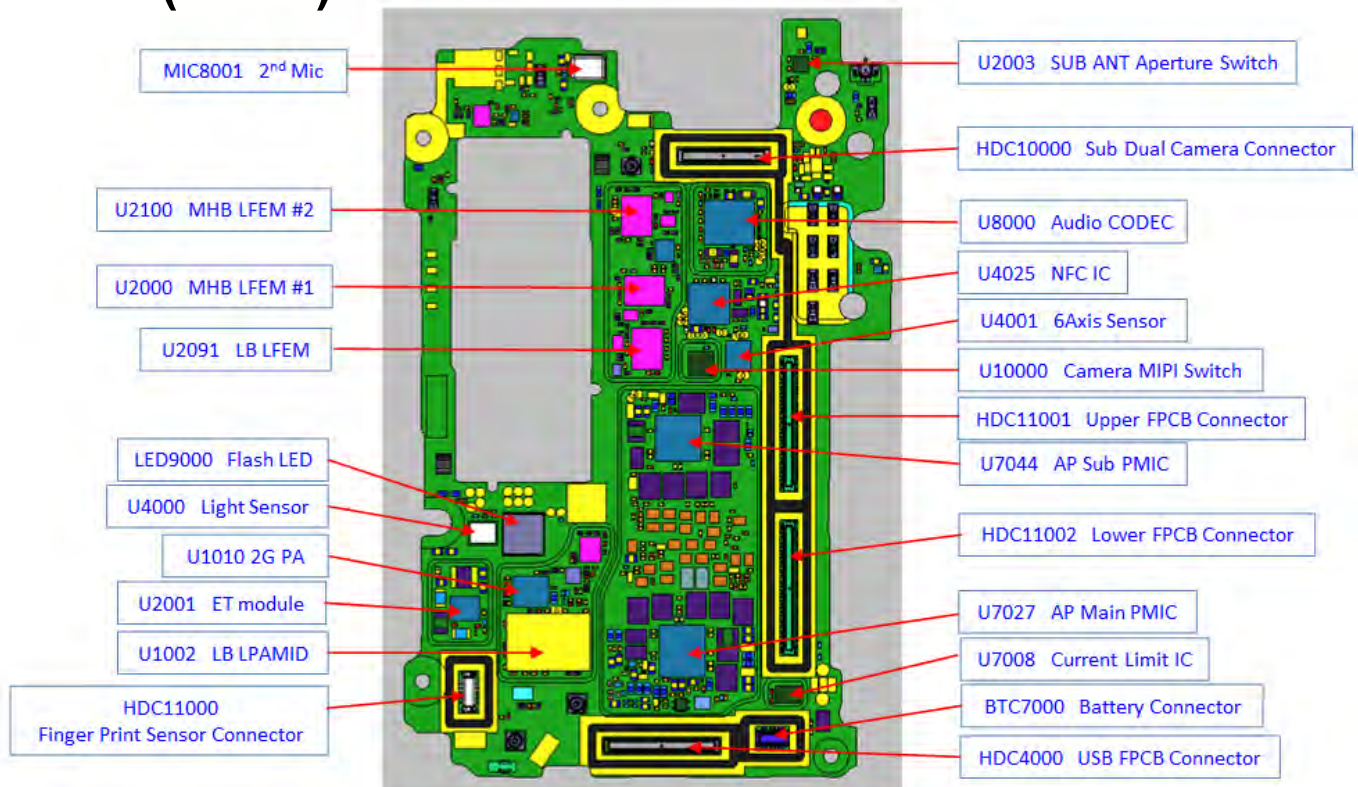
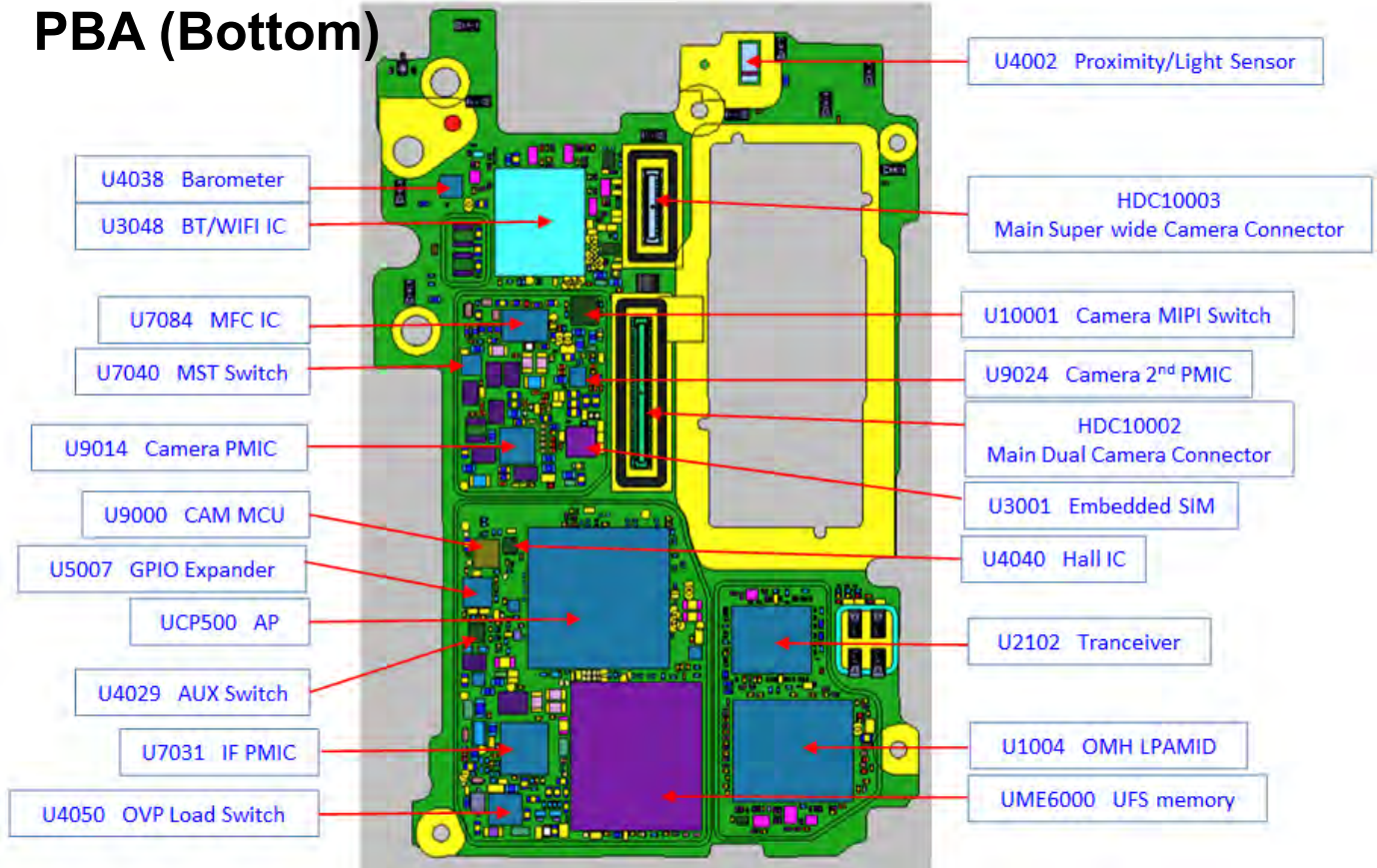


## 8. Level 3 Repair

### 8-1. Components Layout PBA ( TOP )



### PBA (Bottom)

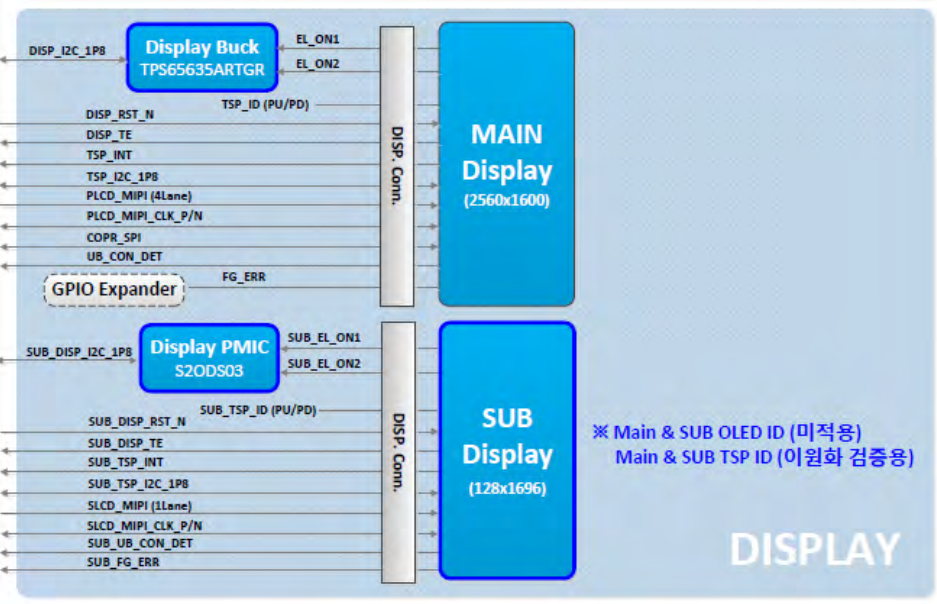
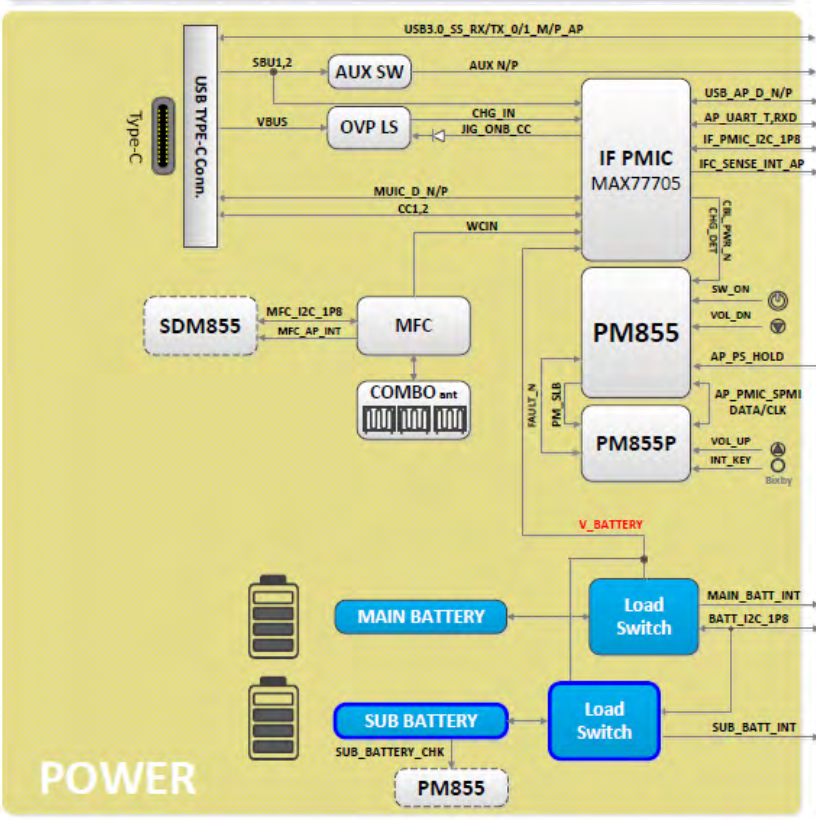
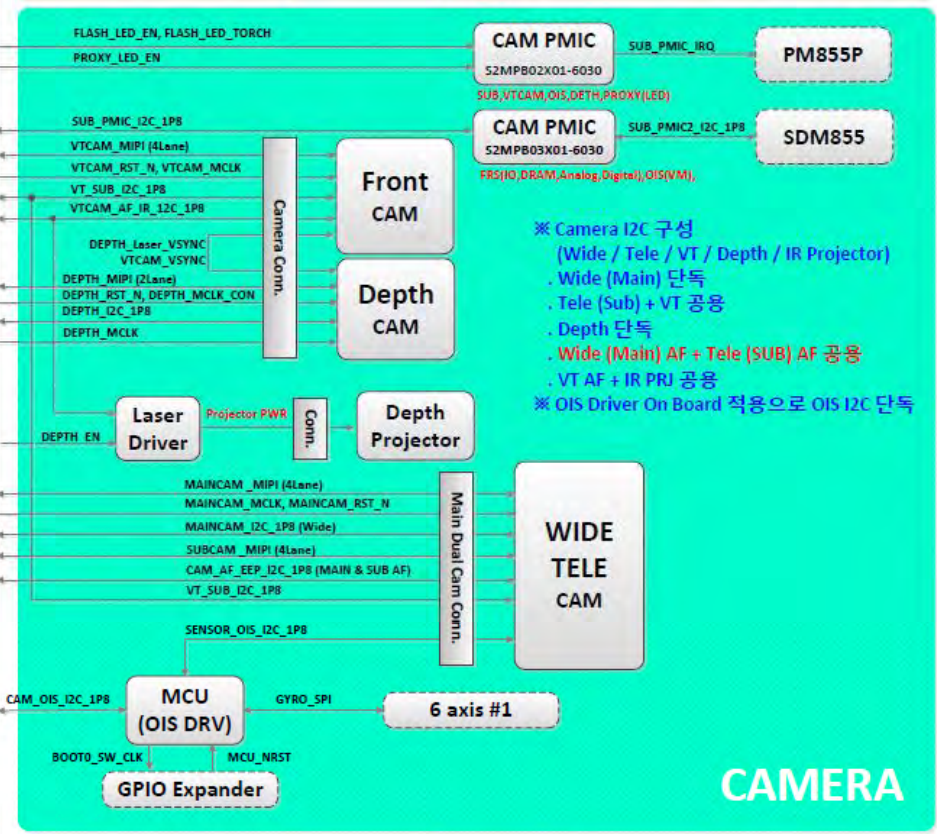
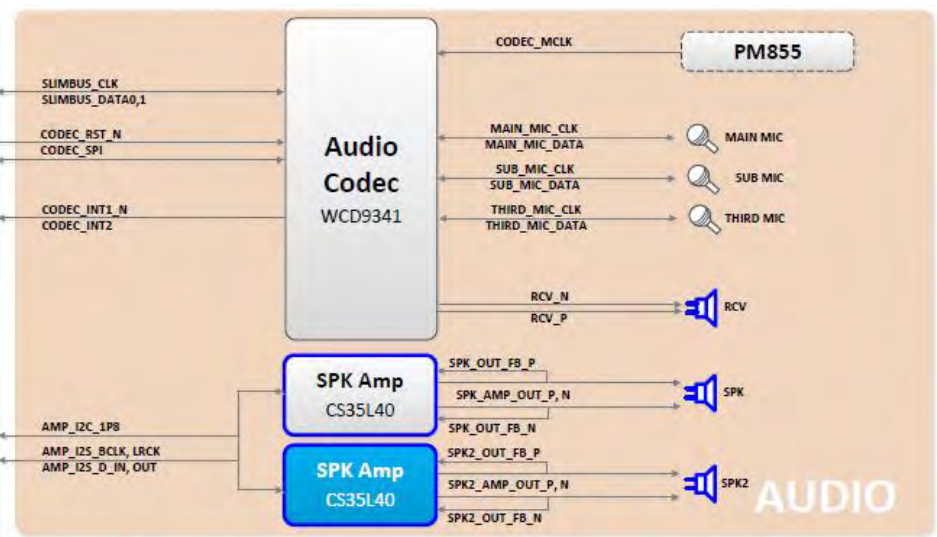
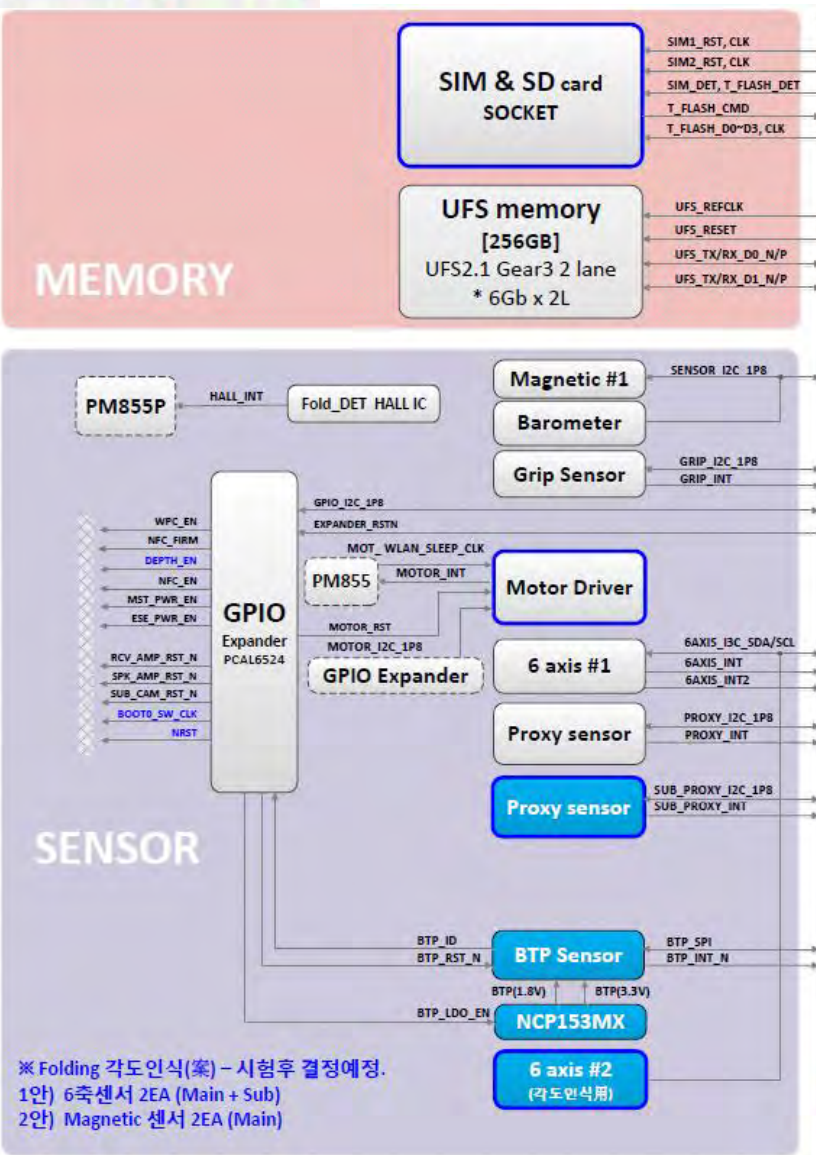


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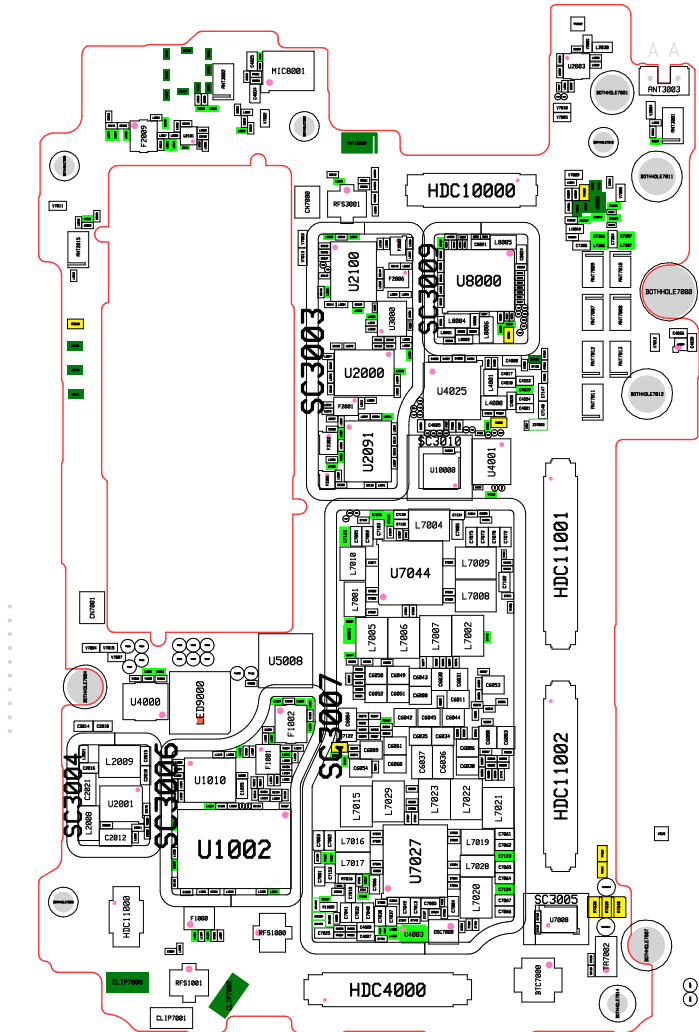
Distribution, transmission, or infringement of any content or data from this document without Samsung's written authorization is strictly prohibited.

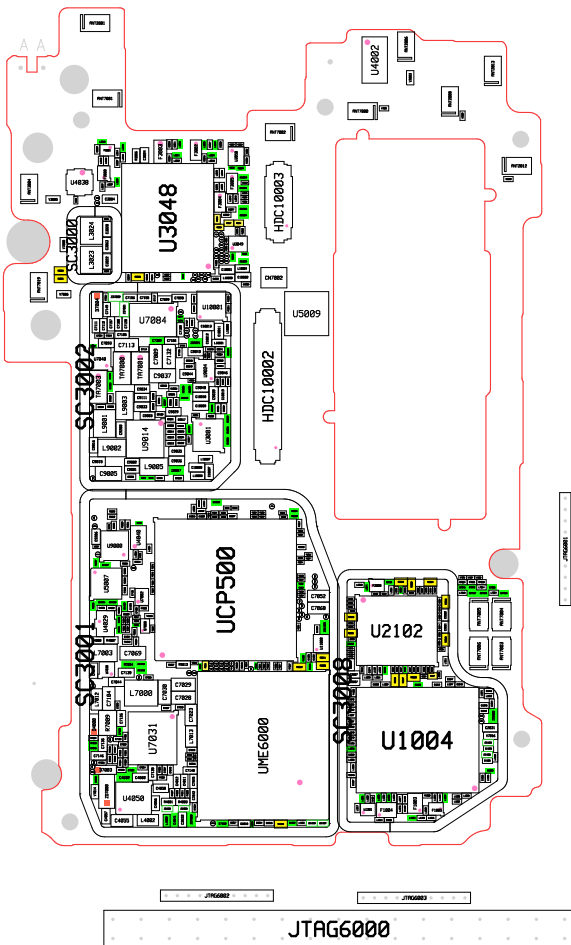


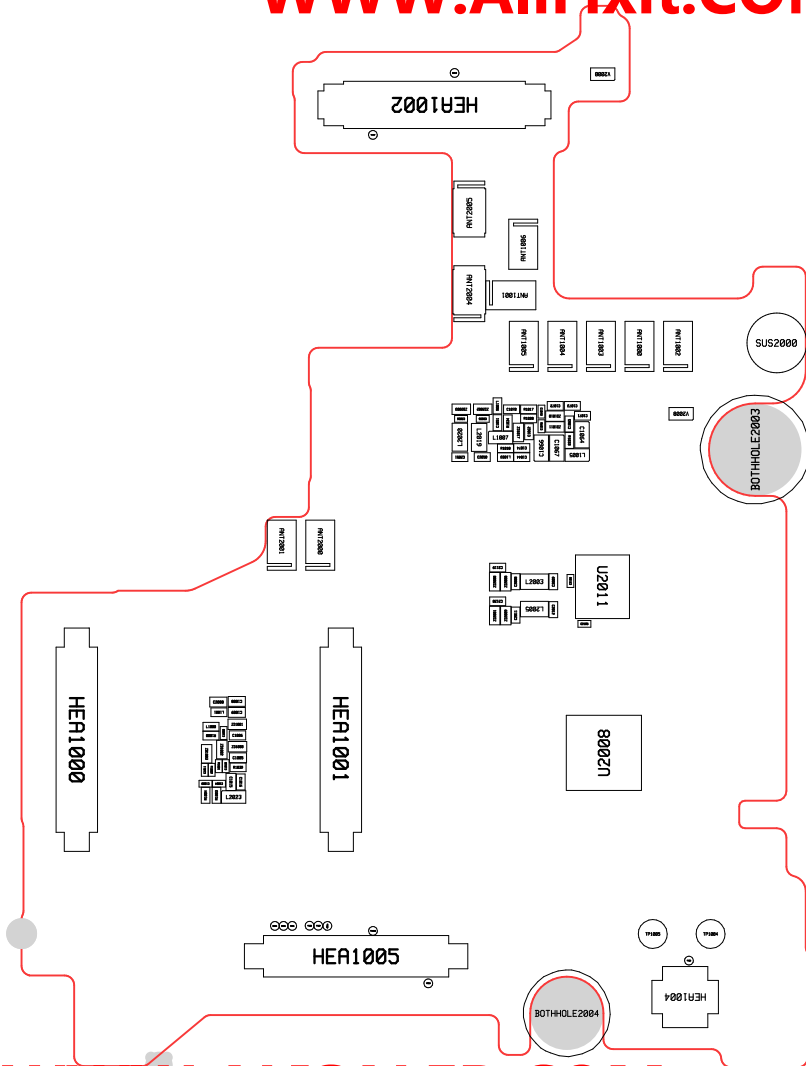
Place (SUB) Winner Only

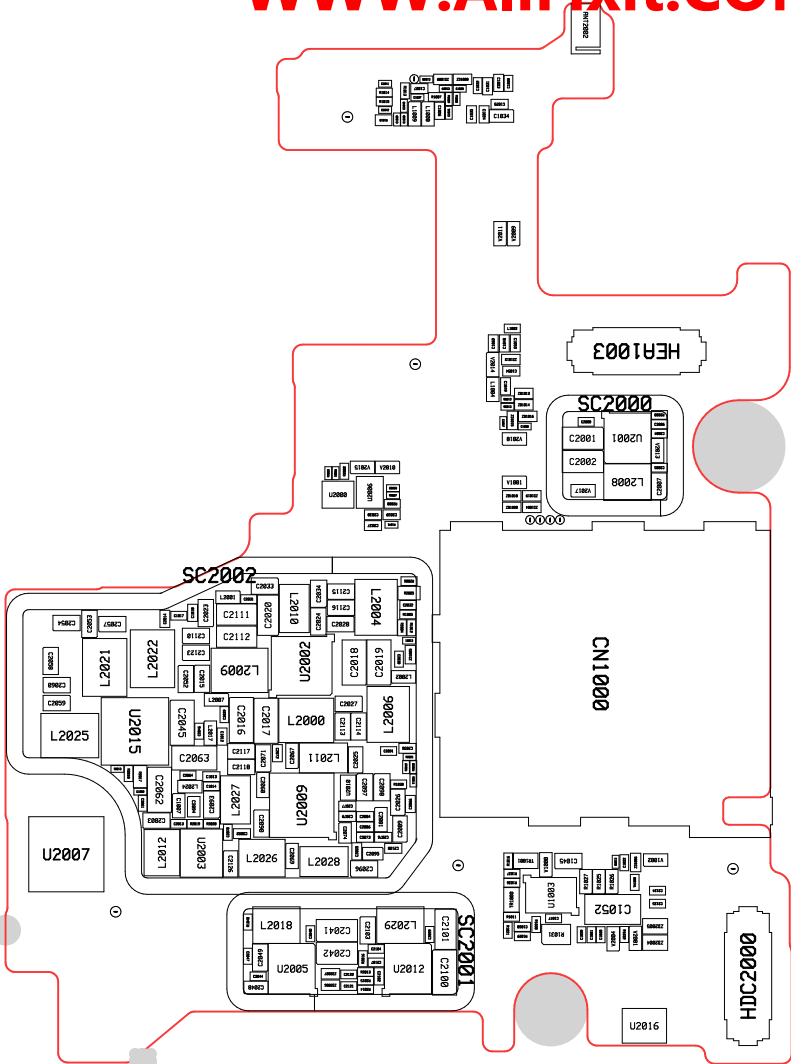






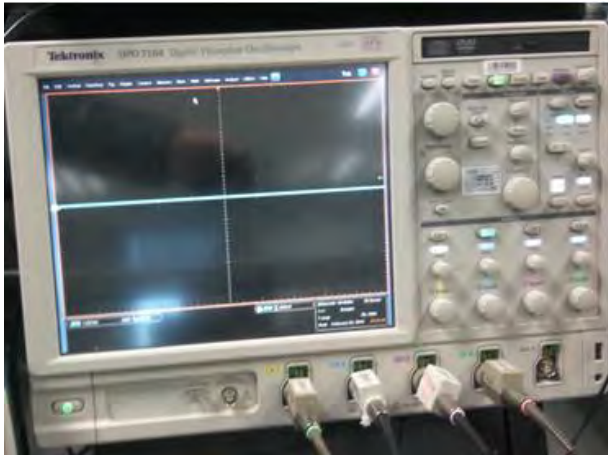






## 8. Level 3 Repair

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



Oscilloscope



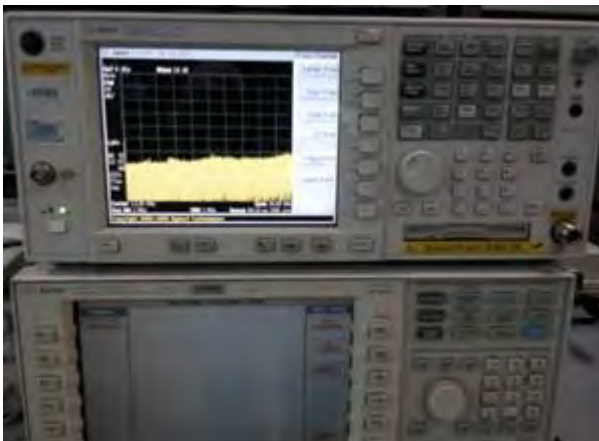
Digital Multimeter



Power Supply



+ driver, ESD Safe Tweezer



8960 & Spectrum Analyzer



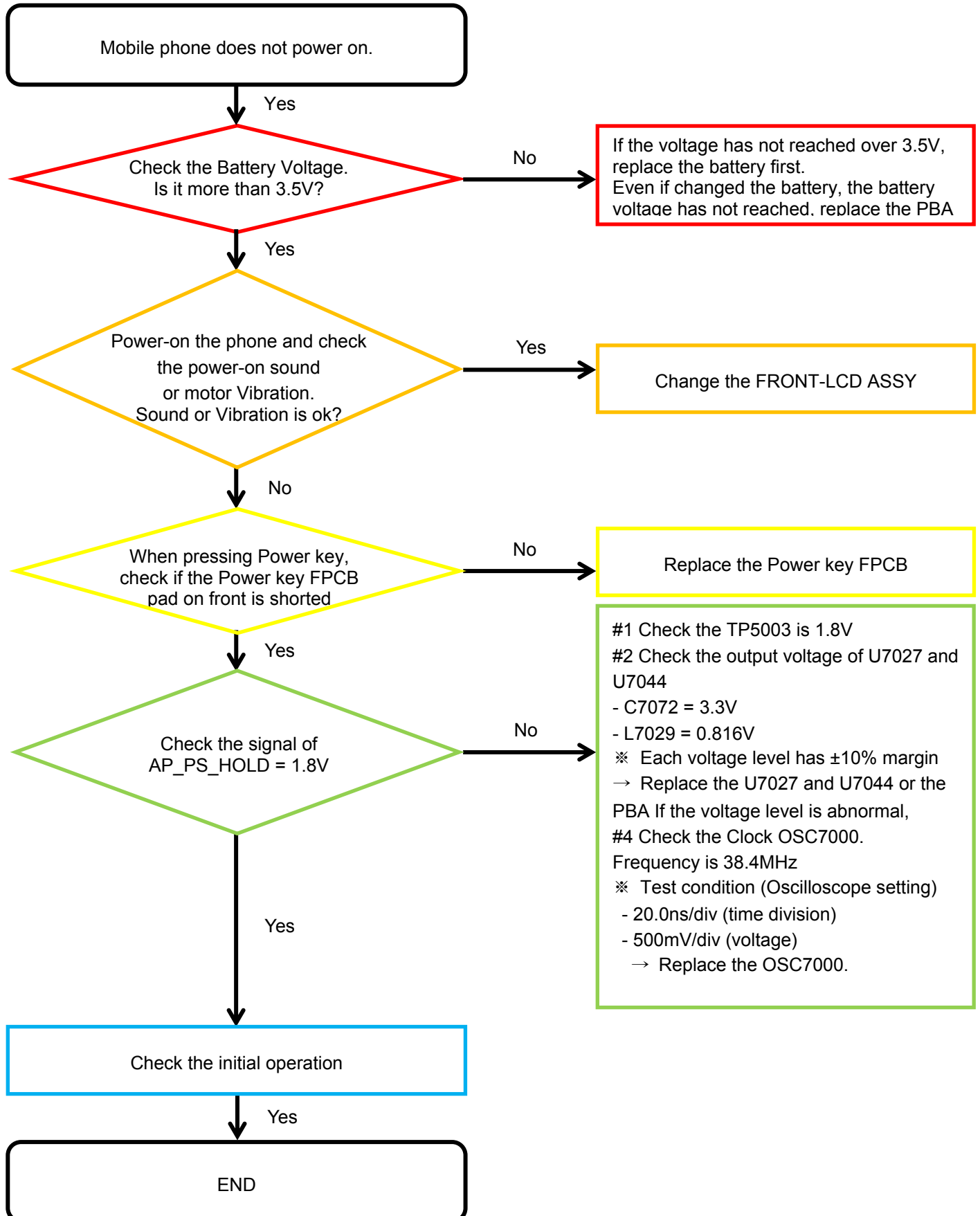
Soldering iron

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## 8. Level 3 Repair

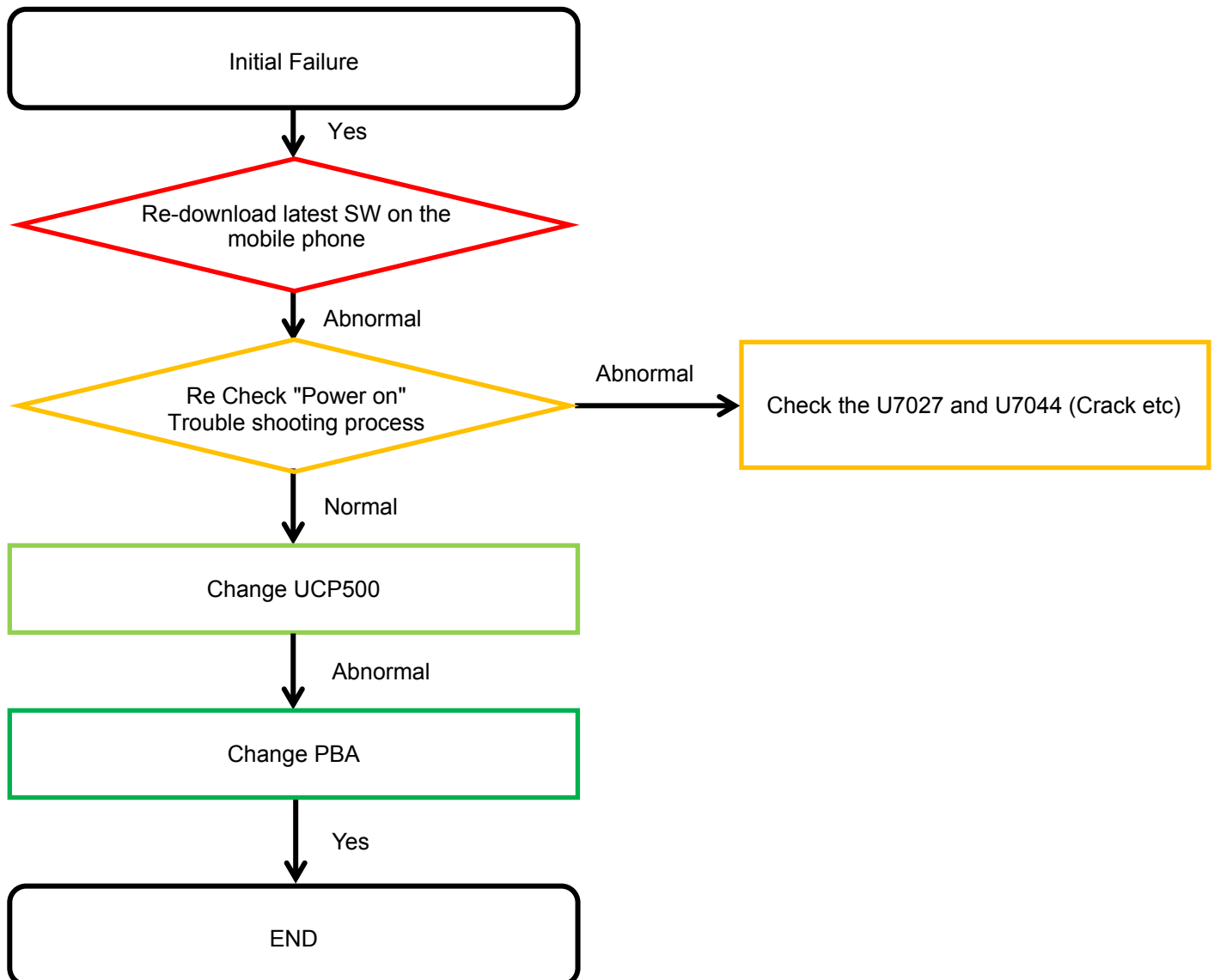
### 8-4-1. Power On





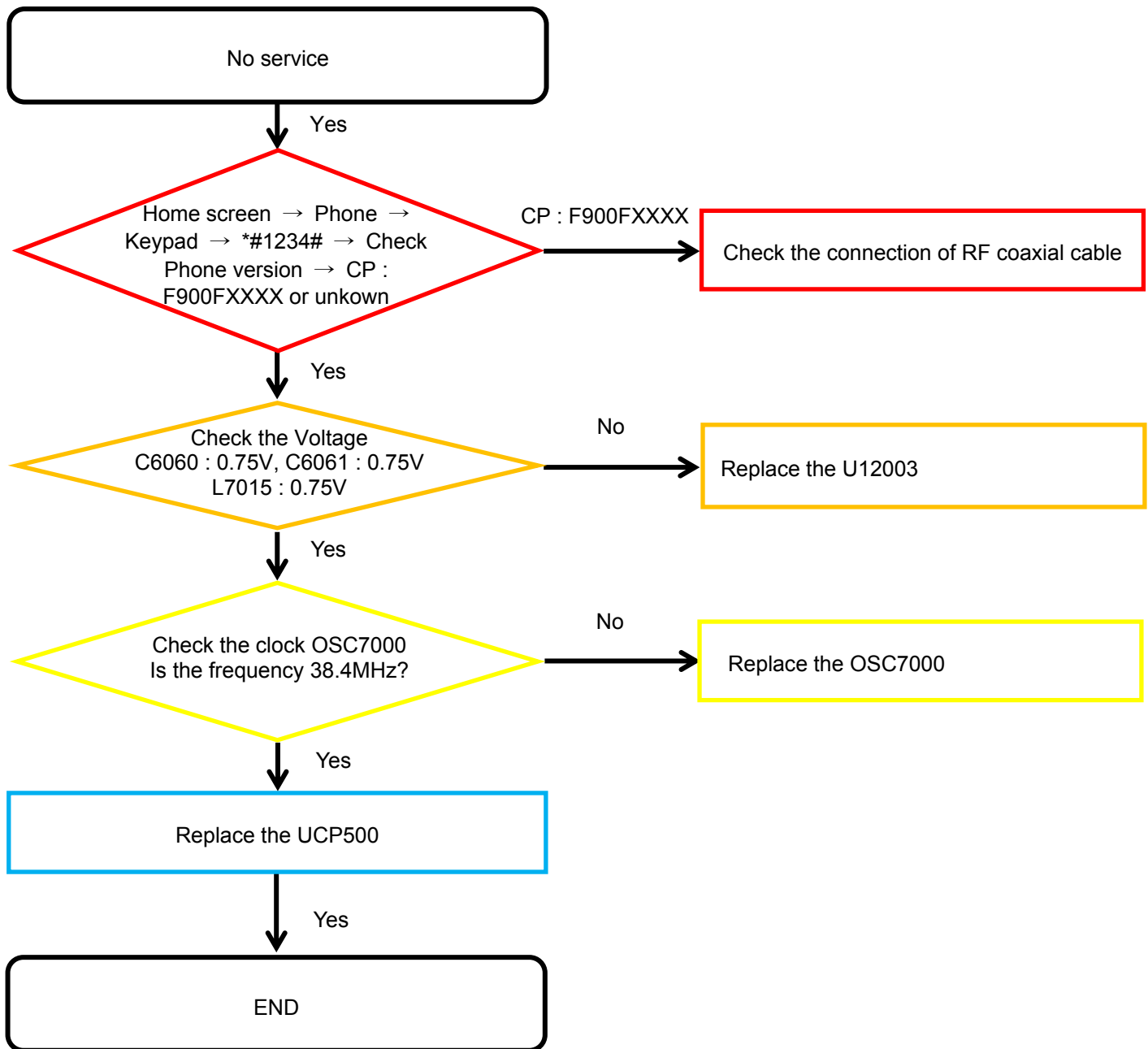
## 8. Level 3 Repair

### 8-4-2. Initial



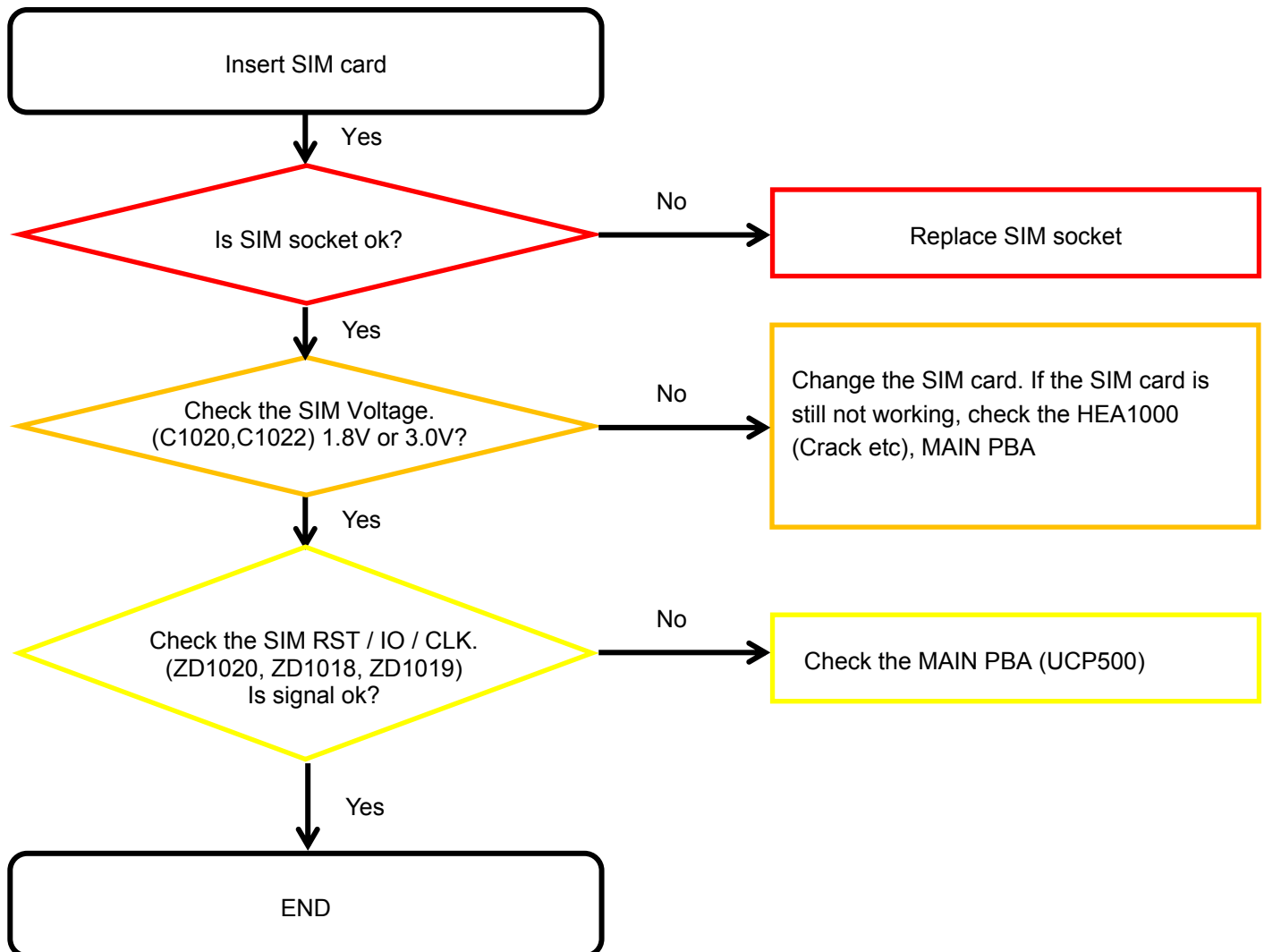
## 8. Level 3 Repair

### 8-4-3. No Service



## 8. Level 3 Repair

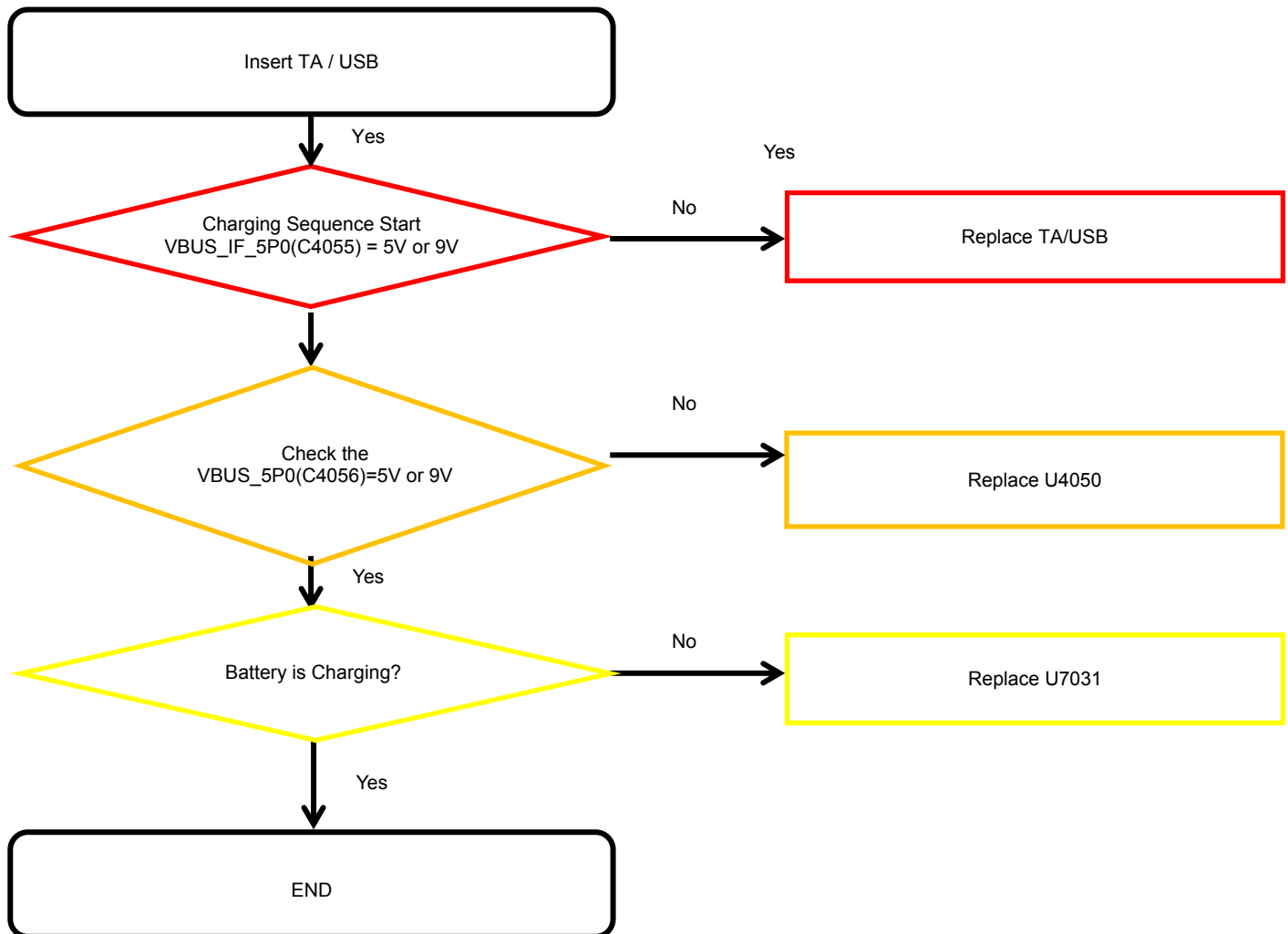
### 8-4-4. SIM Part





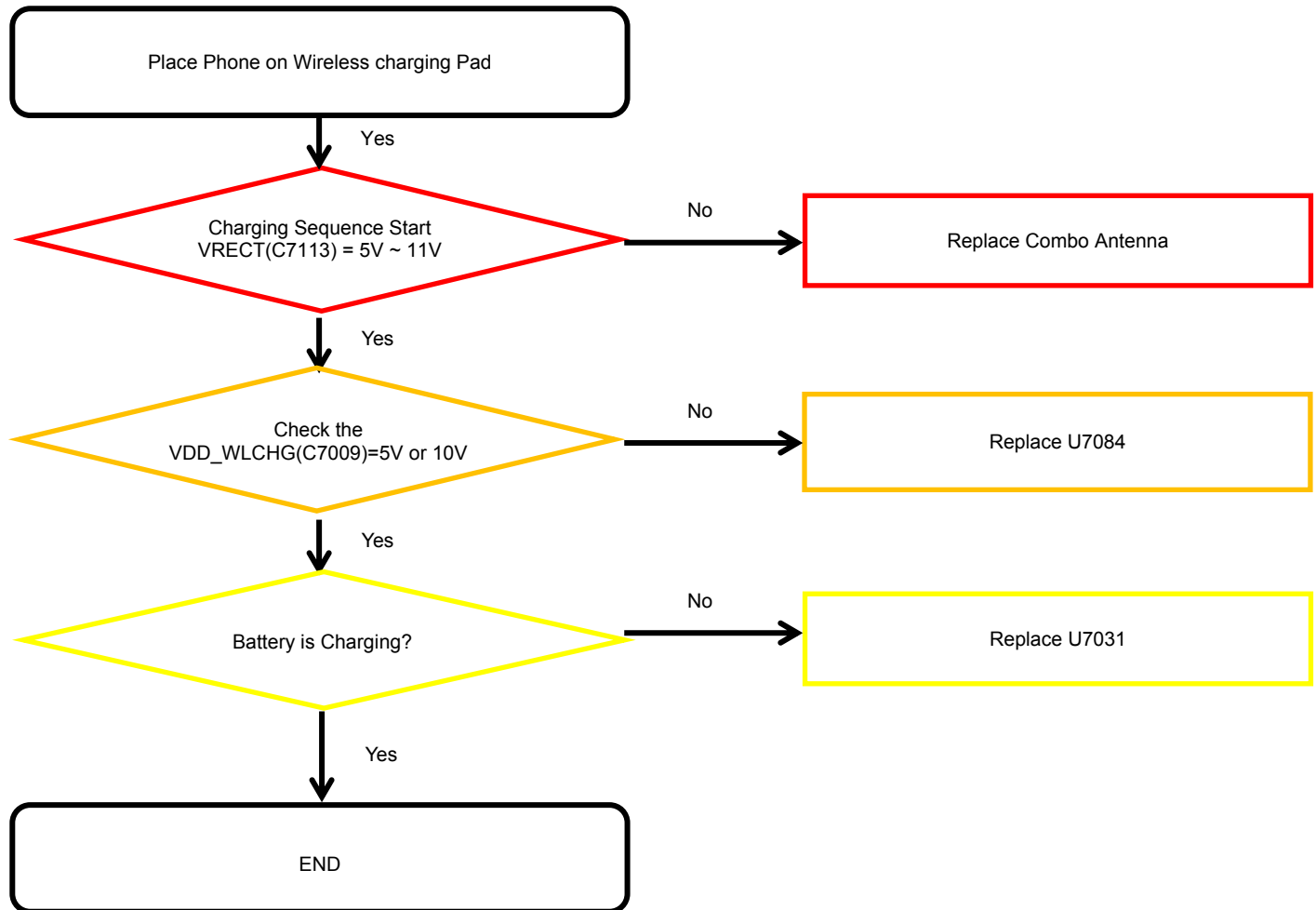
## 8. Level 3 Repair

### 8-4-5-1. Cable Charging Part (Normal/Fast)



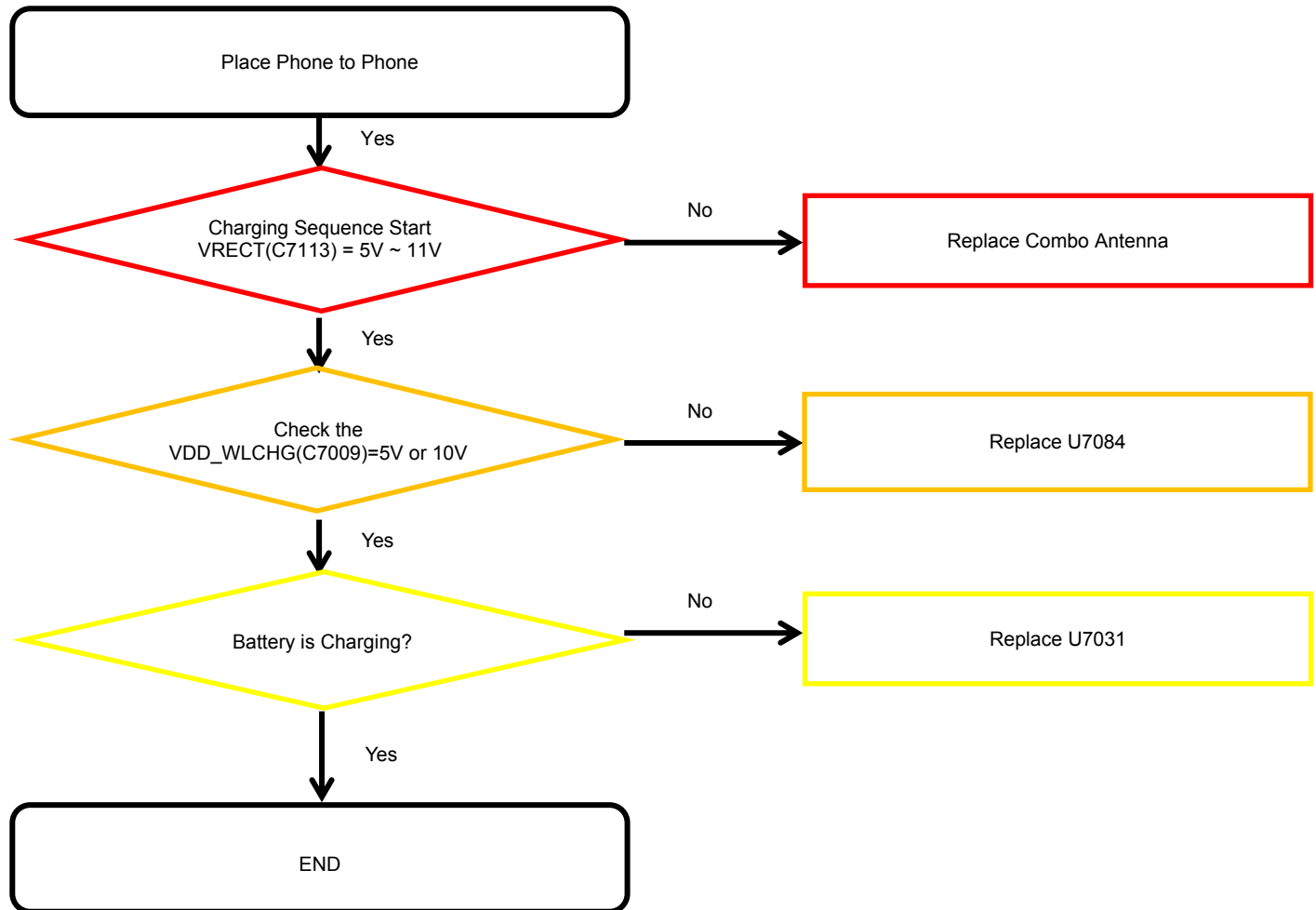
## 8. Level 3 Repair

### 8-4-5-2. Wireless Charging Part (Normal/Fast)



## 8. Level 3 Repair

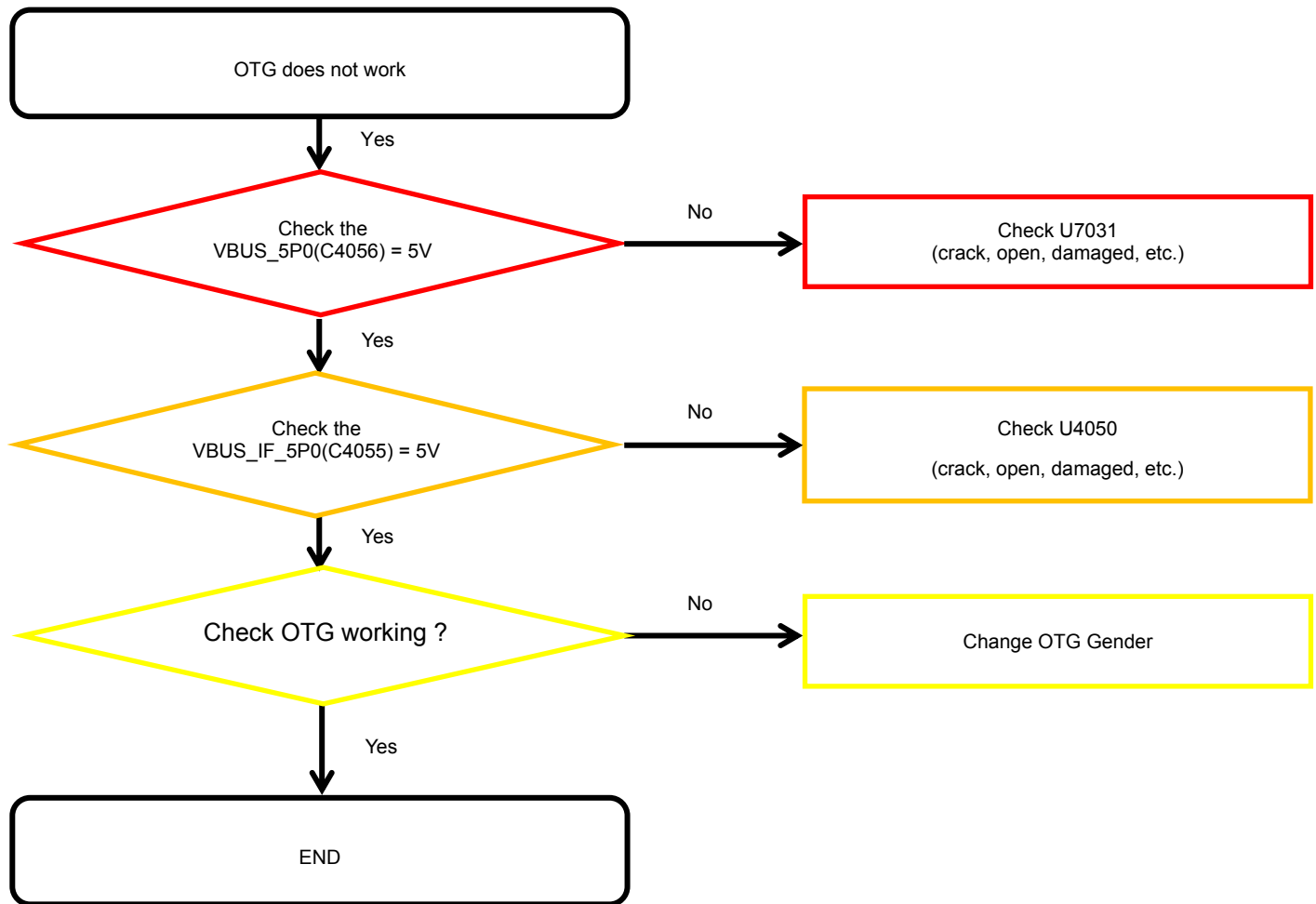
### 8-4-5-3. Wireless Power Sharing





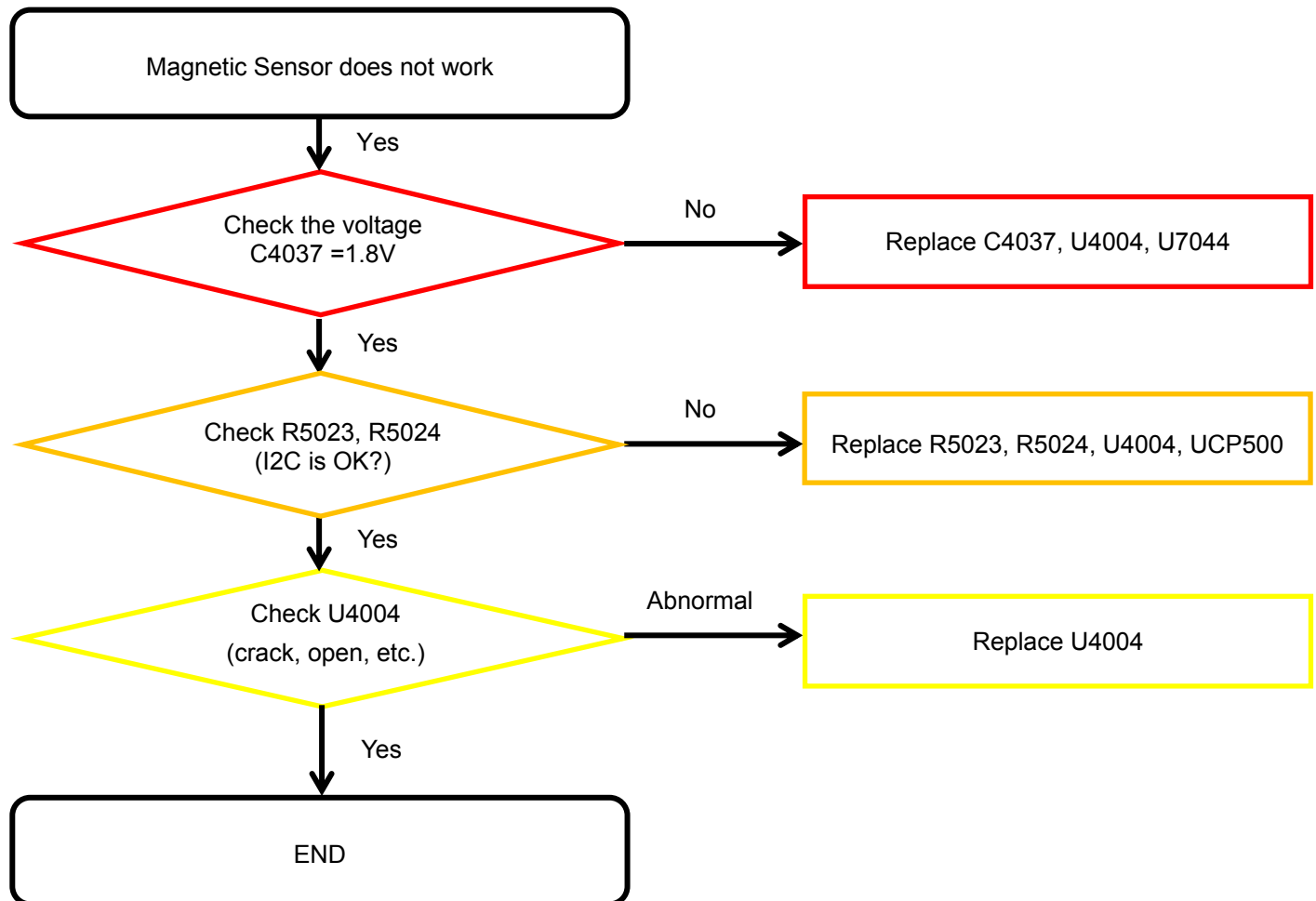
## 8. Level 3 Repair

### 8-4-6. OTG



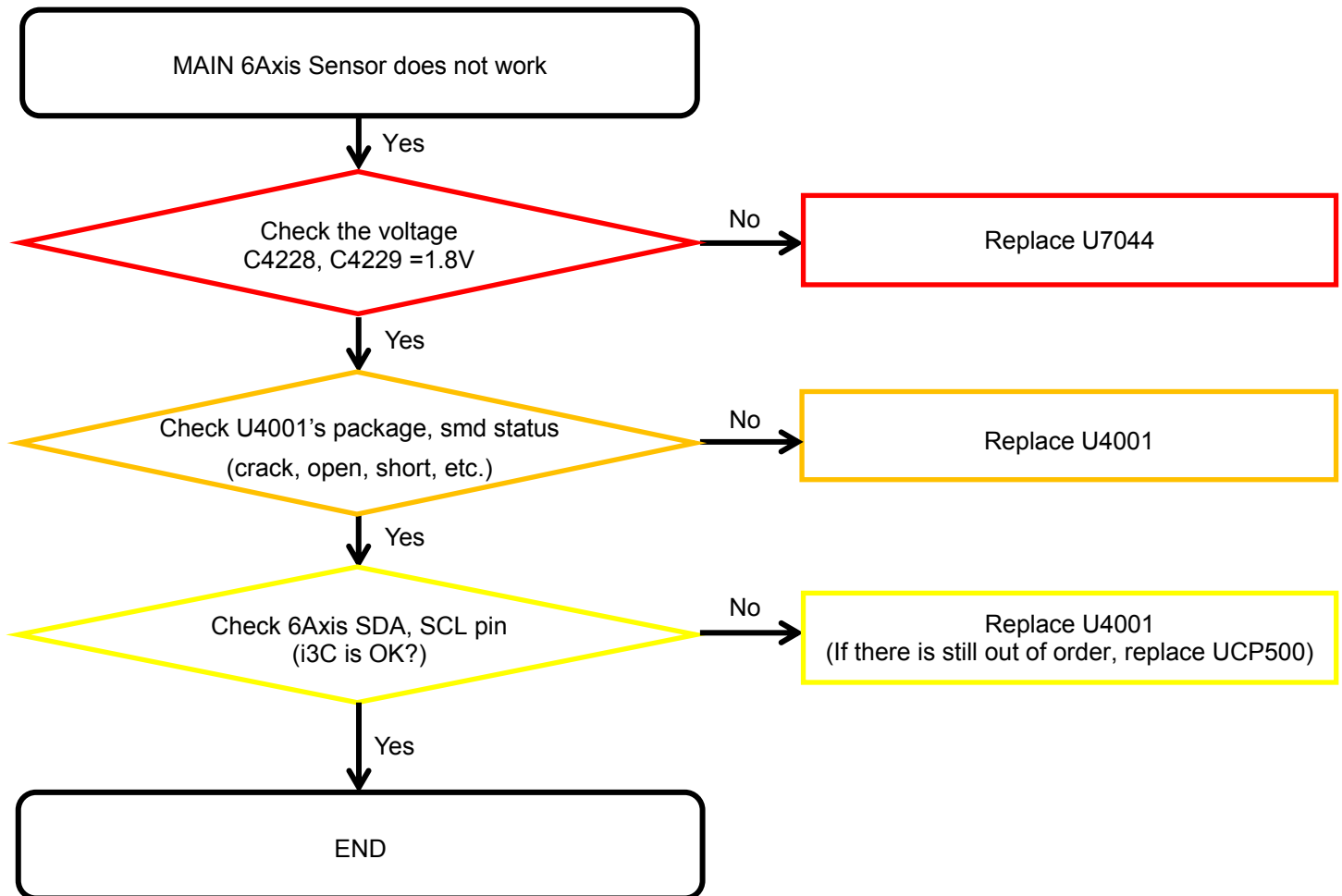
## 8. Level 3 Repair

### 8-4-7-1. Magnetic Sensor



## 8. Level 3 Repair

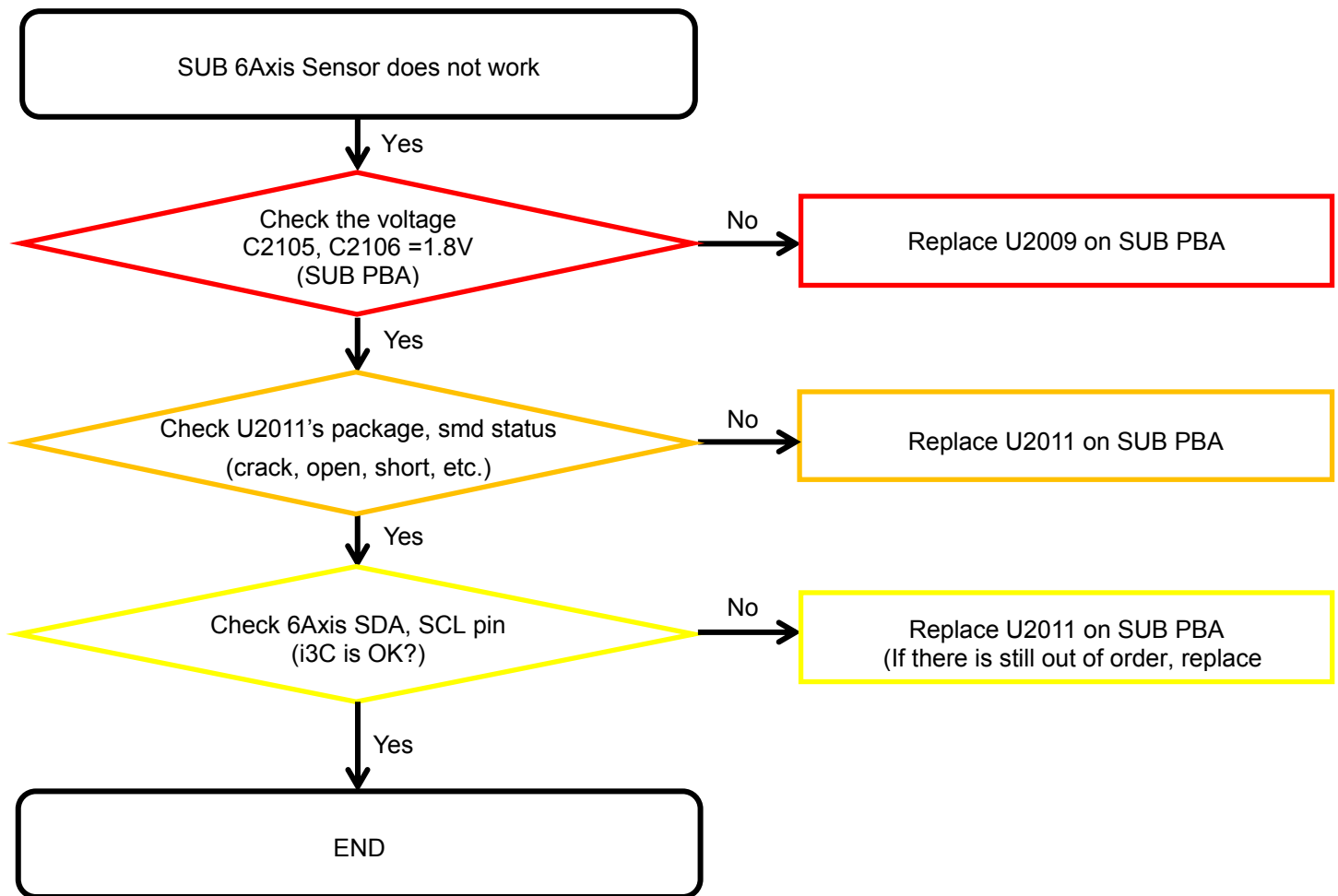
### 8-4-7-2. 6Axis Sensor (MAIN)





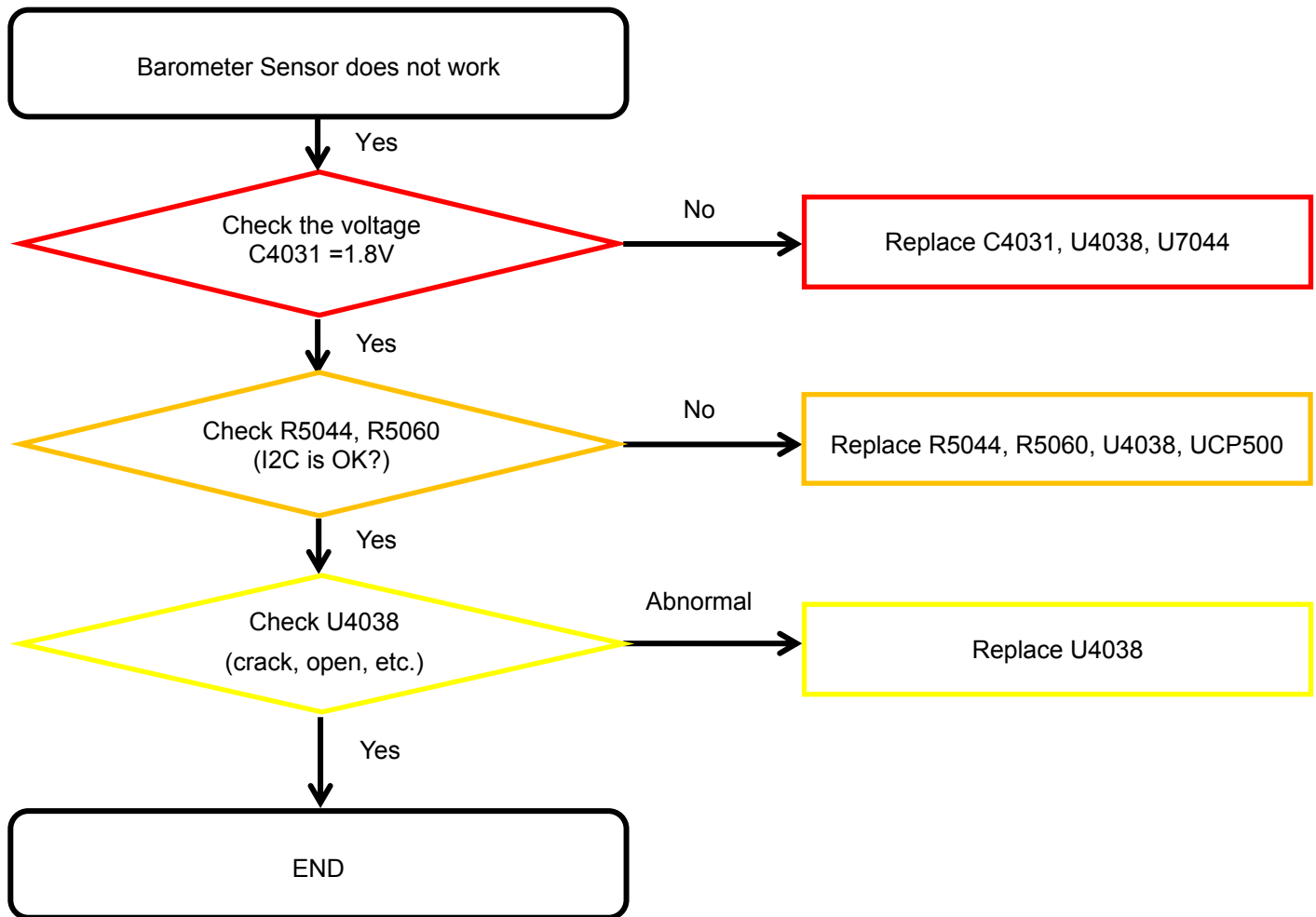
## 8. Level 3 Repair

### 8-4-7-3. 6Axis Sensor (SUB)



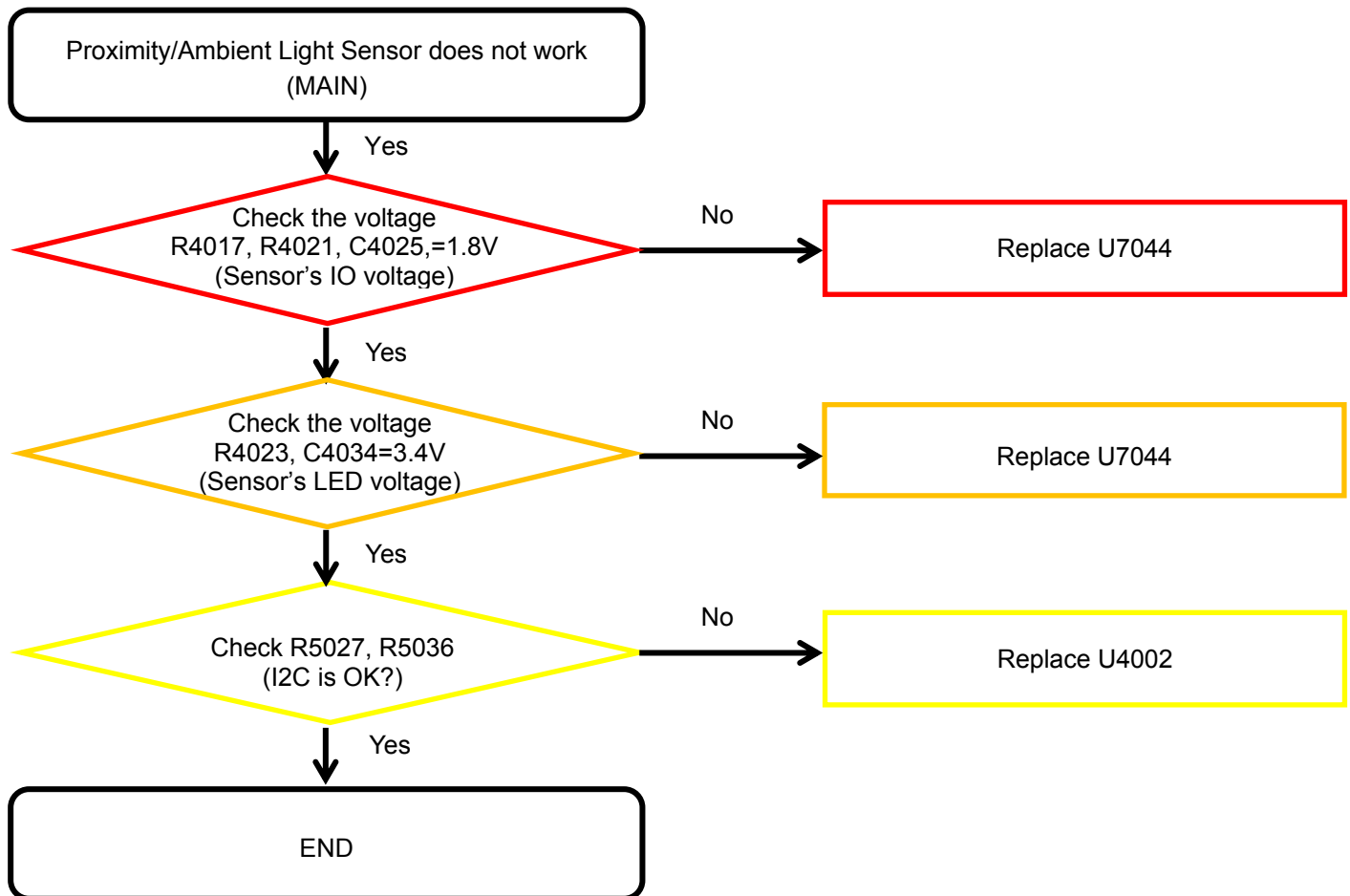
## 8. Level 3 Repair

### 8-4-7-4. Barometer sensor



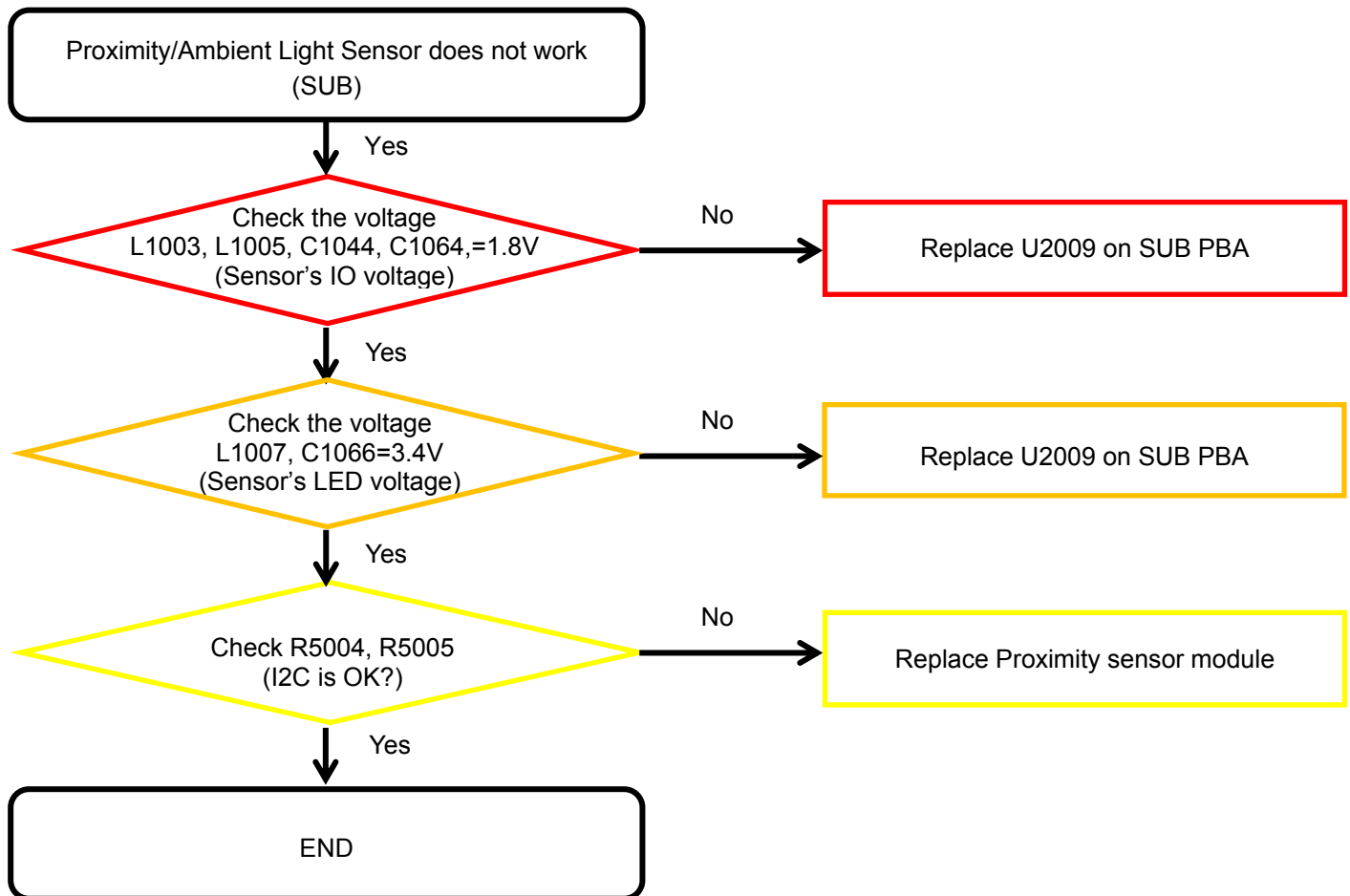
## 8. Level 3 Repair

### 8-4-7-5. Proximity/Ambient Light sensor (MAIN)



## 8. Level 3 Repair

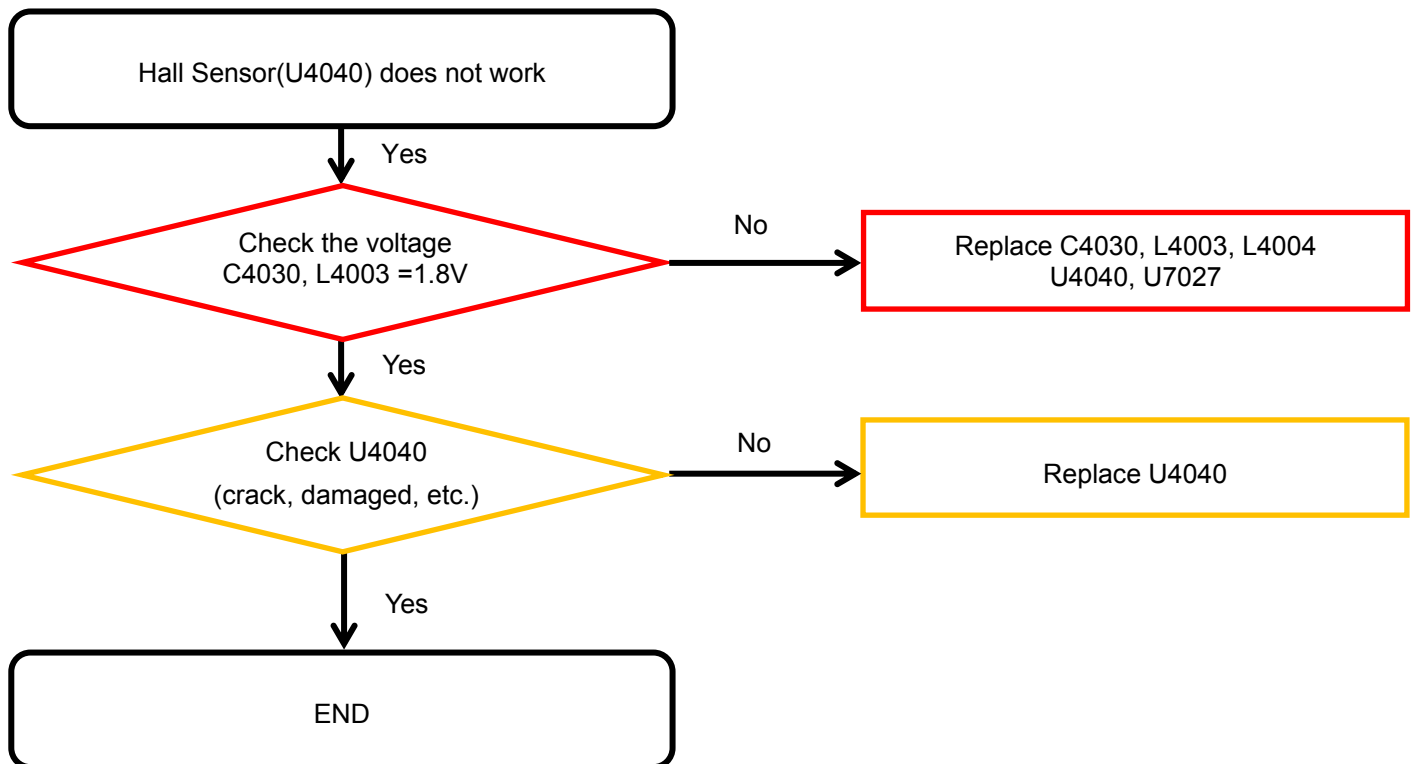
### 8-4-7-6. Proximity/Ambient Light sensor (SUB)





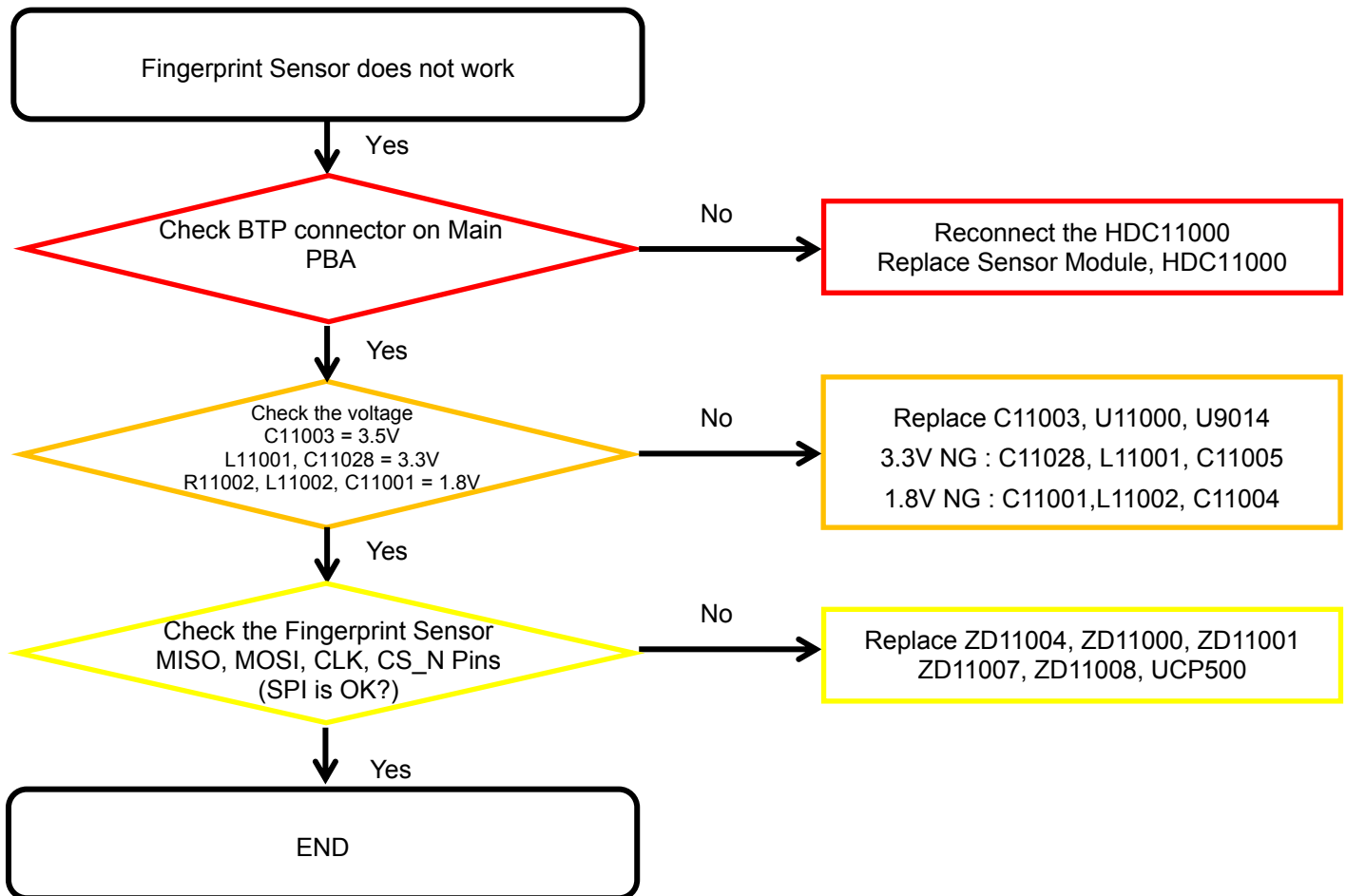
## 8. Level 3 Repair

### 8-4-7-7. Hall Sensor



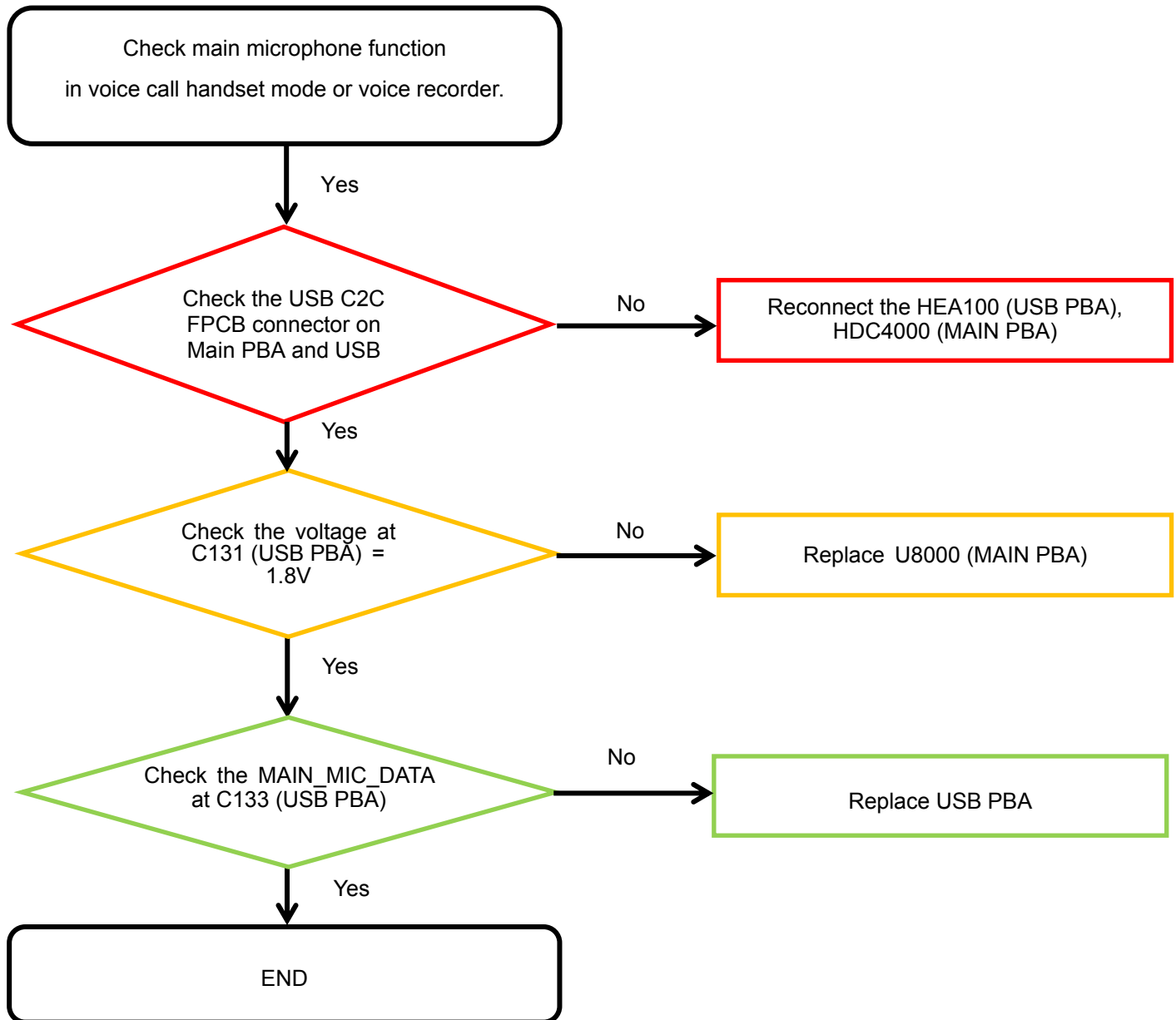
## 8. Level 3 Repair

### 8-4-7-8. Fingerprint Sensor



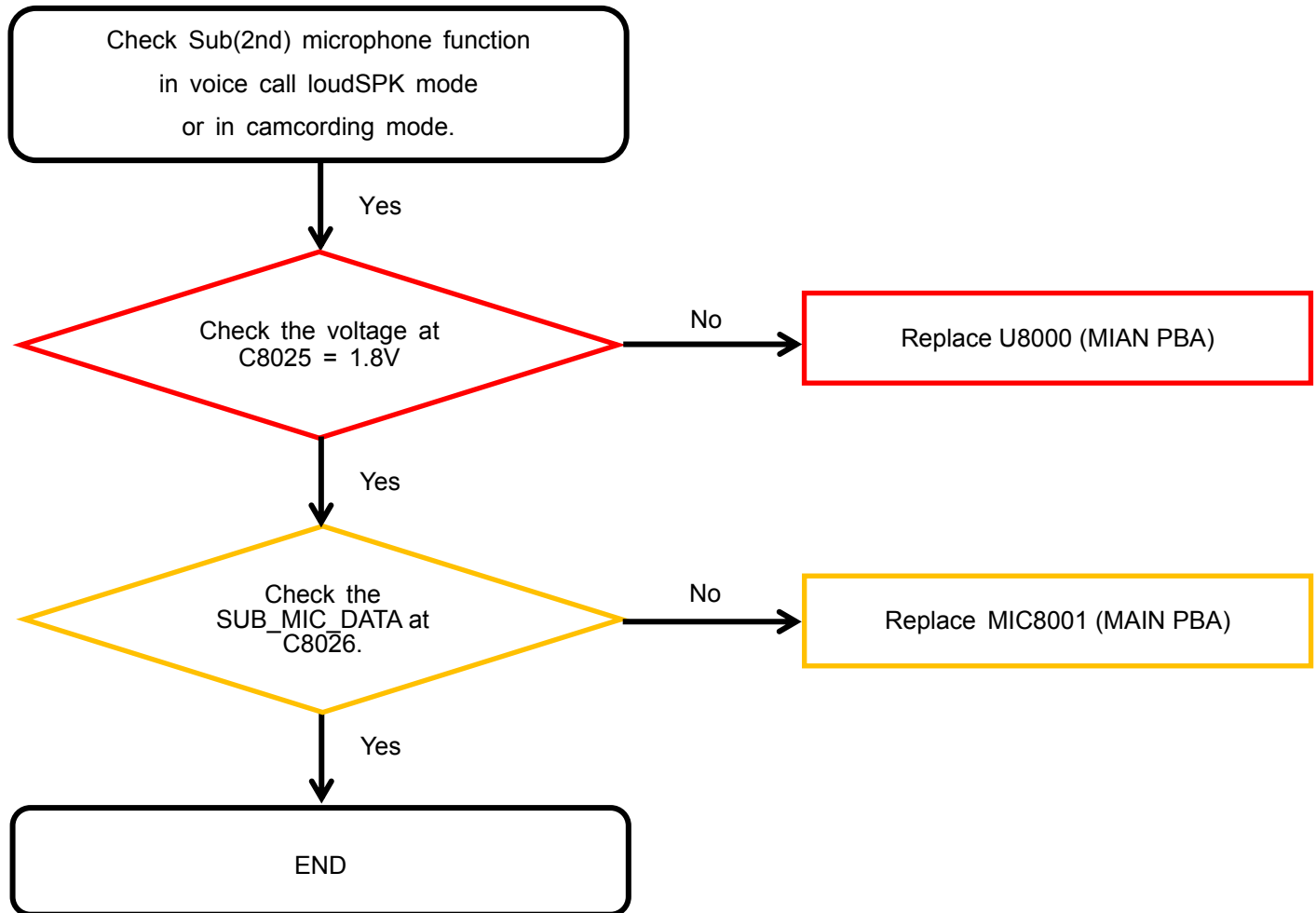
## 8. Level 3 Repair

### 8-4-8-1. Microphone Part – MAIN MIC



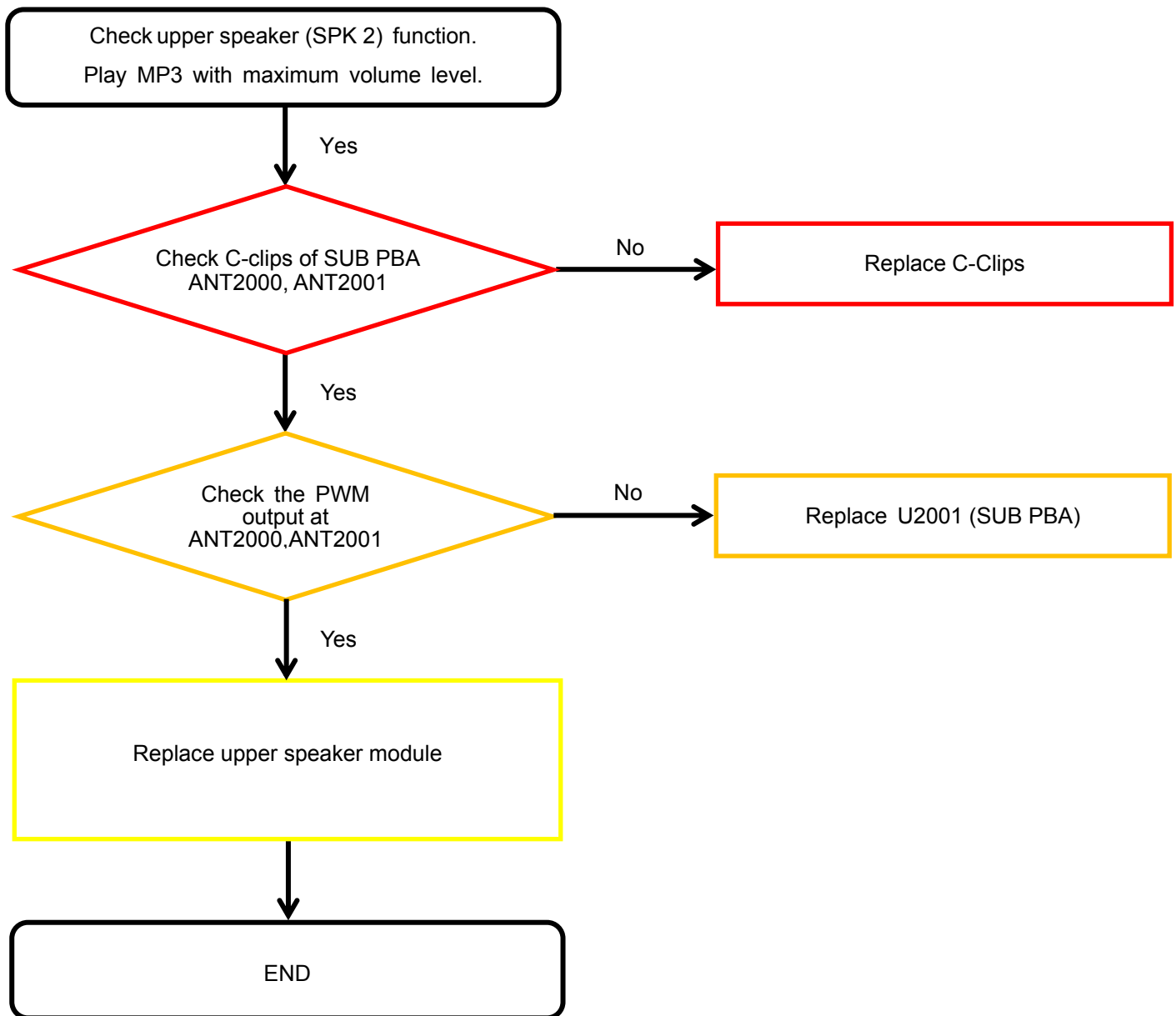
## 8. Level 3 Repair

### 8-4-8-2. Microphone Part – 2<sup>nd</sup> MIC



## 8. Level 3 Repair

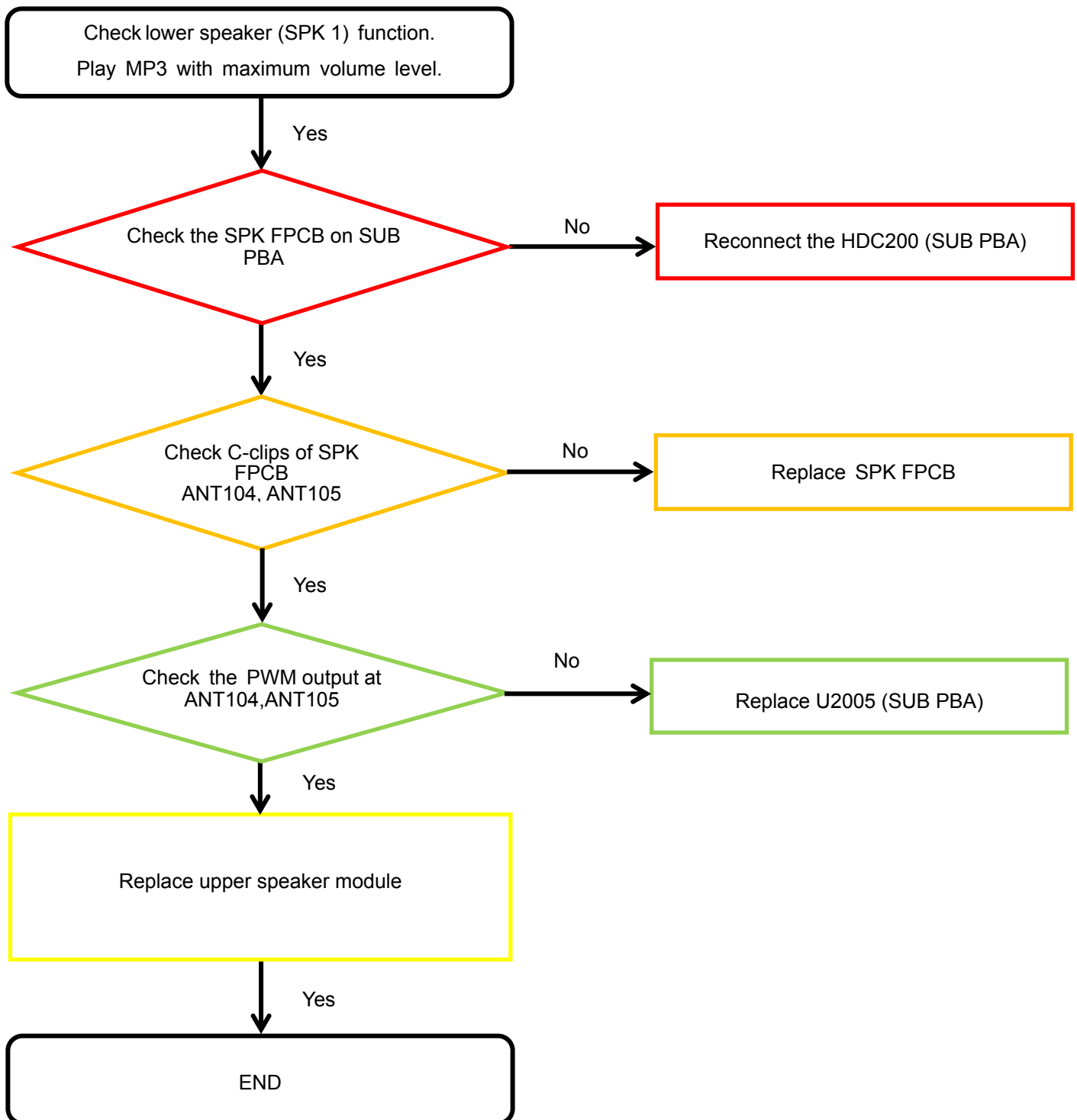
### 8-4-9-1. Speaker Part – UPPER SPK





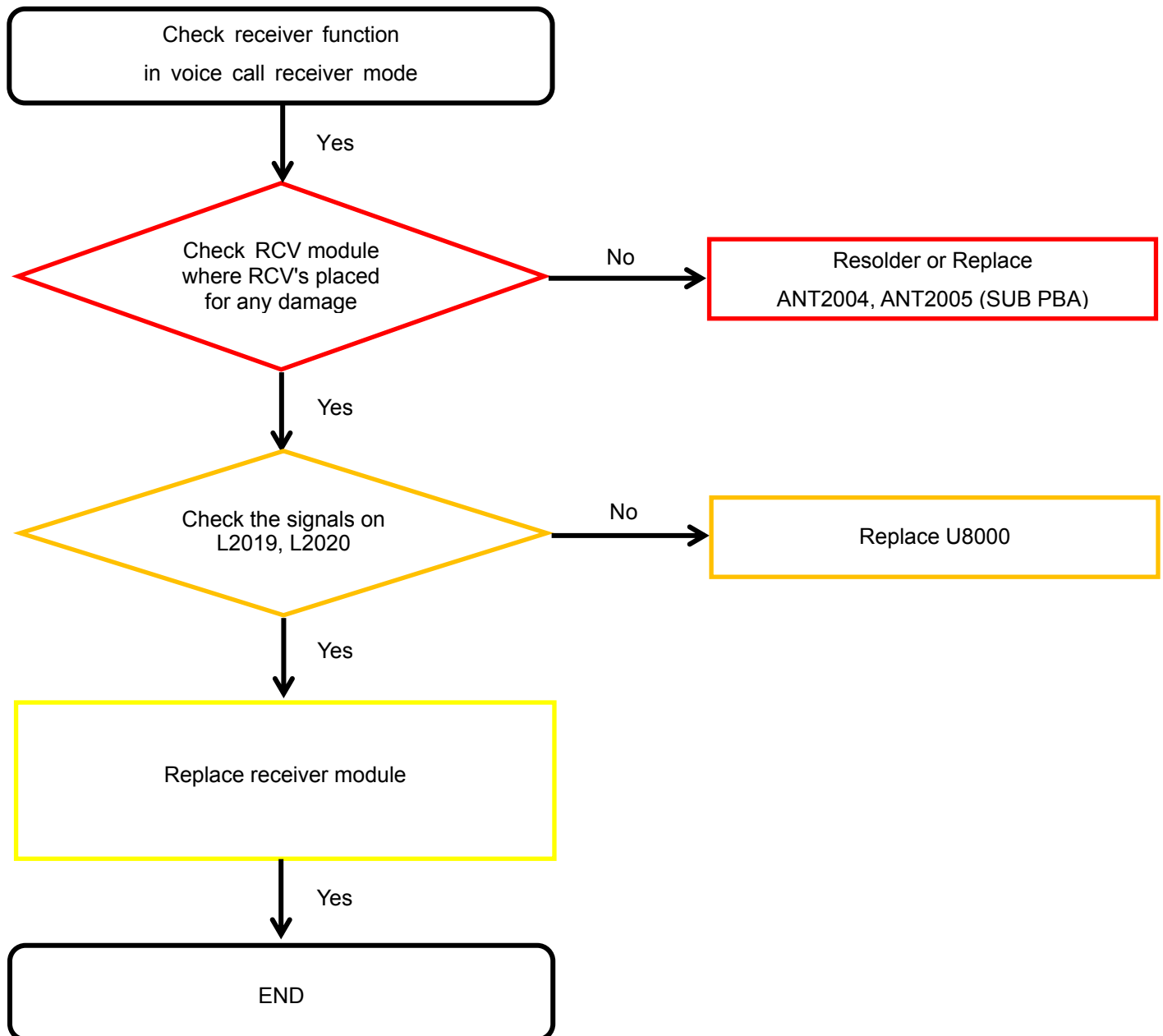
## 8. Level 3 Repair

### 8-4-9-2. Speaker Part – LOWER SPK



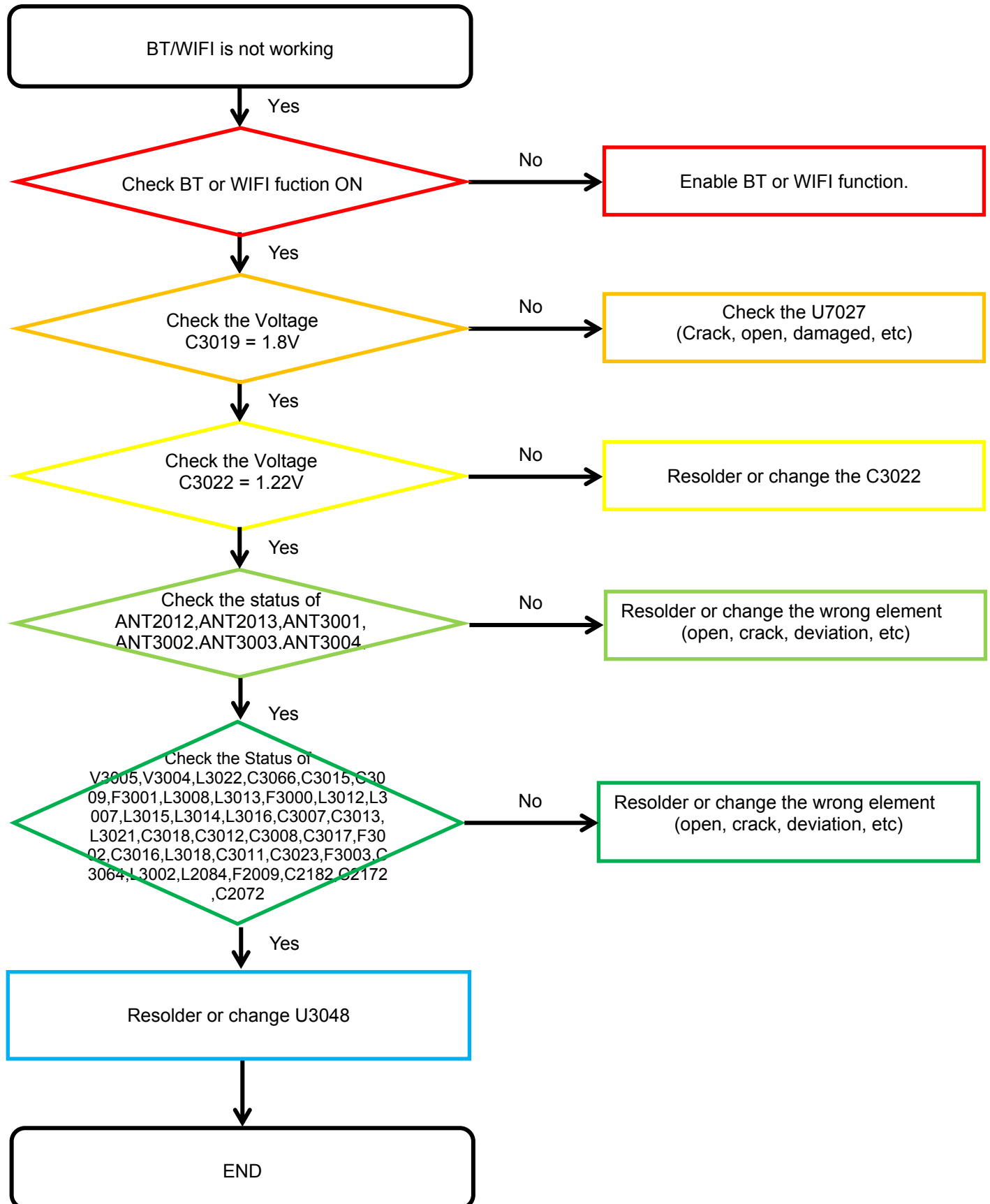
## 8. Level 3 Repair

### 8-4-10. Receiver Part



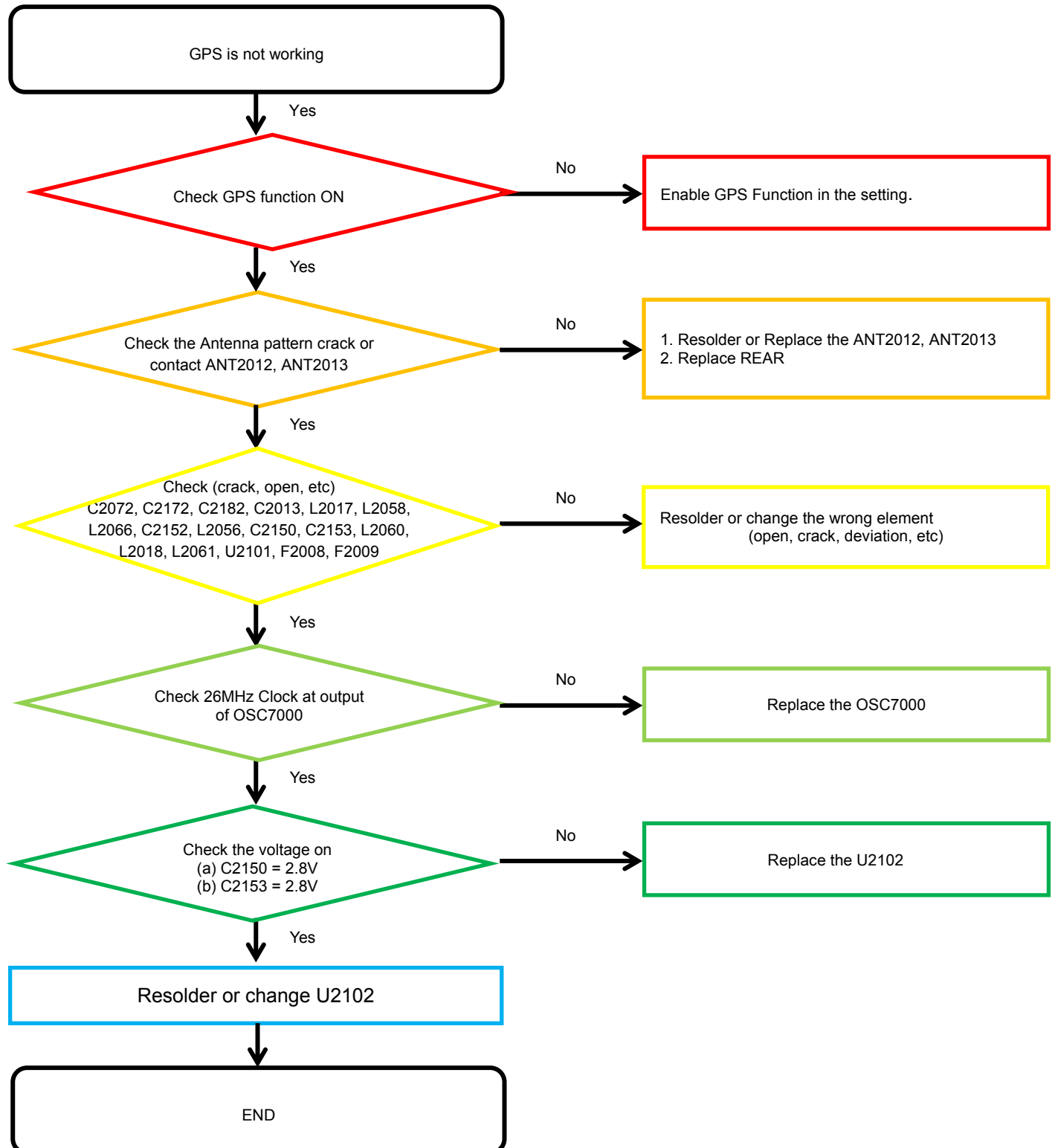
## 8. Level 3 Repair

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



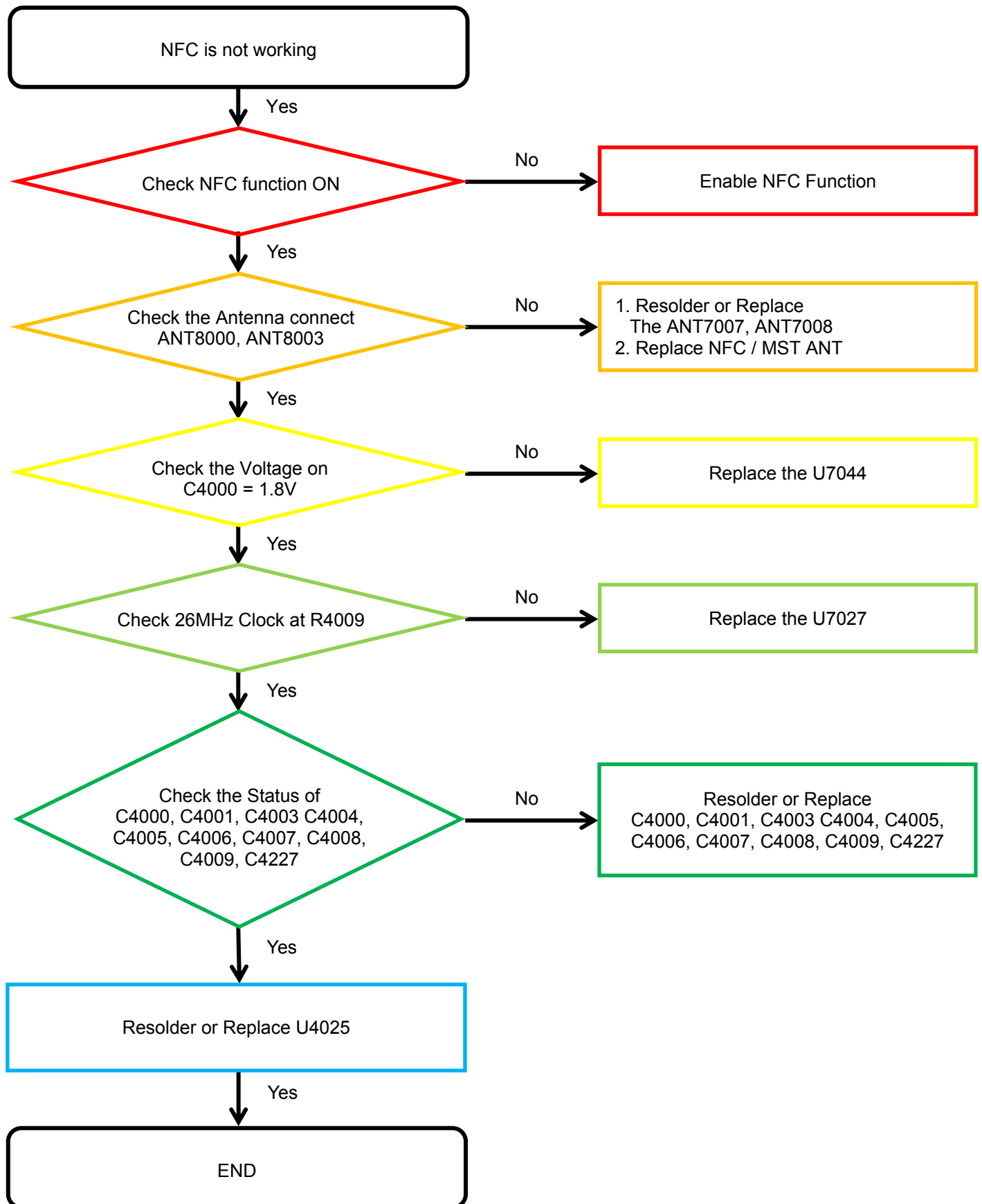
## 8. Level 3 Repair

### 8-4-12. GPS



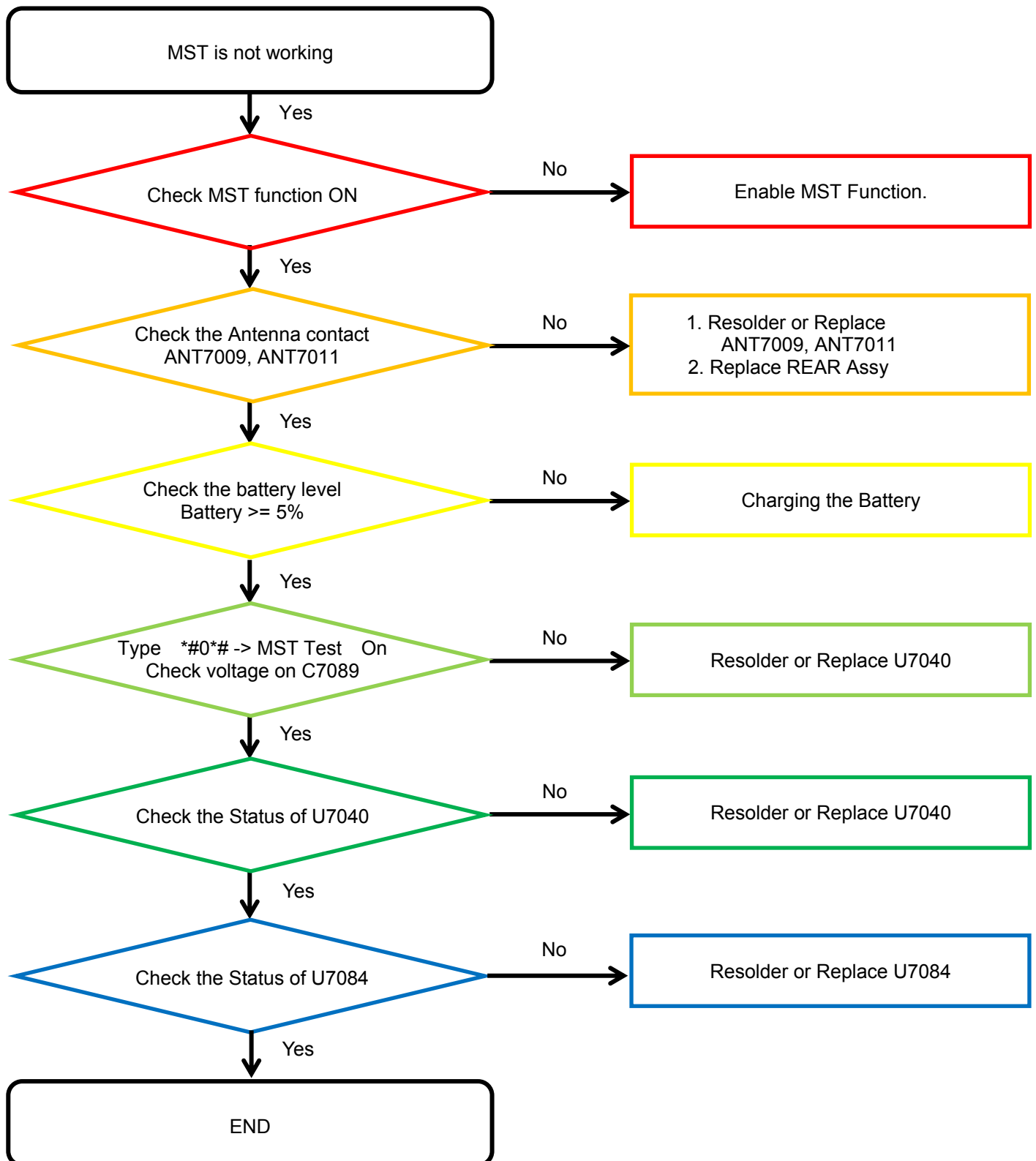
## 8. Level 3 Repair

### 8-4-13. NFC



## 8. Level 3 Repair

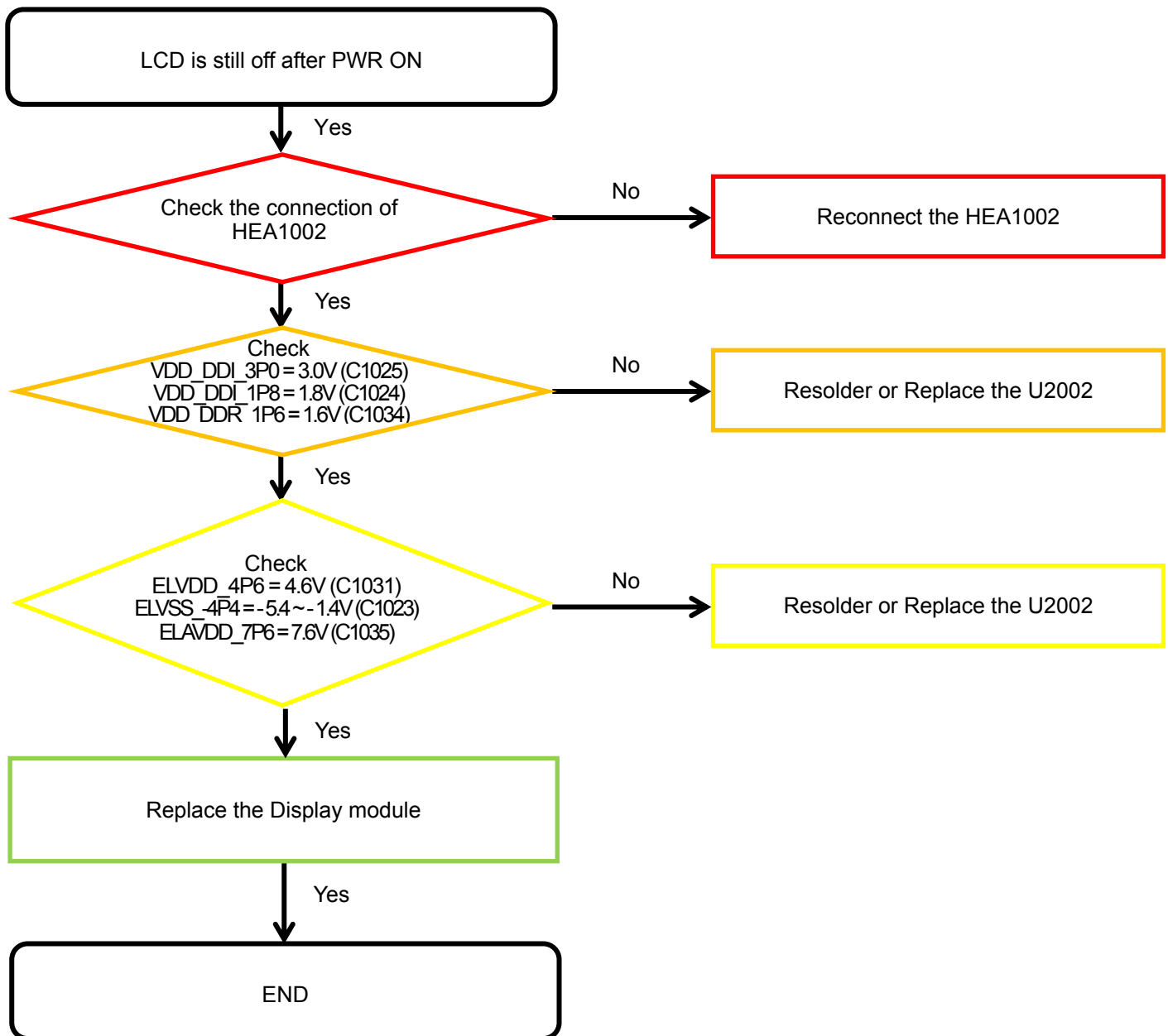
### 8-4-14. MST





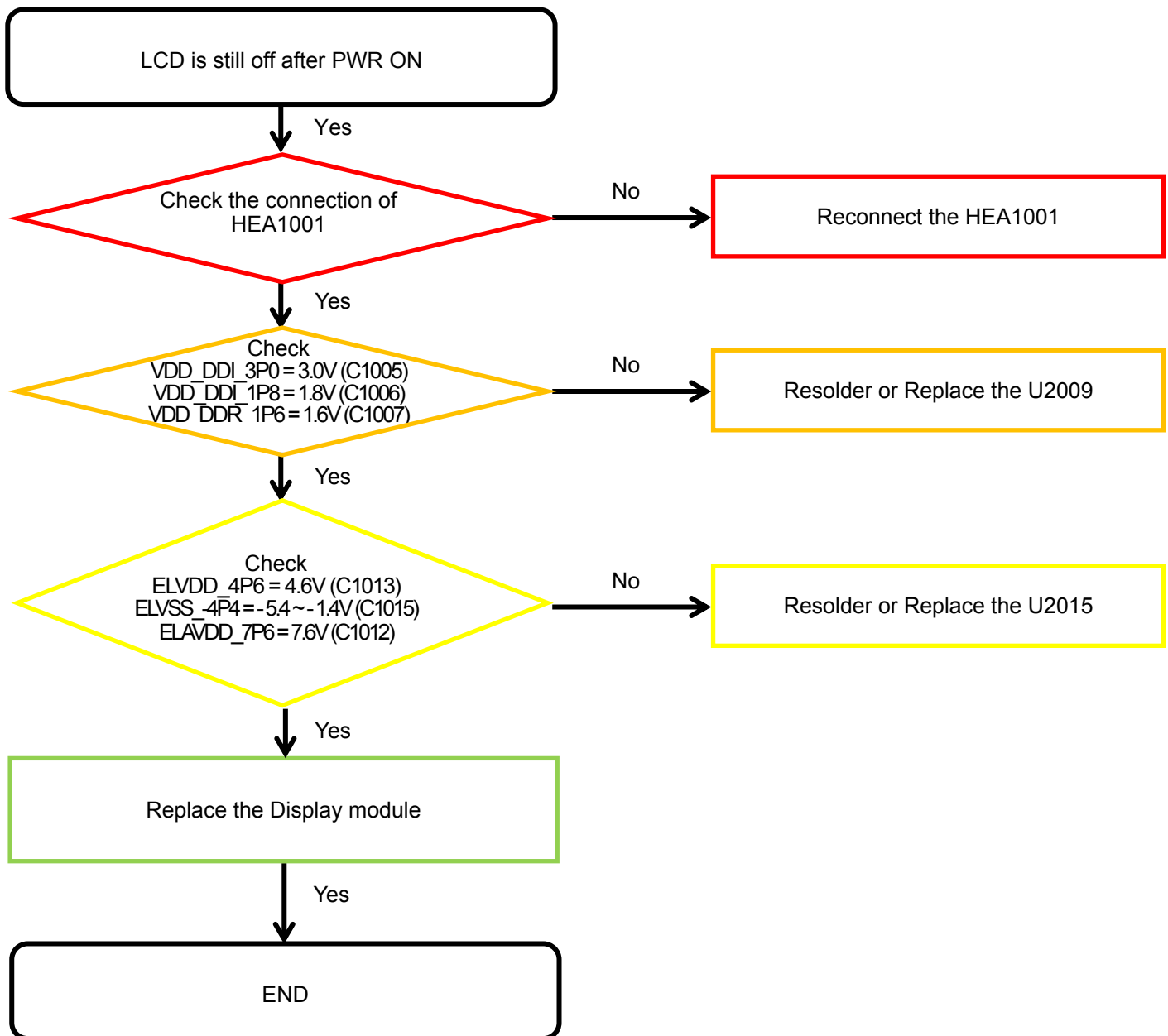
## 8. Level 3 Repair

### 8-4-15-1. Main Display



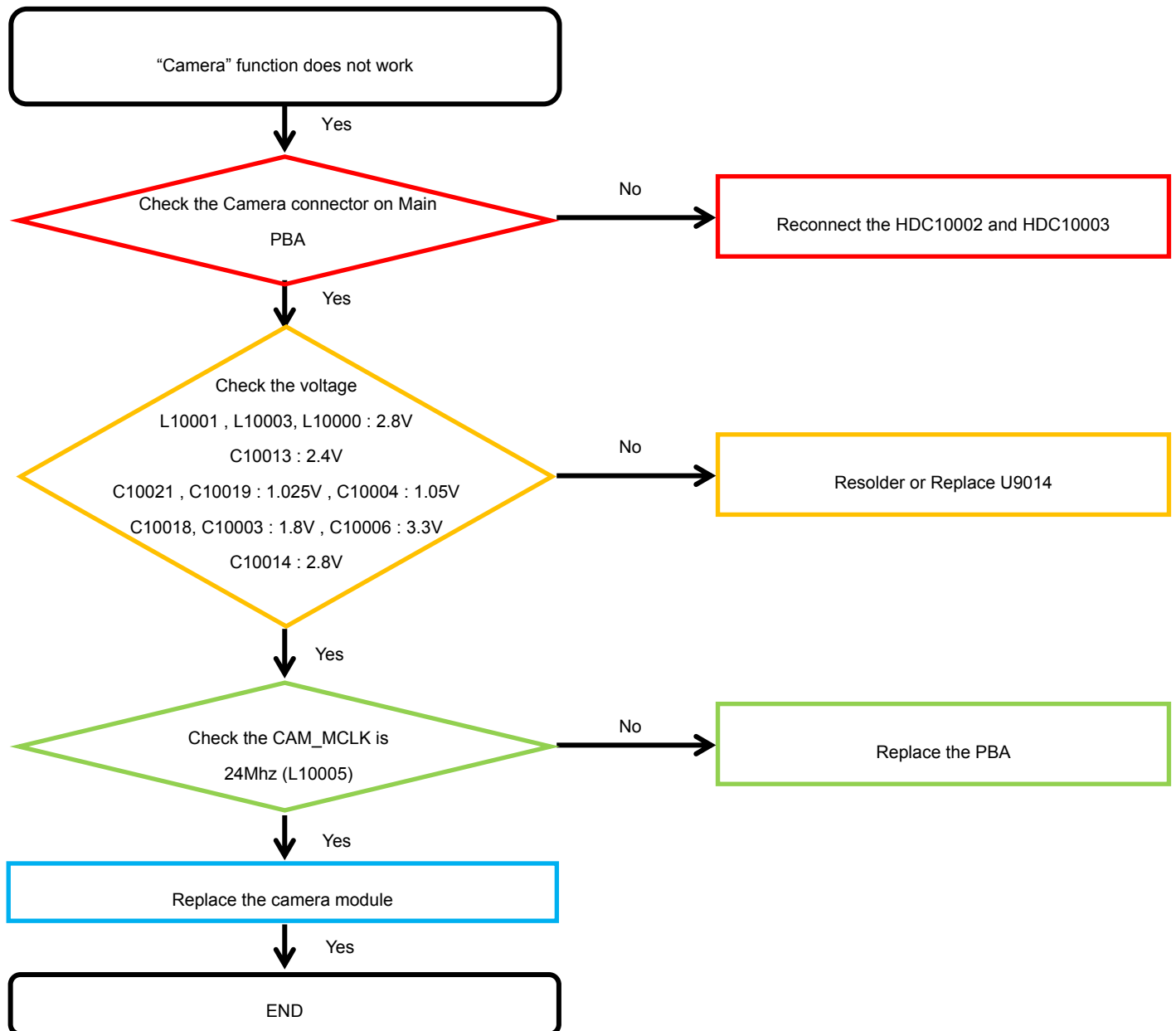
## 8. Level 3 Repair

### 8-4-15-2. Sub Display



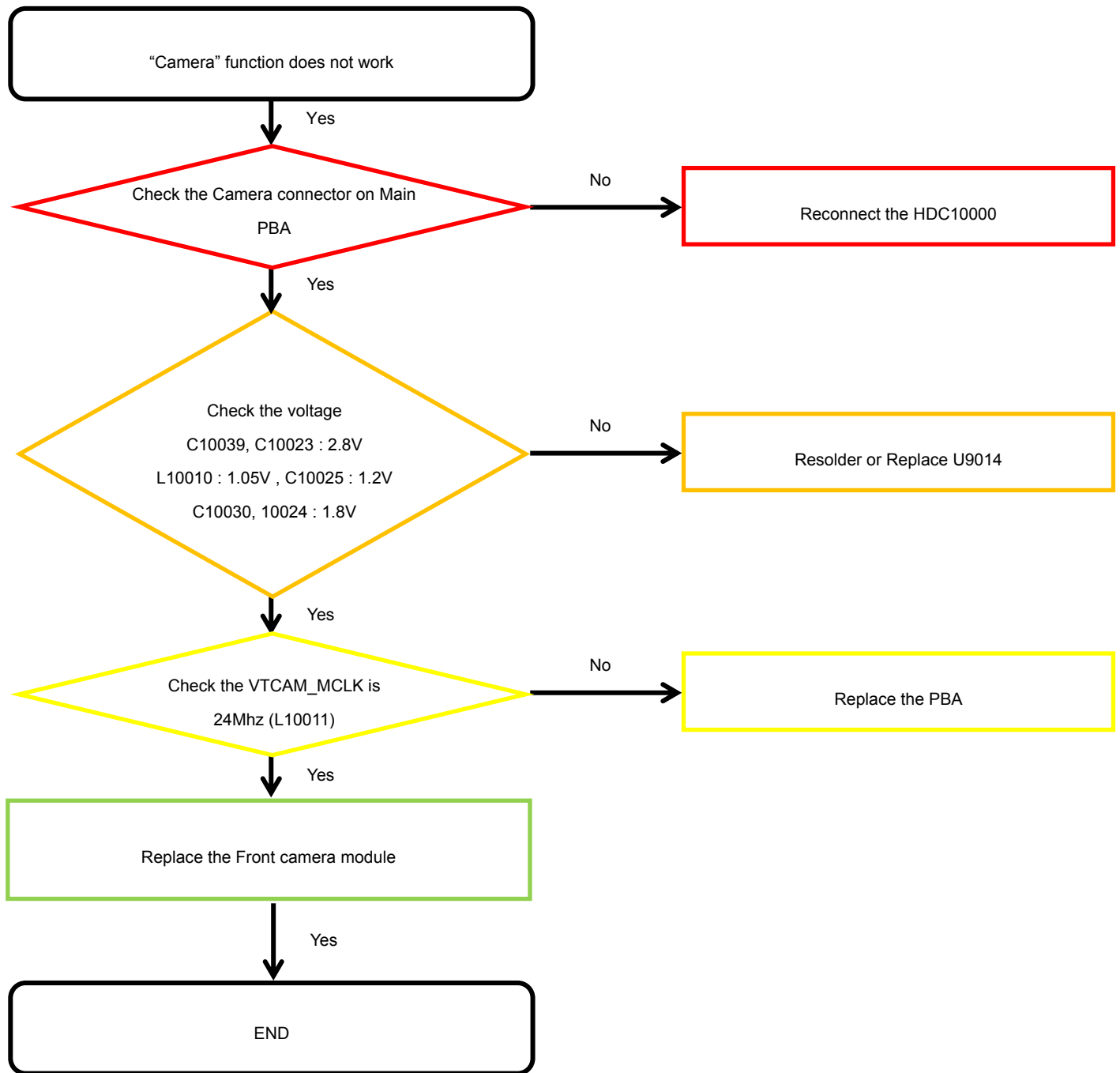
## 8. Level 3 Repair

### 8-4-16. 12M CAMERA (Triple)



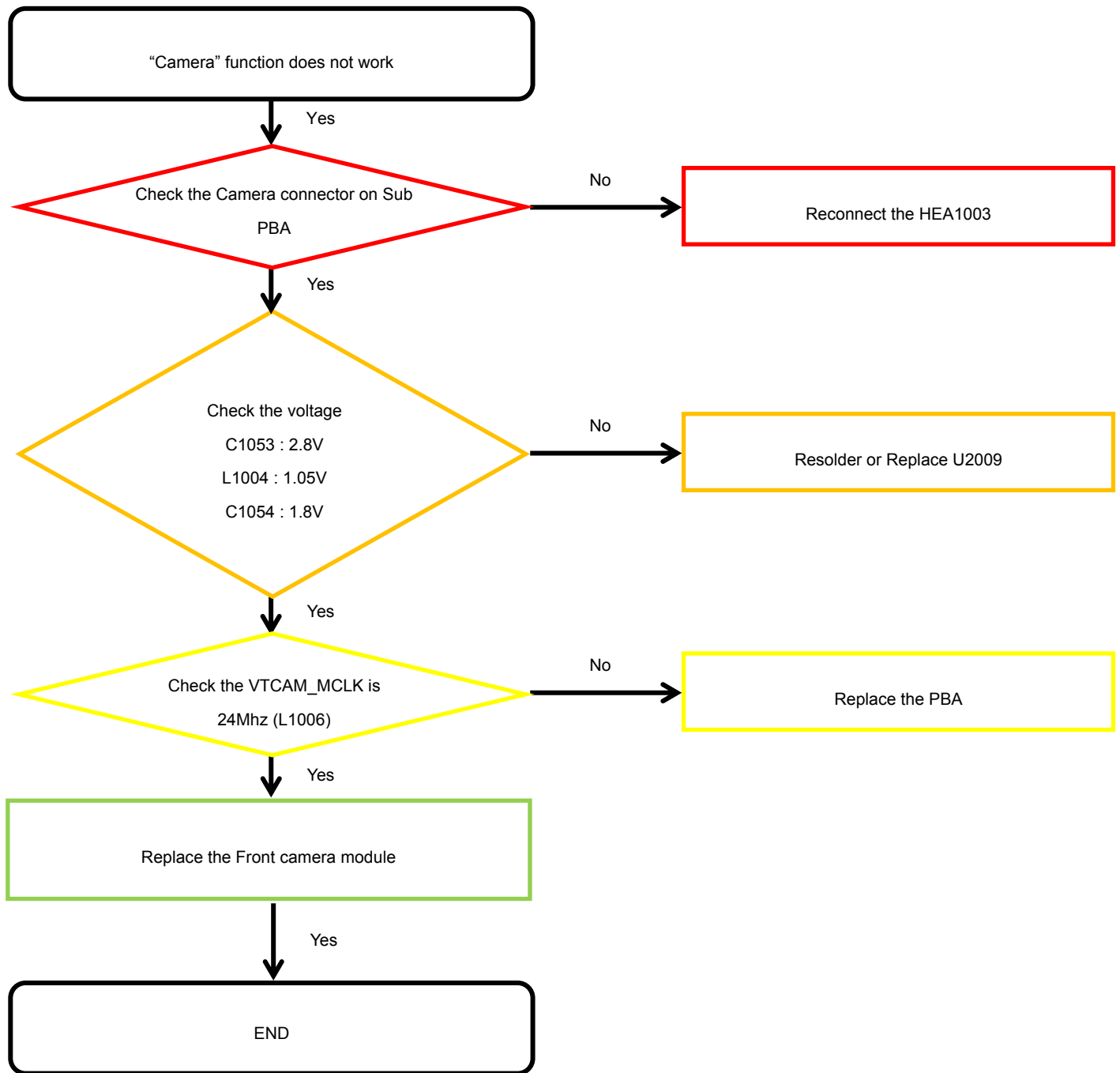
## 8. Level 3 Repair

### 8-4-17. 10M CAMERA (Dual)



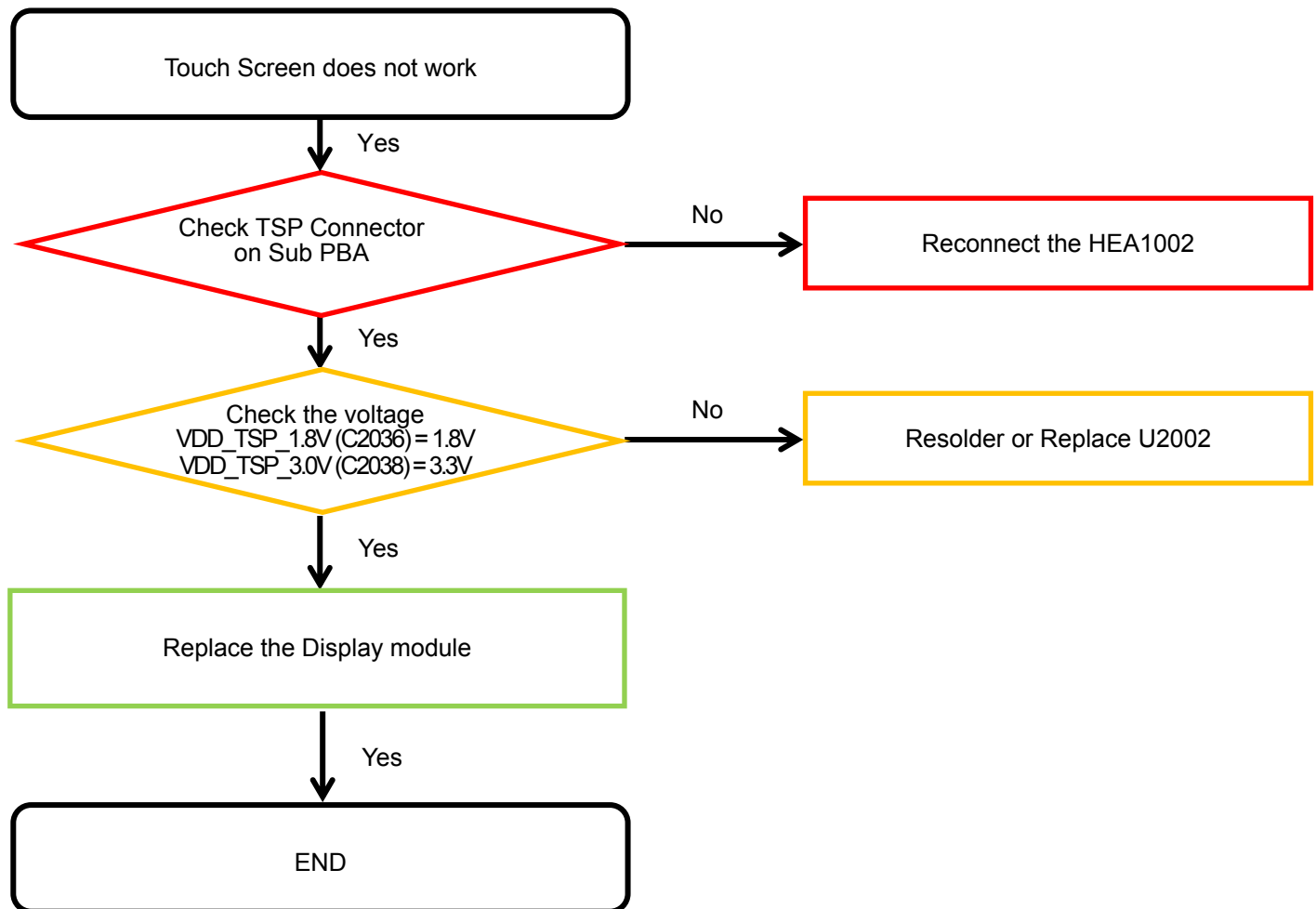
## 8. Level 3 Repair

### 8-4-18. 10M CAMERA (Single)



## 8. Level 3 Repair

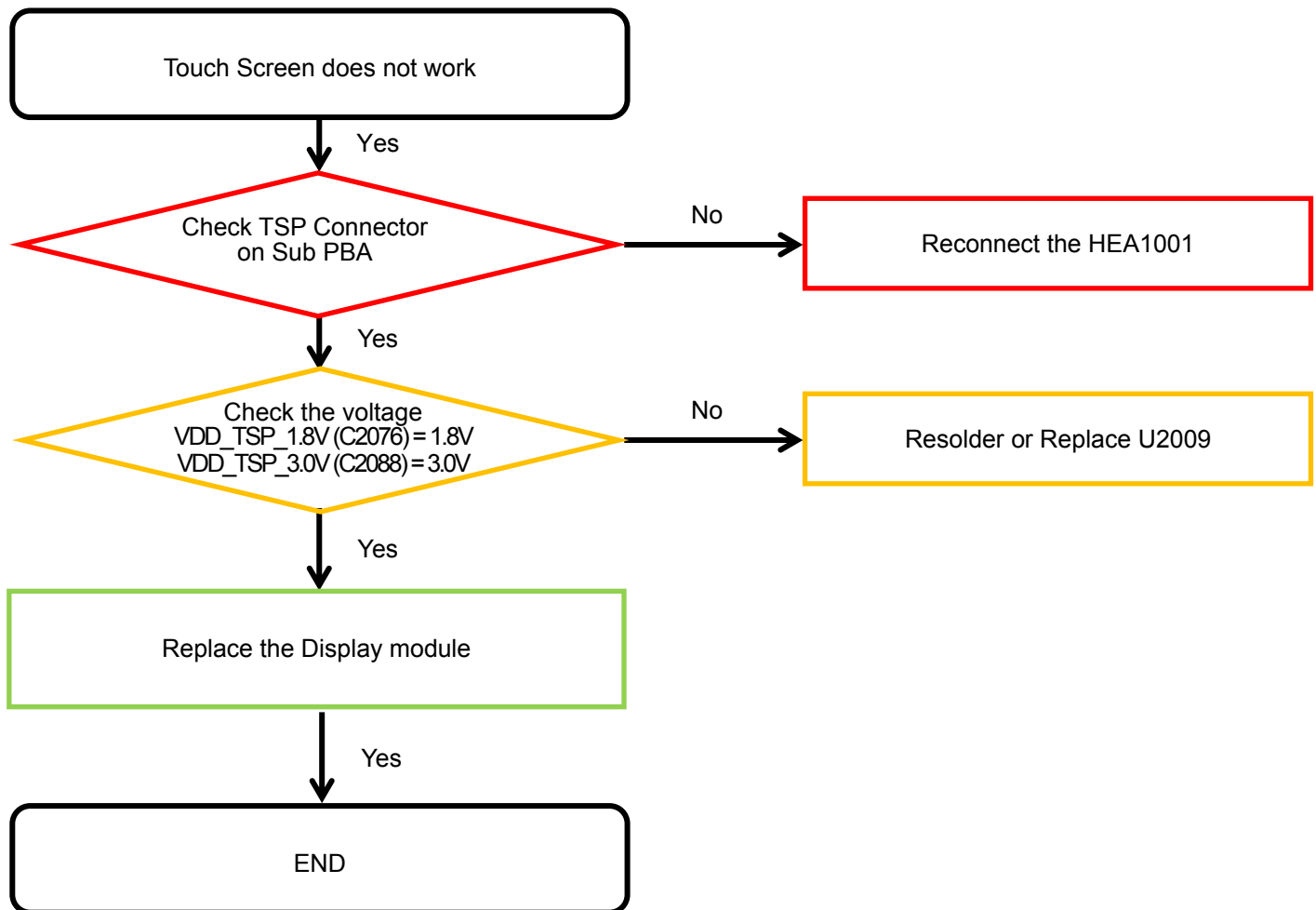
### 8-4-19. TSP (Main)





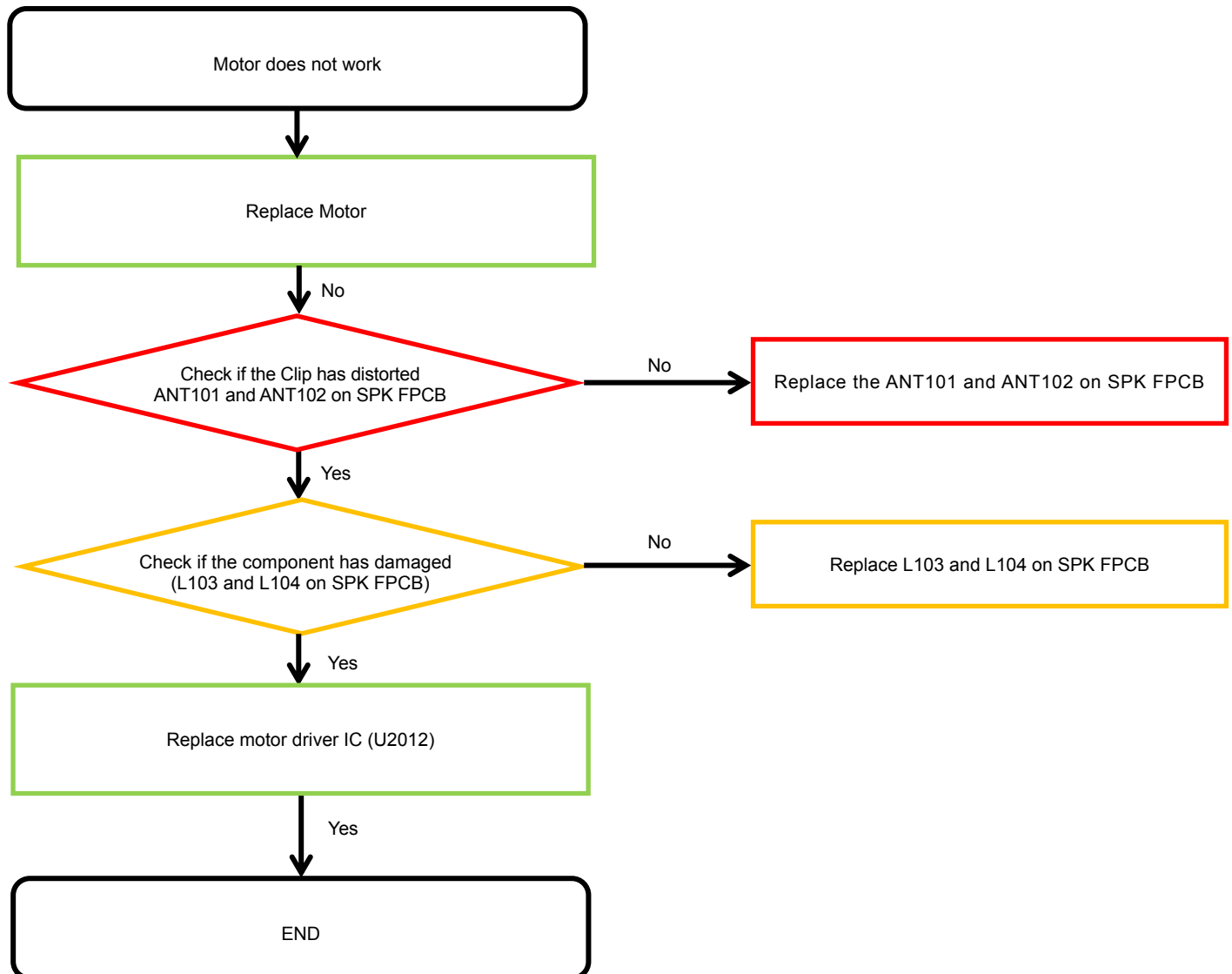
## 8. Level 3 Repair

### 8-4-20. TSP (Sub)



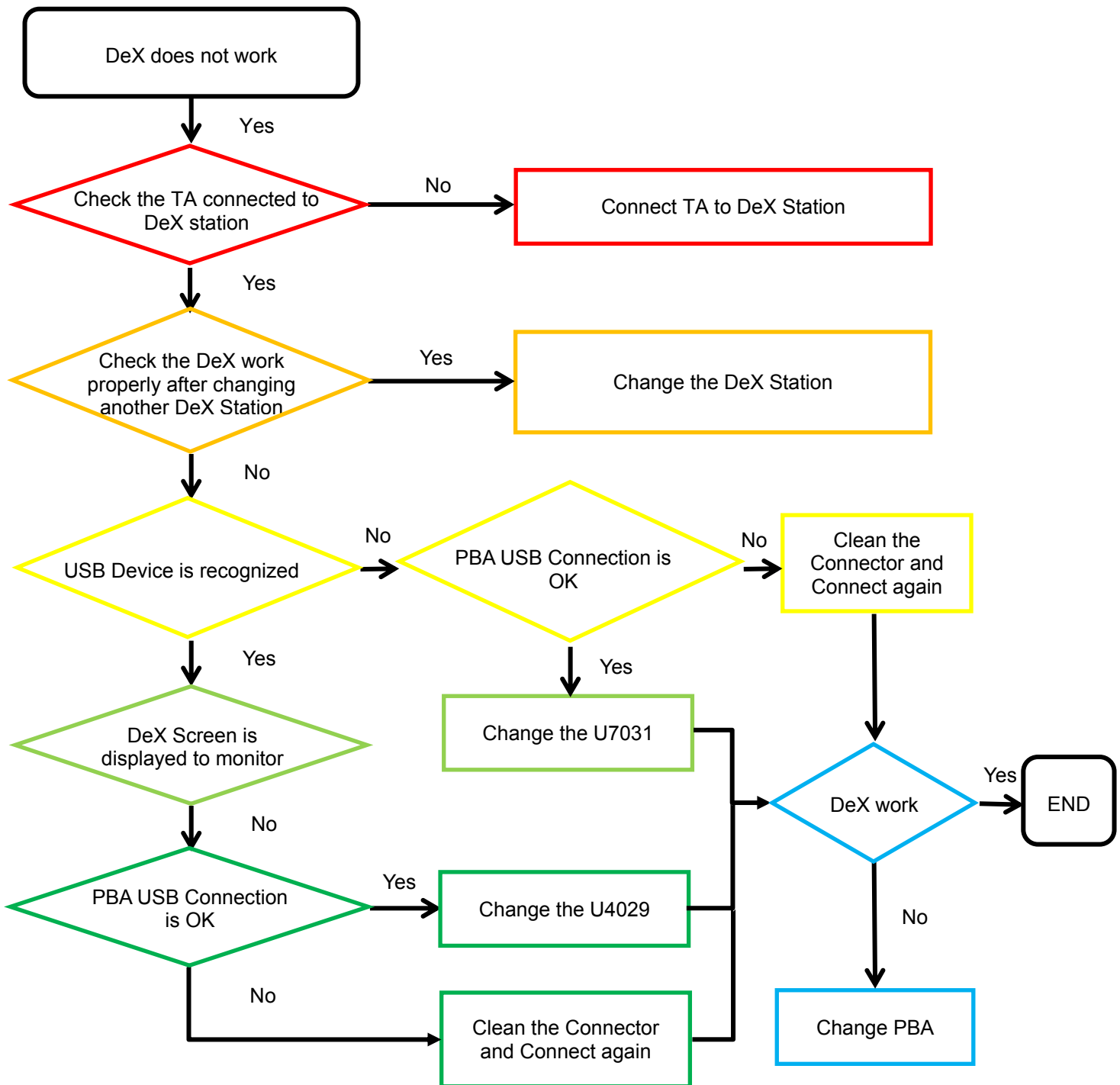
## 8. Level 3 Repair

### 8-4-21. Motor



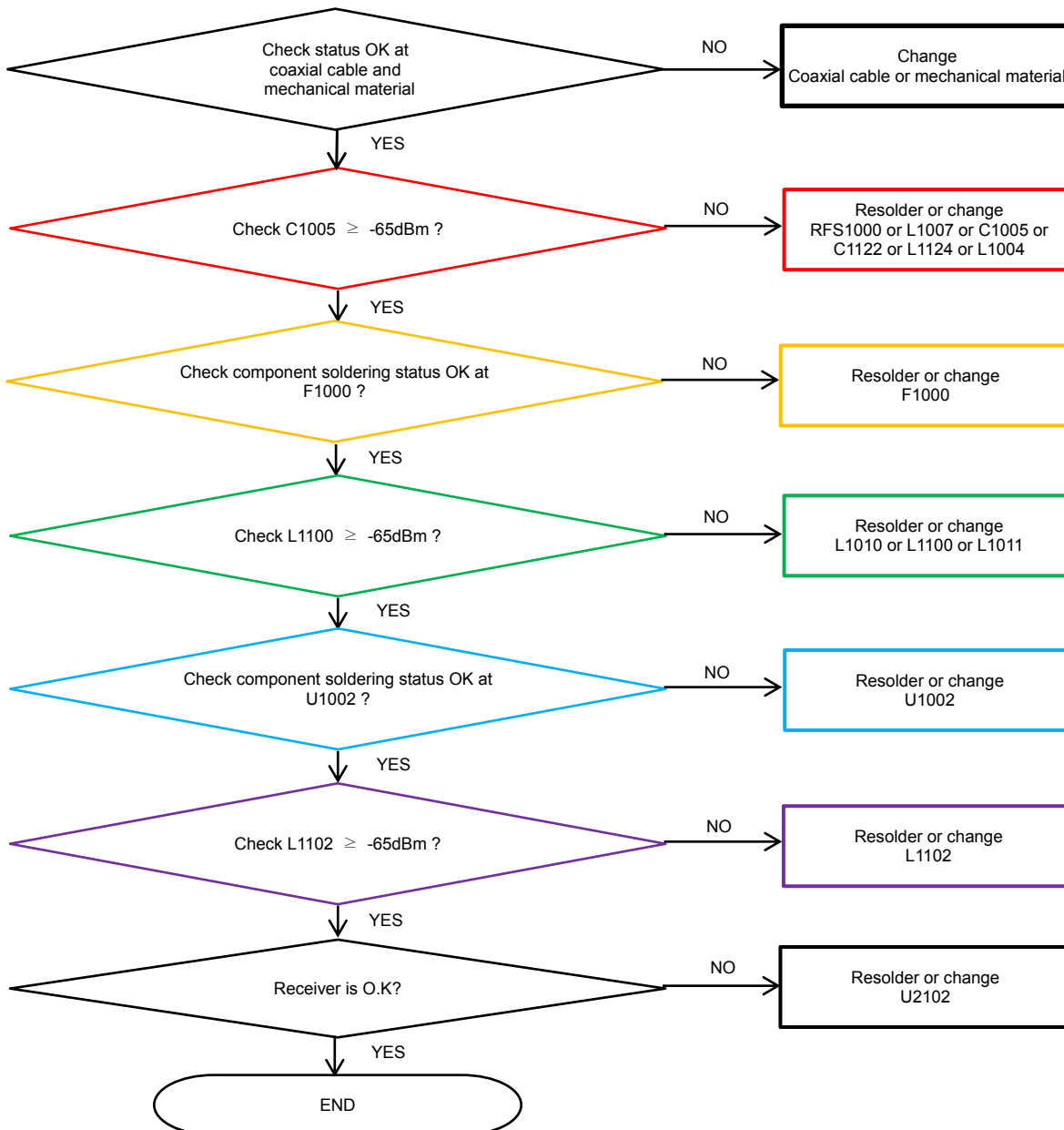
## 8. Level 3 Repair

### 8-4-22. DeX Station



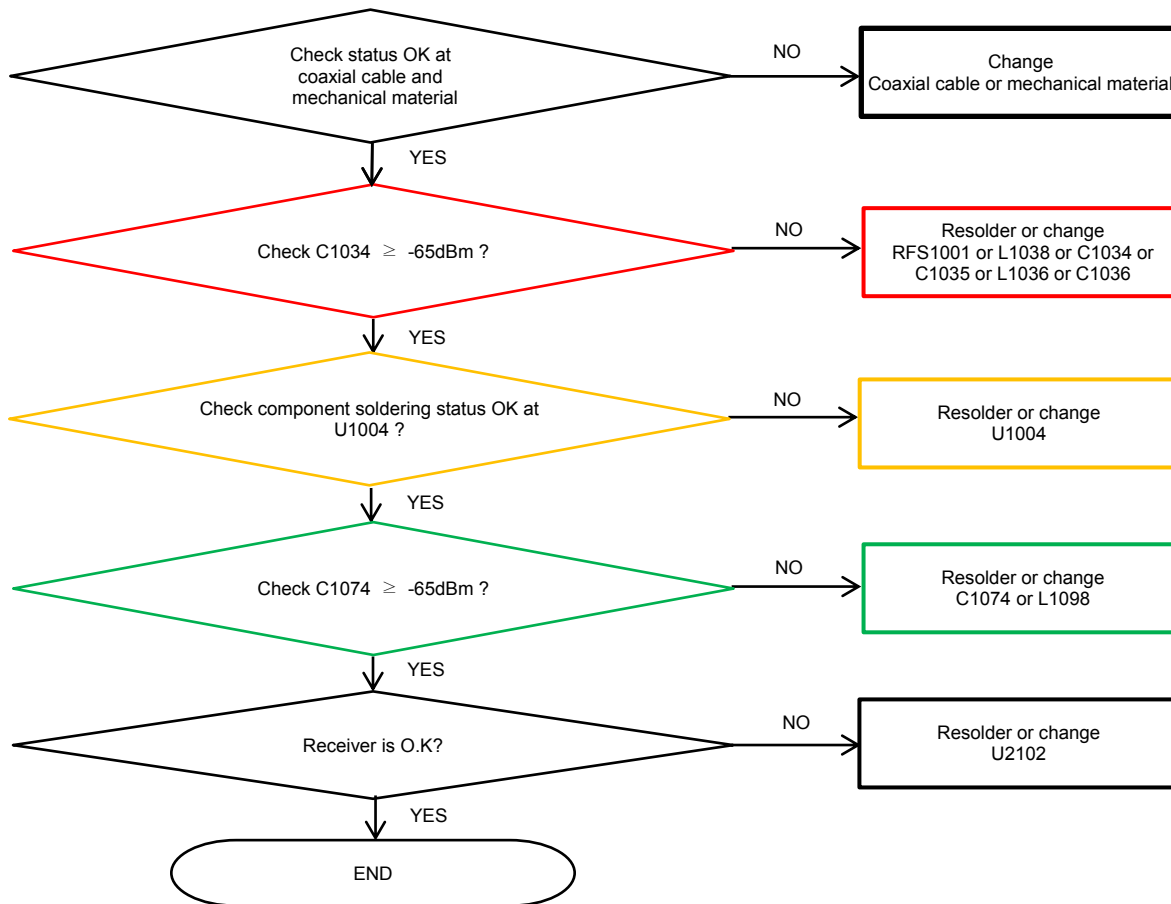
## 8. Level 3 Repair

### 8-4-23. GSM 850 / EGSM 900, WCDMA B5/8, LTE B5/8/12/13/18/19/20/26/28/29 PRx



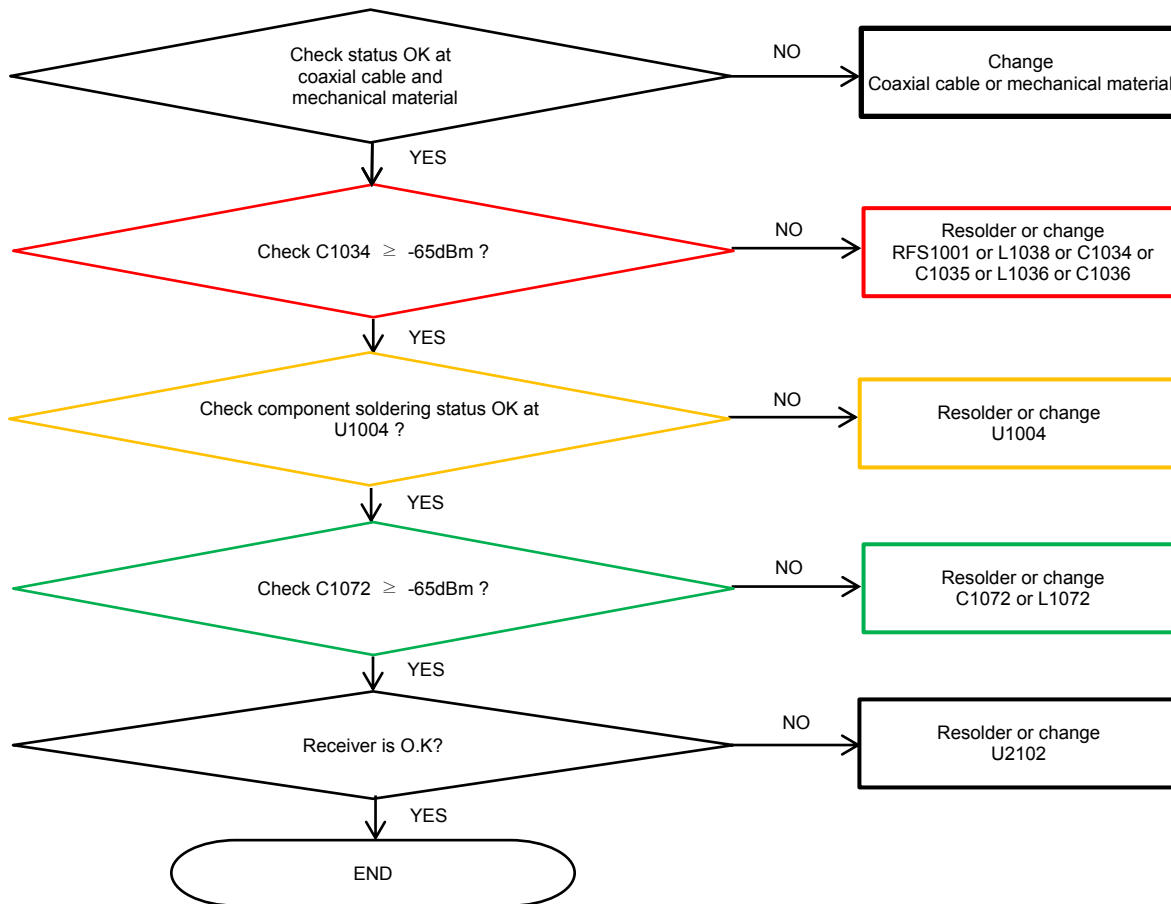
## 8. Level 3 Repair

### 8-4-24. DCS 1800 / PCS 1900, WCDMA B1/4, LTE B1/4/66 PRx



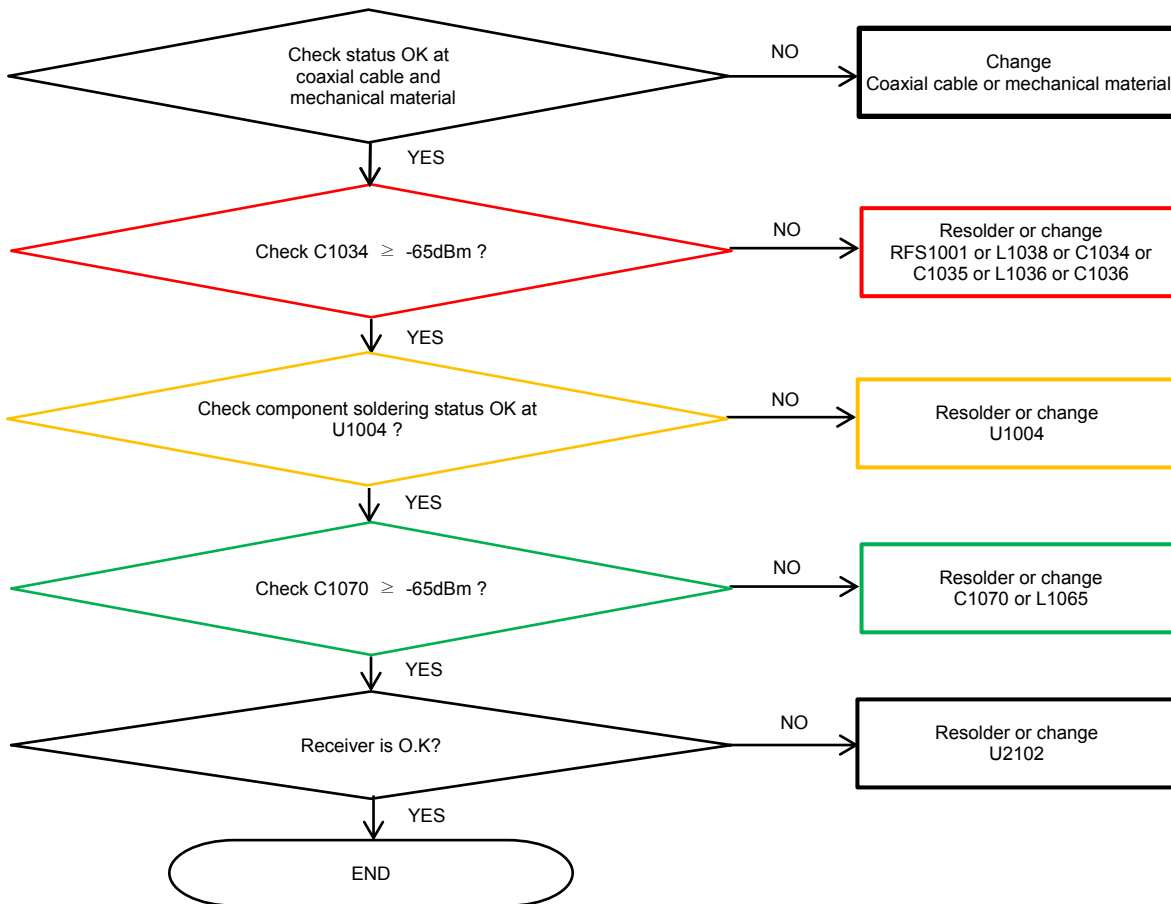
## 8. Level 3 Repair

### 8-4-25. WCDMA B2, TDSCDMA B34/39, LTE B2/3/25/39 PRx



## 8. Level 3 Repair

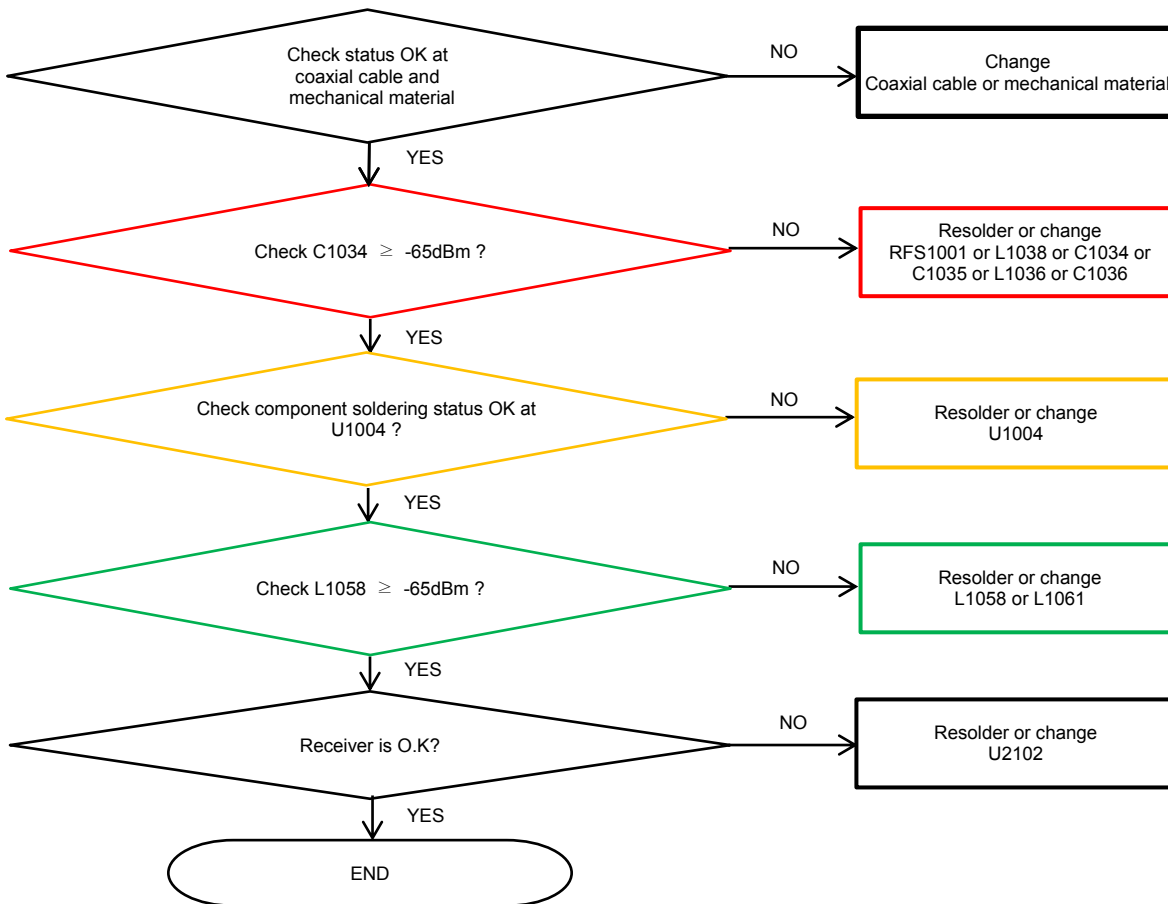
### 8-4-26. LTE B7/30/38/41 PRx





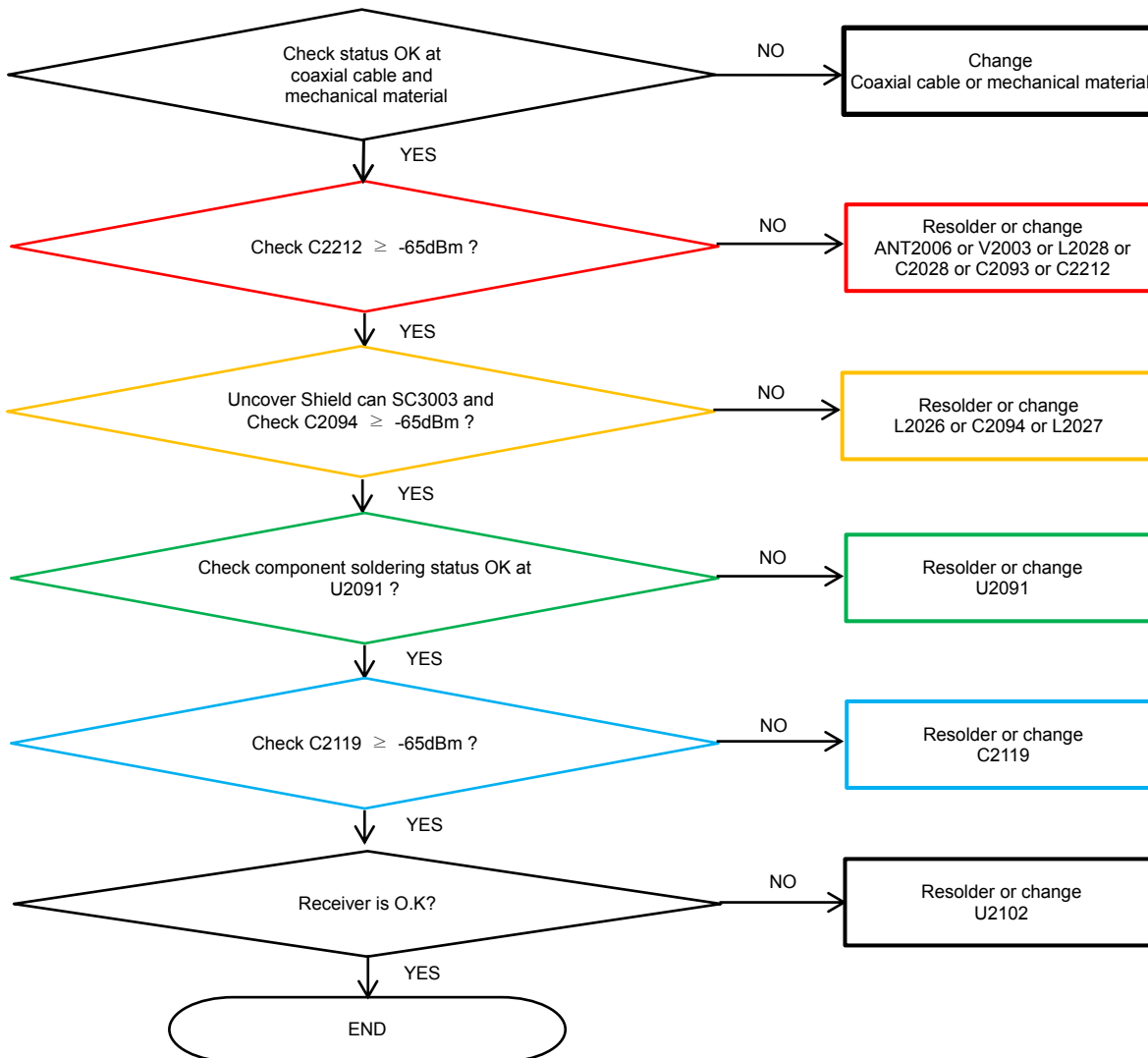
## 8. Level 3 Repair

### 8-4-27. LTE B40 PRx



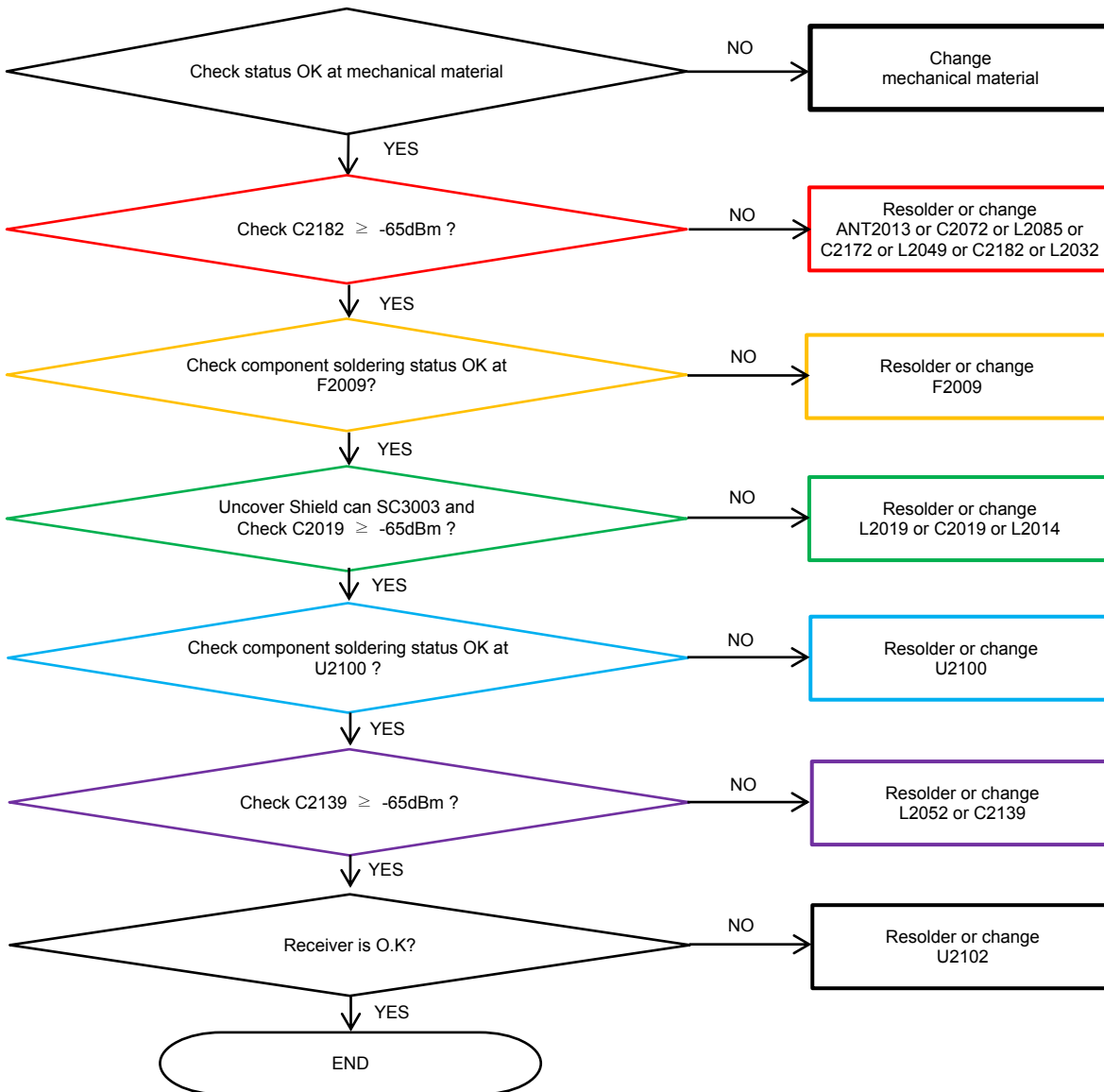
## 8. Level 3 Repair

### 8-4-28. GSM 850 / EGSM 900, WCDMA B5/8, LTE B5/8/12/13/18/19/20/26/28/29 DRx



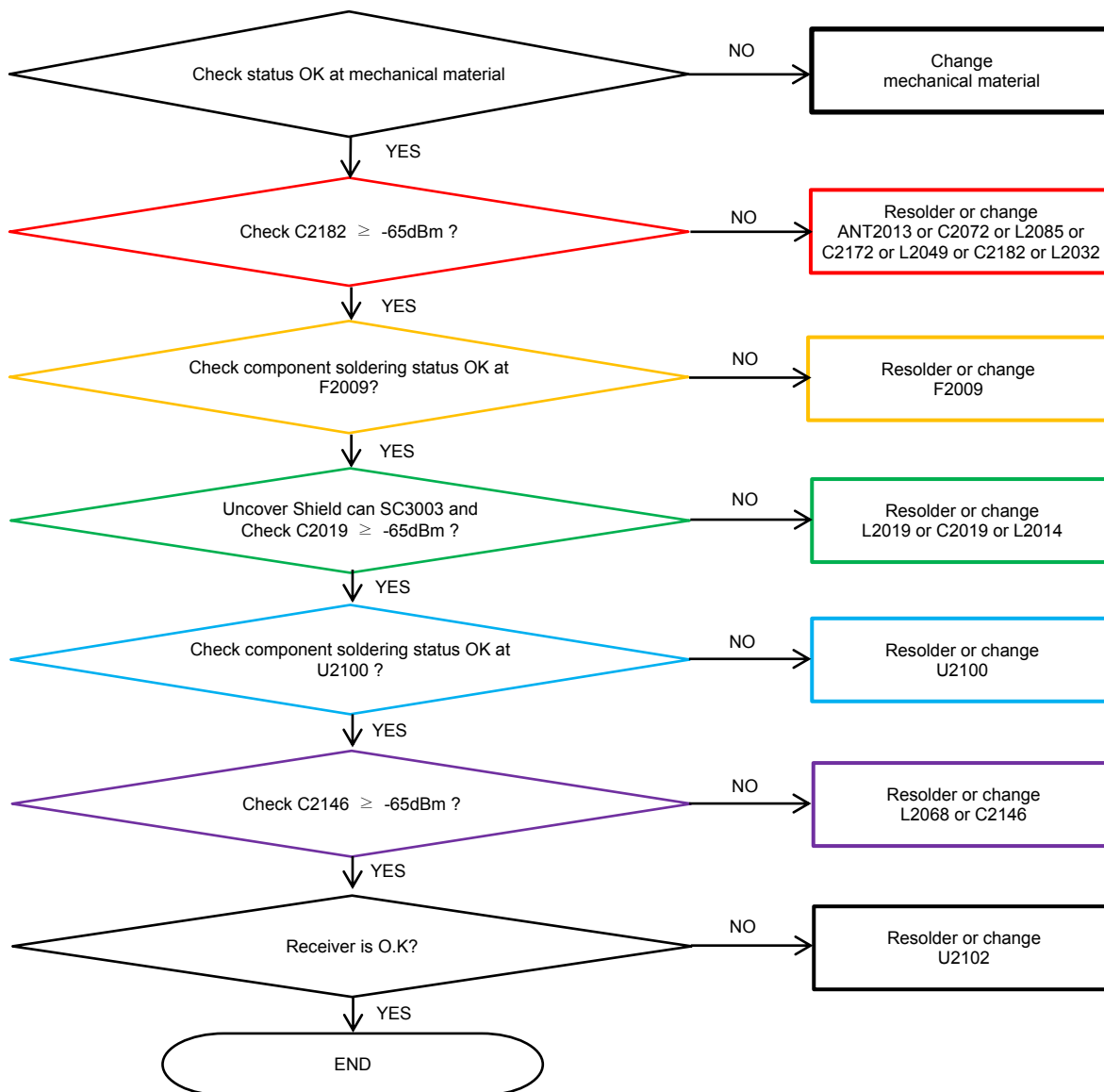
## 8. Level 3 Repair

### 8-4-29. DCS 1800 / PCS 1900, WCDMA B1/4, LTE B1/4/66 DRx



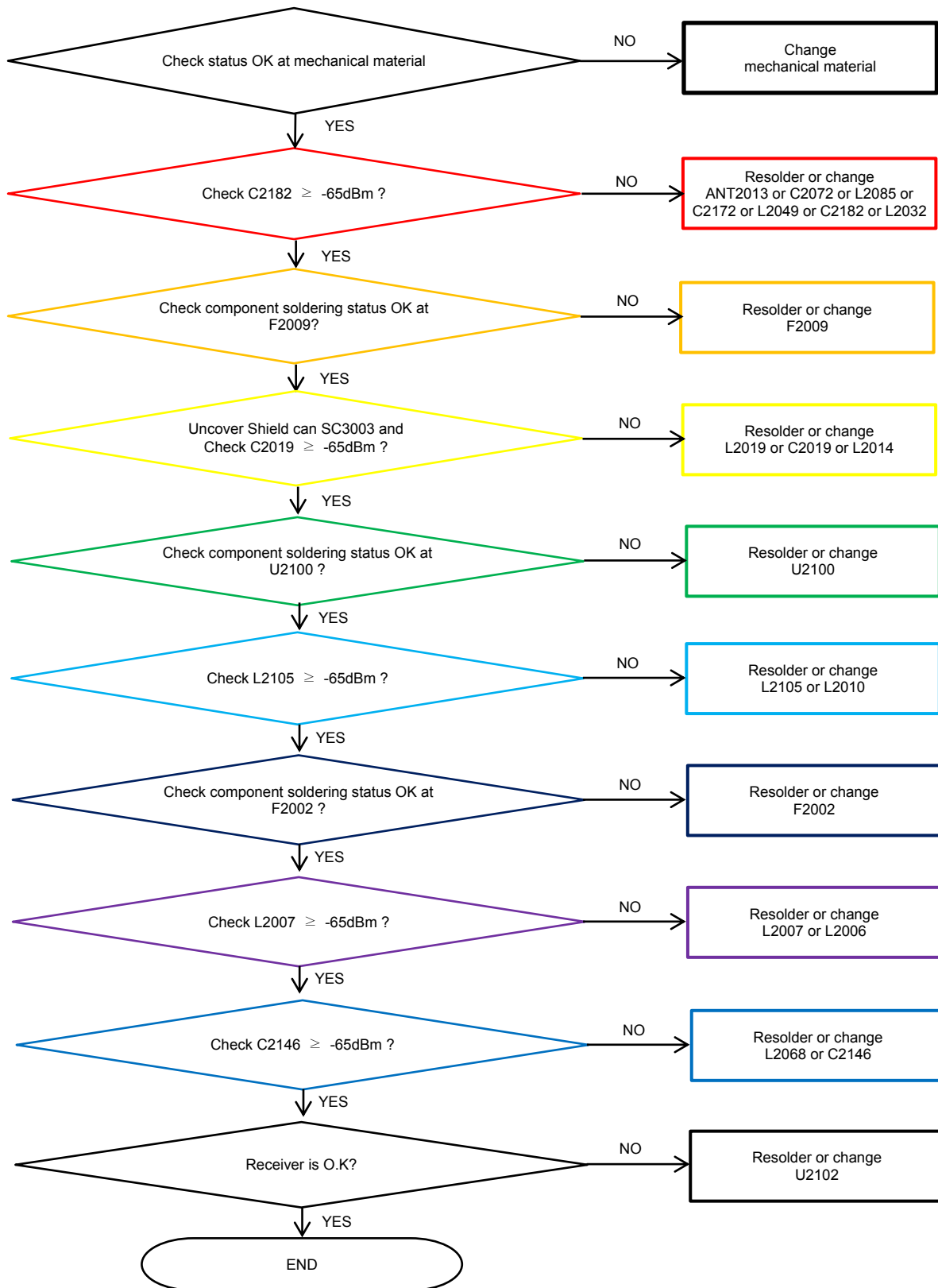
## 8. Level 3 Repair

### 8-4-30. WCDMA B2, LTE B2/3/25 DRx



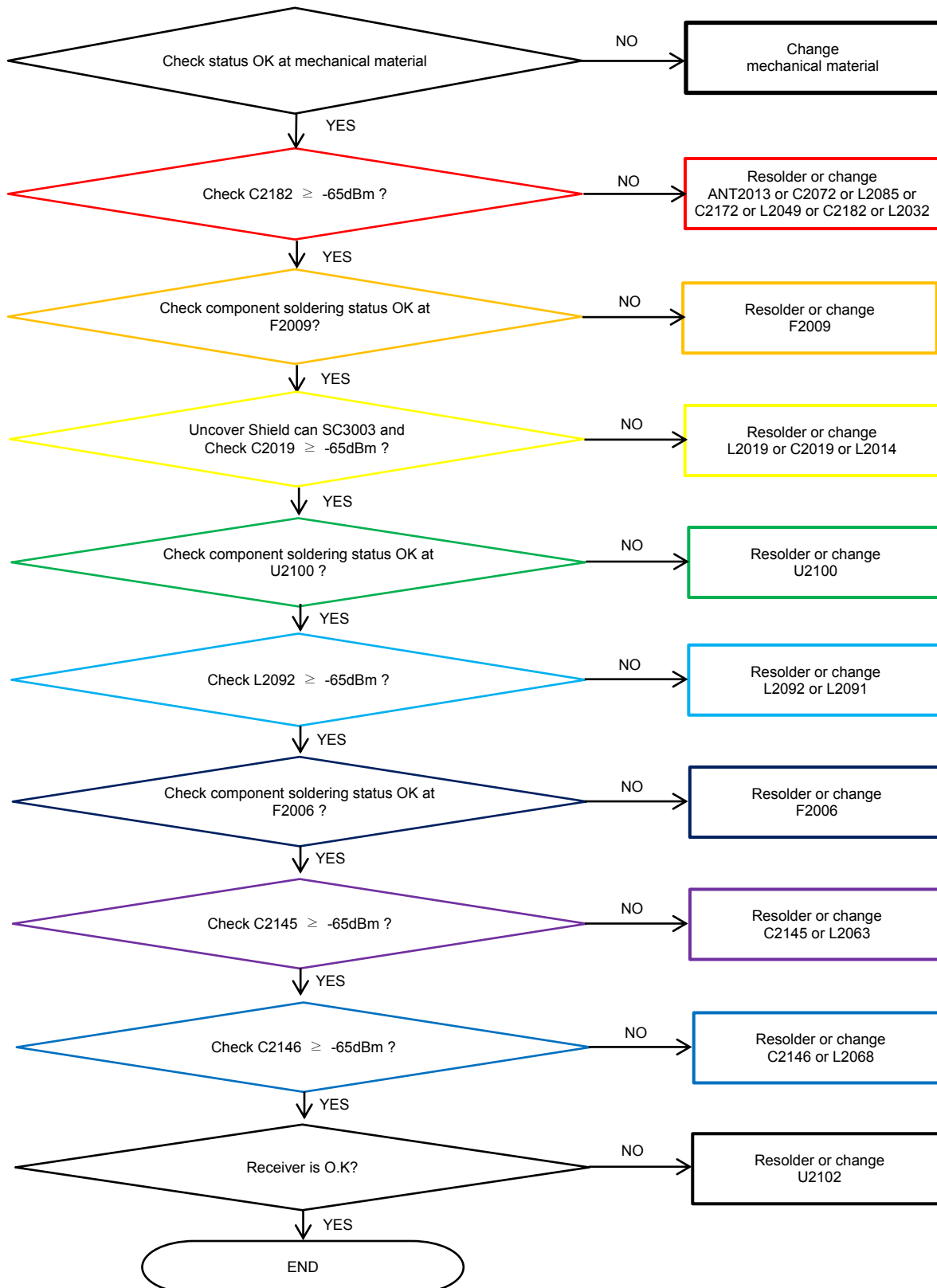
## 8. Level 3 Repair

### 8-4-31. TDSCDMA B34 DRx



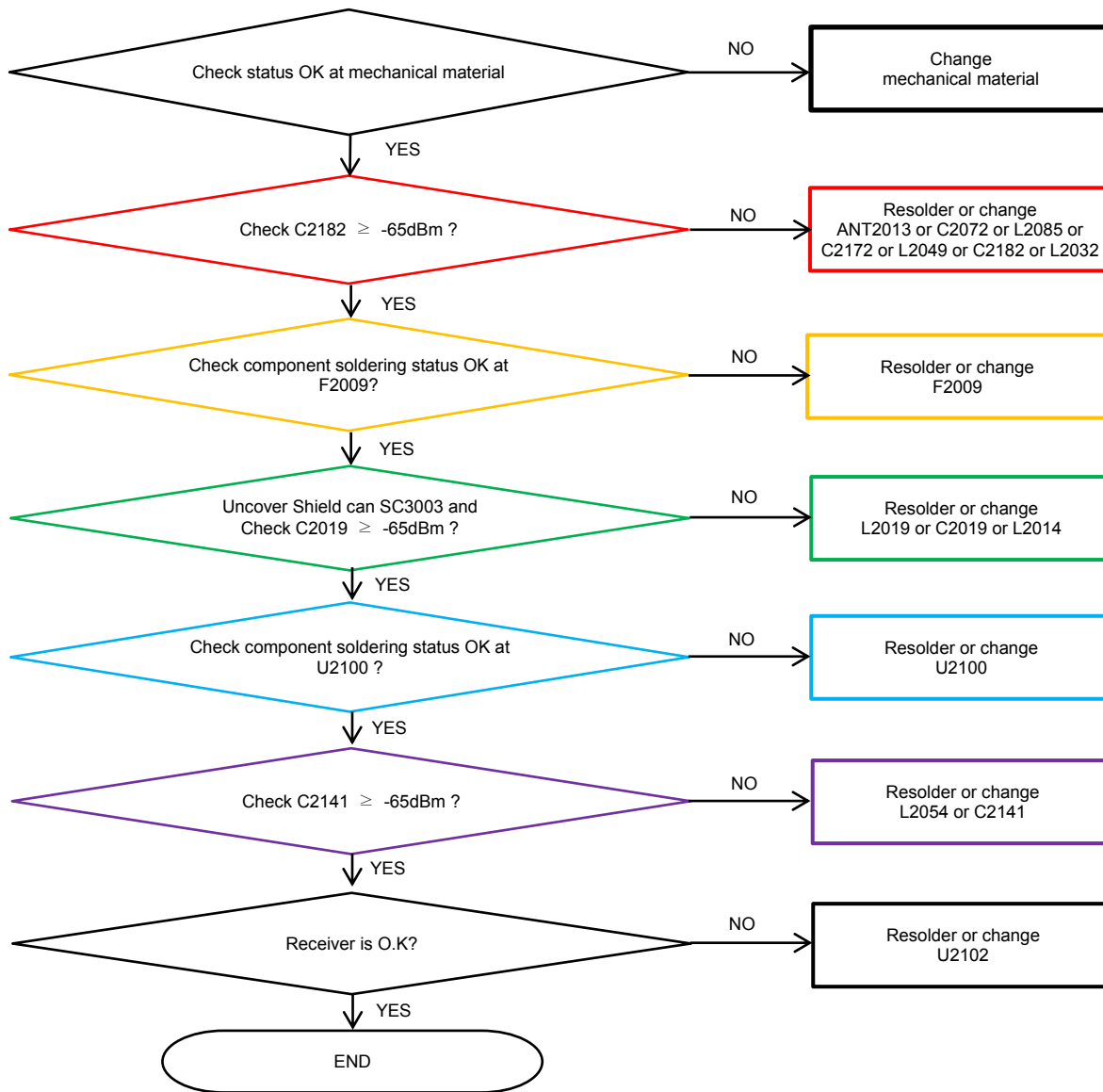
## 8. Level 3 Repair

### 8-4-32. TDSCDMA B39, LTE B39 DRx



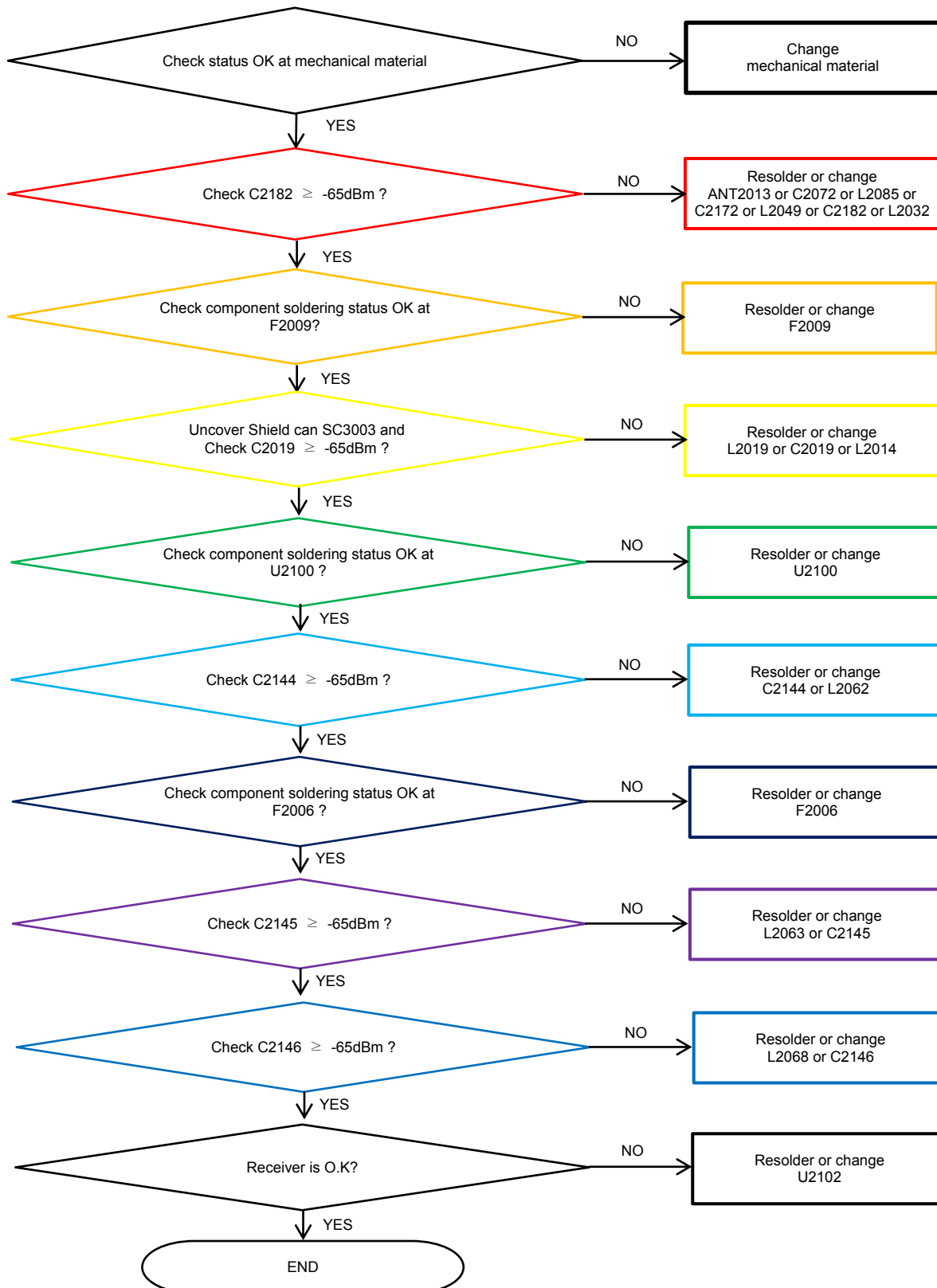
## 8. Level 3 Repair

### 8-4-33. LTE B7/30 DRx



## 8. Level 3 Repair

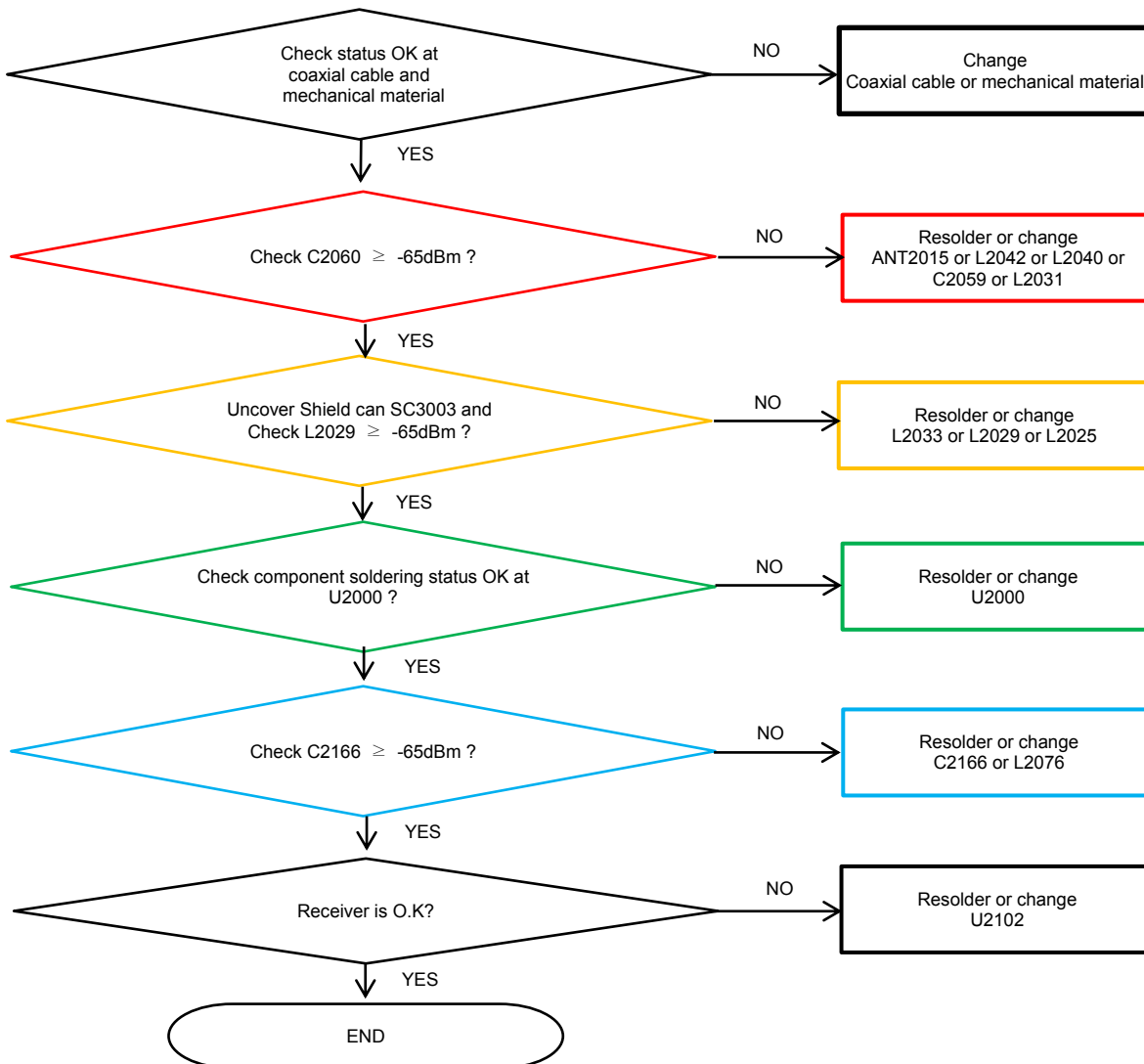
### 8-4-34. LTE B38/41 DRx





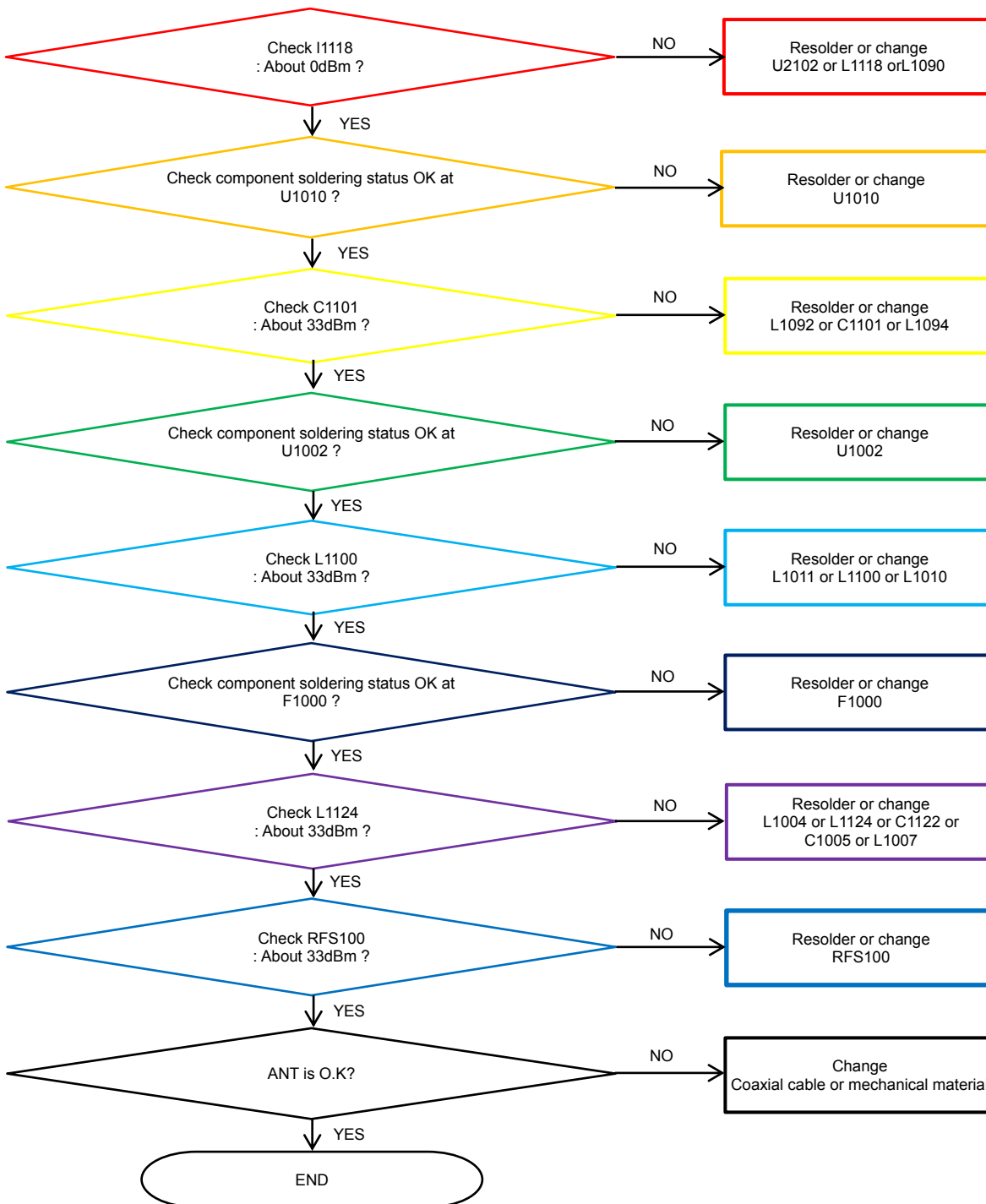
## 8. Level 3 Repair

### 8-4-35. LTE B40 DRx



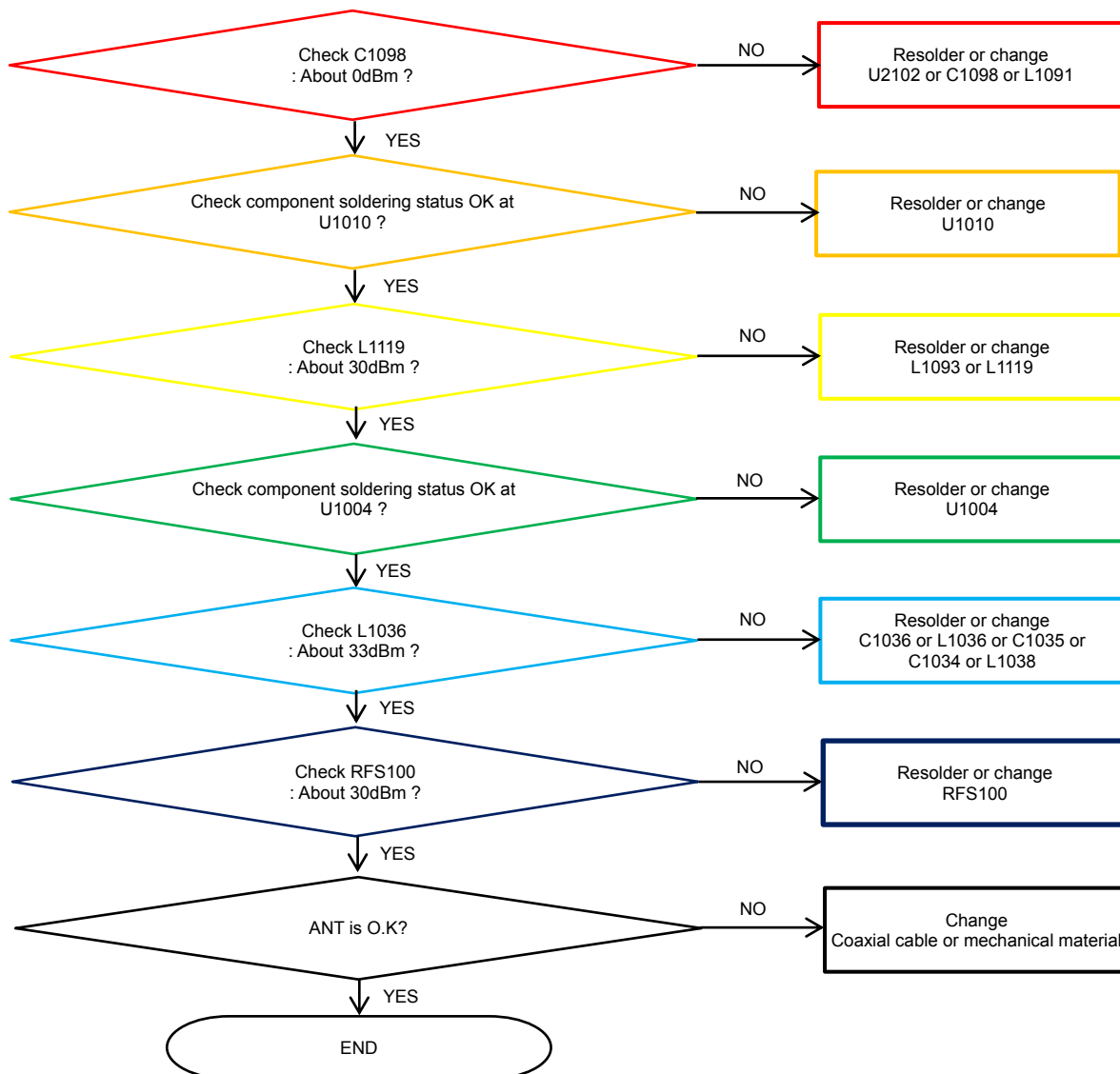
## 8. Level 3 Repair

### 8-4-36. GSM 850 / EGSM 900 Tx



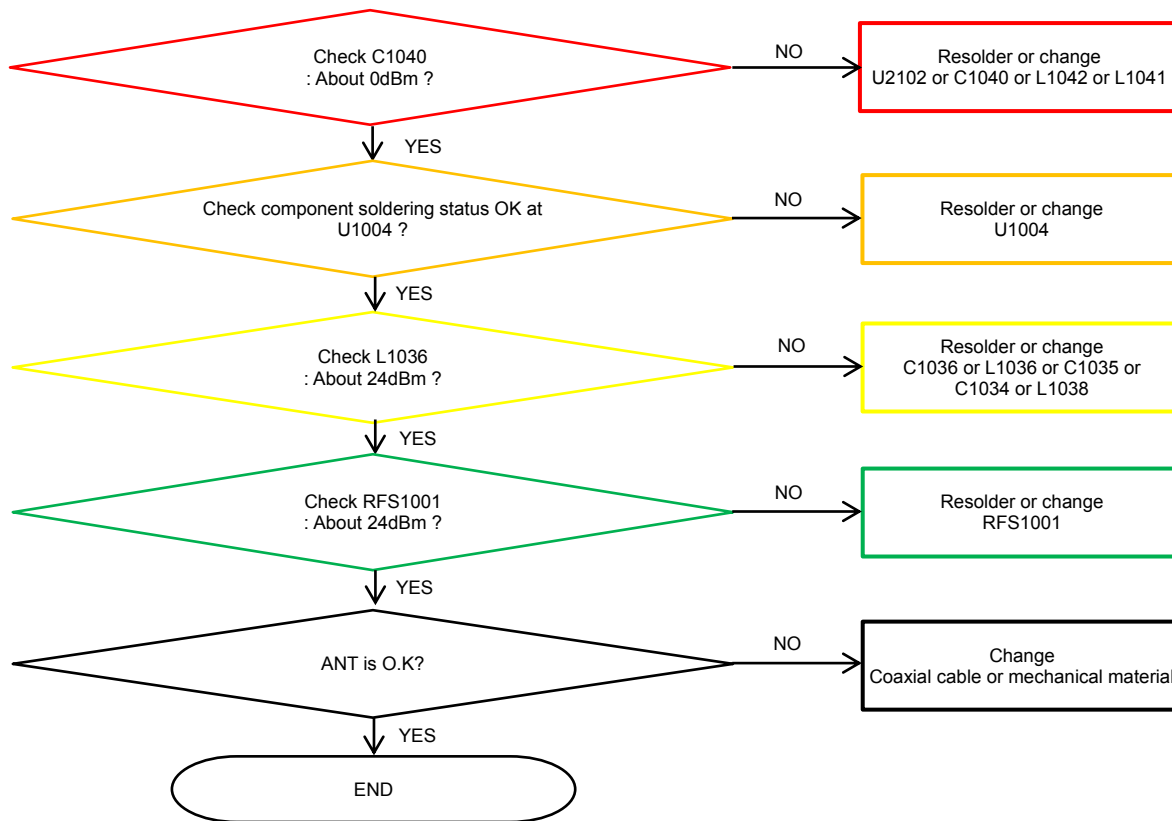
## 8. Level 3 Repair

### 8-4-37. DCS 1800 / PCS 1900 Tx



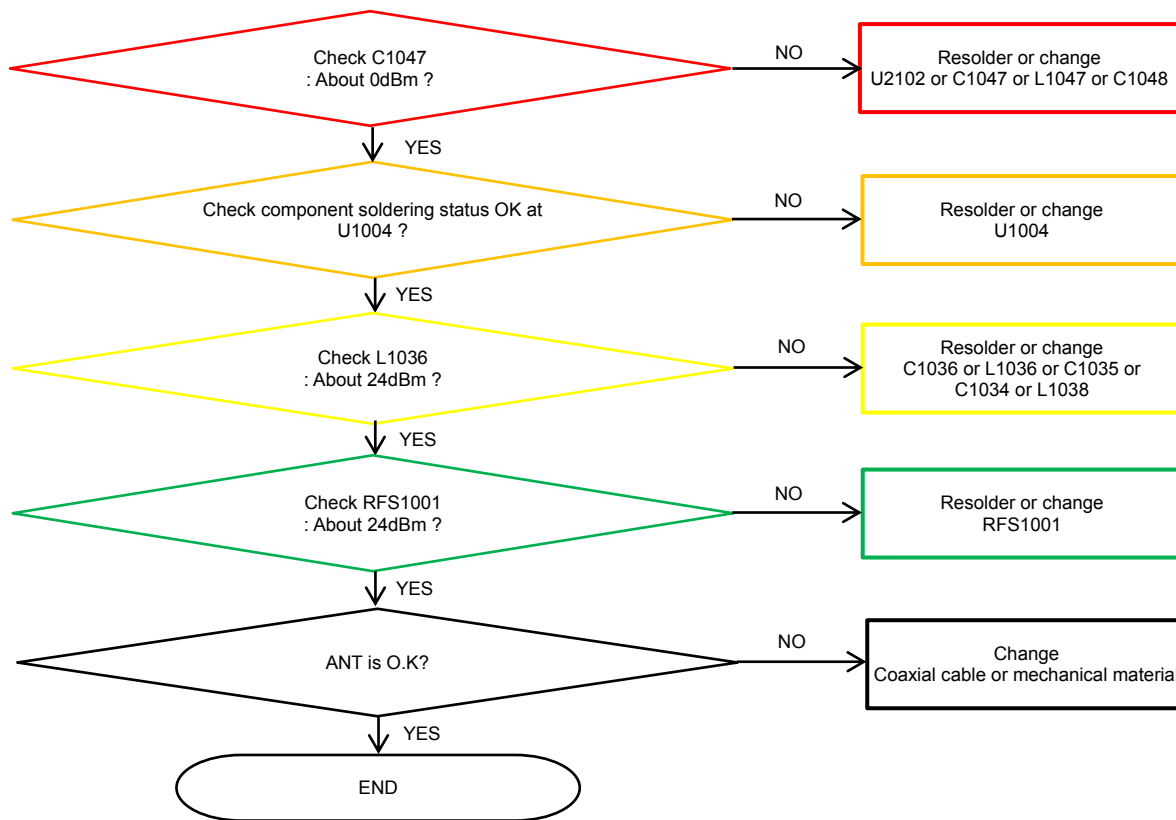
## 8. Level 3 Repair

### 8-4-38. WCDMA B1/2/4, TDSCDMA B34/39, LTE B1/2/3/4/25/39/66 Tx



## 8. Level 3 Repair

### 8-4-39. LTE B7/30/38/40/41 Tx



## 8. Level 3 Repair

### 8-4-40. WCDMA B5/8, LTE B5/8/12/13/18/19/20/26/28 Tx

