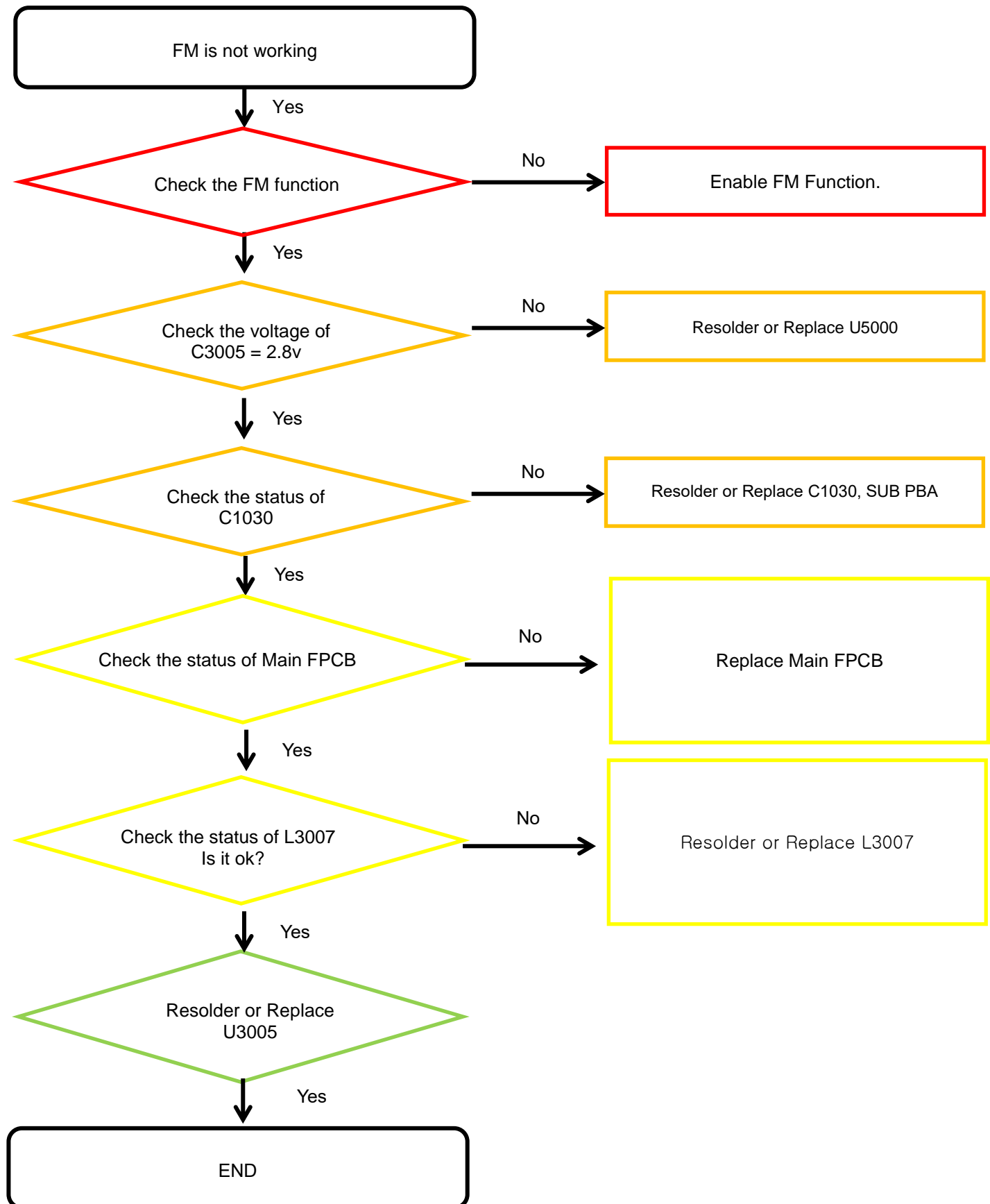


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## 8. Level 3 Repair

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### 8-4-17. FM radio part

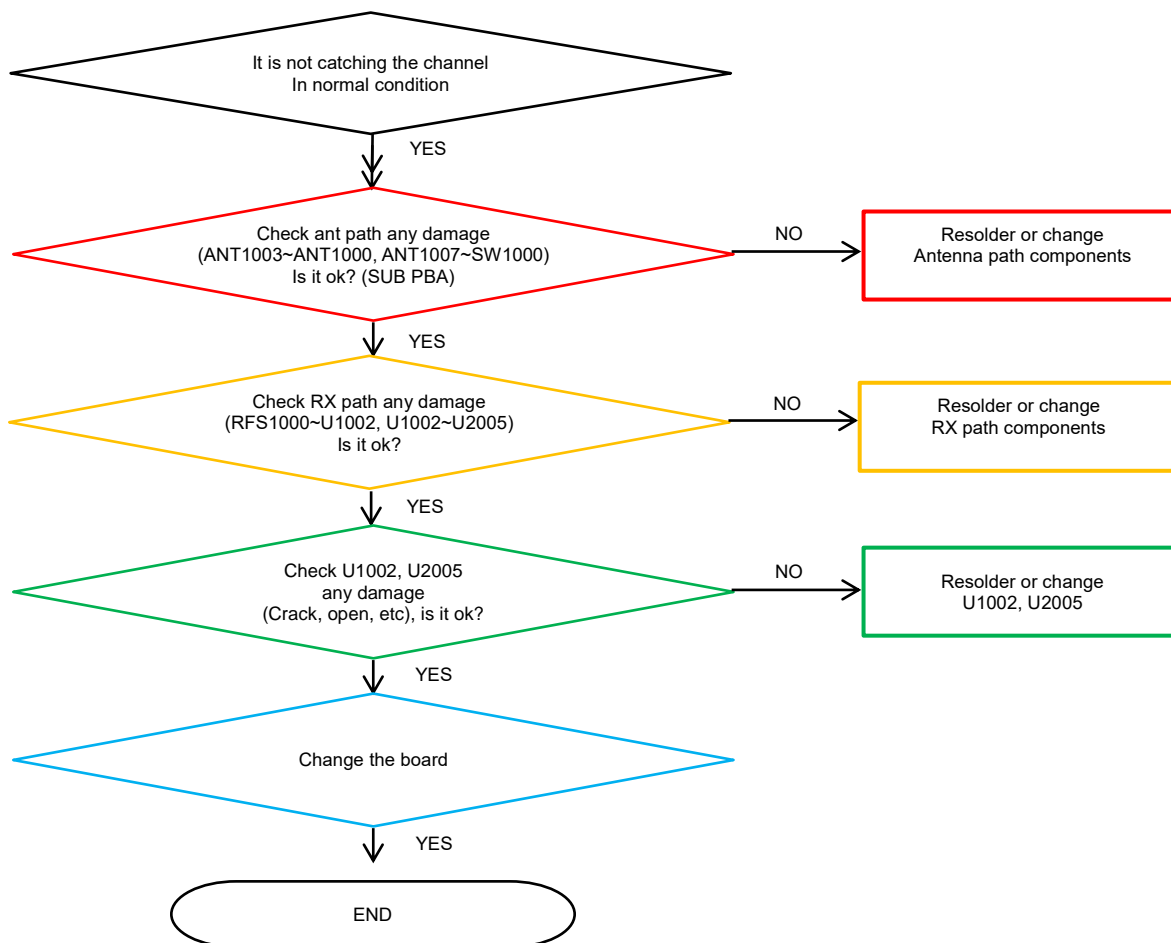


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## 8. Level 3 Repair

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### 8-4-18. GSM 850/900/1800/1900, WCDMA B1/2/4/5/8, LTE B1/2/3/4/5/8/12/17/20/28/66 PRx

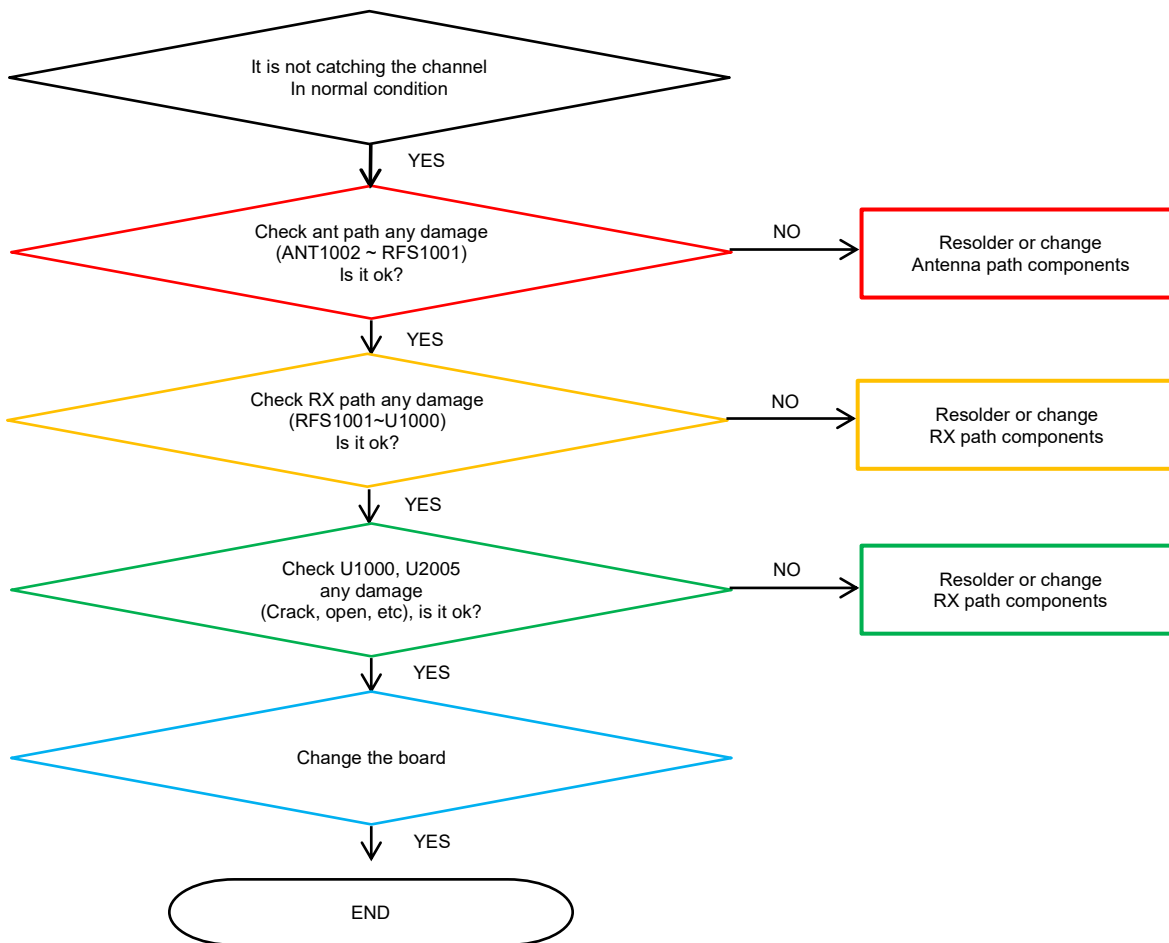


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## 8. Level 3 Repair

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### 8-4-19. LTE B7/38/40/41 PRx

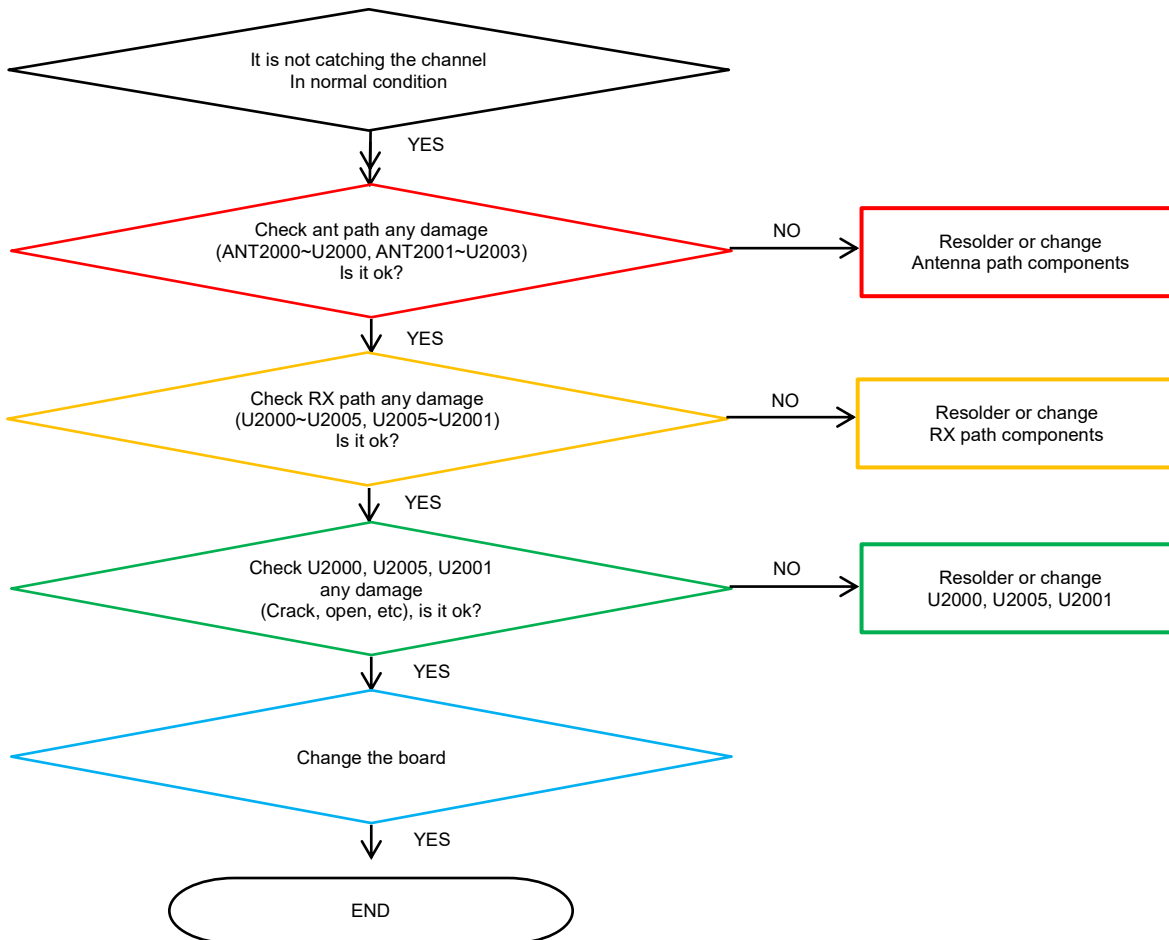


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## 8. Level 3 Repair

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### 8-4-20. WCDMA B1/2/4/5/8, LTE B1/2/3/4/5/8/12/17/20/28/66 DRx

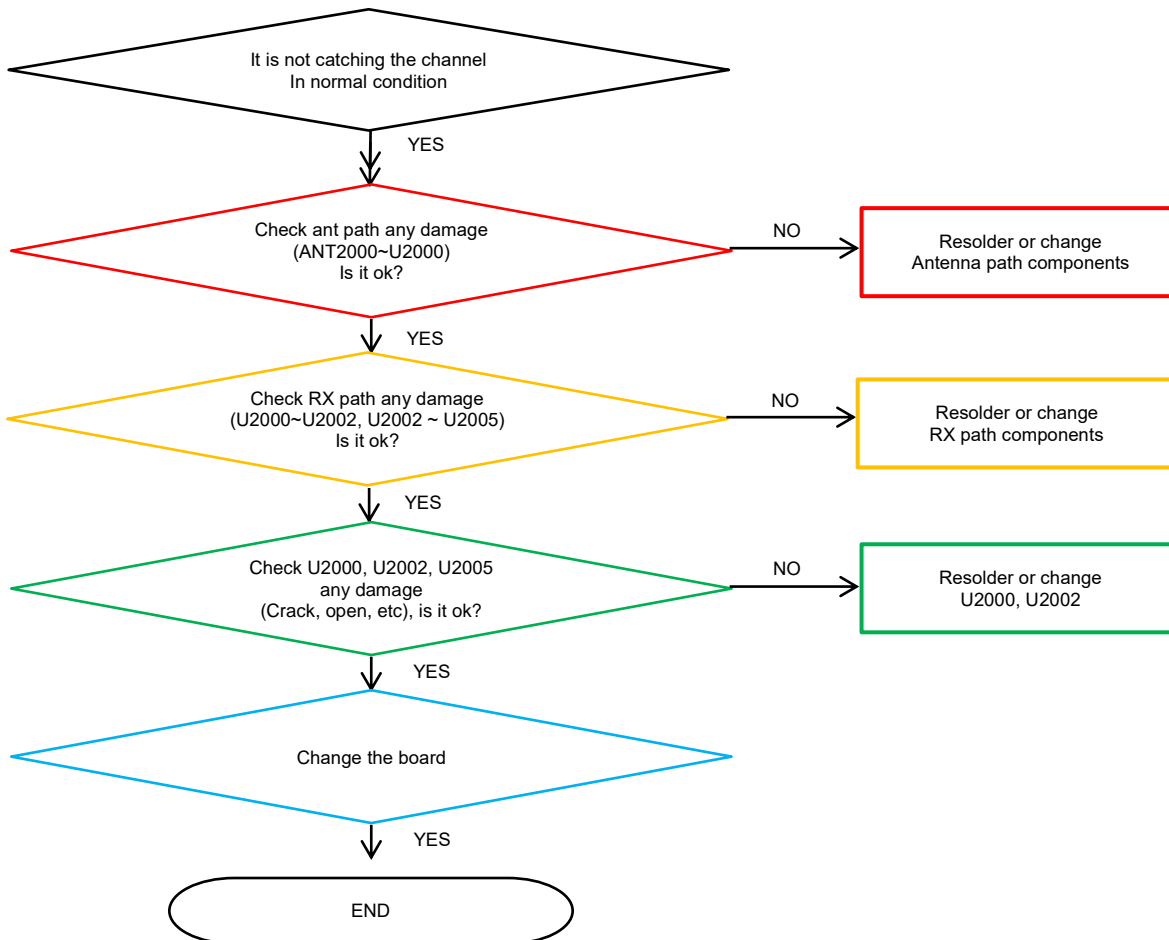


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## 8. Level 3 Repair

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### 8-4-21. LTE B7/38/40/41 DRx



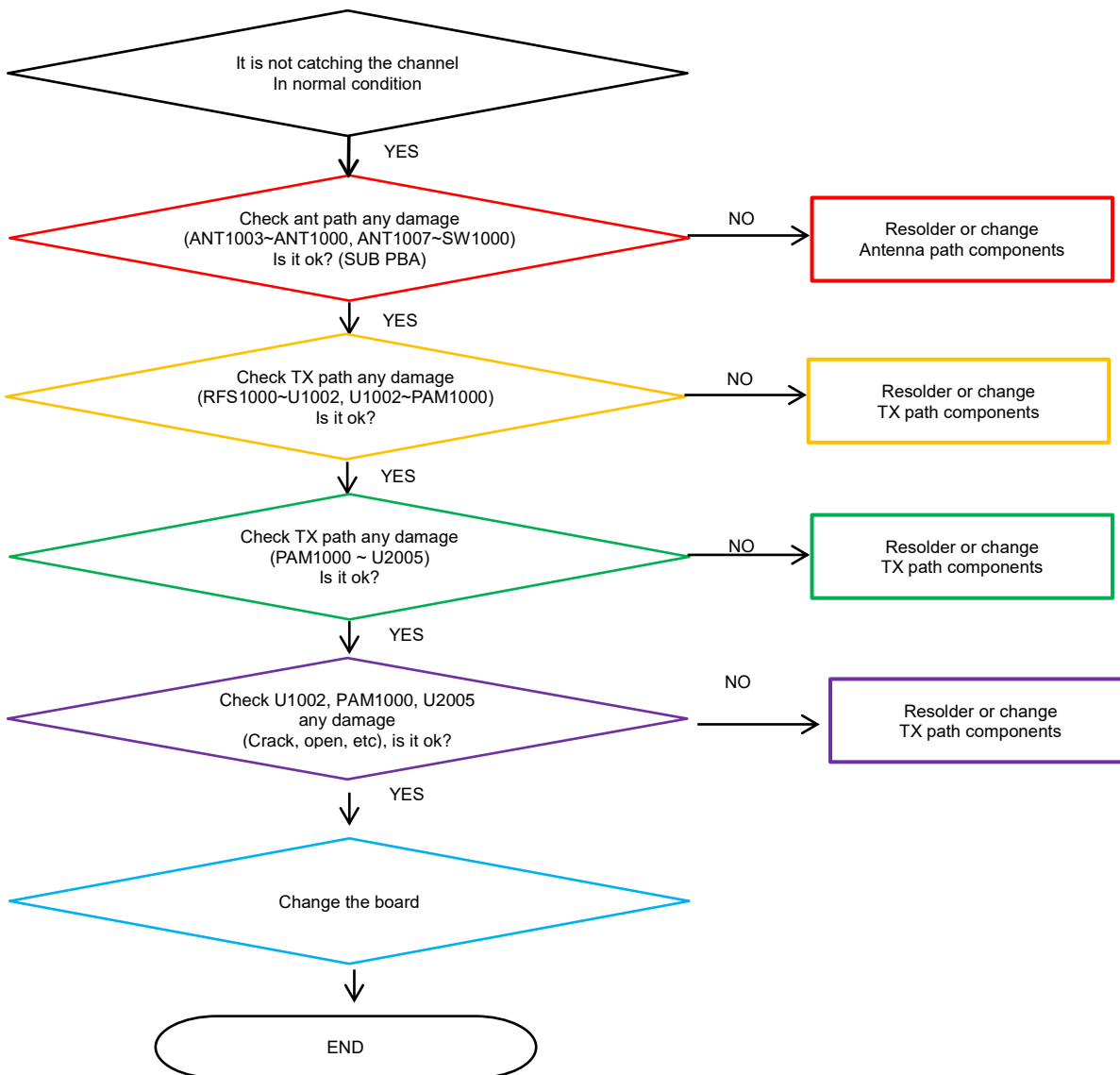


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## 8. Level 3 Repair

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### 8-4-22. GSM 850/900/1800/1900, WCDMA B1/2/4/5/8, LTE B1/2/3/4/5/8/12/17/20/28/66 Tx



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## 8. Level 3 Repair

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### 8-4-23. LTE B7/38/40/41 Tx

