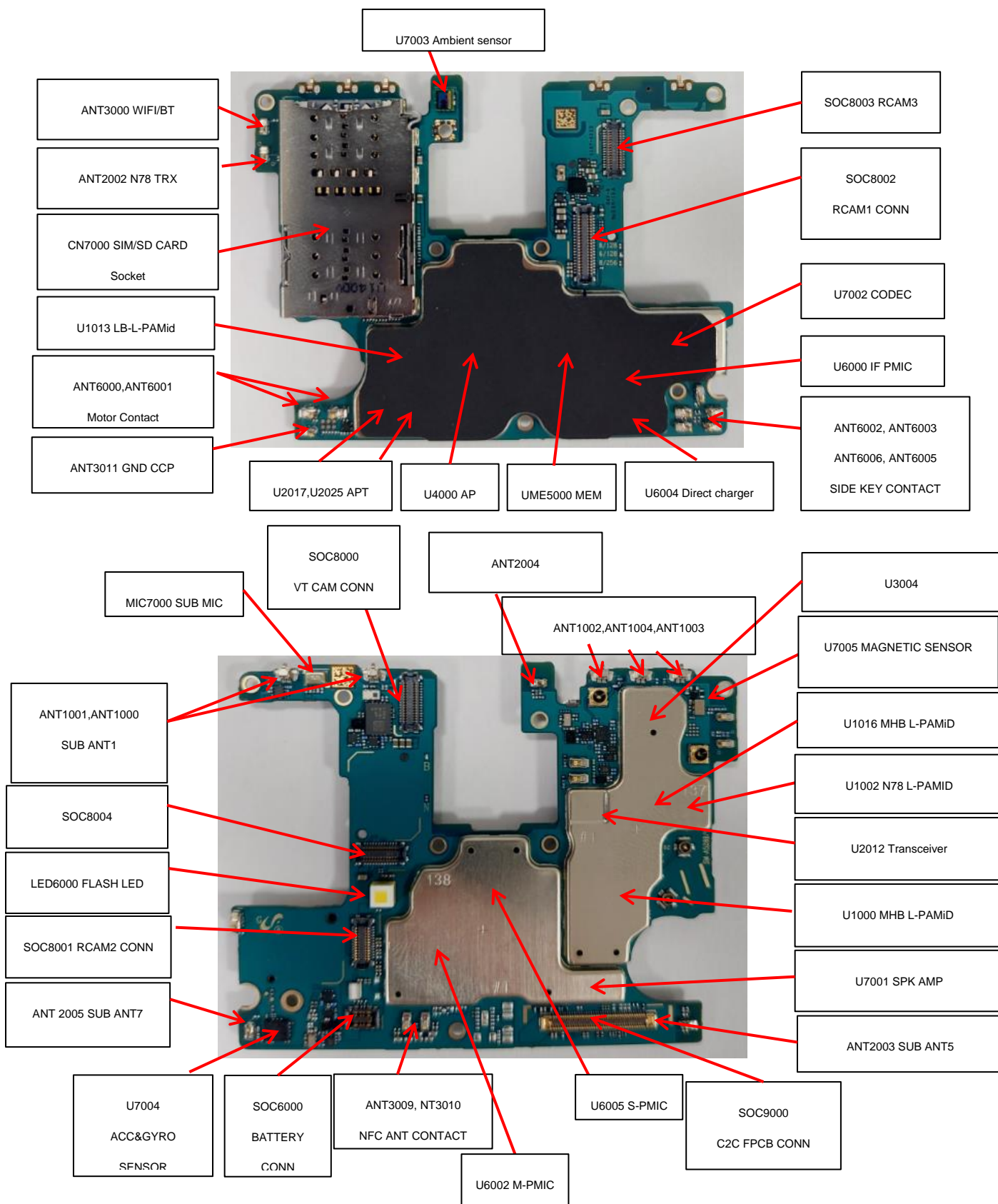
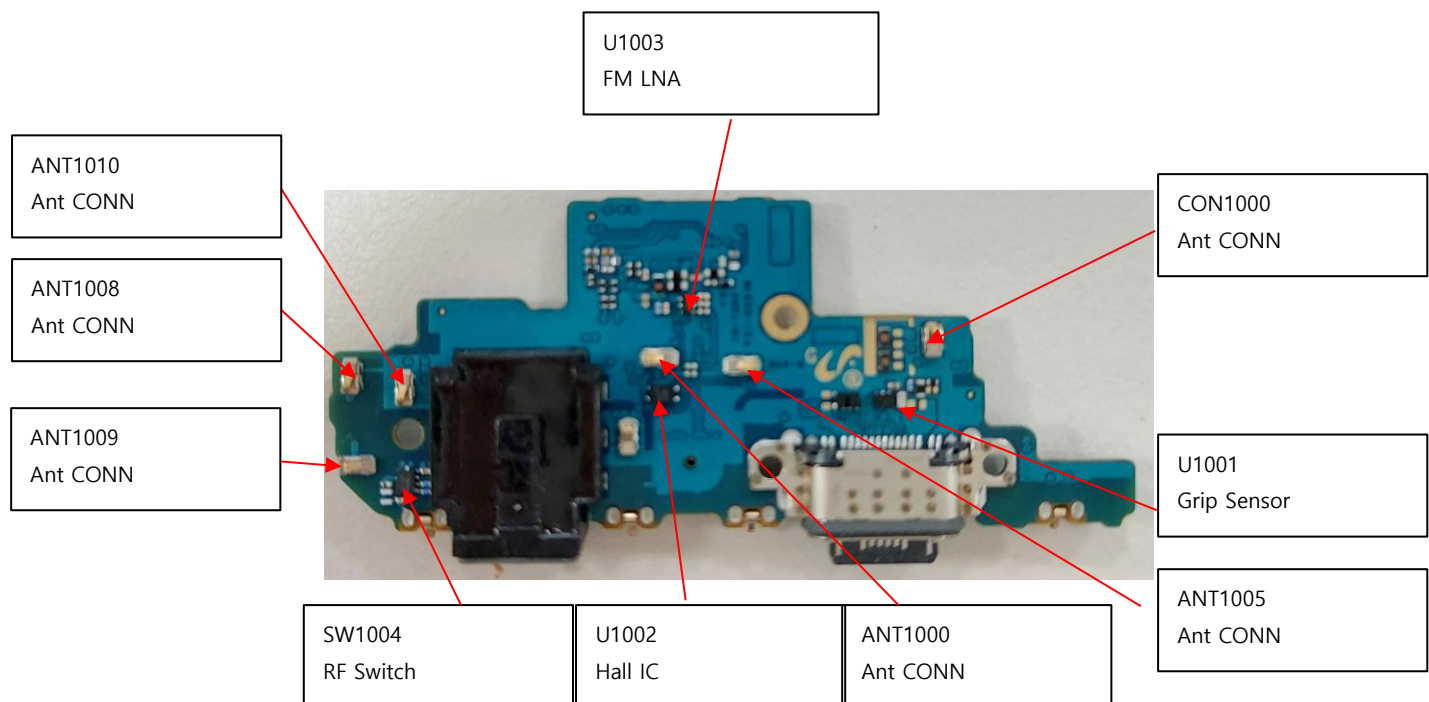
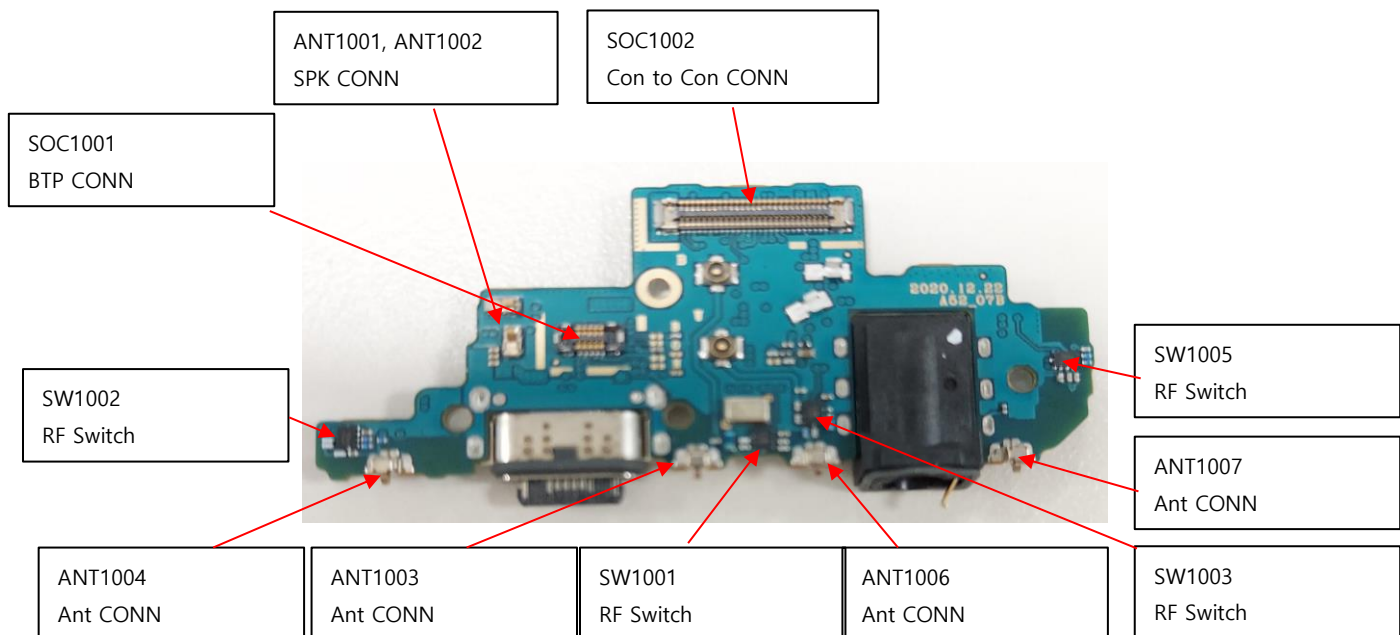


## 8. Level 3 Repair

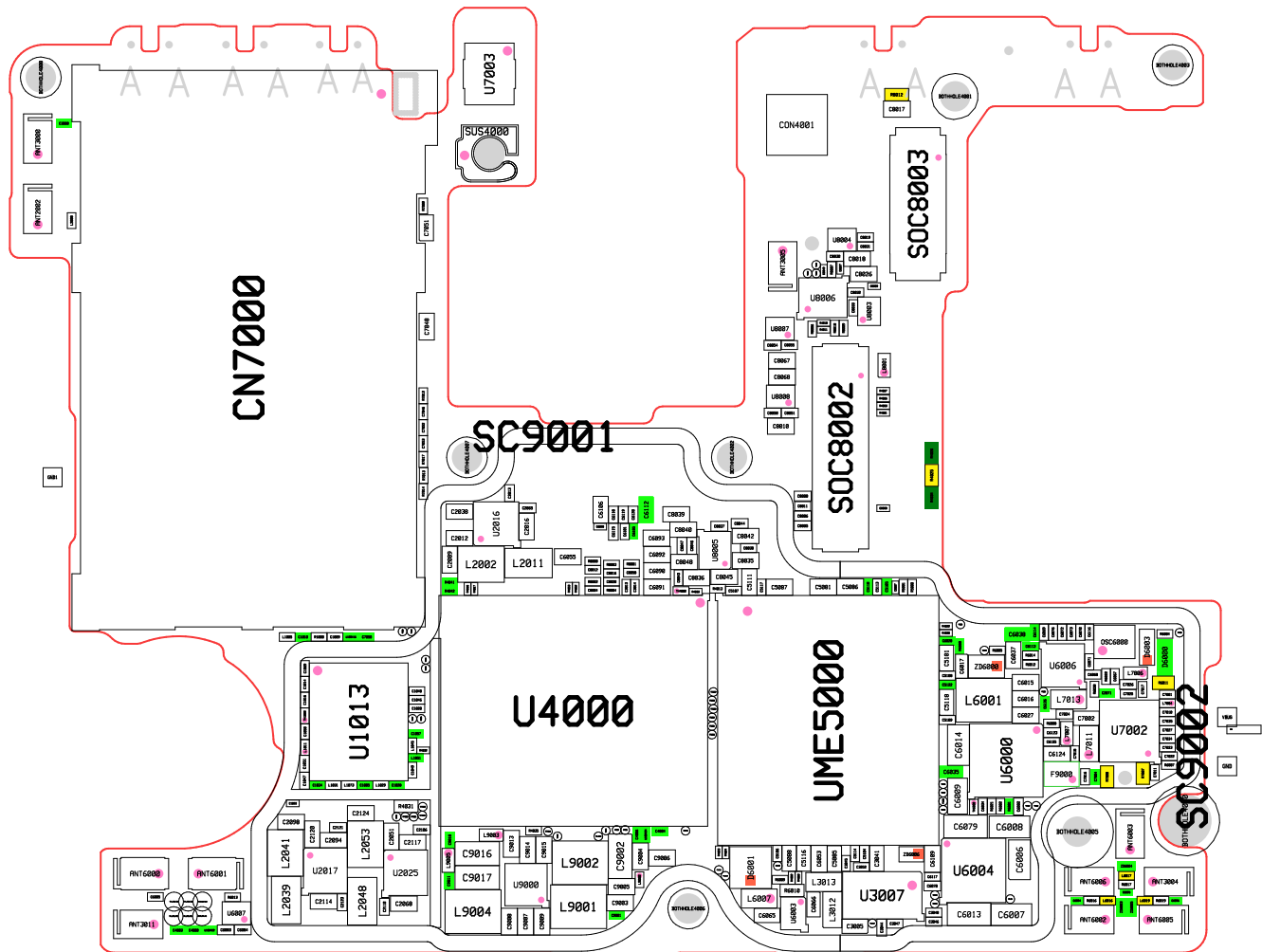
### 8-1. Components Layout

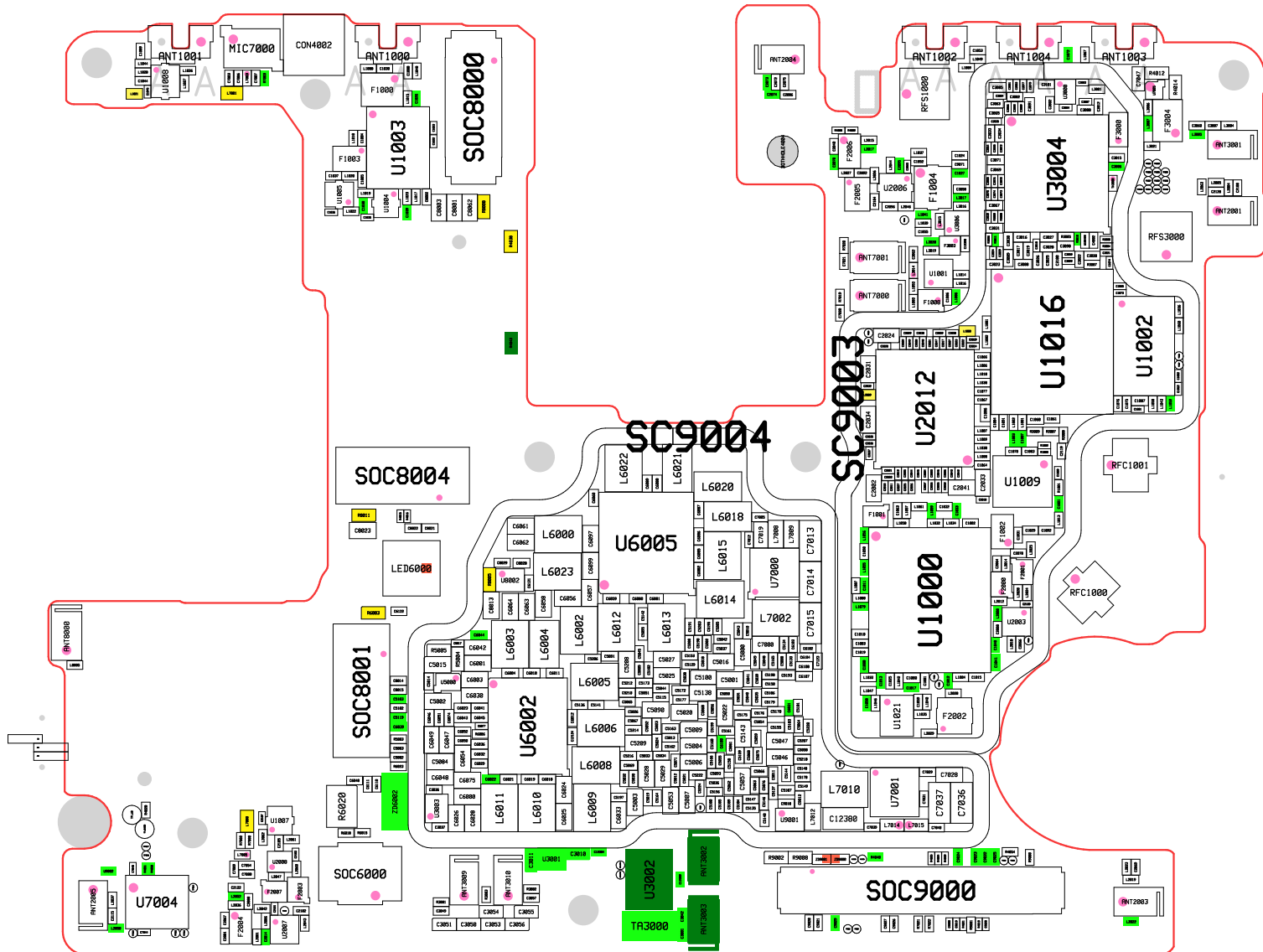


## 8. Level 3 Repair





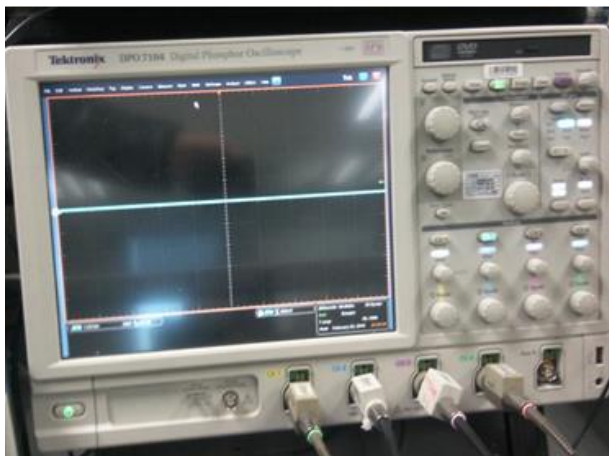






## 8. Level 3 Repair

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



**Oscilloscope**



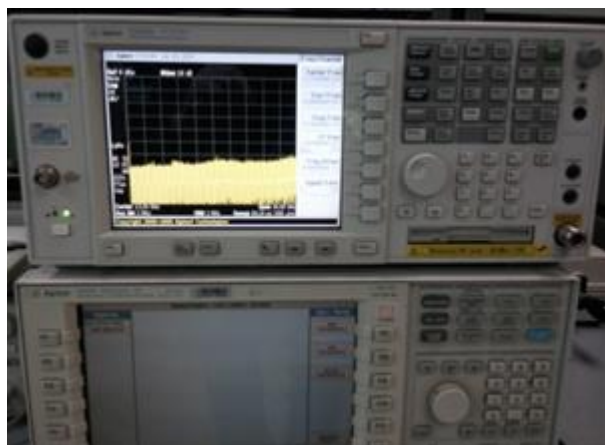
**Digital Multimeter**



**Power Supply**



**+ driver, ESD Safe Tweezer**



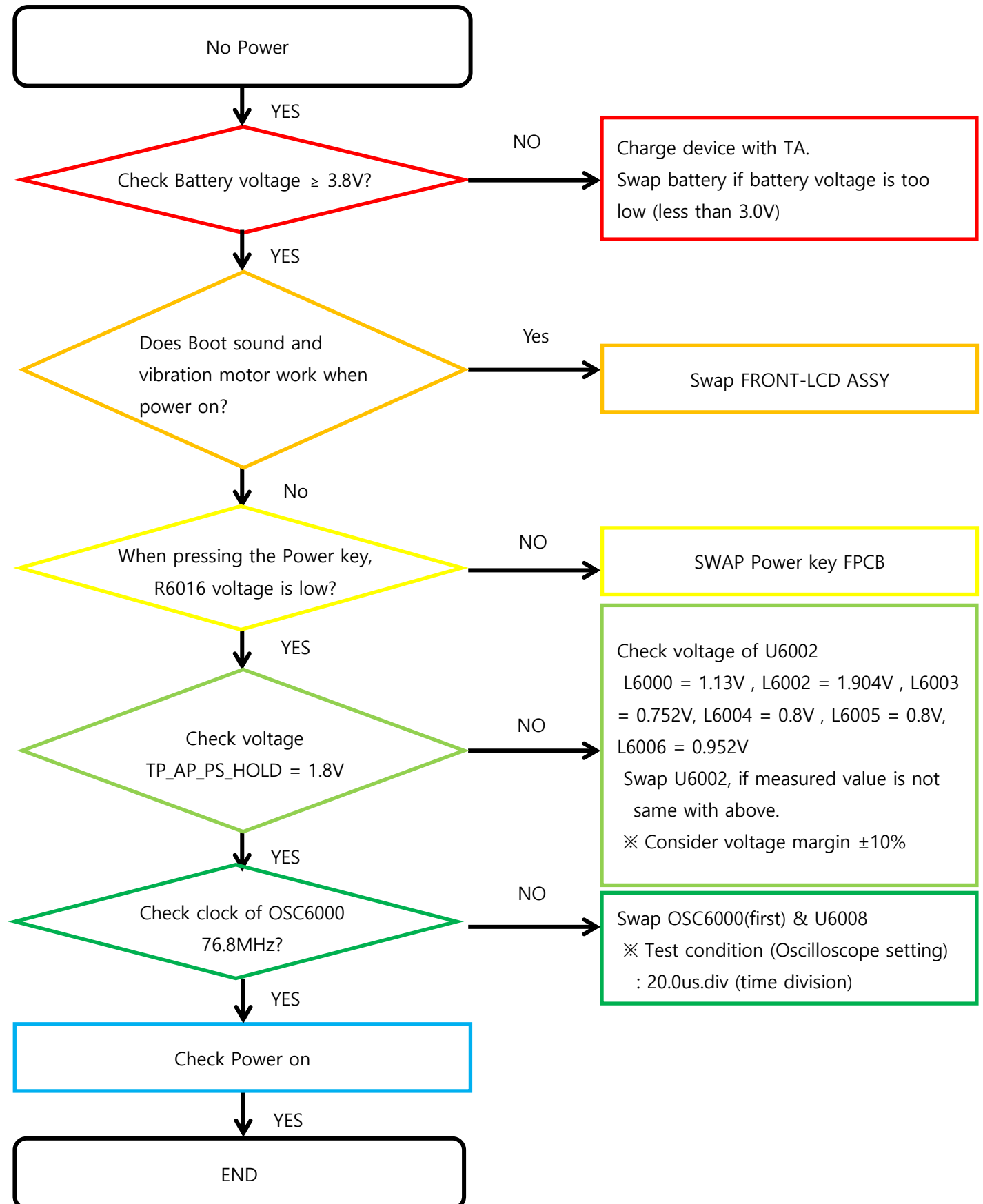
**8960 & Spectrum Analyzer**



**Soldering iron**

## 8. Level 3 Repair

### 8-4-1. Power On

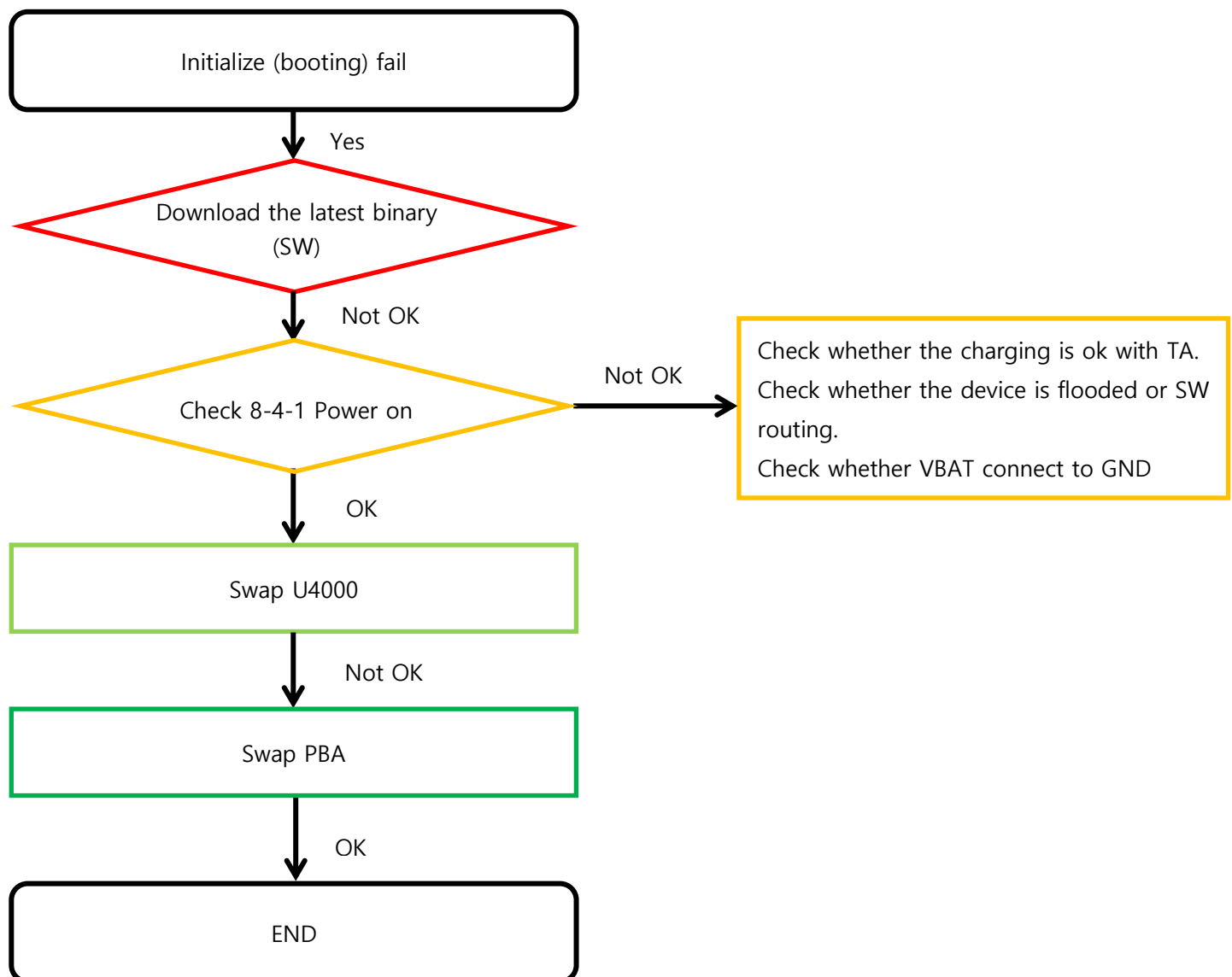


---

## 8. Level 3 Repair

---

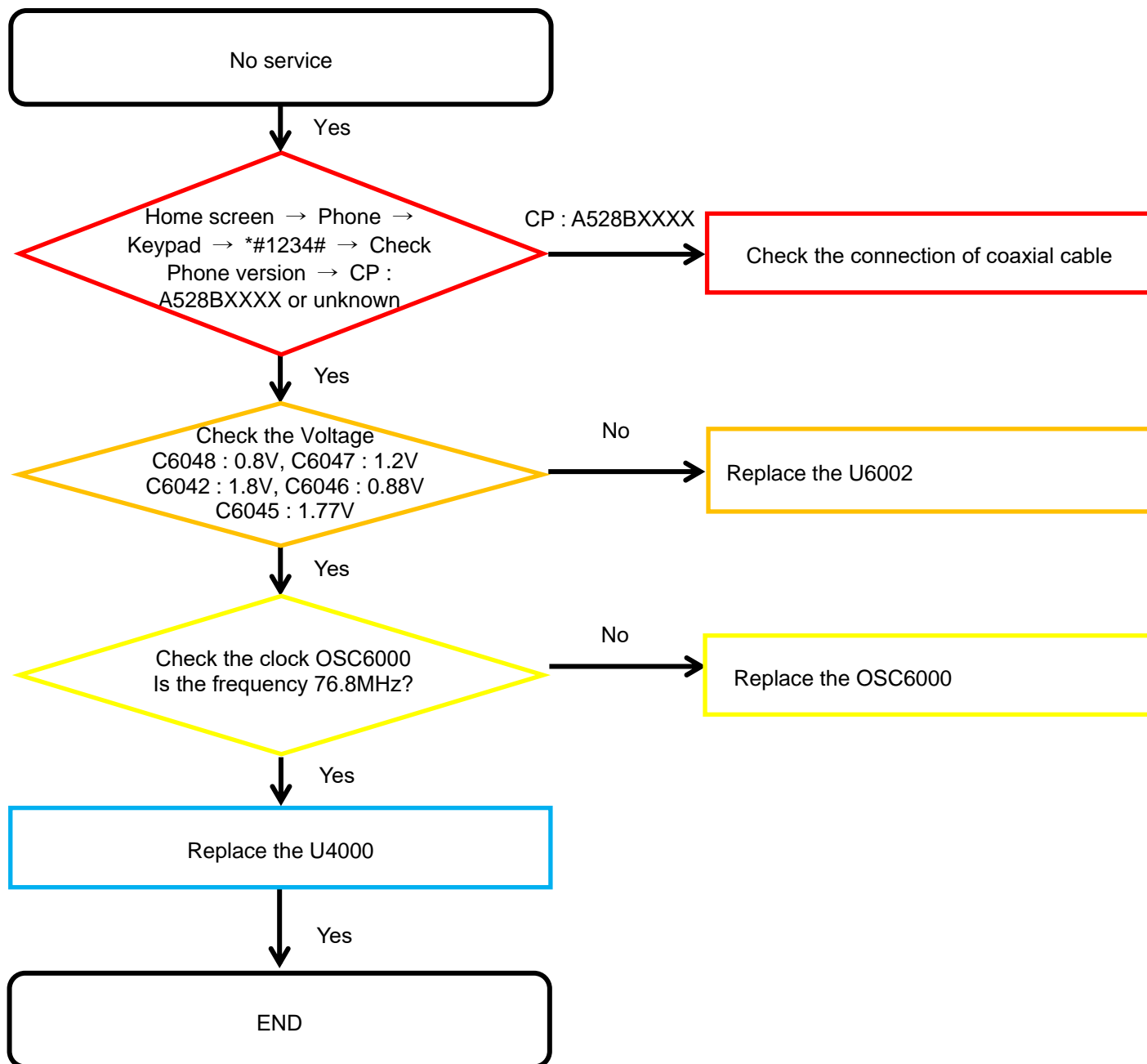
### 8-4-2. Initial





## 8. Level 3 Repair

### 8-4-3. No Service

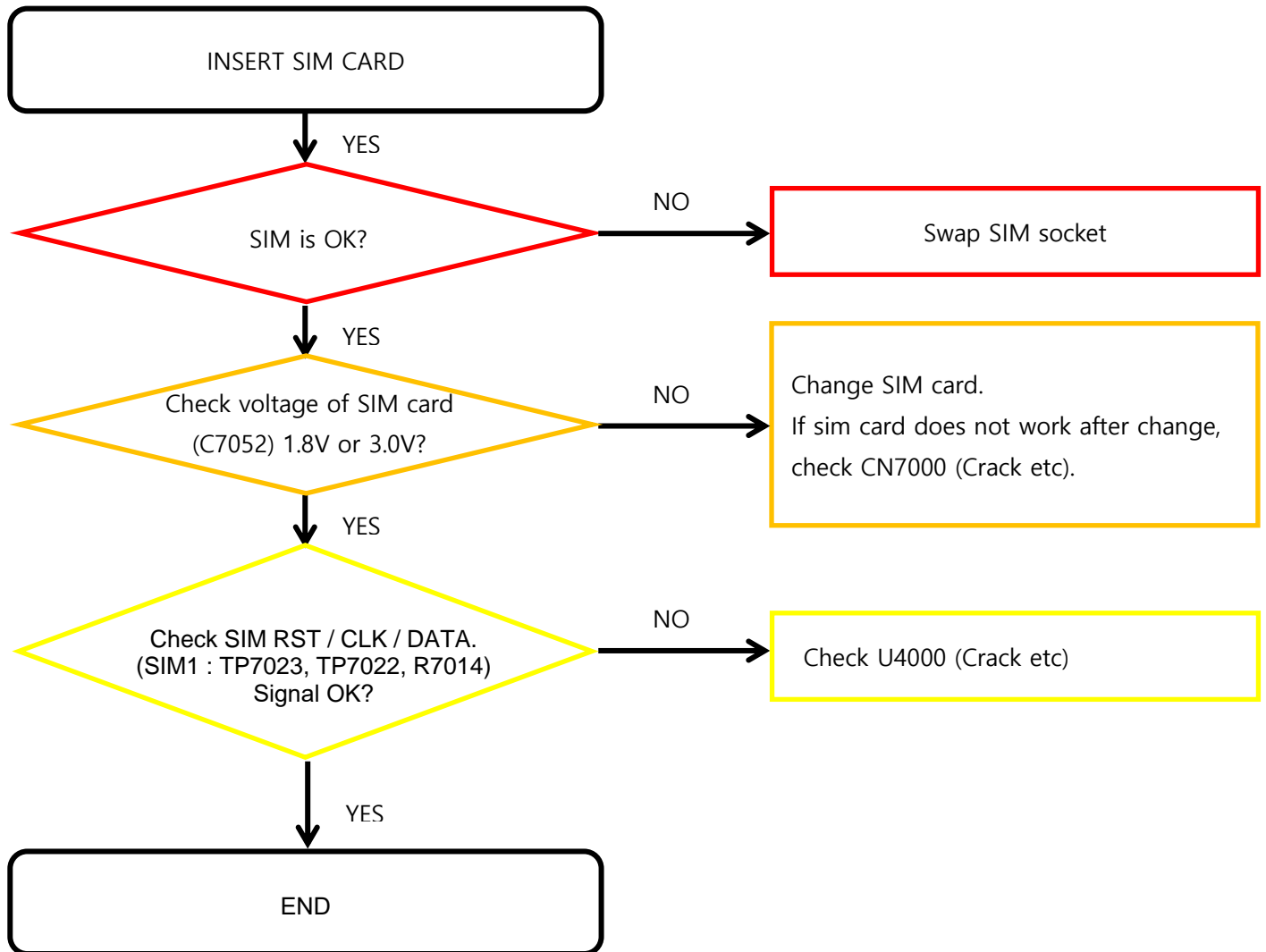


---

## 8. Level 3 Repair

---

### 8-4-4. SIM Part

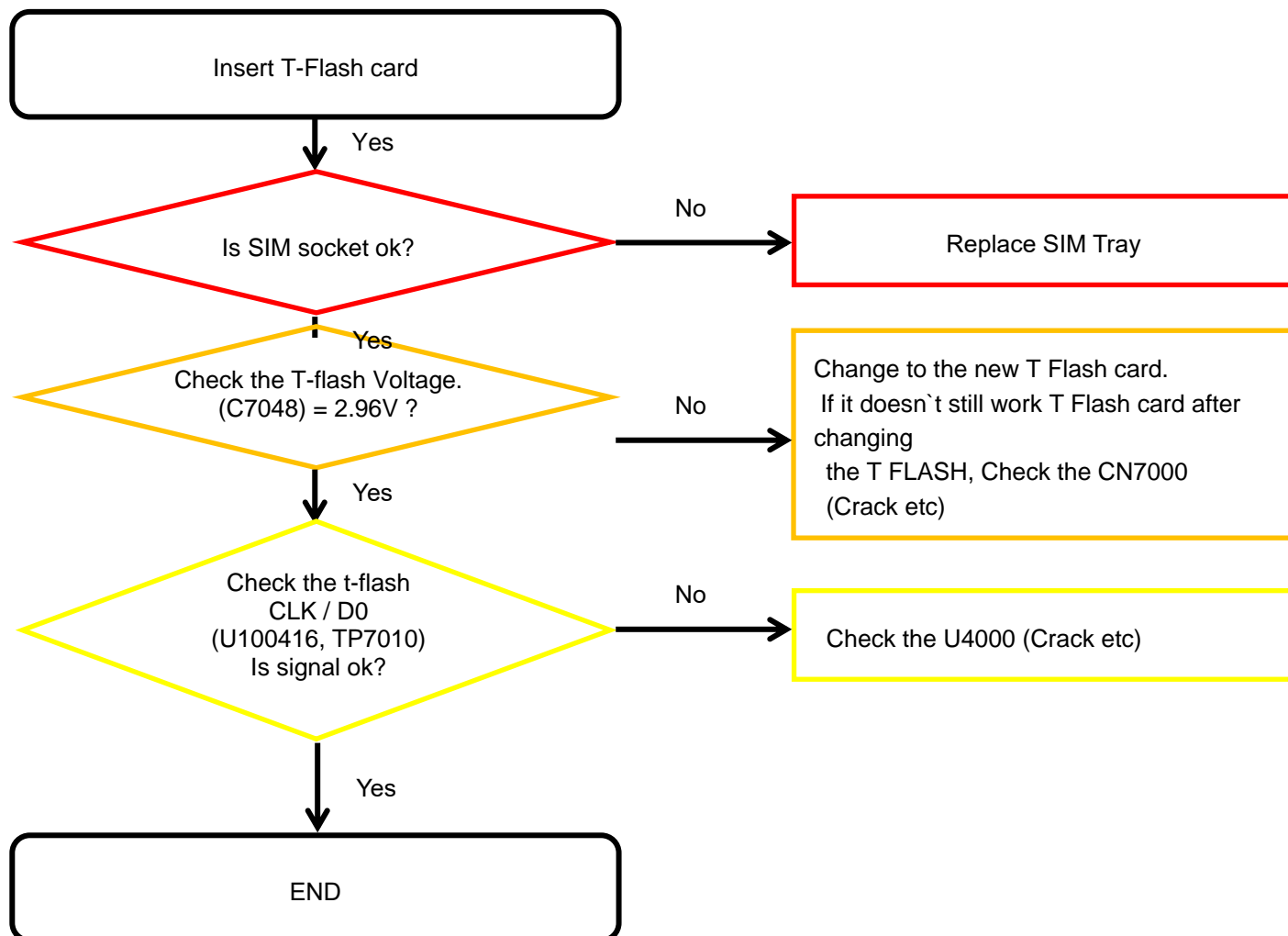


---

## 8. Level 3 Repair

---

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

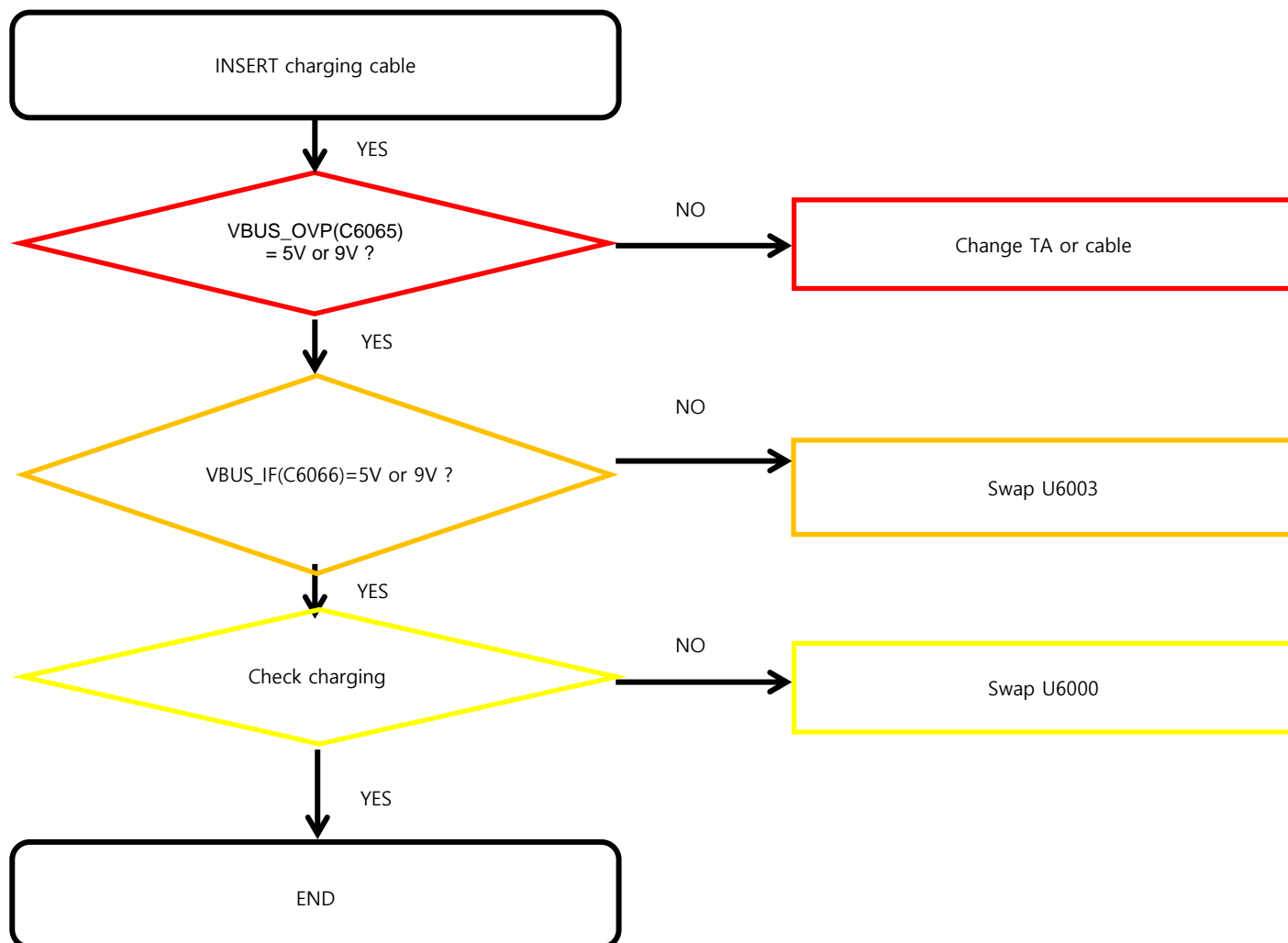


---

## 8. Level 3 Repair

---

### 8-4-6. Cable Charging Part (Normal/Fast)

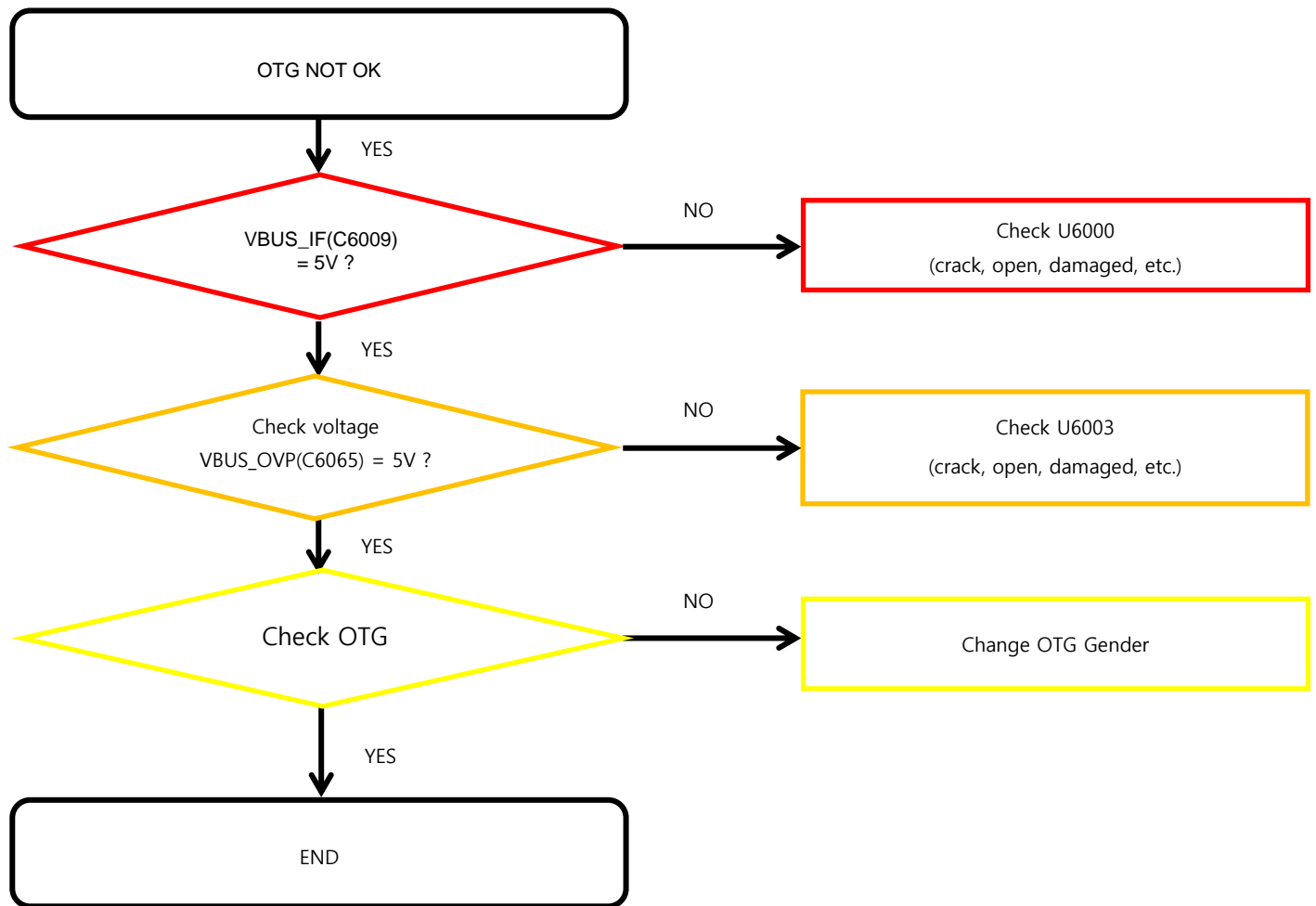


---

## 8. Level 3 Repair

---

### 8-4-7. OTG

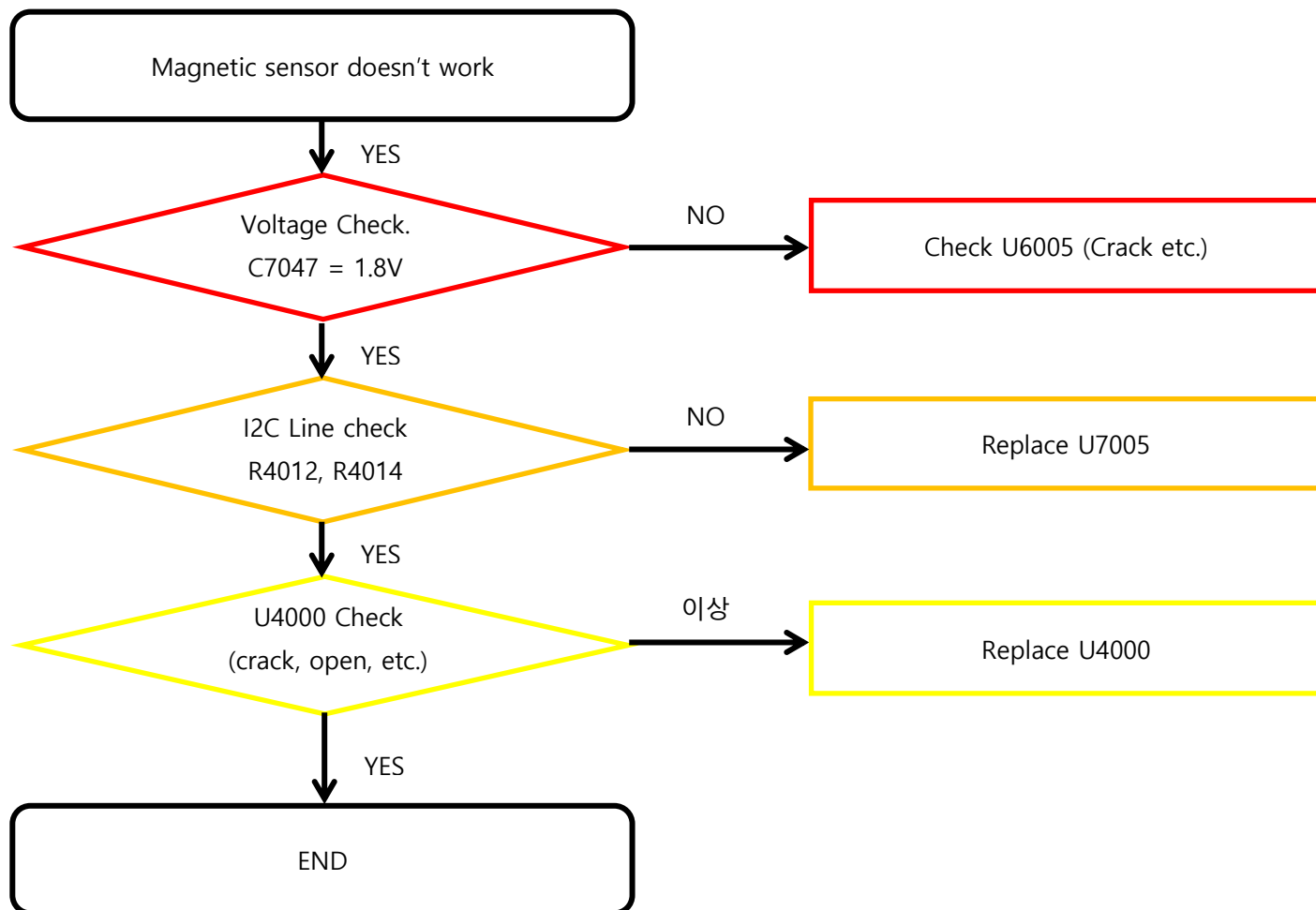


---

## 8. Level 3 Repair

---

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



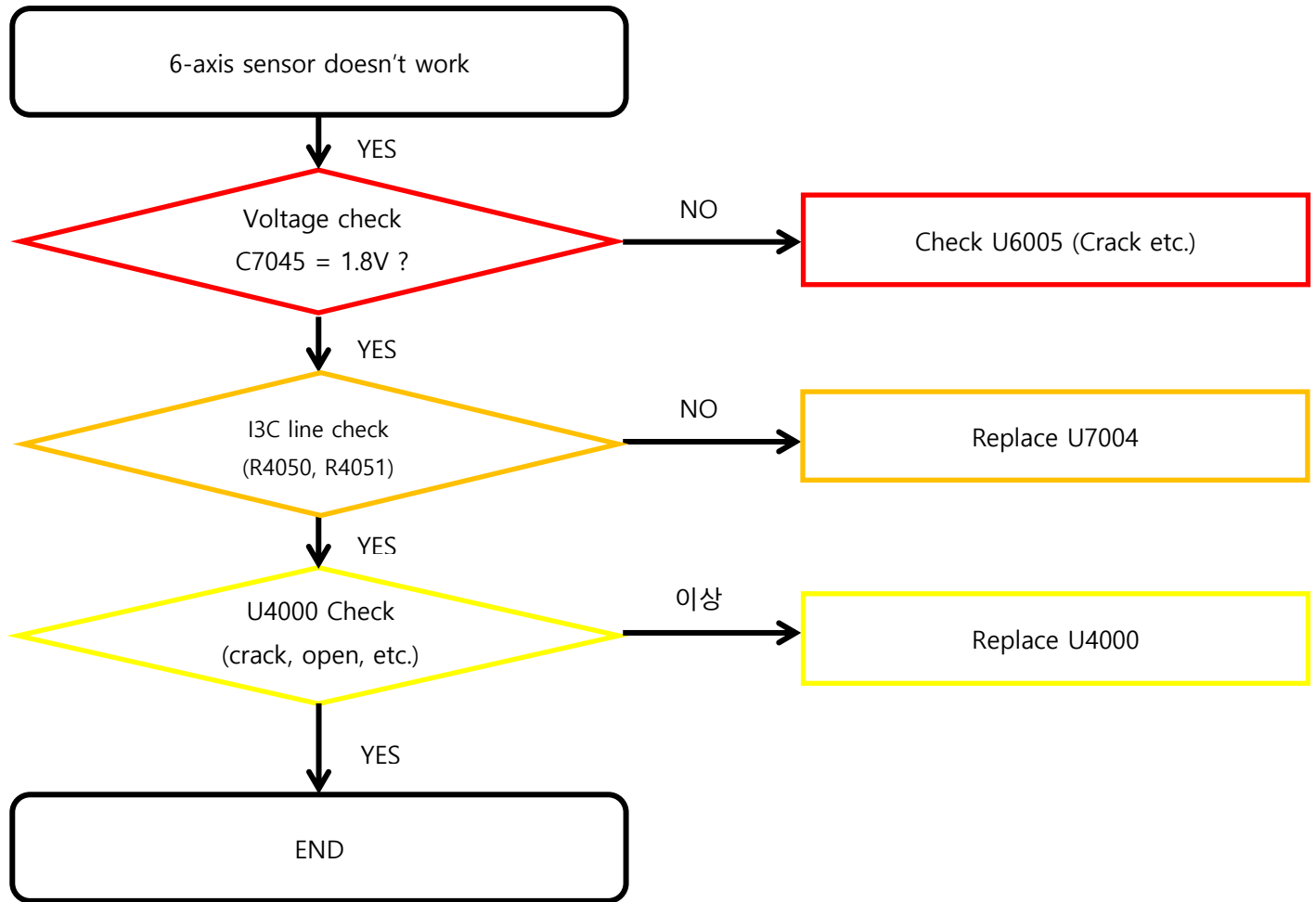


---

## 8. Level 3 Repair

---

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

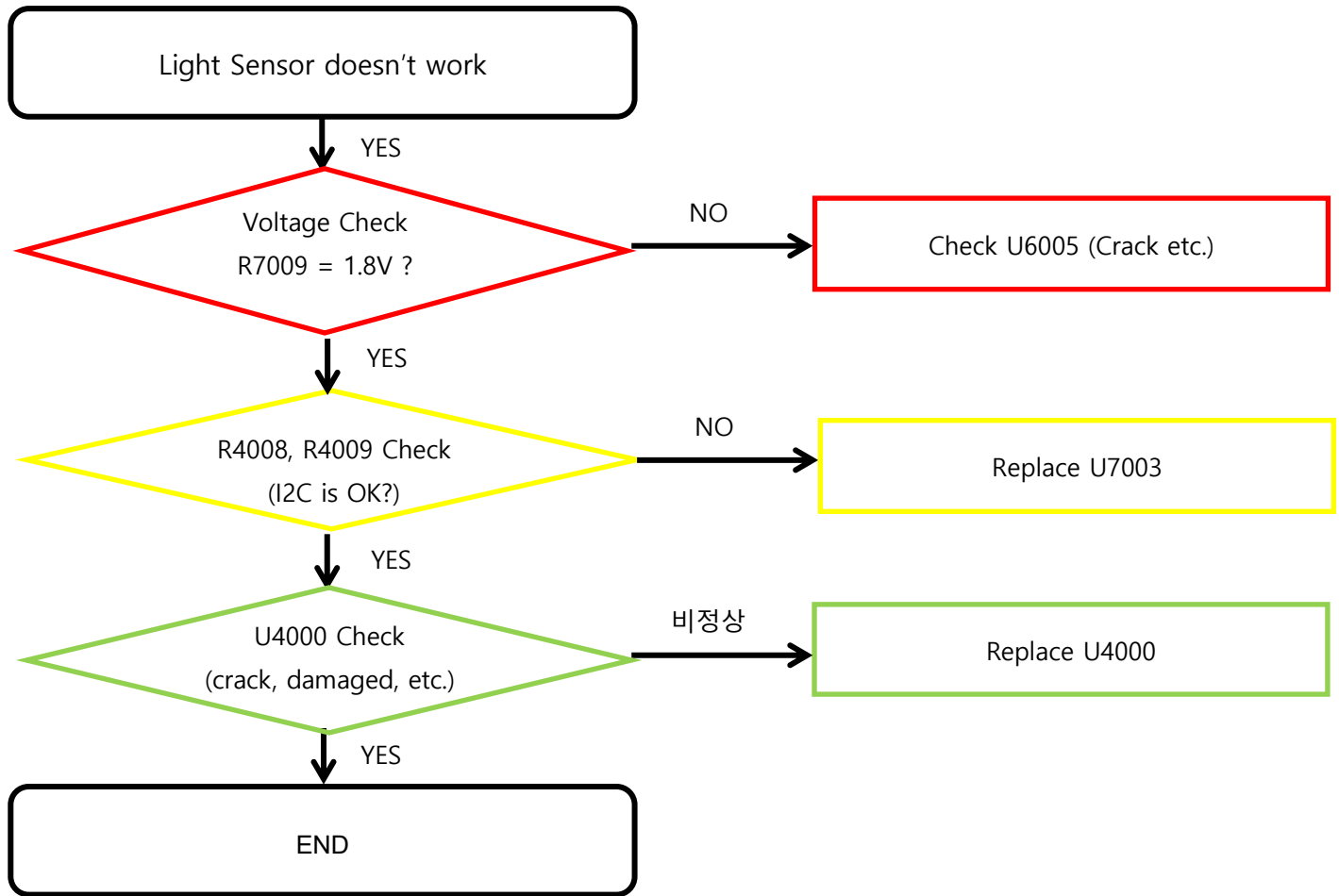


---

## 8. Level 3 Repair

---

### 8-4-8-3. Light sensor

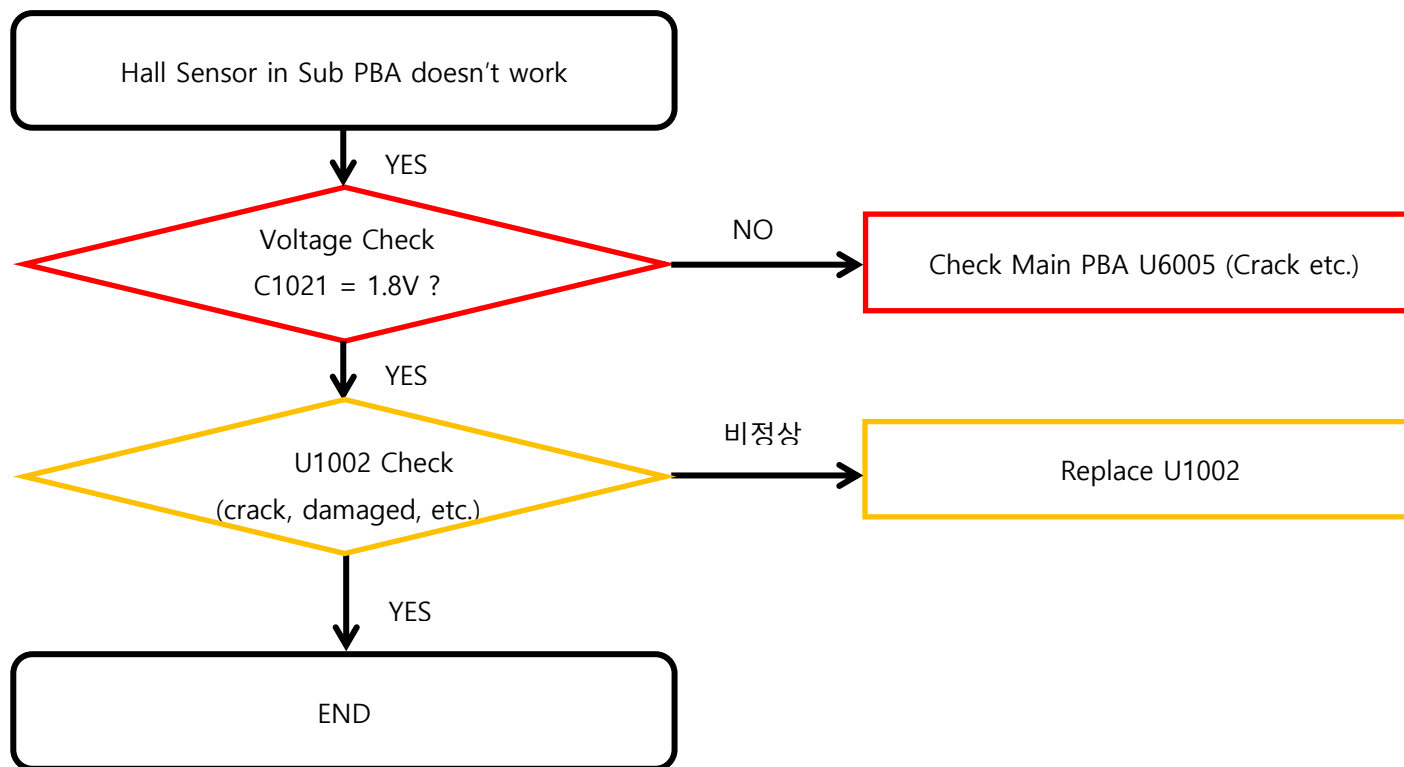


---

## 8. Level 3 Repair

---

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

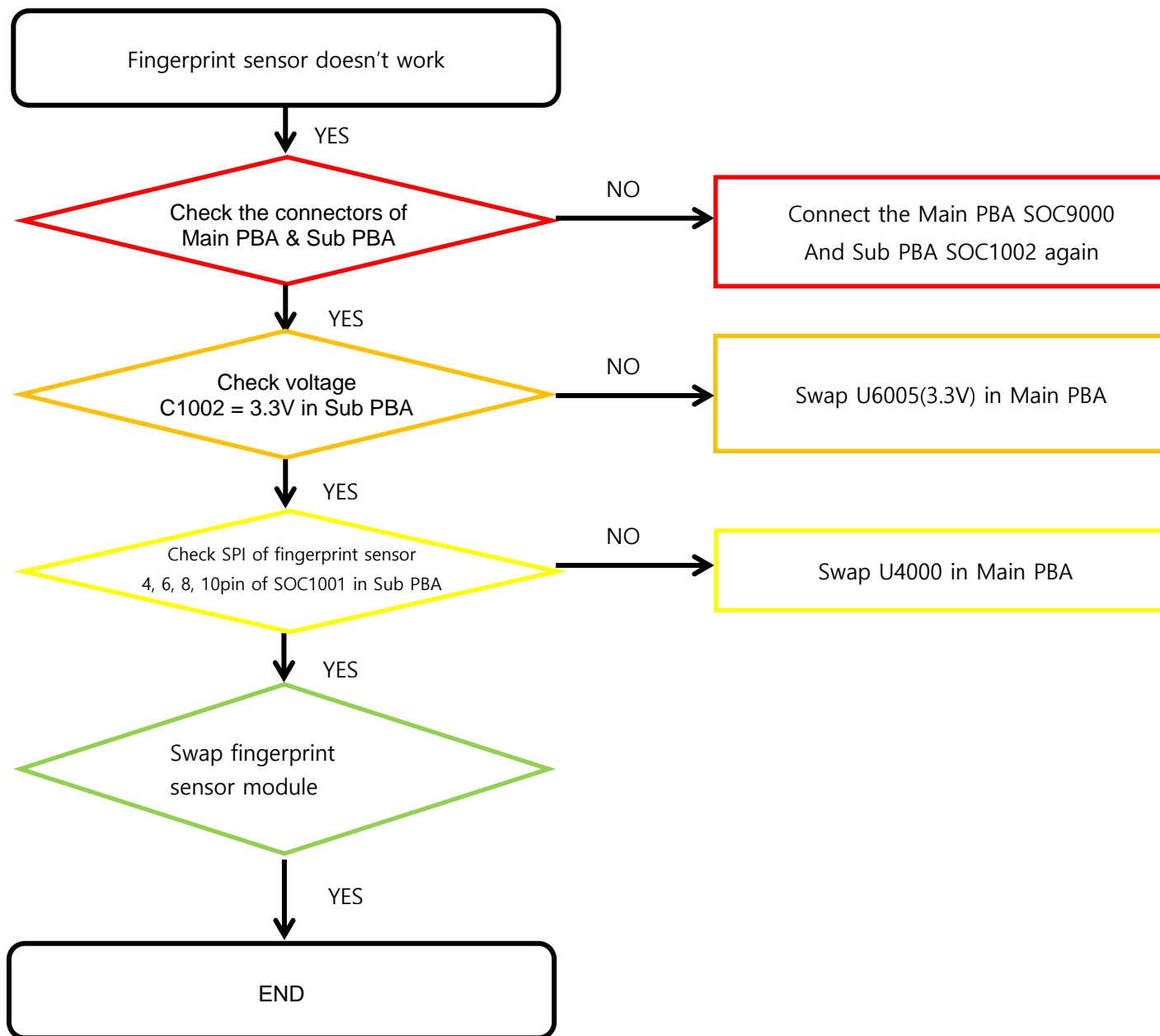


---

## 8. Level 3 Repair

---

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

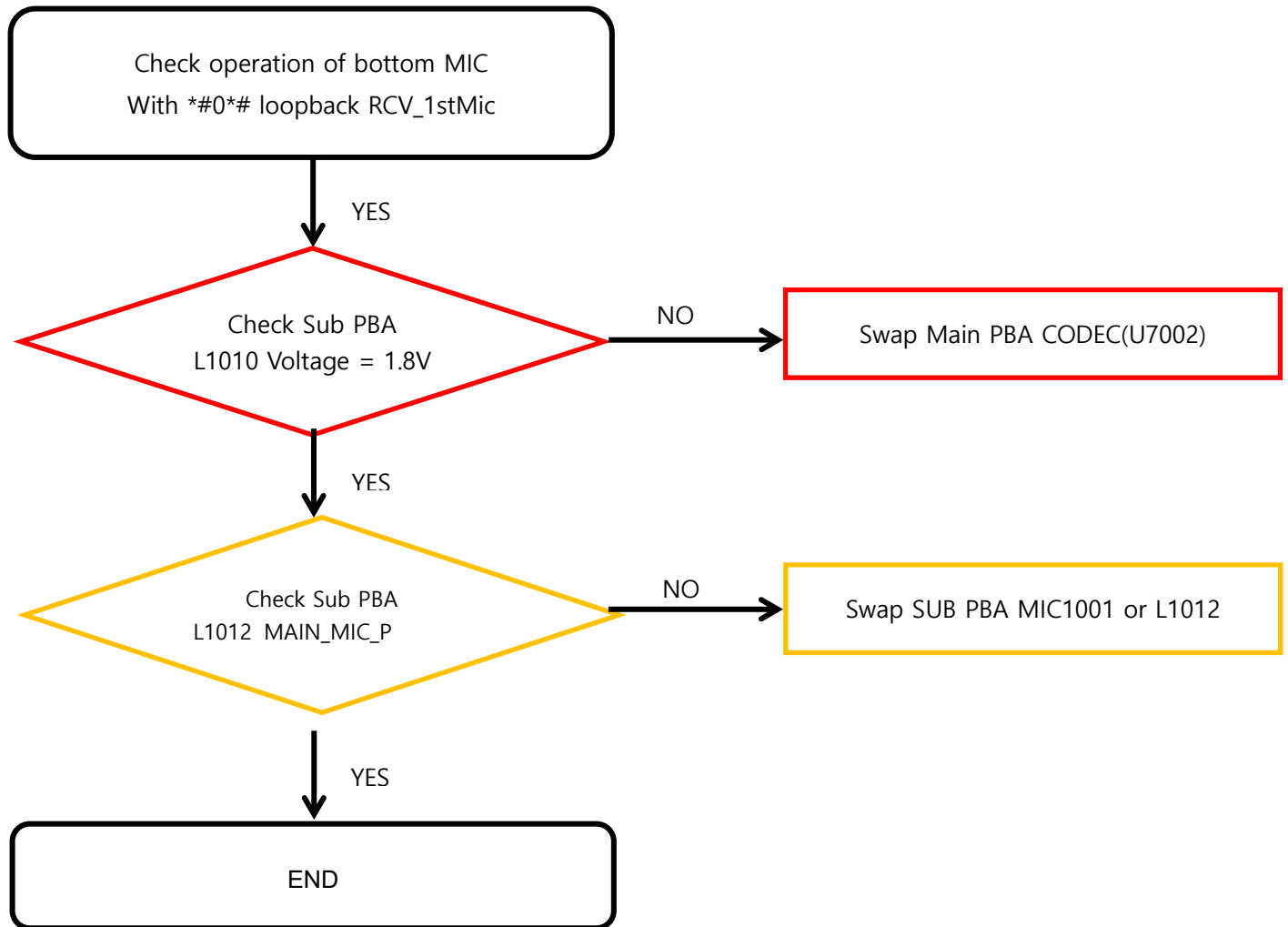


---

## 8. Level 3 Repair

---

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

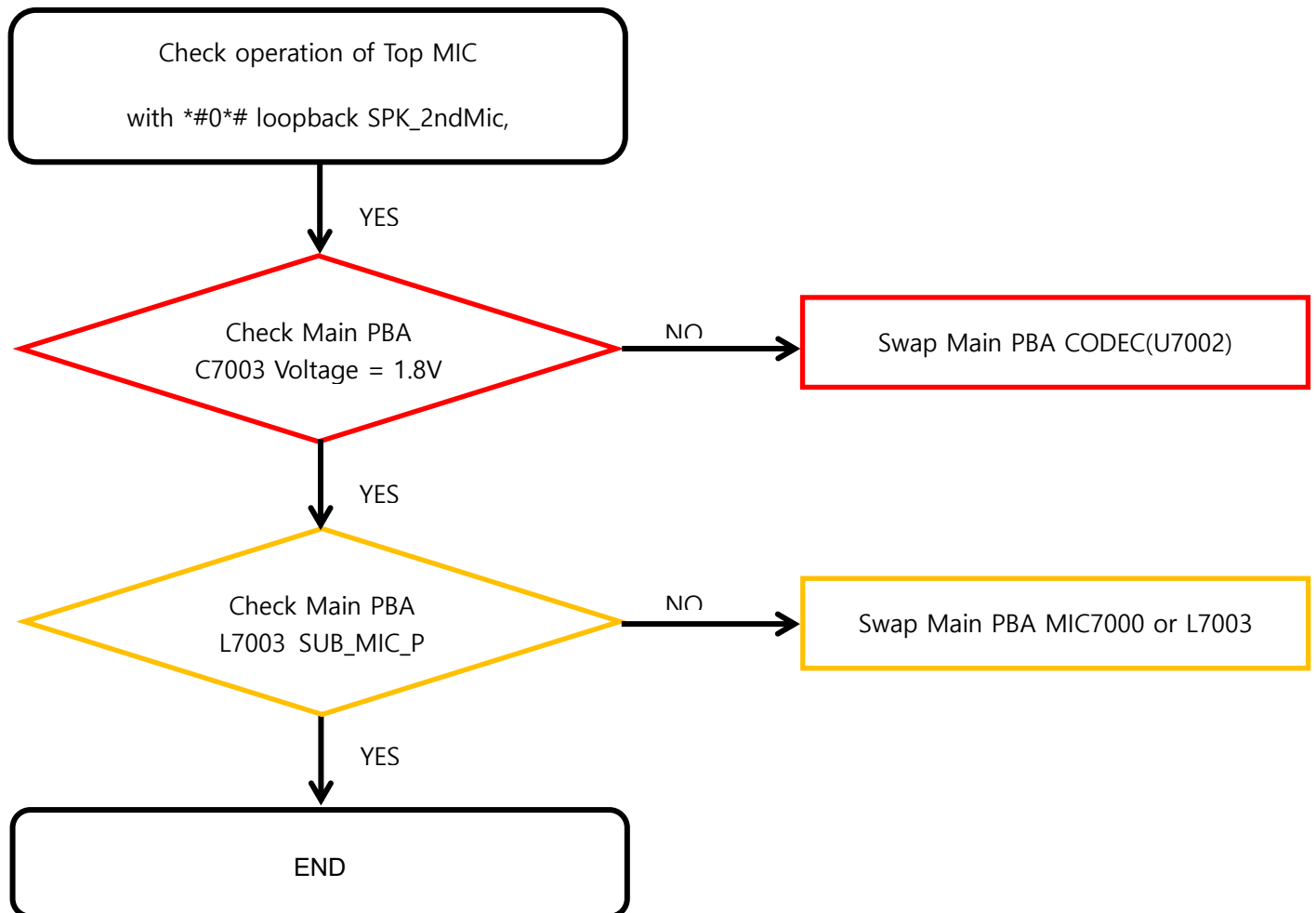


---

## 8. Level 3 Repair

---

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



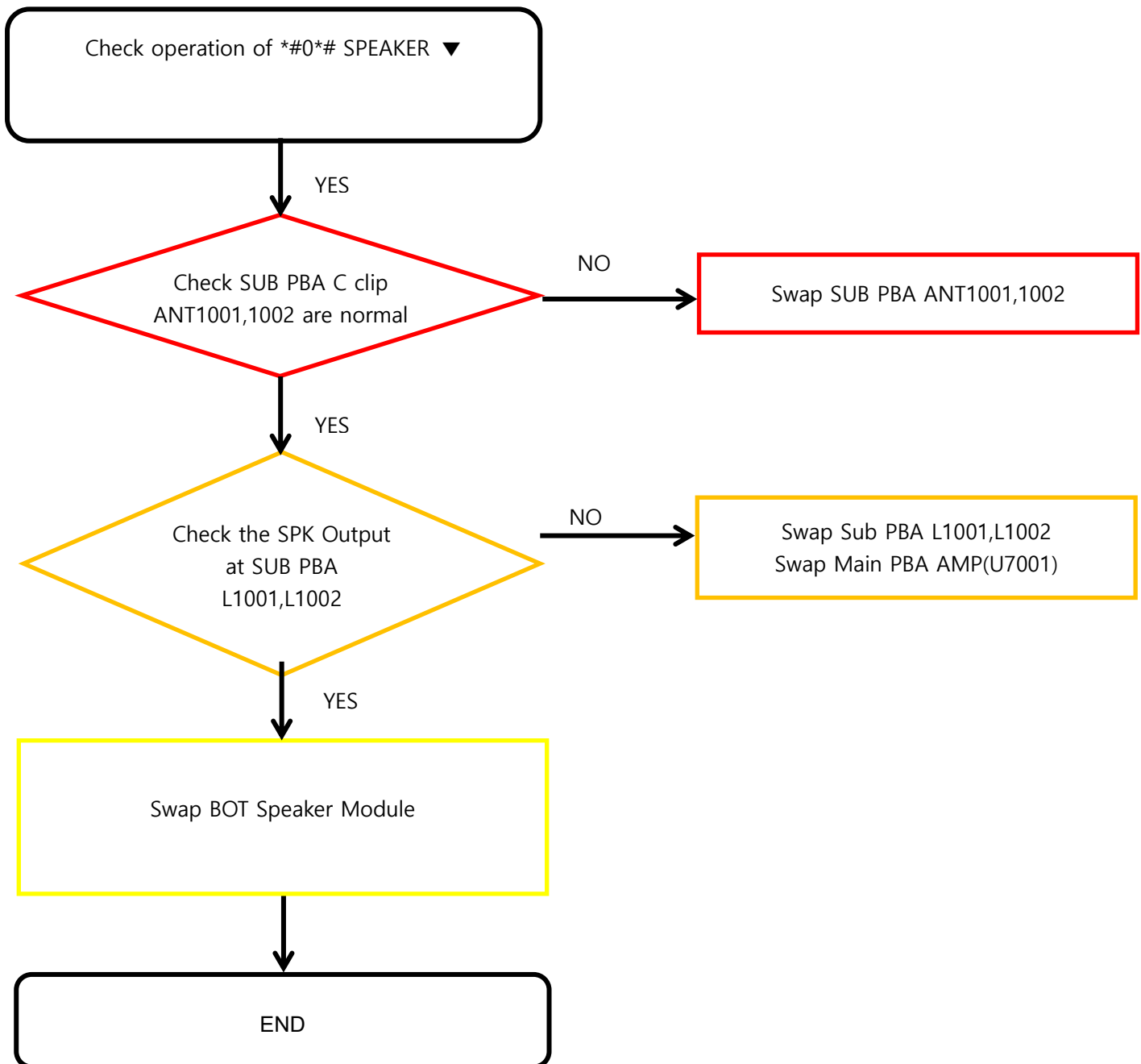


---

## 8. Level 3 Repair

---

### 8-4-10. Speaker Part - Bottom speaker

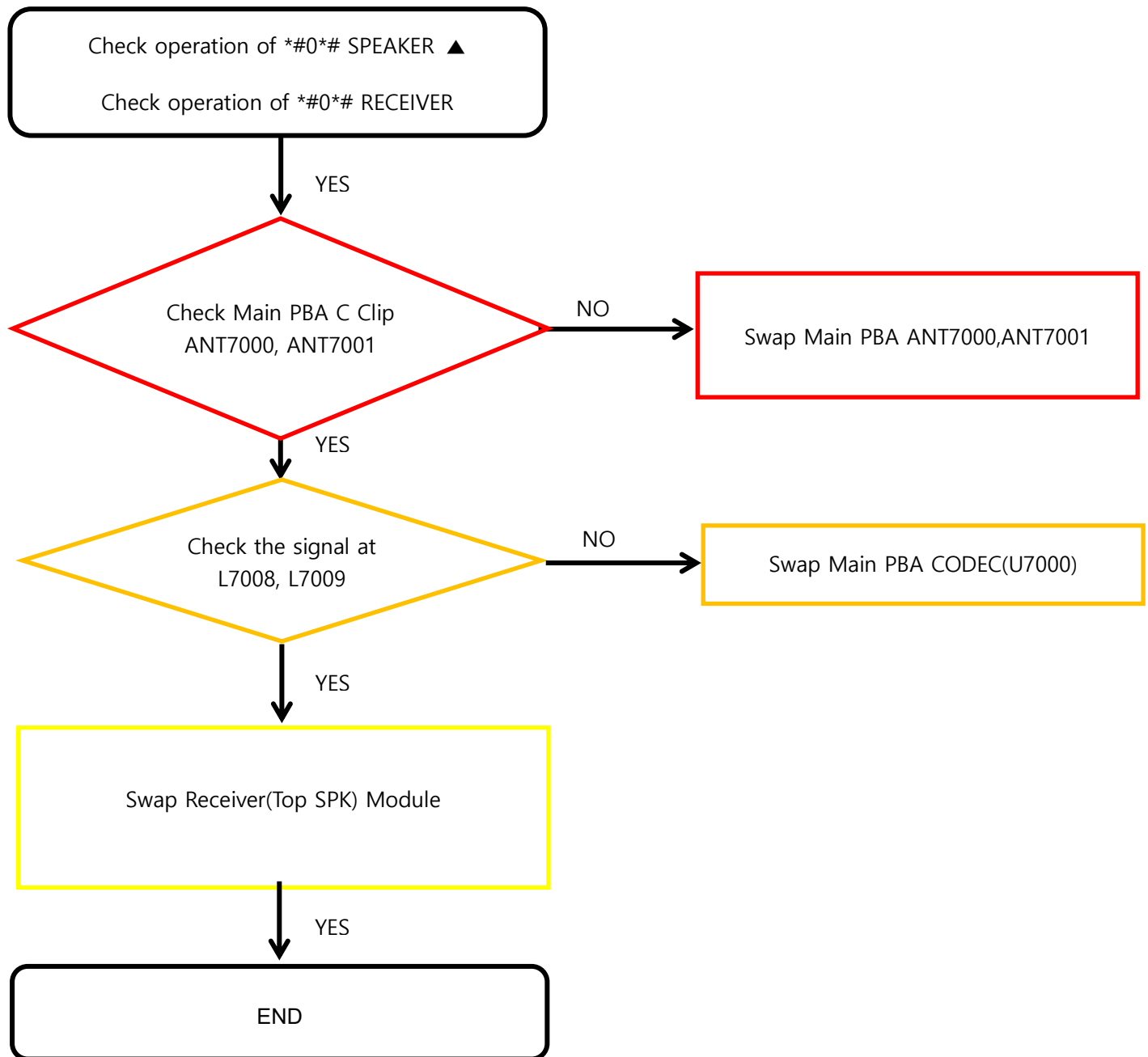


---

## 8. Level 3 Repair

---

### 8-4-11. Speaker Part - Top speaker

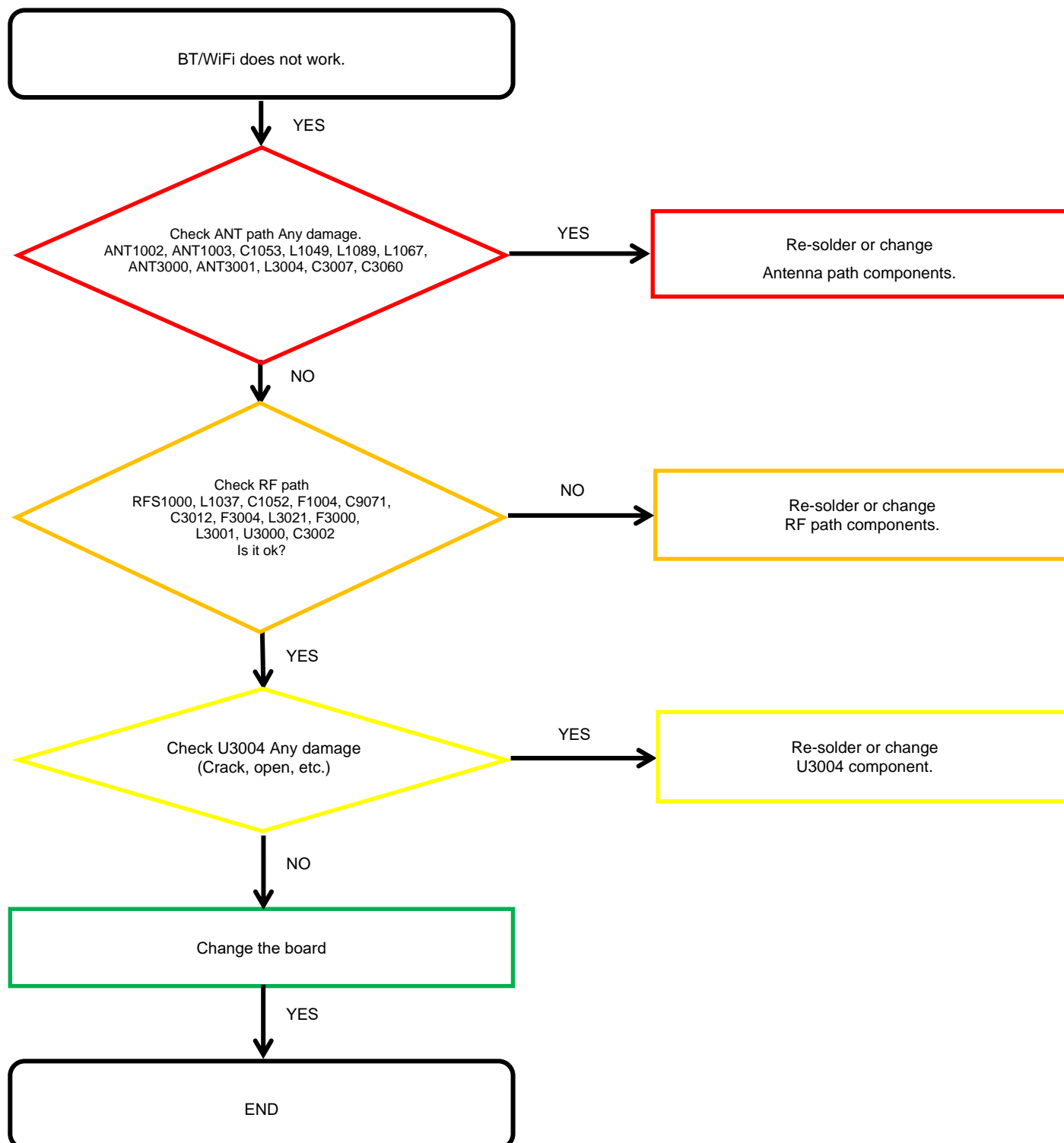


---

## 8. Level 3 Repair

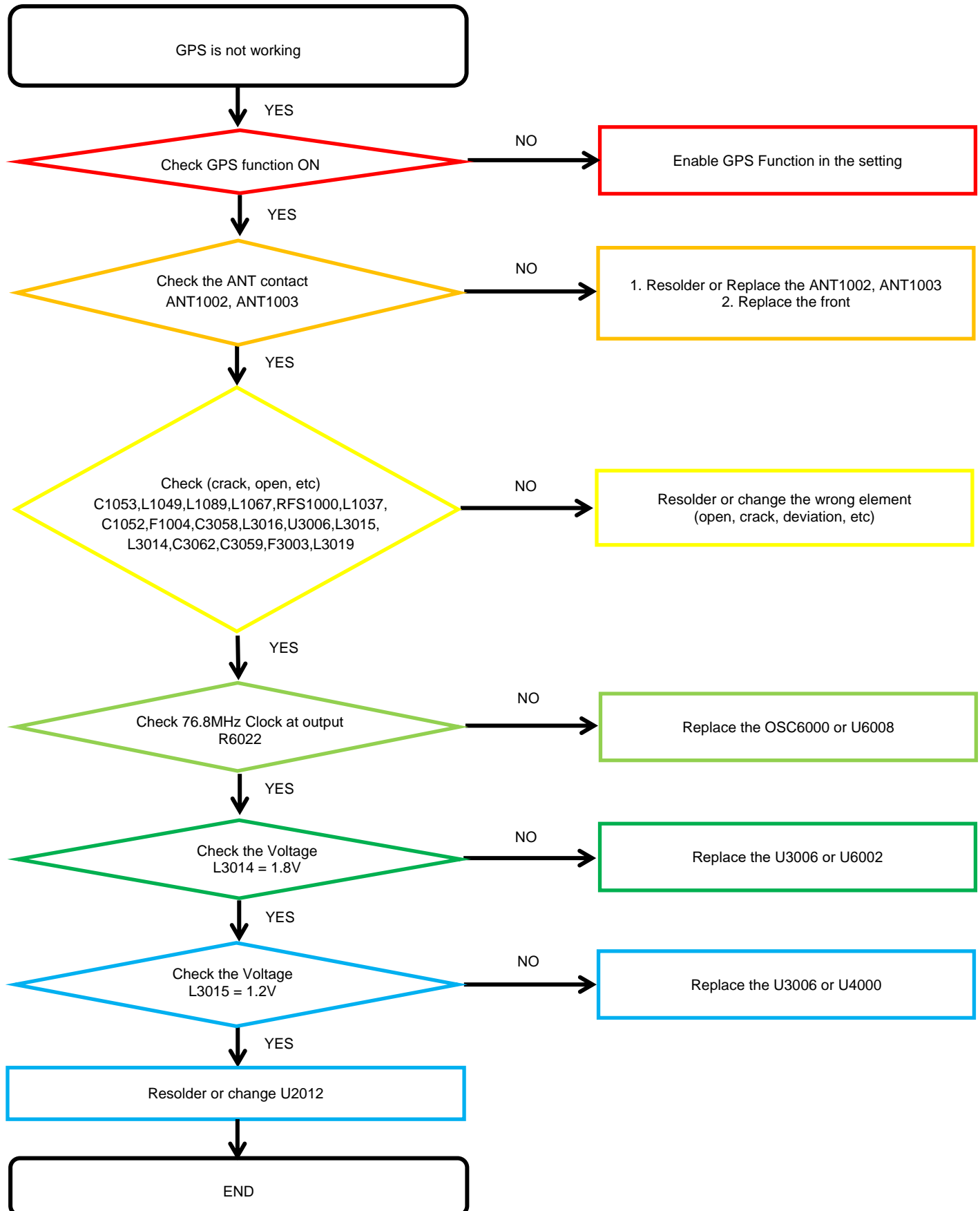
---

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



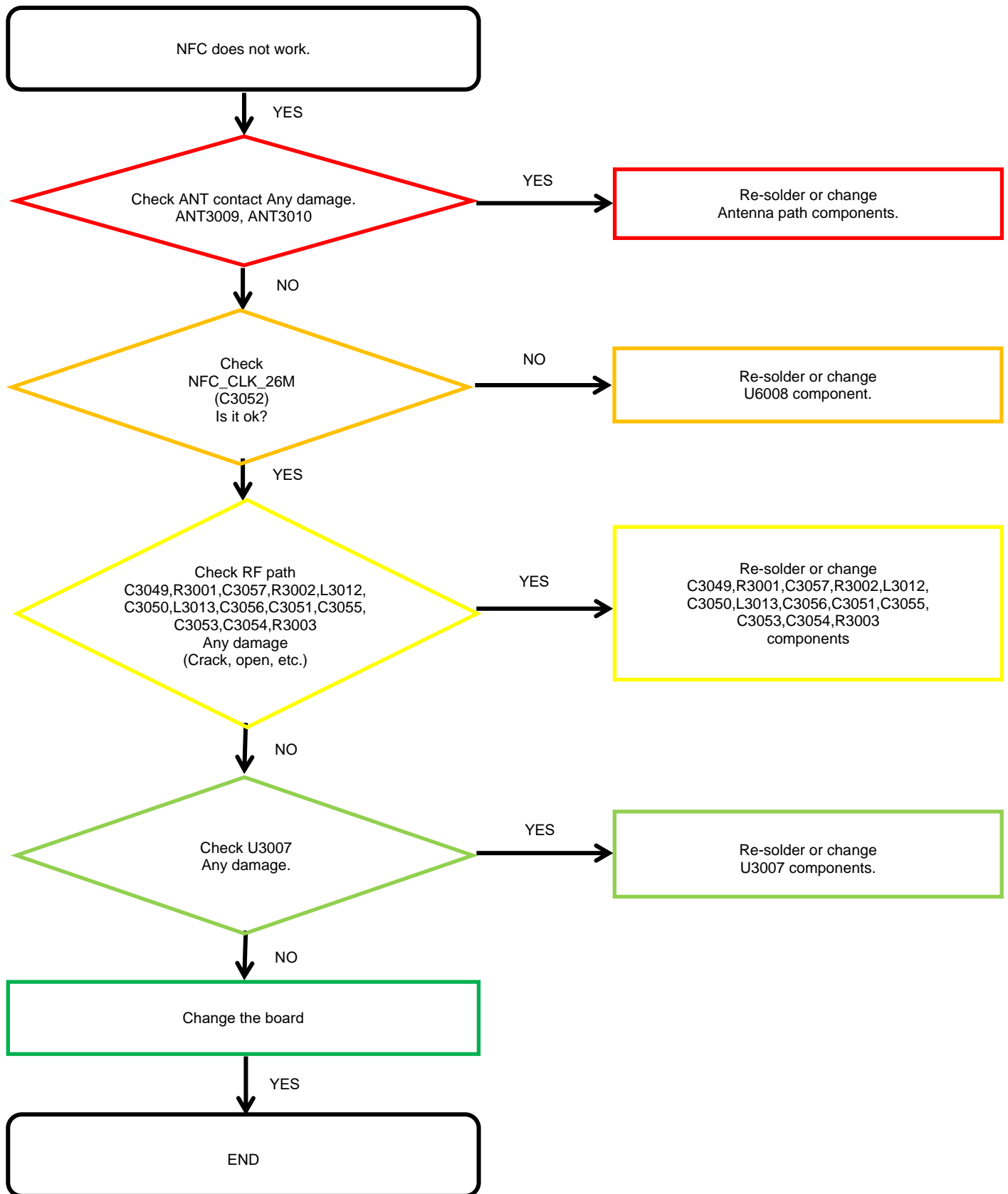
## 8. Level 3 Repair

### 8-4-13. GPS



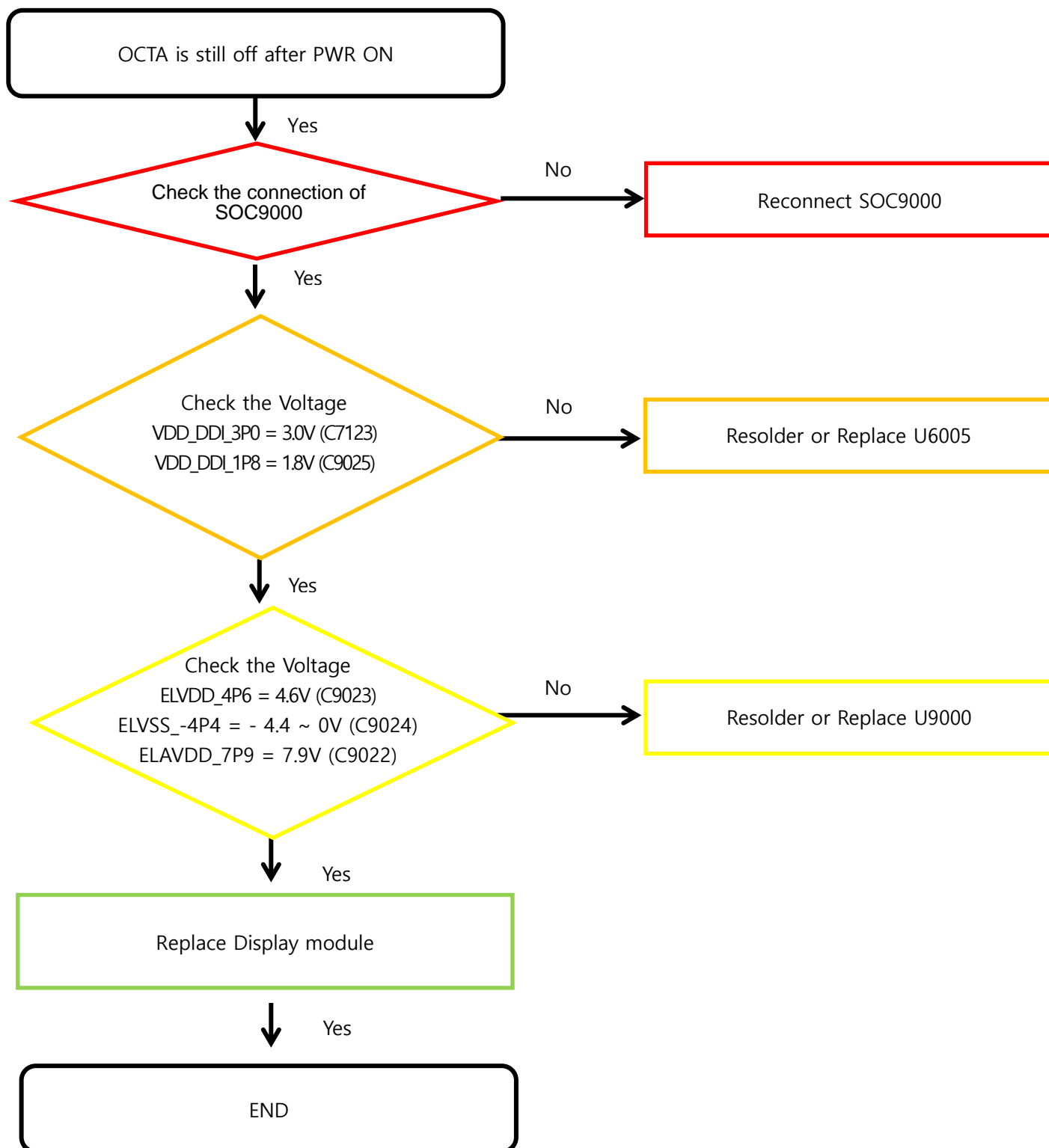
## 8. Level 3 Repair

### 8-4-14. NFC



## 8. Level 3 Repair

### 8-4-15. Display



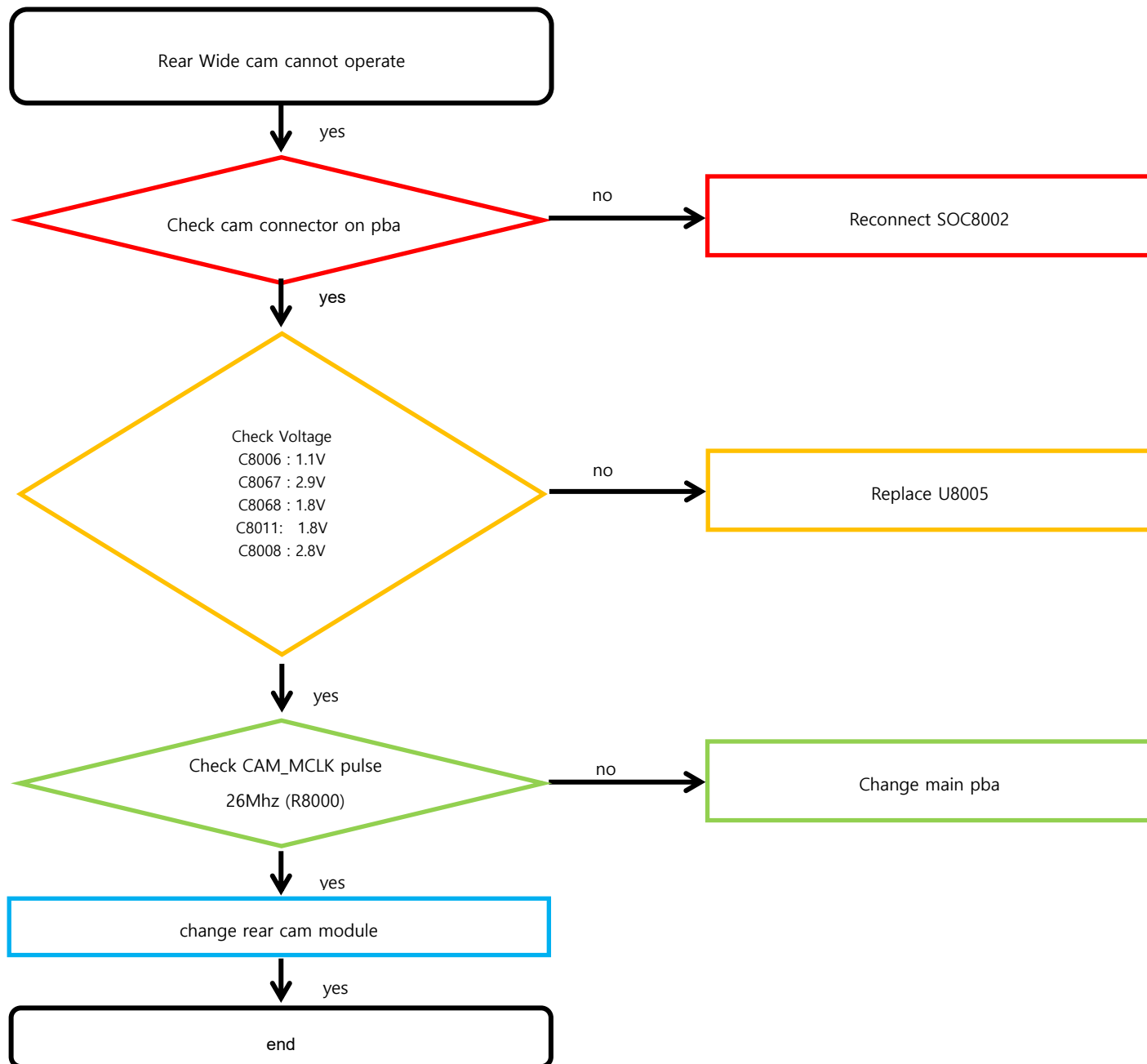


---

## 8. Level 3 Repair

---

### 8-4-16. Rear CAMERA (64M)

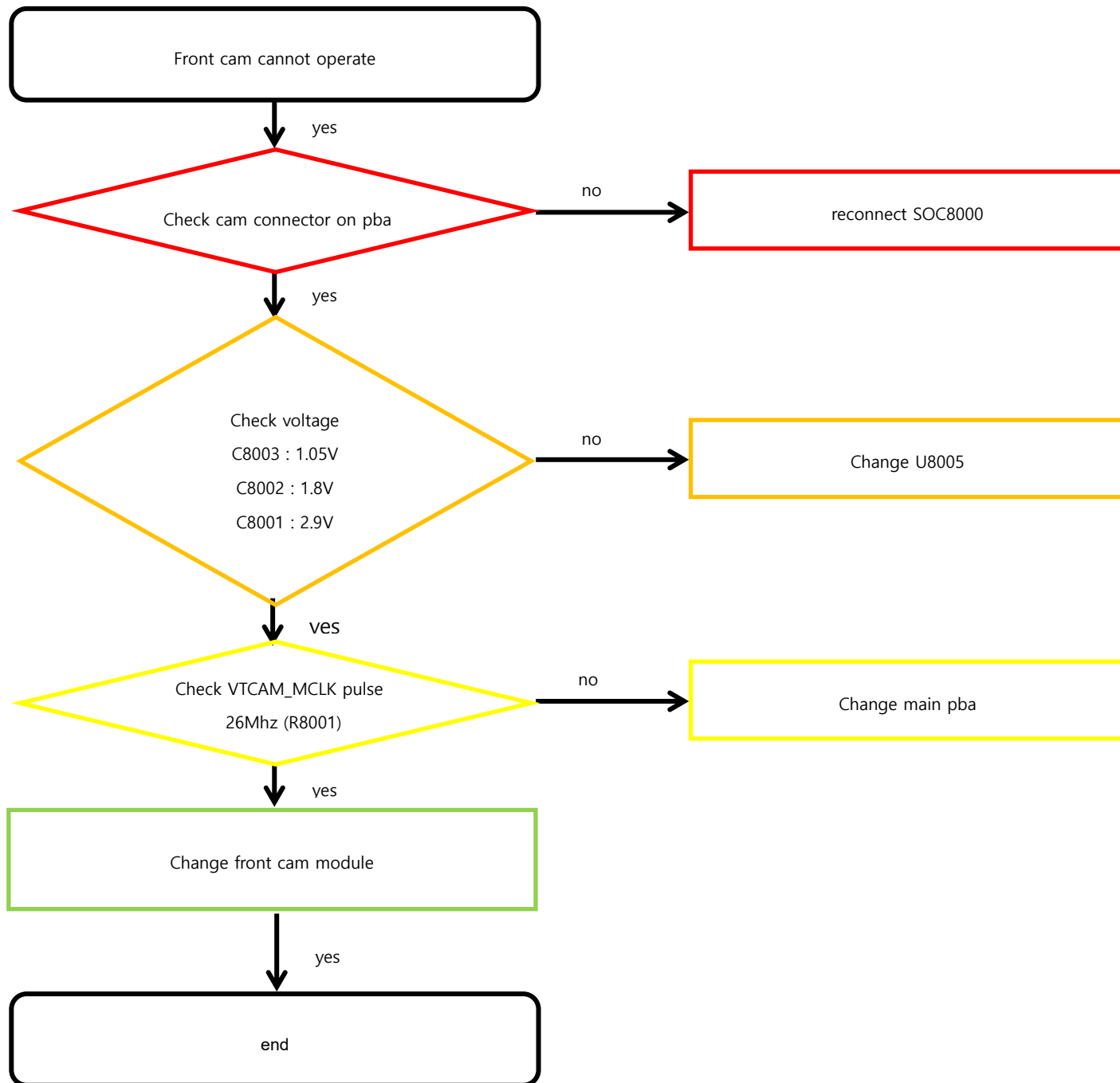


---

## 8. Level 3 Repair

---

### 8-4-17. Front Cam (32M)

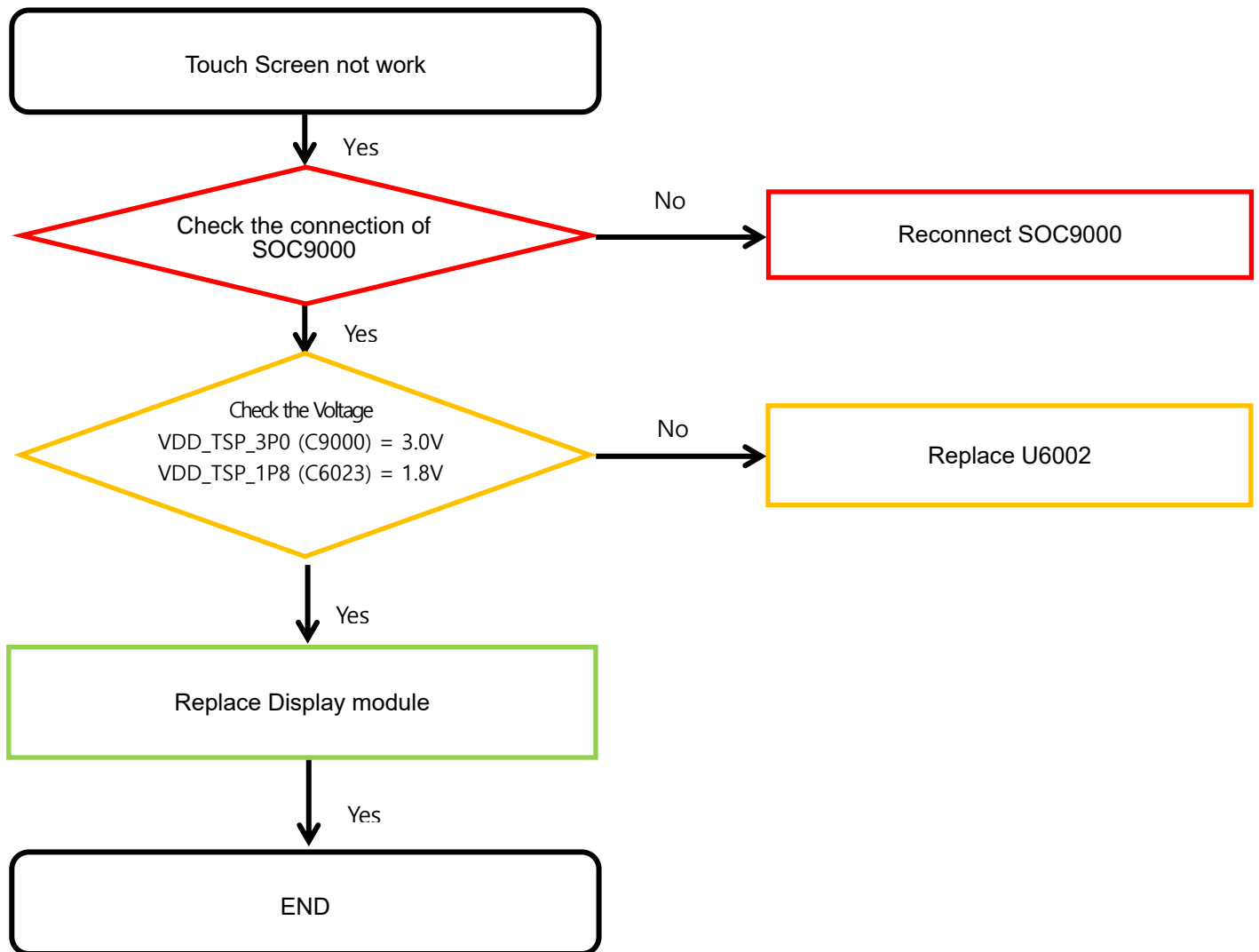


---

## 8. Level 3 Repair

---

### 8-4-18. TSP

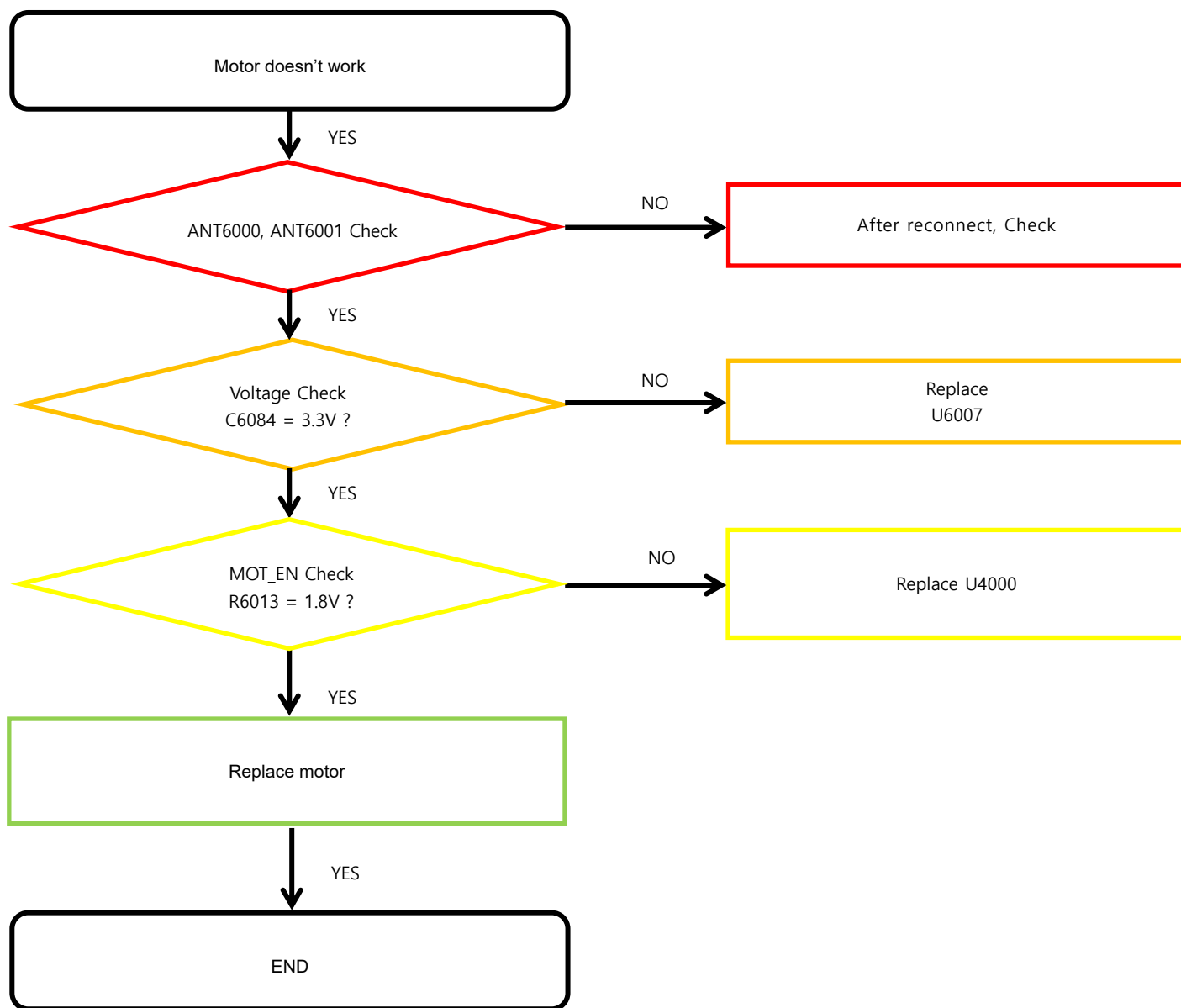


---

## 8. Level 3 Repair

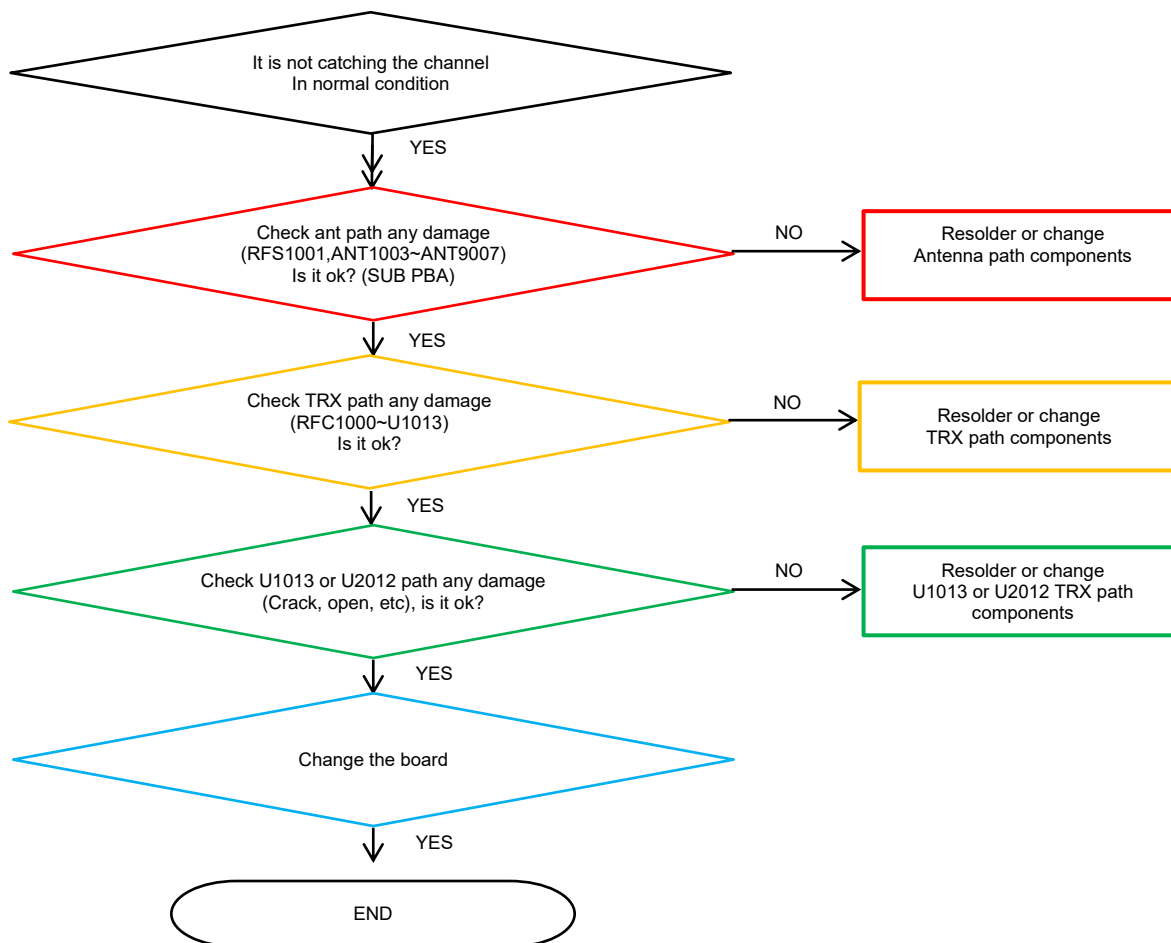
---

### 8-4-19. Motor



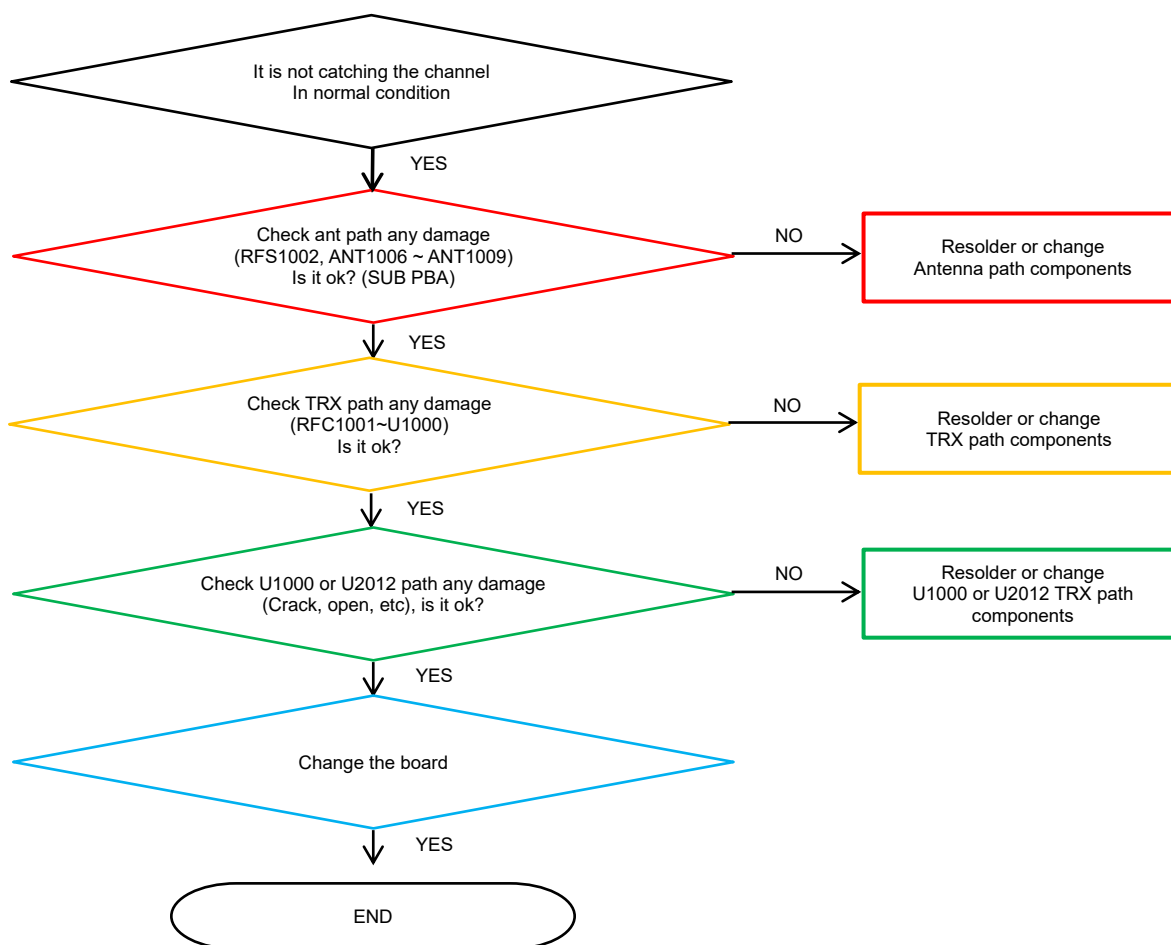
## 8. Level 3 Repair

### 8-4-20. GSM850/900, WCDMA B5/8, LTE B5/8/12/17/20/26/28, NR N5/8/20/28 TRX



## 8. Level 3 Repair

### 8-4-21. GSM DCS/PCS, WCDMA B1/2/4, LTE B1/2/3/4/7/32/38/40/41/66, N1/3/7/40/66 TRX



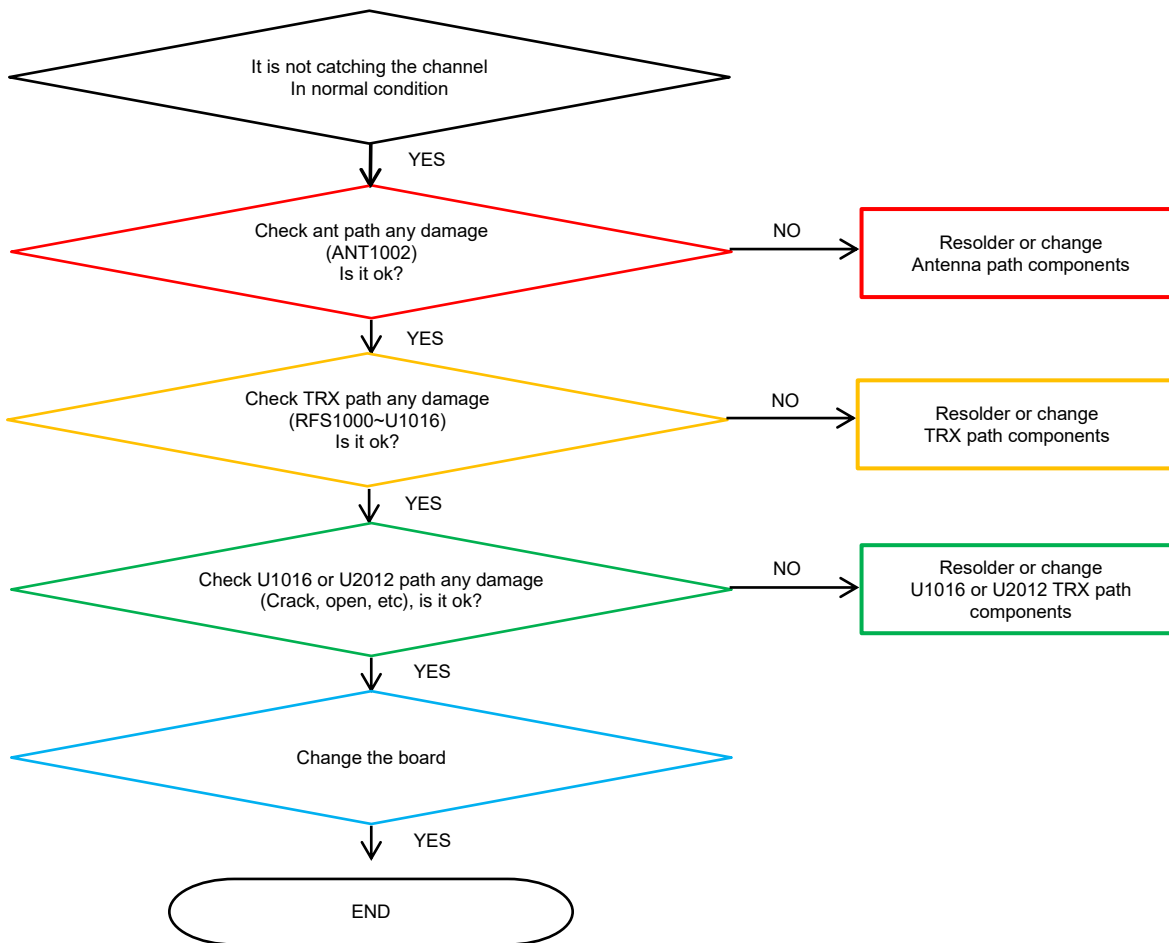


---

## 8. Level 3 Repair

---

### 8-4-22. N38/41 TRX

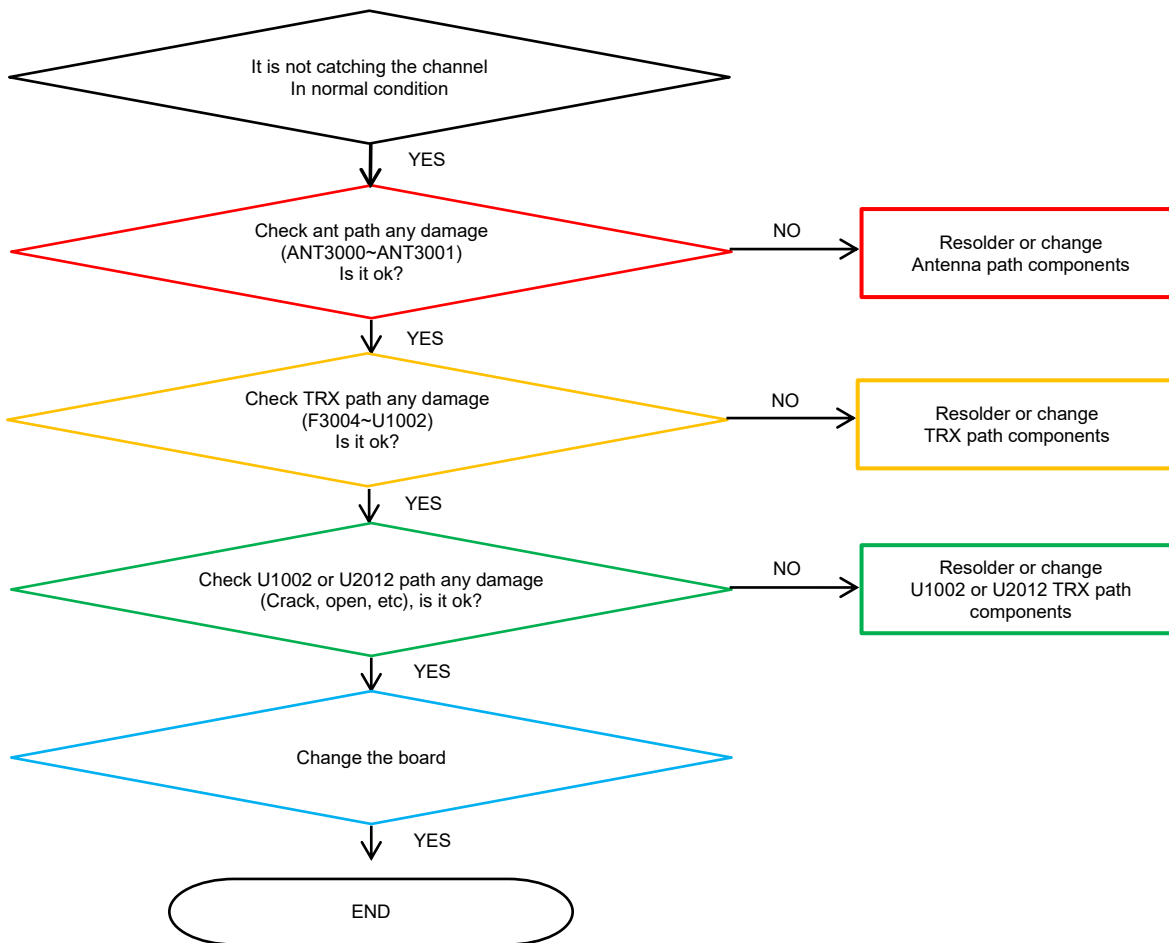


---

## 8. Level 3 Repair

---

### 8-4-23. N78 TRX

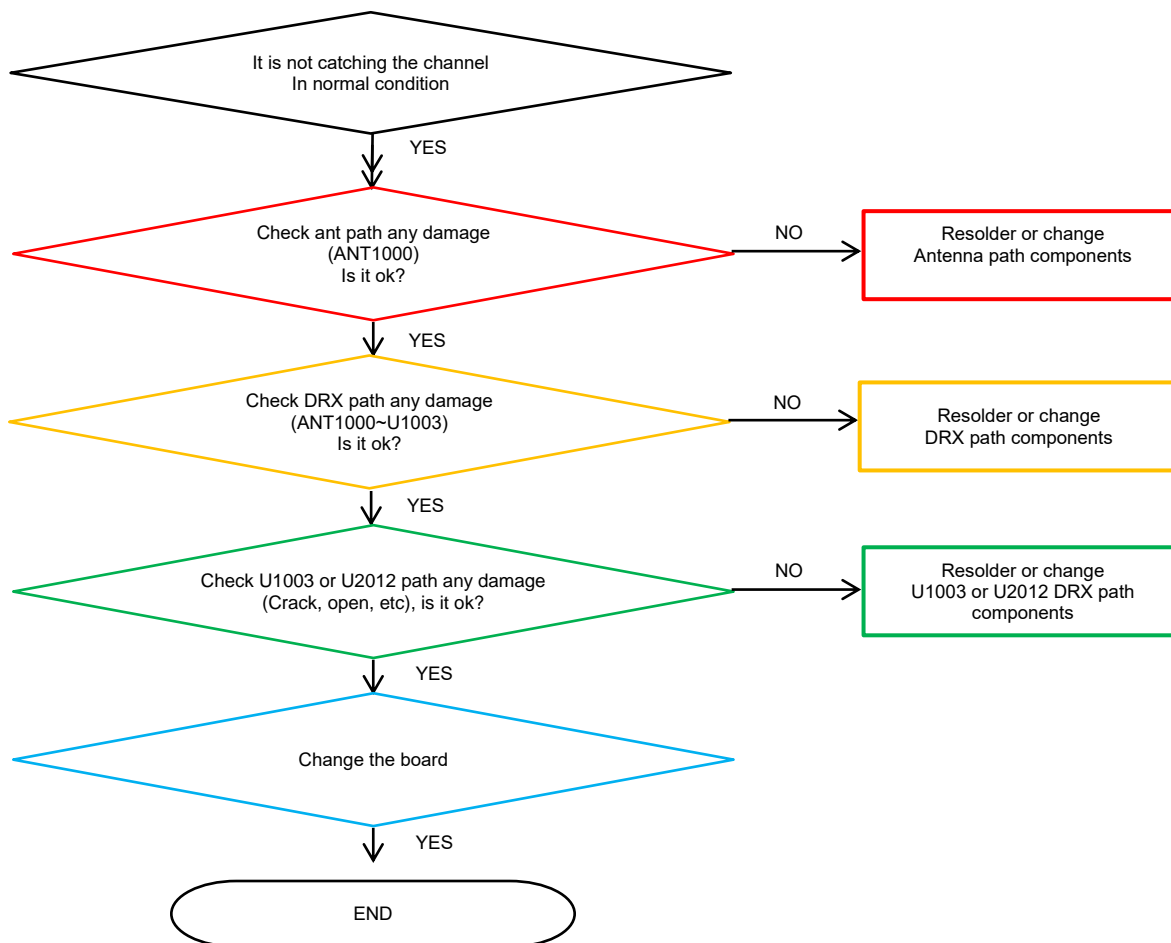


---

## 8. Level 3 Repair

---

### 8-4-24. GSM850/900, WCDMA B5/8, LTE B5/8/12/17/20/26/28, NR N5/8/20/28 DRX

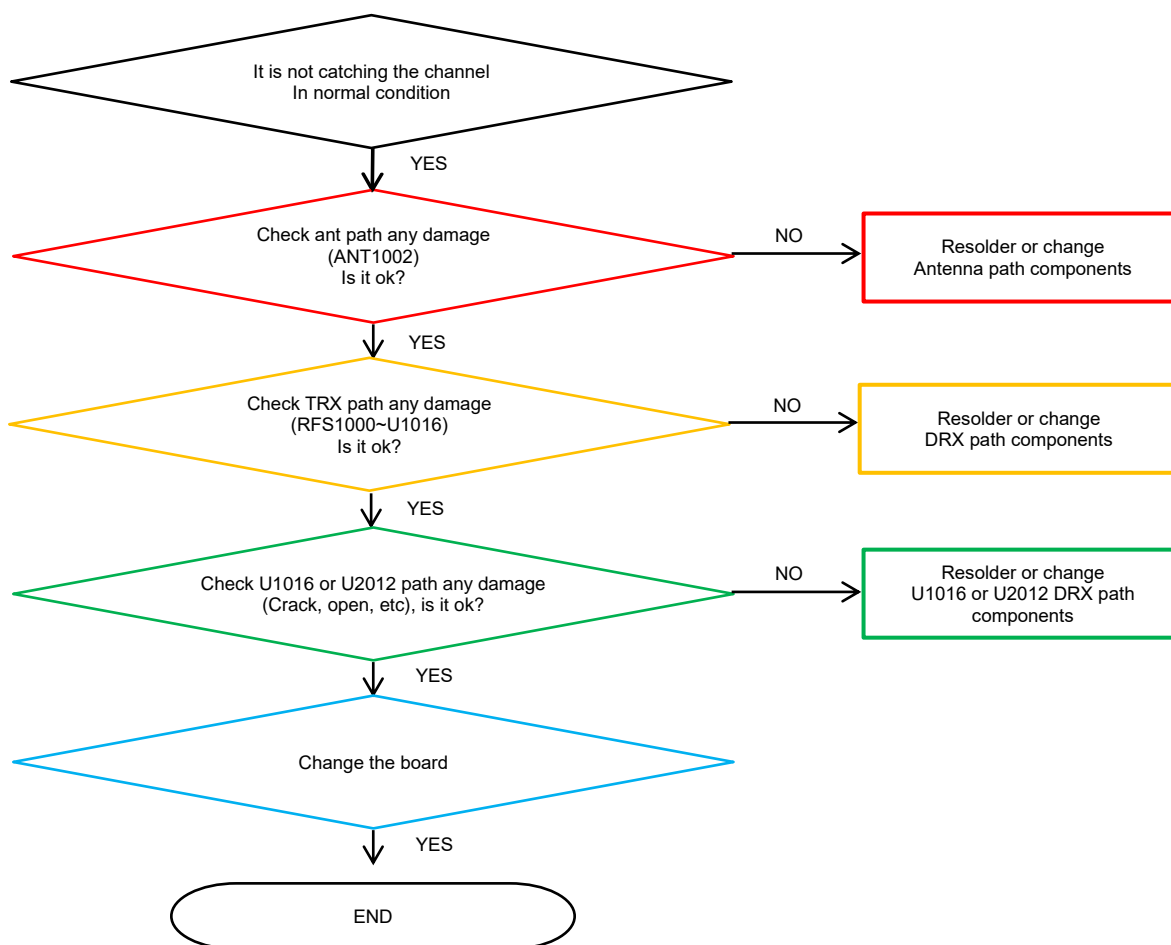


---

## 8. Level 3 Repair

---

### 8-4-25. GSM DCS/PCS, WCDMA B1/2/4, LTE B1/2/3/4/7/32/38/40/41/66, N1/3/7/40/66 DRX

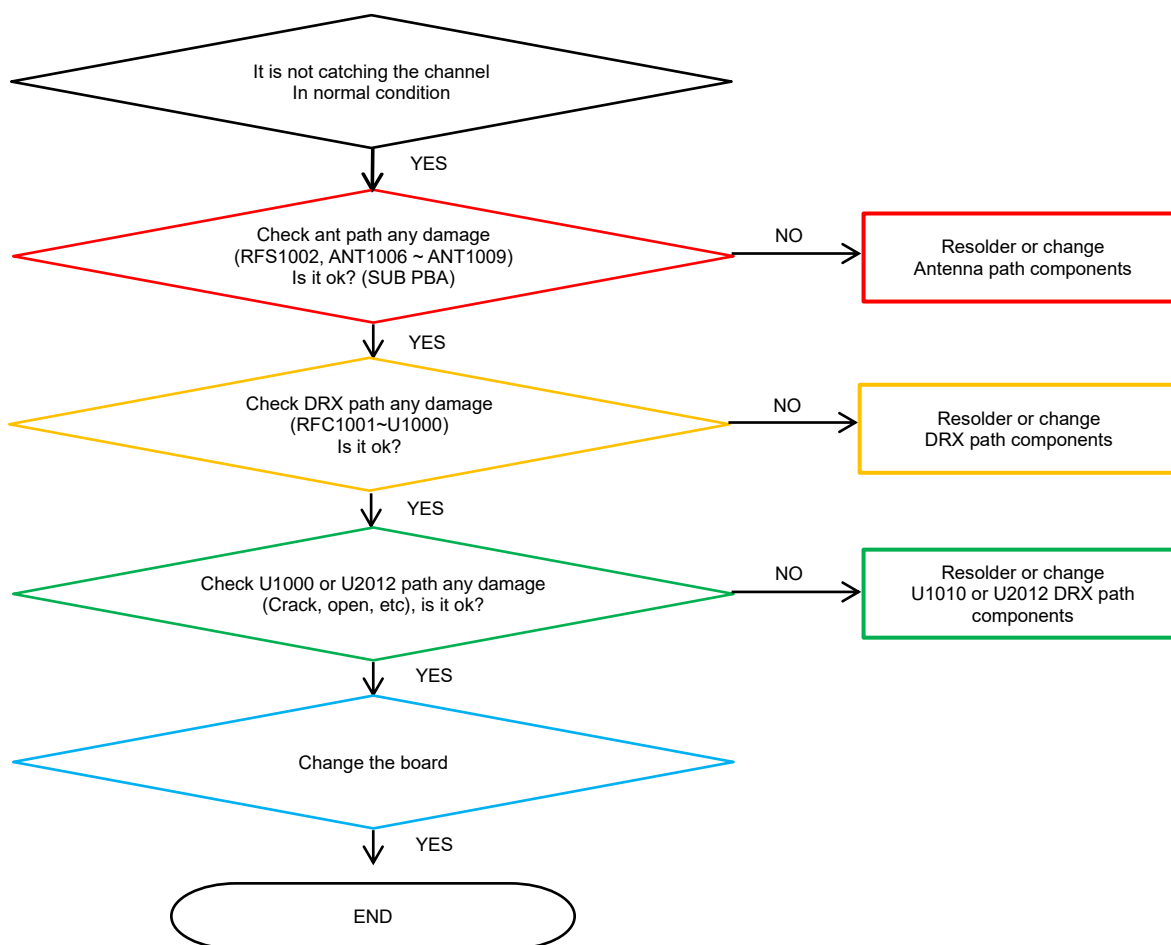


---

## 8. Level 3 Repair

---

### 8-4-26. N38/41 DRX

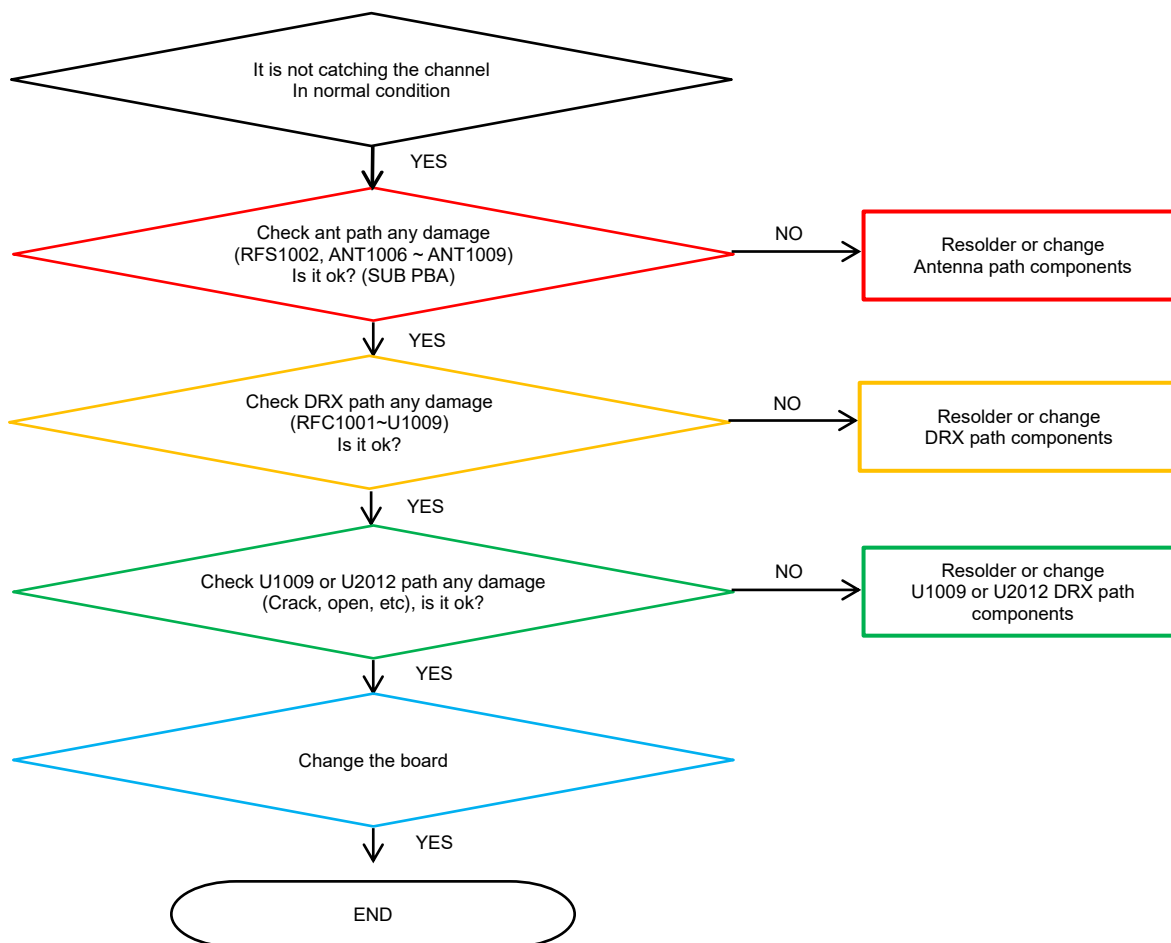


---

## 8. Level 3 Repair

---

### 8-4-27. N78 DRX

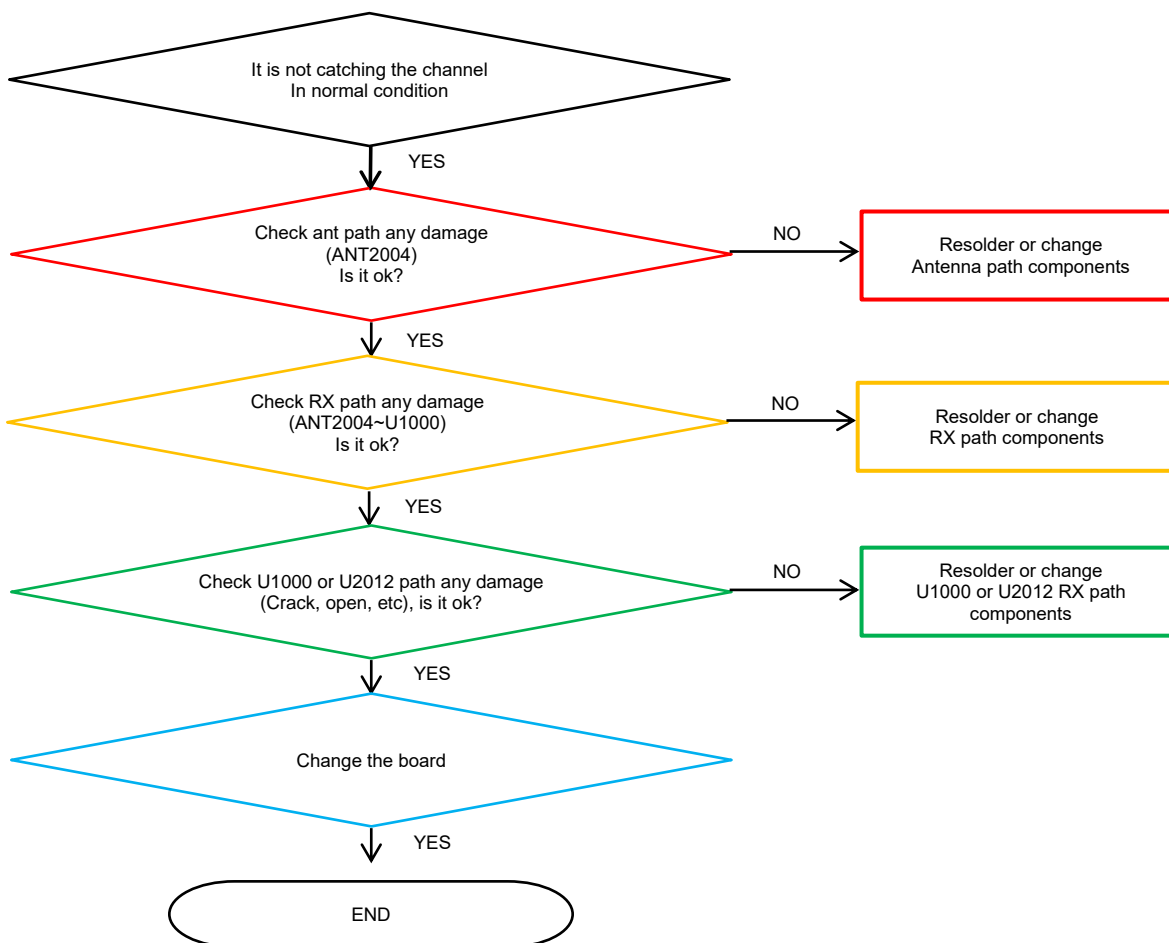


---

## 8. Level 3 Repair

---

### 8-4-28. LTE B1/3 & N1/3 PRX MIMO

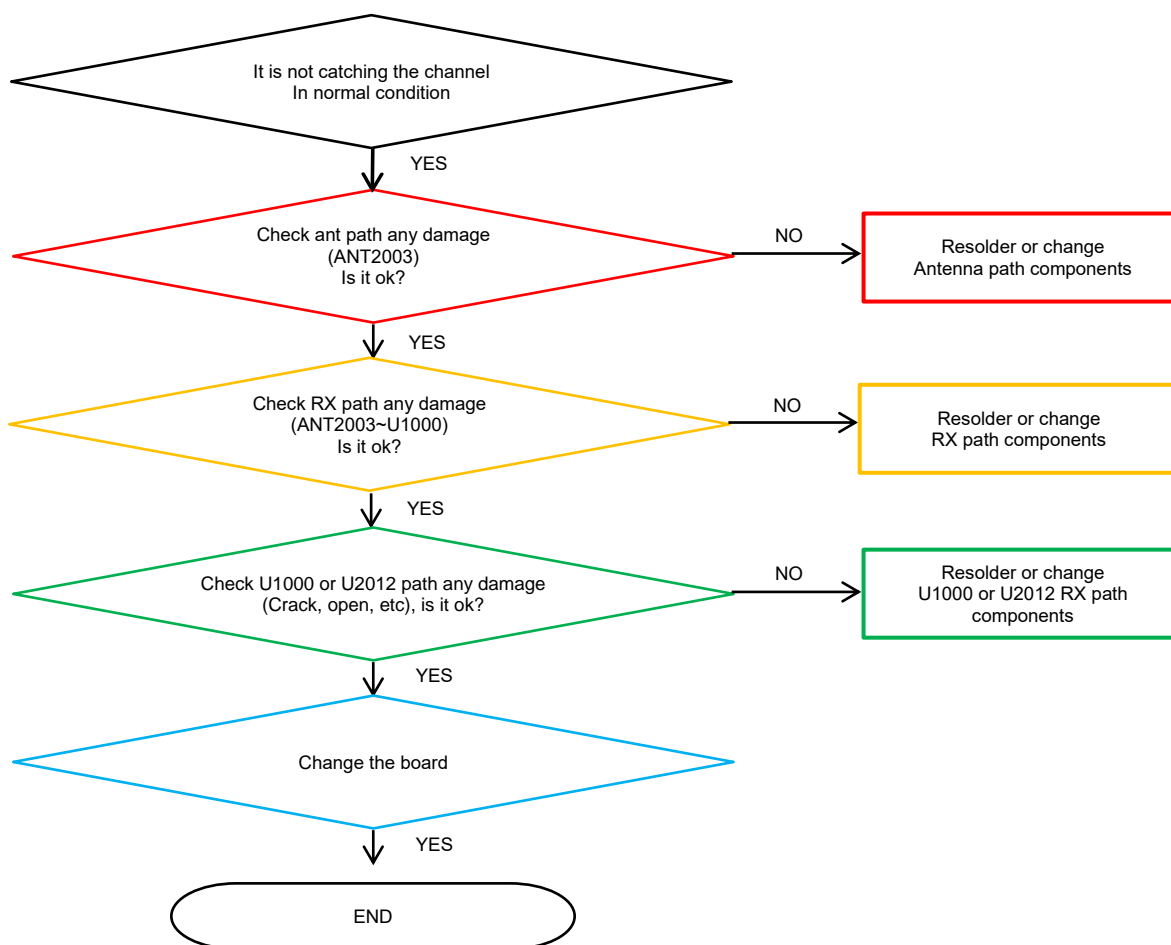


---

## 8. Level 3 Repair

---

### 8-4-29. LTE B7 & N7 PRX MIMO, LTE B38/41 & N38/41 DRX MIMO



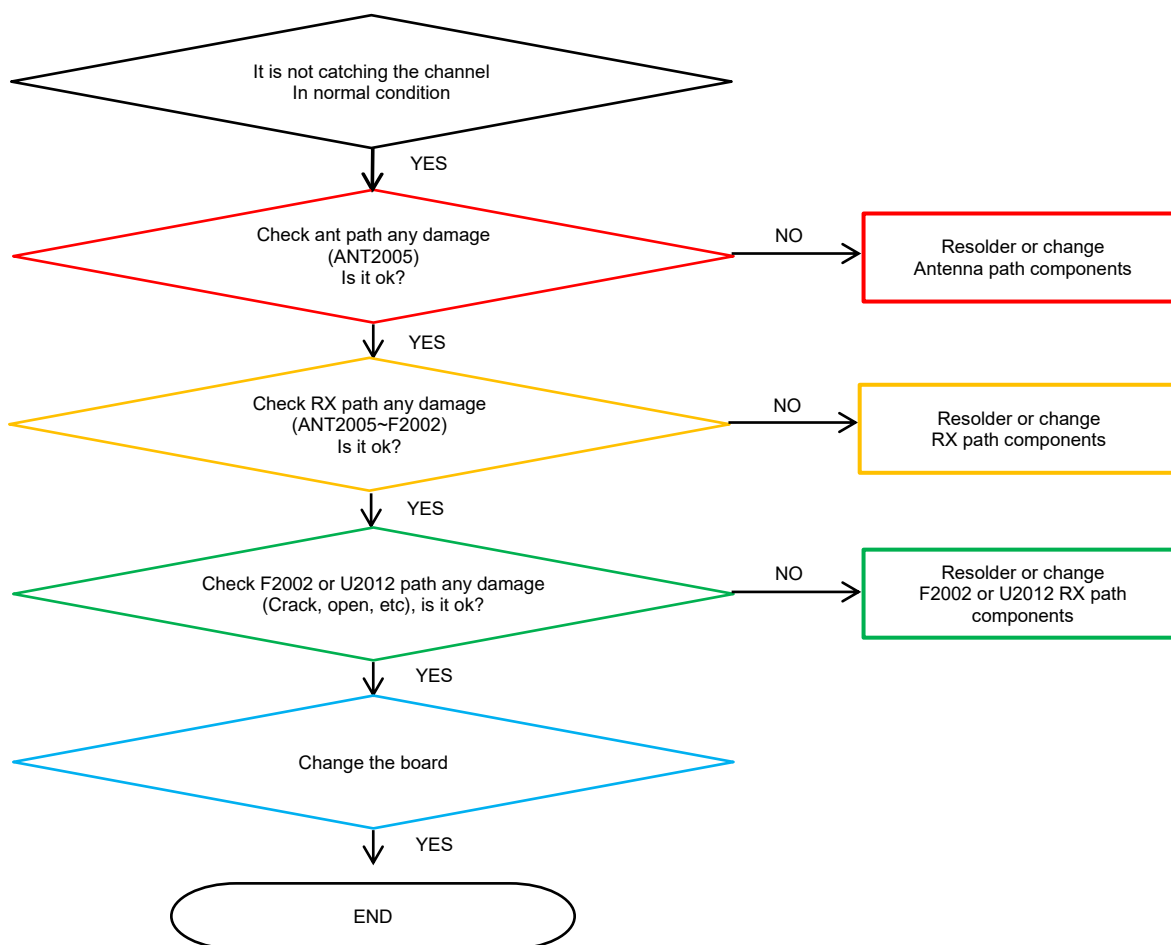


---

## 8. Level 3 Repair

---

### 8-4-30. LTE B38/41 & N38/41 PRX MIMO, LTE B7 & N7 DRX MIMO

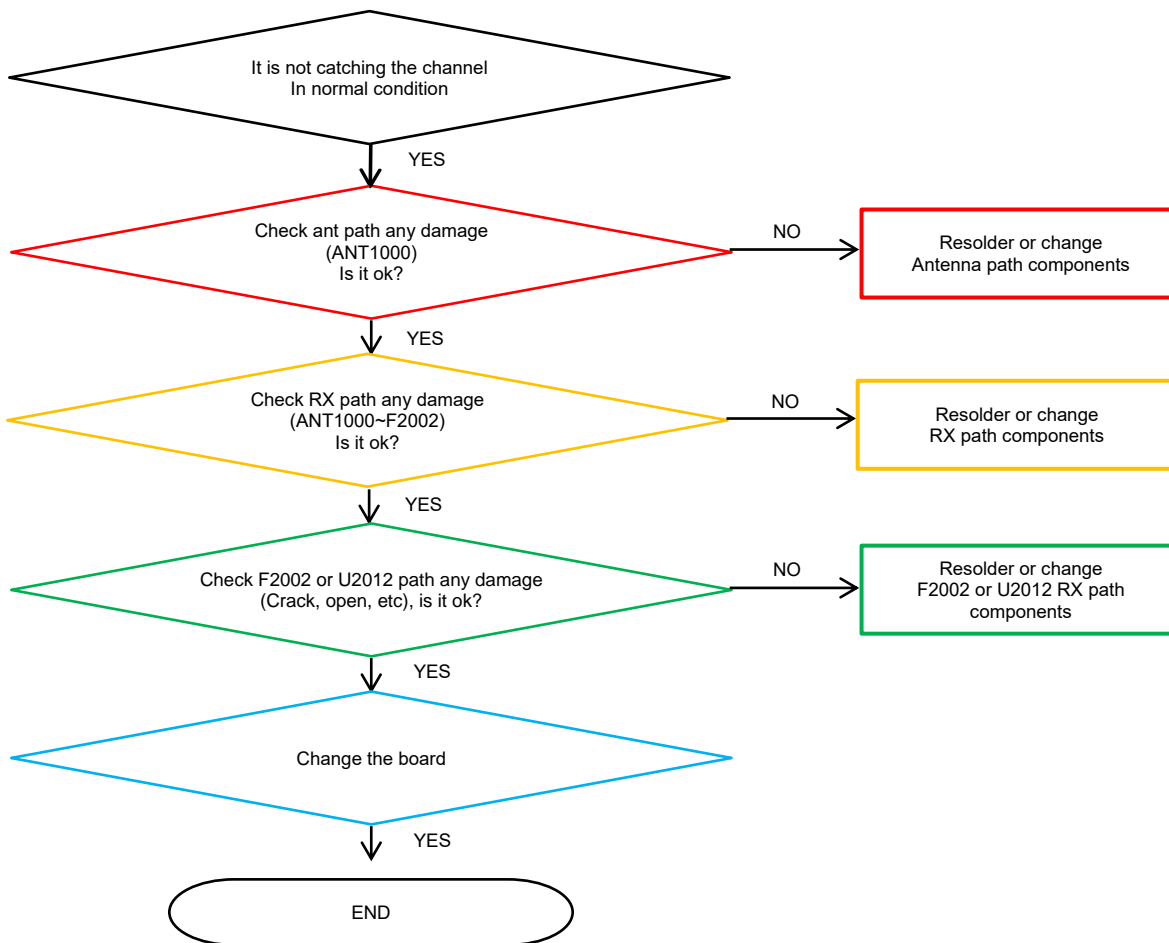


---

## 8. Level 3 Repair

---

### 8-4-31. LTE B1/3 & N1/3 DRX MIMO

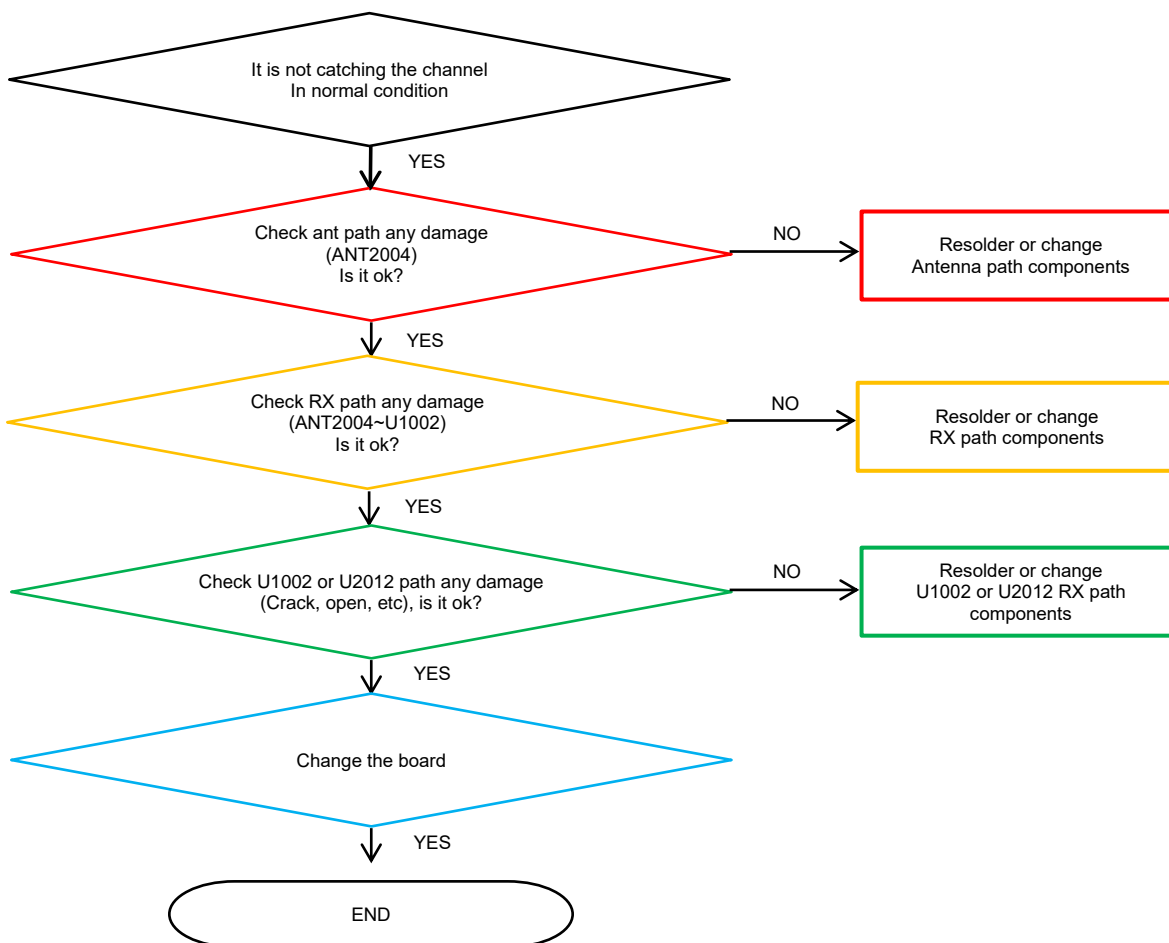


---

## 8. Level 3 Repair

---

### 8-4-32. N78 PRX MIMO



## 8. Level 3 Repair

### 8-4-33. N78 DRX MIMO

