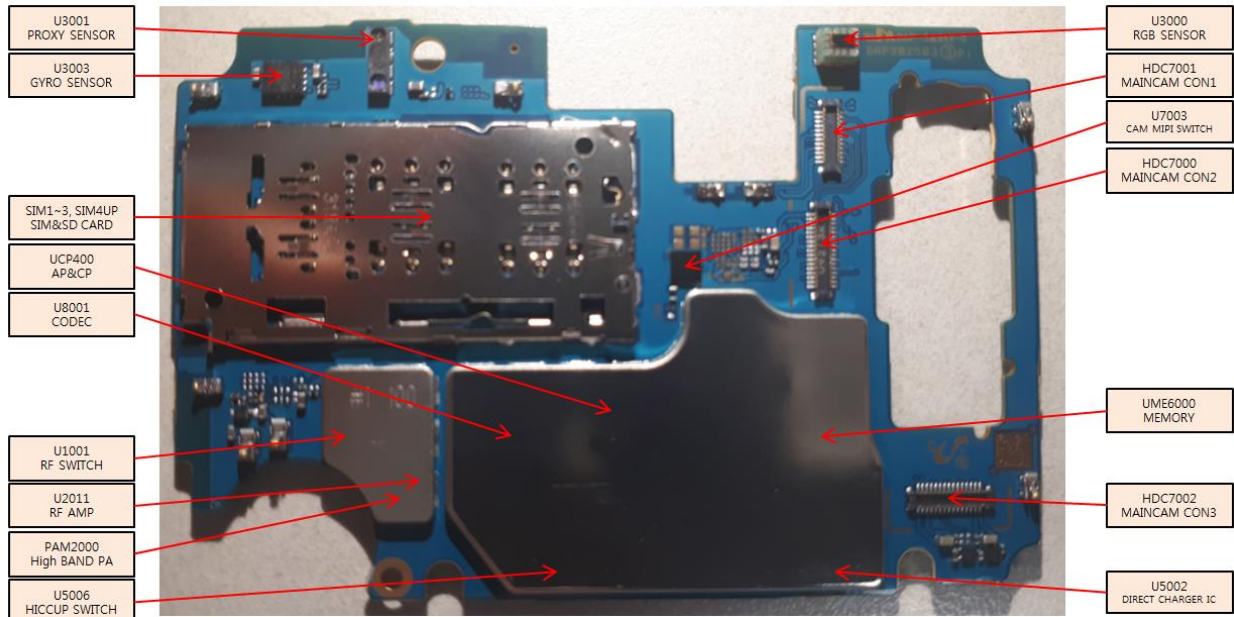


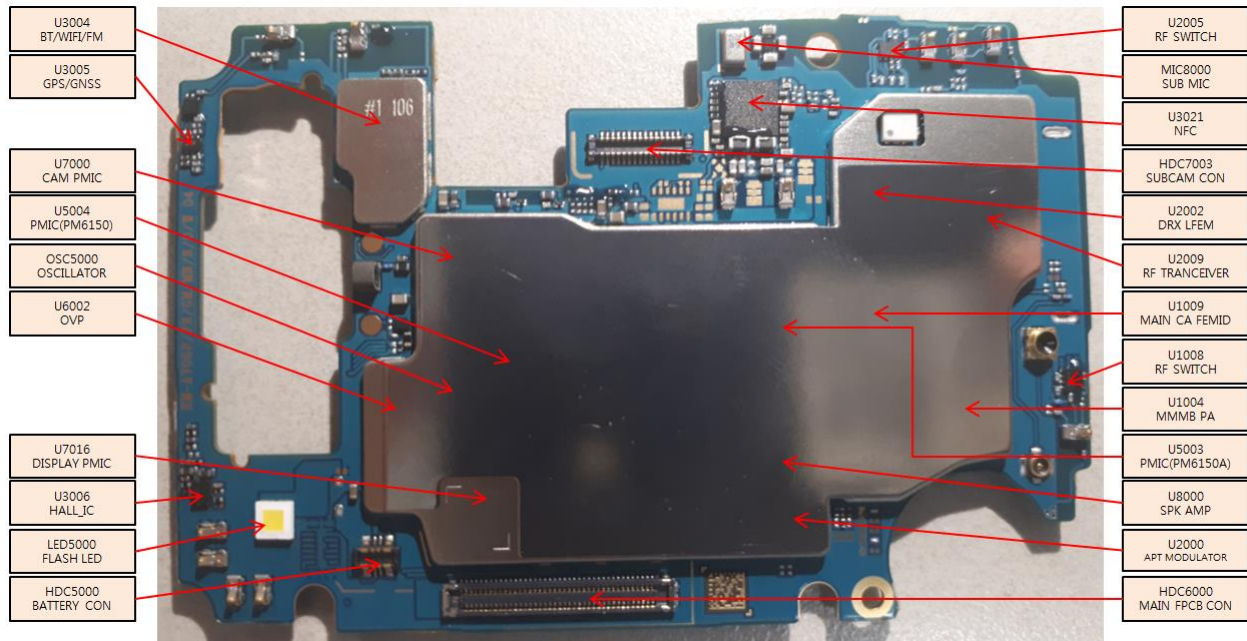
## 8. Level 3 Repair

### 8-1. Components Layout

#### MAIN PBA (TOP SIDE)

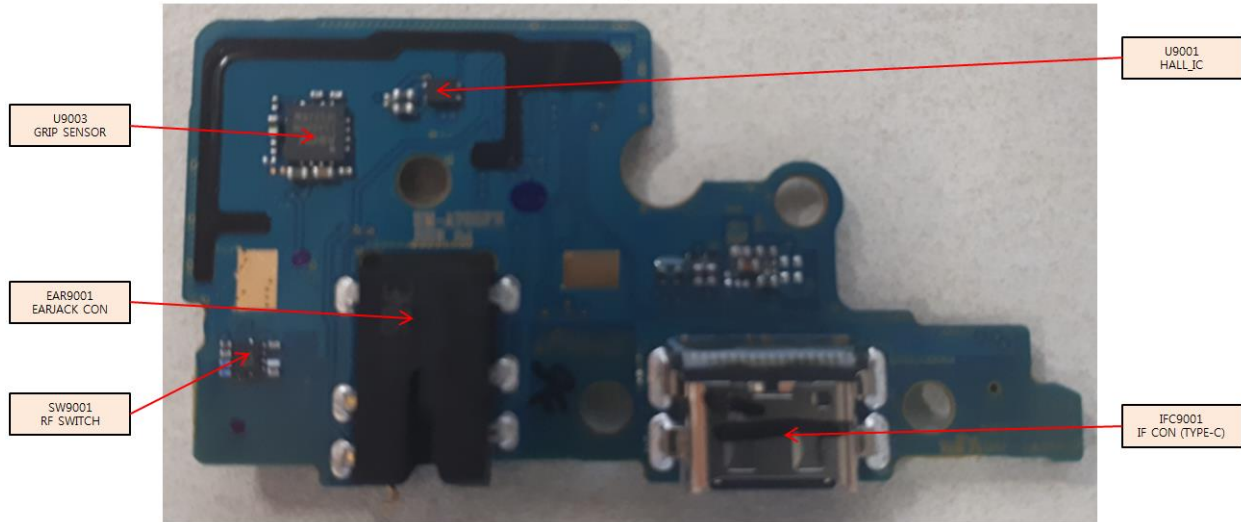


#### MAIN PBA (BOTTOM SIDE)

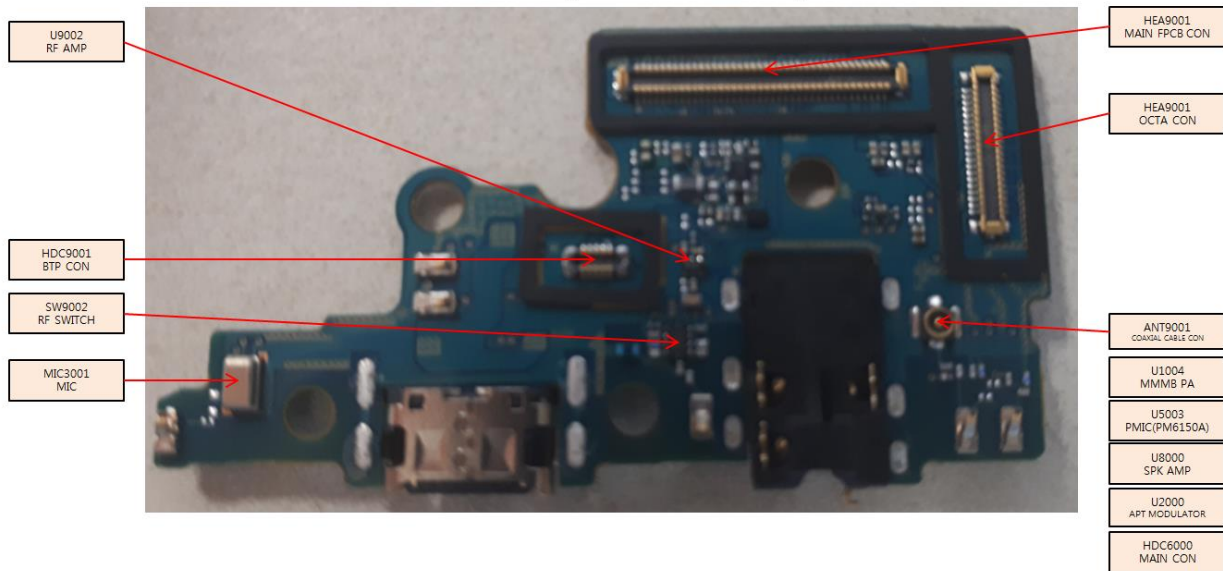


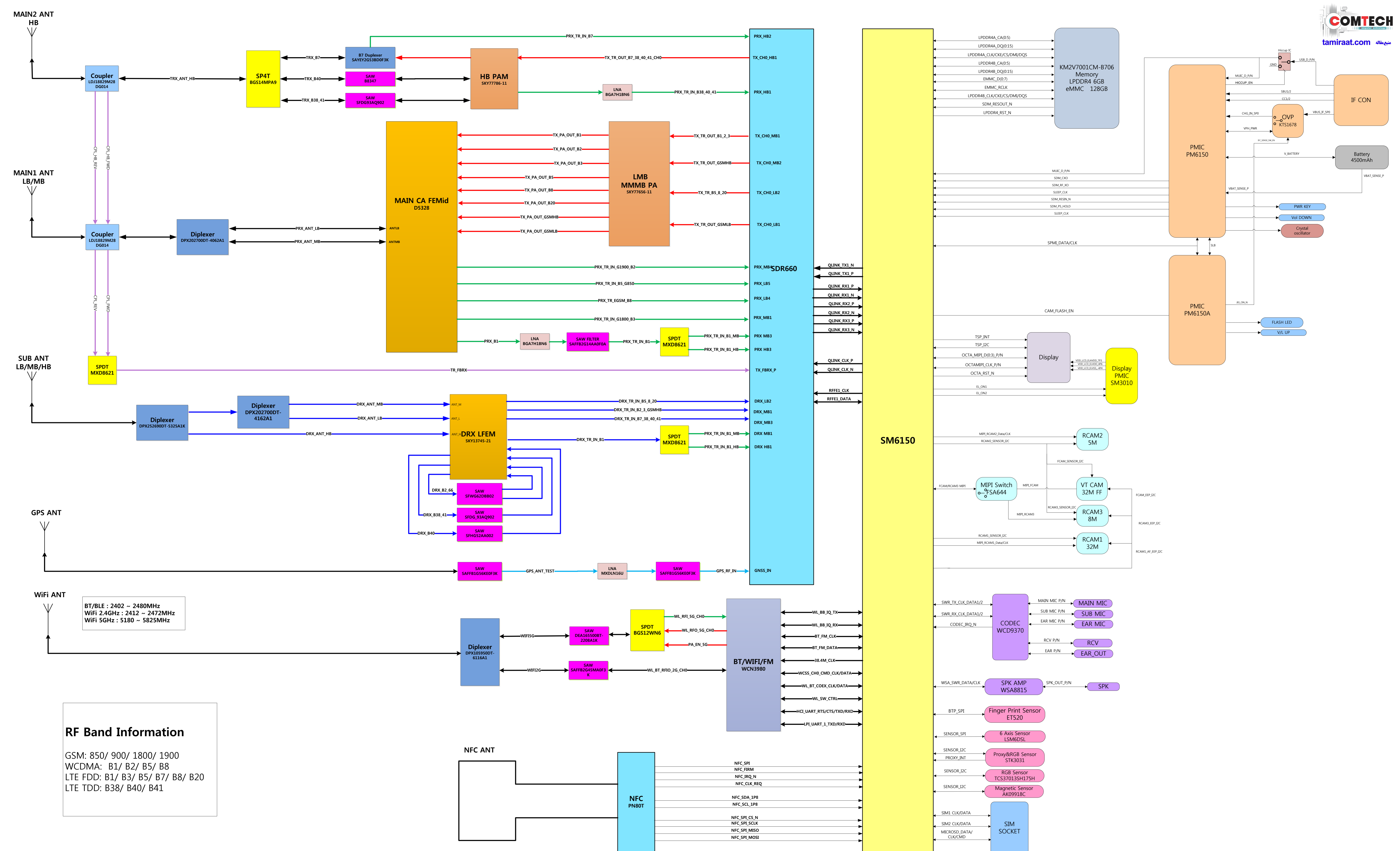
# 8. Level 3 Repair

## SUB PBA (TOP SIDE)



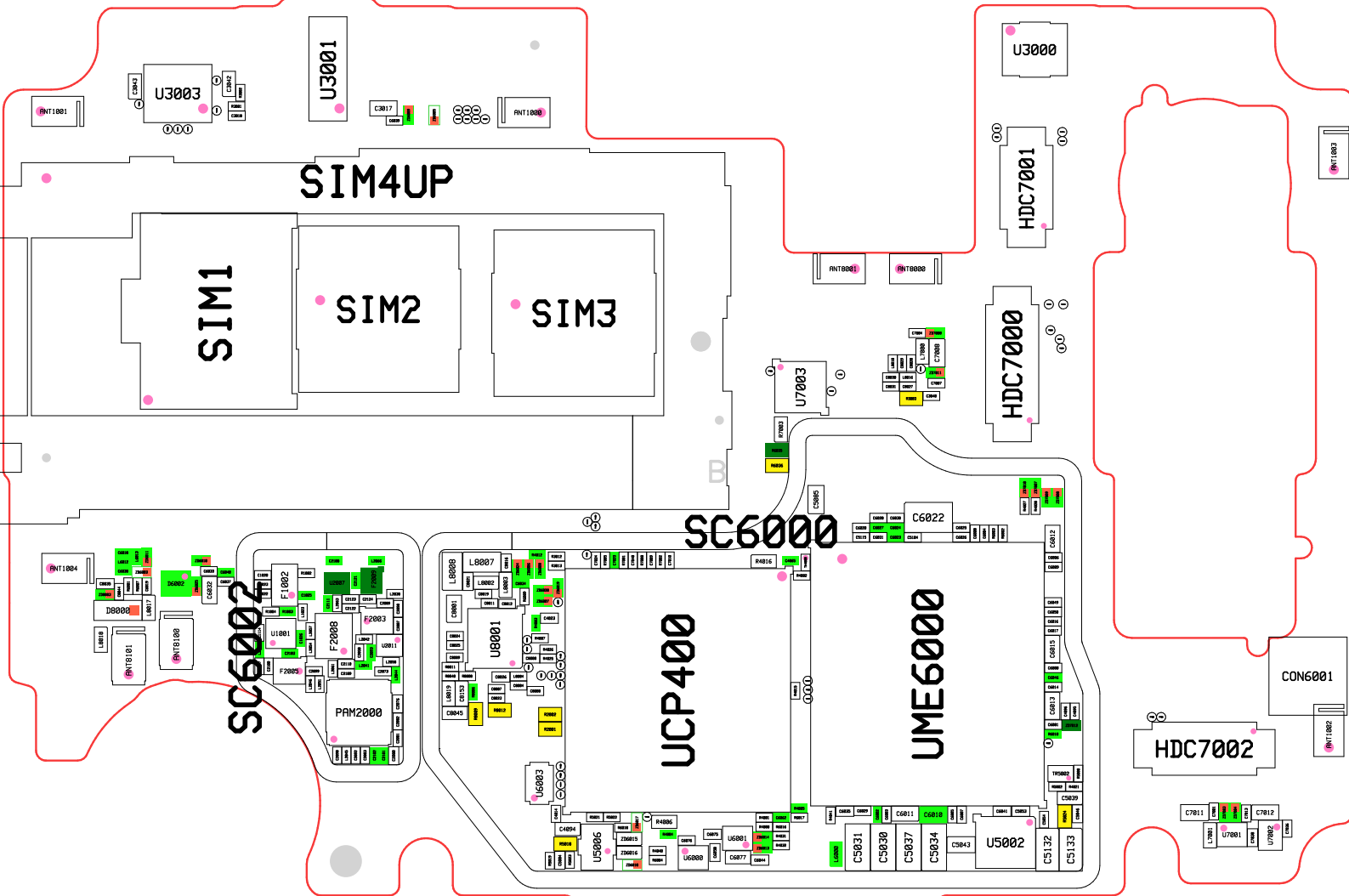
## SUB PBA (BOTTOM SIDE)





**RF Band Information**

GSM: 850/ 900/ 1800/ 1900  
WCDMA: B1/ B2/ B5/ B8  
LTE FDD: B1/ B3/ B5/ B7/ B8/ B20  
LTE TDD: B38/ B40/ B41





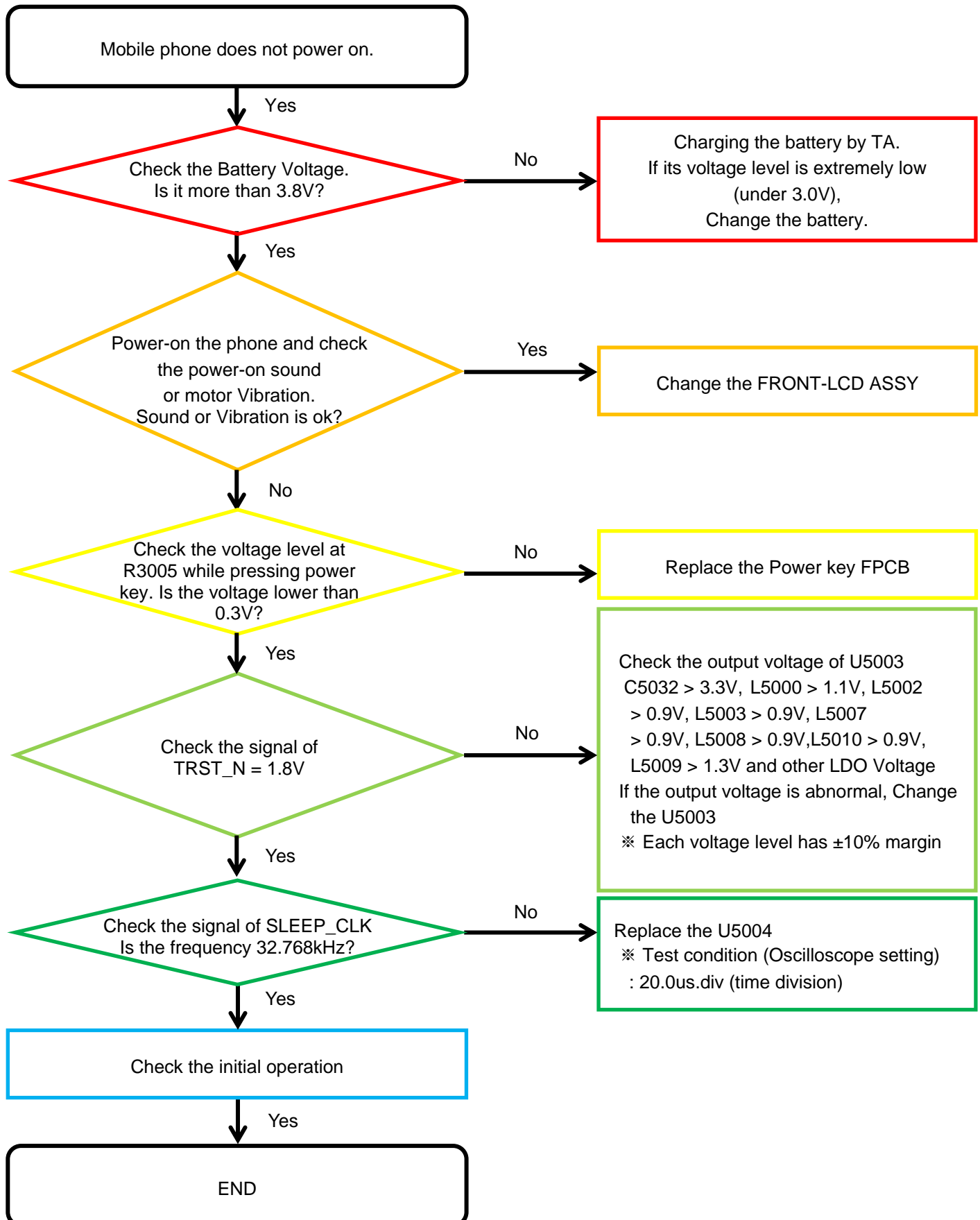
## 8. Level 3 Repair

### 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>

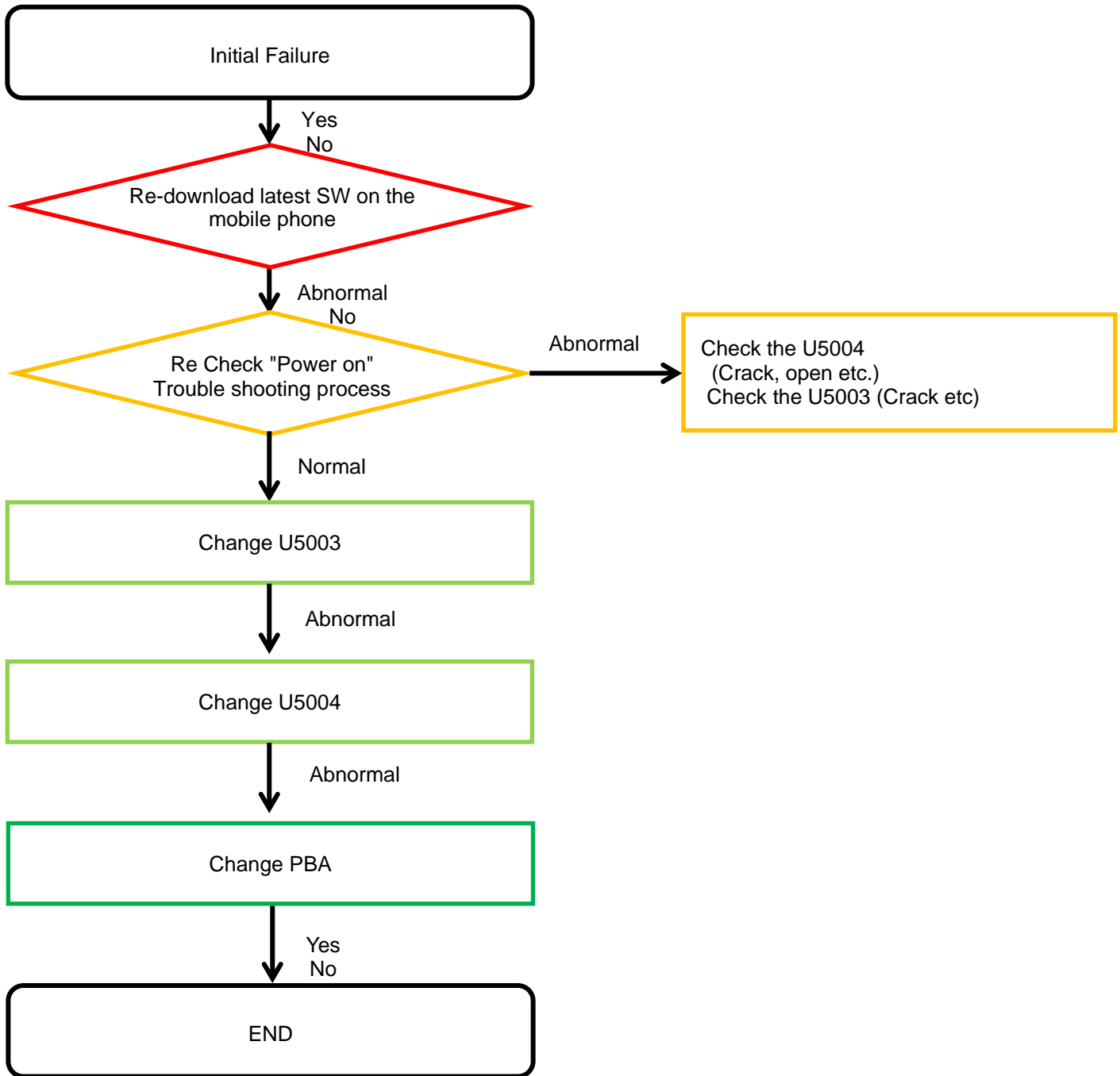
## 8. Level 3 Repair

### 8-4-1. Power On



## 8. Level 3 Repair

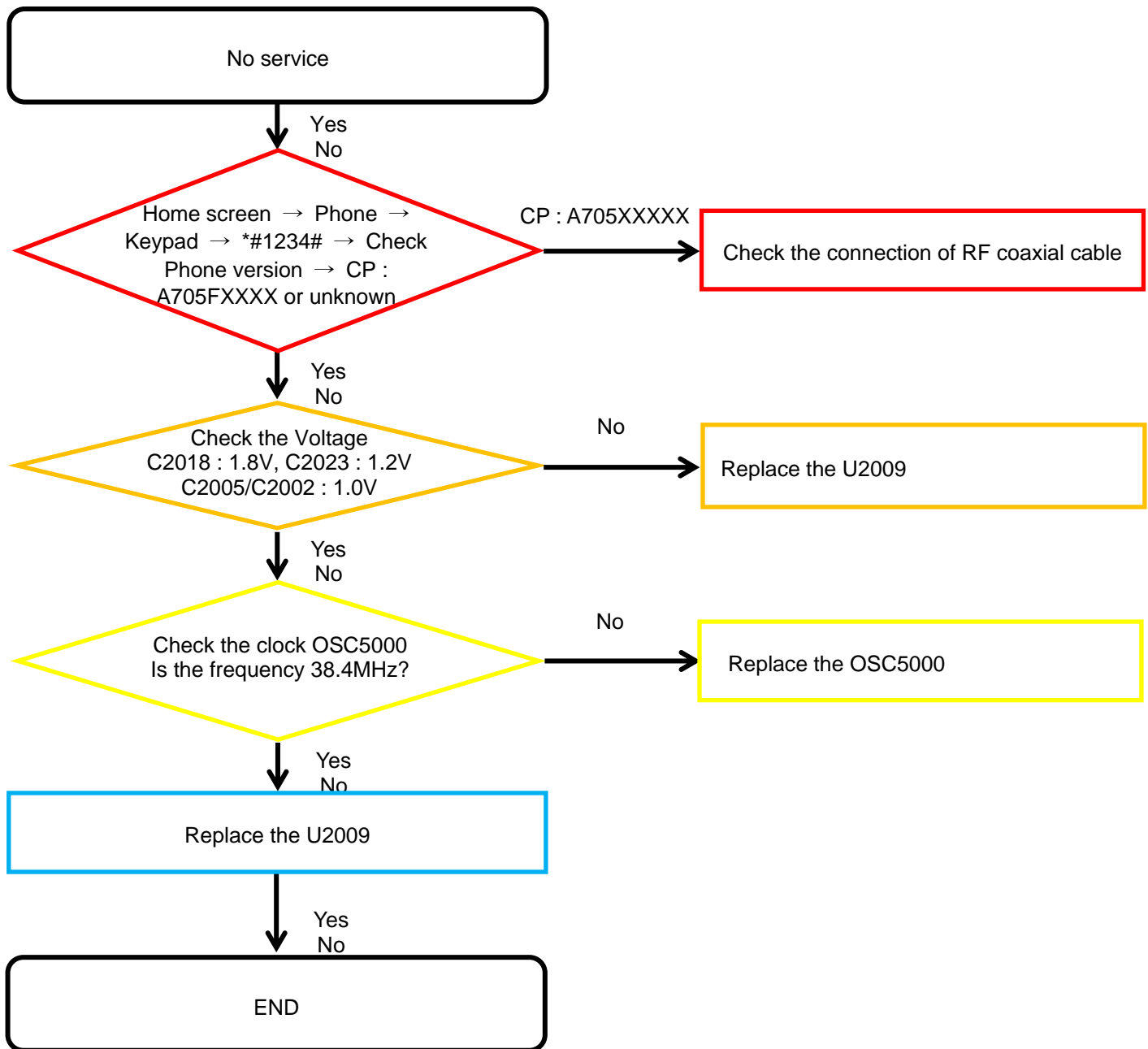
### 8-4-2. Initial





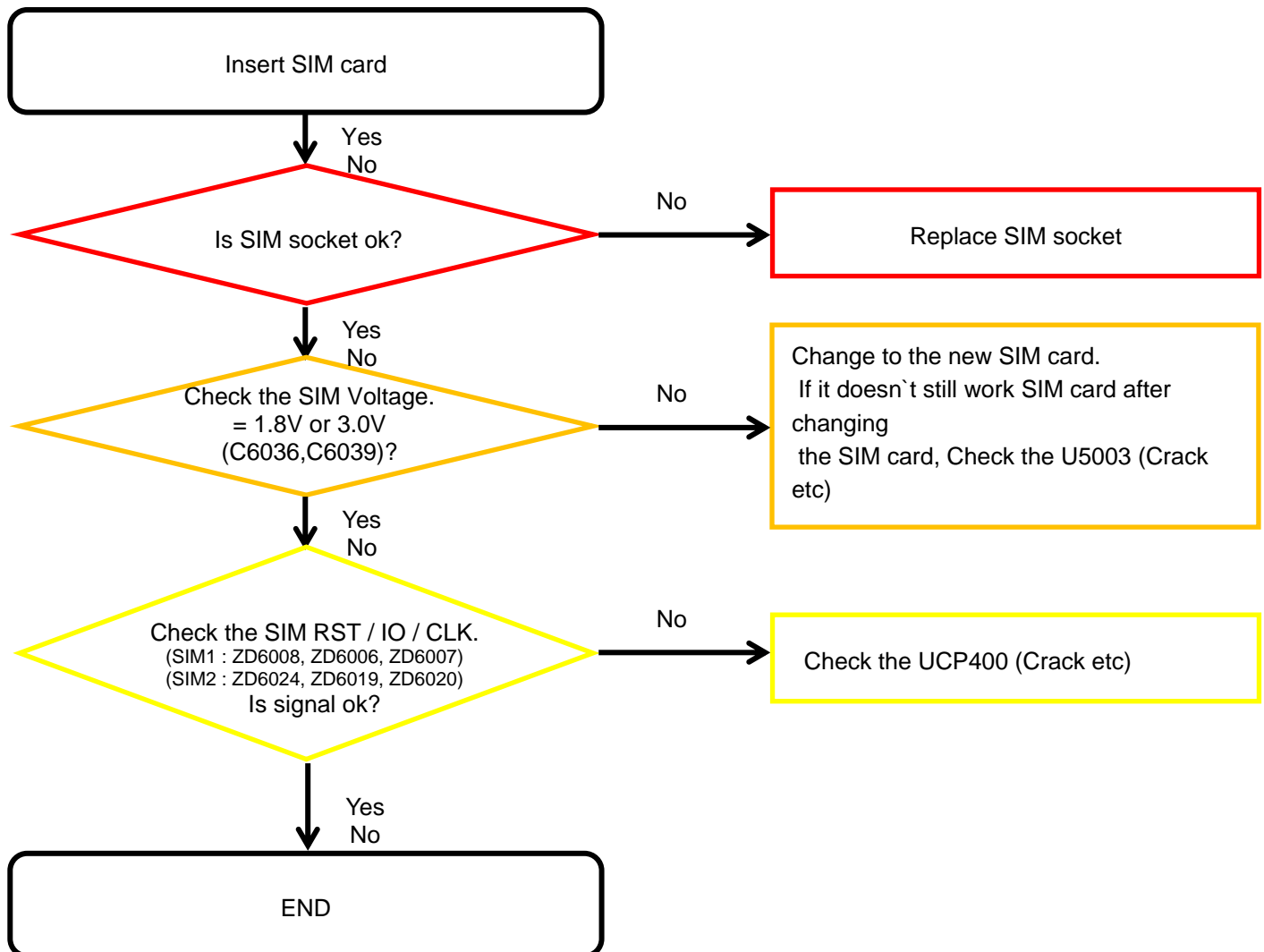
## 8. Level 3 Repair

### 8-4-3. No Service



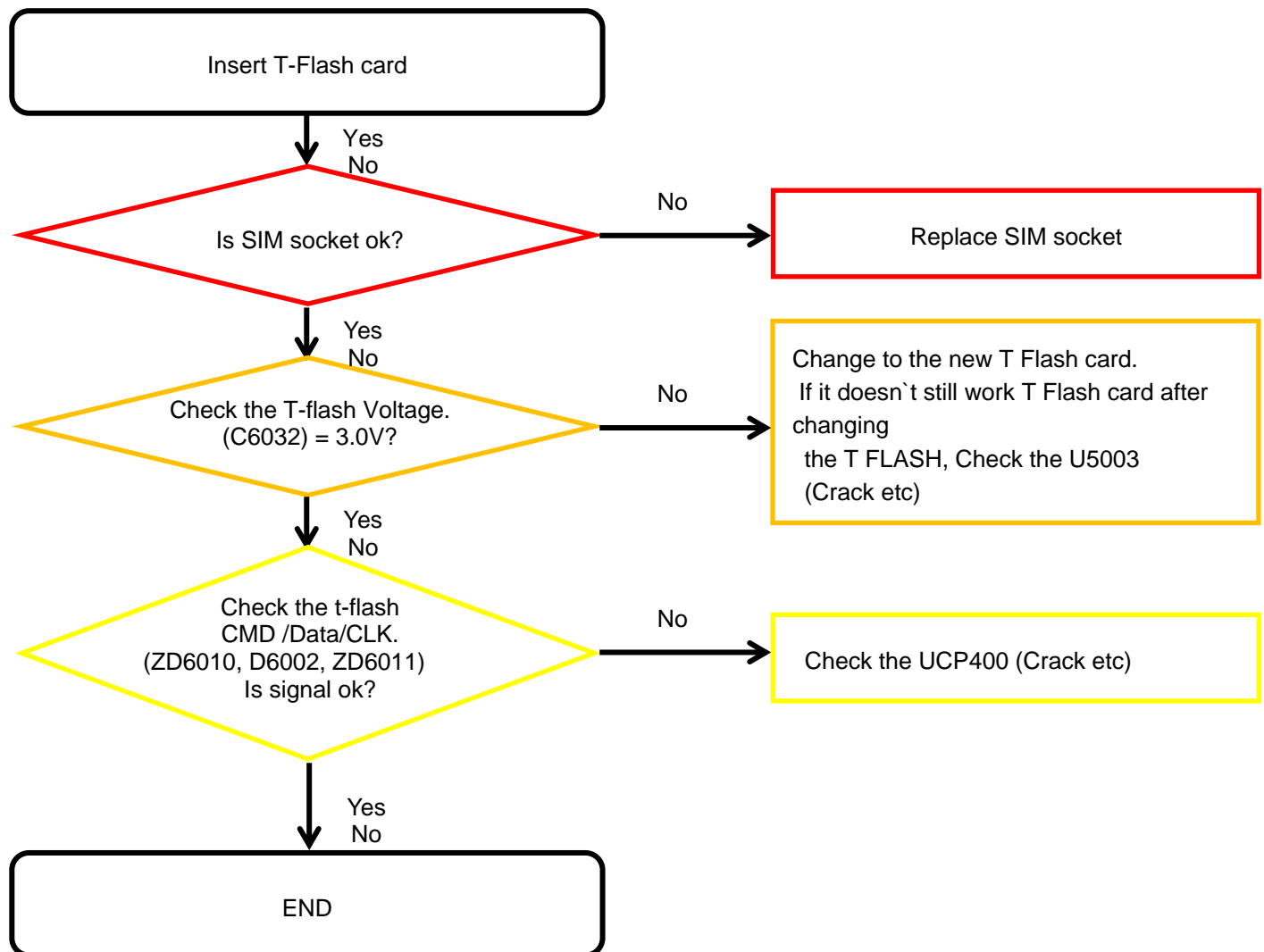
## 8. Level 3 Repair

### 8-4-4. SIM Part



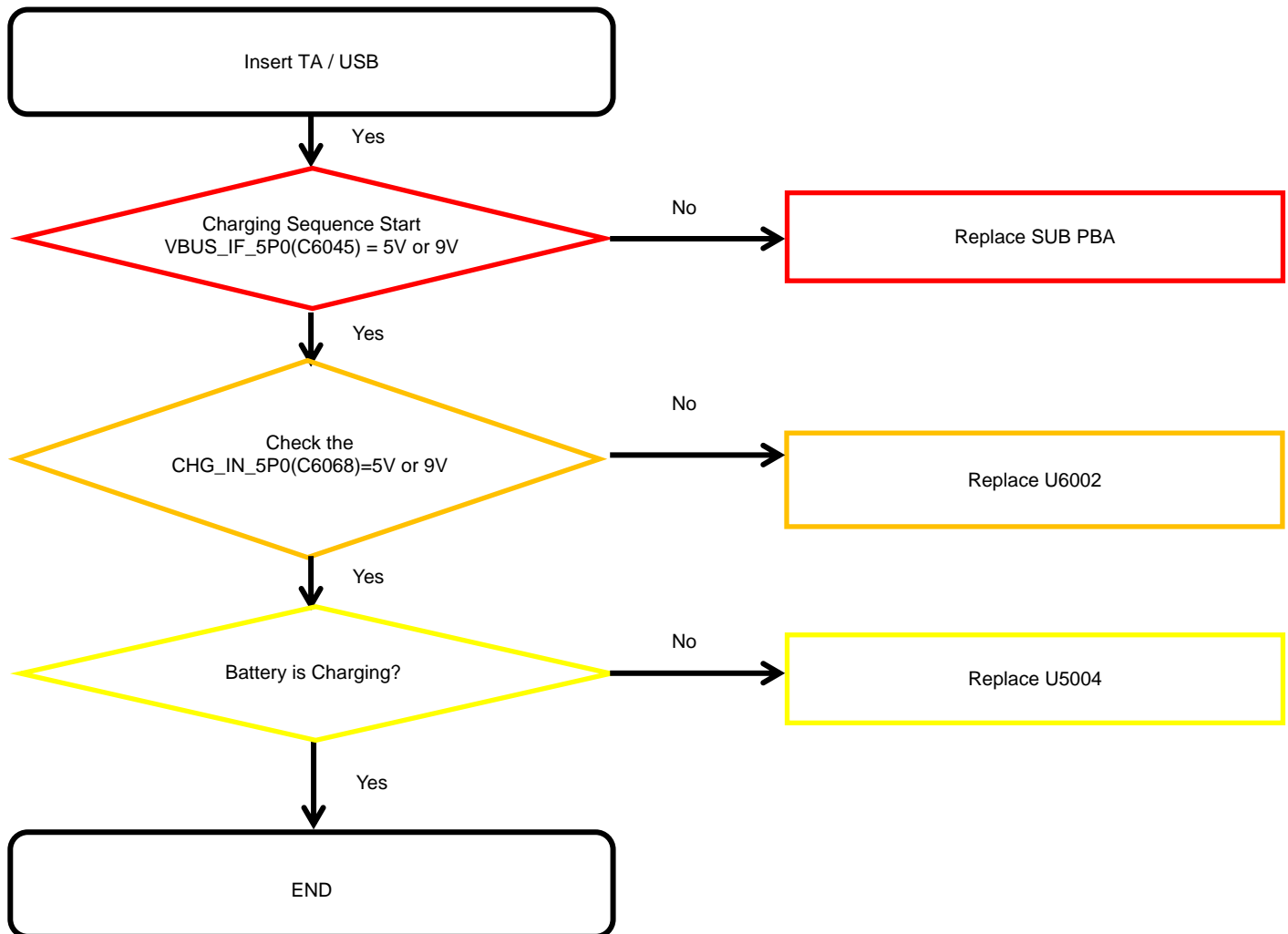
## 8. Level 3 Repair

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



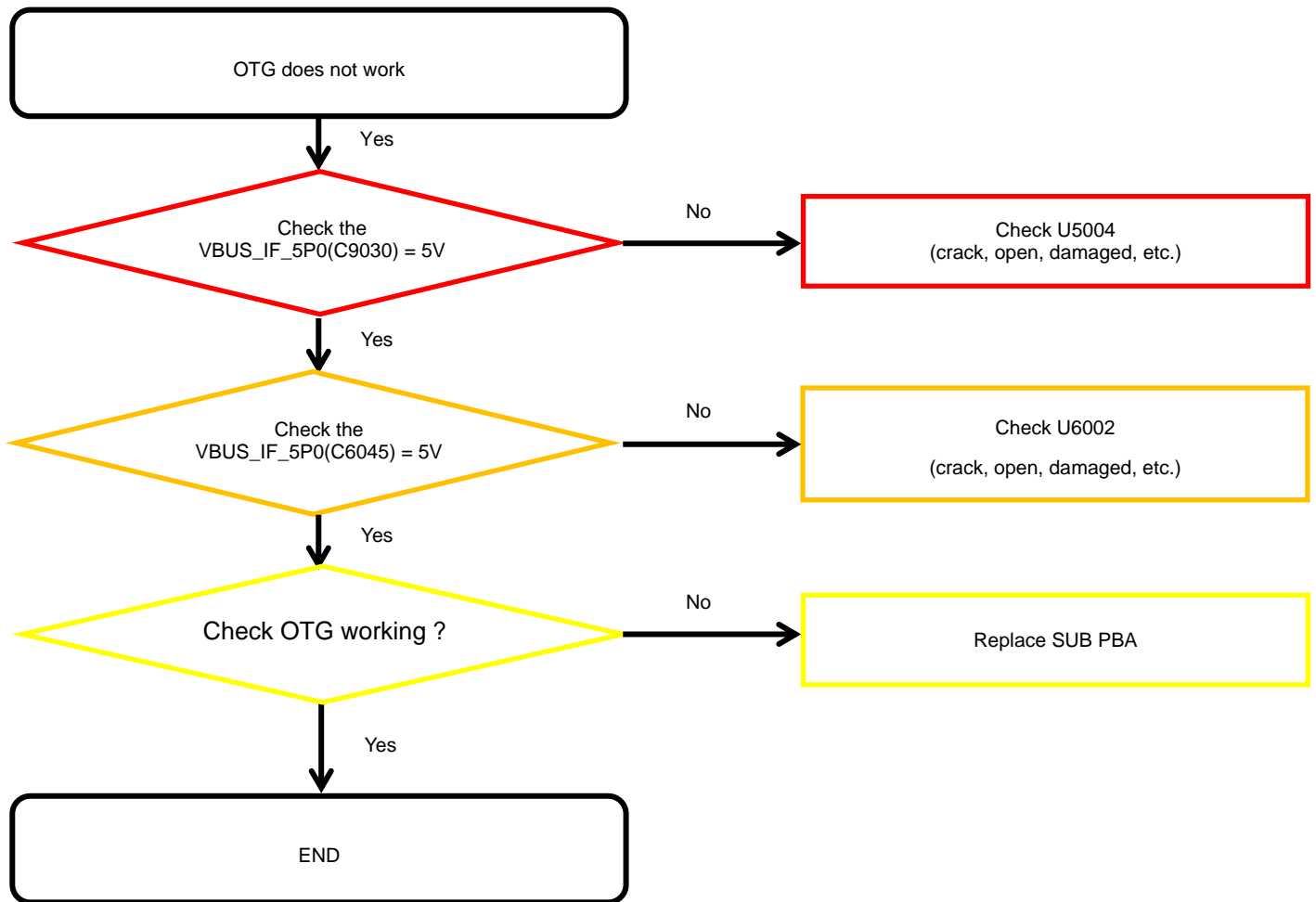
## 8. Level 3 Repair

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



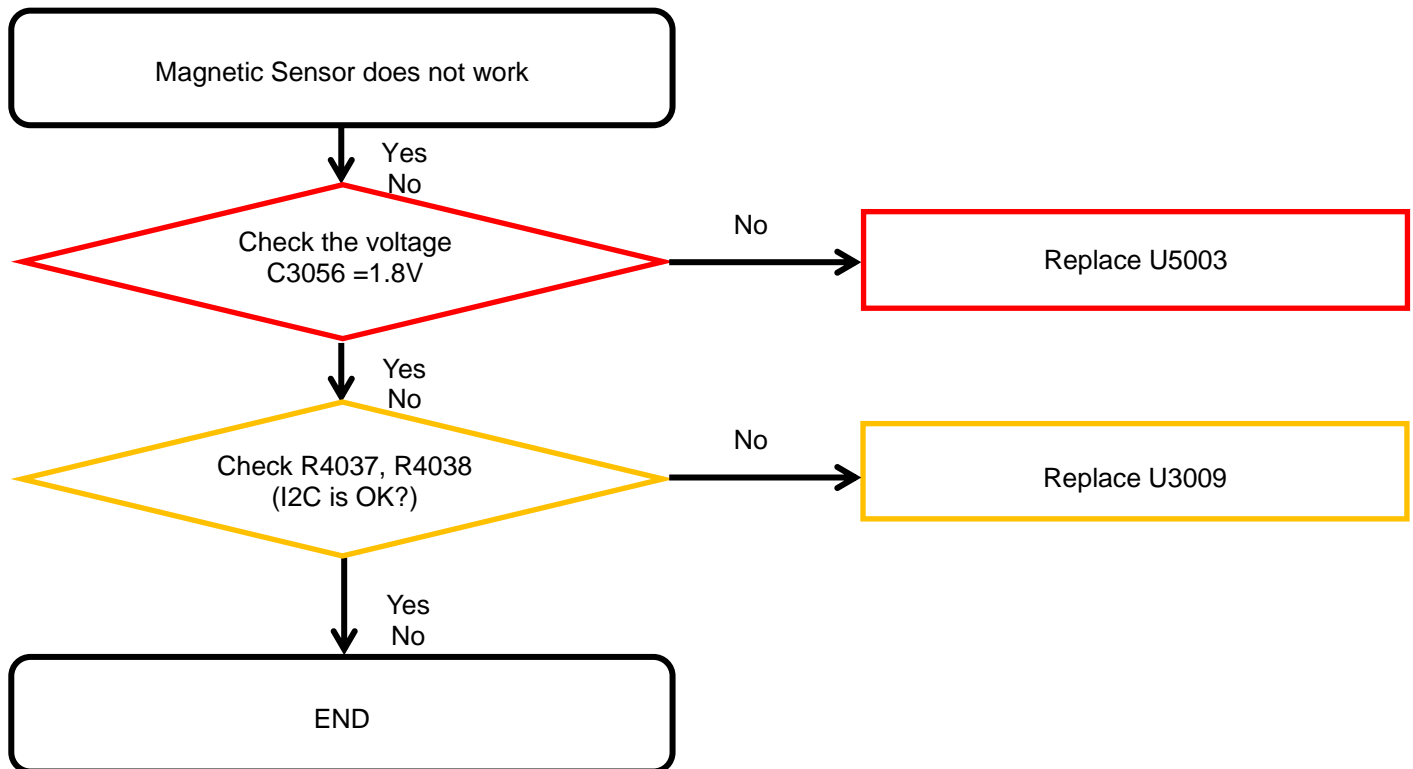
## 8. Level 3 Repair

### 8-4-7. OTG



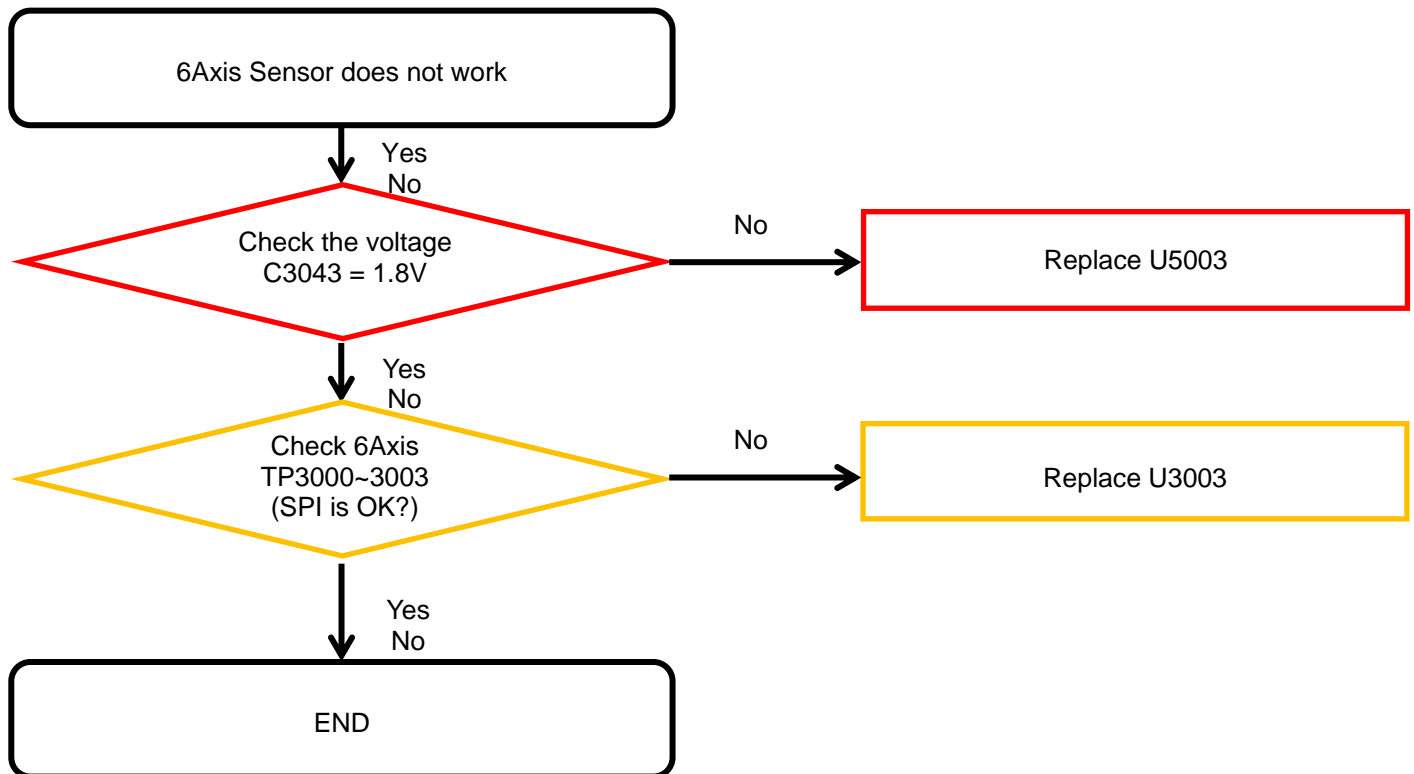
## 8. Level 3 Repair

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



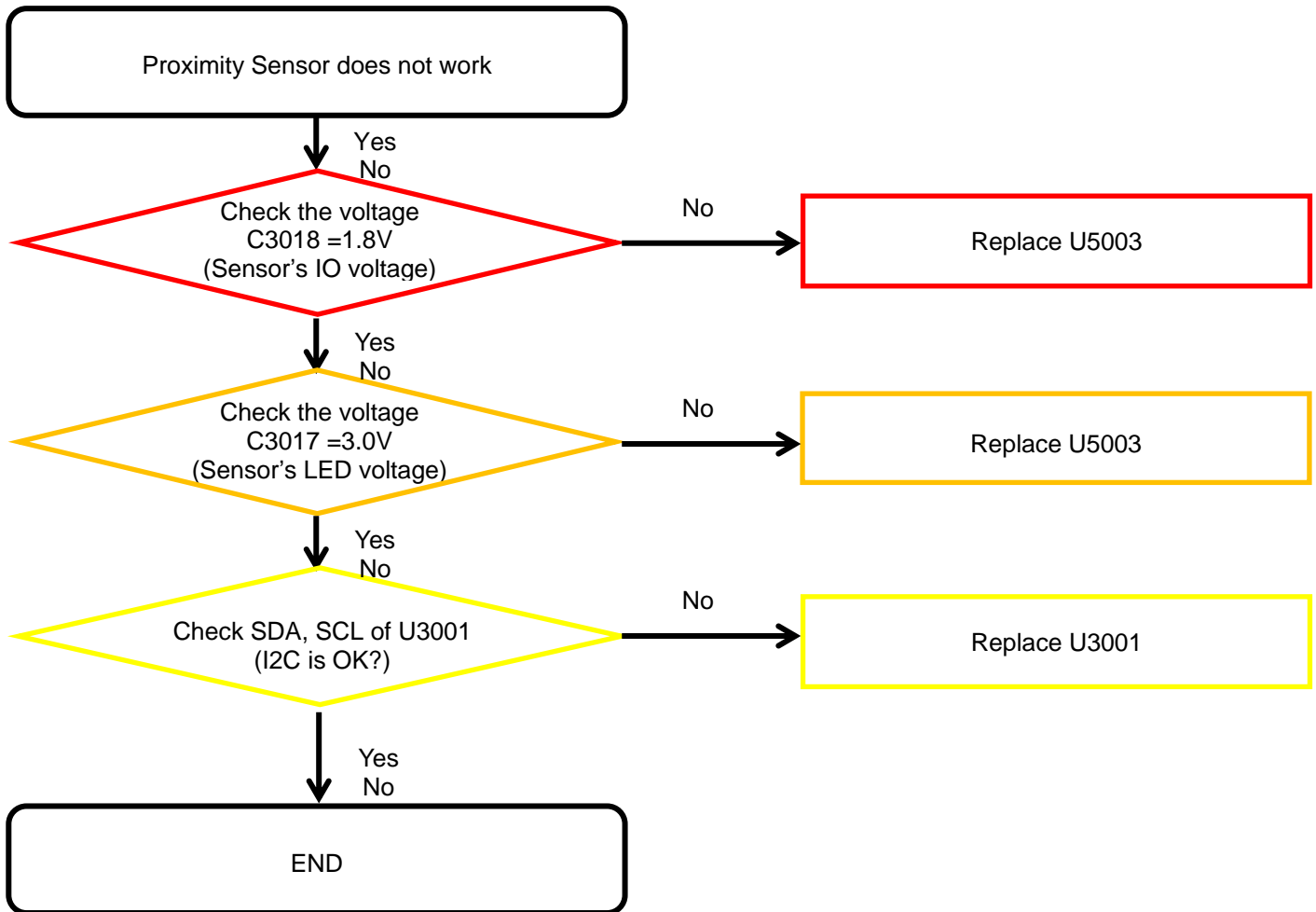
## 8. Level 3 Repair

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



## 8. Level 3 Repair

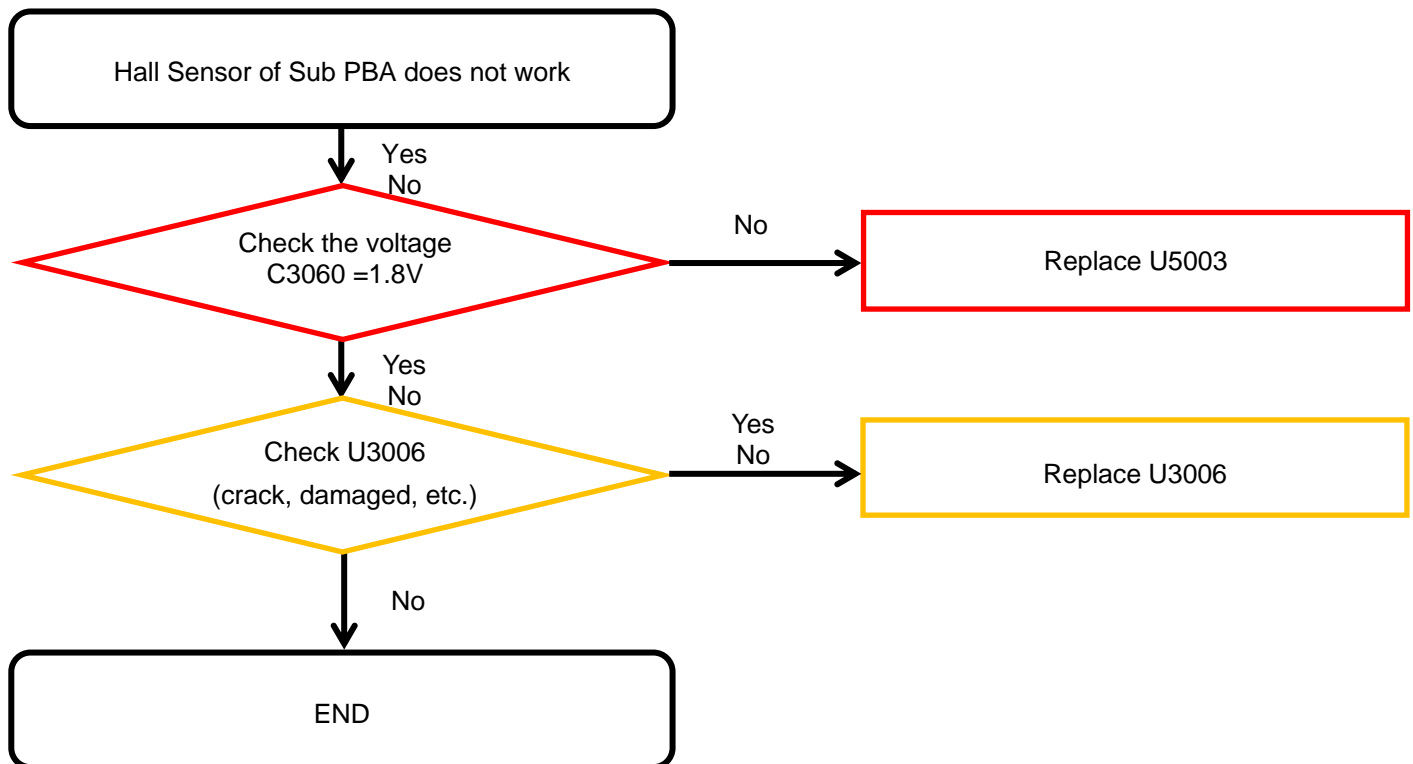
### 8-4-8-3. Proximity





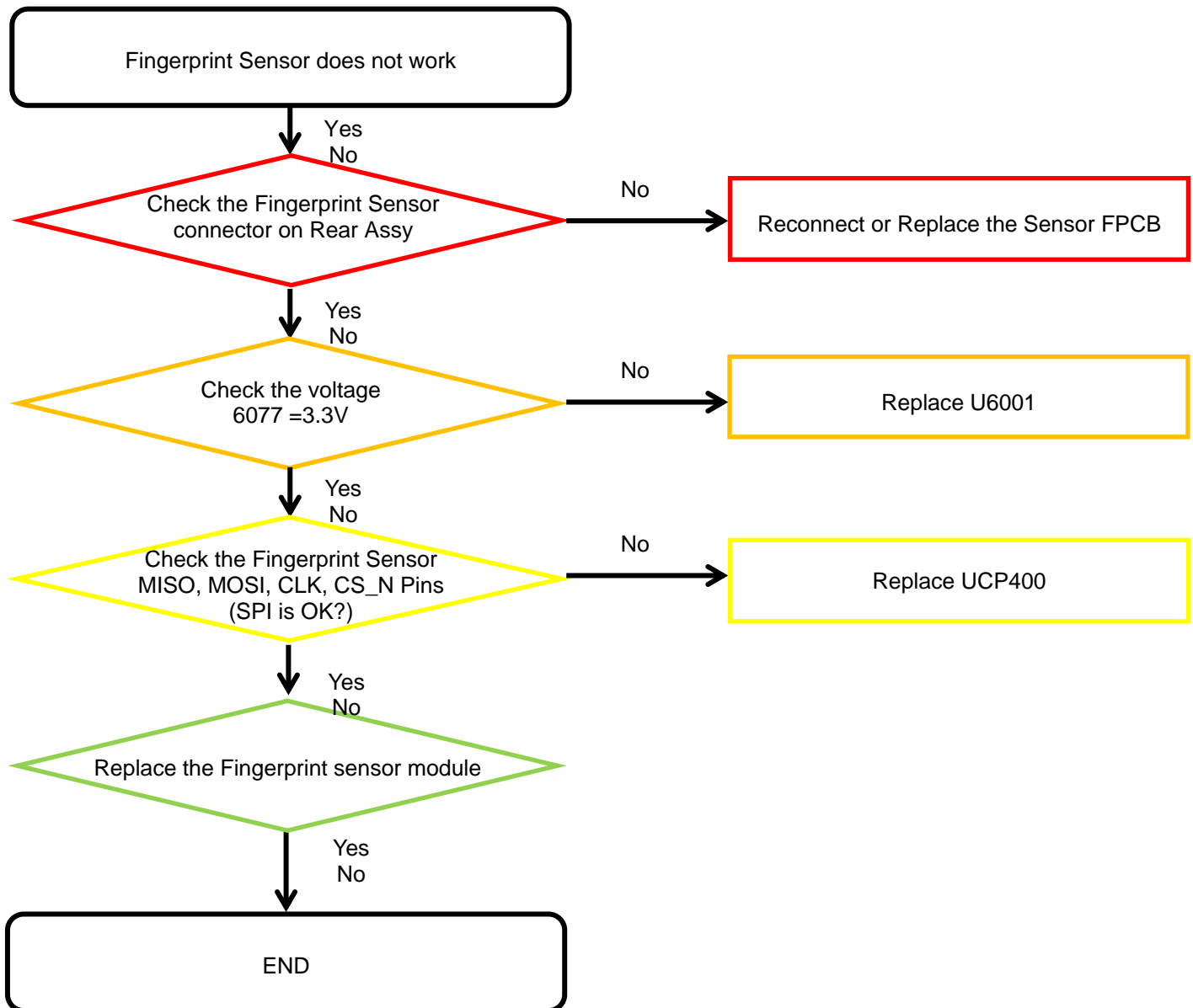
## 8. Level 3 Repair

### 8-4-8-4. Hall Sensor



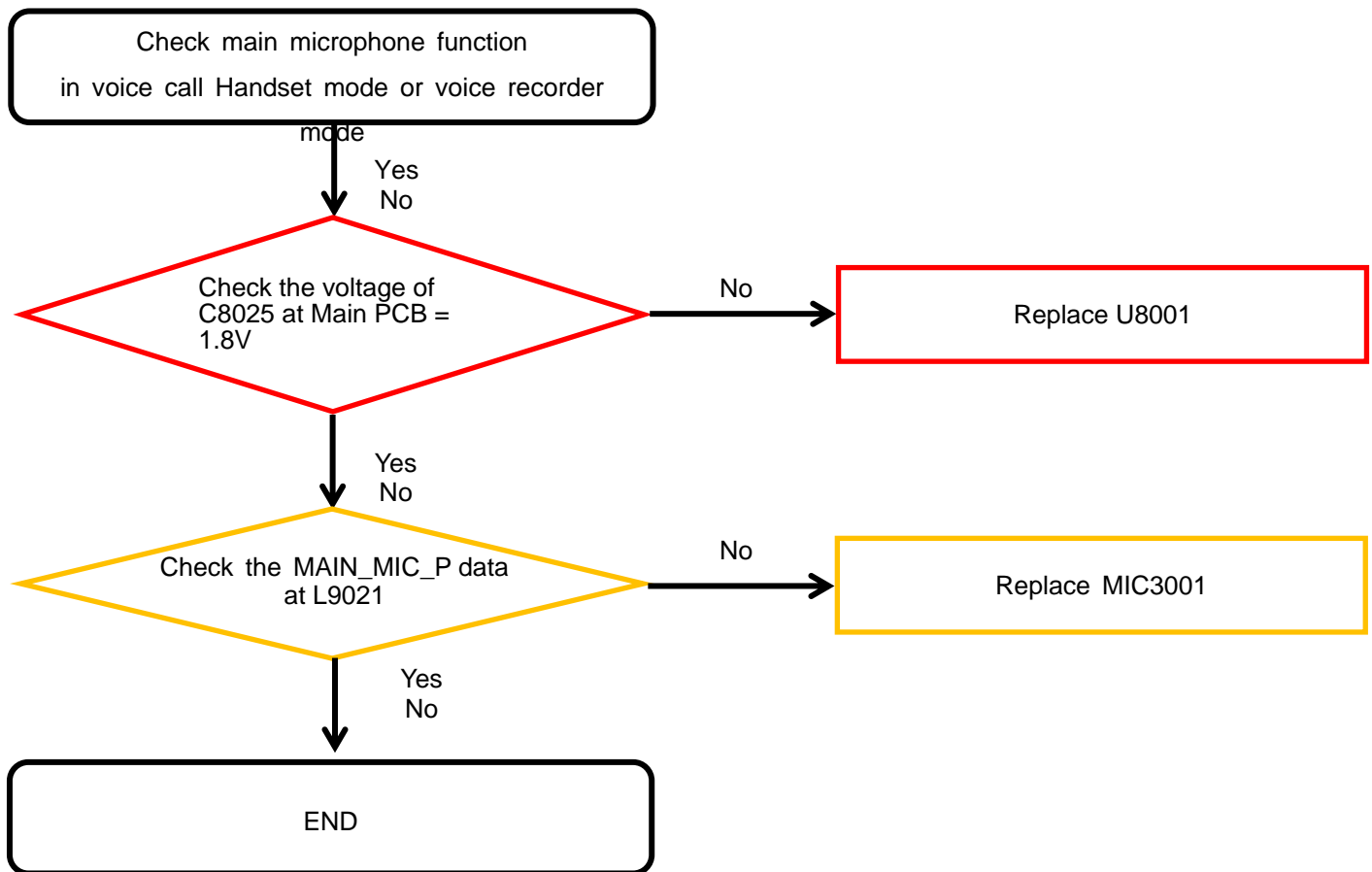
## 8. Level 3 Repair

### 8-4-8-5. Fingerprint Sensor



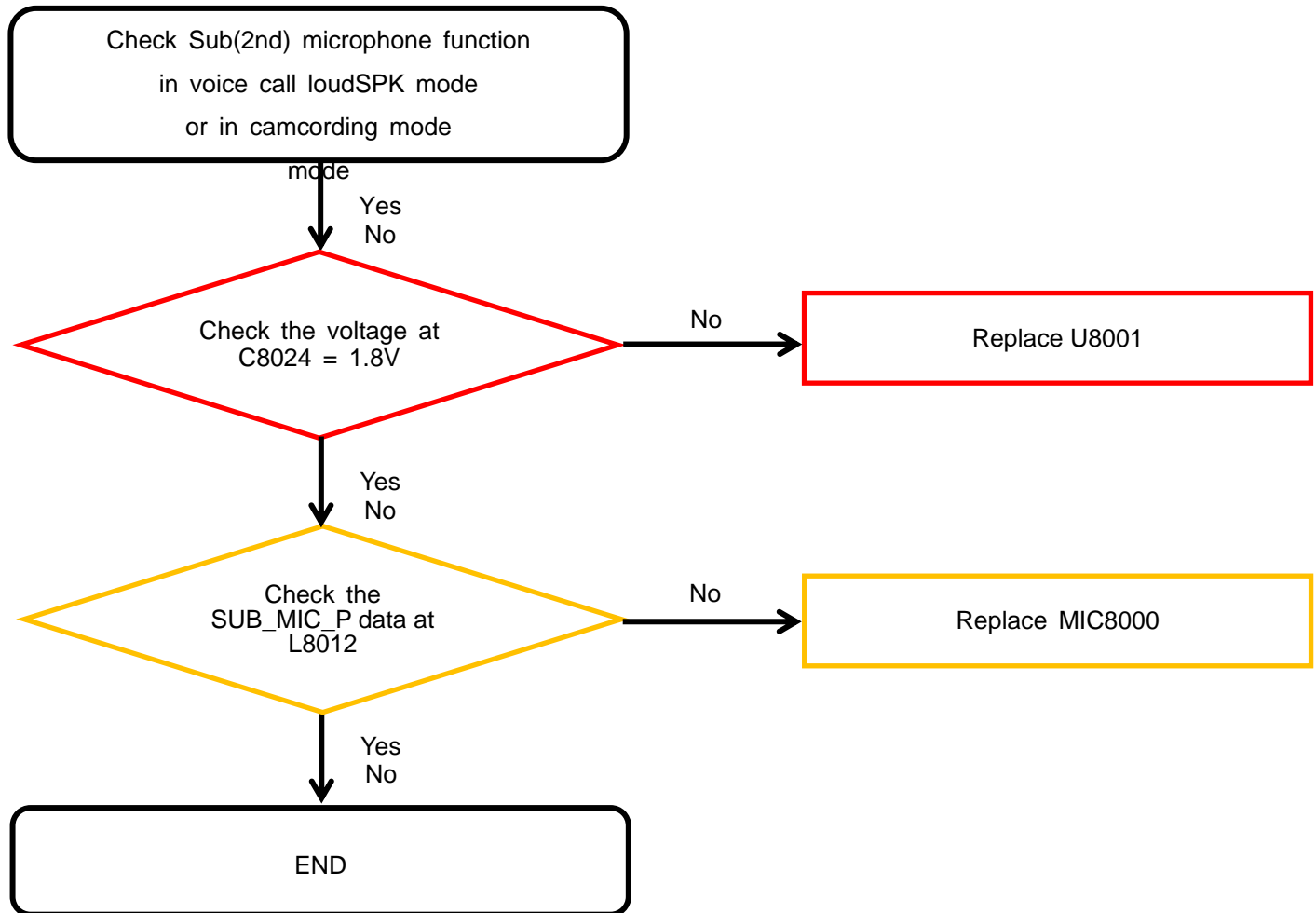
## 8. Level 3 Repair

### 8-4-9-1. Microphone Part - Main MIC



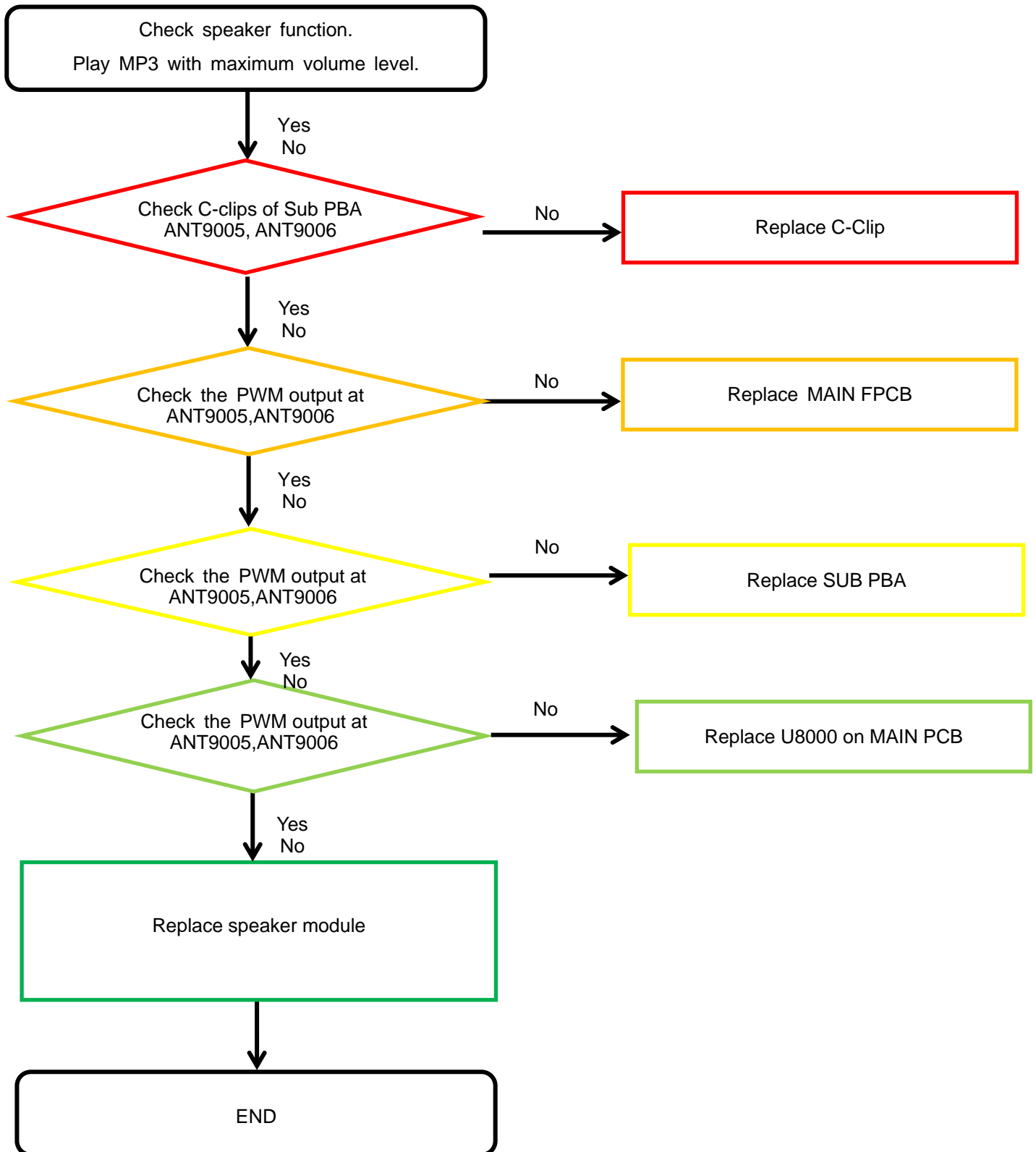
## 8. Level 3 Repair

### 8-4-9-2. Microphone Part - Sub(2nd) MIC



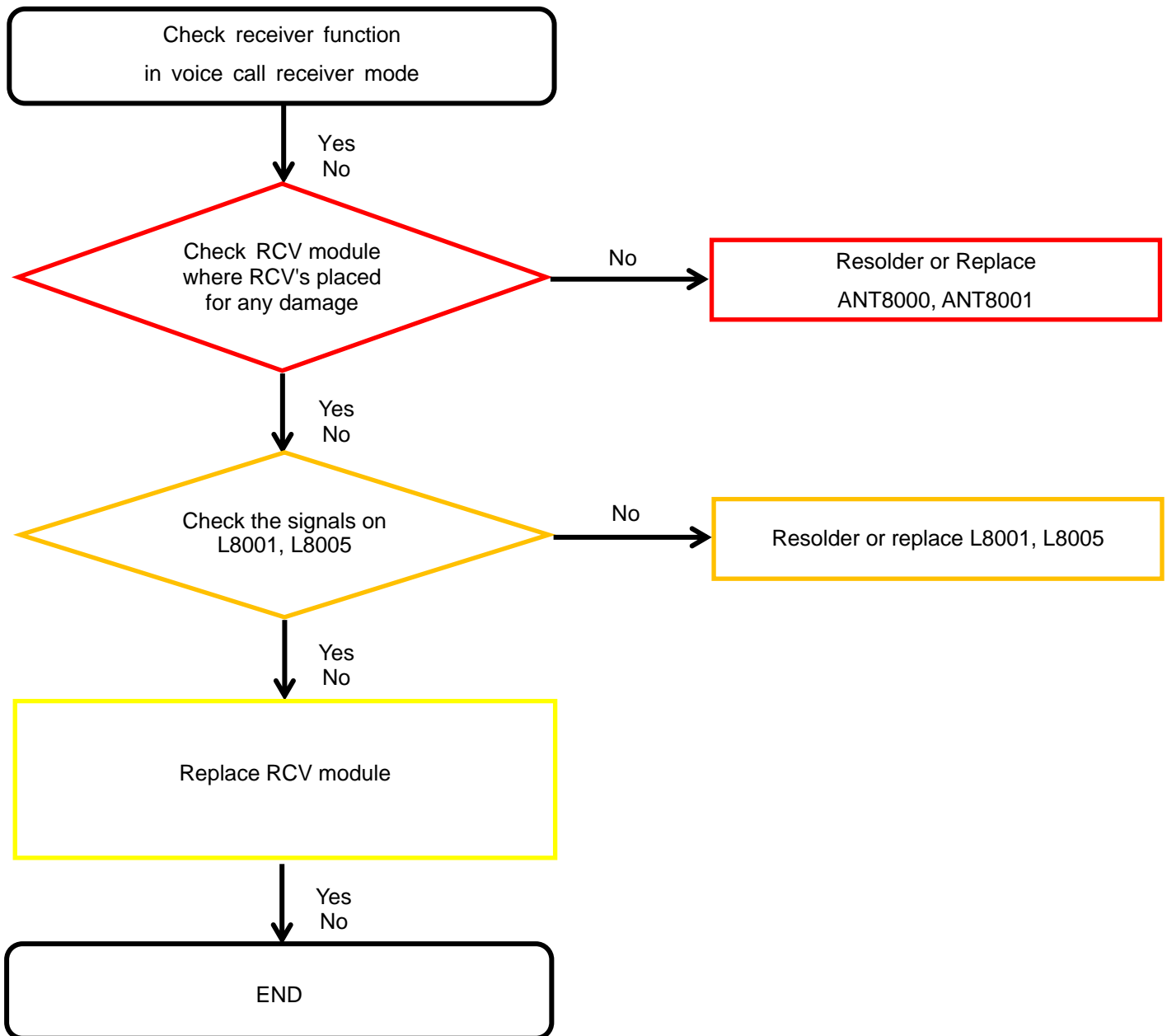
## 8. Level 3 Repair

### 8-4-10. Speaker Part



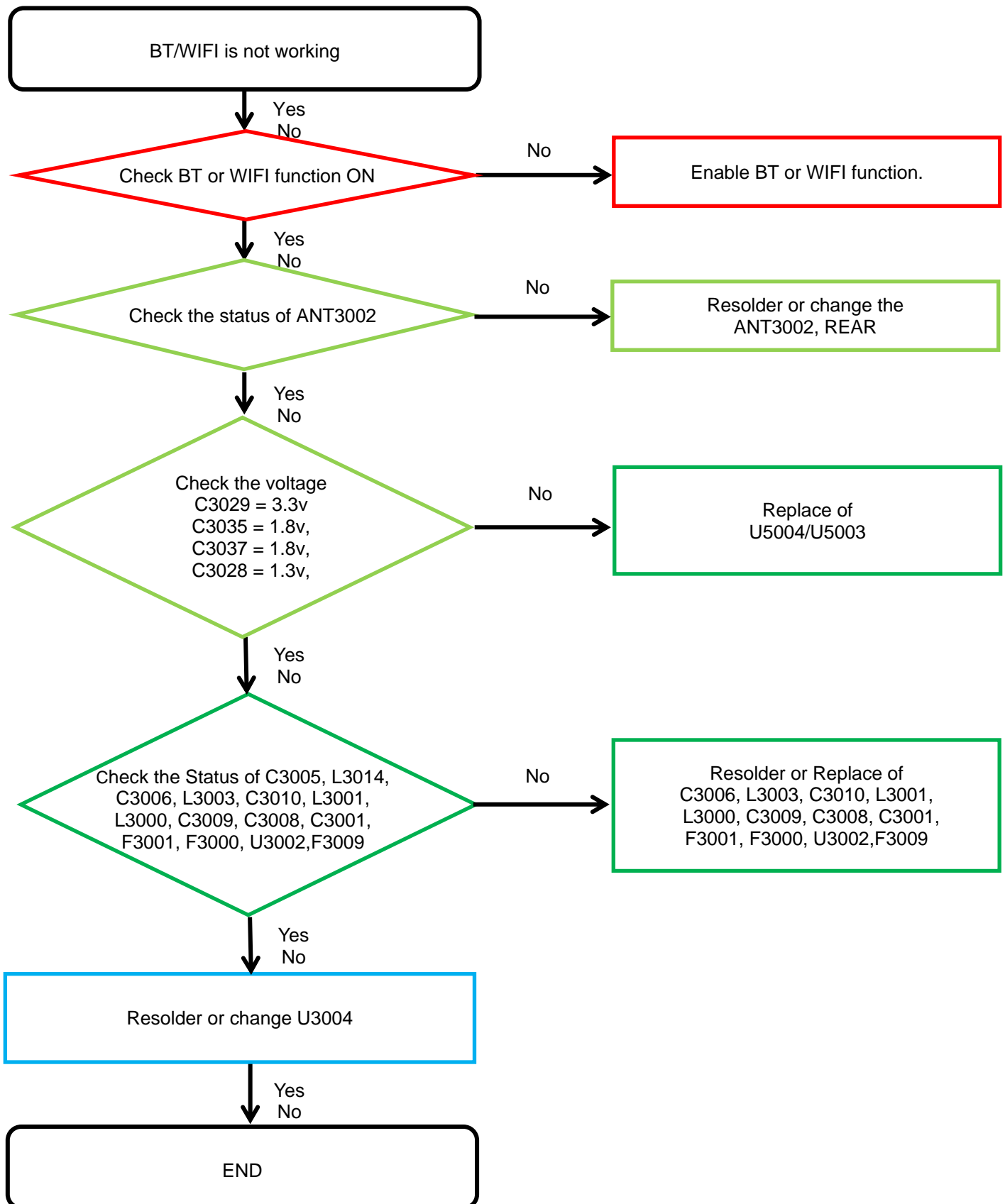
## 8. Level 3 Repair

### 8-4-11. Receiver Part



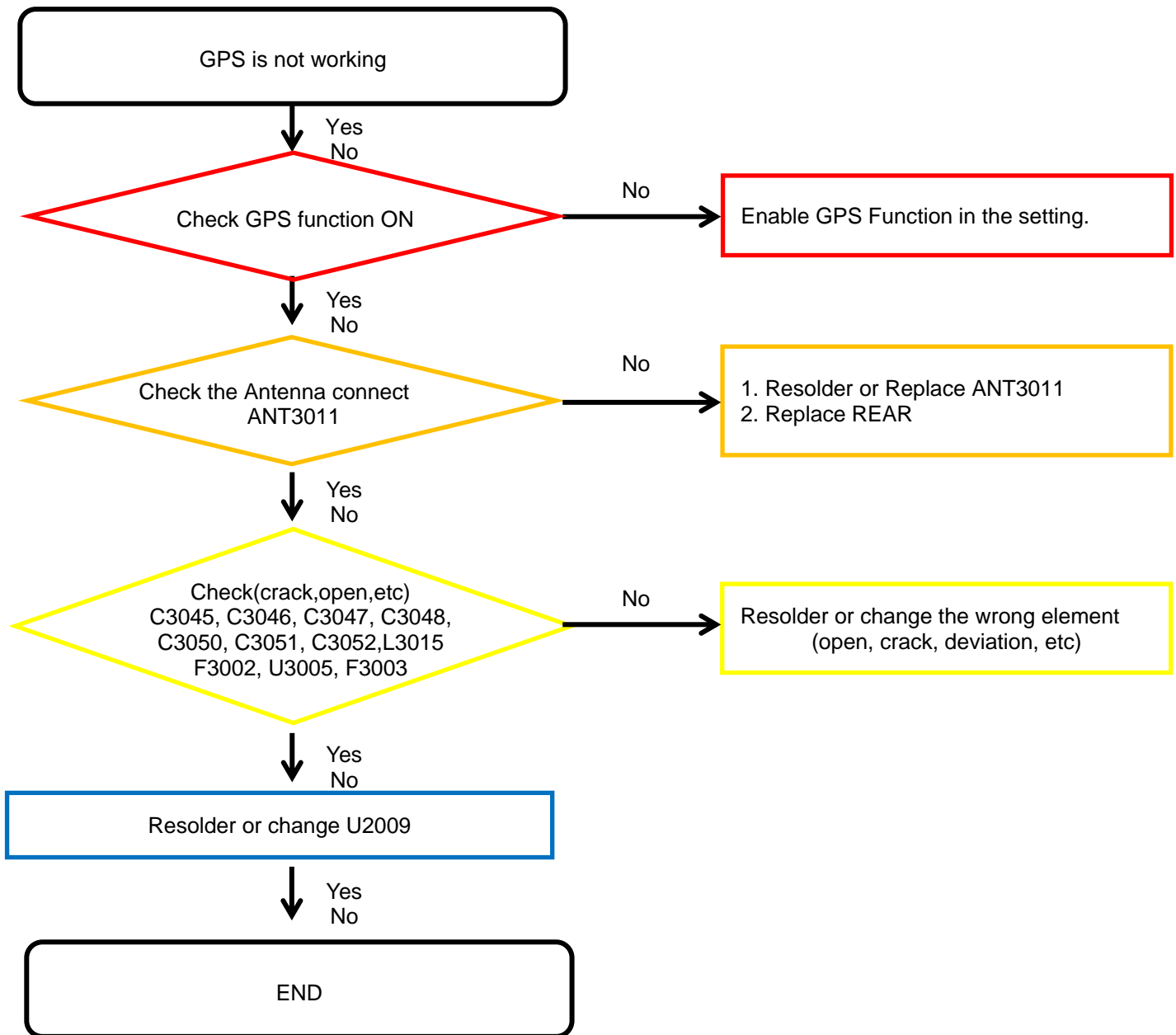
## 8. Level 3 Repair

### 8-4-12. BT/WIFI



## 8. Level 3 Repair

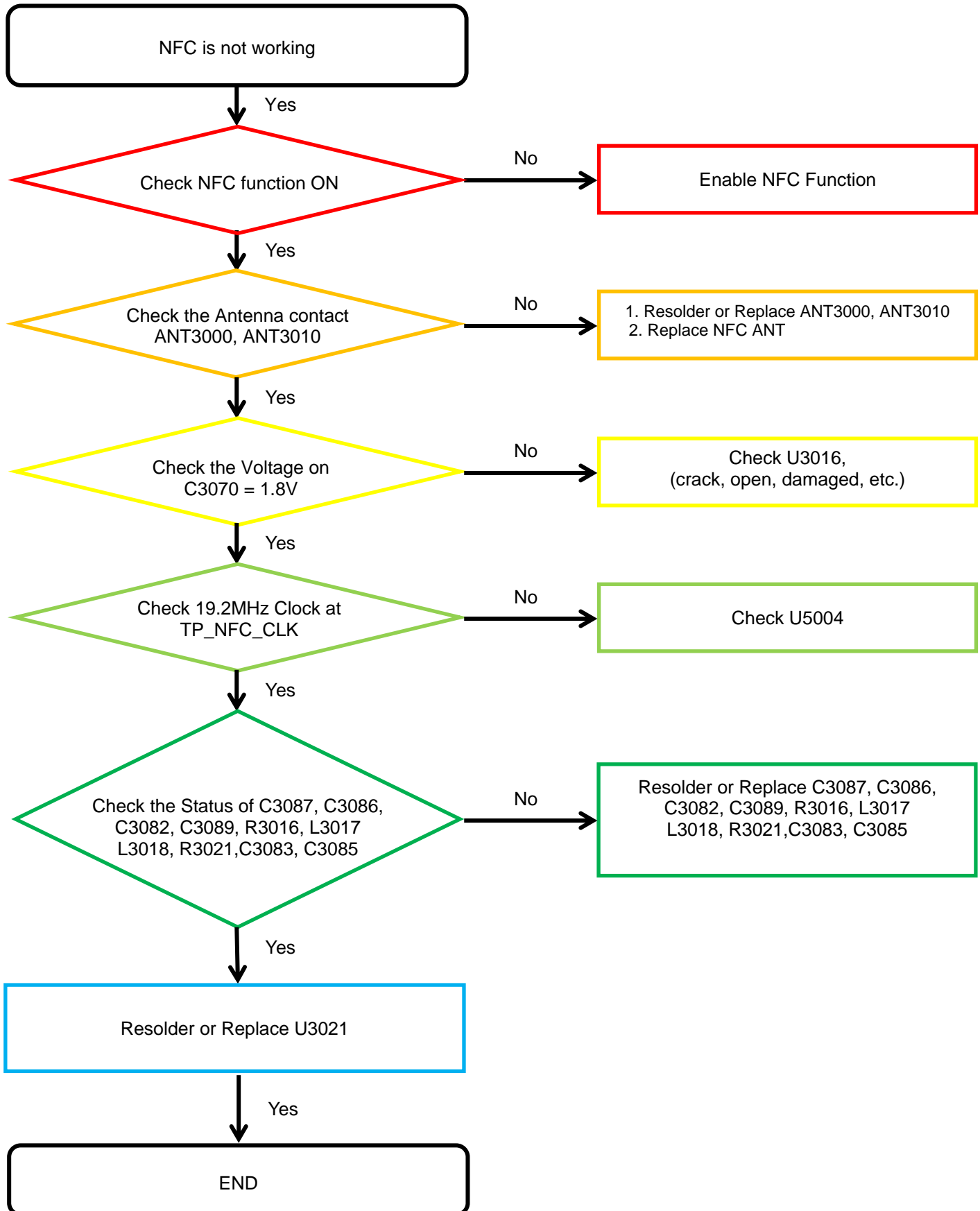
### 8-4-13. GPS





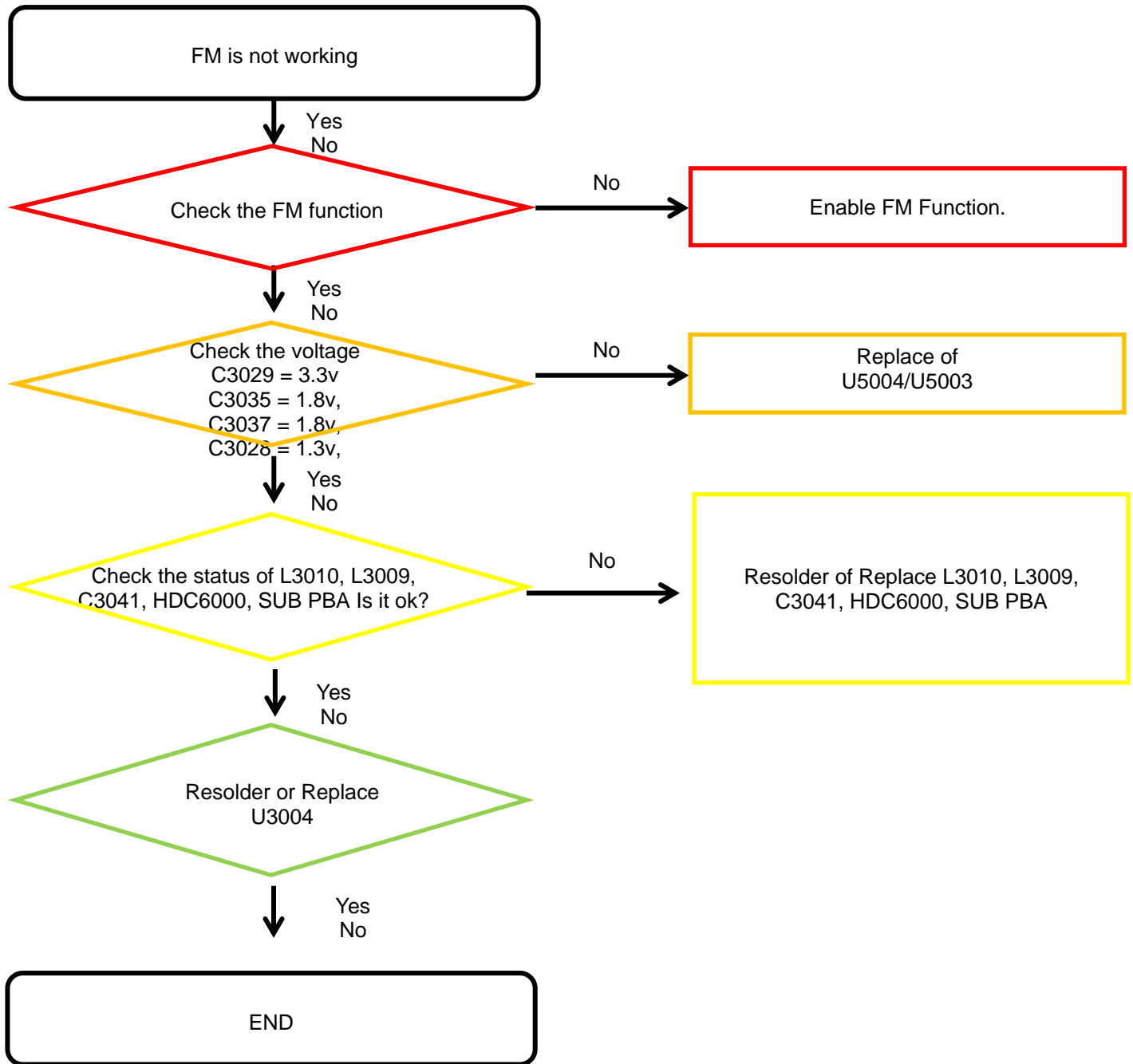
## 8. Level 3 Repair

### 8-4-14. NFC



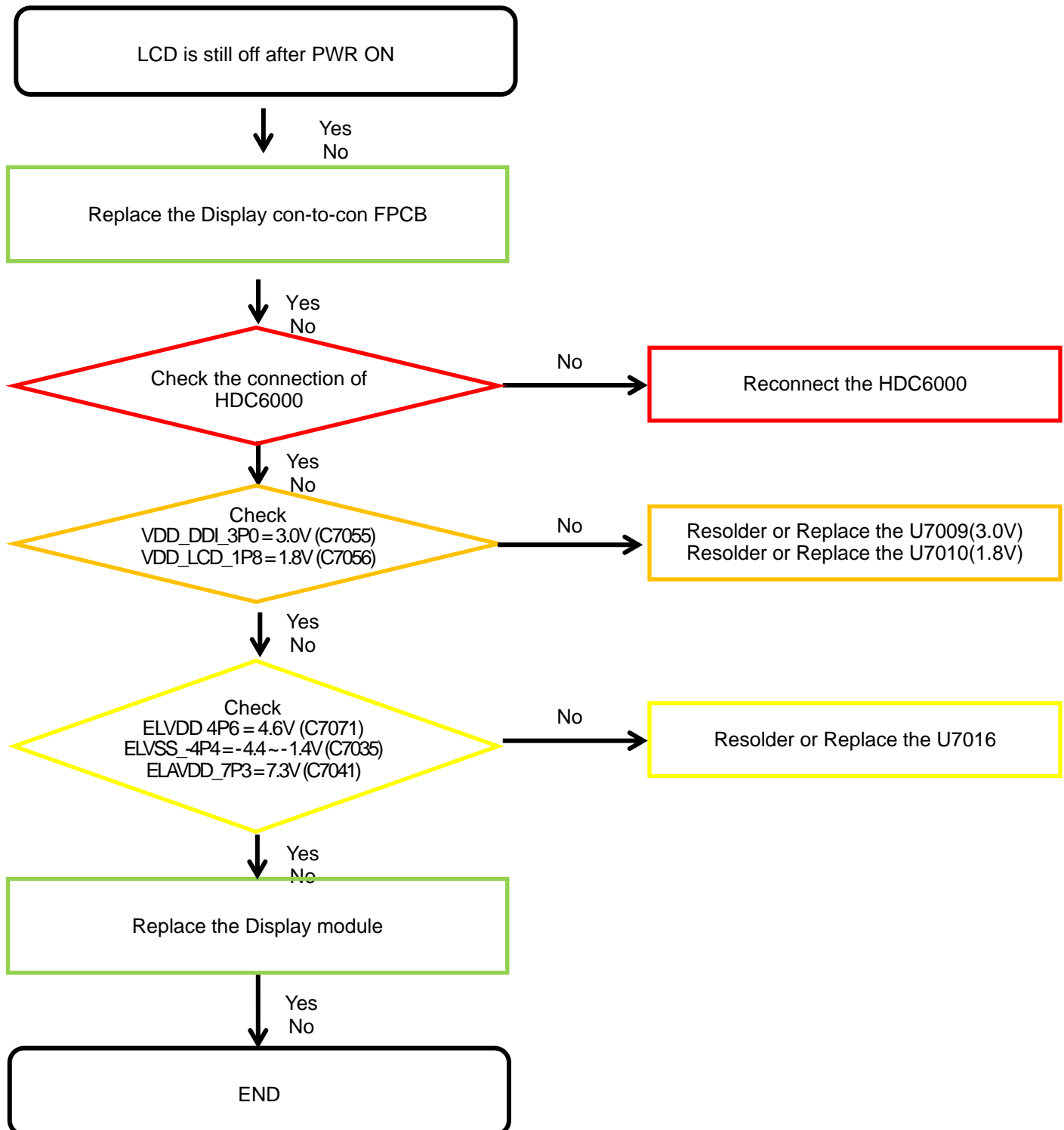
## 8. Level 3 Repair

### 8-4-15. FM radio part



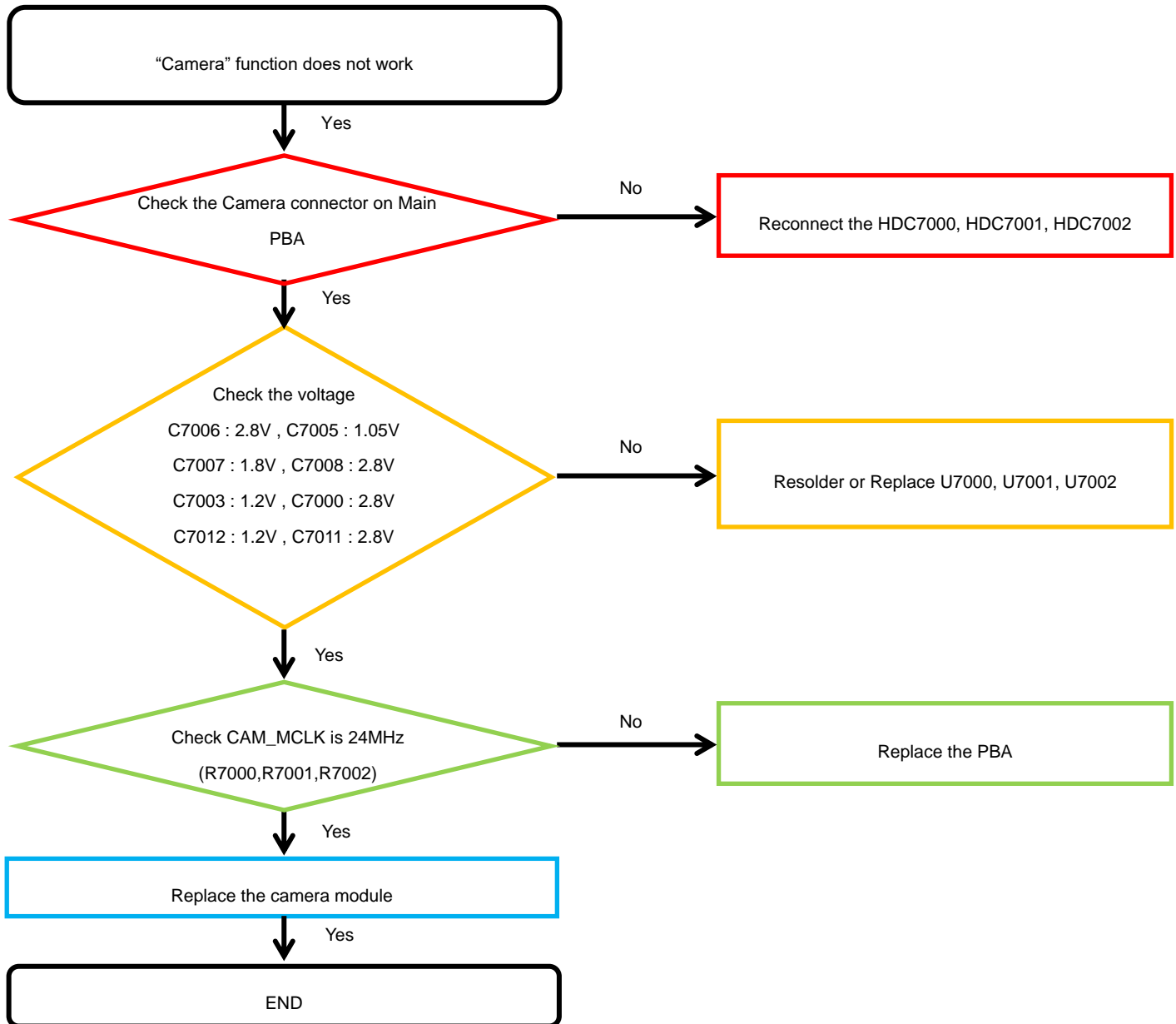
## 8. Level 3 Repair

### 8-4-16. Display



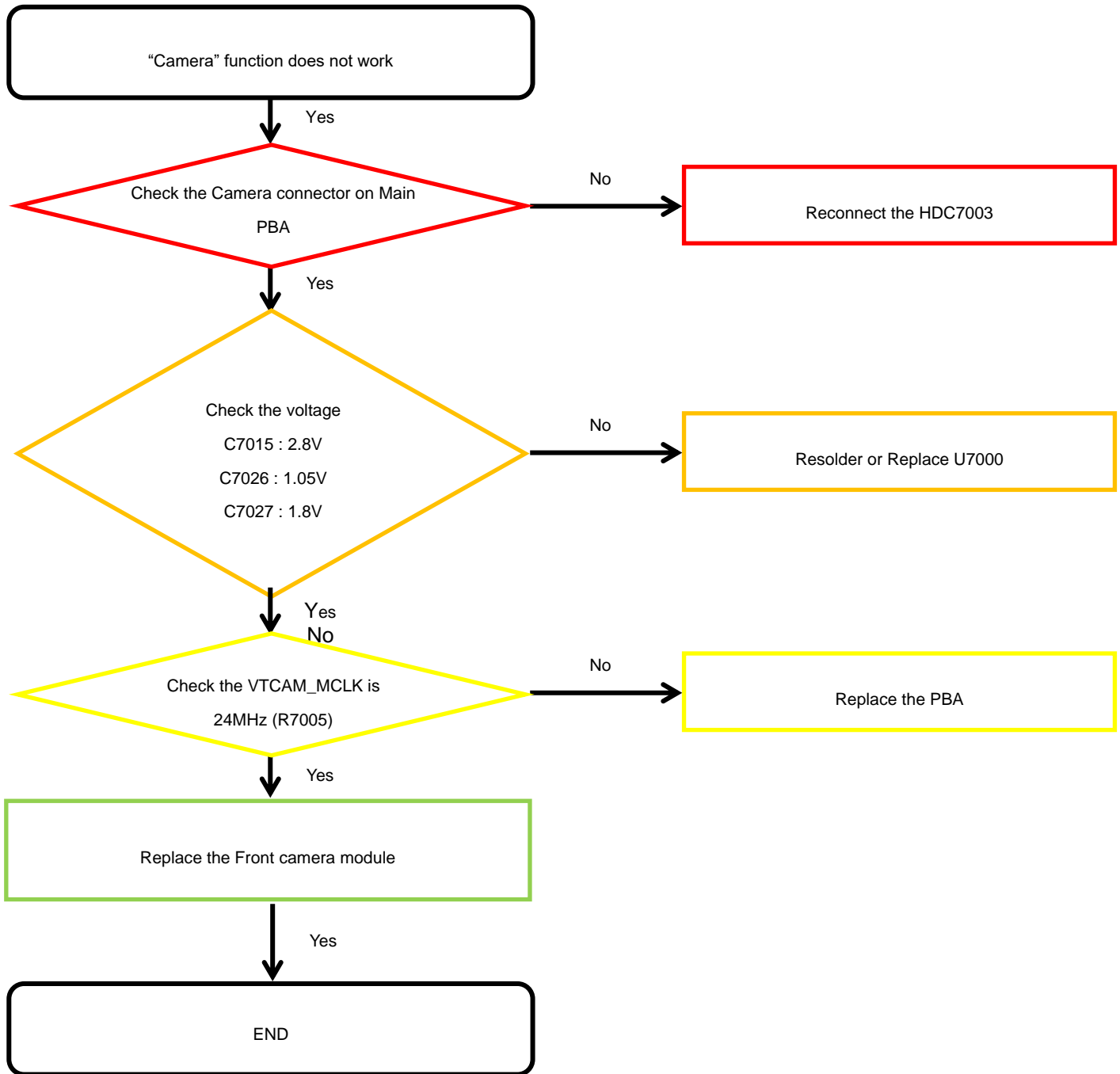
## 8. Level 3 Repair

### 8-4-17. Triple Camera



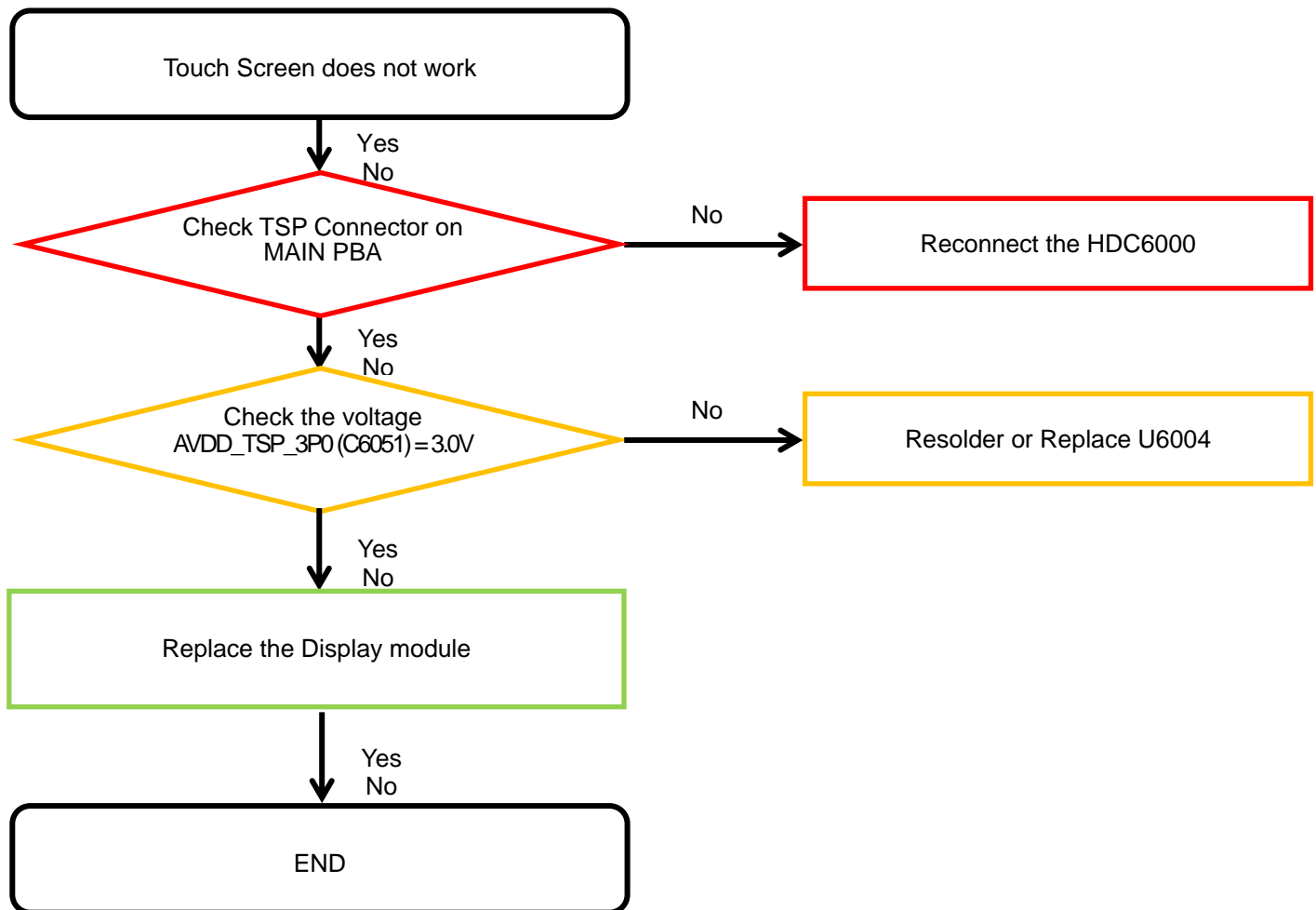
## 8. Level 3 Repair

### 8-4-18. VT CAMERA



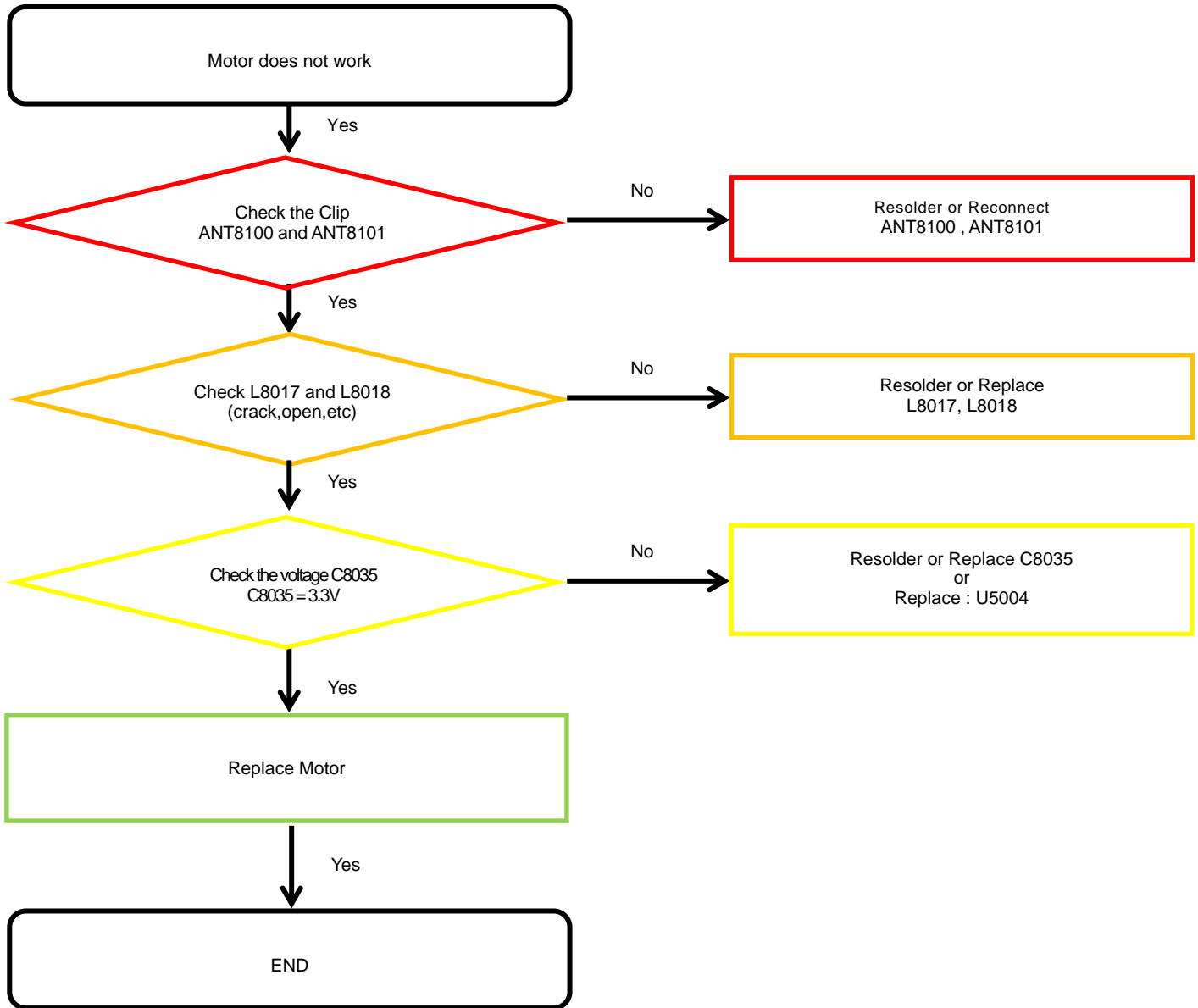
## 8. Level 3 Repair

### 8-4-19. TSP



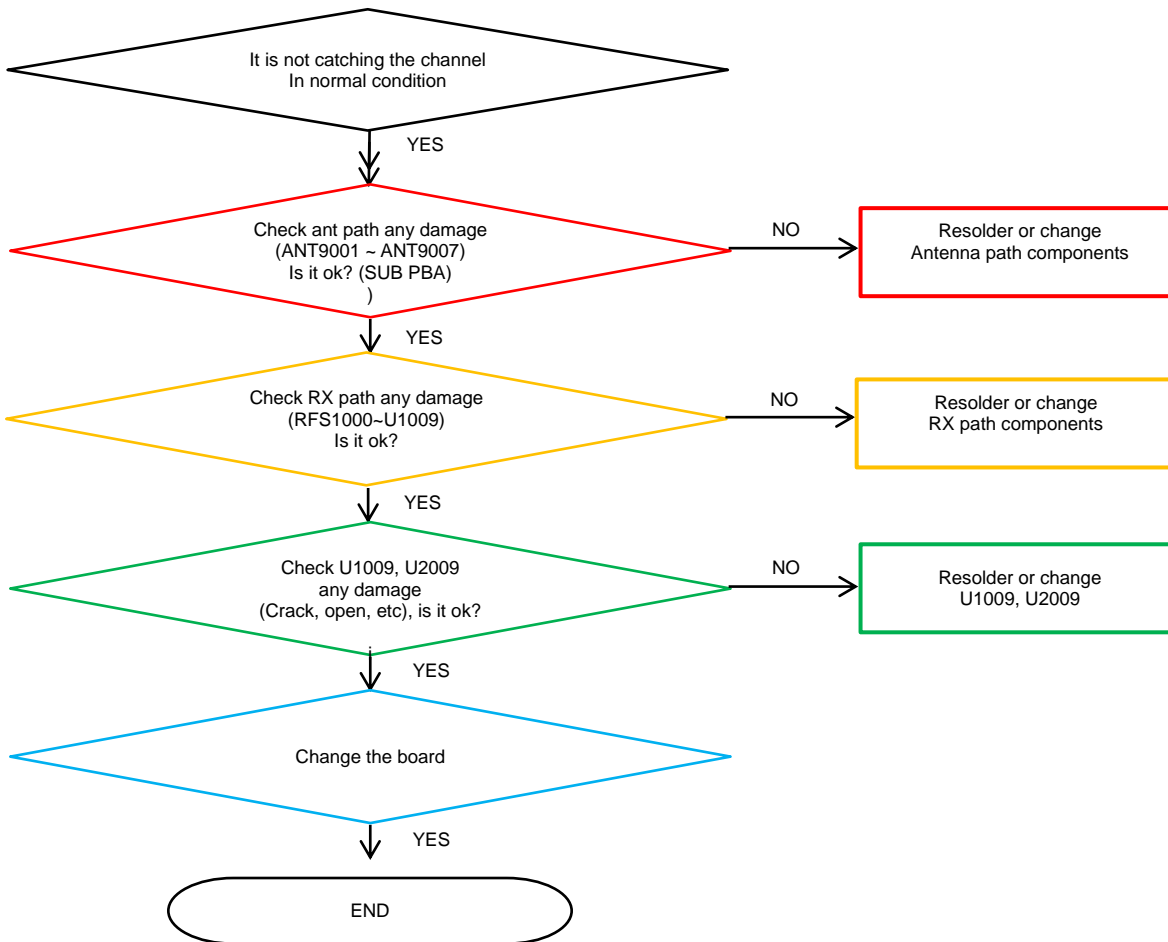
## 8. Level 3 Repair

### 8-4-20. Motor



## 8. Level 3 Repair

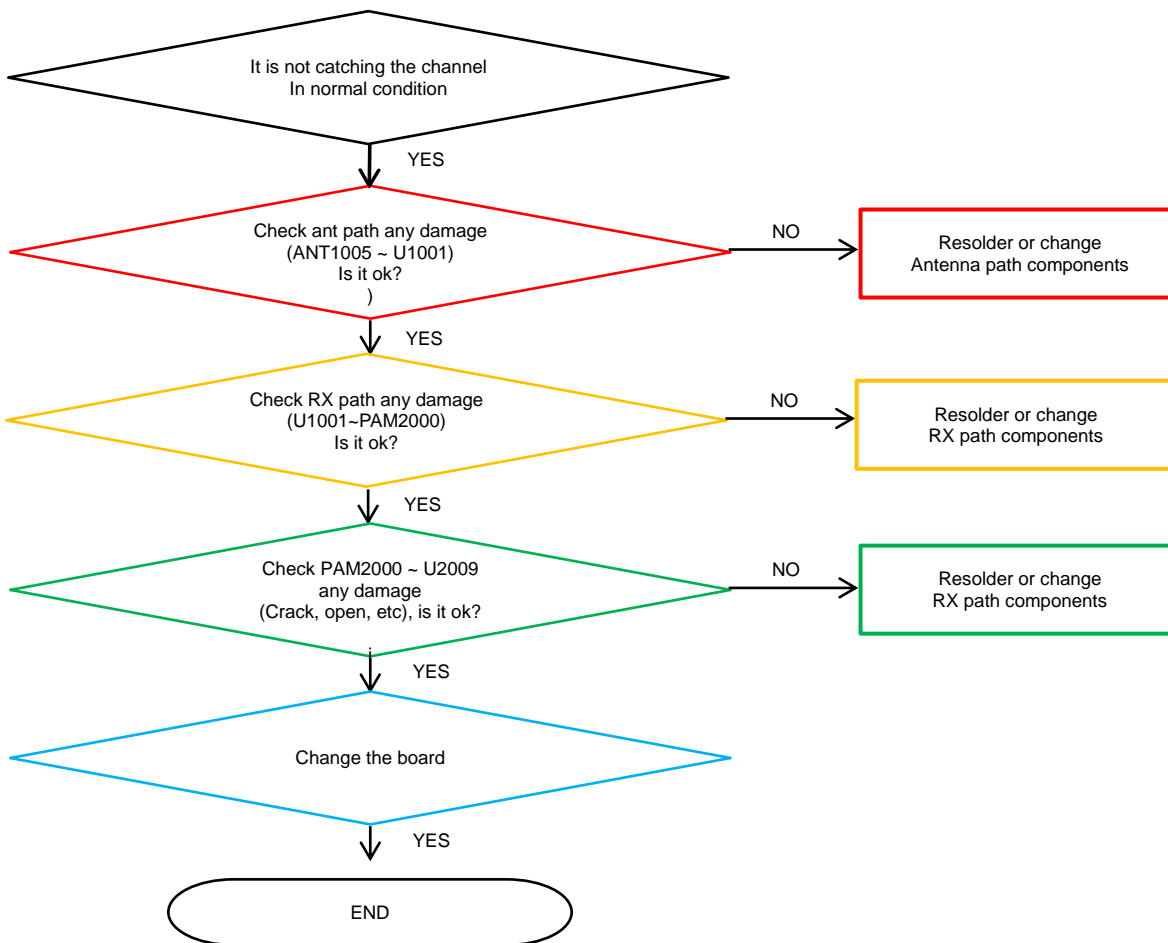
### 8-4-21. GSM 850/900, WCDMA B5/8, LTE B5/8/12/13/17/20/28 PRx





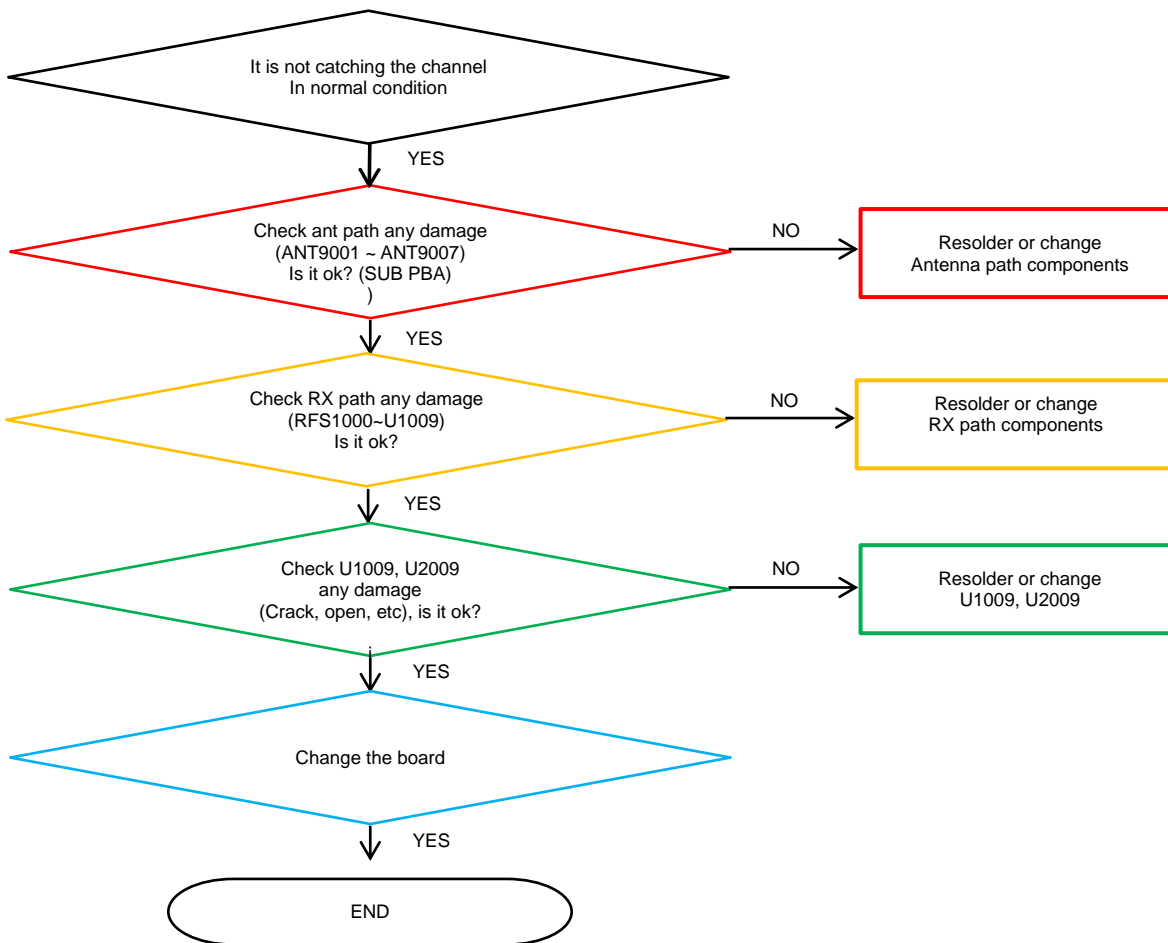
## 8. Level 3 Repair

### 8-4-22. LTE B7/38/40/41 PRx



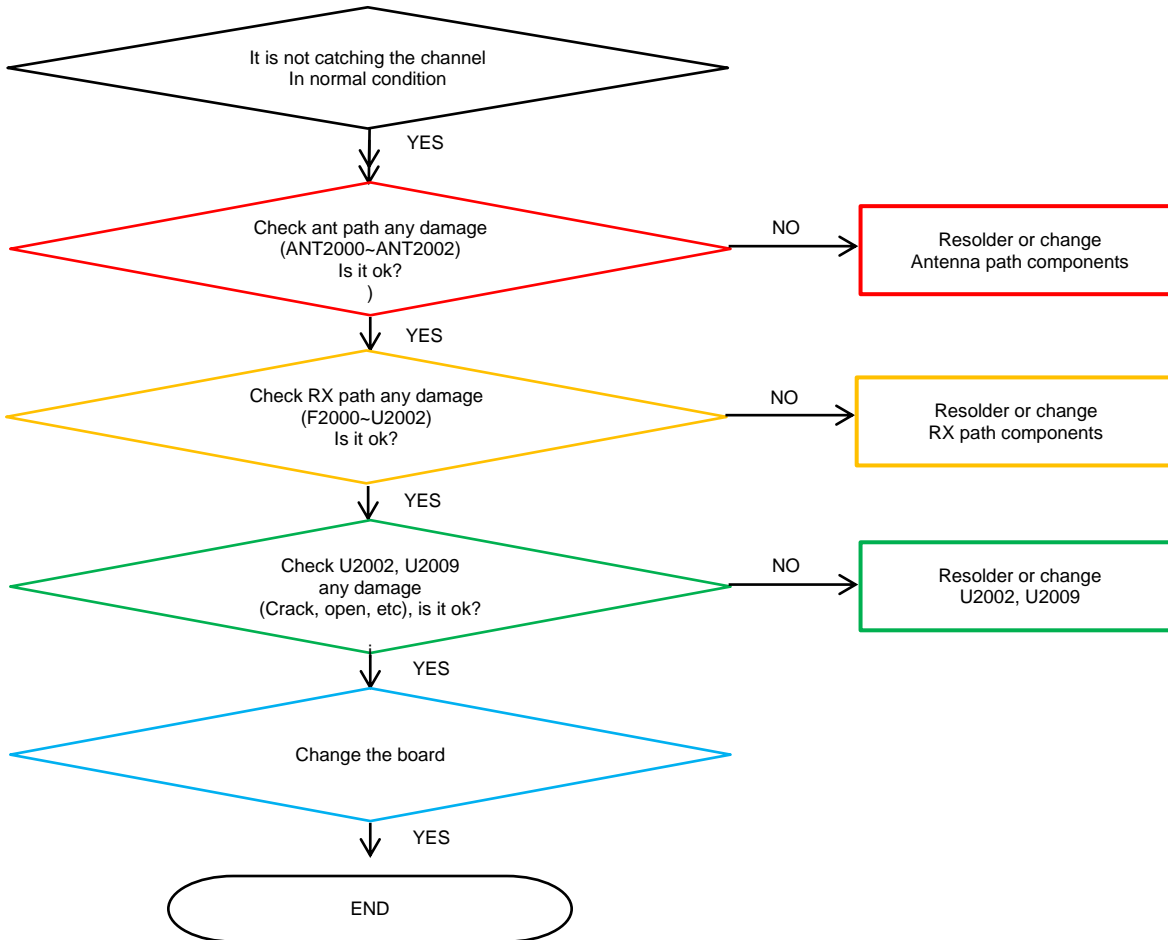
## 8. Level 3 Repair

### 8-4-23. GSM DCS/PCS, WCDMA B1/2/4, LTE B1/2/3/4/66 PRx



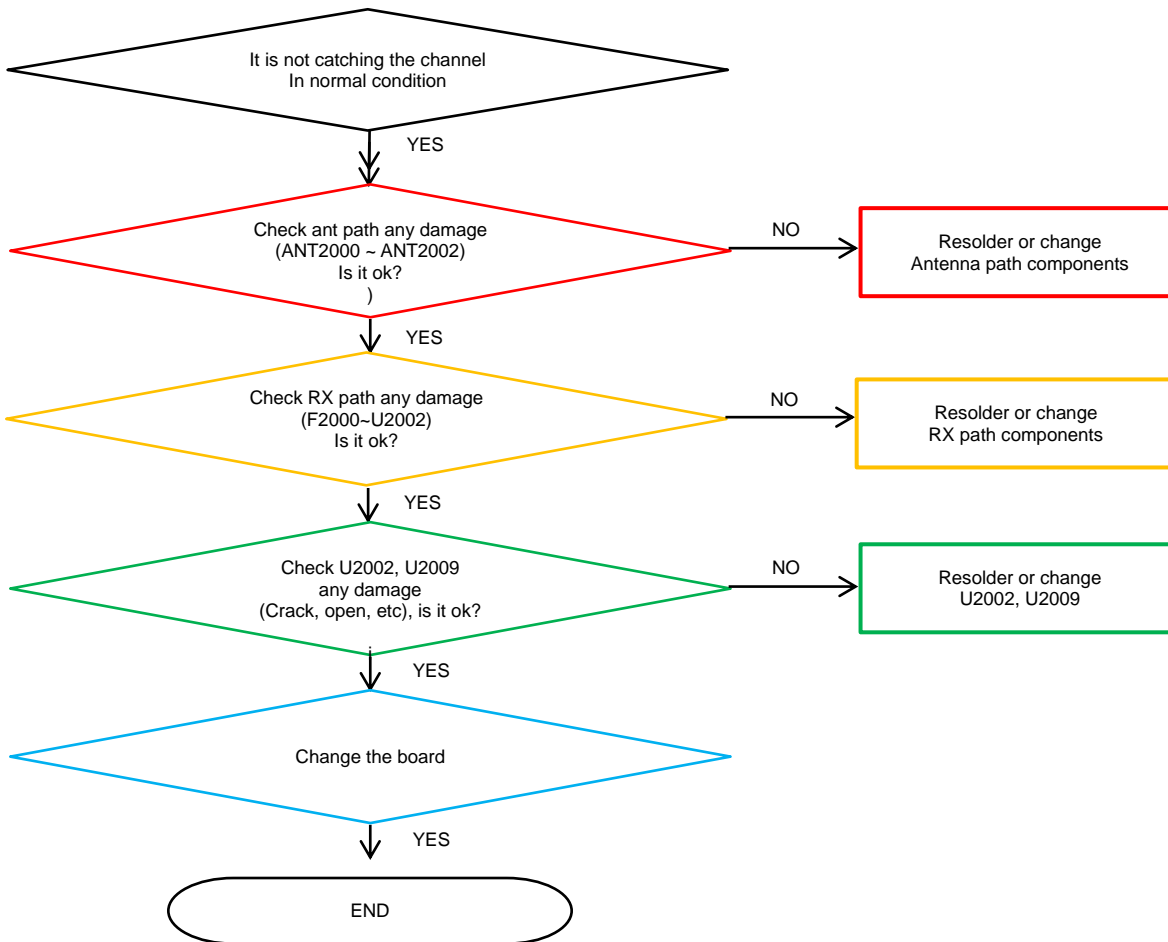
## 8. Level 3 Repair

### 8-4-24. GSM 850/900, WCDMA B5/8, LTE B5/8/12/13/17/20/28 DRx



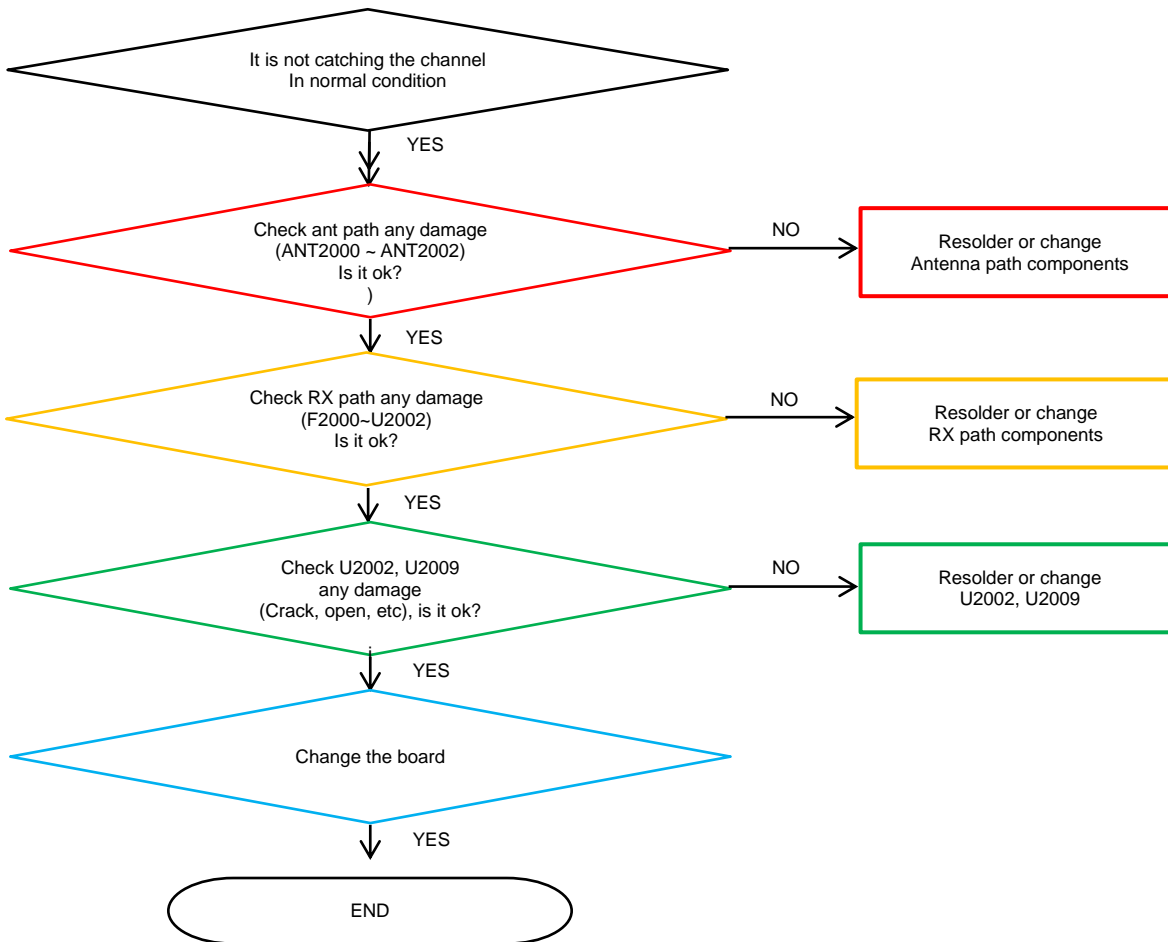
## 8. Level 3 Repair

### 8-4-25. LTE B7/38/40/41 DRx



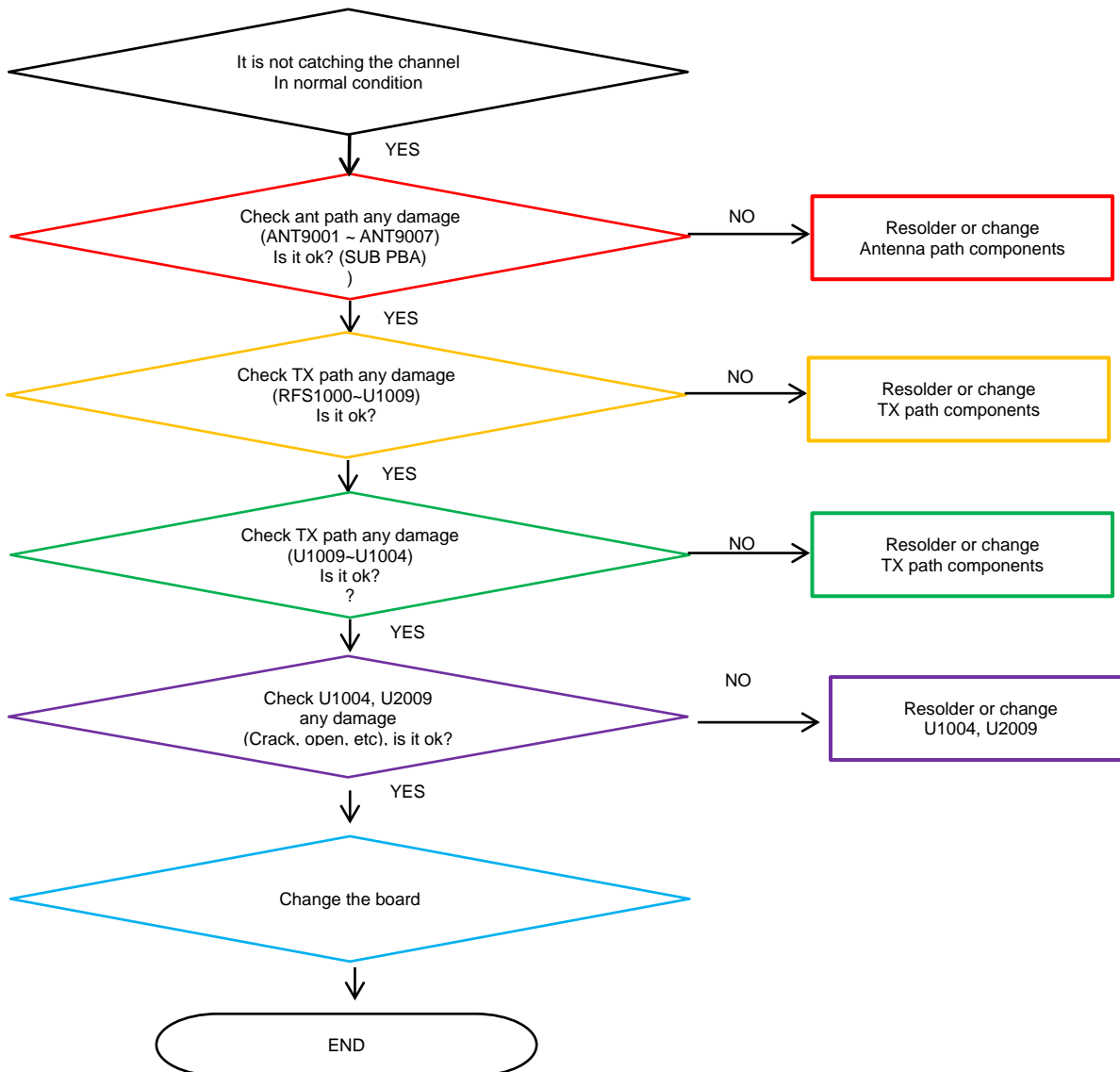
## 8. Level 3 Repair

### 8-4-26. GSM DCS/PCS, WCDMA B1/2/4, LTE B1/2/3/4/66 DRx



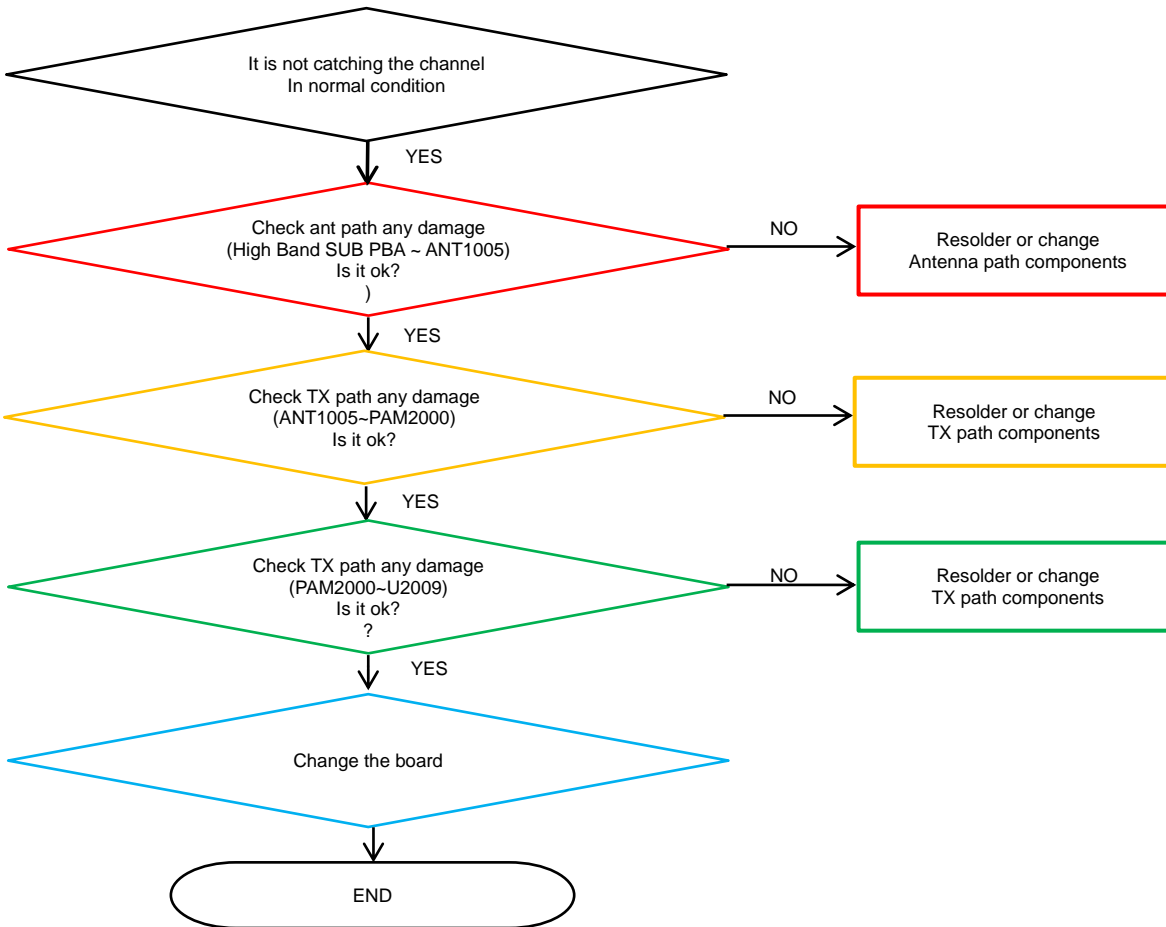
## 8. Level 3 Repair

### 8-4-27. GSM 850/900, WCDMA B5/8, LTE B5/8/12/13/17/20/28 TX



## 8. Level 3 Repair

### 8-4-28. LTE B7/38/40/41 Tx



## 8. Level 3 Repair

### 8-4-29. GSM DCS/PCS, WCDMA B1/2/4, LTE B1/2/3/4/66 Tx

