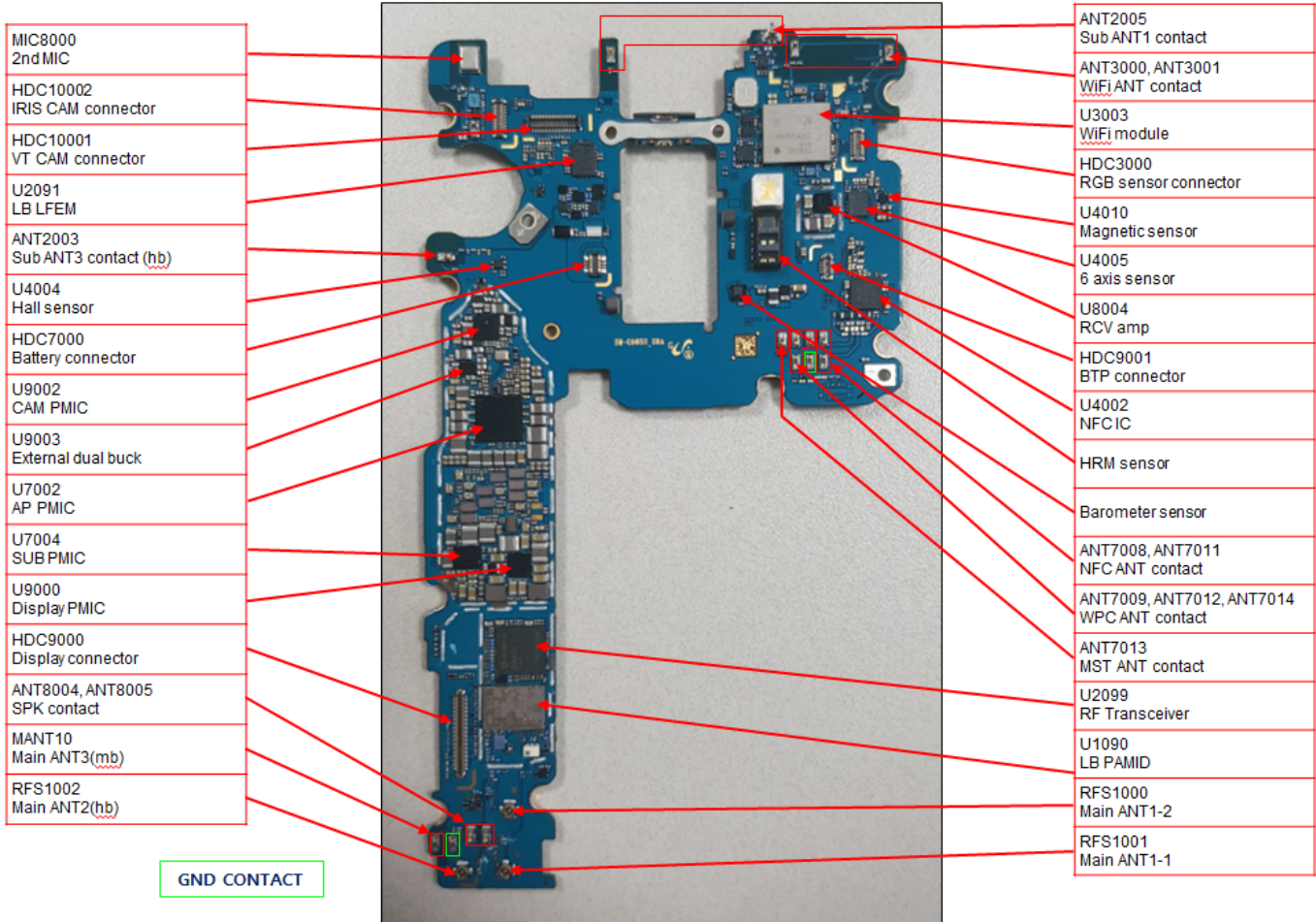


# 8. Level 3 Repair

## 8-1. Components Layout

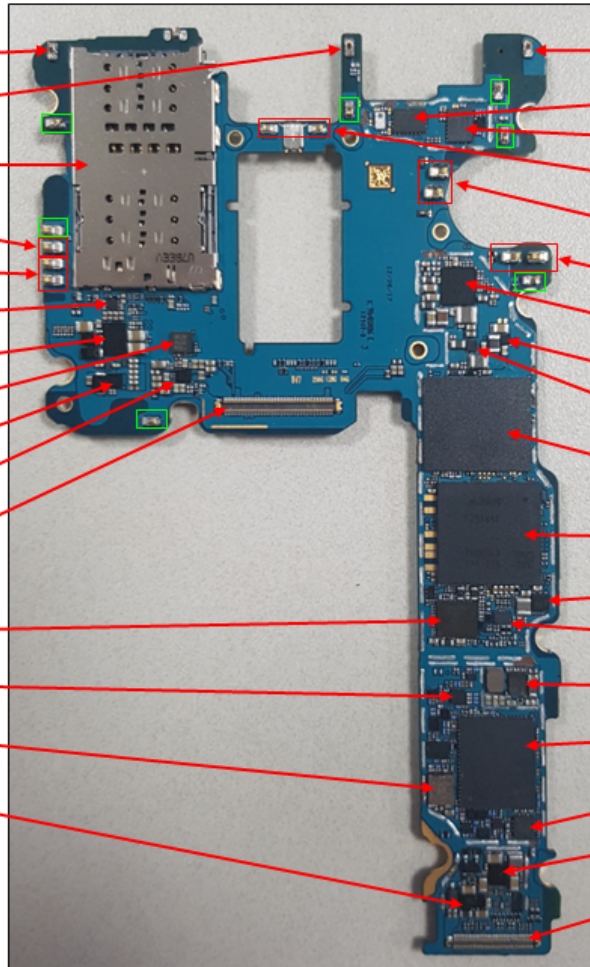
PBA ( Rear side)



## PBA ( Front side)

ANT3000, ANT3001 WiFi ANT contact
ANT2006 Sub ANT1 contact (LB/mb)
SIM3000 SIM/T-Flash socket
ANT7003 Intelligent Key contact
ANT7001, ANT7004 Volume key contact
U9007 BTP Dual LDO
U7005 MST IC
U5000 GPIO expander IC
U7003 MST Switch
U9001 2 <sup>nd</sup> CAM PMIC
HDC10000 Main CAM connector
U8001 CODEC
F1005 4P4T Switch
U1004 2G PA
U4001 OVP IC

GND CONTACT

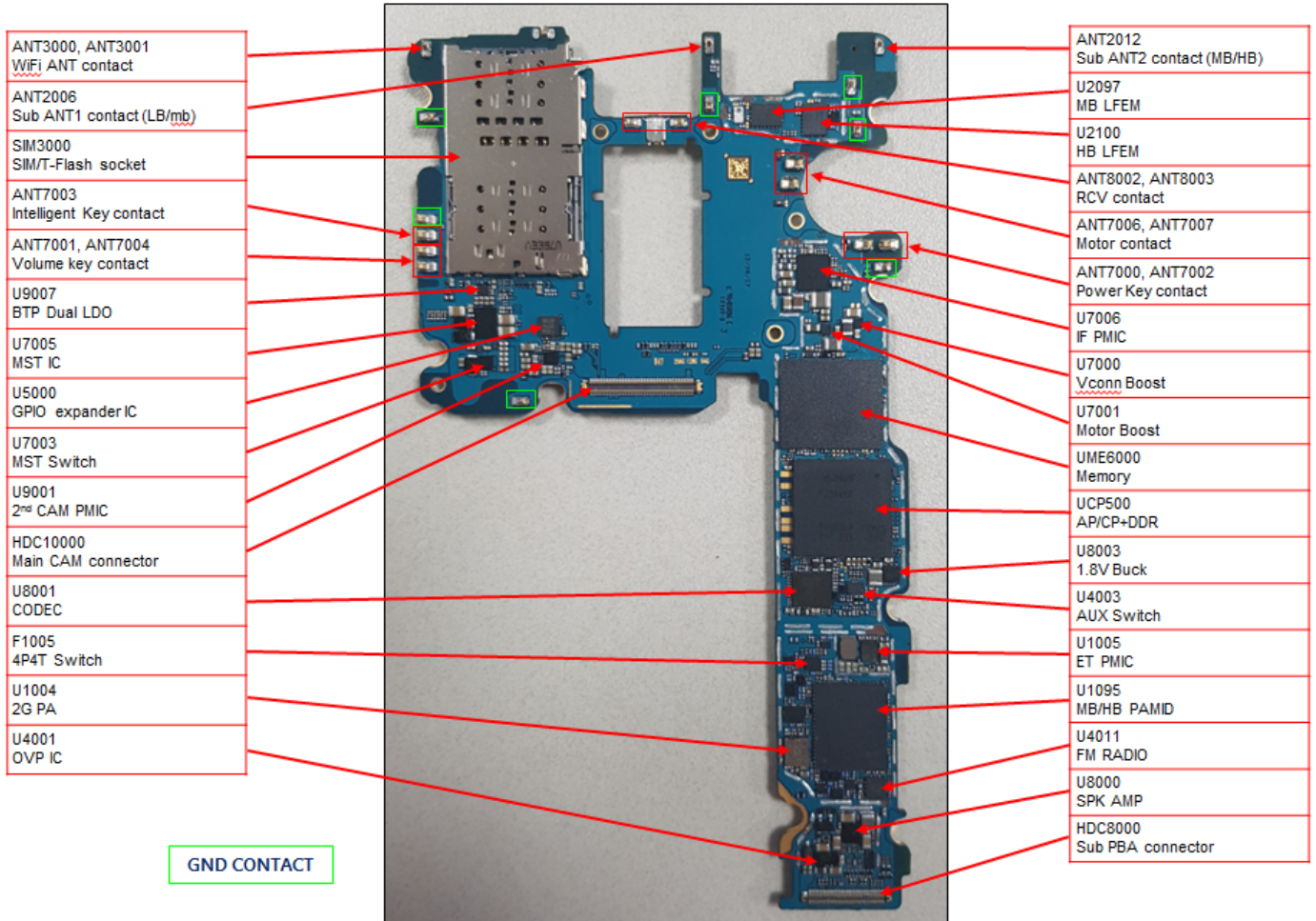


ANT2012 Sub ANT2 contact (MB/HB)
U2097 MB LFEM
U2100 HB LFEM
ANT8002, ANT8003 RCV contact
ANT7006, ANT7007 Motor contact
ANT7000, ANT7002 Power Key contact
U7006 IF PMIC
U7000 Vconn Boost
U7001 Motor Boost
UME6000 Memory
UCP500 AP/CP+DDR
U8003 1.8V Buck
U4003 AUX Switch
U1005 ET PMIC
U1095 MB/HB PAMID
U4011 FM RADIO
U8000 SPK AMP
HDC8000 Sub PBA connector

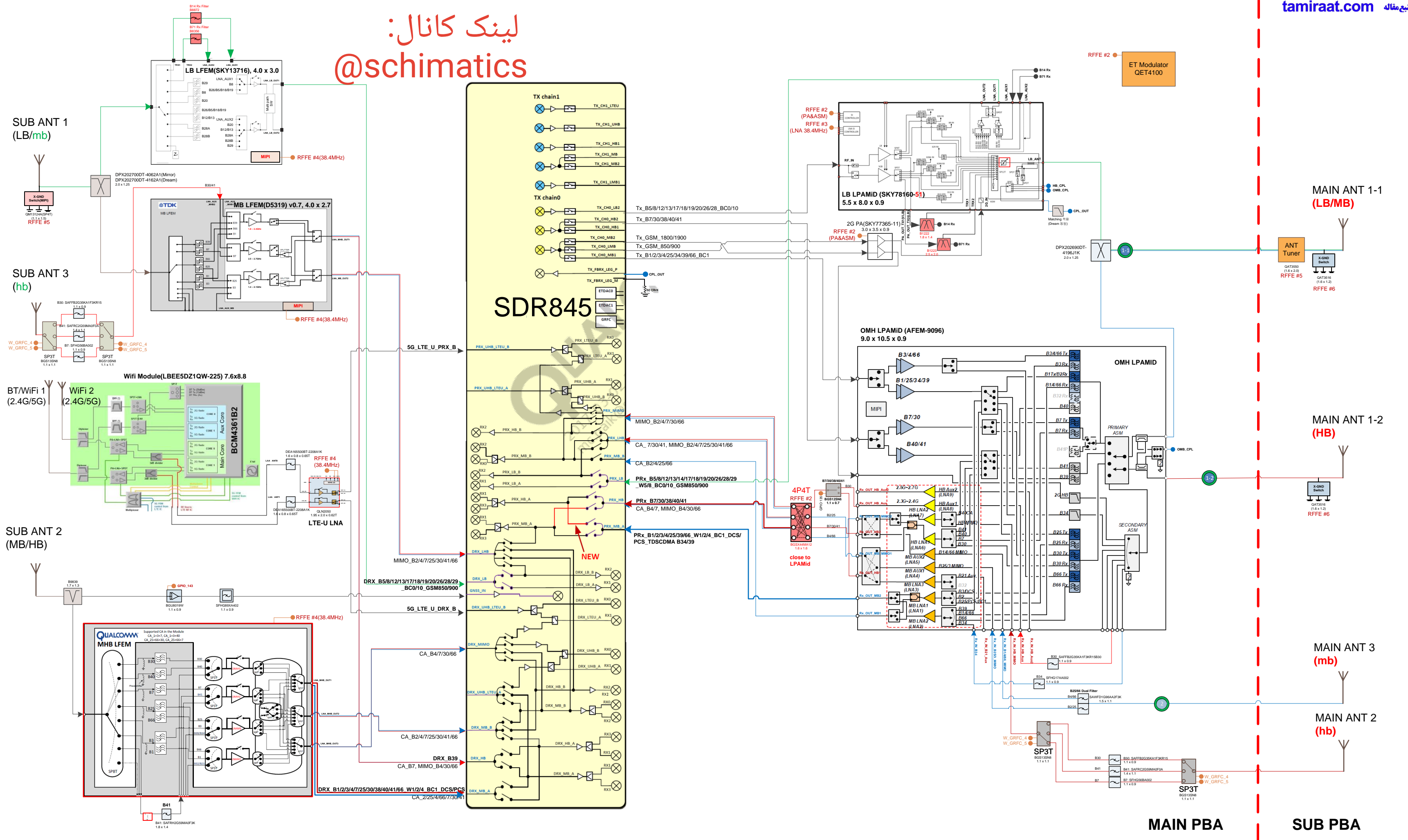
لینک کانال:  
@schimatics

# 8. Level 3 Repair

## PBA ( Front side)



لينك كانال:  
@schimatics

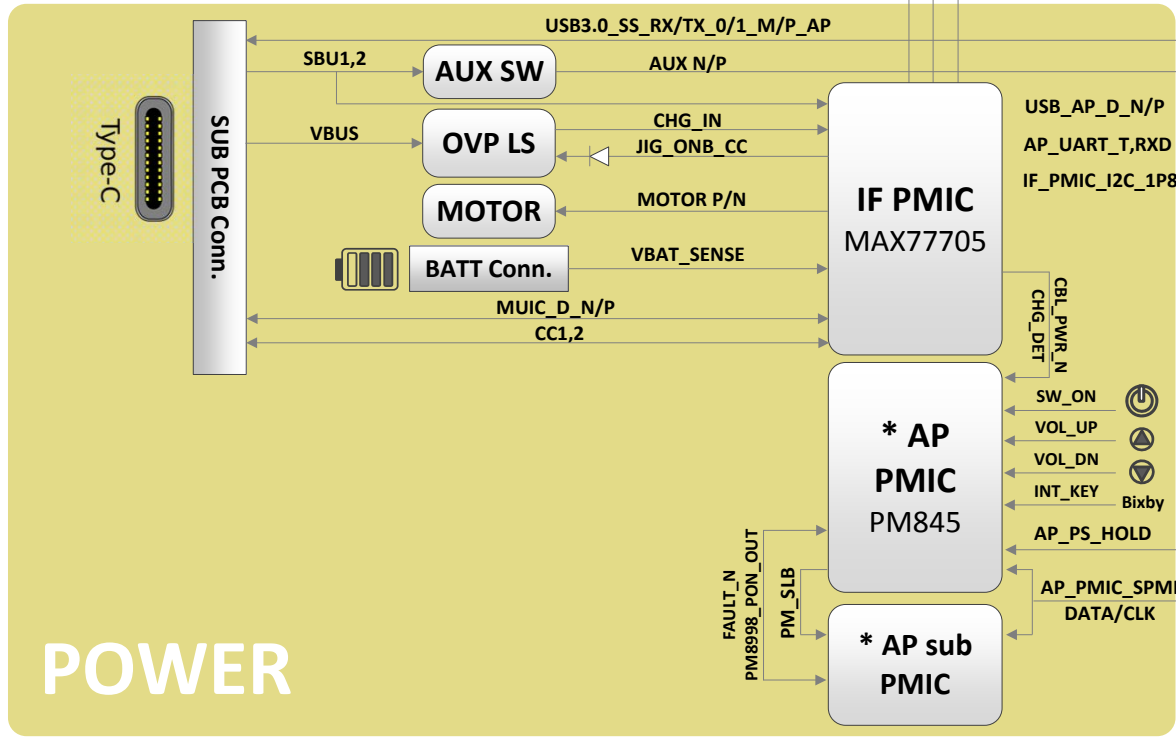
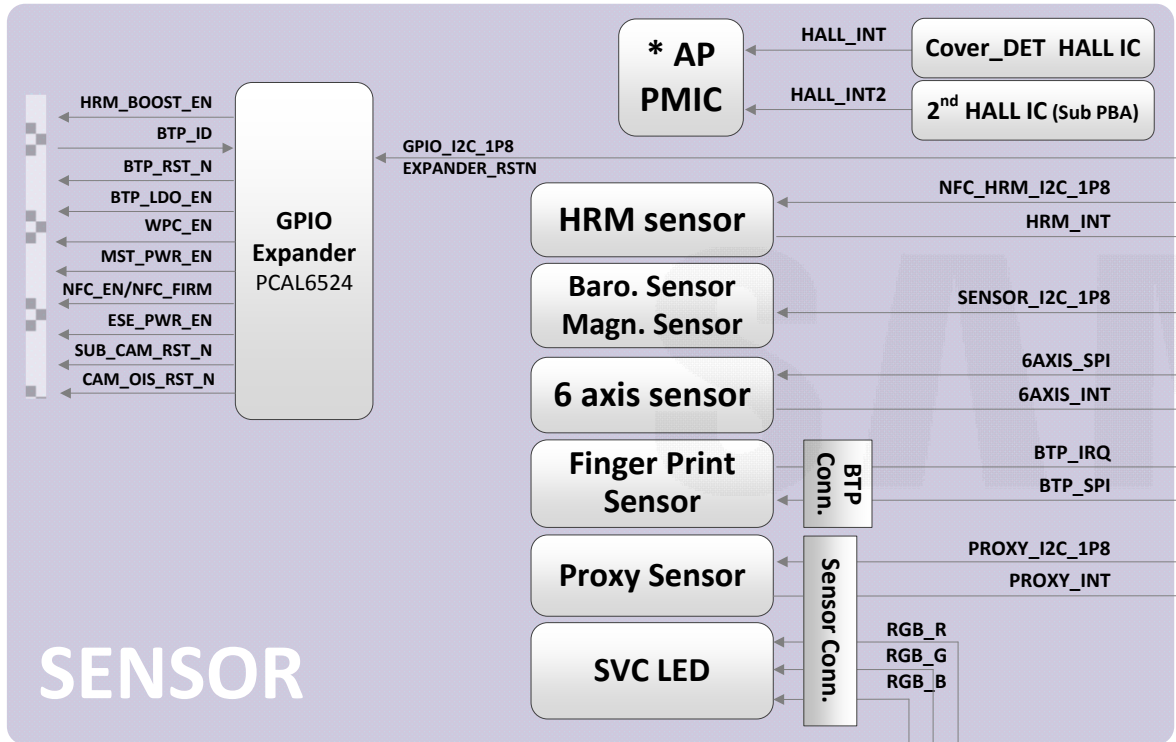
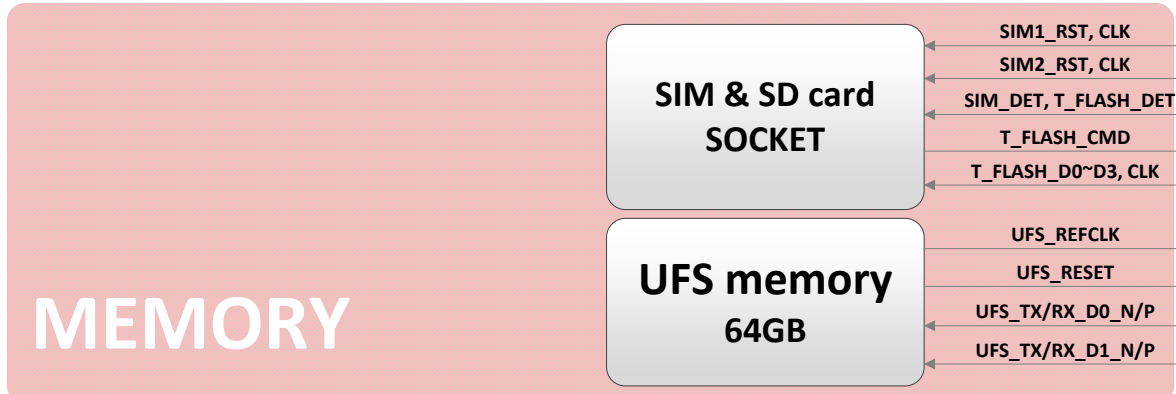


MAIN PBA SUB PBA

لينك كانال

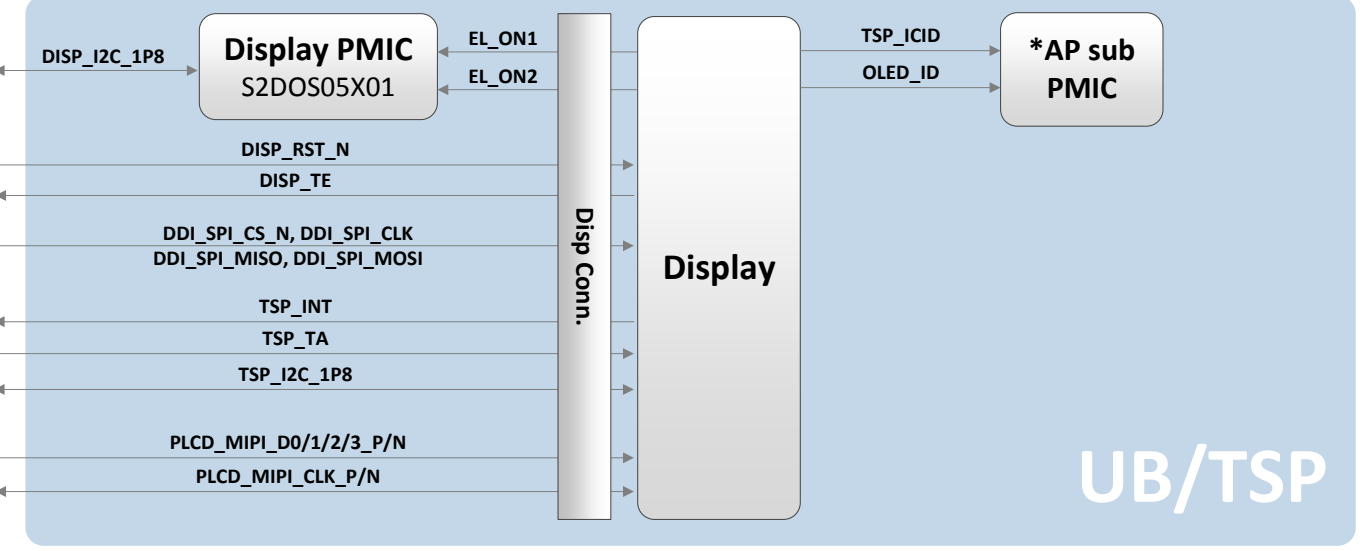
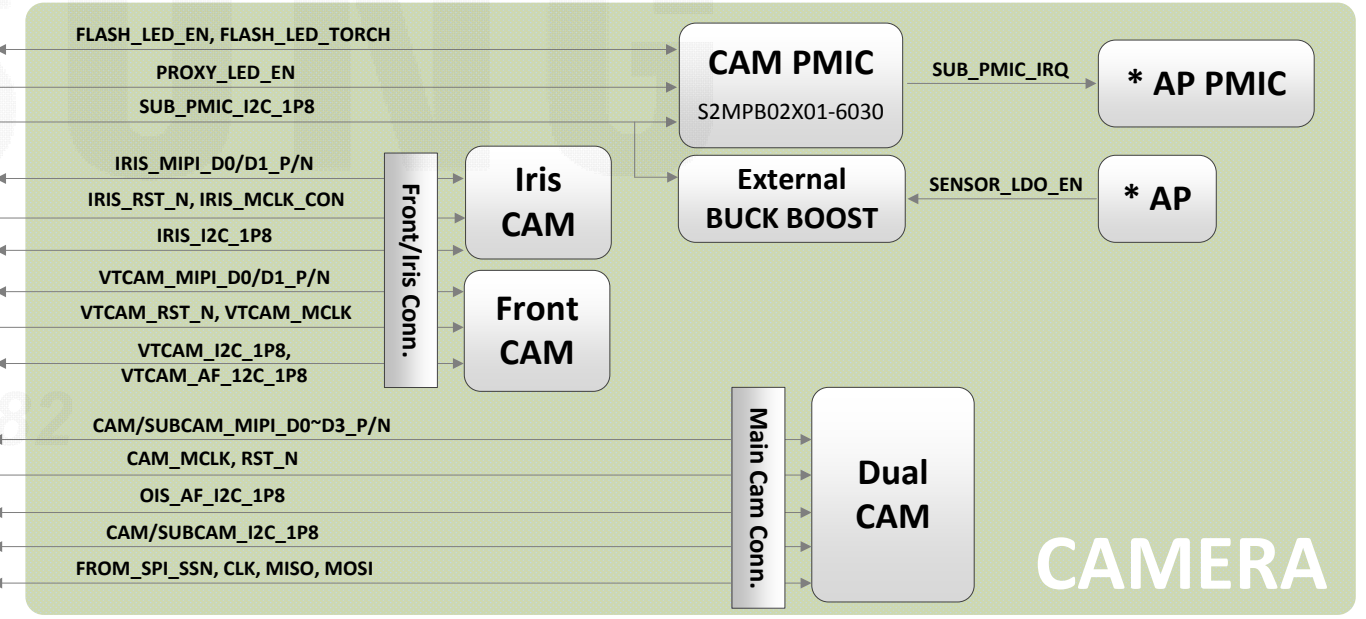
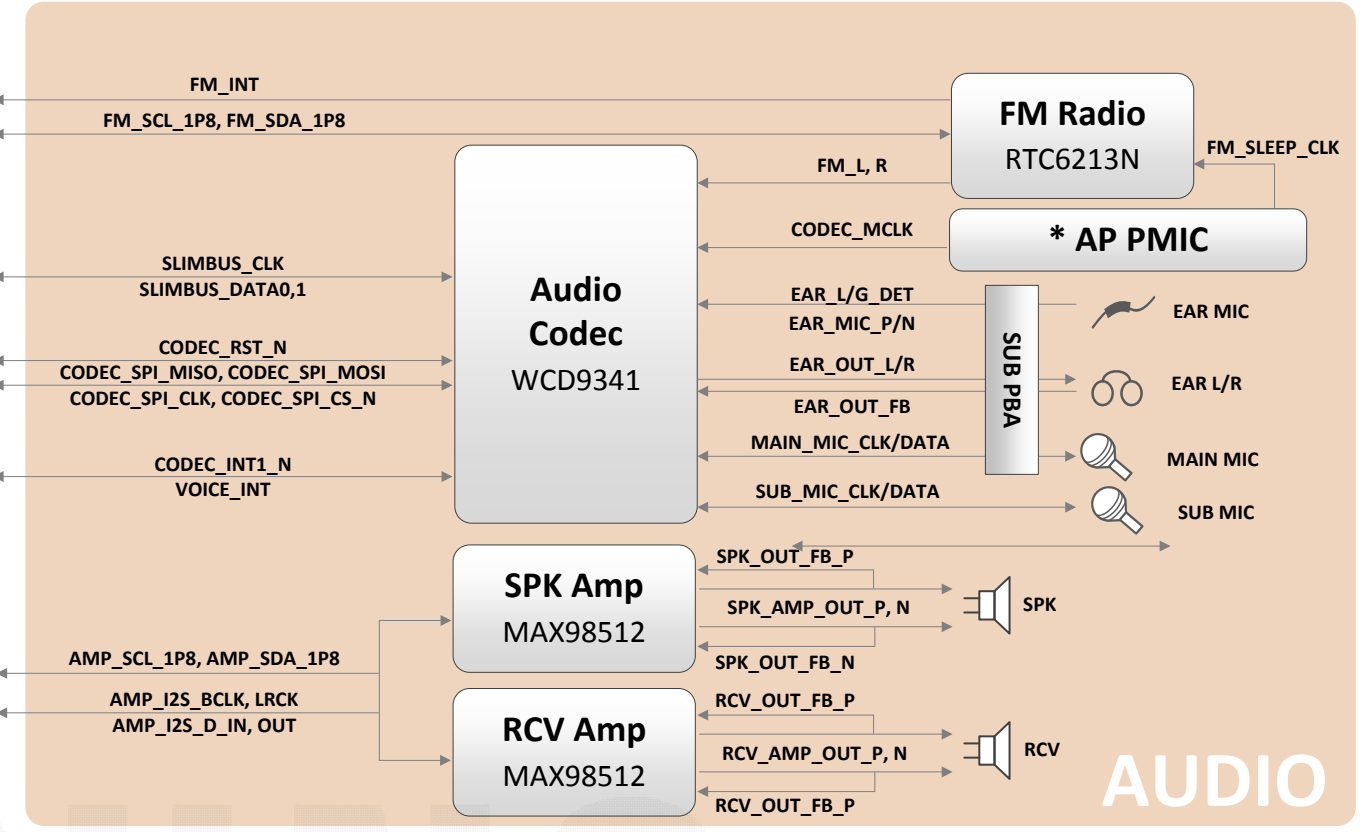
schimat @ics

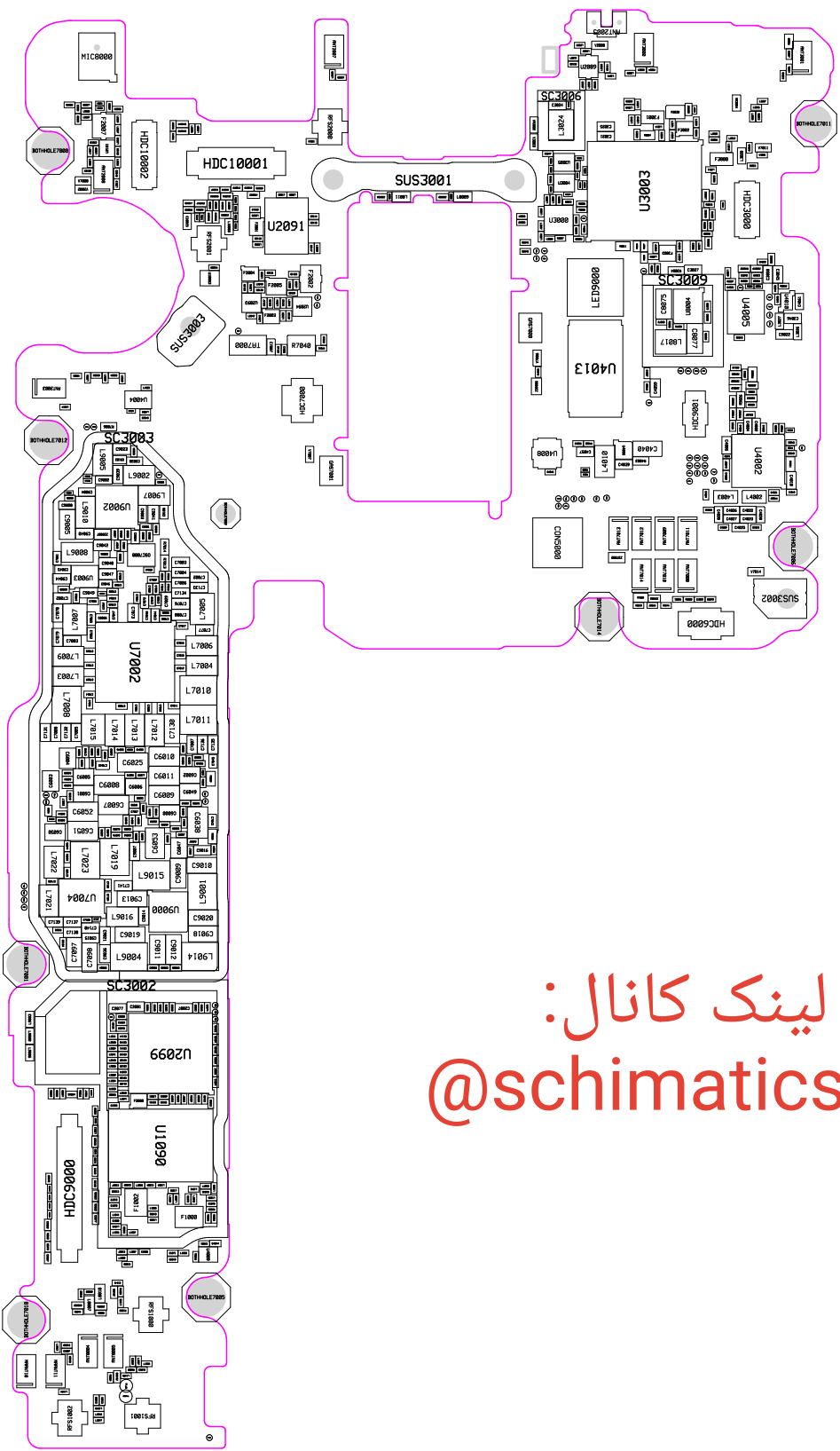
# [SM-G965U] Logic Block Diagram



**AP**  
SDM845

**POP LPDDR4x**  
SEC 6GB



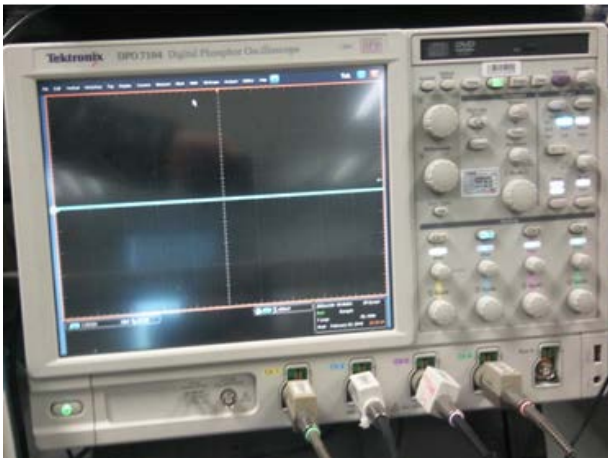


لينک کانال:  
@schimatics



8. Level 3 Repair

8-3. Flow chart of Troubleshooting.



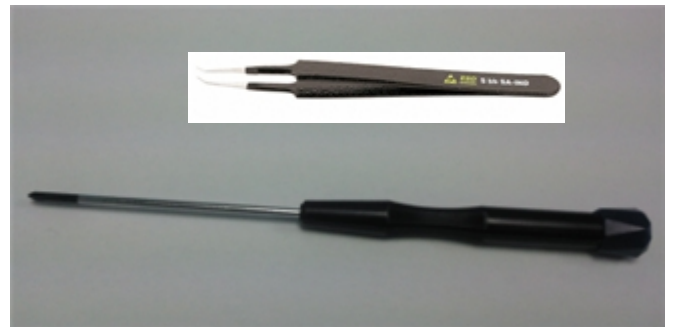
Oscilloscope



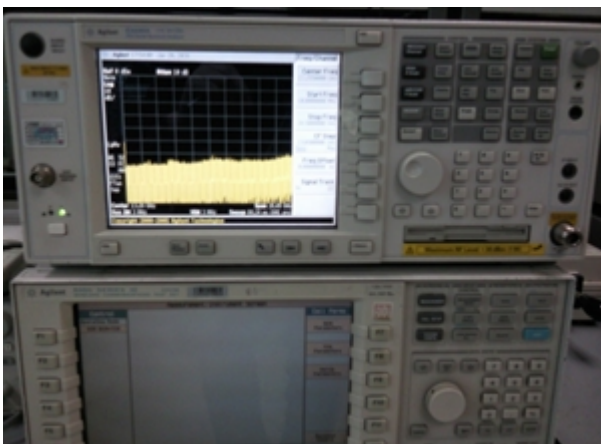
Digital Multimeter



Power Supply



+ driver, ESD Safe Tweezer



8960 & Spectrum Analyzer



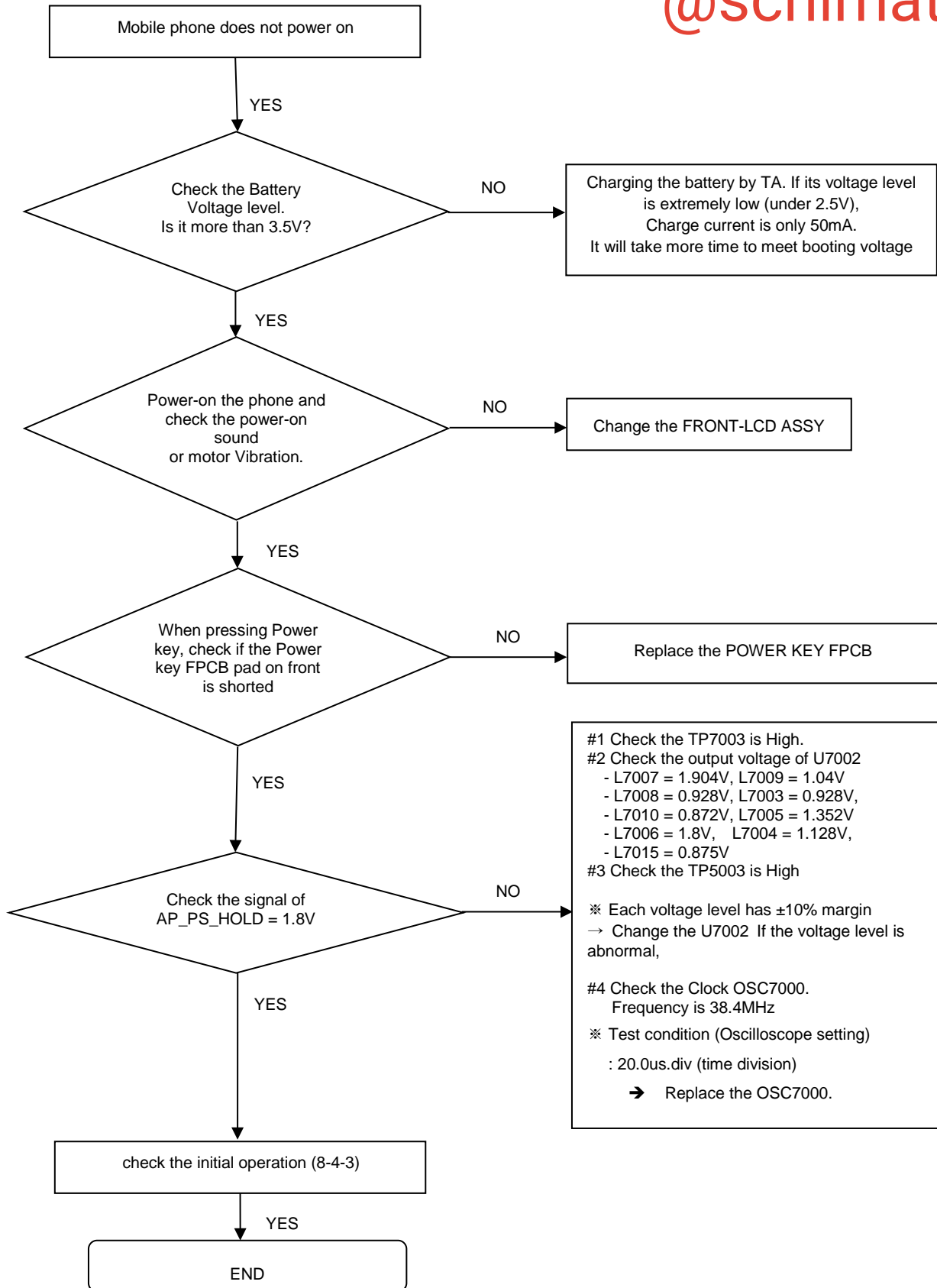
Soldering iron



## 8. Level 3 Repair

### 8-4-1. Power on

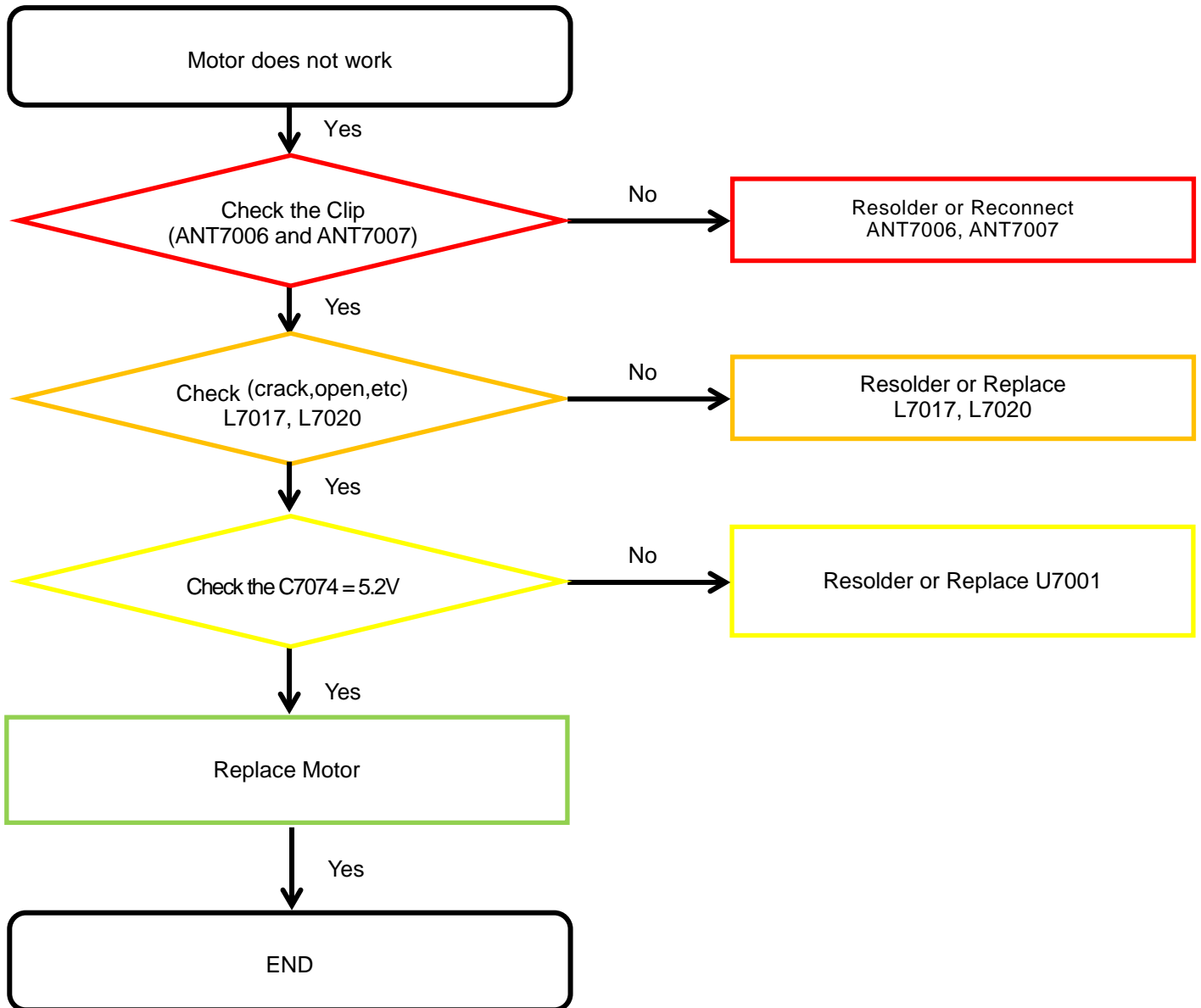
لينک کانال:  
@schimatics



## 8. Level 3 Repair

### 8-4-2. Motor

لینک کانال:  
@schimatics

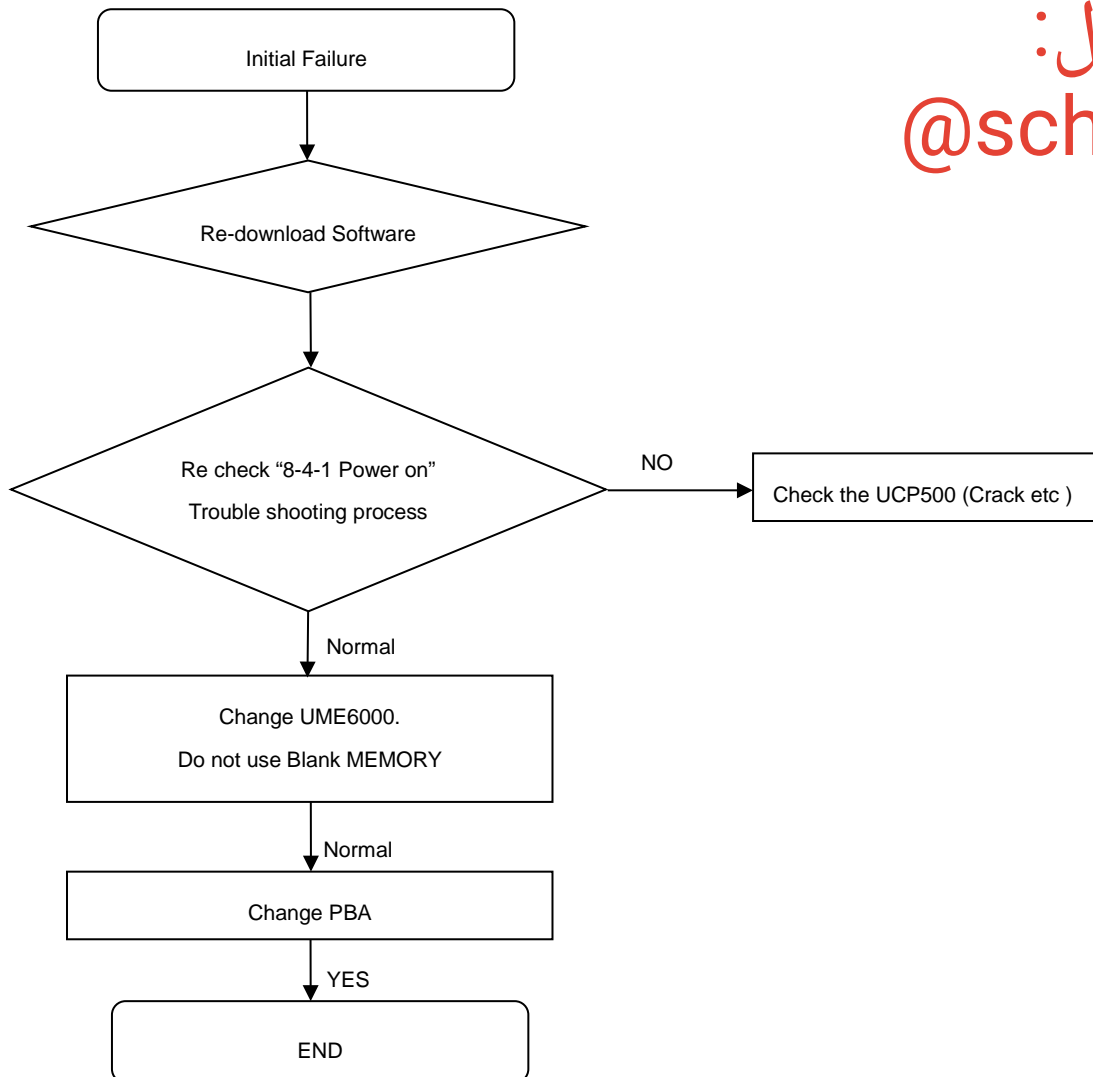


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## 8. Level 3 Repair

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### 8-4-3. initial

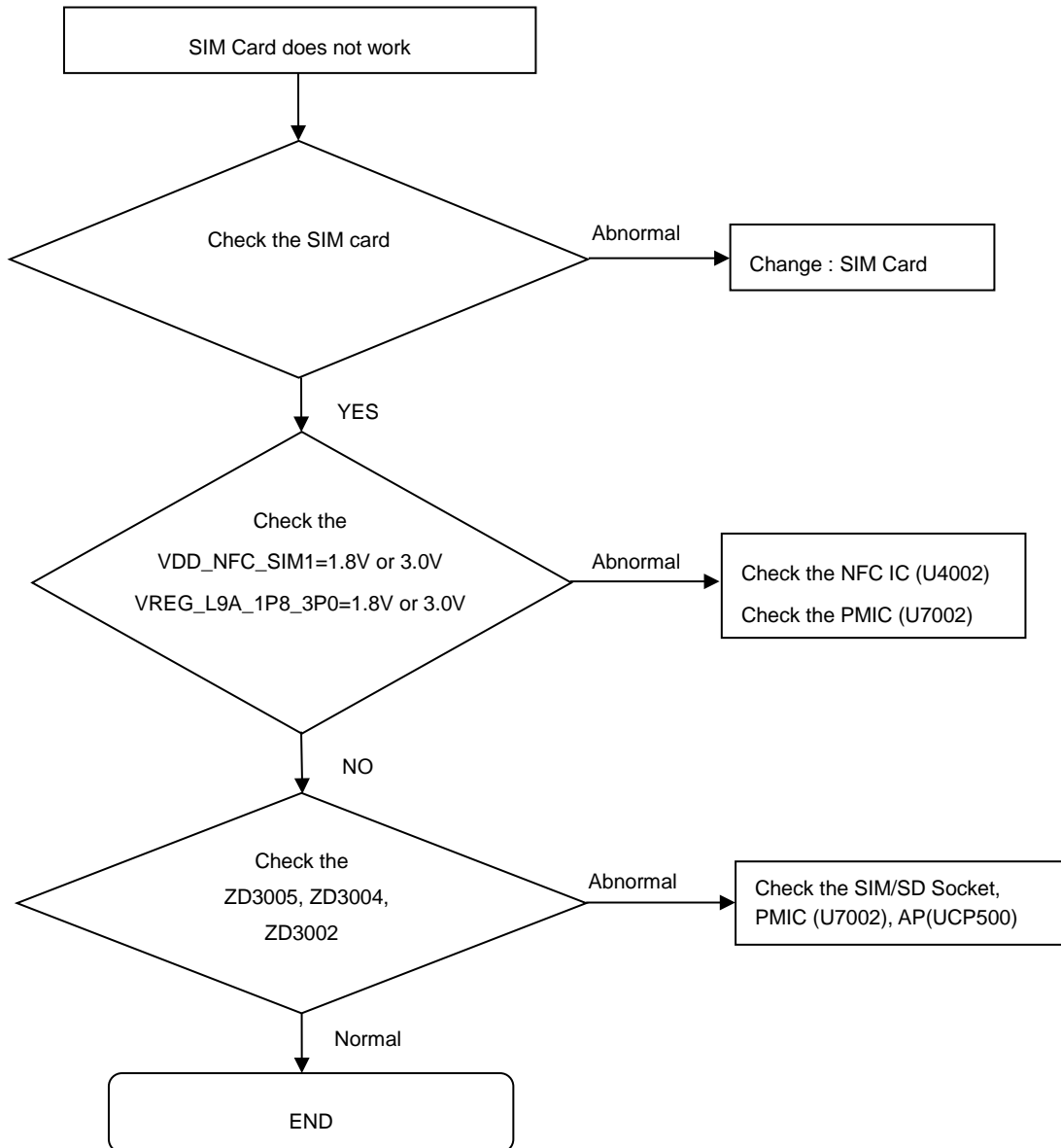


لینک کانال:  
@schimatics

## 8. Level 3 Repair

### 8-4-4. SIM PART

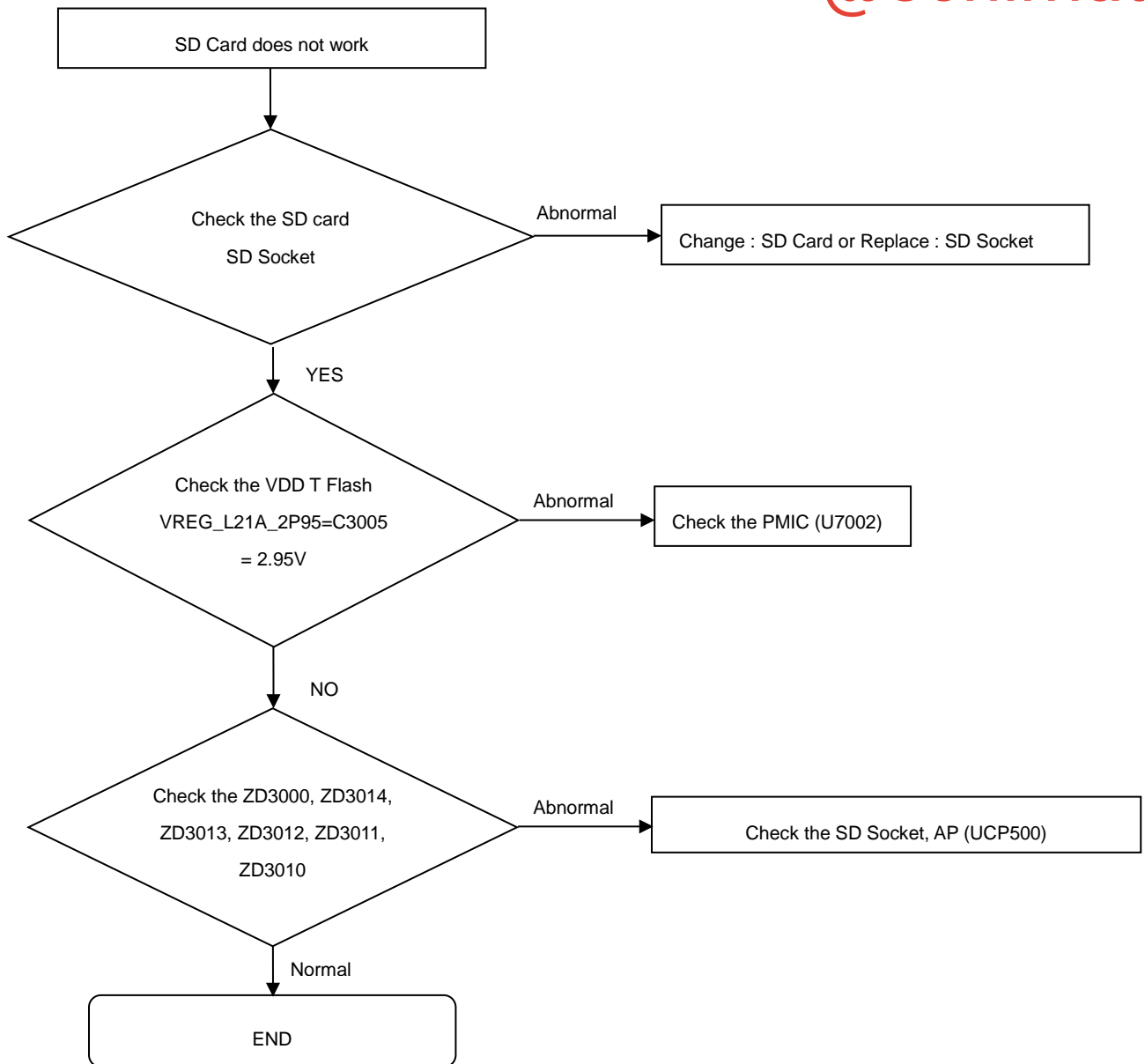
لينک کانال:  
@schimatics



## 8. Level 3 Repair

### 8-4-5. SIM/SD PART

لینک کانال:  
@schimatics

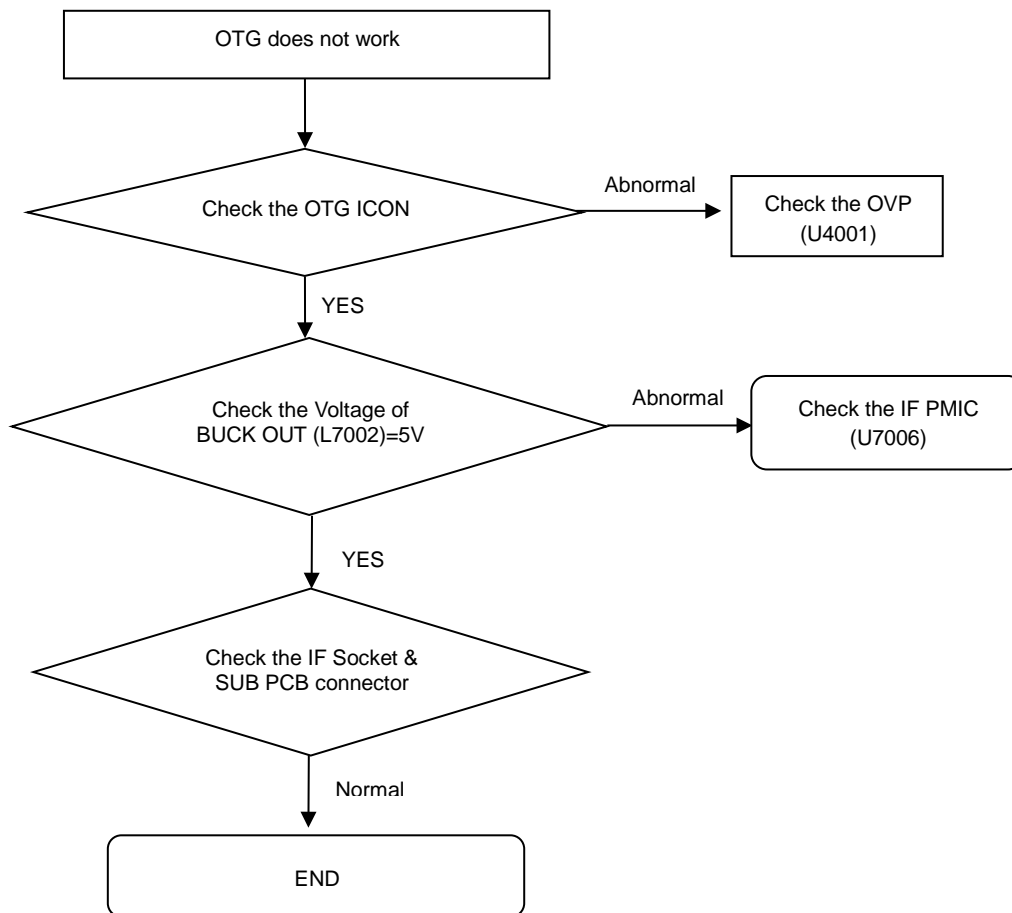


## 8. Level 3 Repair

لینک کانال:

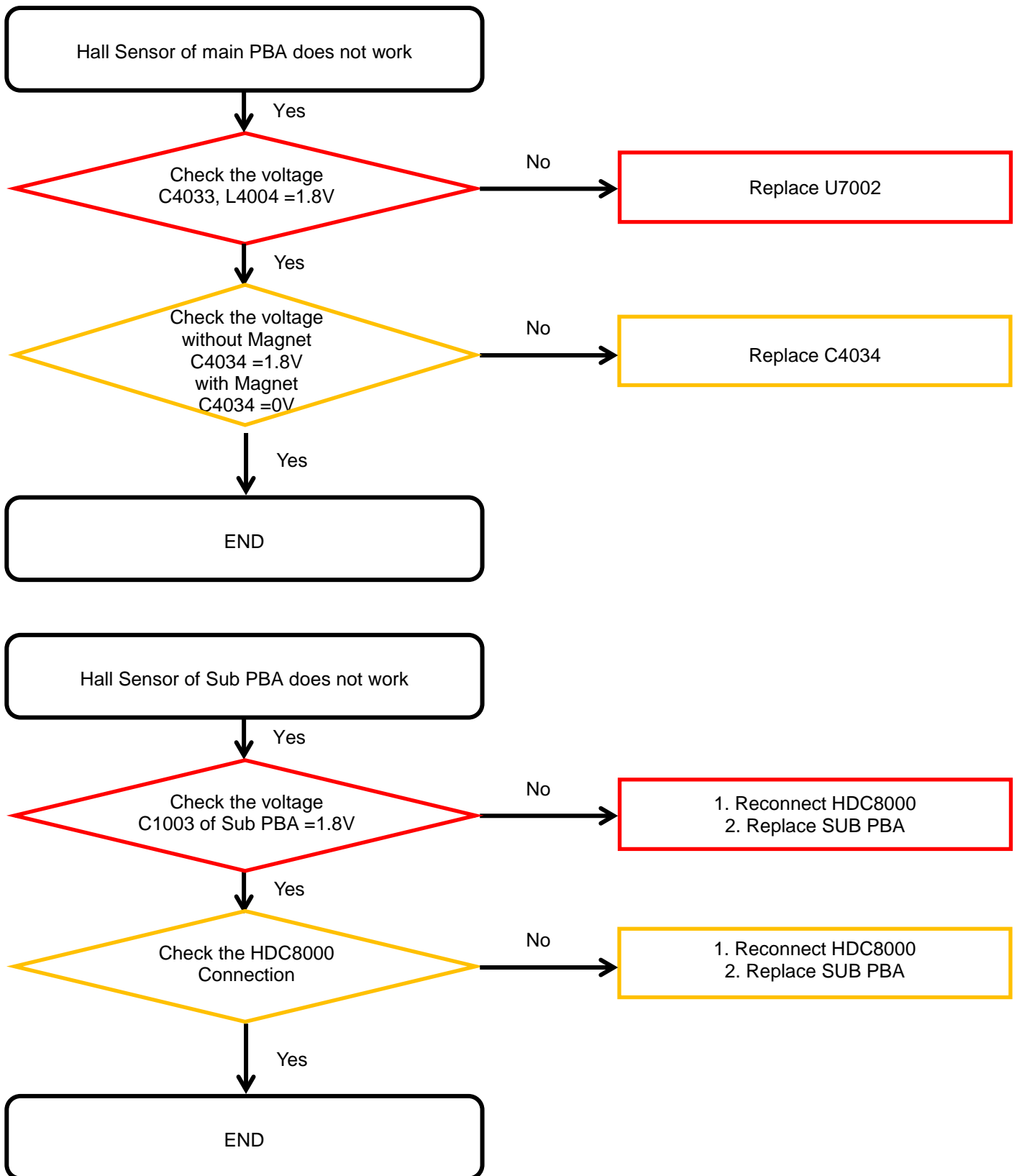
@schimatics

### 8-4-6. OTG



## 8. Level 3 Repair

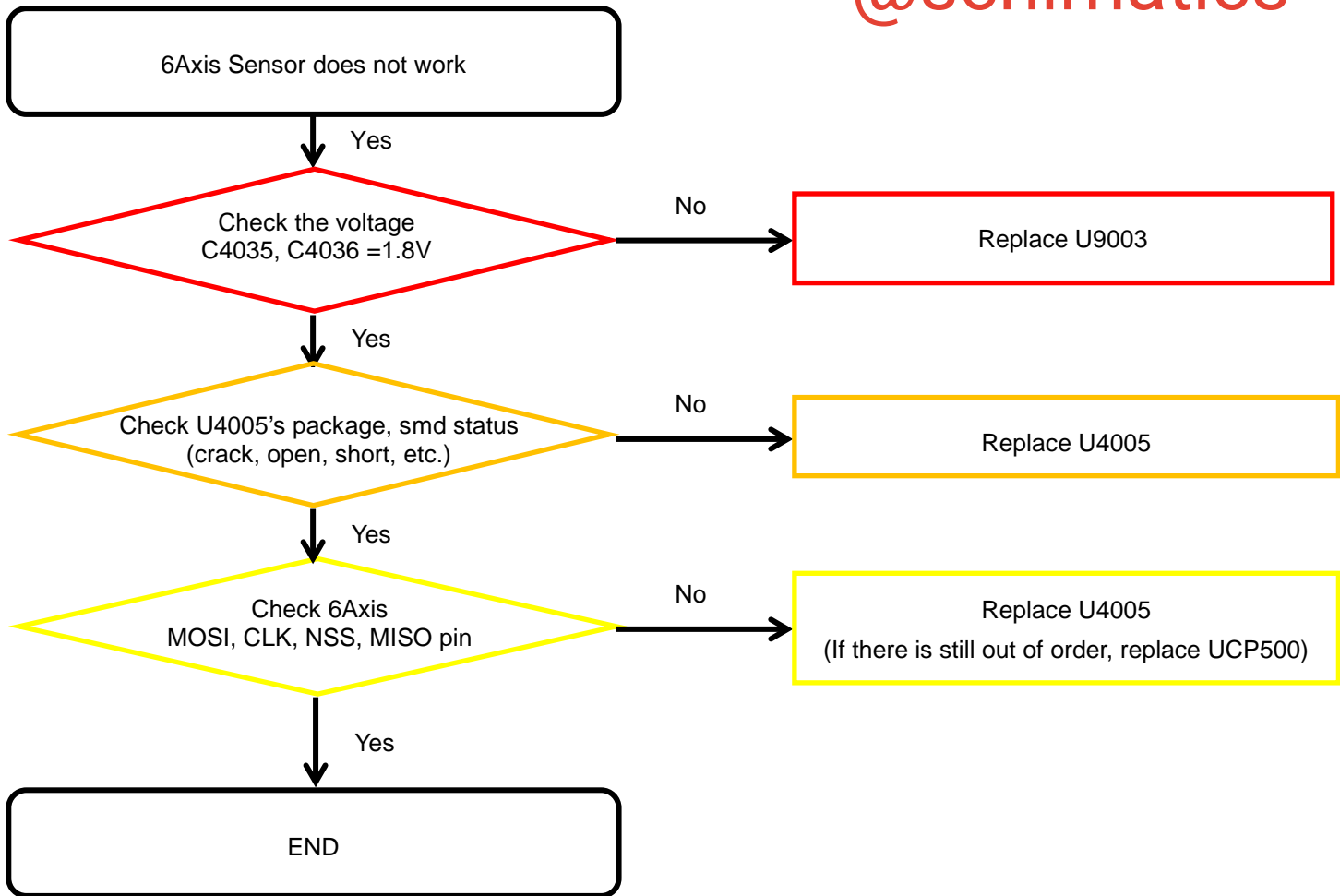
### 8-4-7. Hall IC



## 8. Level 3 Repair

### 8-4-8. 6Axis sensor

لینک کانال:  
@schimatics



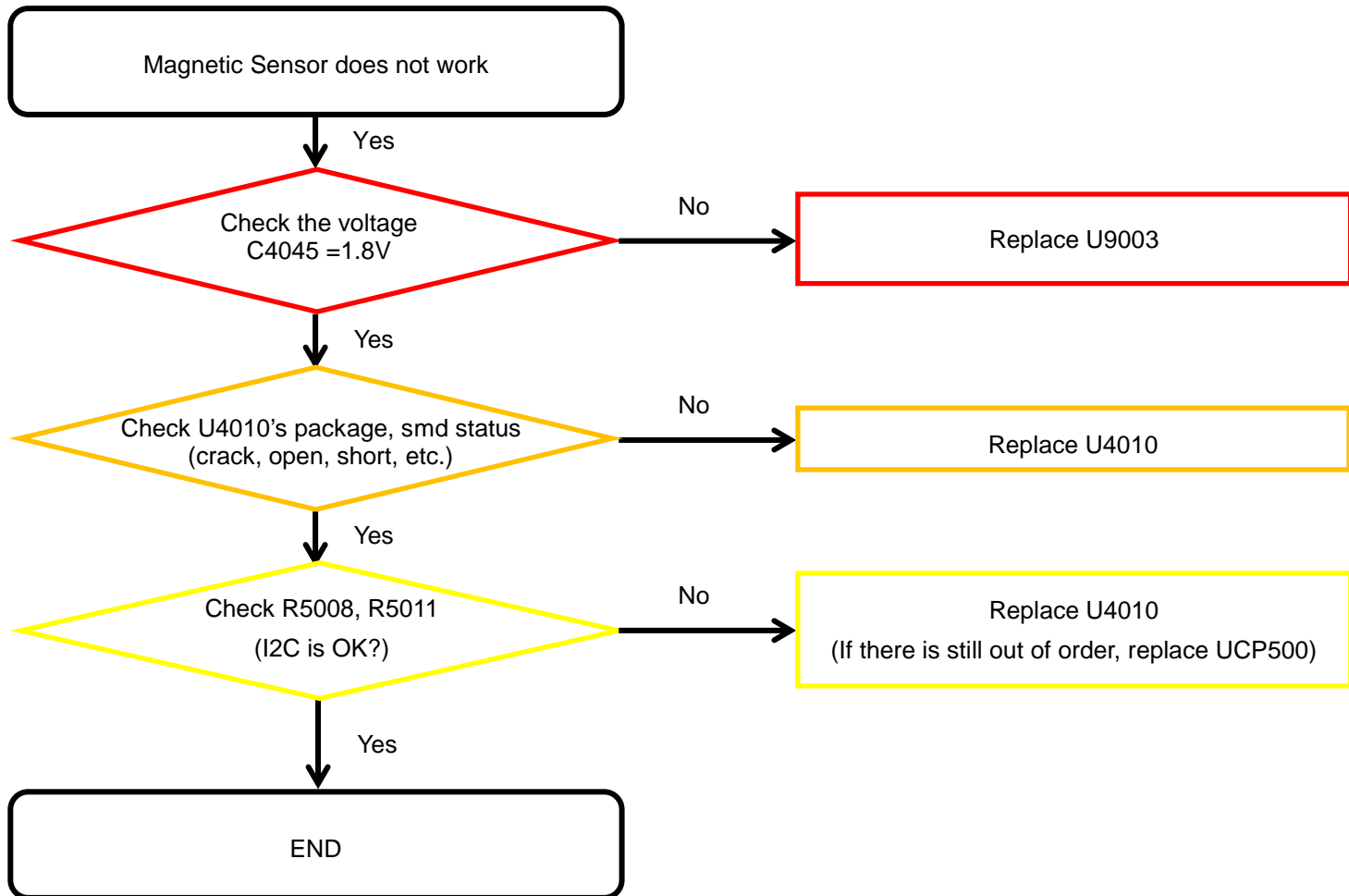


## 8. Level 3 Repair

لینک کانال:

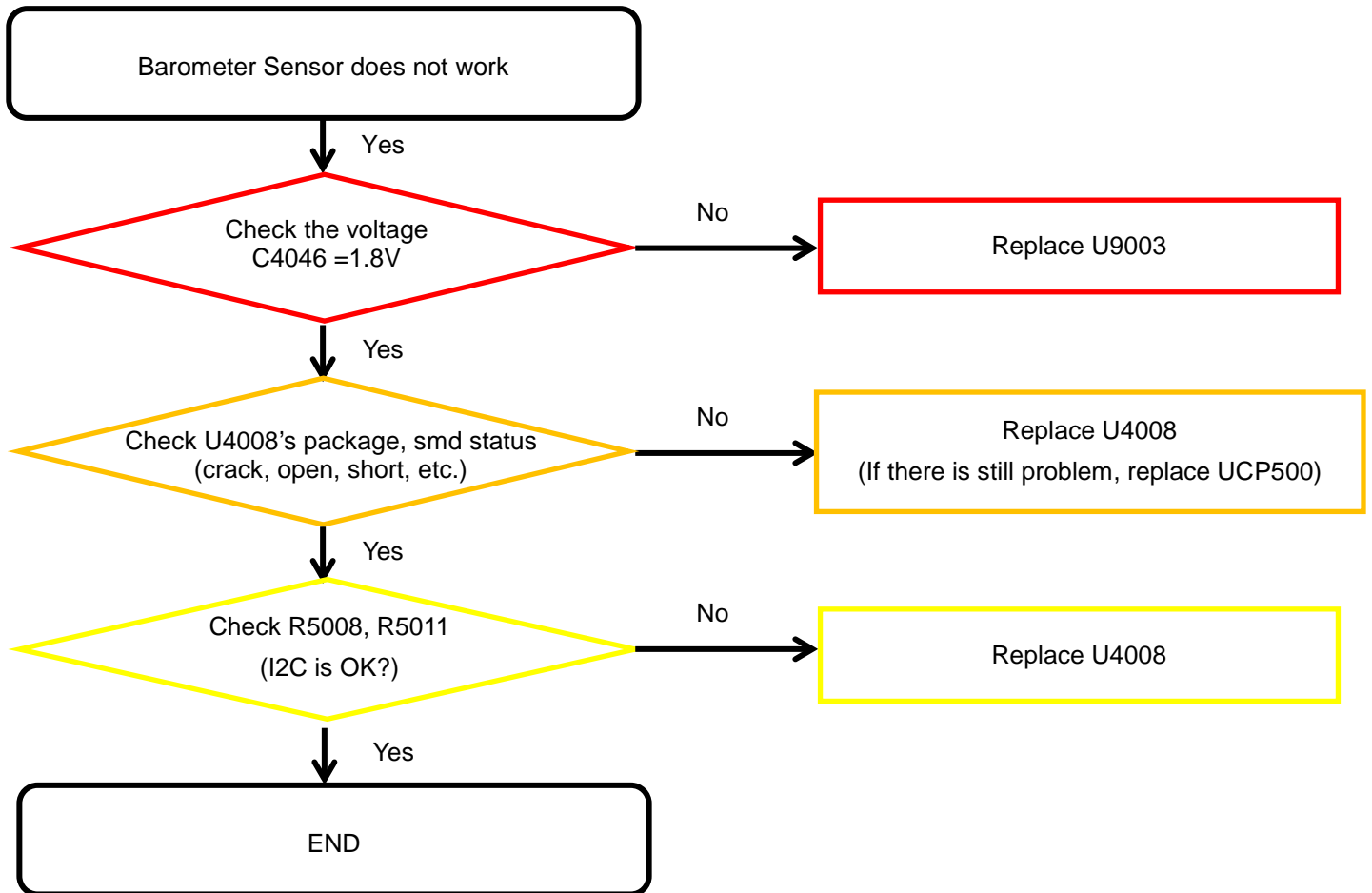
@schimatics

### 8-4-9. Magnetic sensor



## 8. Level 3 Repair

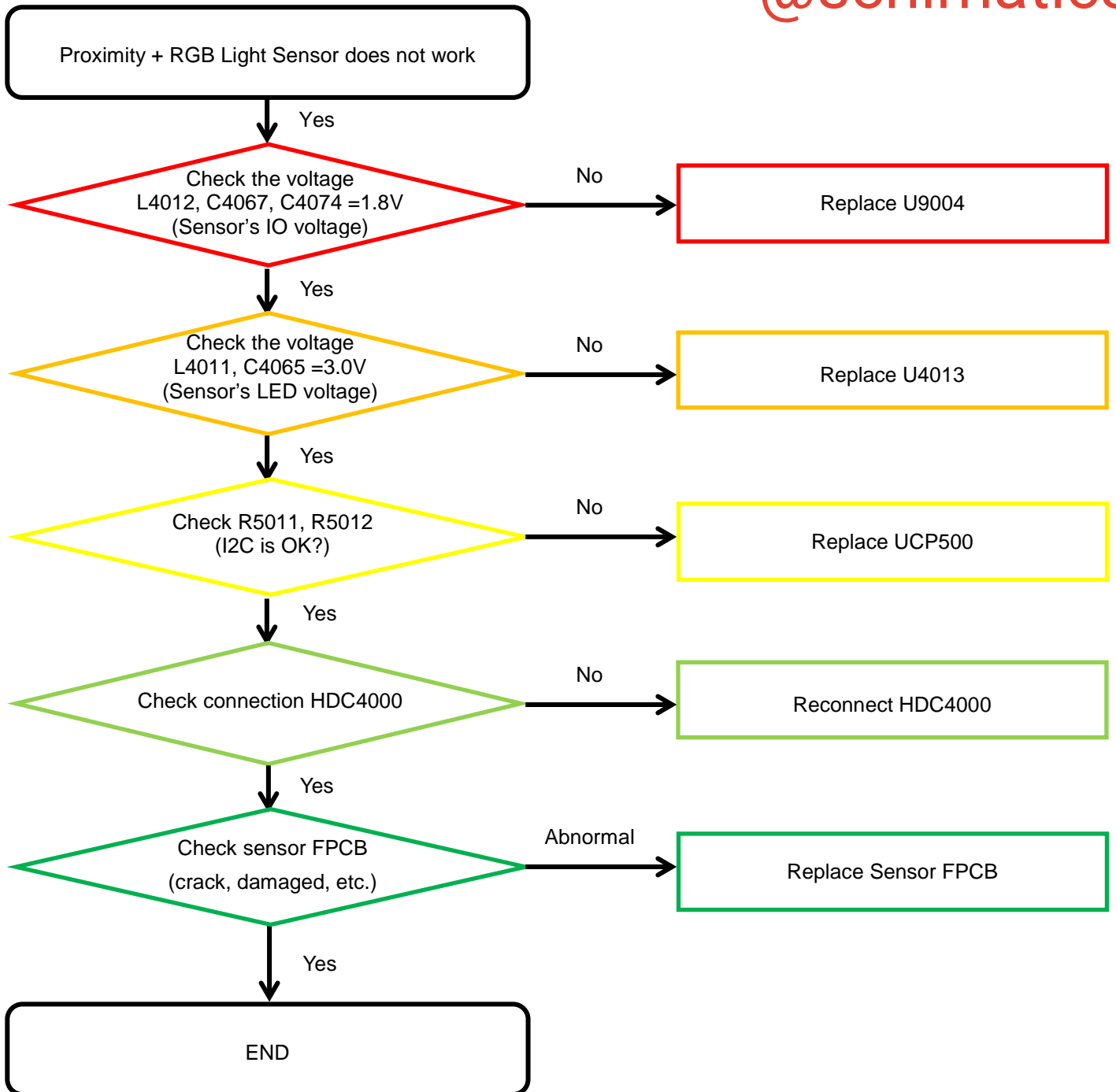
### 8-4-10. Barometer sensor



## 8. Level 3 Repair

### 8-4-11. Proximity + RGB sensor

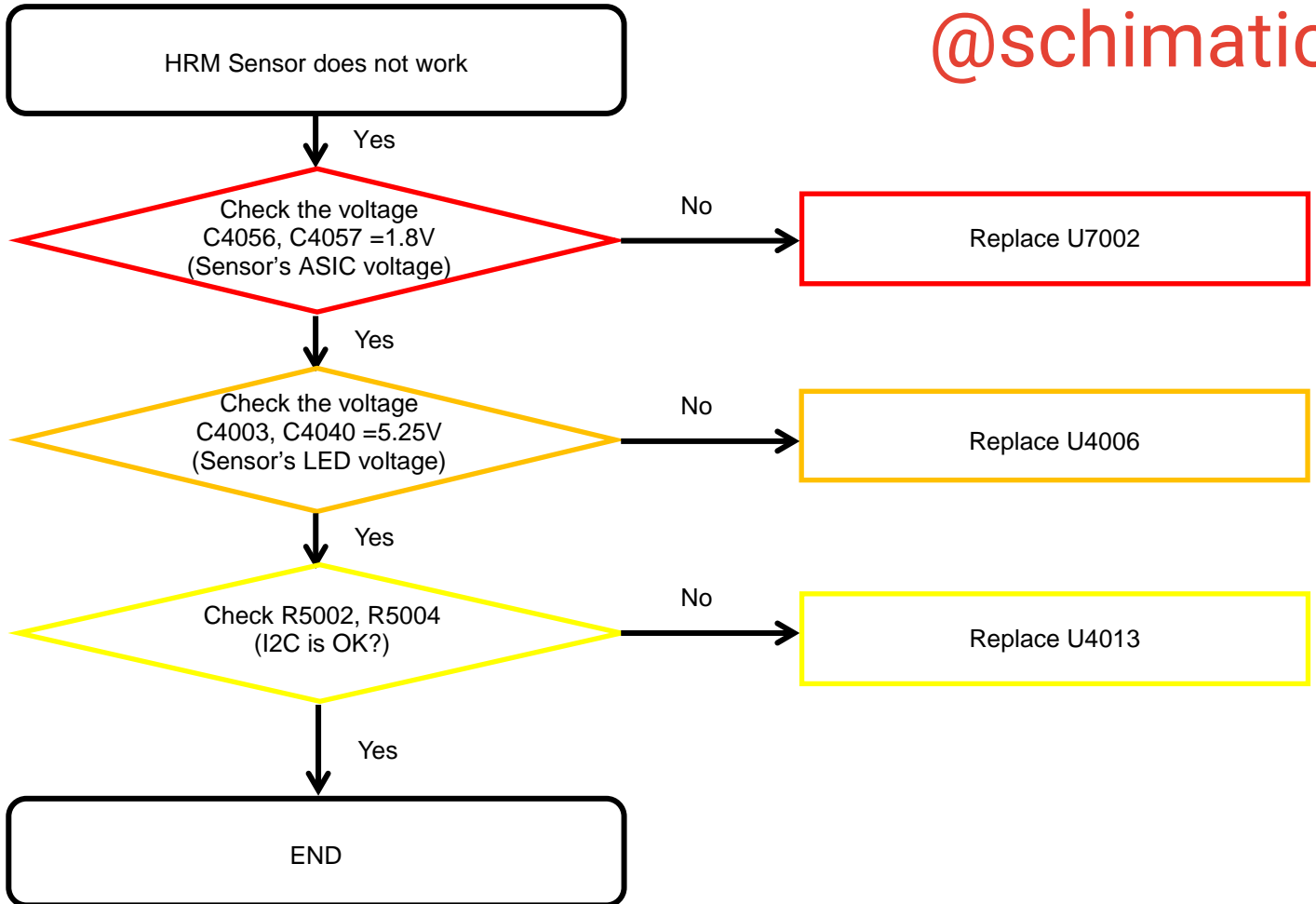
لینک کانال:  
@schimatics



## 8. Level 3 Repair

### 8-4-12. HRM sensor

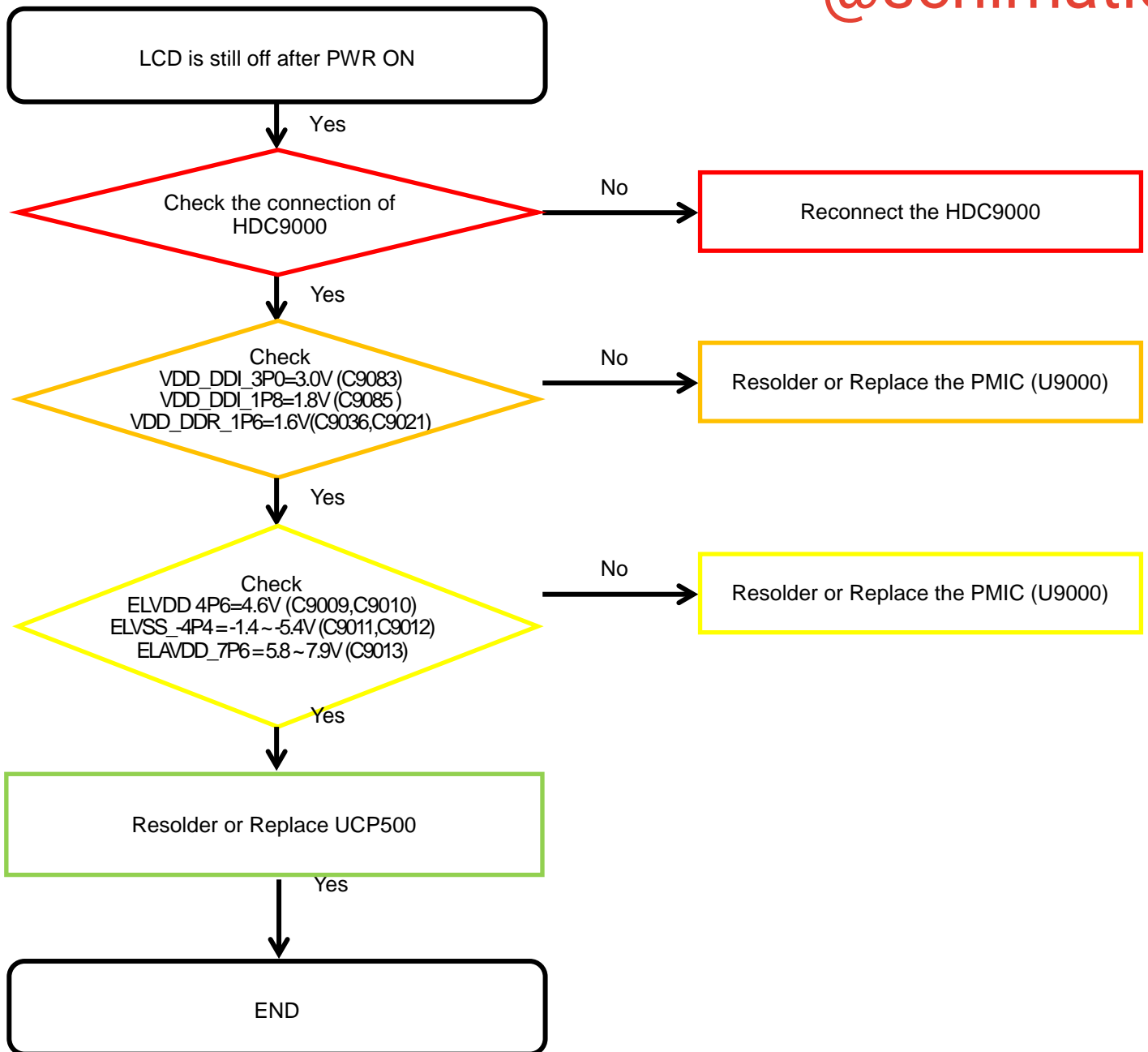
لینک کانال:  
@schimatics



## 8. Level 3 Repair

### 8-4-13. Display

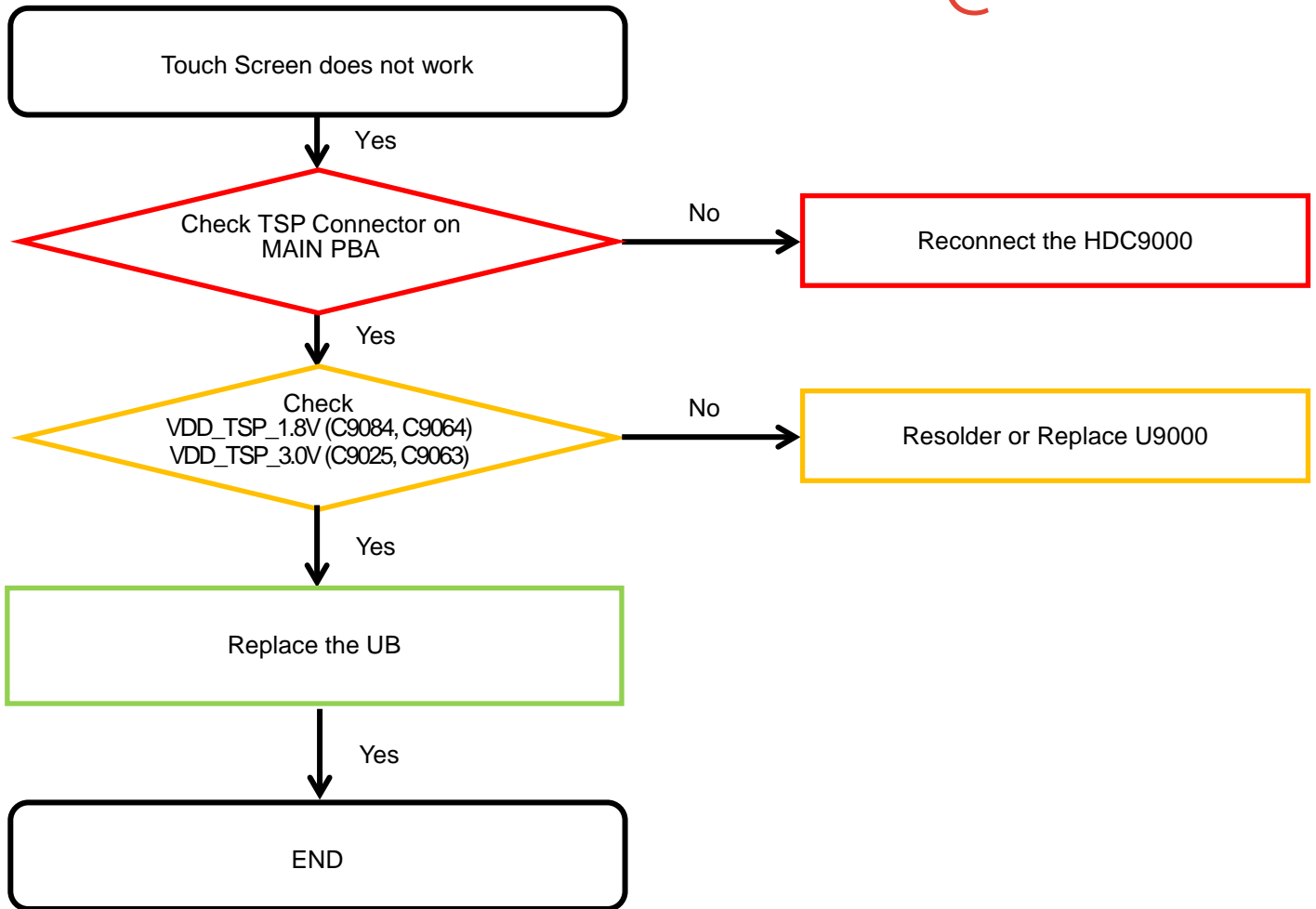
لينك كانال:  
@schimatics



## 8. Level 3 Repair

### 8-4-14. TSP

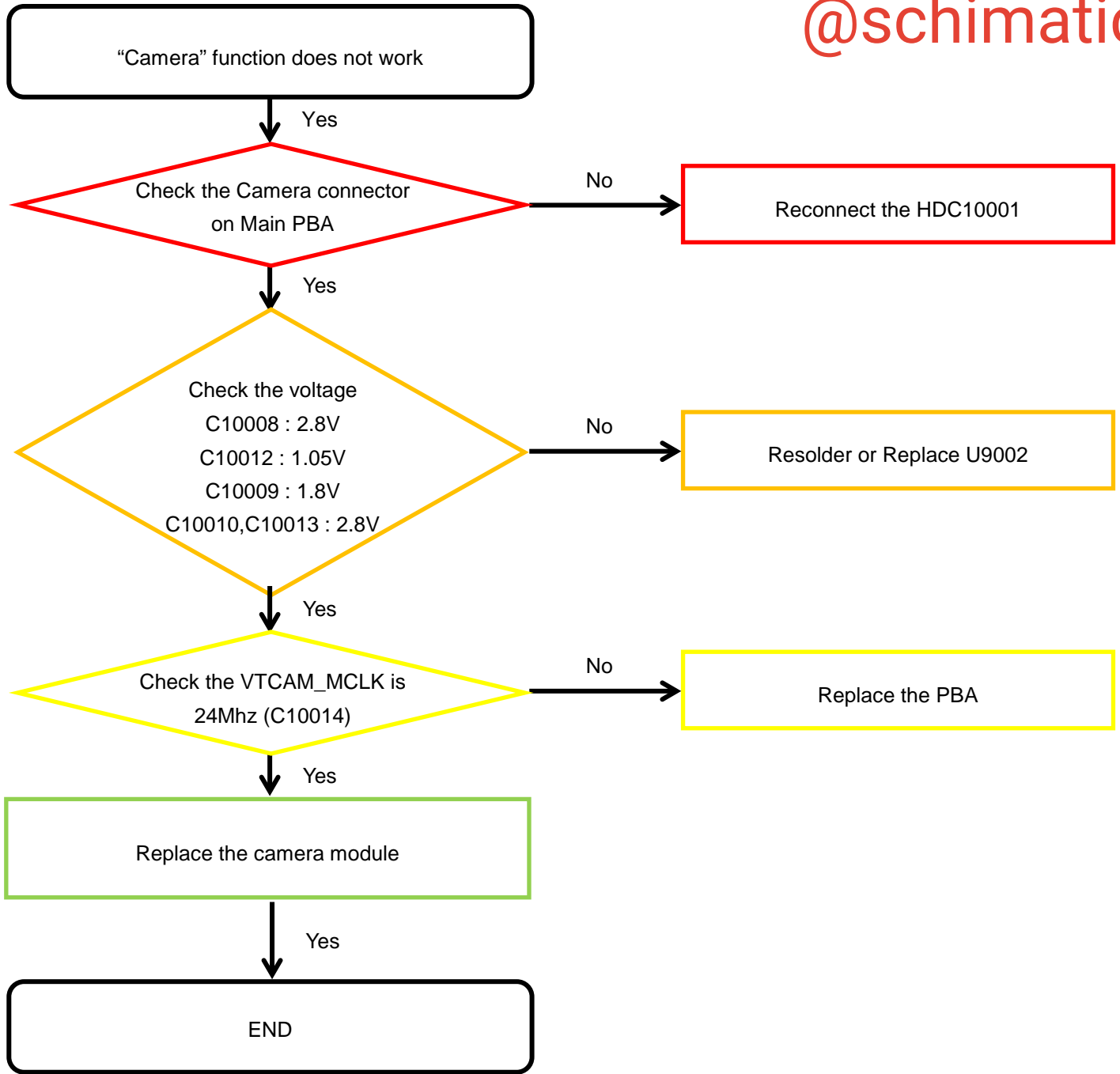
لينك كانال:  
@schimatics



## 8. Level 3 Repair

### 8-4-15. VT CAMERA

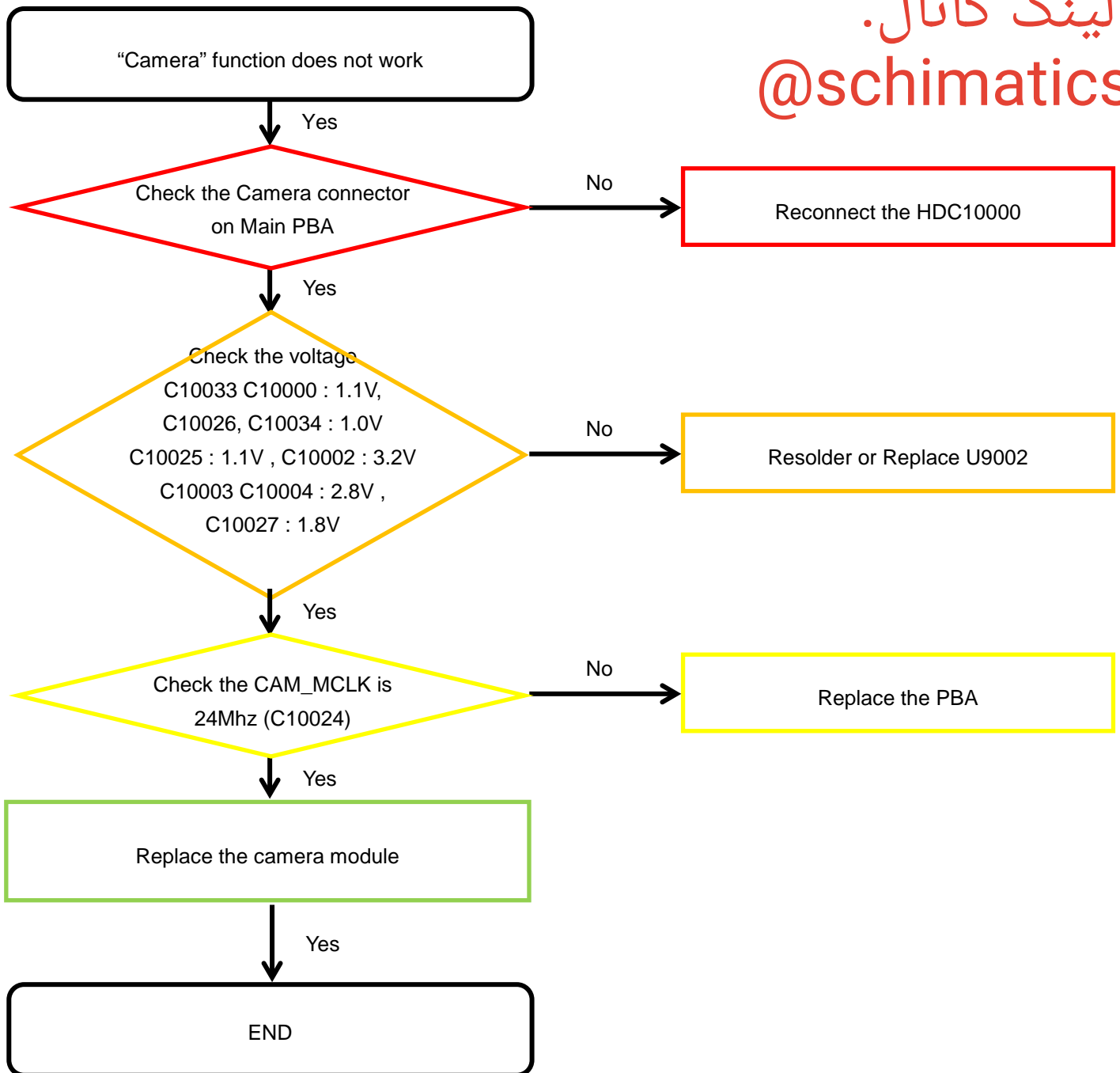
لینک کانال:  
@schimatics



## 8. Level 3 Repair

### 8-4-16. 12M CAMERA

لینک کانال:  
@schimatics

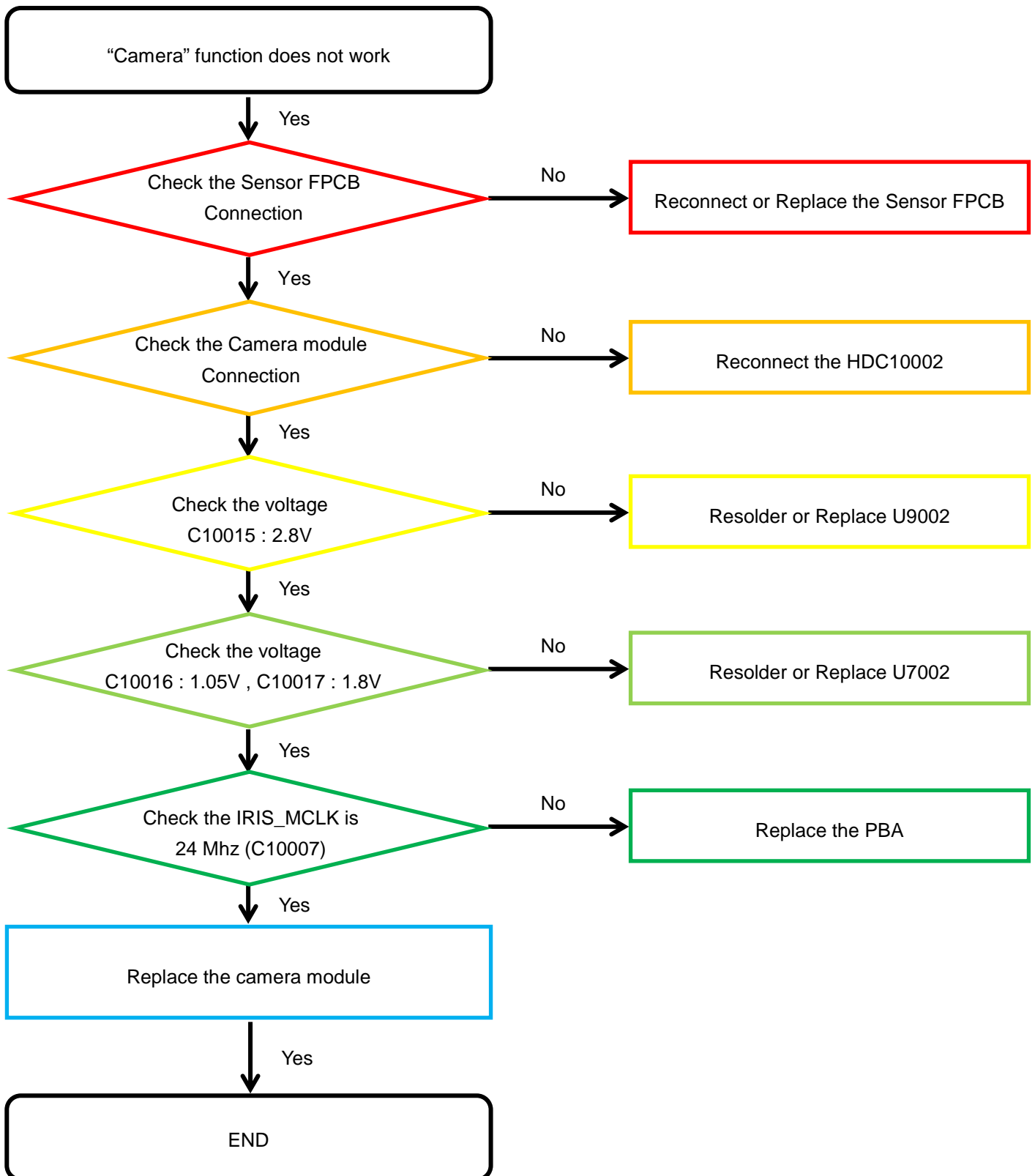




## 8. Level 3 Repair

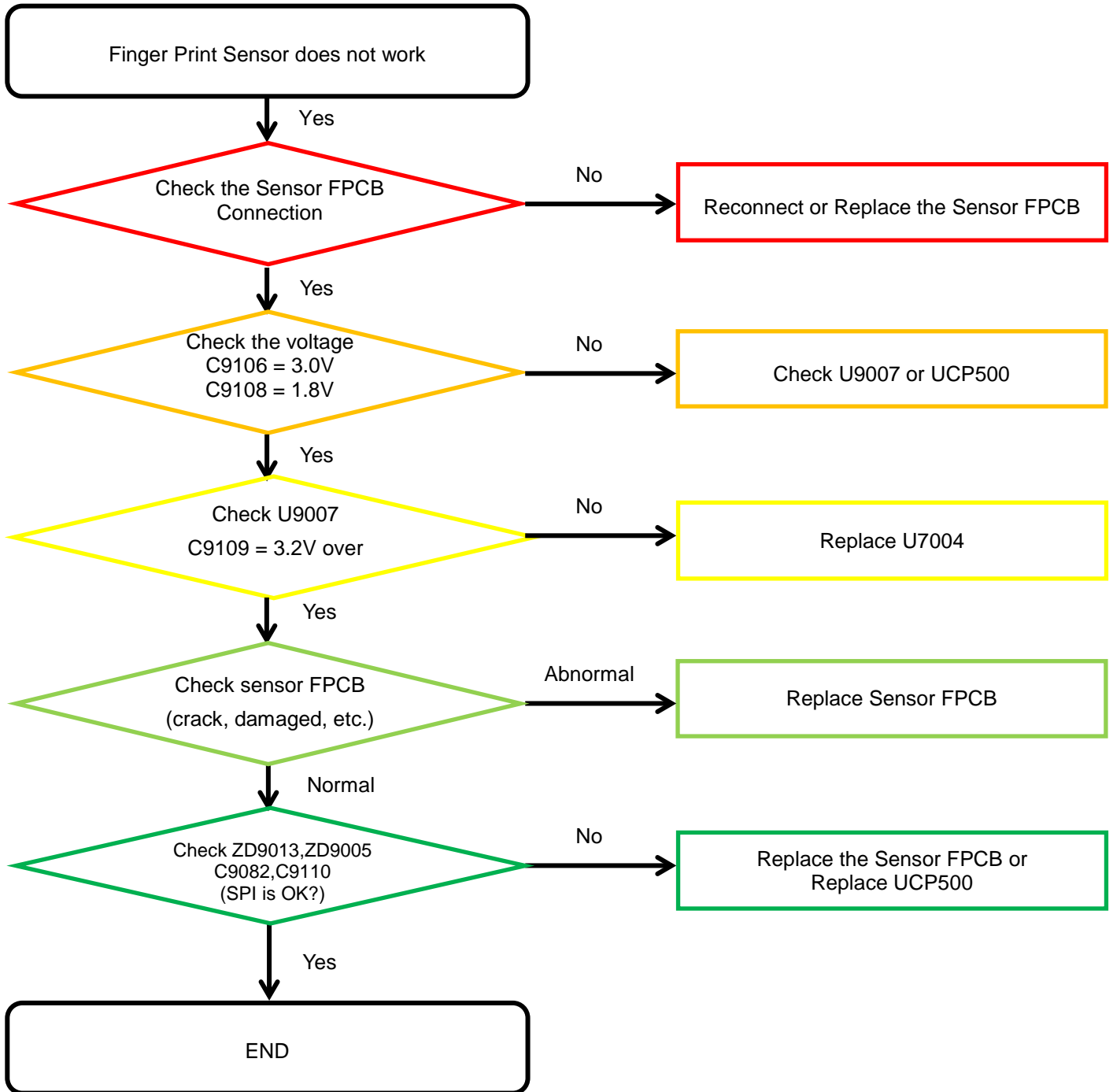
### 8-4-17. IRIS CAMERA

لینک کانال:  
@schimatics



## 8. Level 3 Repair

### 8-4-18. Finger Print

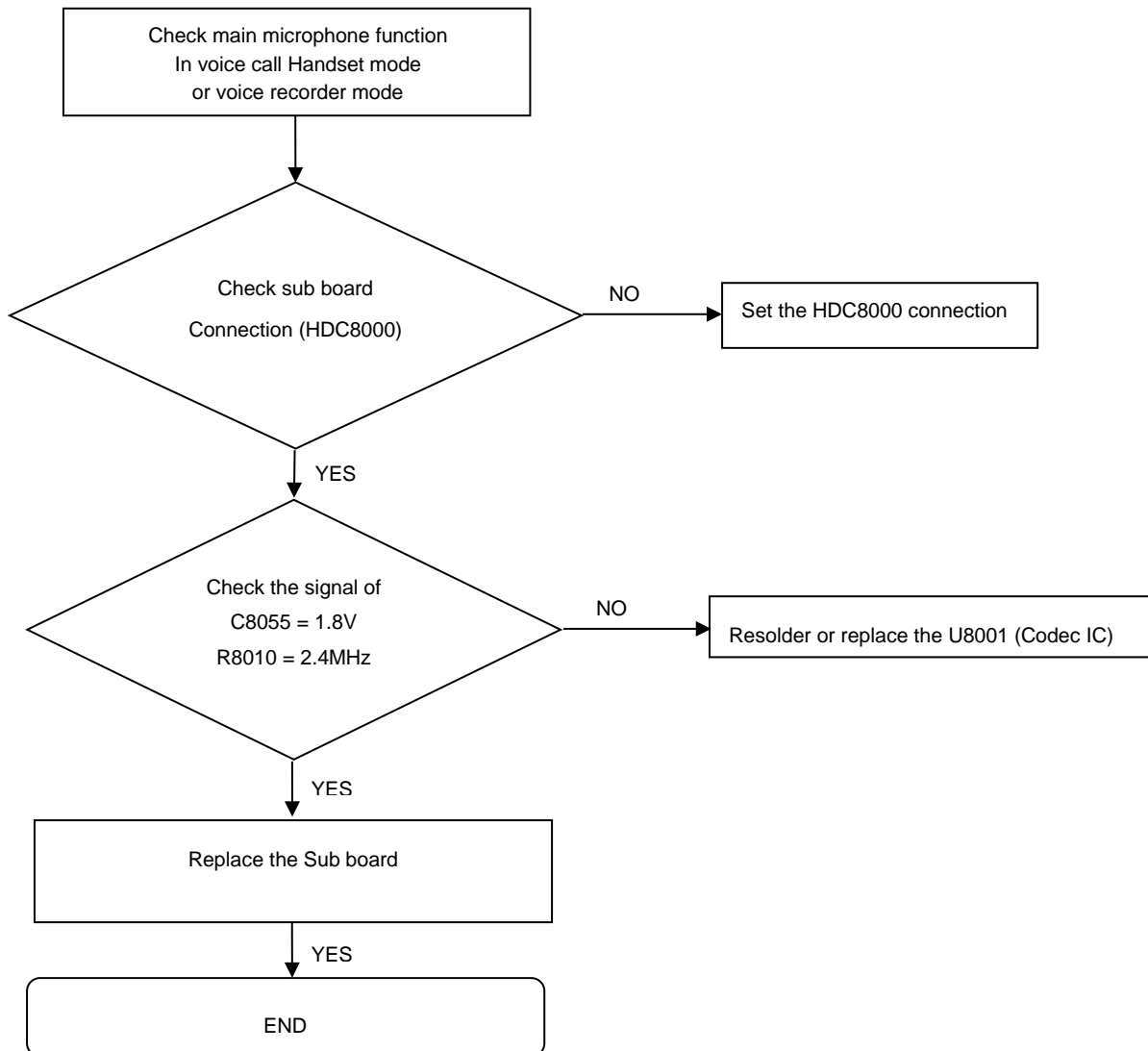


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## 8. Level 3 Repair

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### 8-4-19-1. Main MIC

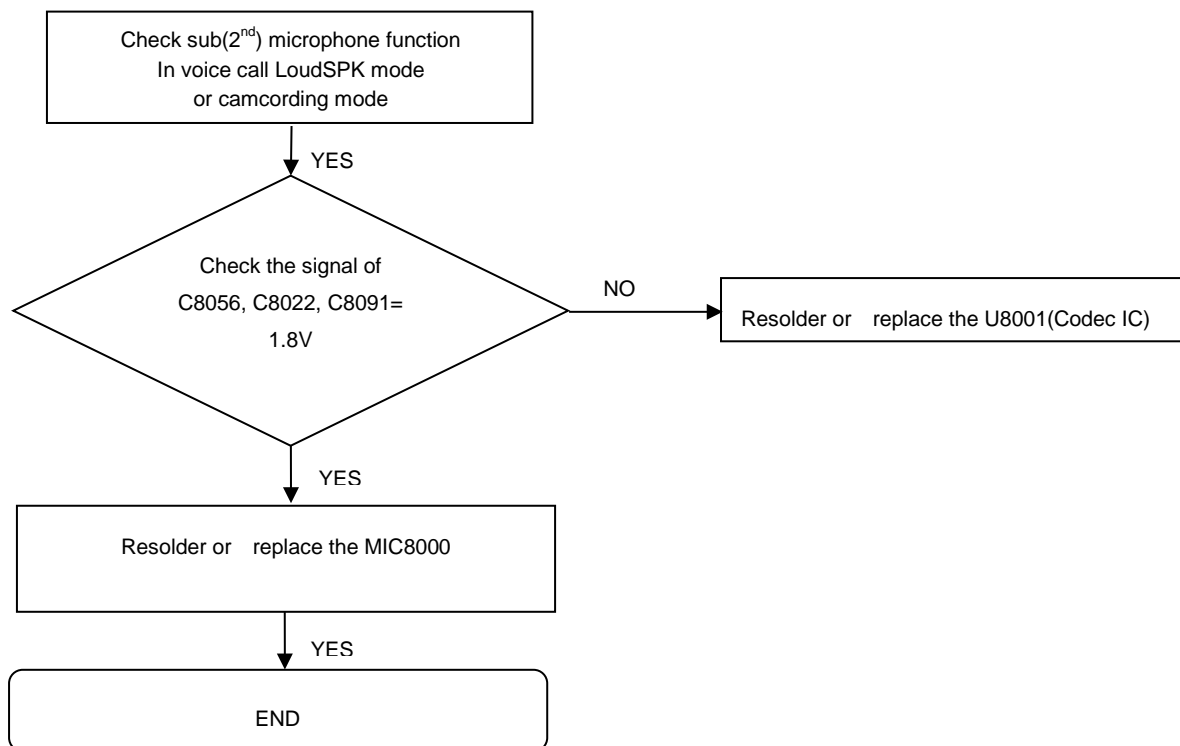


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## 8. Level 3 Repair

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### 8-4-19-2. Sub(2<sup>nd</sup>) MIC

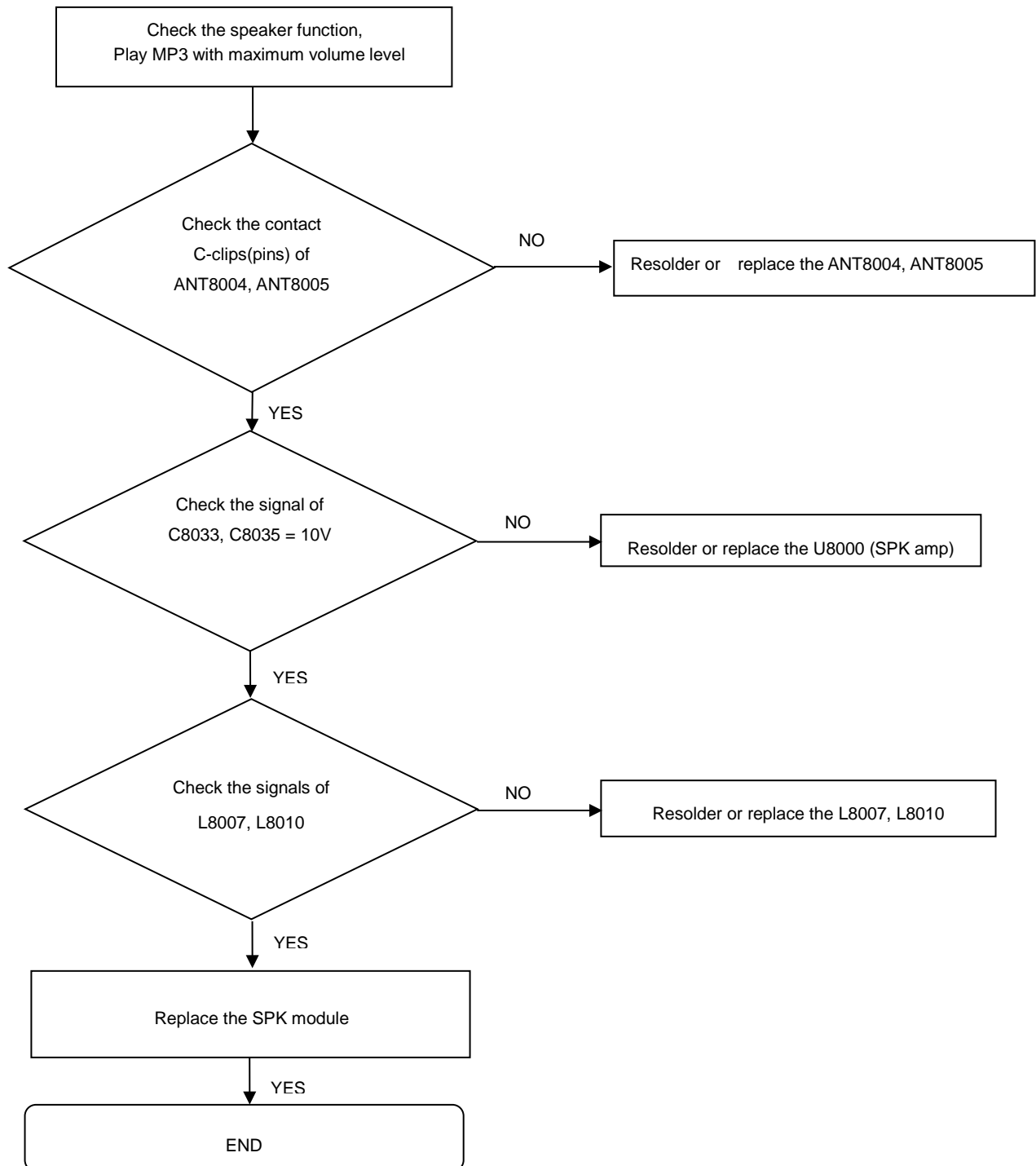


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## 8. Level 3 Repair

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### 8-4-20. Speaker part

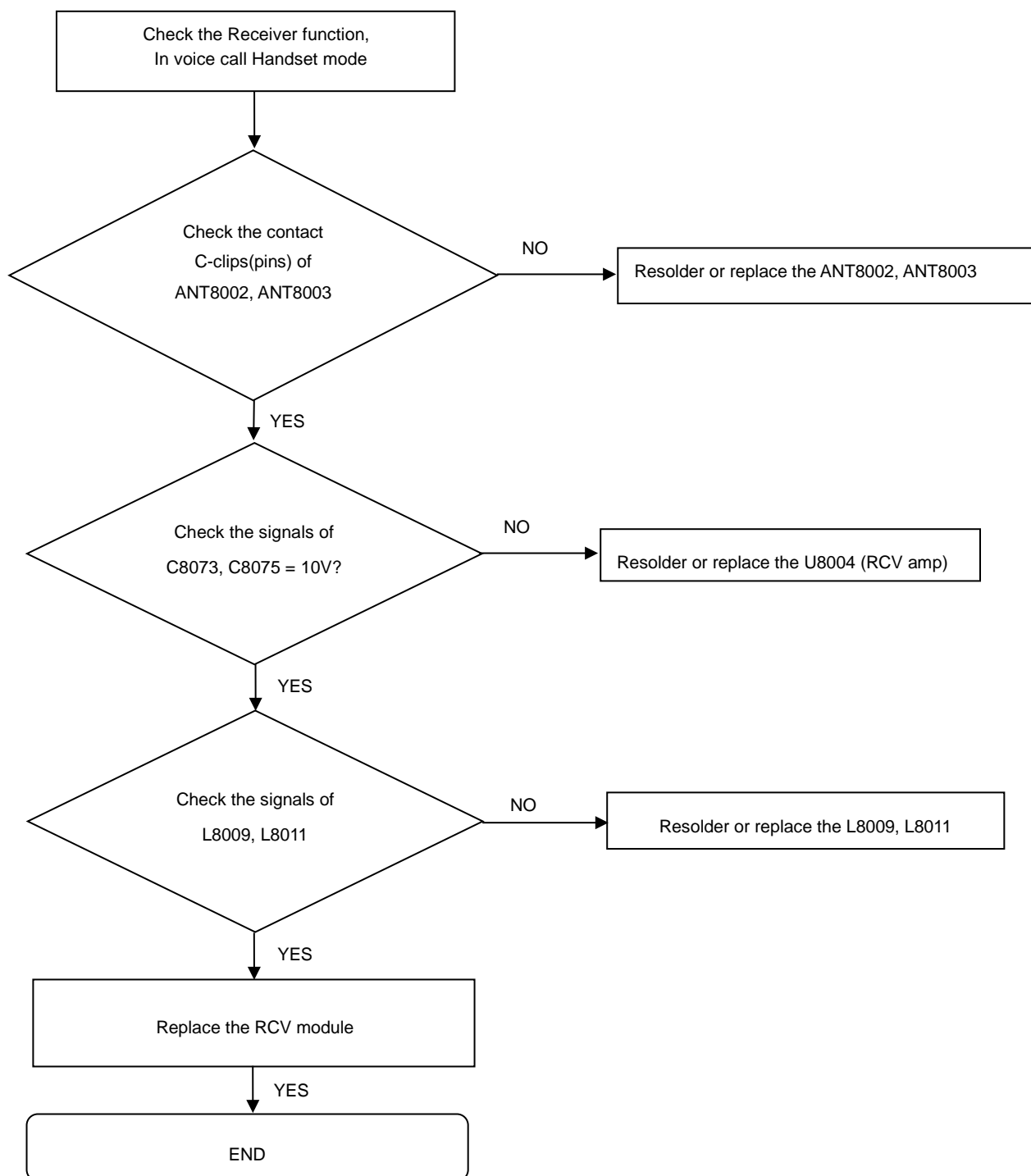


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## 8. Level 3 Repair

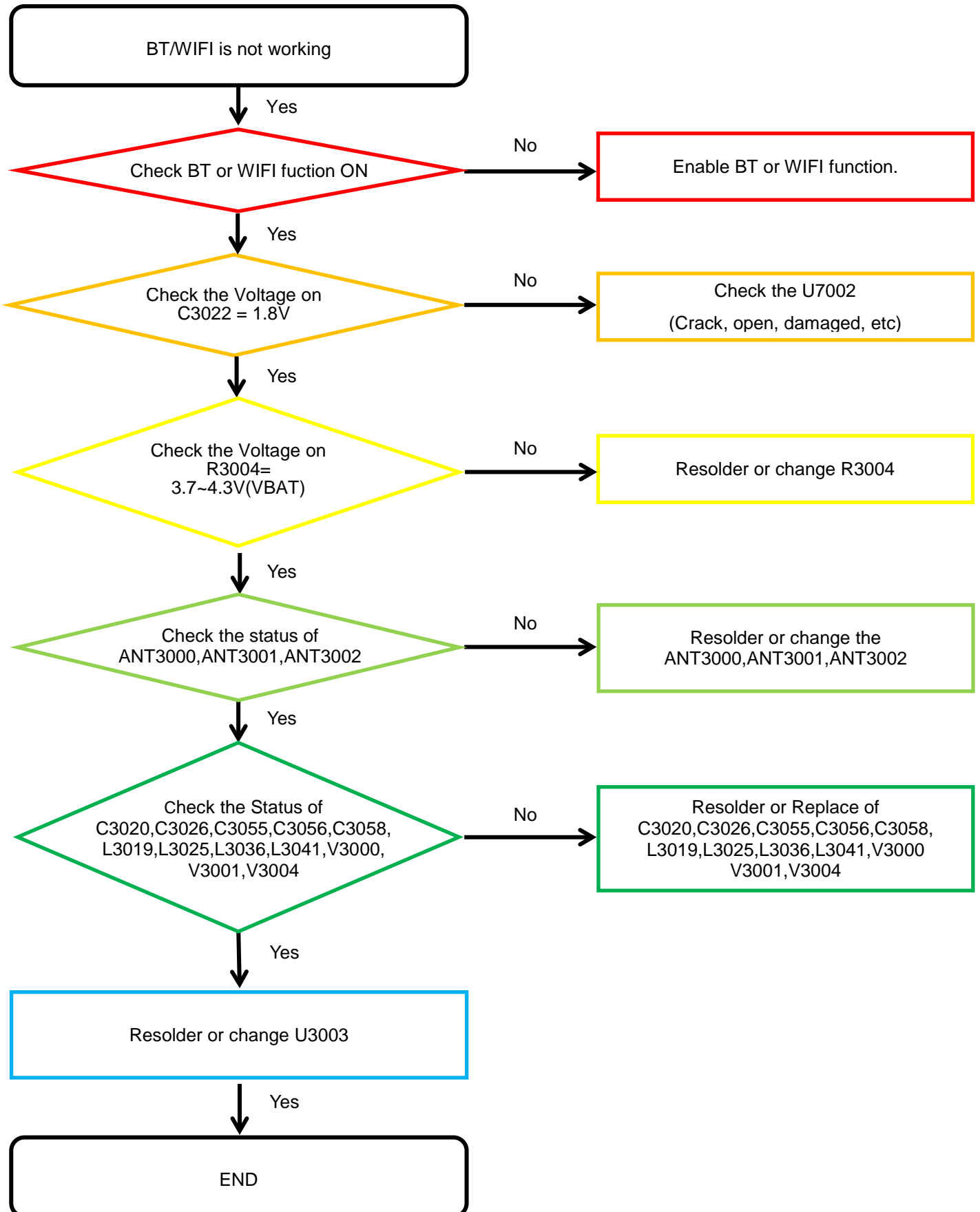
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### 8-4-21. Receiver part



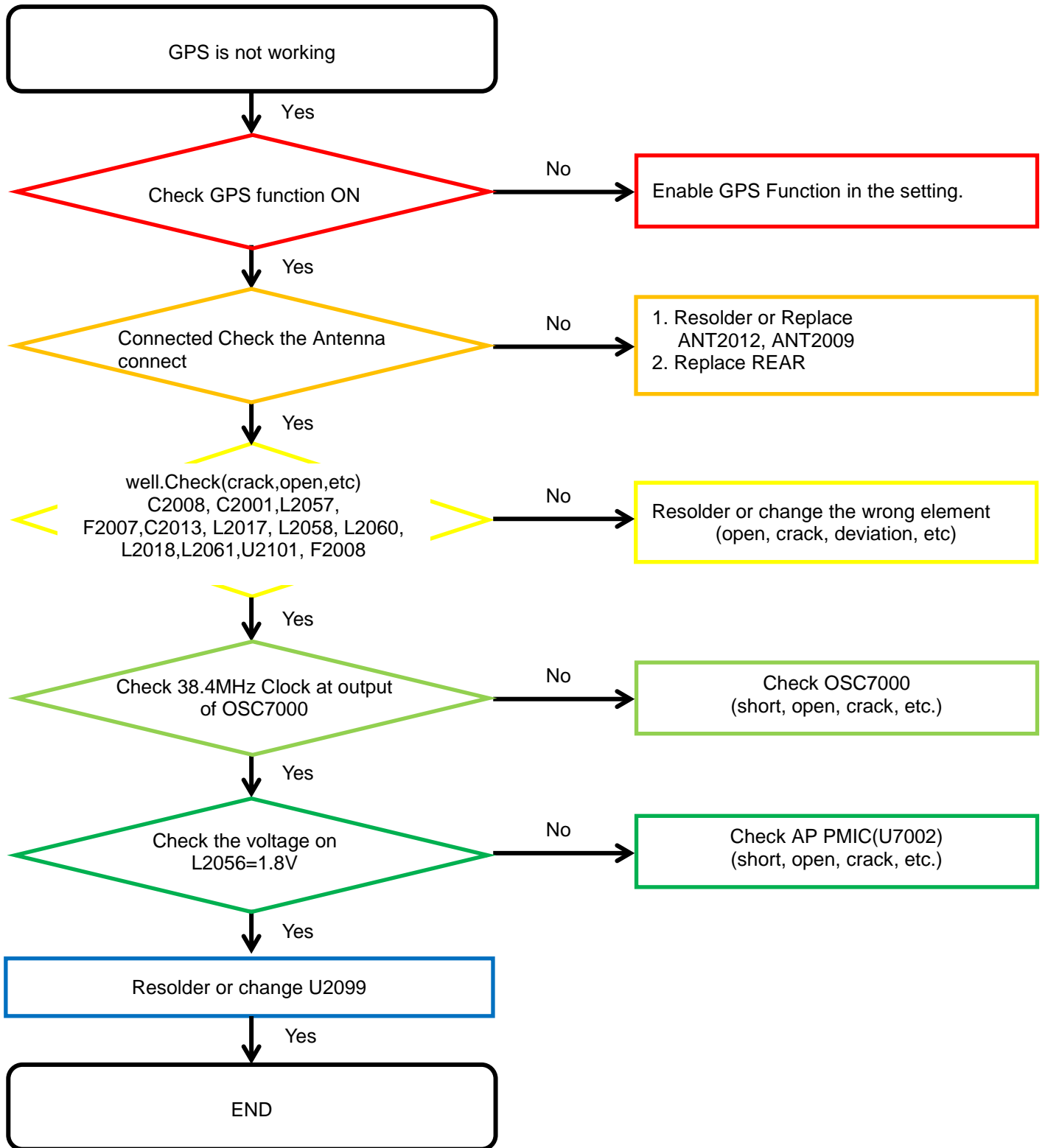
## 8. Level 3 Repair

### 8-4-22. BT/WIFI



# 8. Level 3 Repair

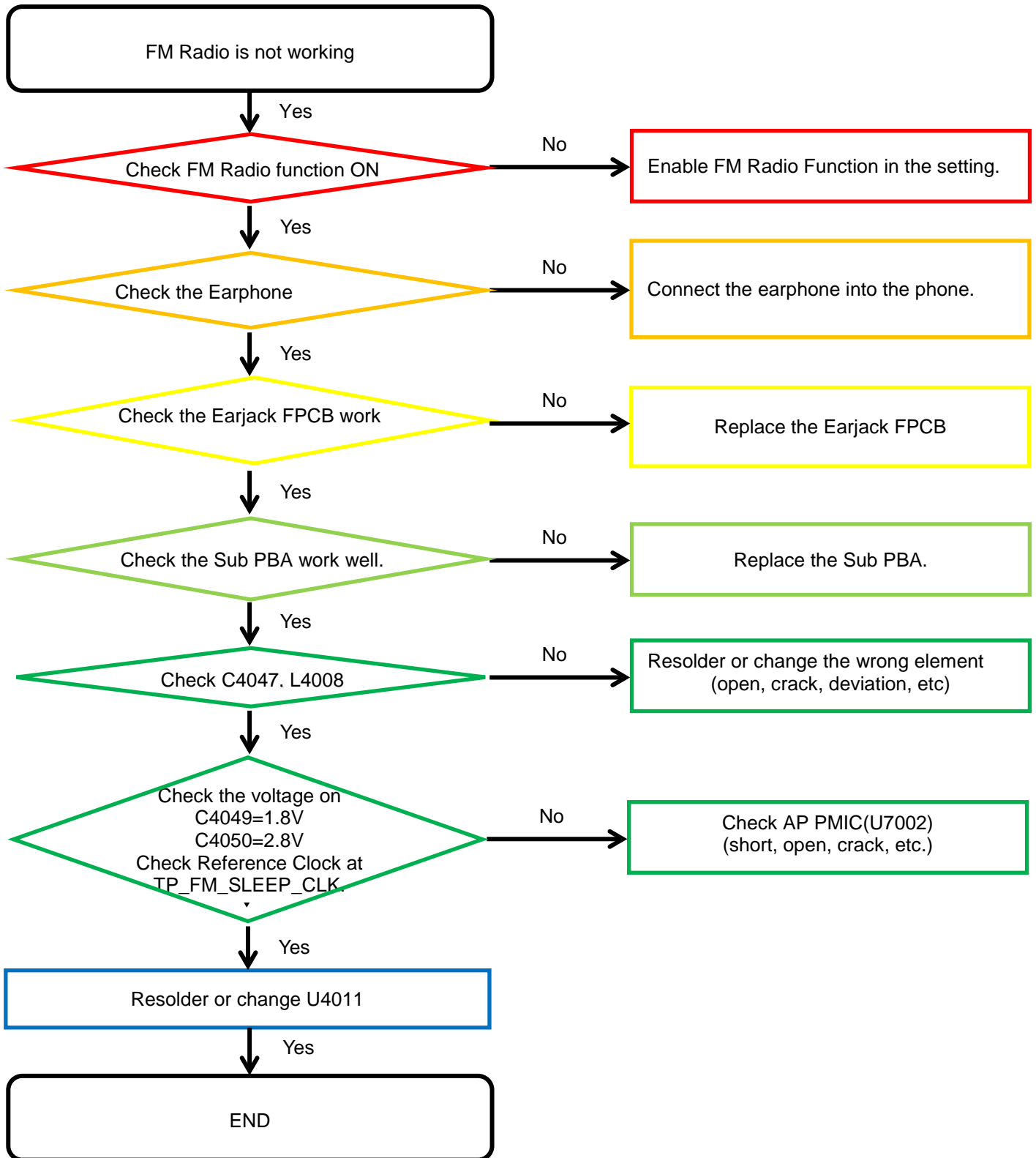
## 8-4-23. GPS





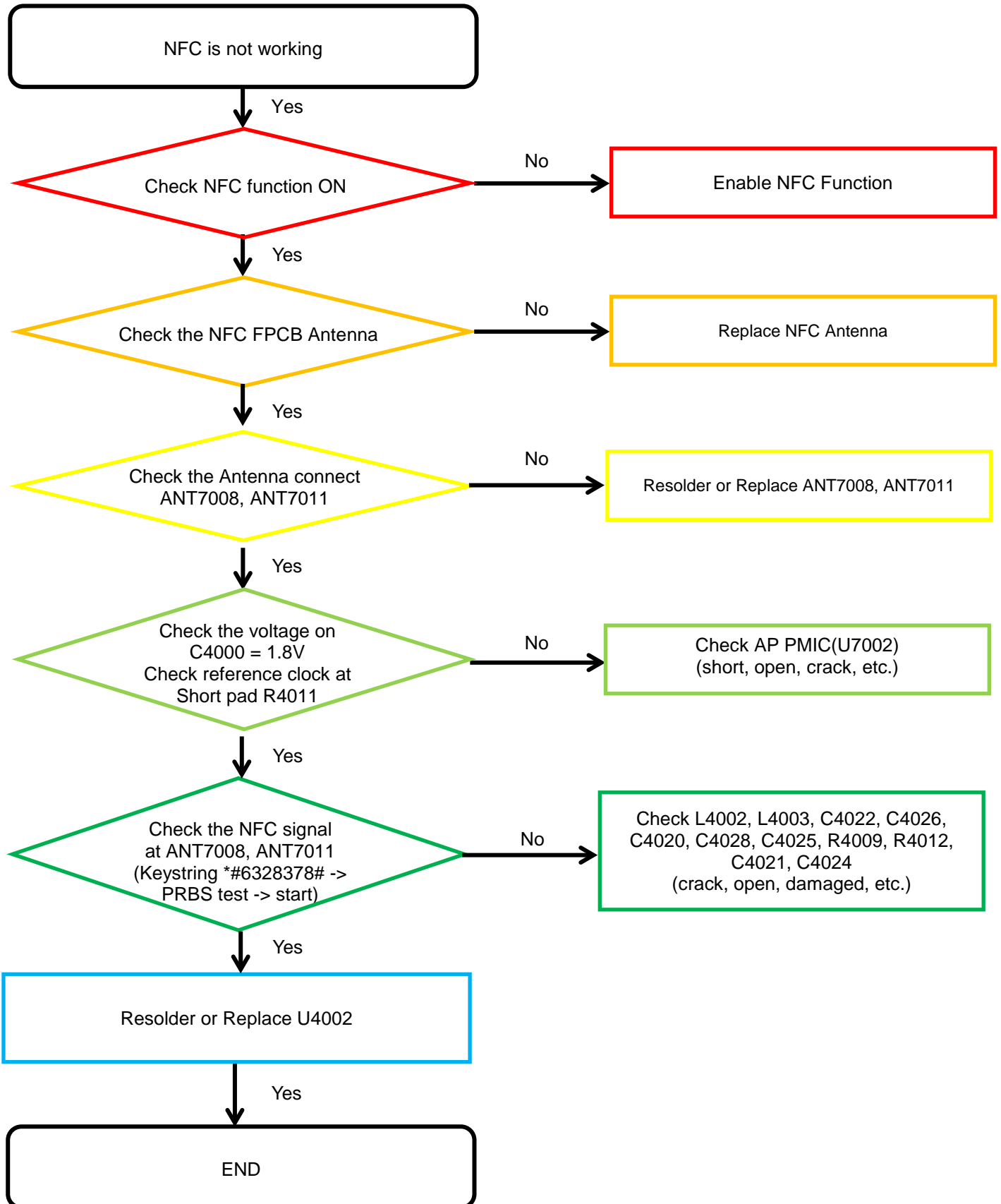
## 8. Level 3 Repair

### 8-4-24. FM Radio



## 8. Level 3 Repair

### 8-4-25. NFC

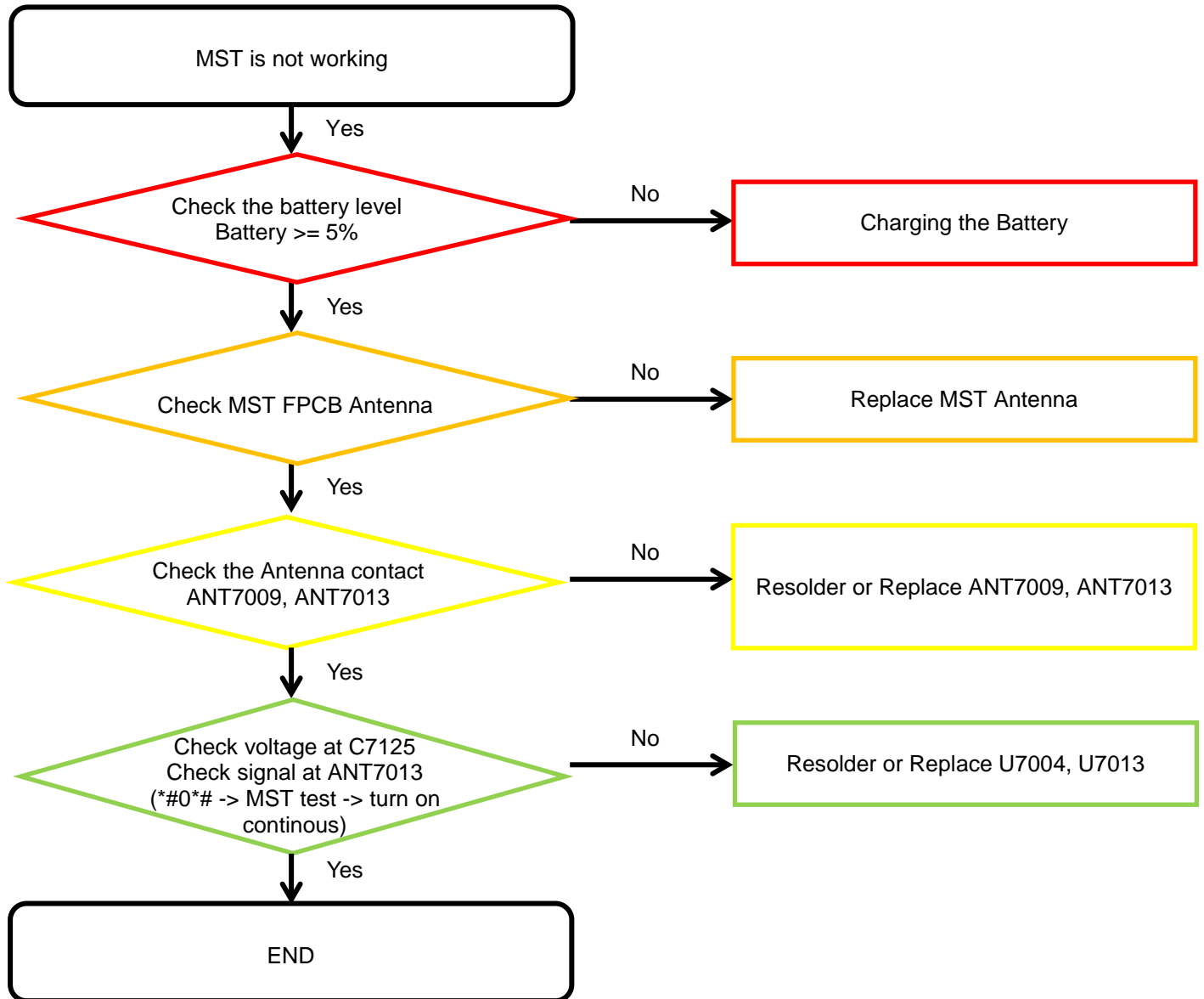


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## 8. Level 3 Repair

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### 8-4-26. MST

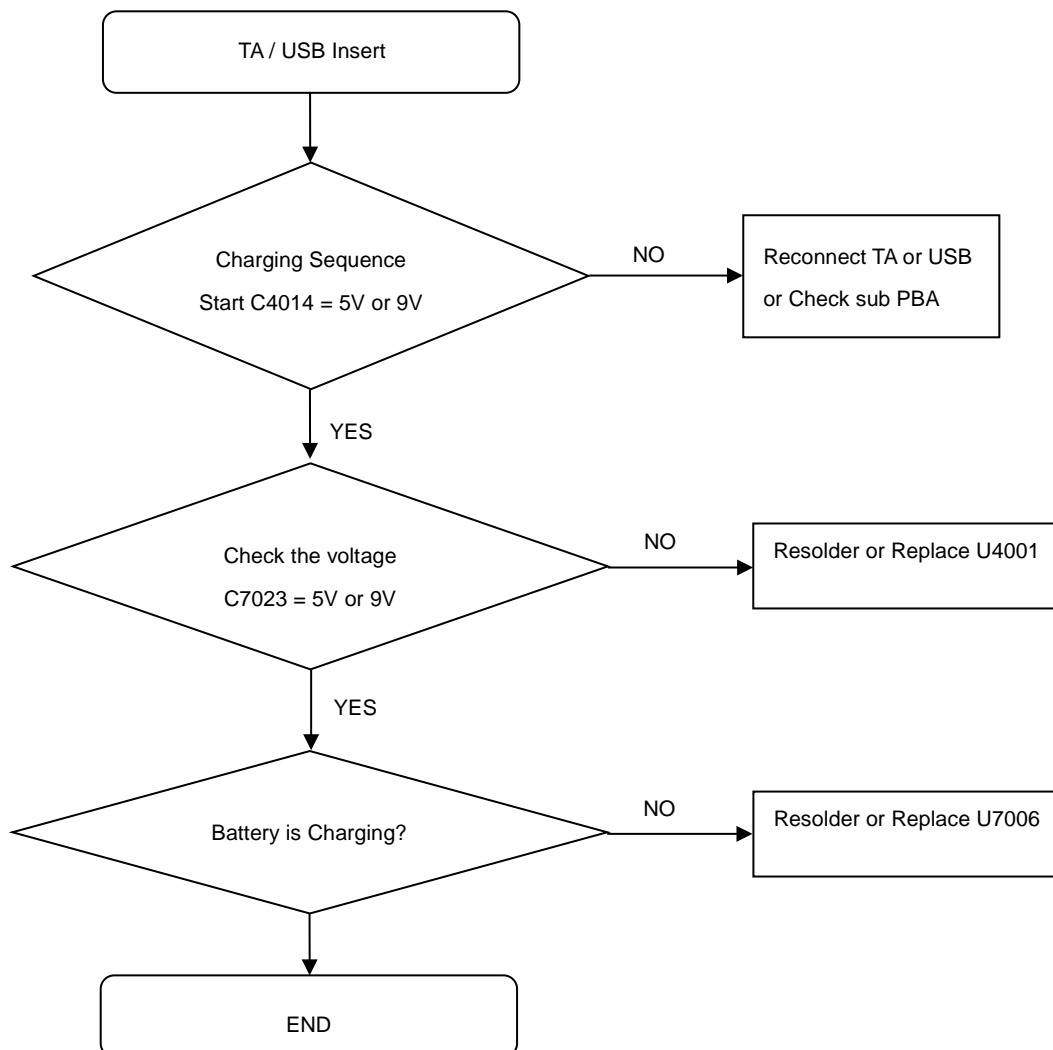


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## 8. Level 3 Repair

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### 8-4-27-1. Charging Part Wire Charging (Normal/Fast)

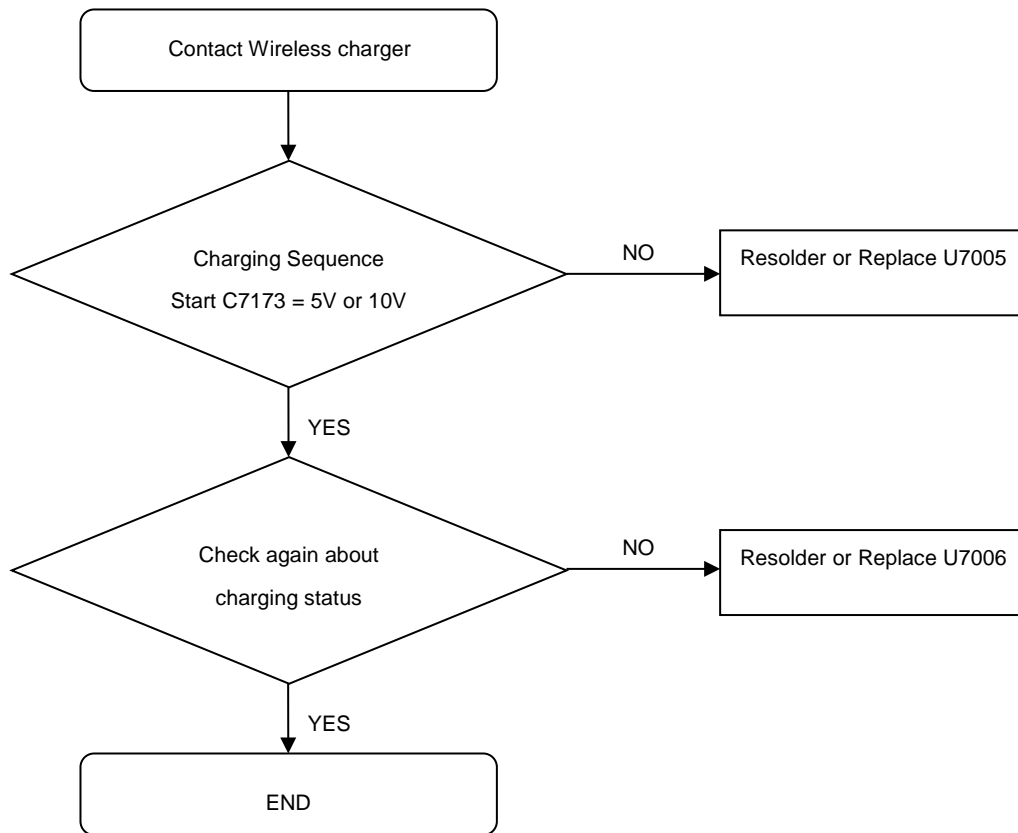


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## 8. Level 3 Repair

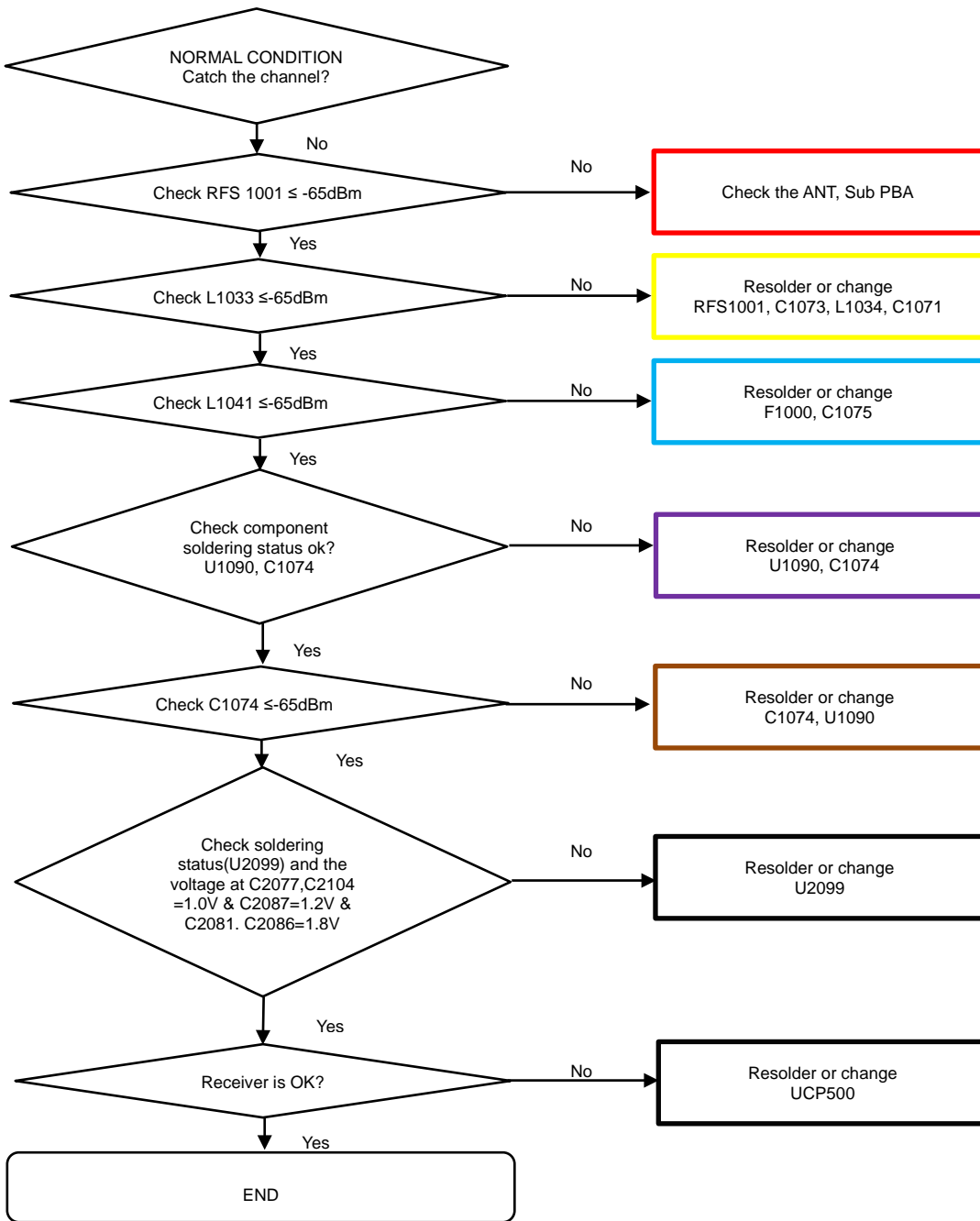
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### 8-4-27-2. Charging Part Wireless Charging (Normal/Fast)



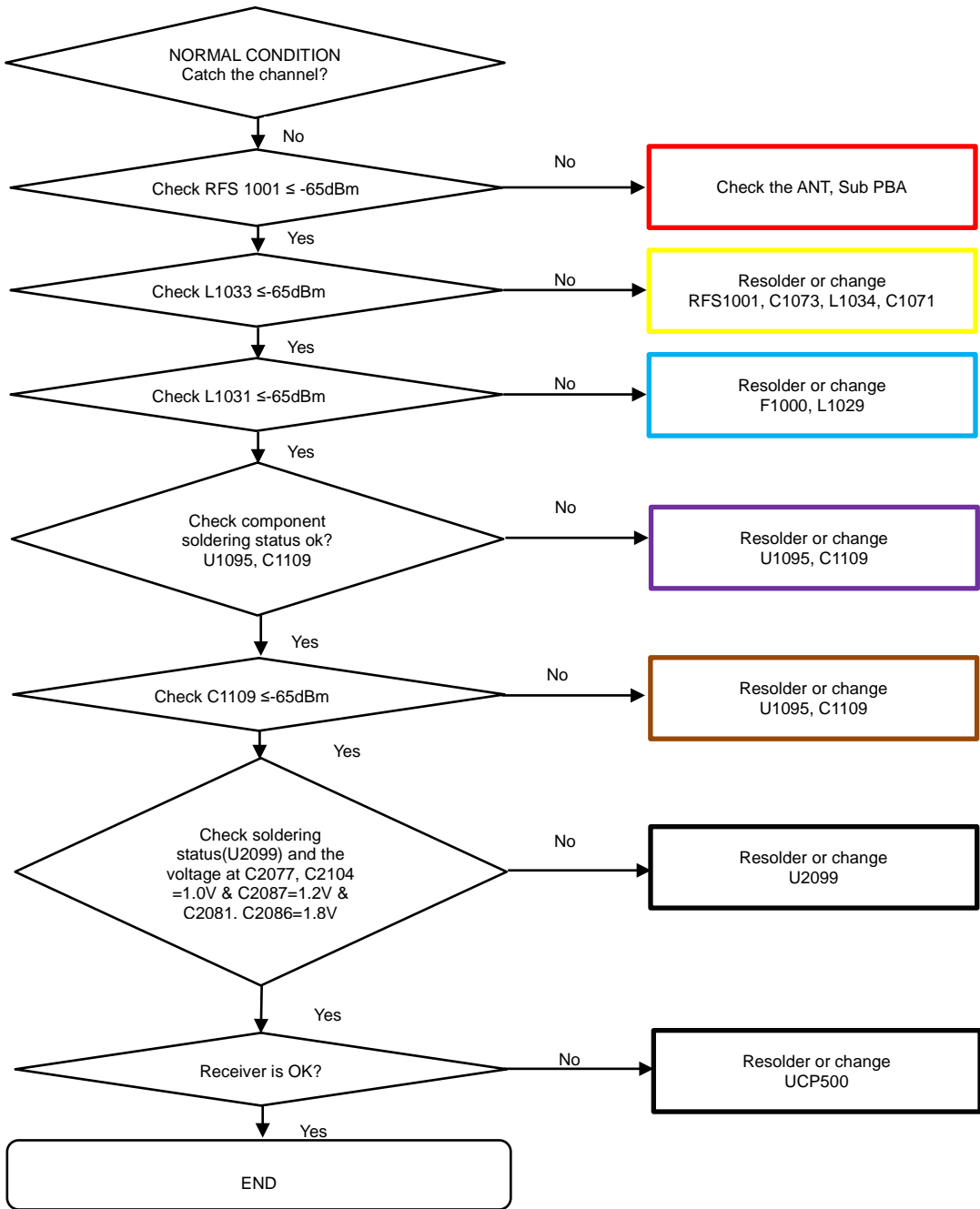
## 8. Level 3 Repair

### 8-4-28. GSM 850/900, CDMA BC0/10, WCDMA B5/8, LTE B5/8/12/13/14/17/18/19/20/26/28/29/71 RX



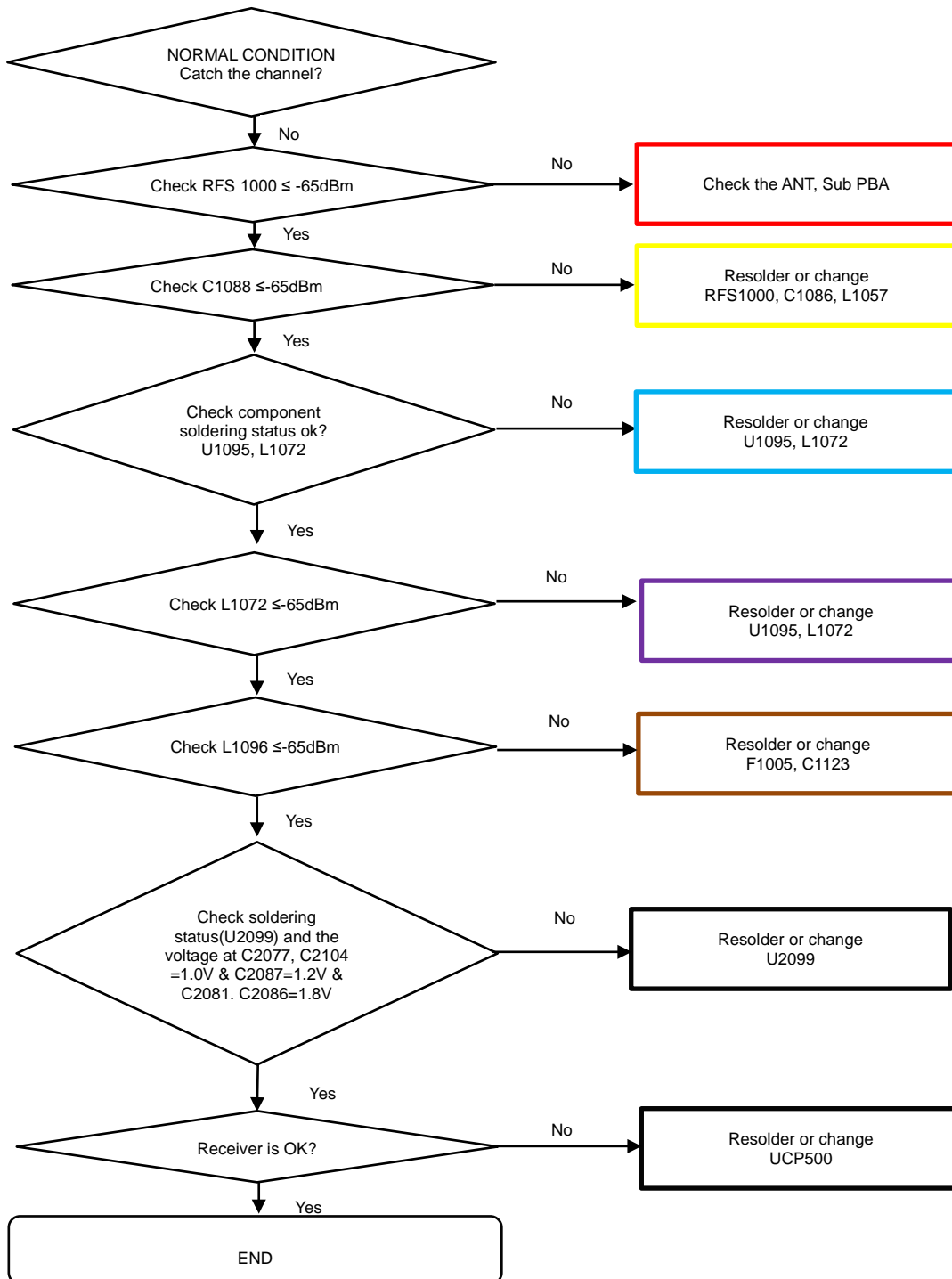
## 8. Level 3 Repair

### 8-4-29. CDMA BC1, GSM 1800/1900, WCDMA B1/2/4, TDSCDMA B34/39, LTE B1/2/3/4/25/39/66 RX



## 8. Level 3 Repair

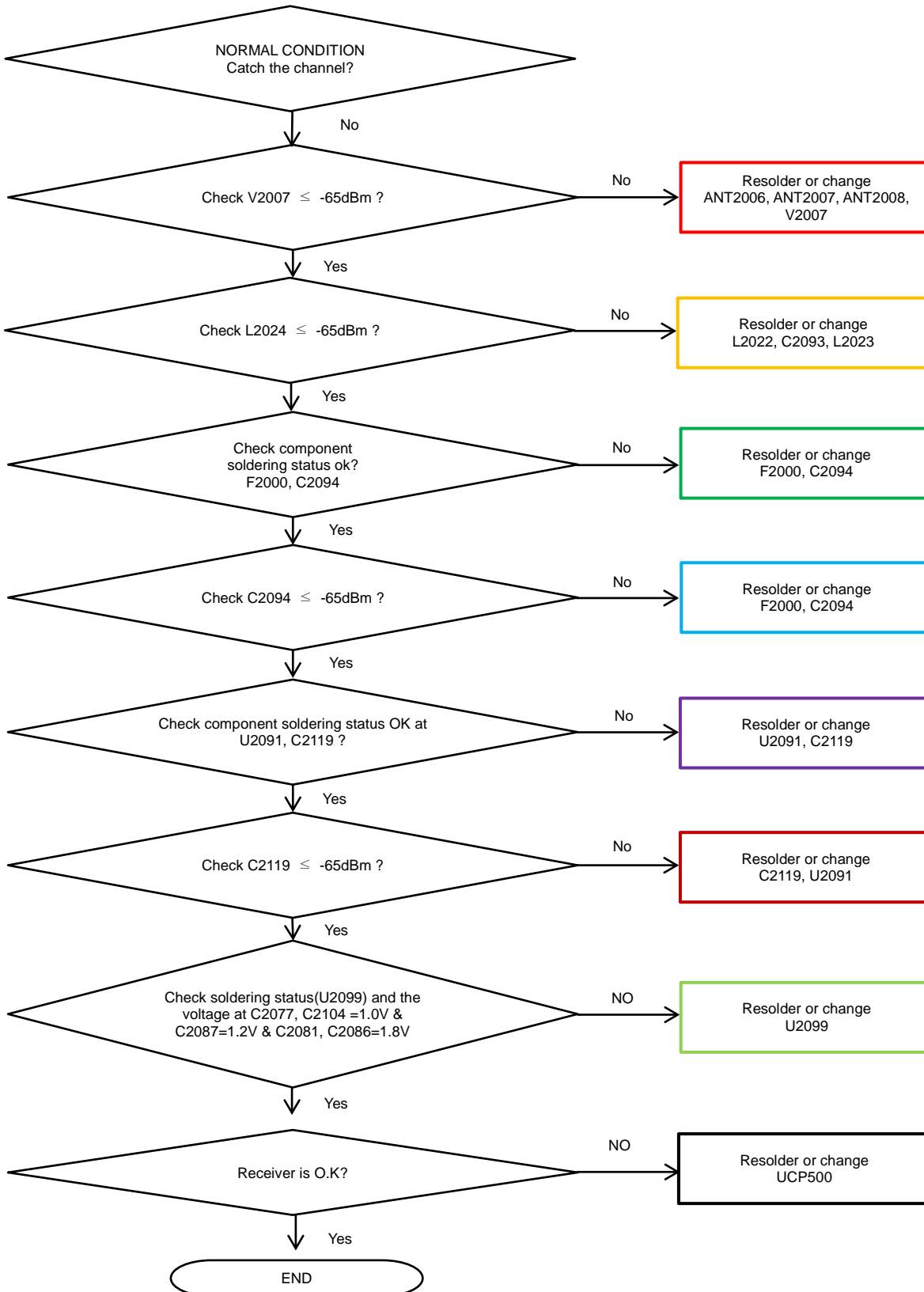
### 8-4-30. LTE B7/30/38/40/41 RX





## 8. Level 3 Repair

### 8-4-31. CDMA BC0/10, GSM 850/900, WCDMA B5/8, LTE B5/8/12/13/17/18/19/20/26/28/71 DRX

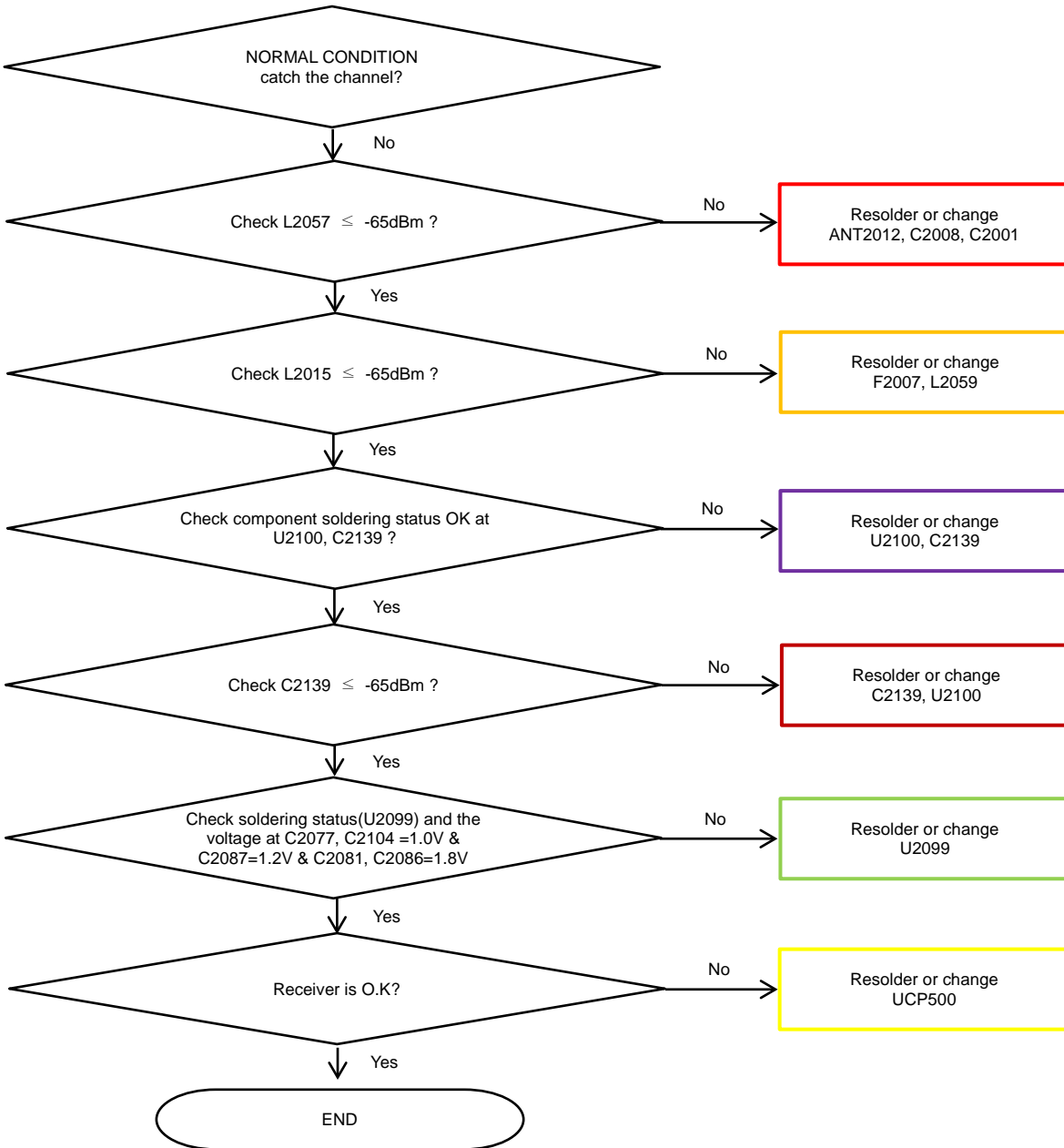


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## 8. Level 3 Repair

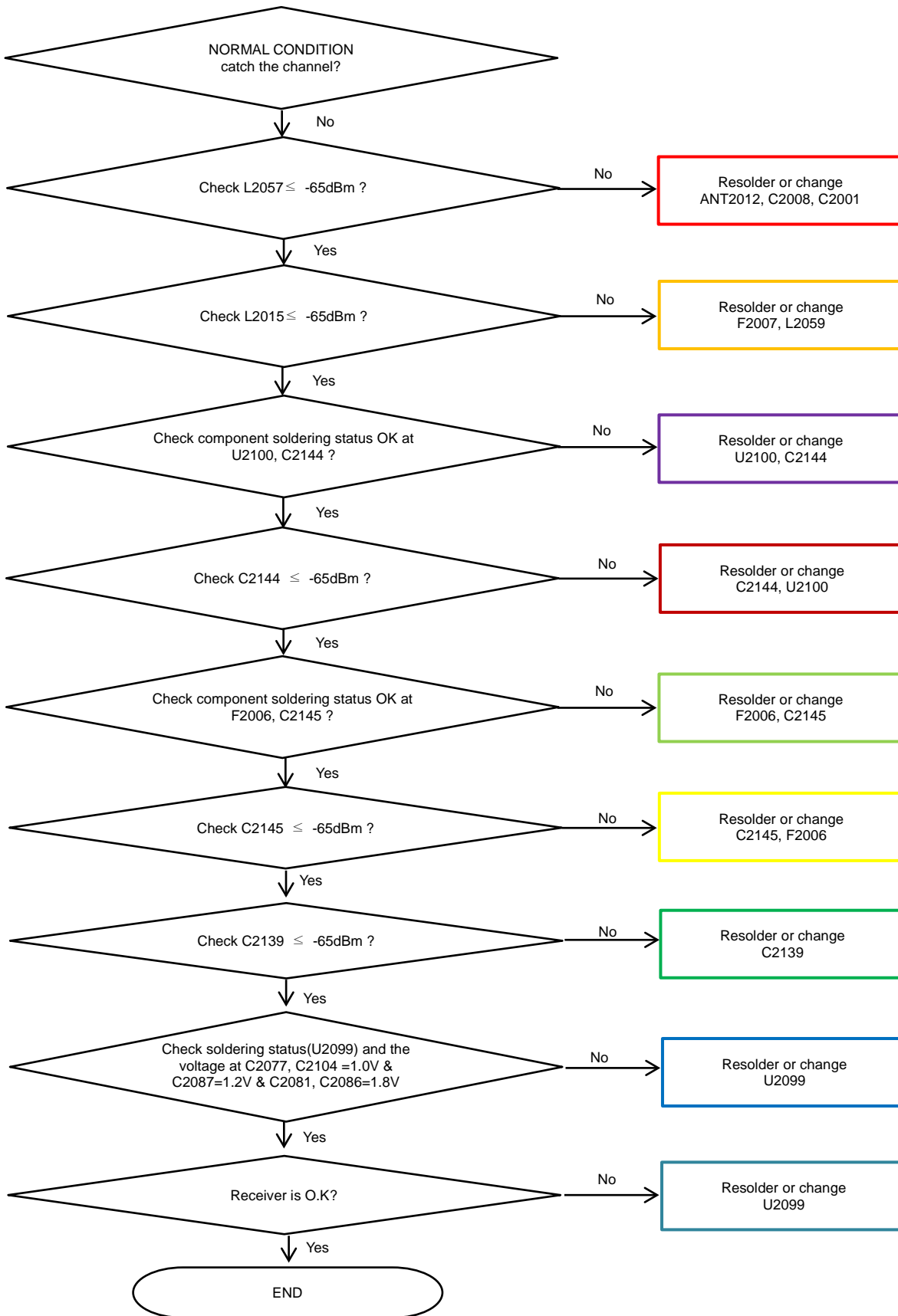
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### 8-4-32. GSM1800/1900, CDMA BC1, WCDMA B1/2/4, LTE B1/2/3/4/7/25/30/40/66 DRX



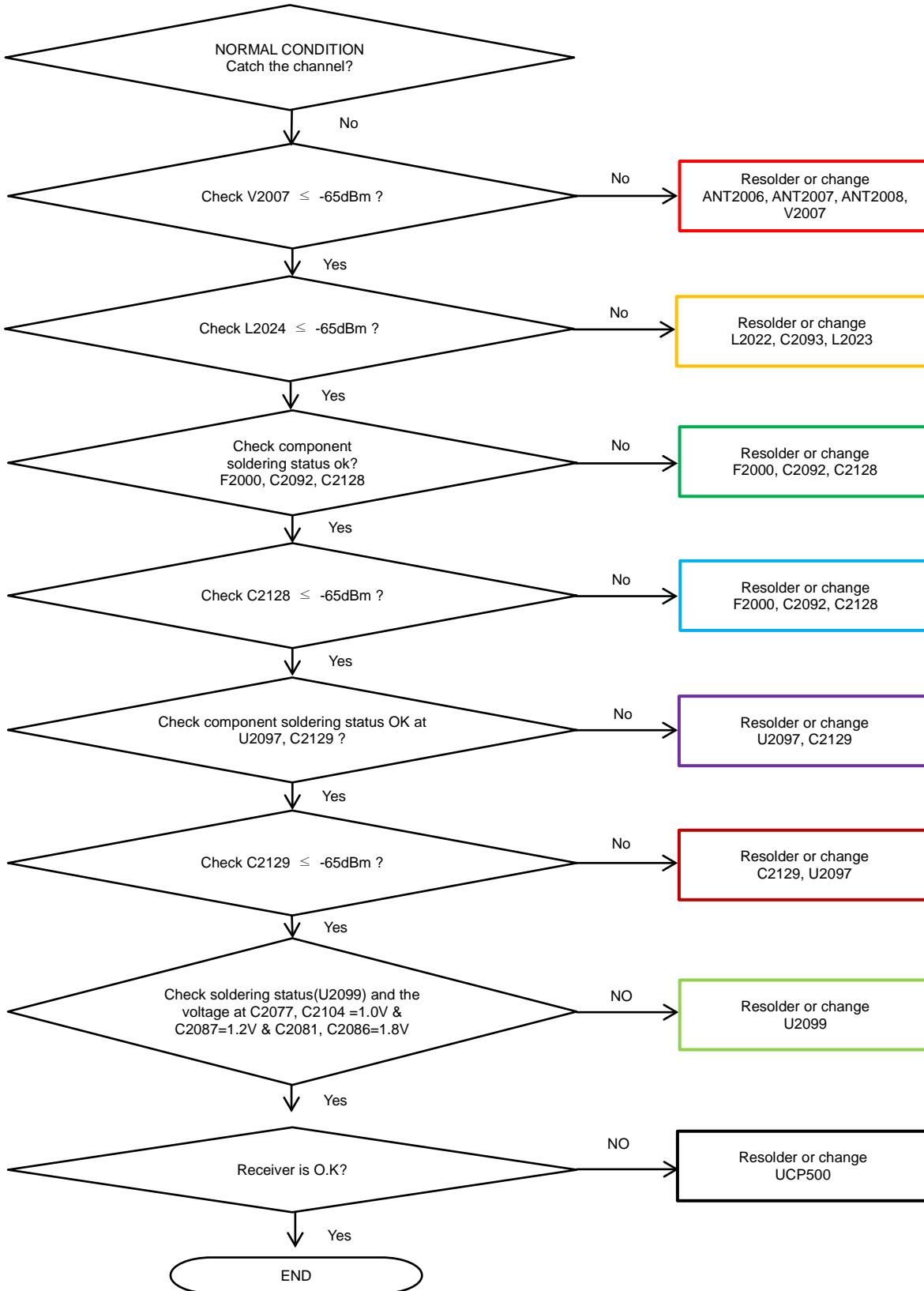
# 8. Level 3 Repair

## 8-4-33. LTE 38/41 DRX



# 8. Level 3 Repair

## 8-4-36. LTE B39 DRX

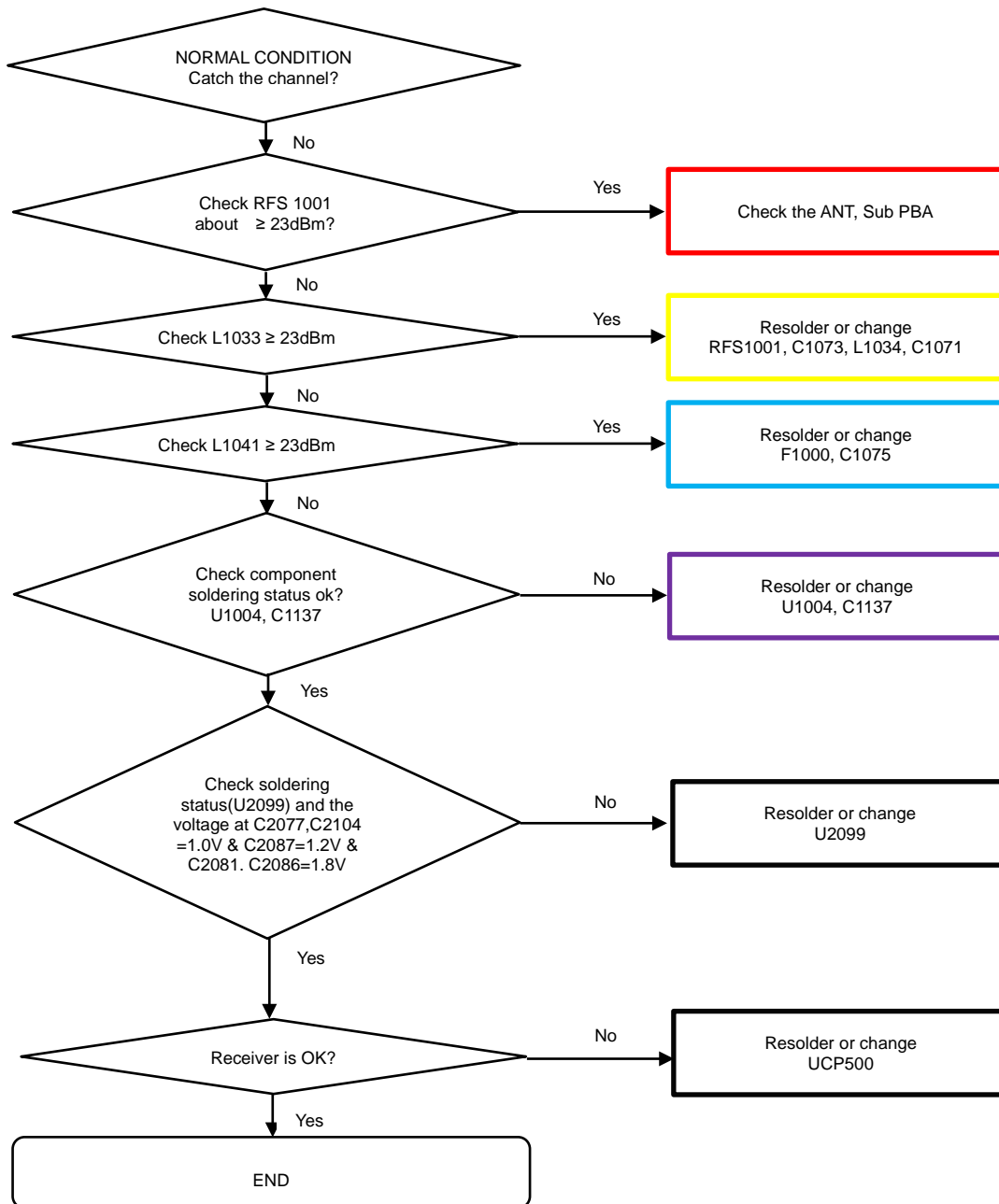


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## 8. Level 3 Repair

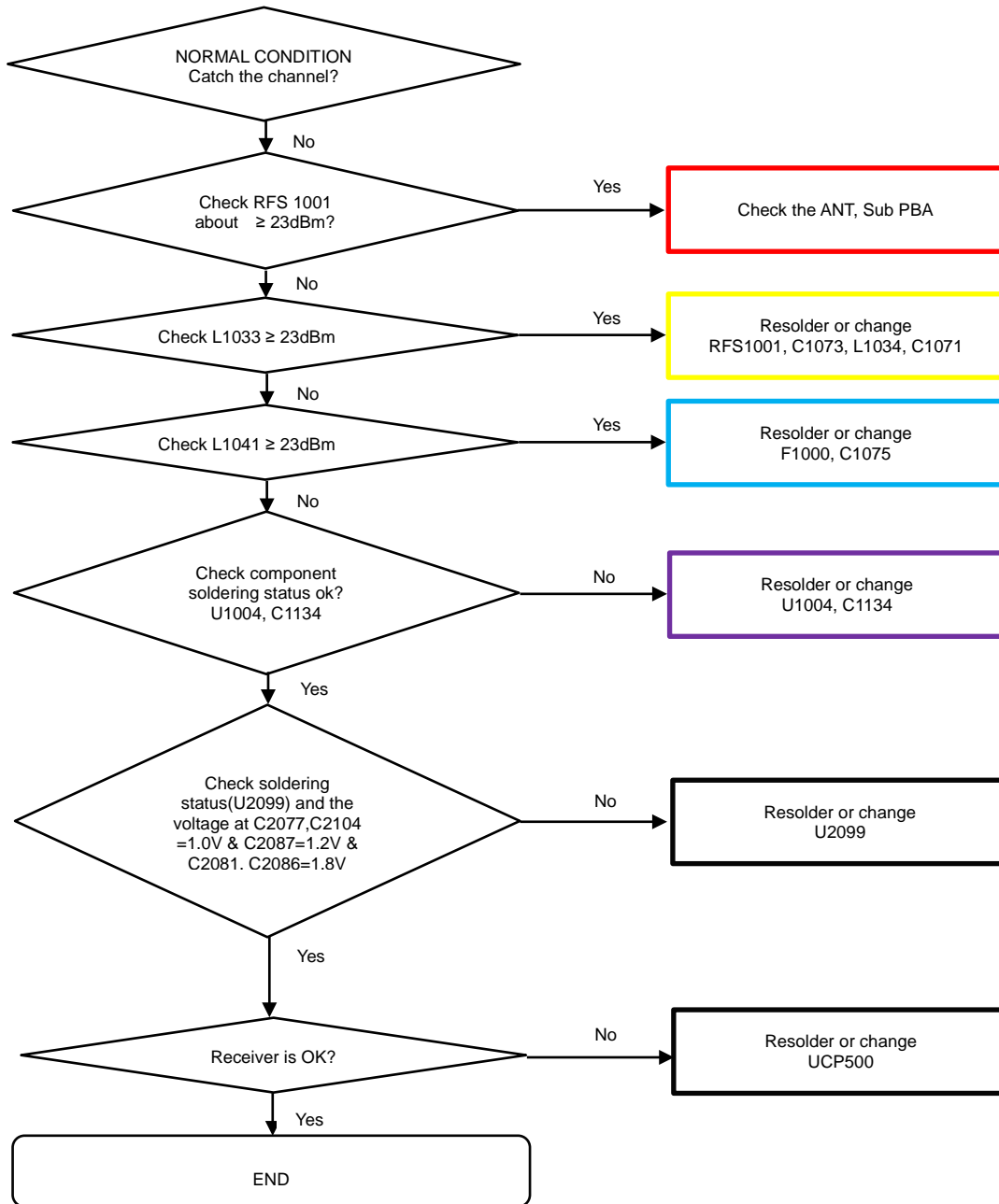
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### 8-4-35. GSM 850/900 TX



## 8. Level 3 Repair

### 8-4-36. GSM 1800/1900 TX

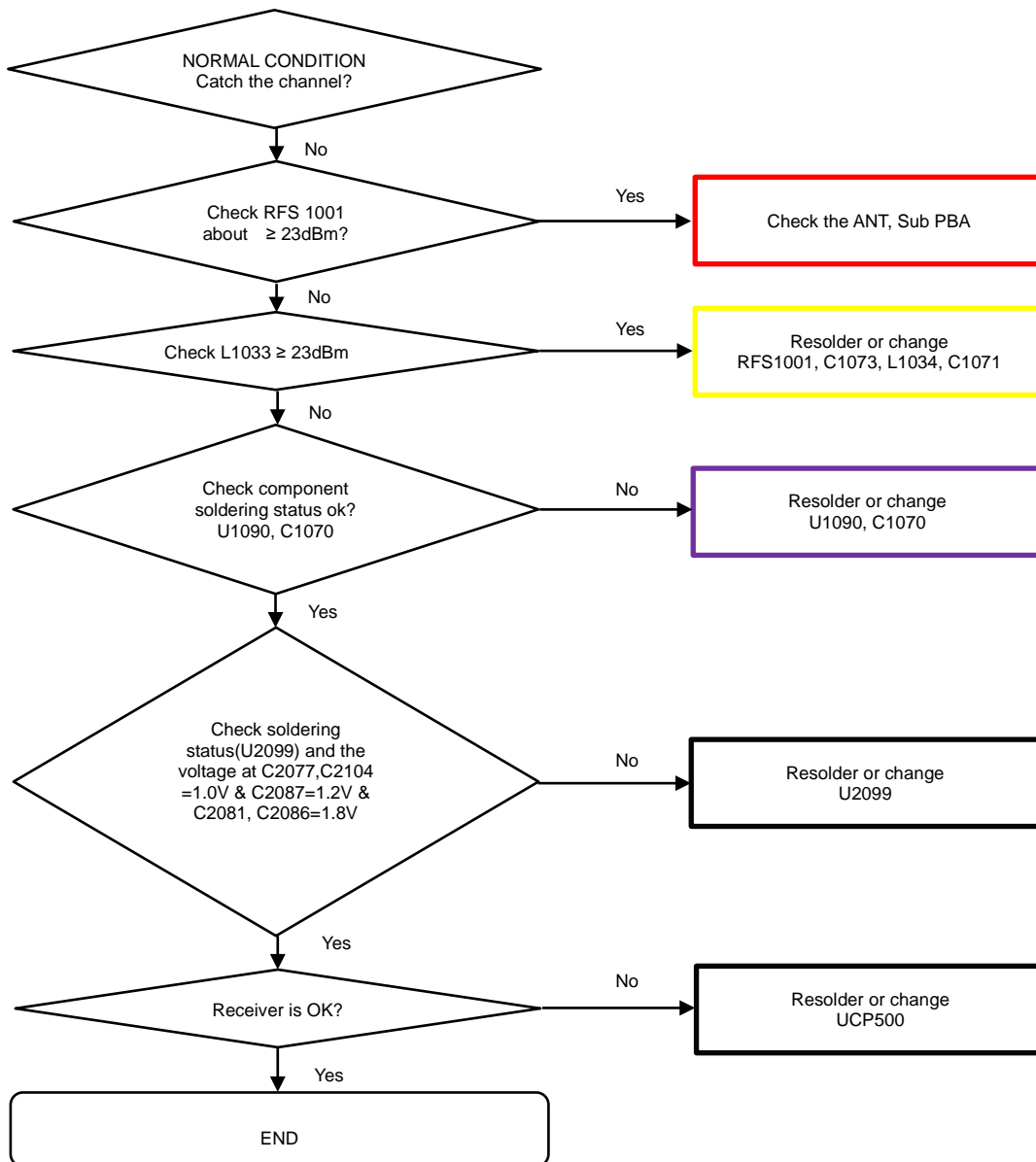


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## 8. Level 3 Repair

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### 8-4-37. CDMA BC0/10, WCDMA B5/8, LTE5/8/12/13/17/20/26/28/29/71 TX

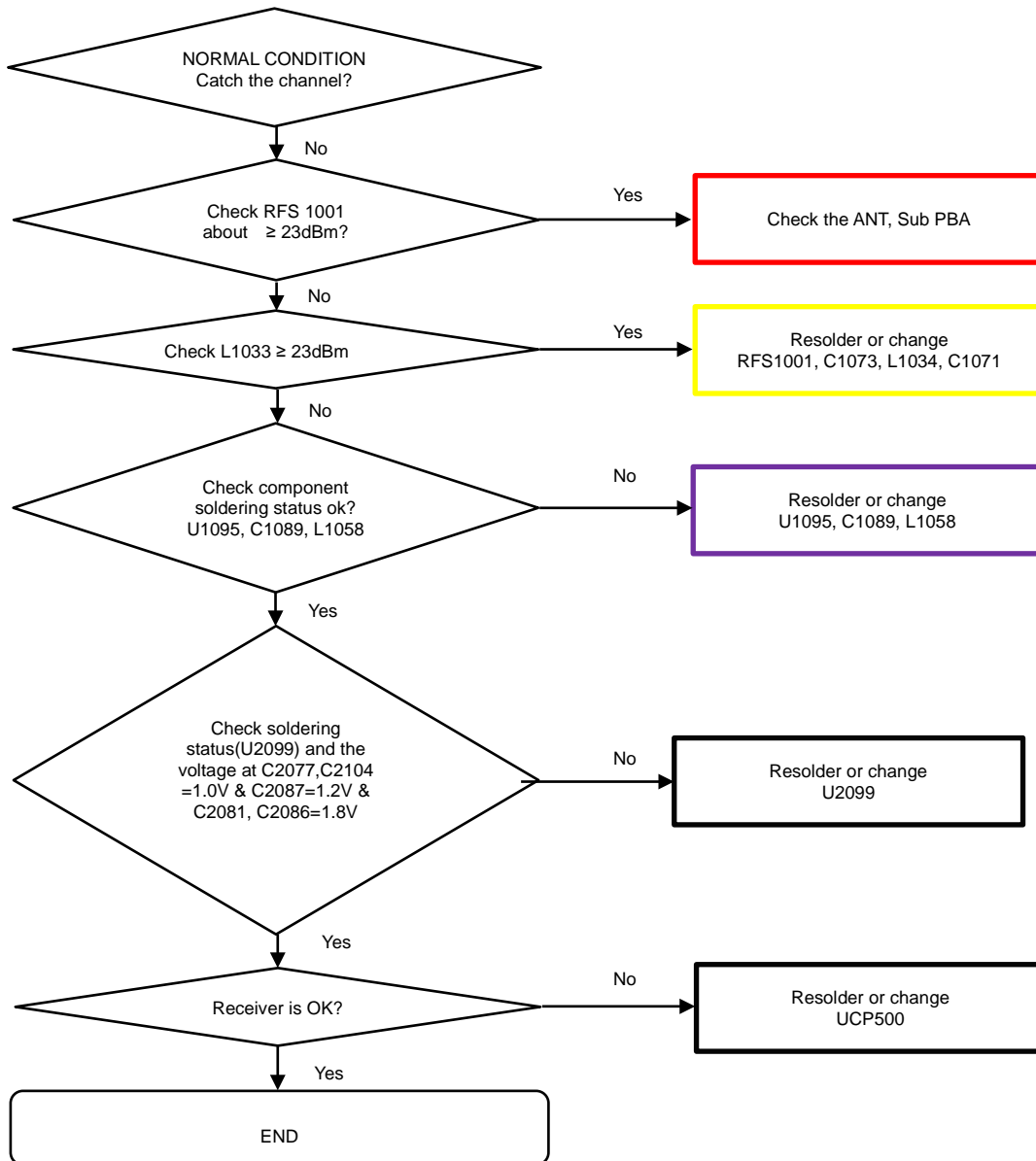


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## 8. Level 3 Repair

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### 8-4-38. CDMA BC1, TDSCDMA B34/39, WCDMA B1/2/4, LTE B1/2/3/4/25/39/66 TX



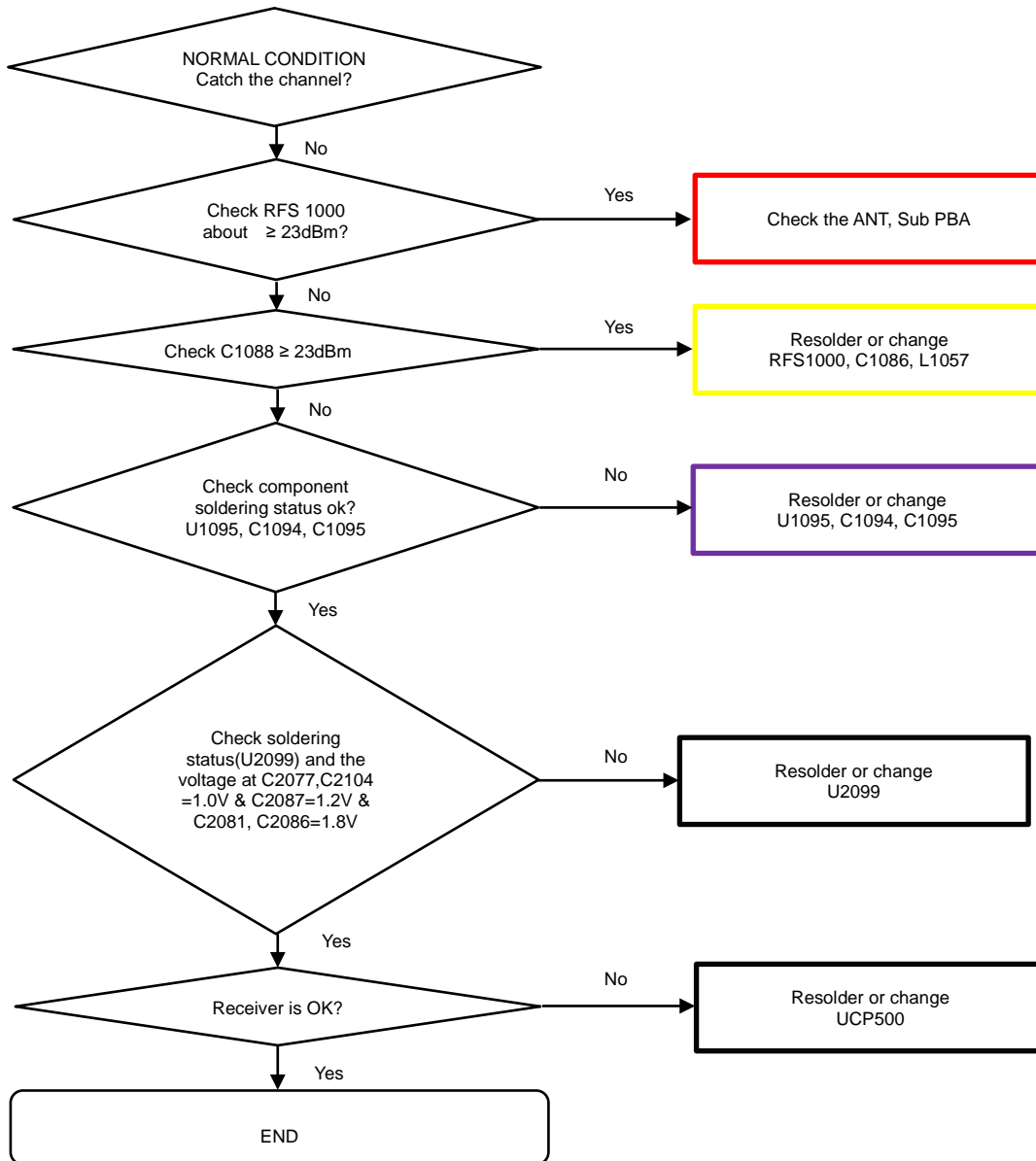


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## 8. Level 3 Repair

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

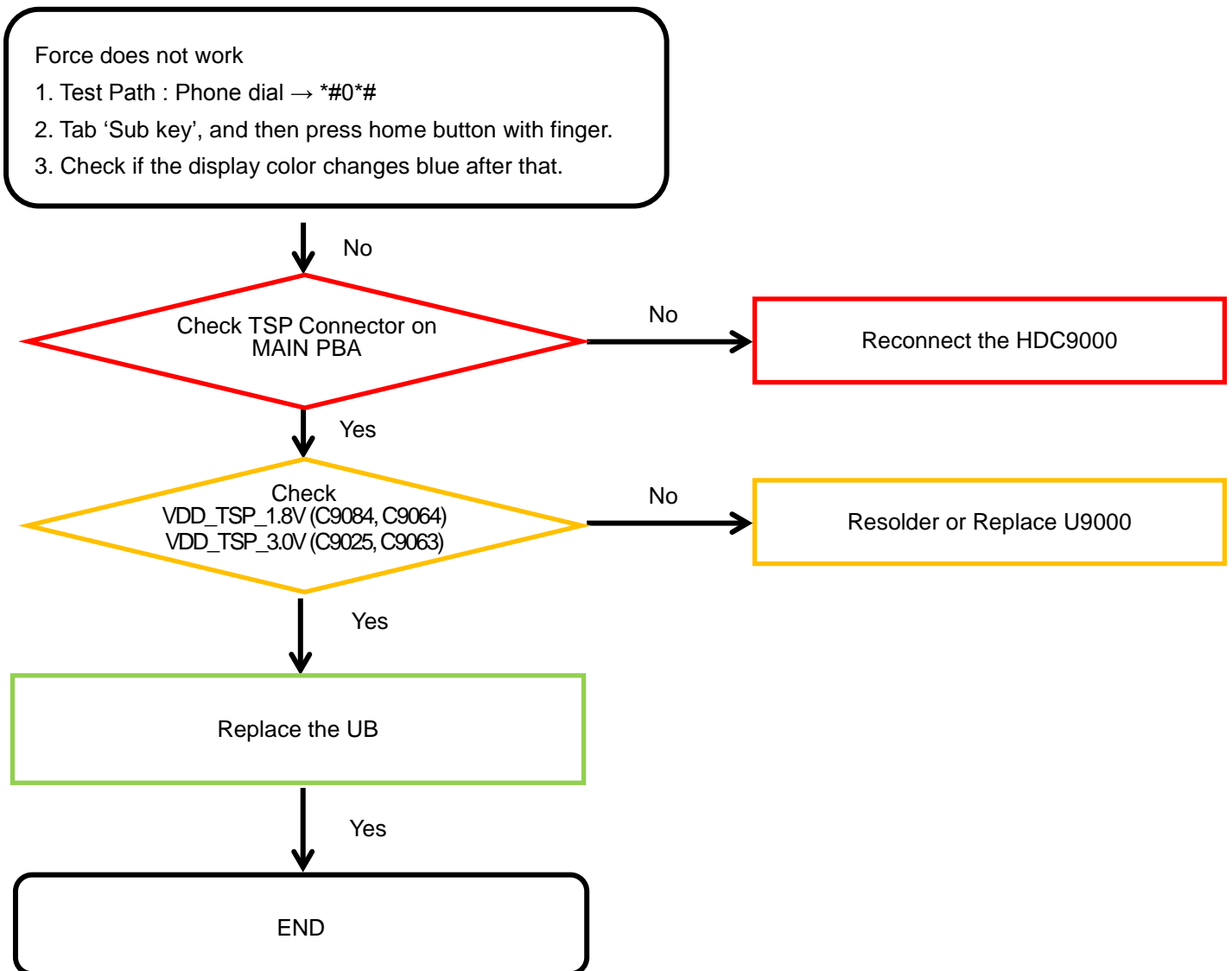


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## 8. Level 3 Repair

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### 8-4-40. Force Touch



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## 8. Level 3 Repair

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### 8-4-41. Dex Station

