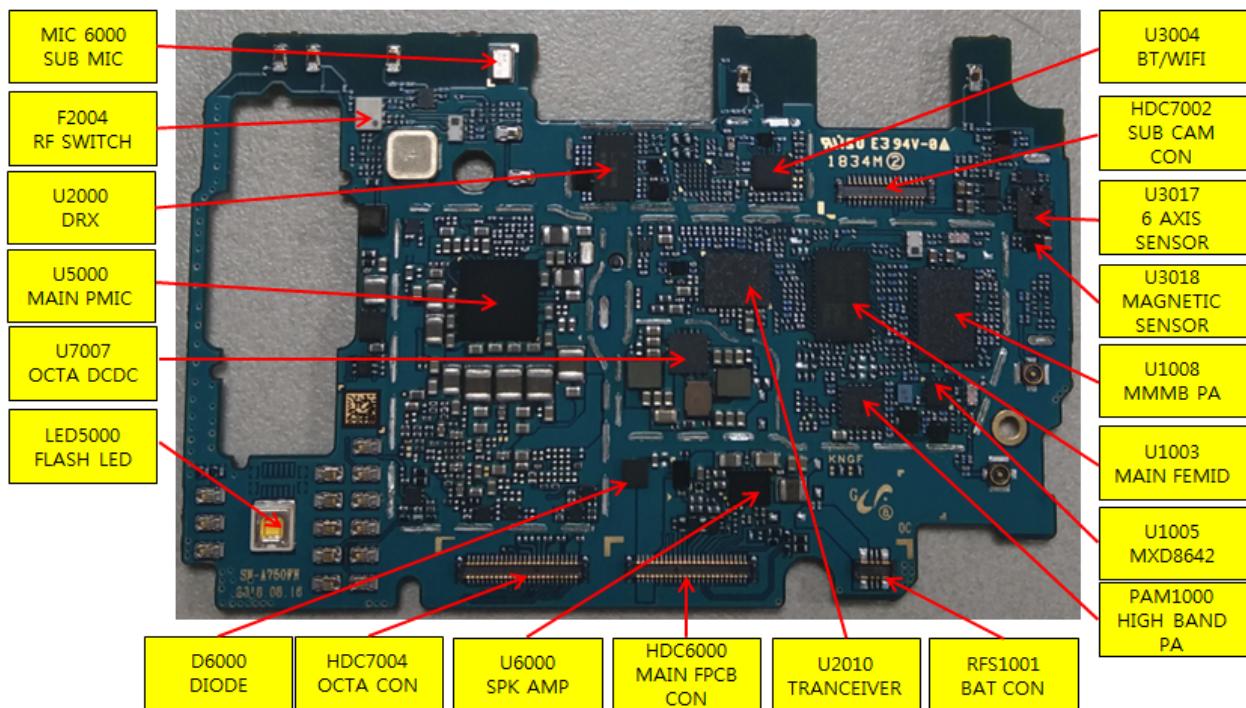


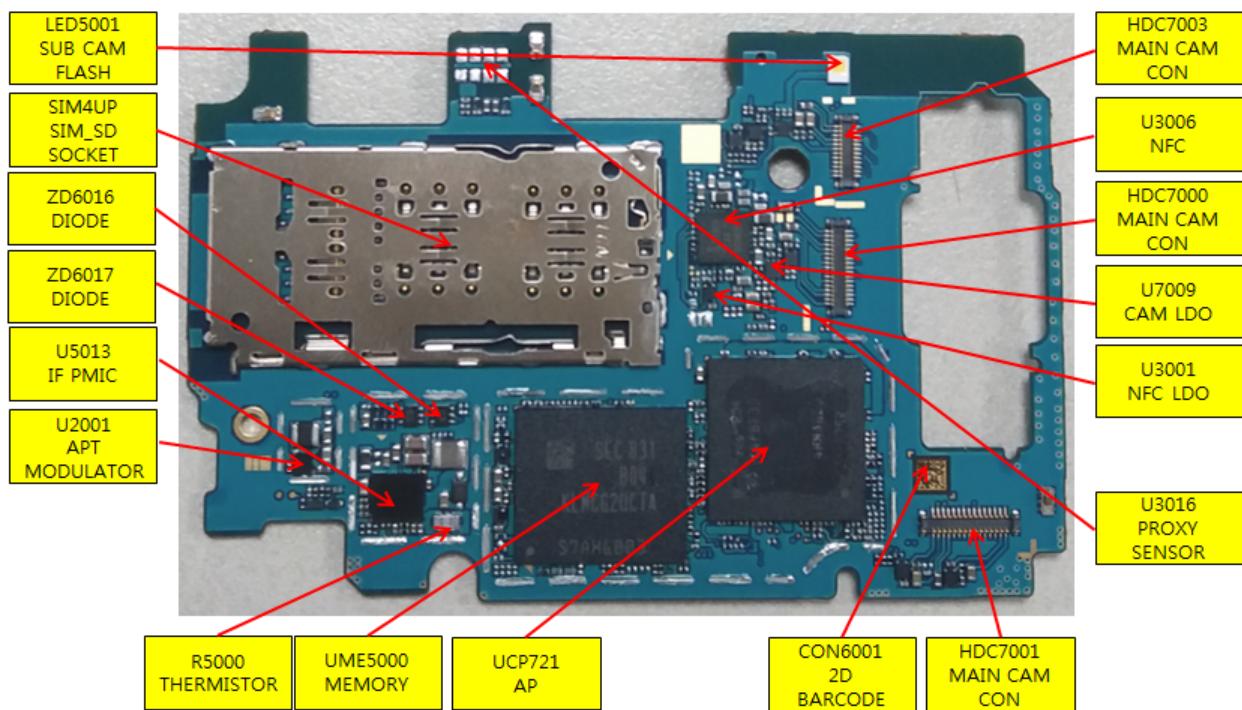
## 8. Level 3 Repair

### 8-1. Components Layout

**MAIN PBA (TOP SIDE)**

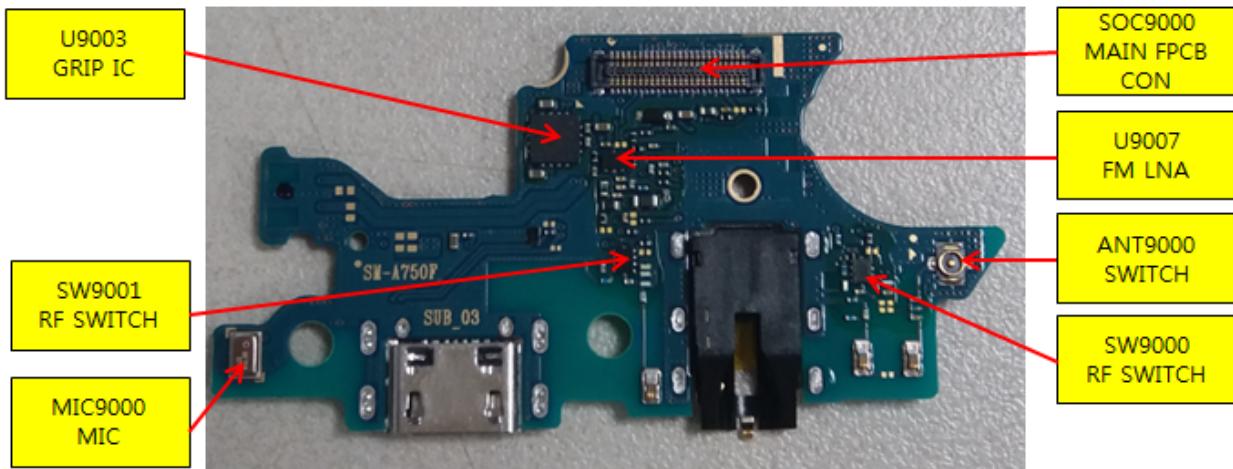


**MAIN PBA (BOTTOM SIDE)**

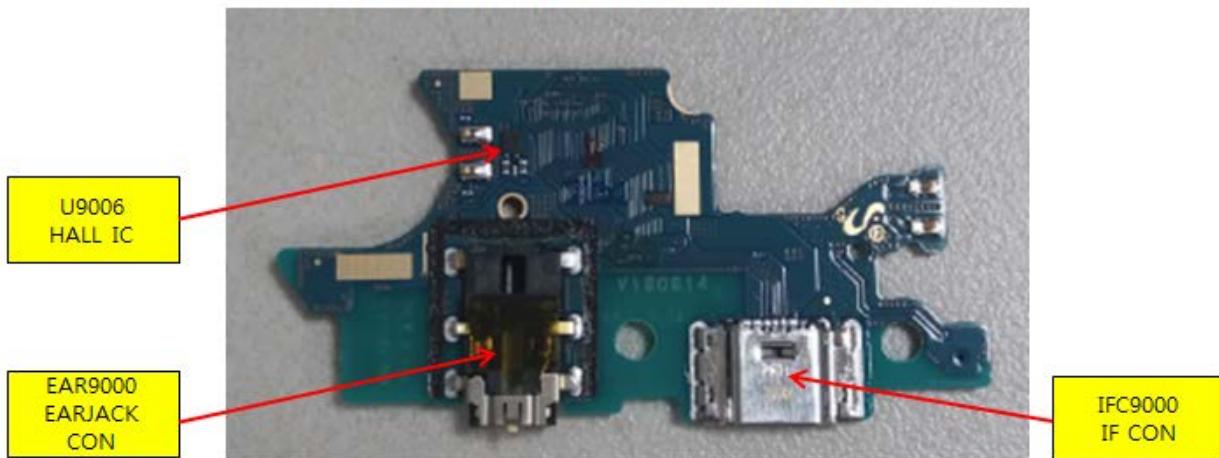


## 8. Level 3 Repair

### SUB PBA (TOP SIDE)

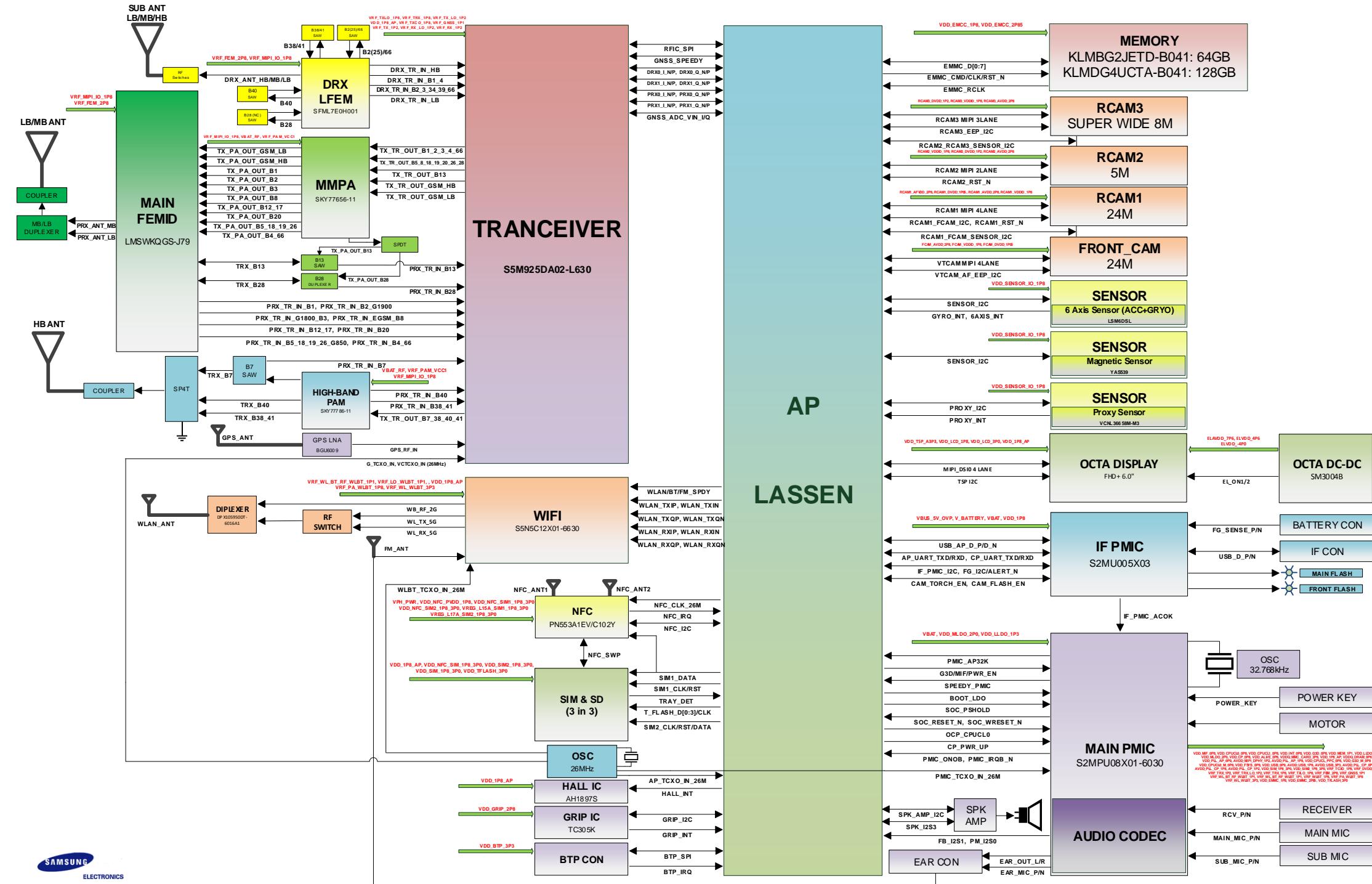


### SUB PBA (BOTTOM SIDE)



# A7 2018 Block Diagram

SM - A750FN/F/GN/G  
Common



**SM - A750FN**

U3016

RNT209

RNT2081

**SIM4UP**

**SIM1**

**SIM2**

**SIM3**

A

A

B

**SC6001**

**UCP721**

**SC60003**

RH600

RNT2015

SC60000

L.2020

C302

C303

C304

C305

C306

C307

C308

C309

C310

C311

C312

C313

C314

C315

C316

C317

C318

C319

C320

L.2016

ZD6016

ZD6017

C5057

C5060

L.5012

C3081

R5008

**UME5000**

U5013

C

D

E

F

G

H

I

J

K

L

M

N

O

P

Q

R

S

T

**HDC7003**

**HDC7000**

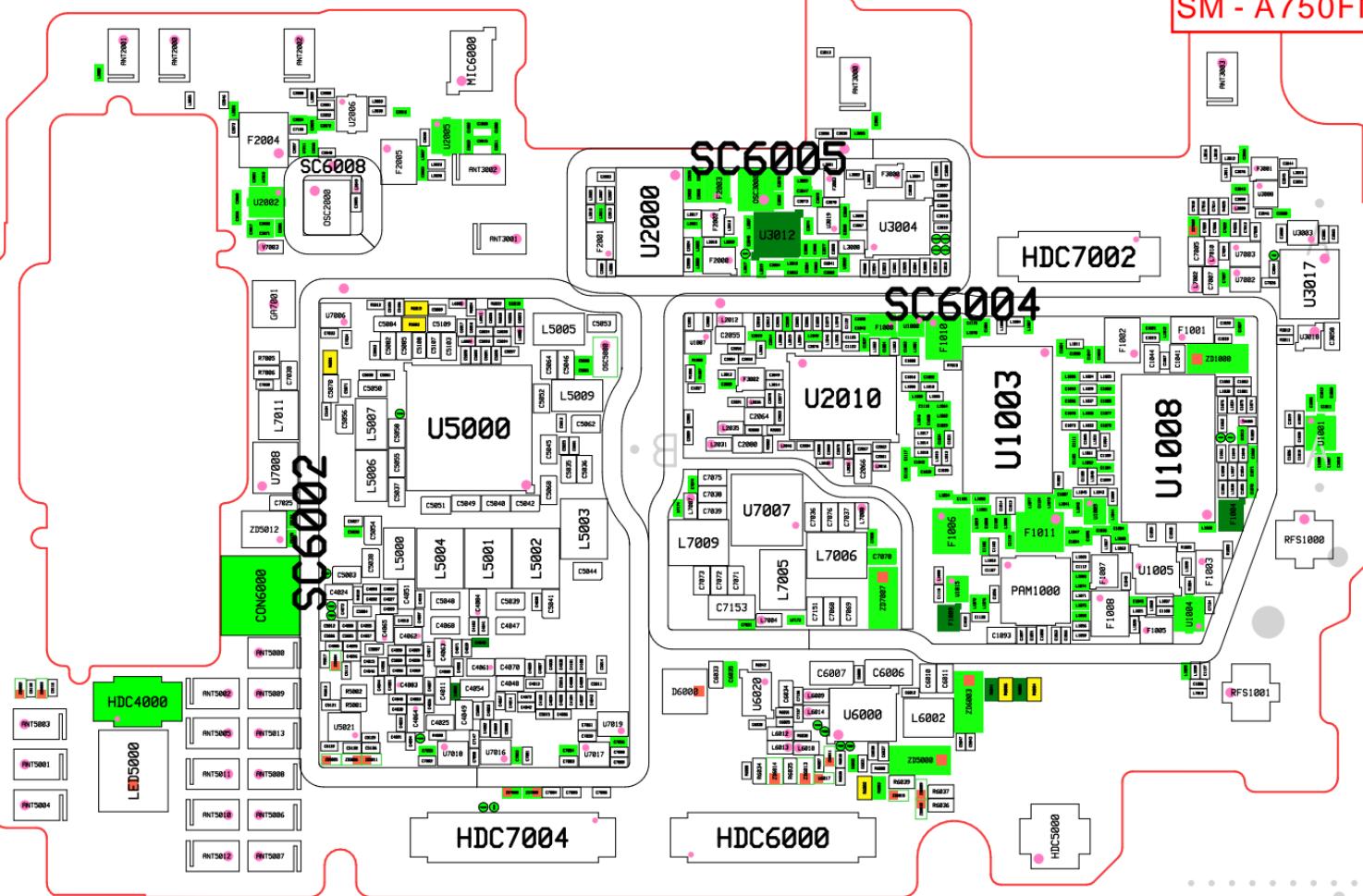
CONS01

**HDC7001**

RNT2011

EFG4000

**SM - A750FN**



**SM - A750F**

**U3016**

**SIM1**

**SIM4UP**

**SIM2**

**SIM3**

**SC6003**

**SC6000**

**SC6008**

**SC6009**

**SC6010**

**SC6011**

**SC6012**

**SC6013**

**SC6014**

**SC6015**

**SC6016**

**SC6017**

**SC6018**

**SC6019**

**SC6020**

**SC6021**

**UME5000**

**U5013**

**R5000**

**Z5001**

**C5057**

**C5068**

**L5012**

**ZD6016**

**ZD6017**

**C5058**

**C5069**

**C5070**

**C5071**

**C5072**

**C5073**

**C5074**

**C5075**

**C5076**

**C5077**

**C5078**

**C5079**

**C5080**

**C5081**

**C5082**

**C5083**

**C5084**

**C5085**

**C5086**

**C5087**

**C5088**

**C5089**

**C5090**

**C5091**

**C5092**

**C5093**

**C5094**

**C5095**

**C5096**

**C5097**

**C5098**

**C5099**

**C5100**

**C5101**

**C5102**

**C5103**

**C5104**

**C5105**

**C5106**

**C5107**

**C5108**

**C5109**

**C5110**

**C5111**

**C5112**

**C5113**

**C5114**

**C5115**

**C5116**

**C5117**

**C5118**

**C5119**

**C5120**

**C5121**

**C5122**

**C5123**

**C5124**

**C5125**

**C5126**

**C5127**

**C5128**

**C5129**

**C5130**

**C5131**

**C5132**

**C5133**

**C5134**

**C5135**

**C5136**

**C5137**

**C5138**

**C5139**

**C5140**

**C5141**

**C5142**

**C5143**

**C5144**

**C5145**

**C5146**

**C5147**

**C5148**

**C5149**

**C5150**

**C5151**

**C5152**

**C5153**

**C5154**

**C5155**

**C5156**

**C5157**

**C5158**

**C5159**

**C5160**

**C5161**

**C5162**

**C5163**

**C5164**

**C5165**

**C5166**

**C5167**

**C5168**

**C5169**

**C5170**

**C5171**

**C5172**

**C5173**

**C5174**

**C5175**

**C5176**

**C5177**

**C5178**

**C5179**

**C5180**

**C5181**

**C5182**

**C5183**

**C5184**

**C5185**

**C5186**

**C5187**

**C5188**

**C5189**

**C5190**

**C5191**

**C5192**

**C5193**

**C5194**

**C5195**

**U3006**

**HDC7003**

**UCP721**

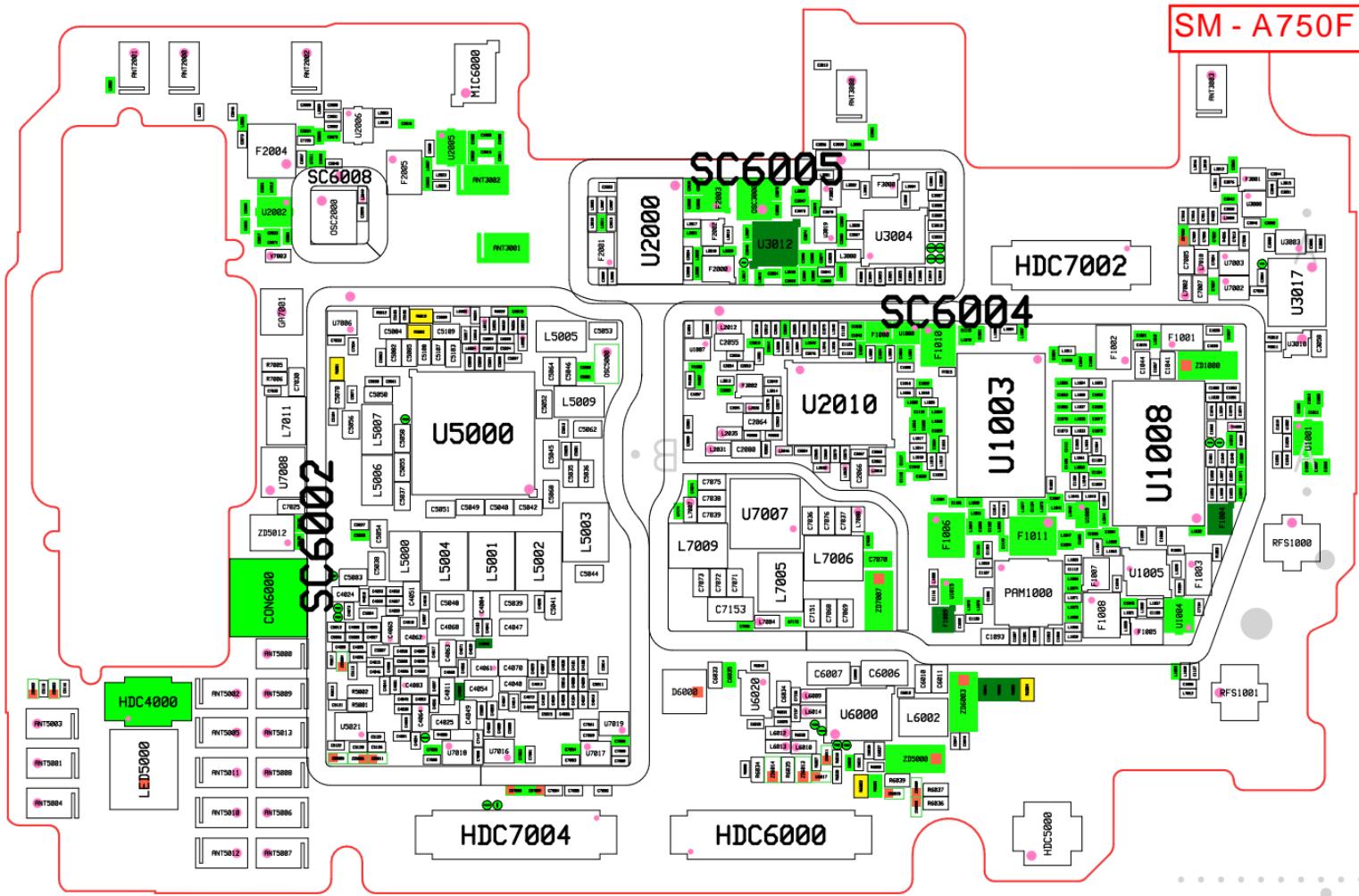
**HDC7001**

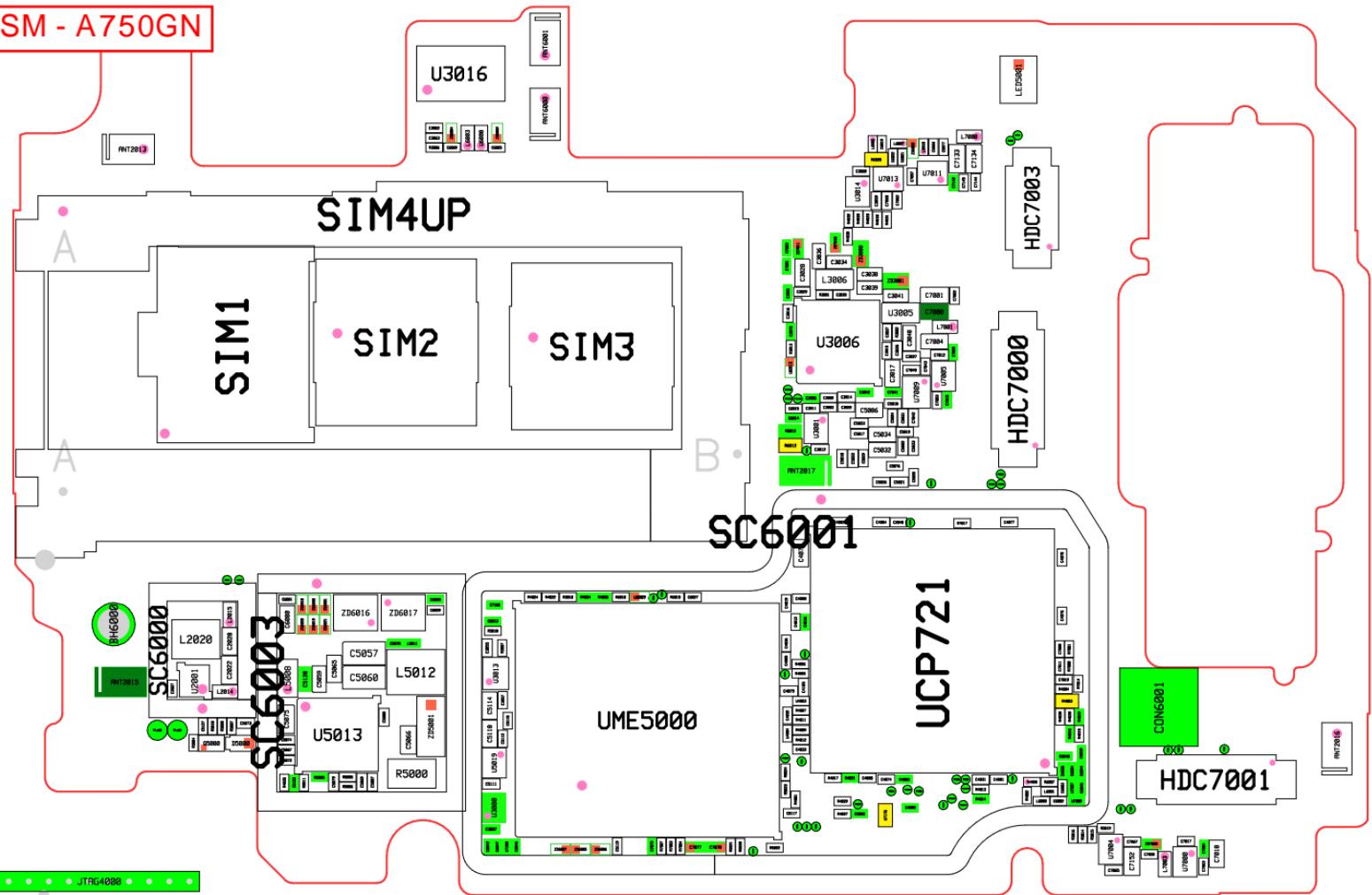
**C06981**

**RH7281**

**JTG4020**

**SM - A750F**







**SM - A750G**

**U3016**

**U3003  
U3004  
U3005**

**SIM4UP**

**SIM1**

**SIM2**

**SIM3**

A

A

**SC6001**

**UCP721**

**HDC7003**

**HDC7000**

**LEI2501**

**U3006**

**U3005  
U3004  
U3003  
U3002  
U3001**

**U3008  
U3007  
U3006  
U3005  
U3004  
U3003  
U3002  
U3001**

**U3009  
U3008  
U3007  
U3006  
U3005  
U3004  
U3003  
U3002  
U3001**

**U3010  
U3009  
U3008  
U3007  
U3006  
U3005  
U3004  
U3003  
U3002  
U3001**

**U3011  
U3010  
U3009  
U3008  
U3007  
U3006  
U3005  
U3004  
U3003  
U3002  
U3001**

**U3012  
U3011  
U3010  
U3009  
U3008  
U3007  
U3006  
U3005  
U3004  
U3003  
U3002  
U3001**

**U3013  
U3012  
U3011  
U3010  
U3009  
U3008  
U3007  
U3006  
U3005  
U3004  
U3003  
U3002  
U3001**

**U3014  
U3013  
U3012  
U3011  
U3010  
U3009  
U3008  
U3007  
U3006  
U3005  
U3004  
U3003  
U3002  
U3001**

**U3015  
U3014  
U3013  
U3012  
U3011  
U3010  
U3009  
U3008  
U3007  
U3006  
U3005  
U3004  
U3003  
U3002  
U3001**

**RHE002**

**SC6000**

**L2020**

**L2001**

**C5002**

**C5003**

**C5004**

**ZD6816**

**ZD6817**

**C5057**

**C5068**

**L5012**

**R5000**

**ZD6818**

**C5064**

**C5065**

**C5066**

**C5067**

**C5068**

**C5069**

**C5070**

**C5071**

**C5072**

**C5073**

**C5074**

**C5075**

**C5076**

**SC6003**

**U5013**

**U5014**

**U5015**

**U5016**

**U5017**

**U5018**

**U5019**

**U5020**

**U5021**

**U5022**

**U5023**

**U5024**

**UME5000**

**CON6801**

**U3001**

**U3002**

**U3003**

**U3004**

**U3005**

**U3006**

**U3007**

**U3008**

**U3009**

**U300A**

**U300B**

**U300C**

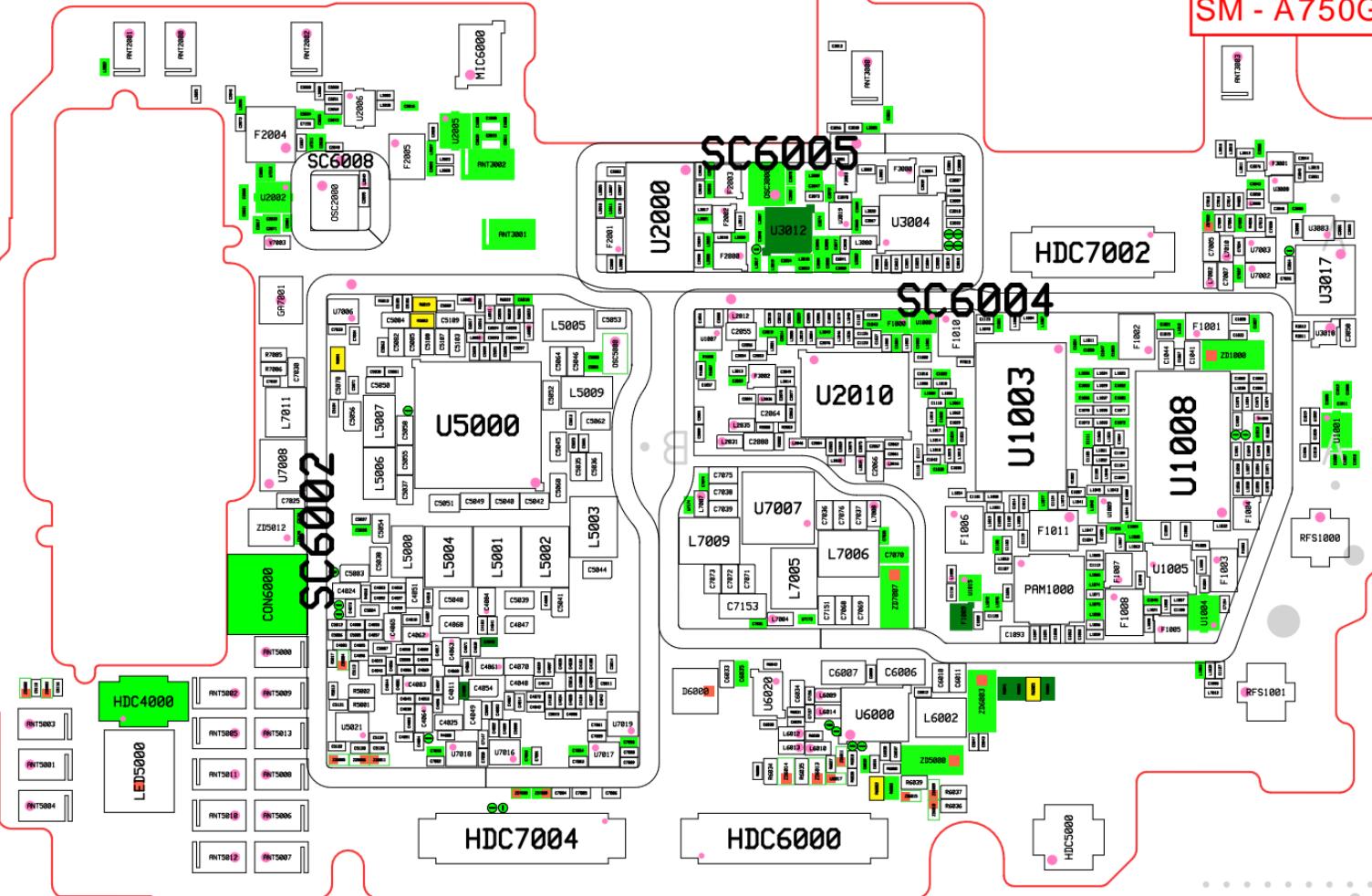
**U300D**

**U300E**

JTG4000

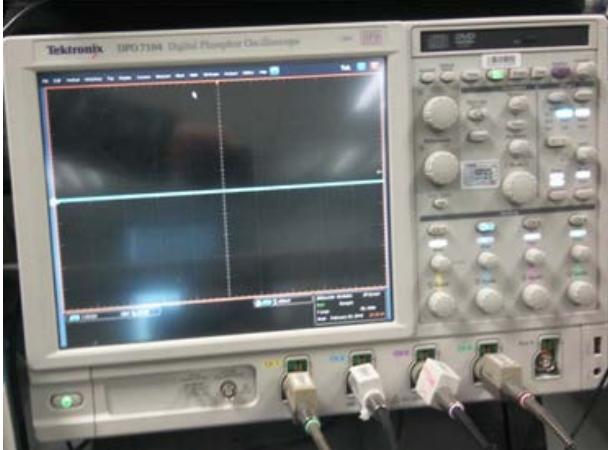
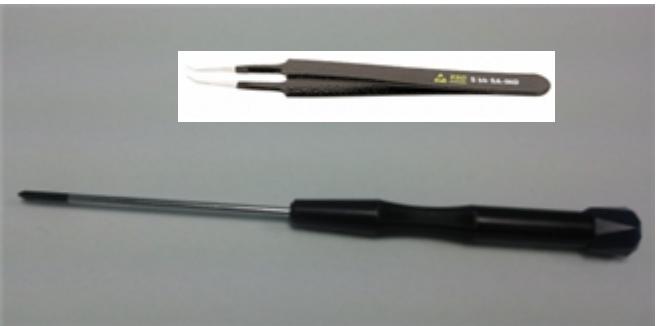
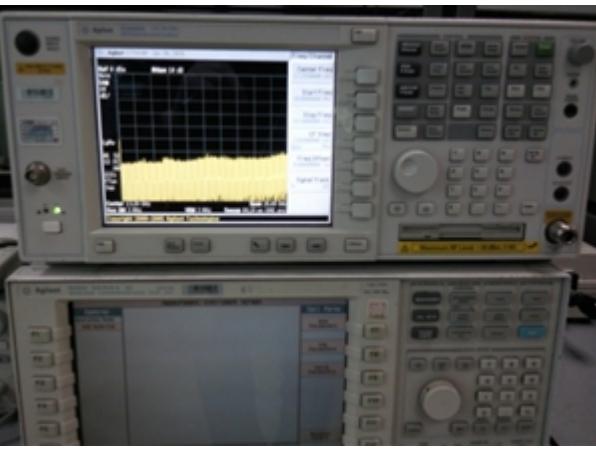
SM - A750G

SC6002



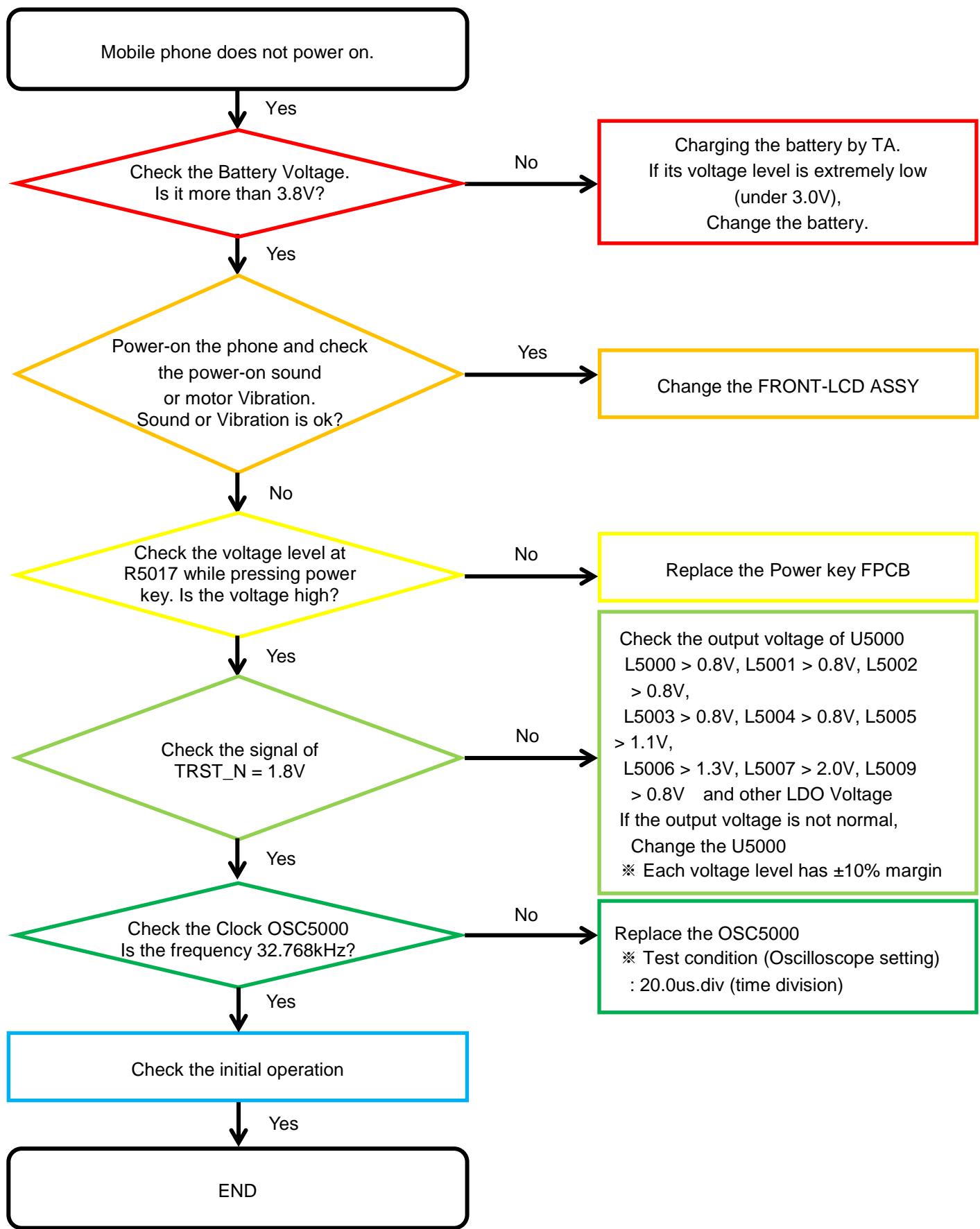
## 8. Level 3 Repair

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

	
<b>Oscilloscope</b>	<b>Digital Multimeter</b>
	
<b>Power Supply</b>	<b>+ driver, ESD Safe Tweezer</b>
	
<b>8960 &amp; Spectrum Analyzer</b>	<b>Soldering iron</b>

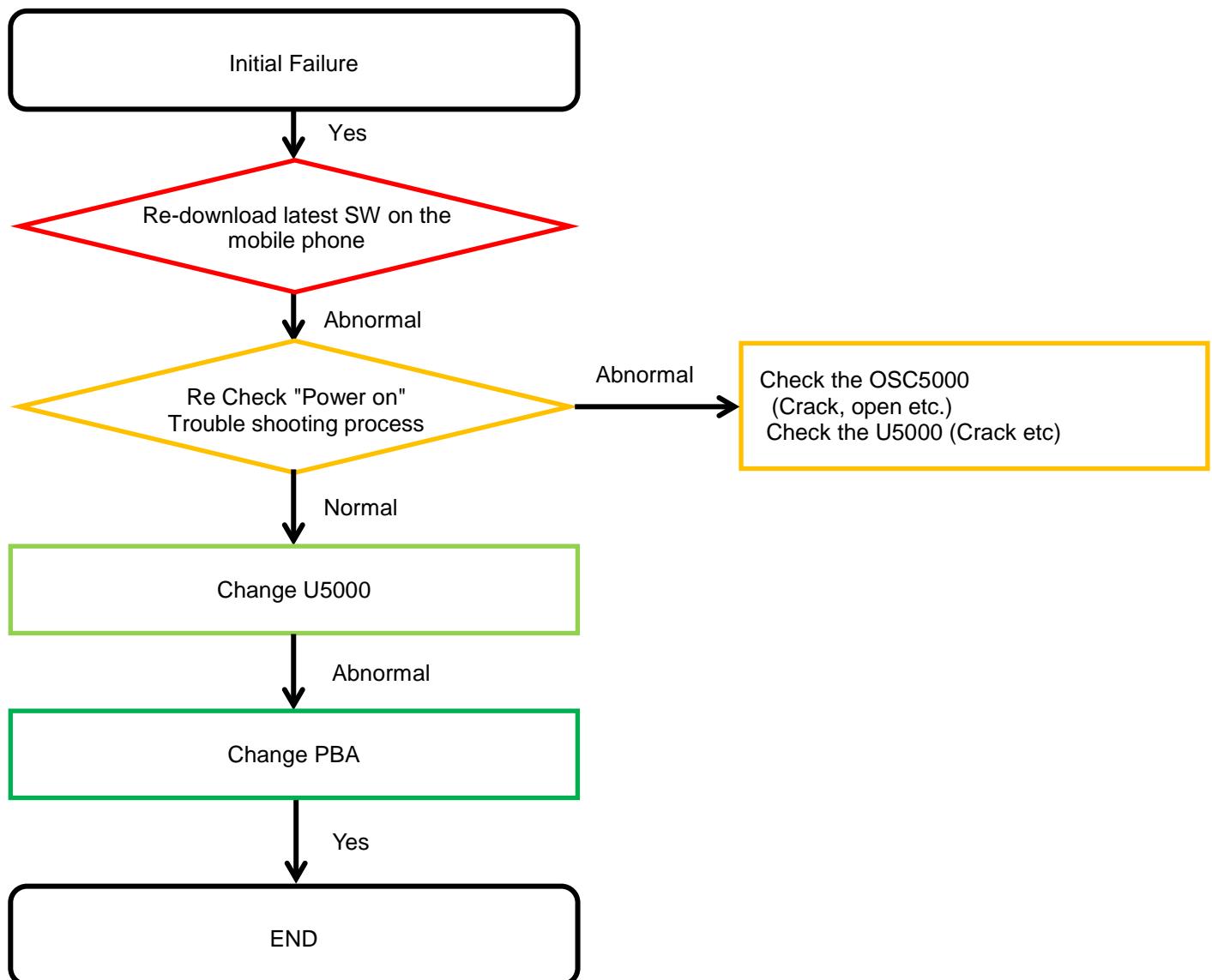
## 8. Level 3 Repair

### 8-4-1. Power On



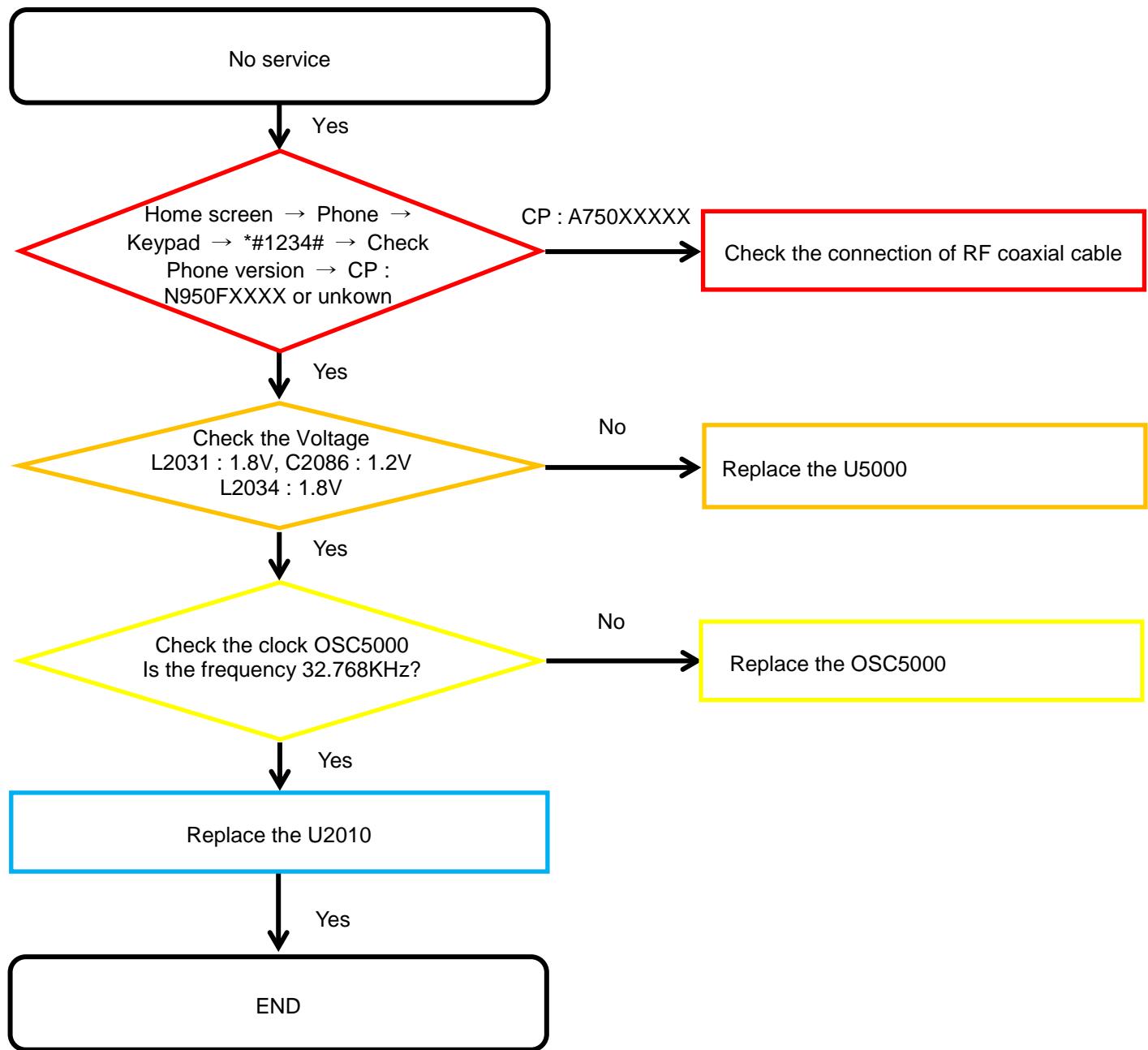
## 8. Level 3 Repair

### 8-4-2. Initial



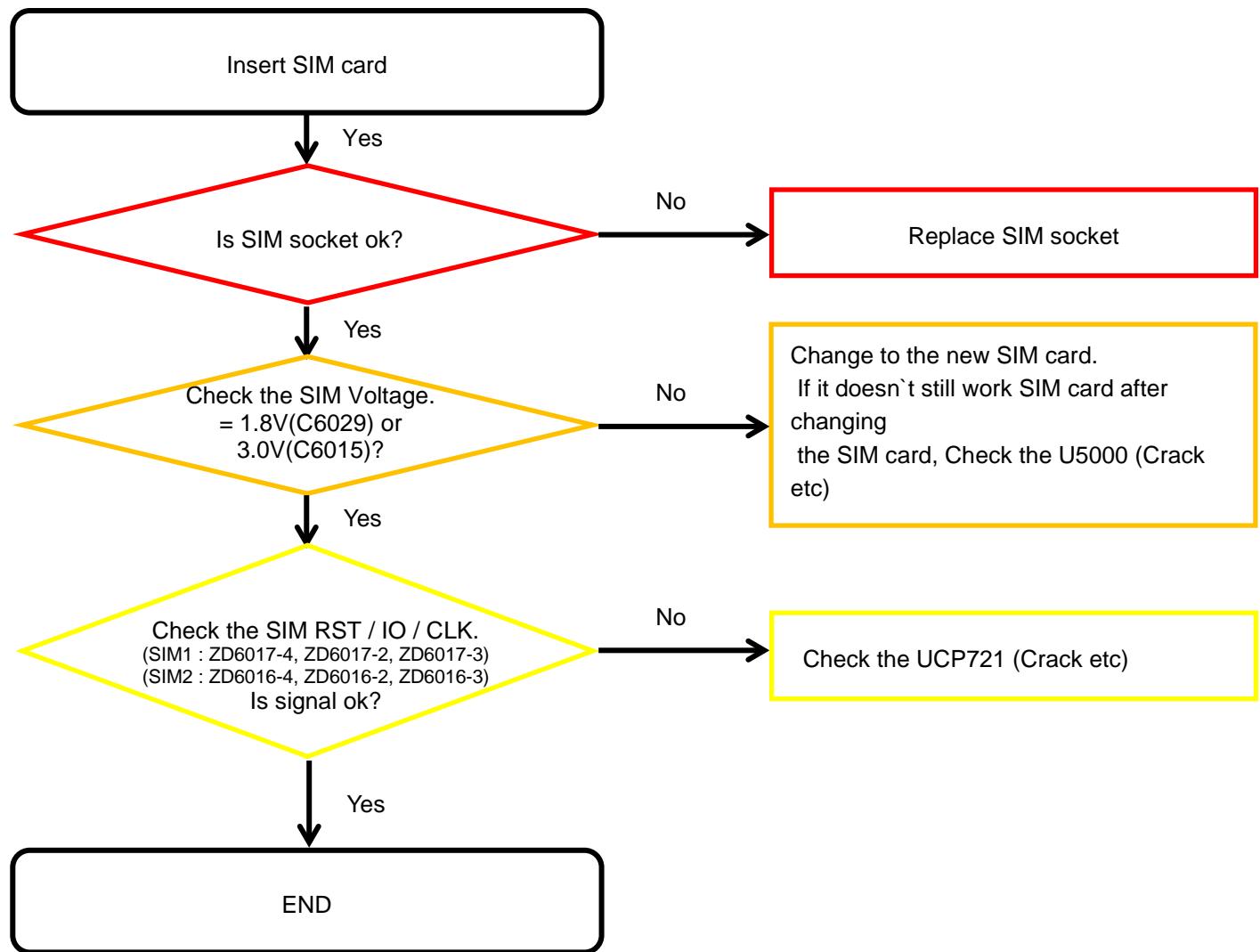
## 8. Level 3 Repair

### 8-4-3. No Service



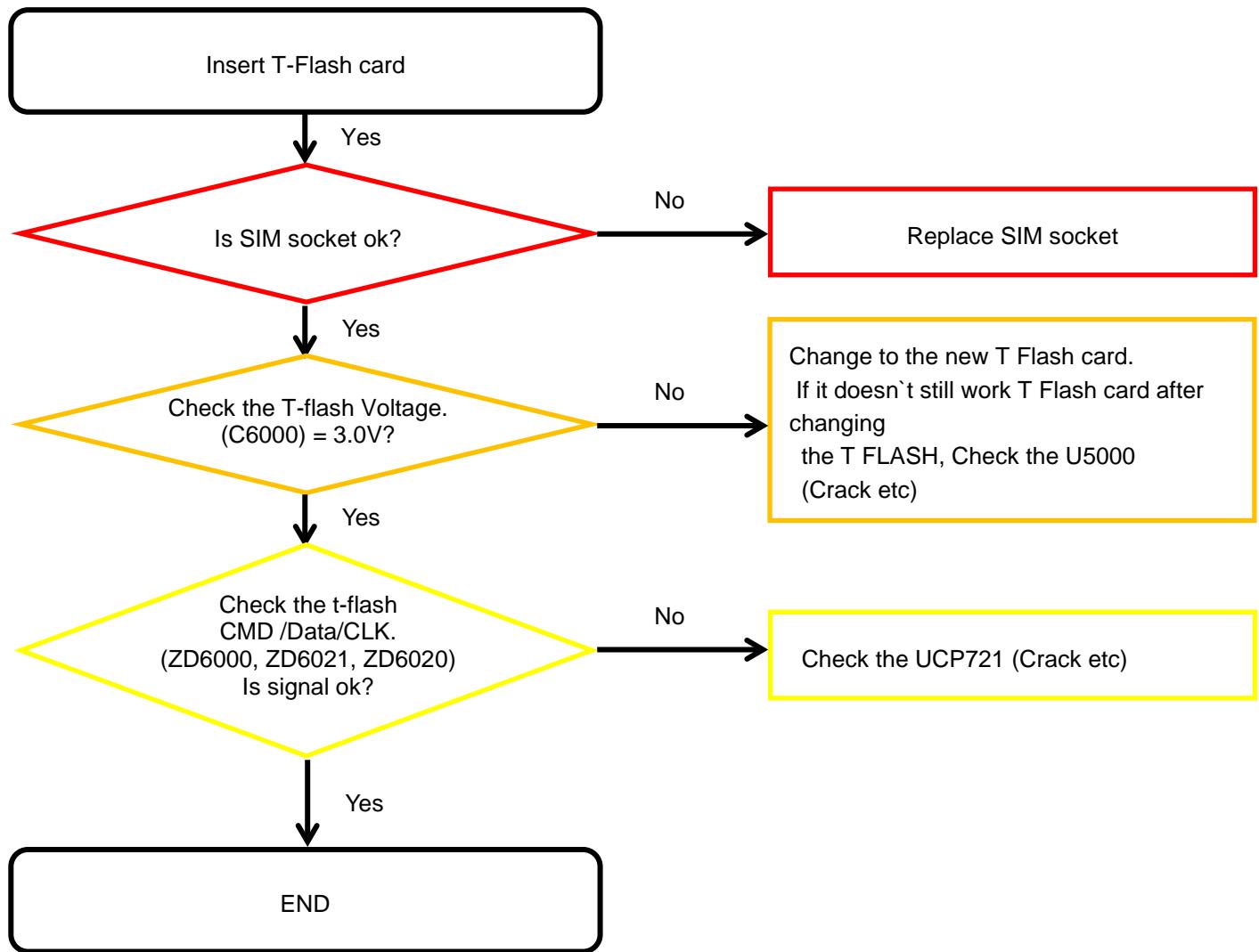
## 8. Level 3 Repair

### 8-4-4. SIM Part



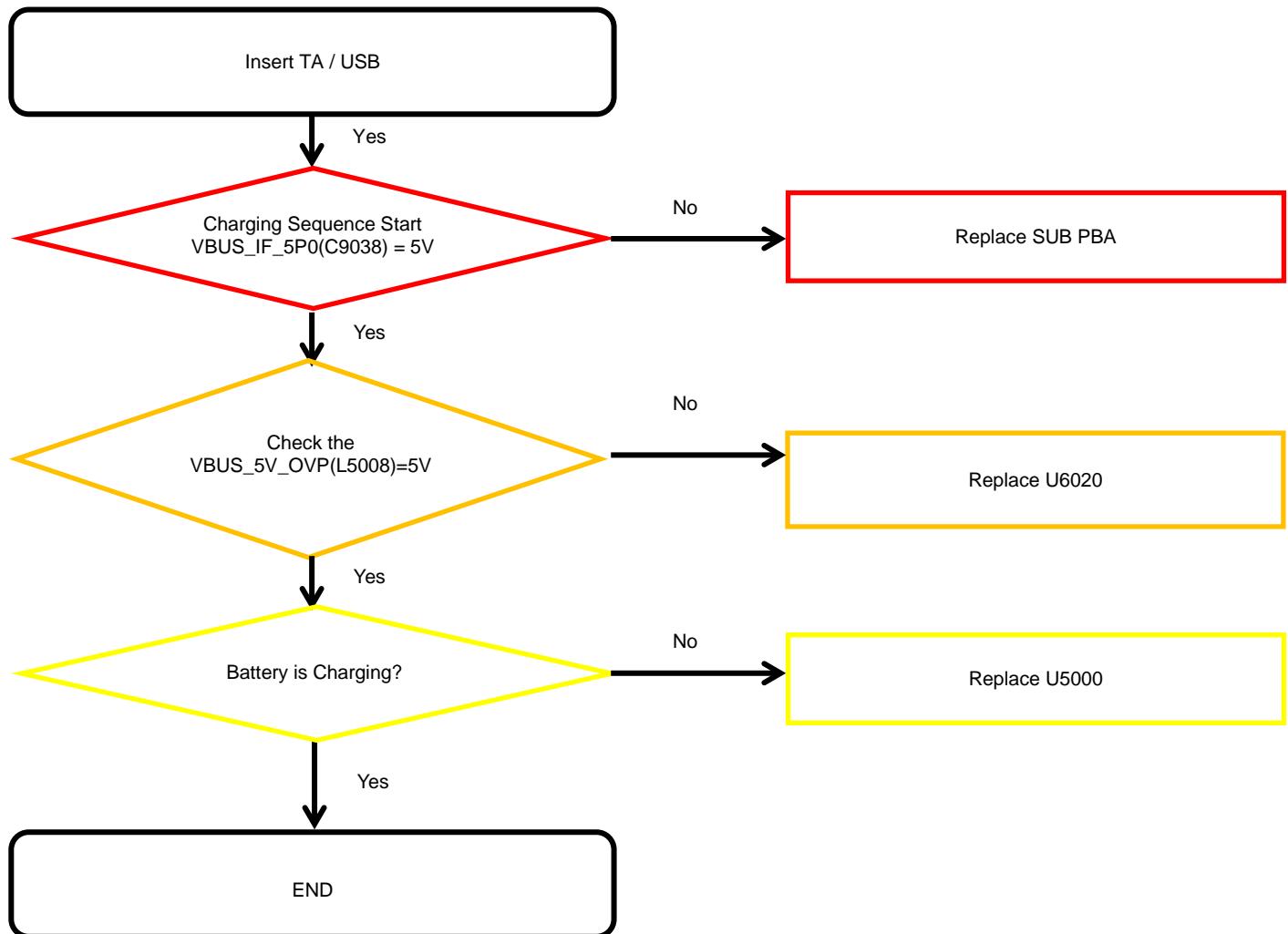
## 8. Level 3 Repair

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



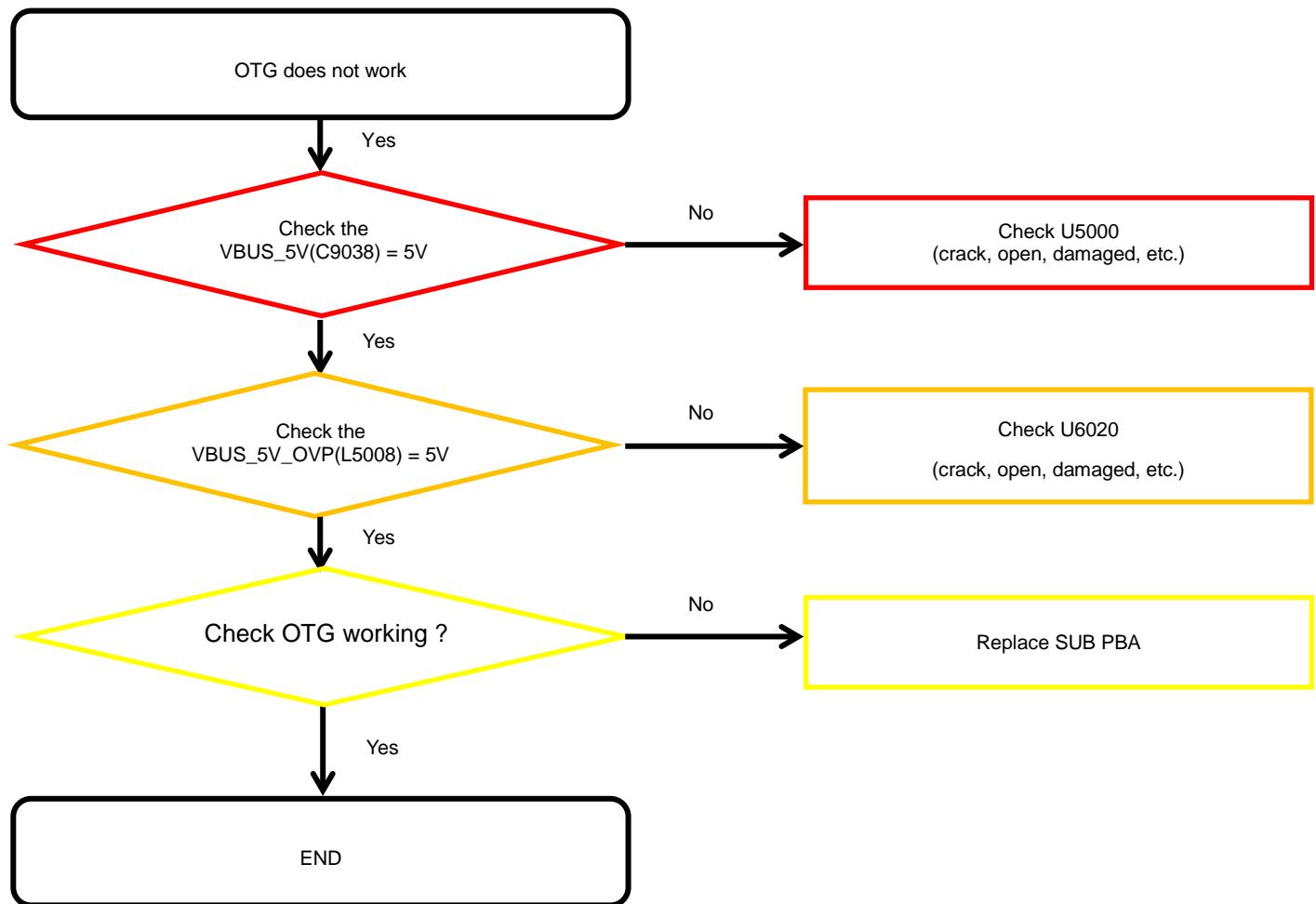
## 8. Level 3 Repair

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



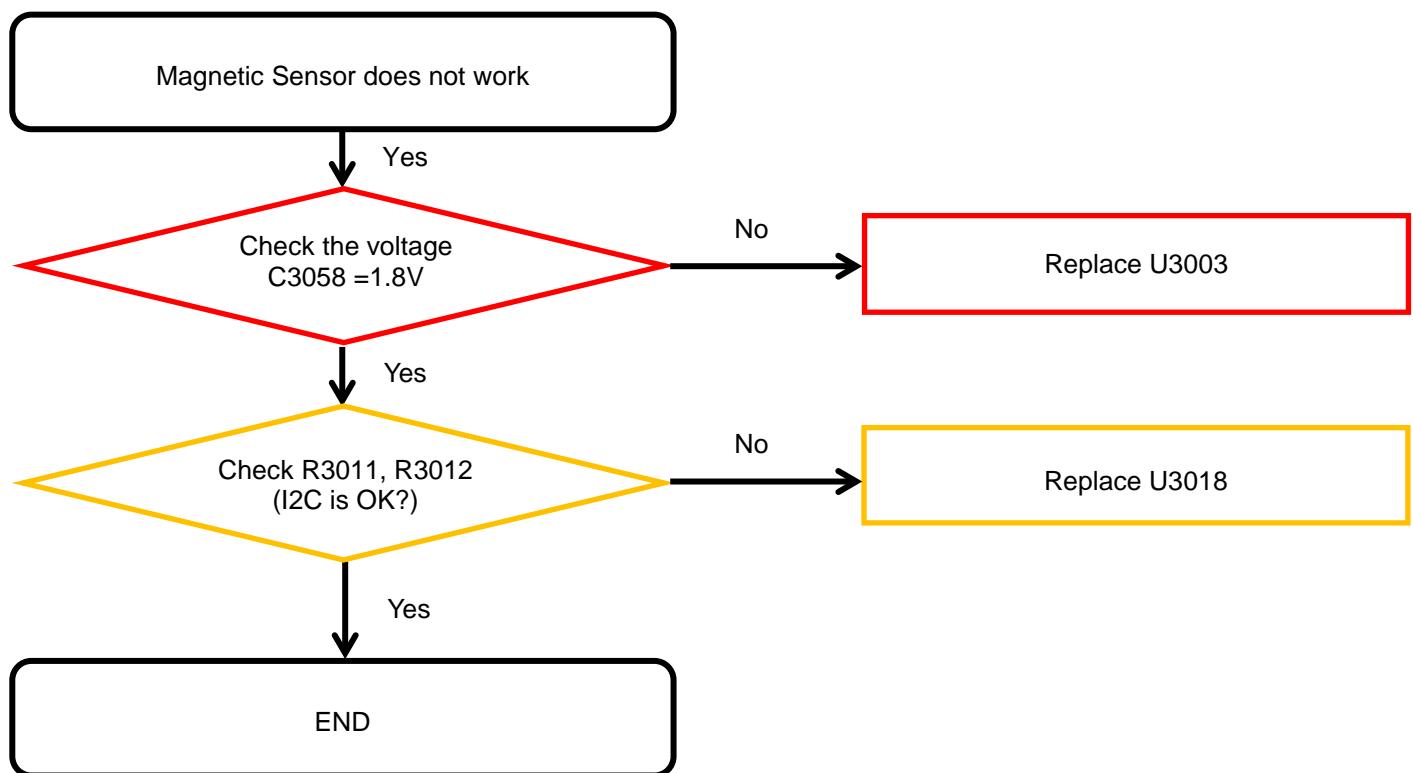
## 8. Level 3 Repair

### 8-4-7. OTG



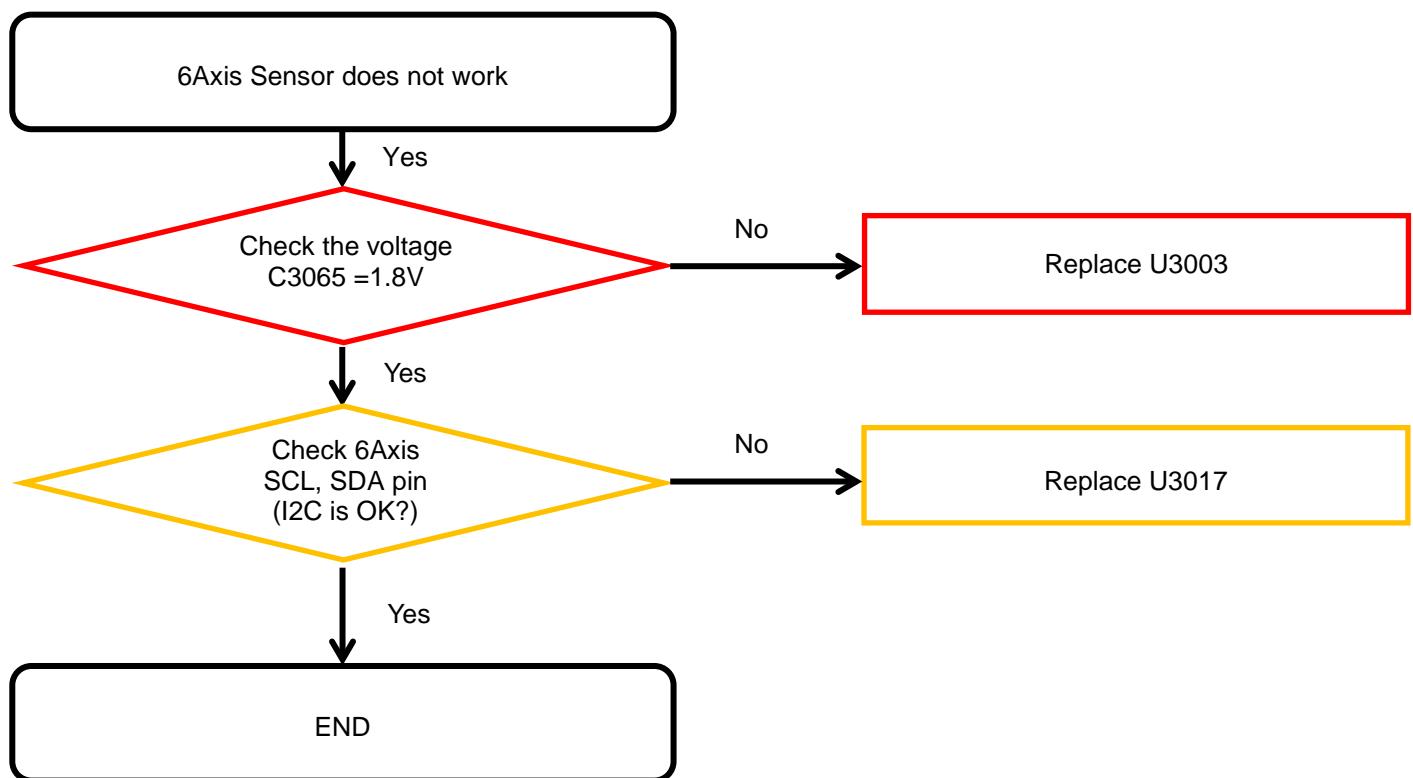
## 8. Level 3 Repair

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



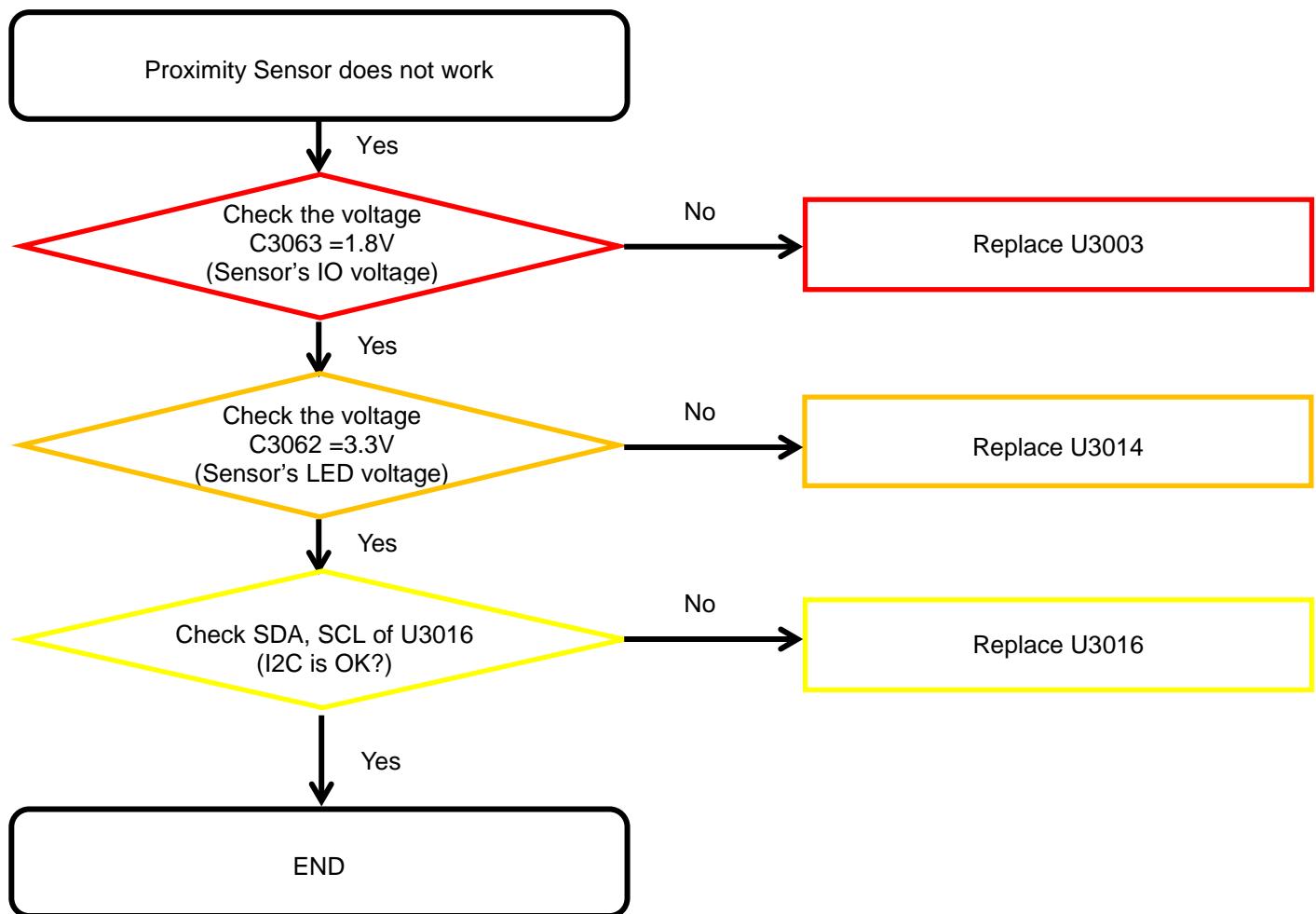
## 8. Level 3 Repair

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



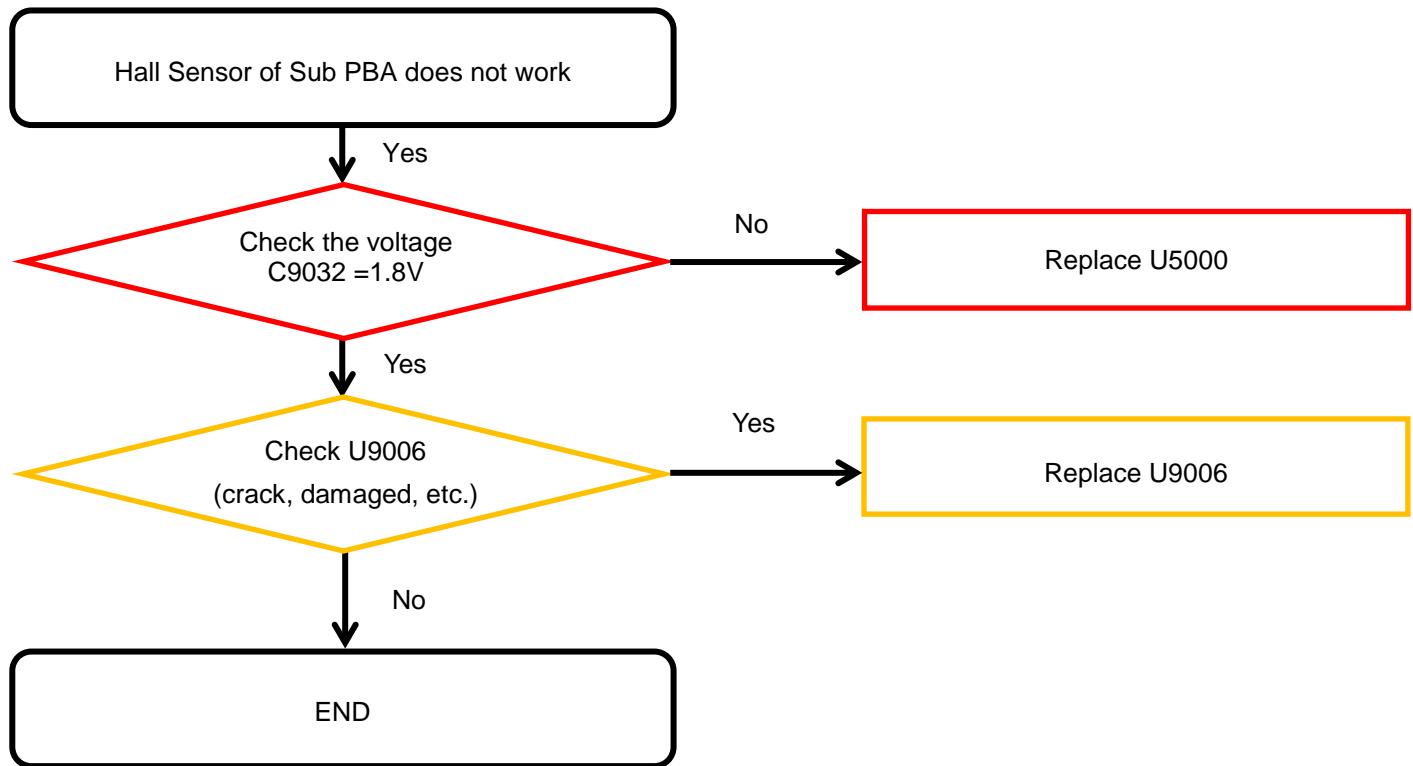
## 8. Level 3 Repair

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



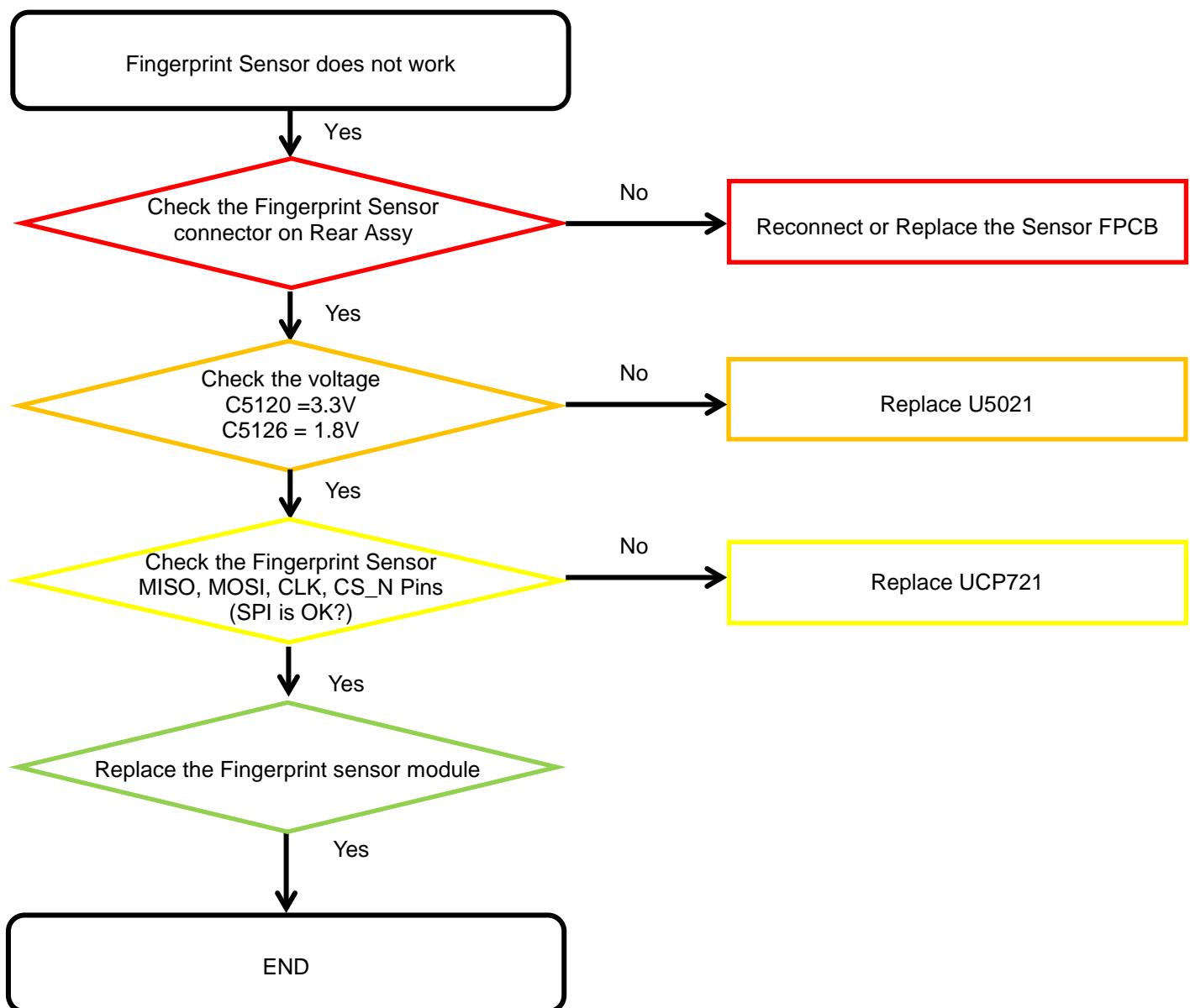
## 8. Level 3 Repair

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



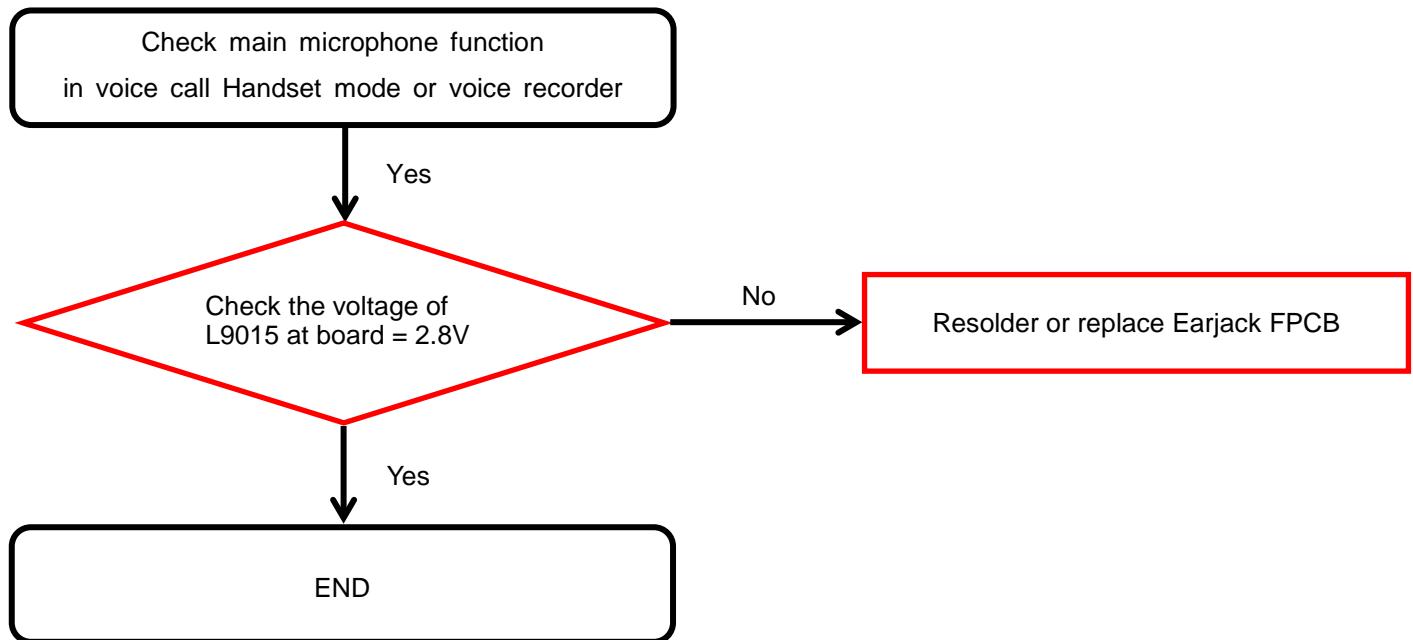
## 8. Level 3 Repair

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



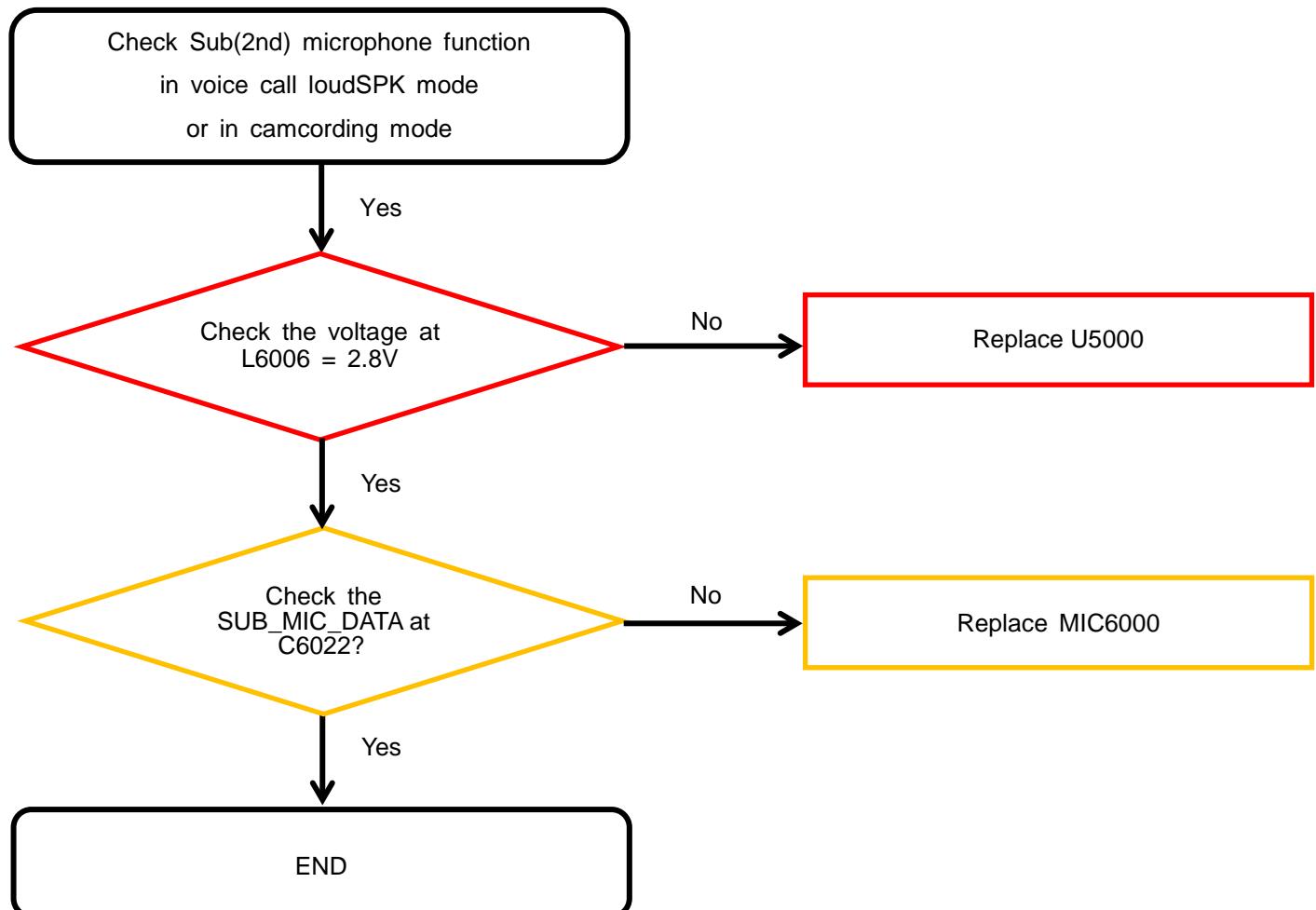
## 8. Level 3 Repair

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



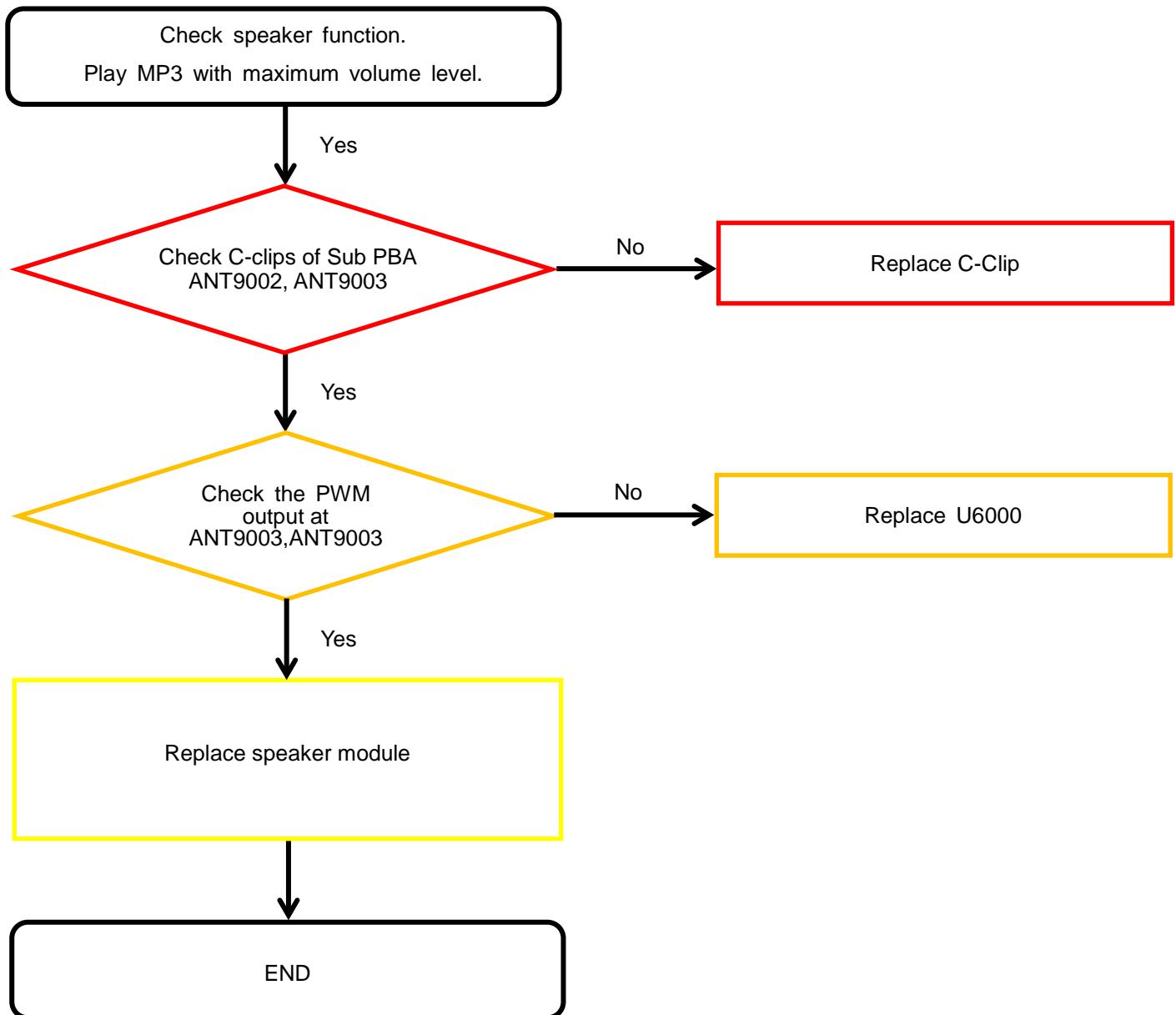
## 8. Level 3 Repair

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



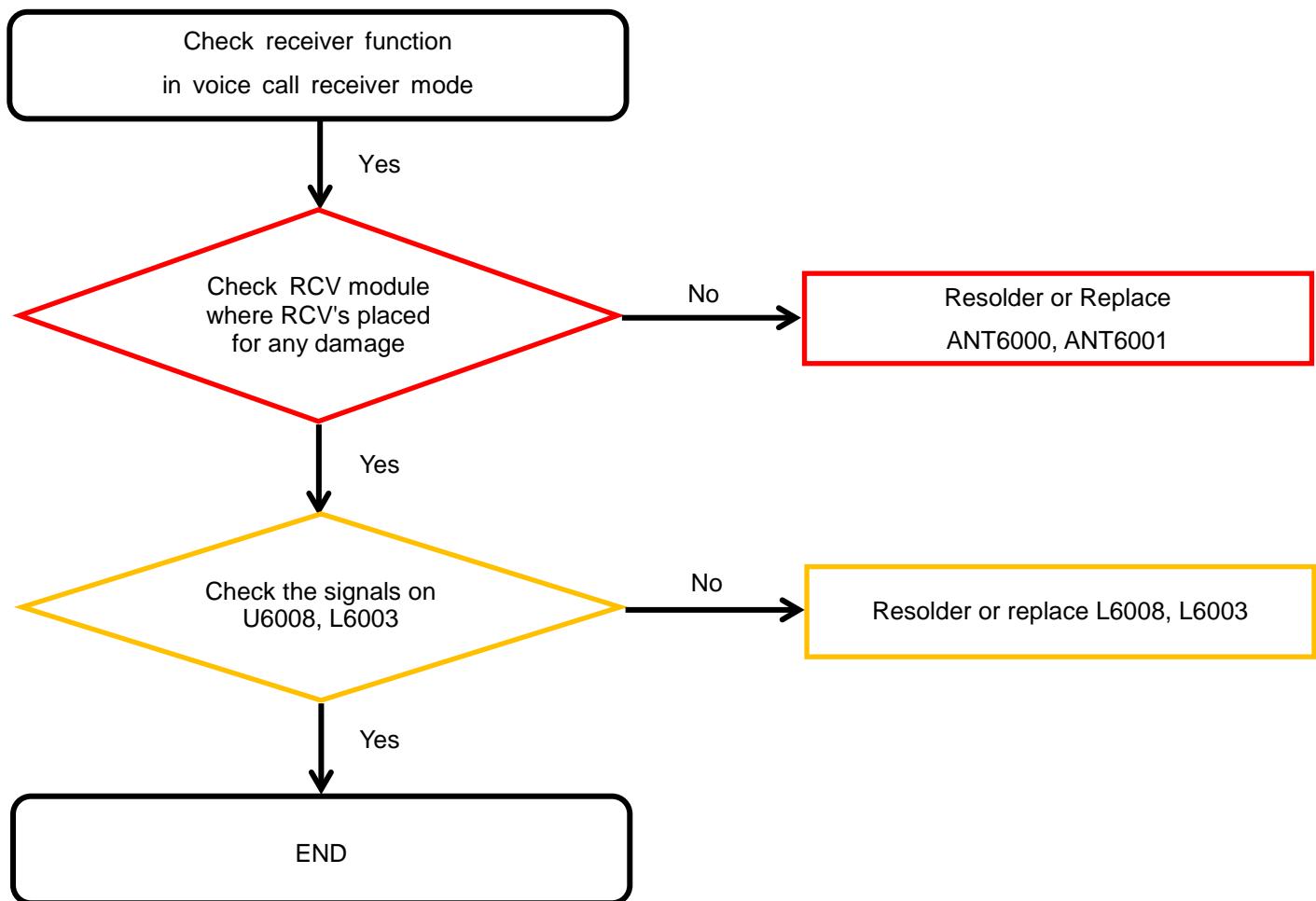
## 8. Level 3 Repair

### 8-4-10. Speaker Part



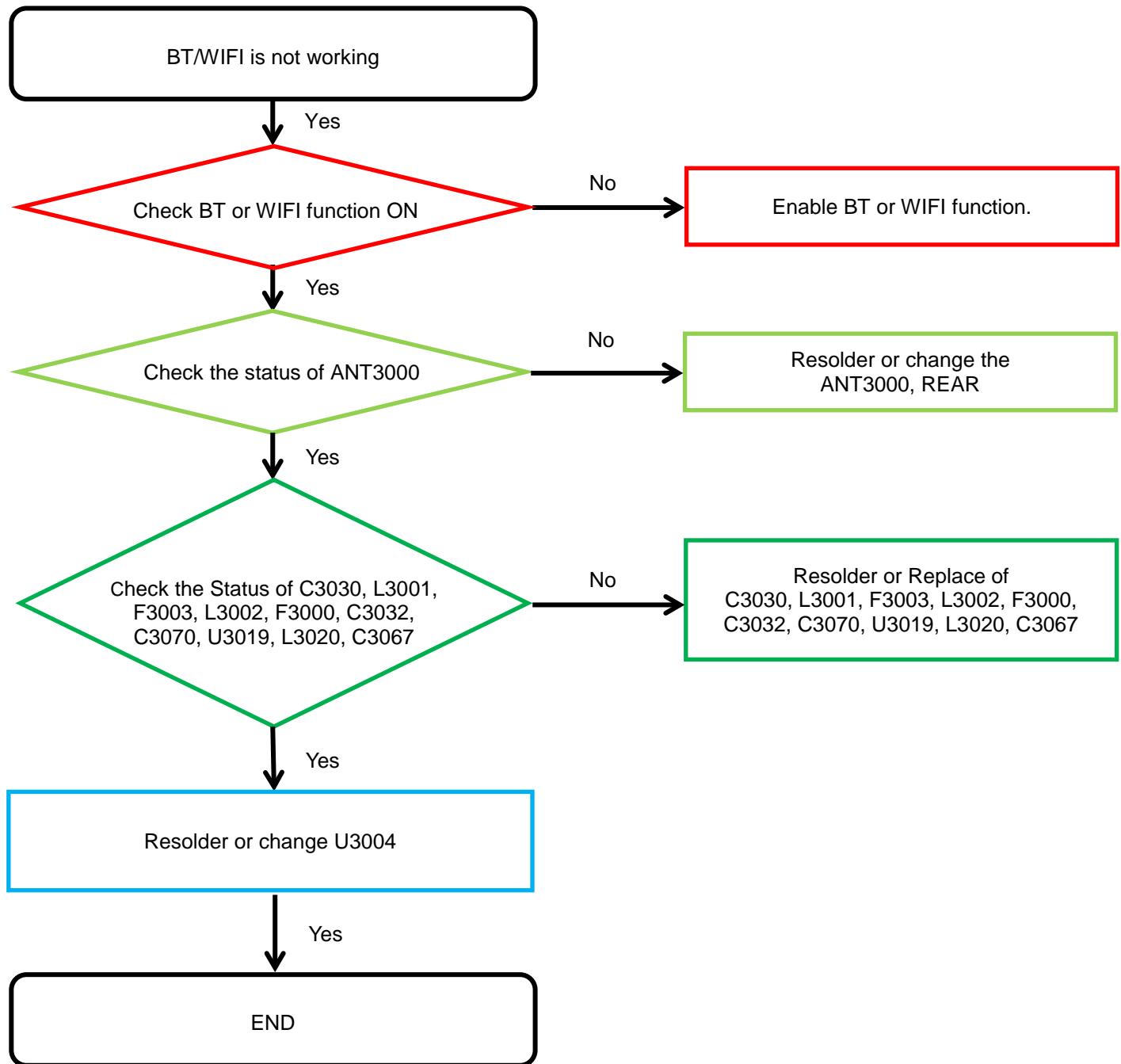
## 8. Level 3 Repair

### 8-4-11. Receiver Part



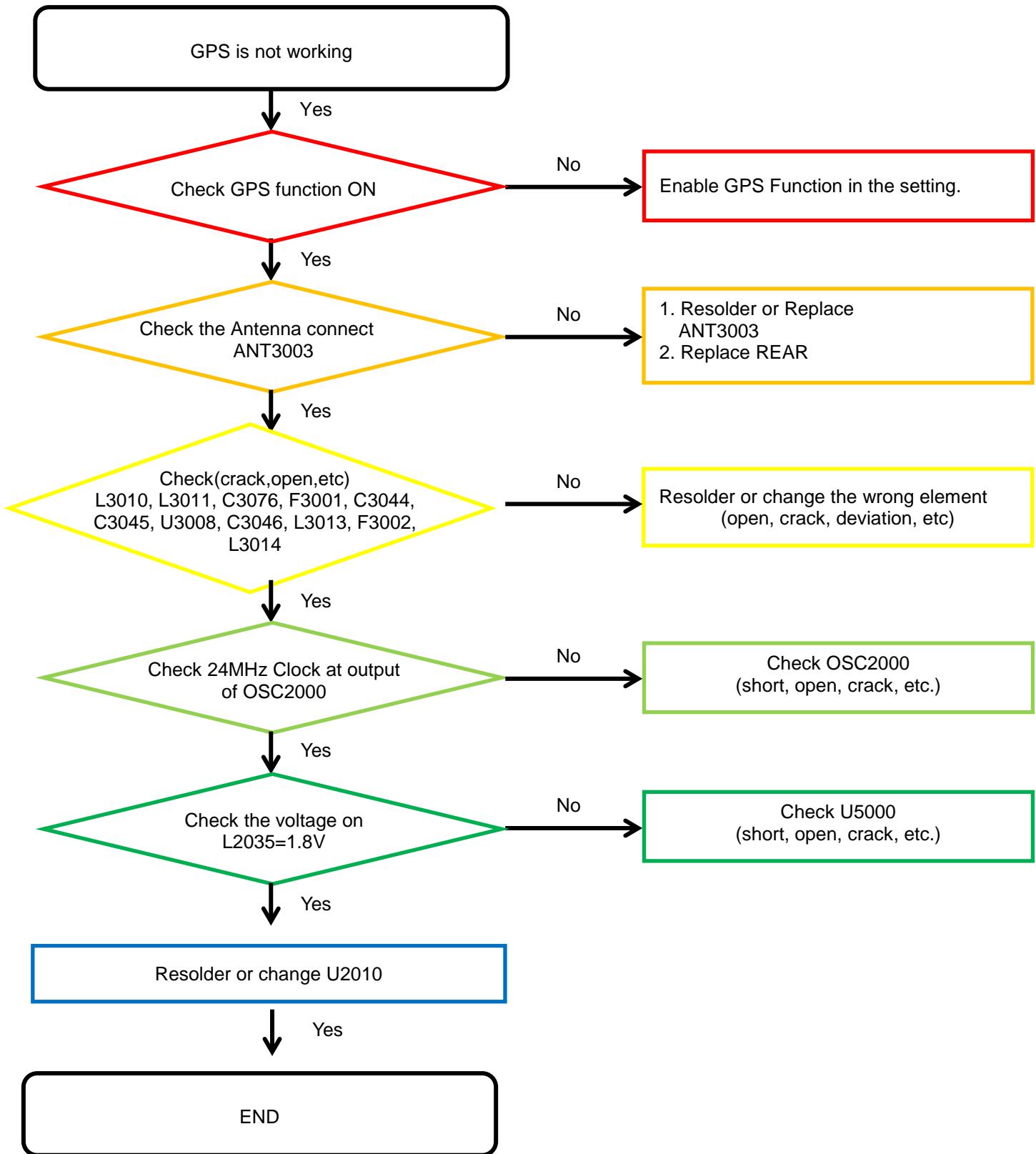
## 8. Level 3 Repair

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



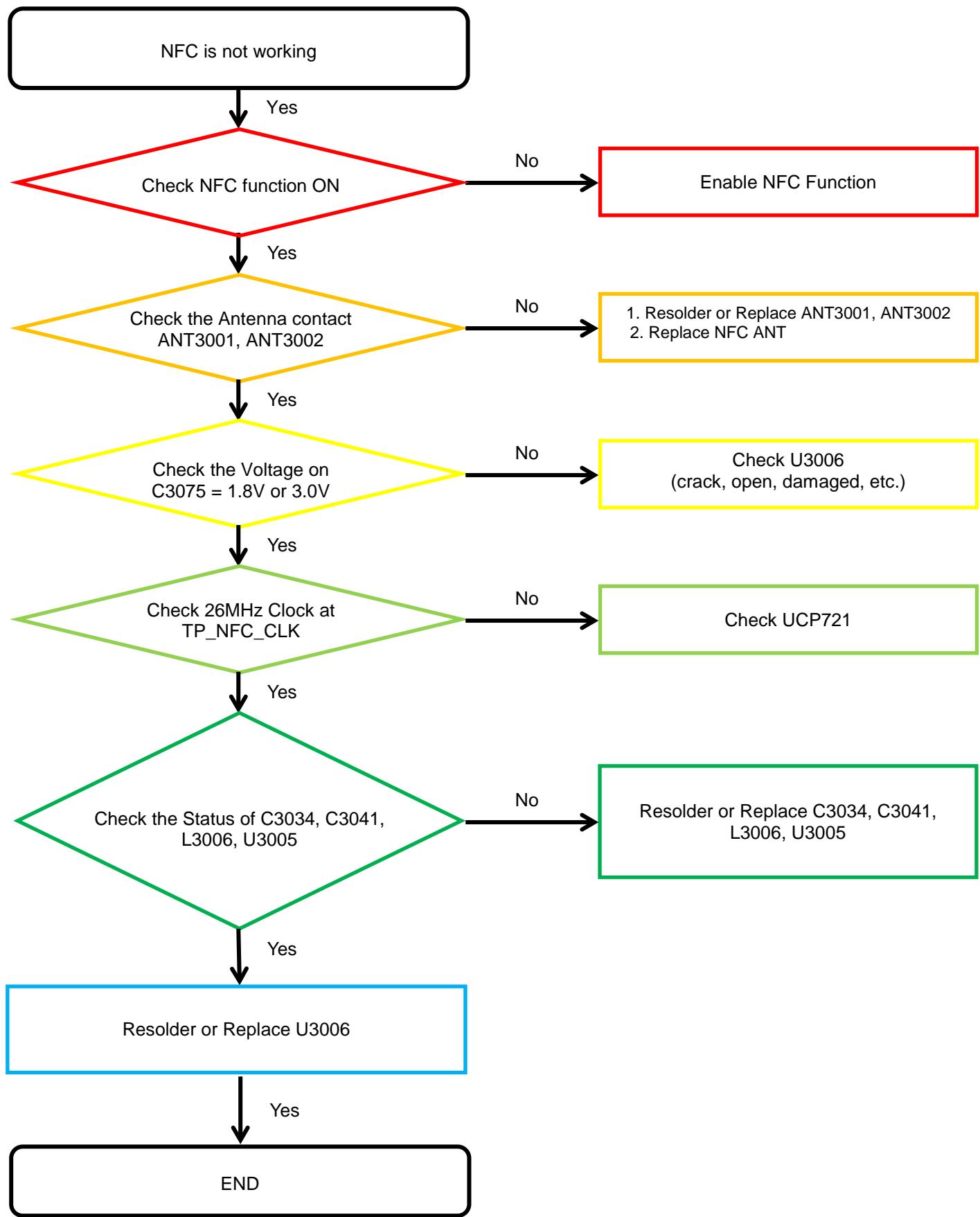
## 8. Level 3 Repair

### 8-4-13. GPS



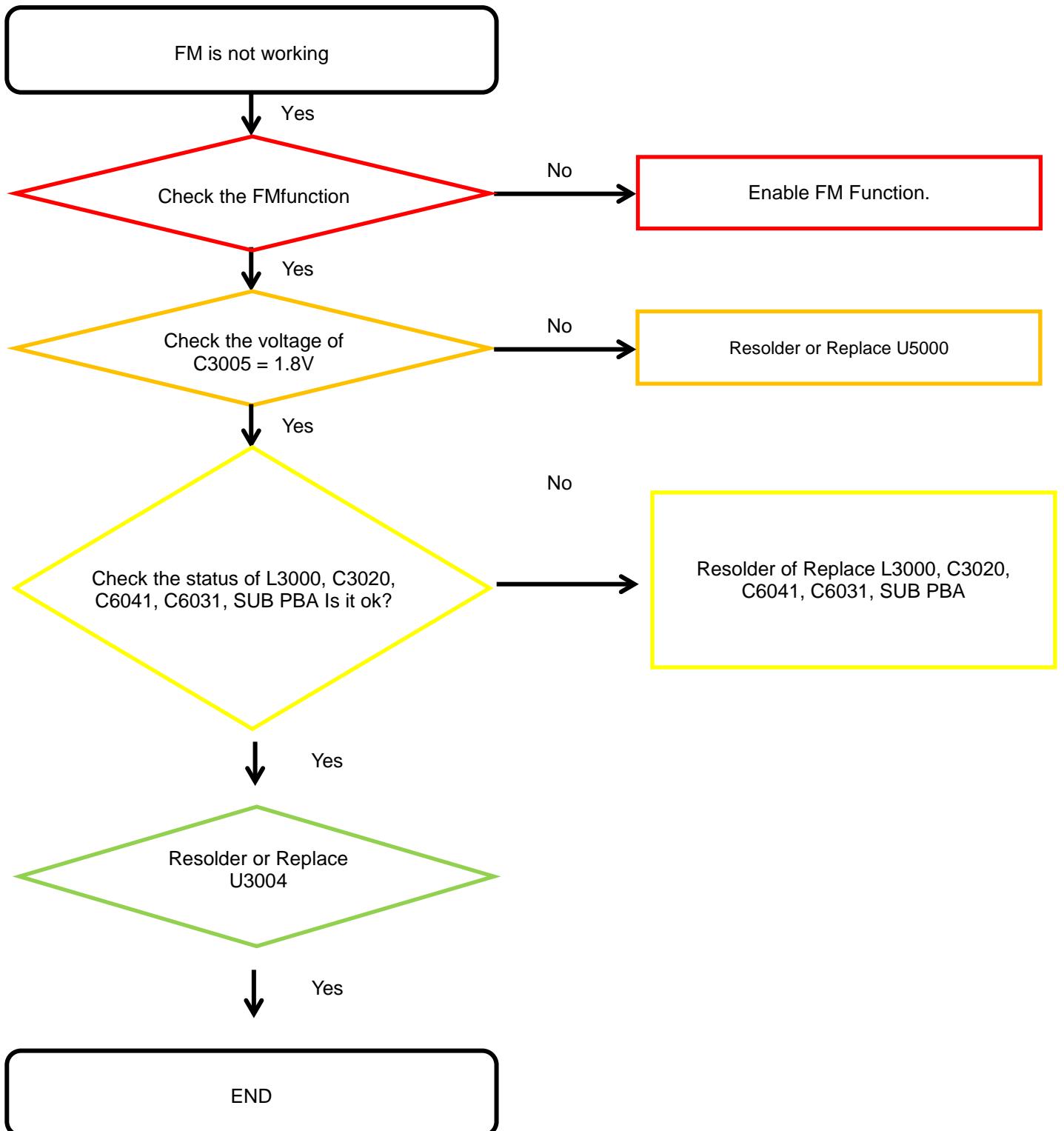
## 8. Level 3 Repair

### 8-4-14. NFC



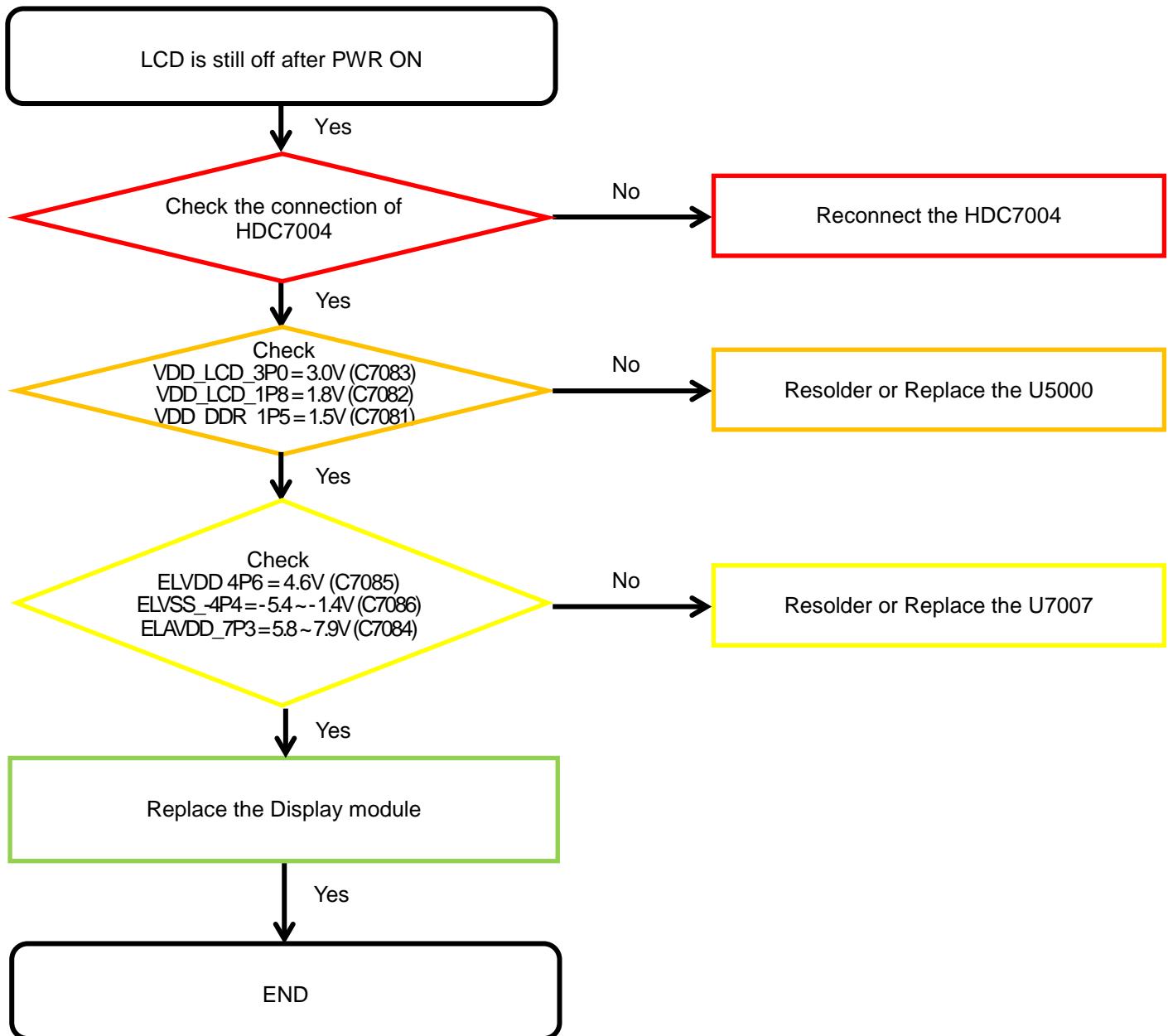
## 8. Level 3 Repair

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



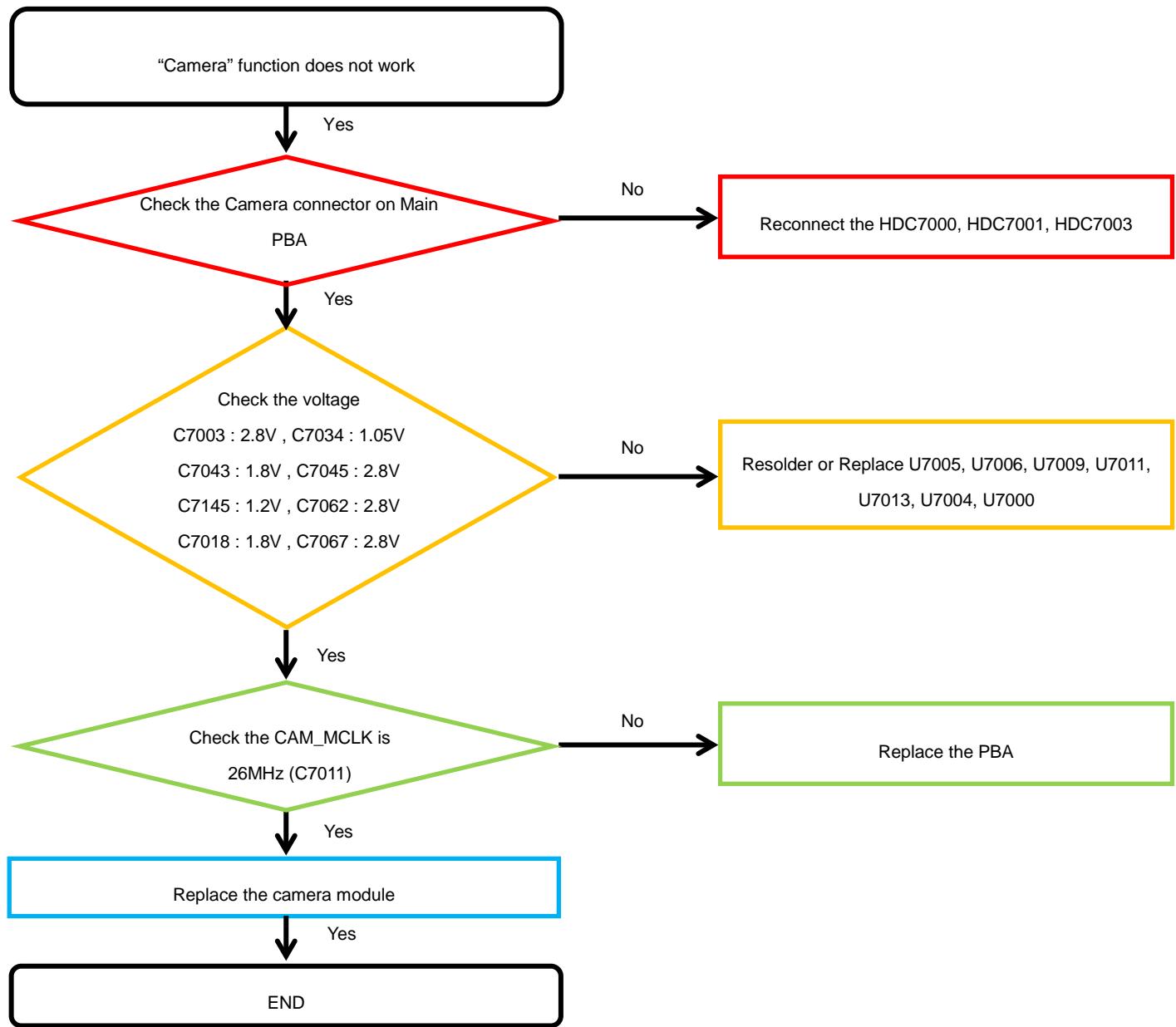
## 8. Level 3 Repair

### 8-4-16. Display



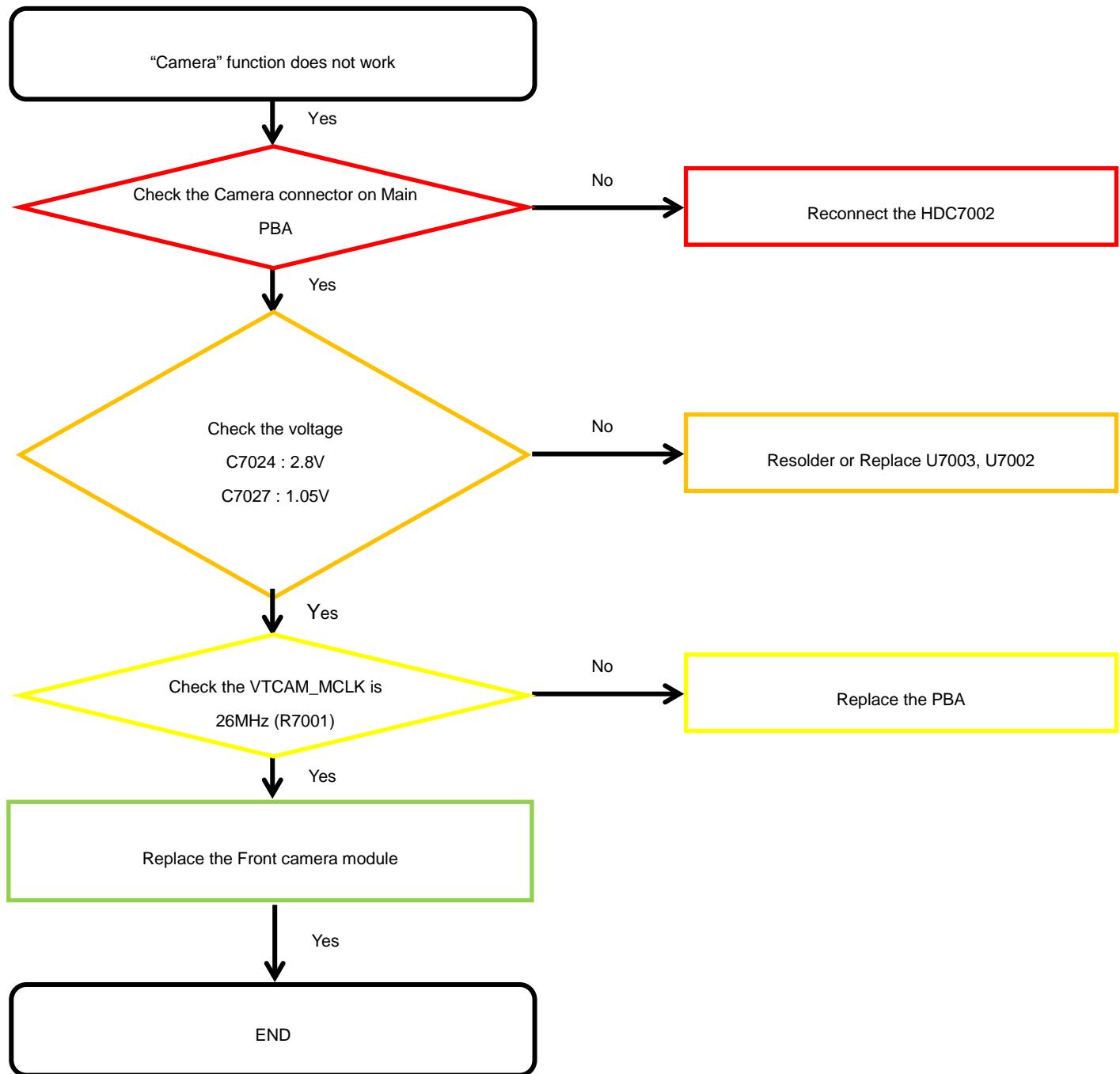
## 8. Level 3 Repair

### 8-4-17. Triple Camera



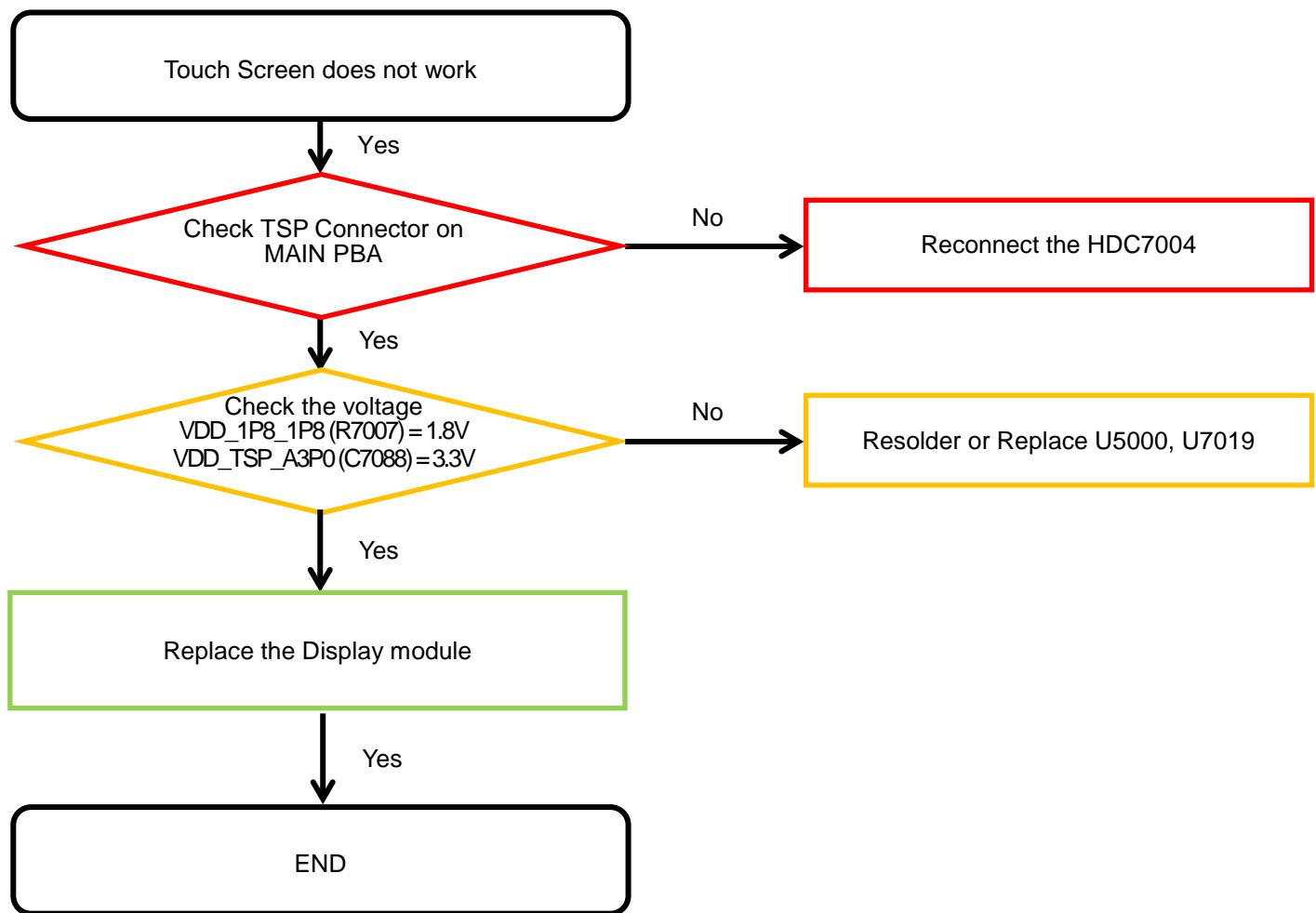
## 8. Level 3 Repair

### 8-4-18. VT CAMERA



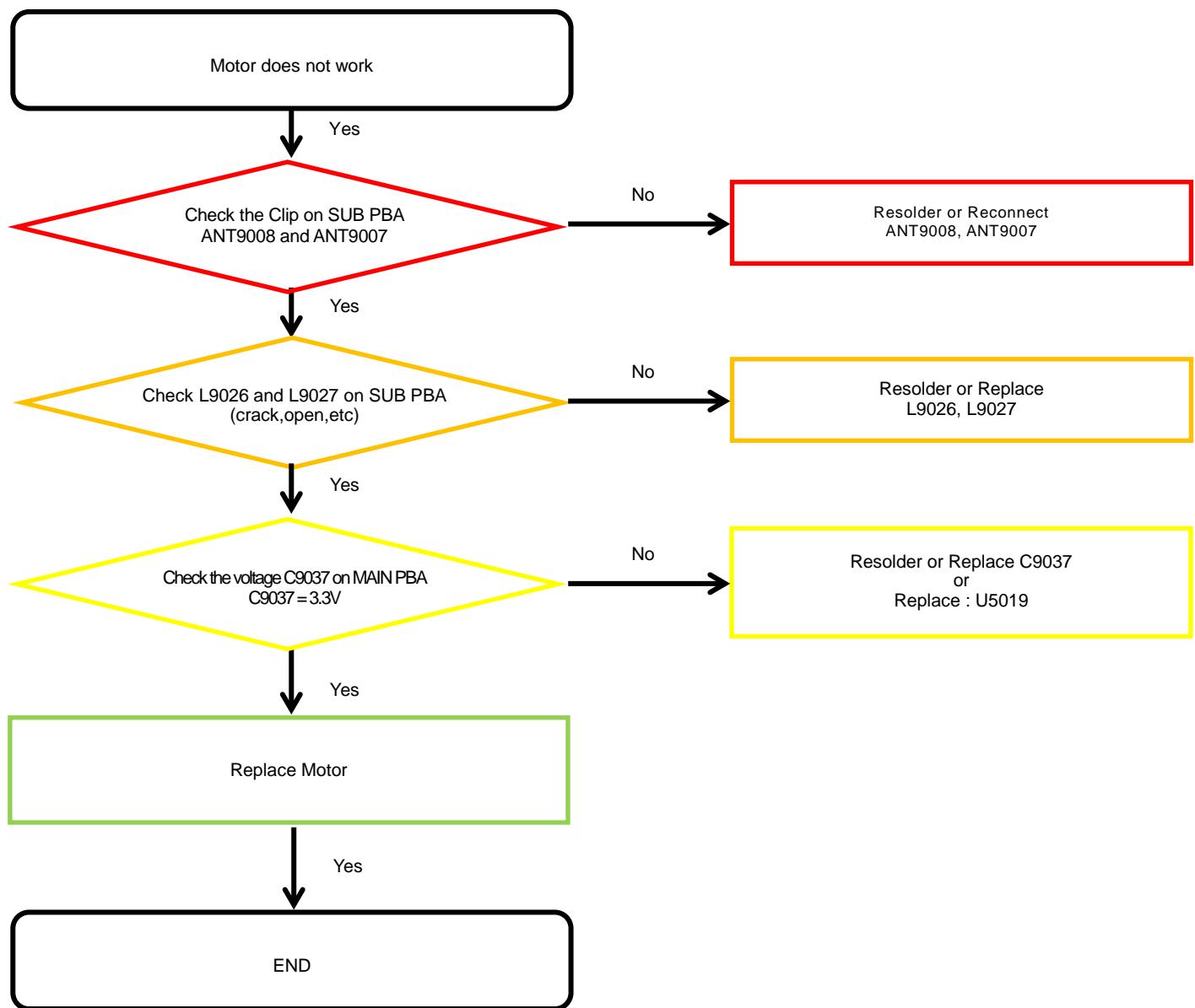
## 8. Level 3 Repair

### 8-4-19. TSP



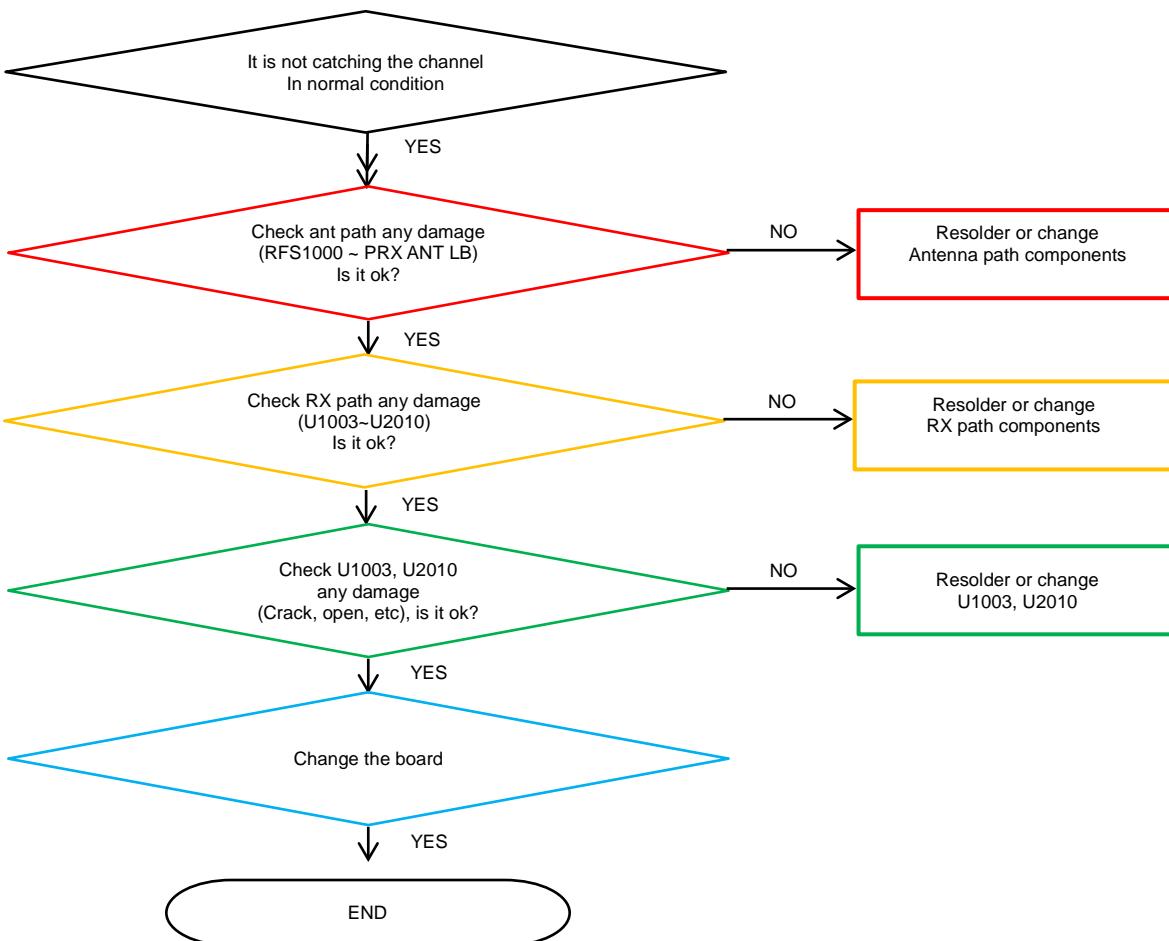
## 8. Level 3 Repair

### 8-4-20. Motor



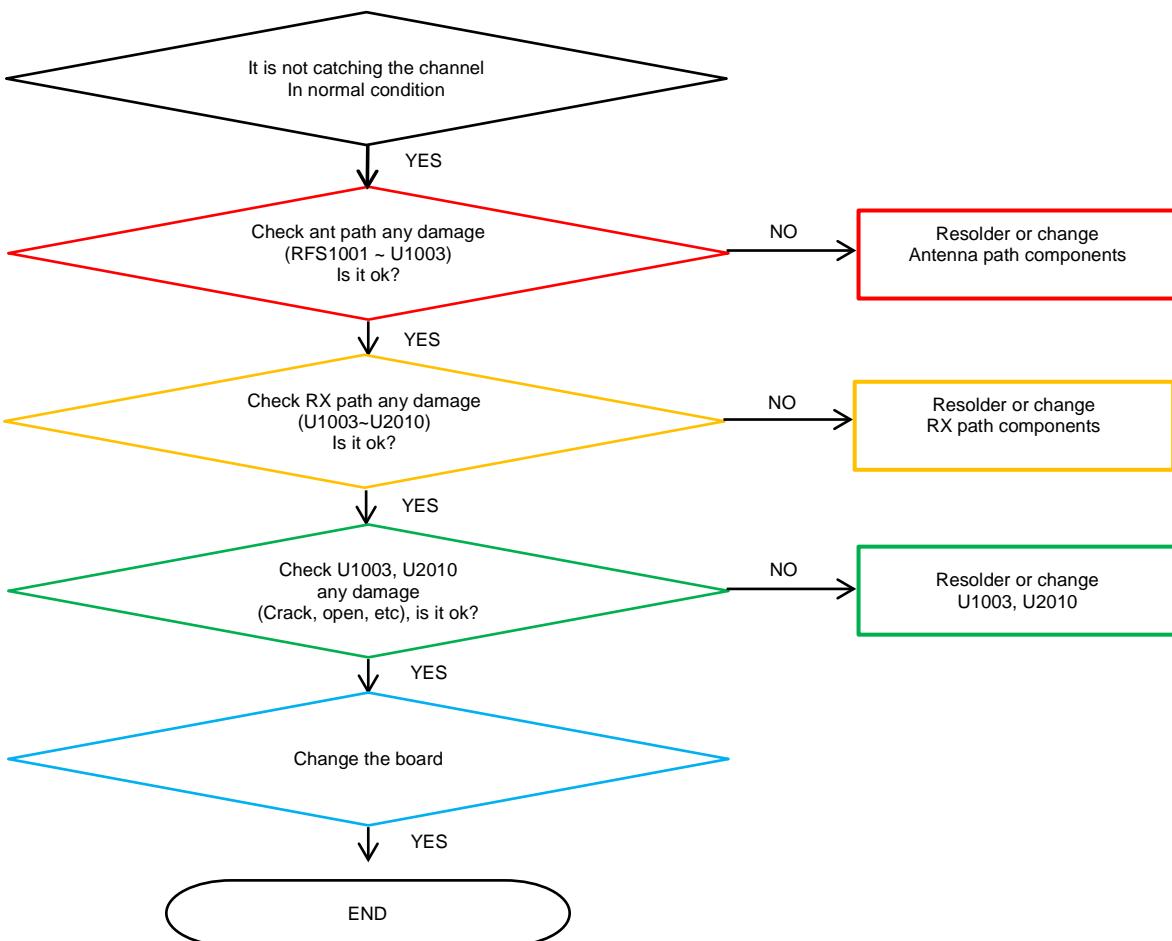
## 8. Level 3 Repair

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



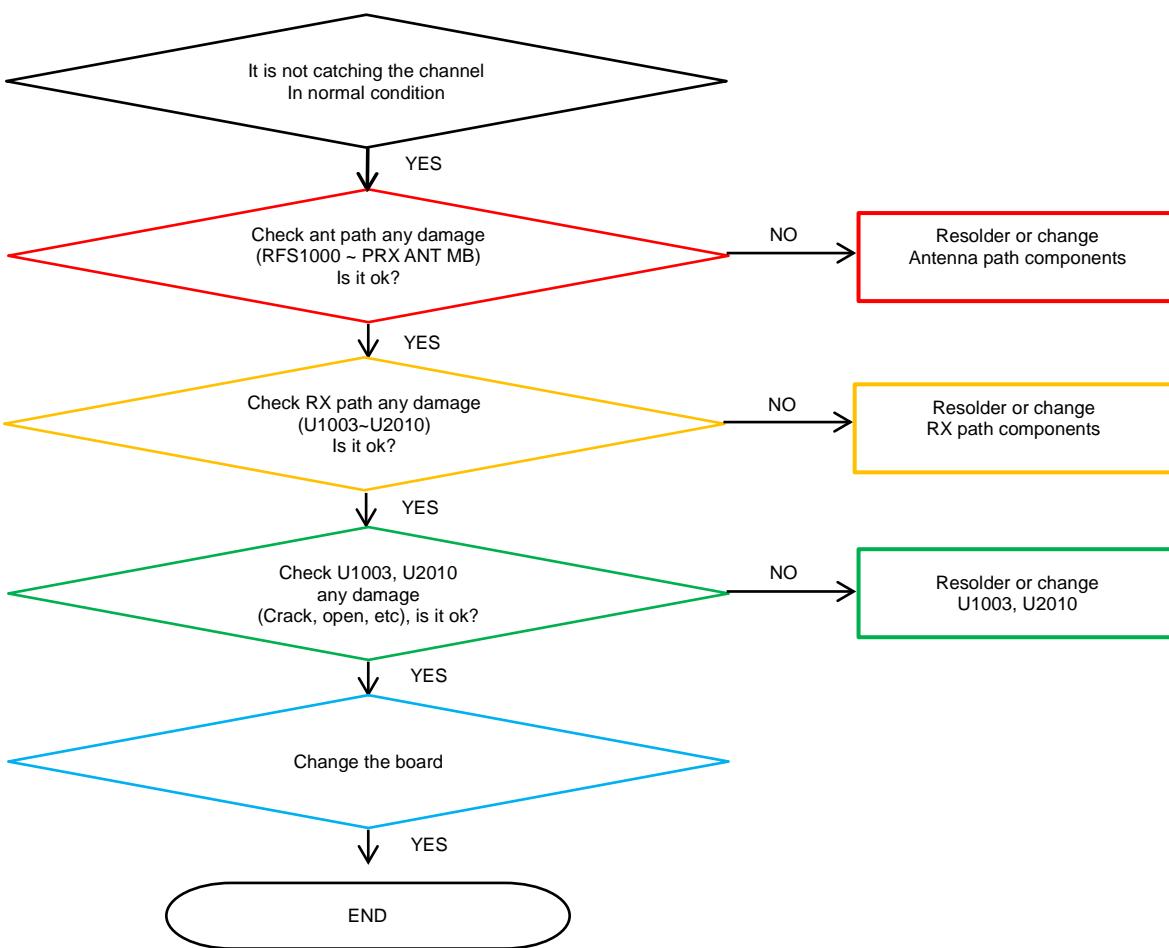
## 8. Level 3 Repair

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



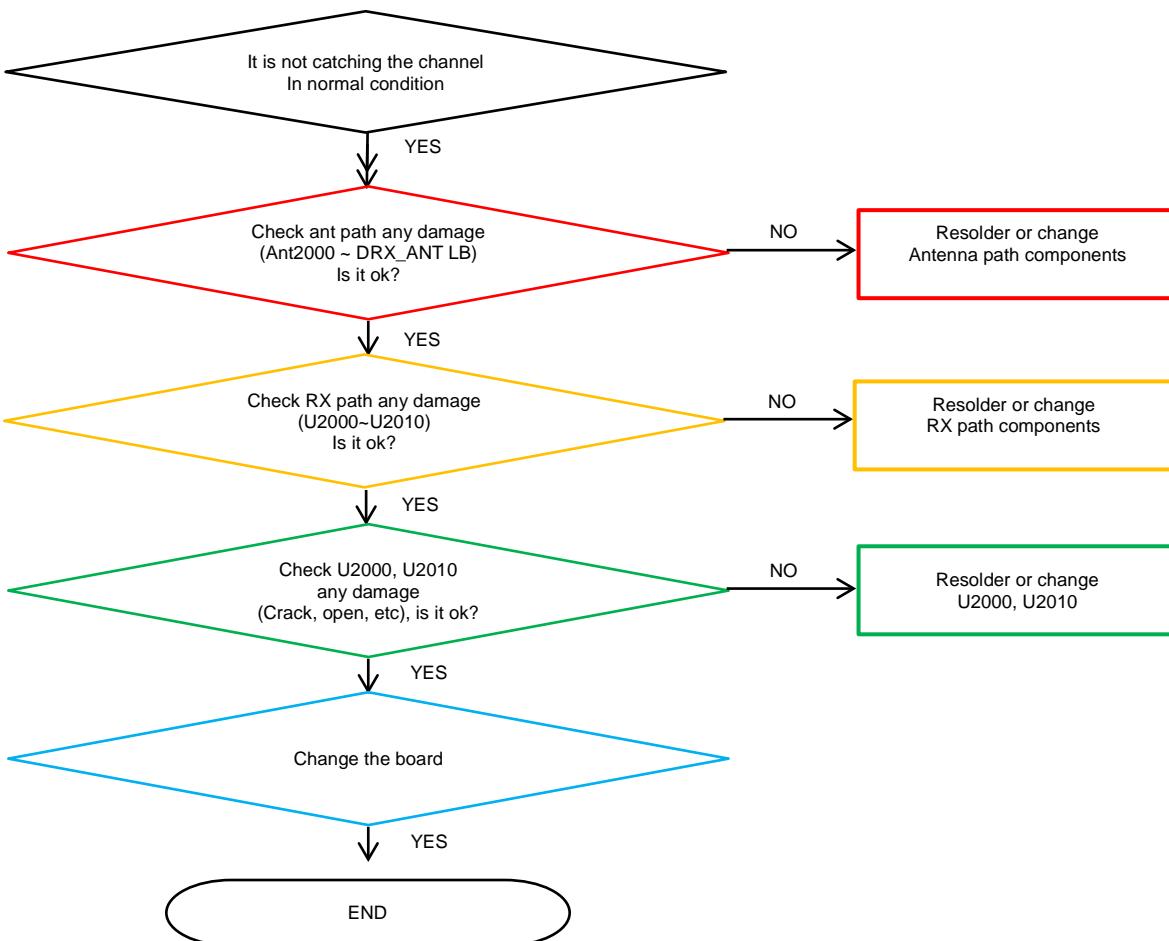
## 8. Level 3 Repair

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



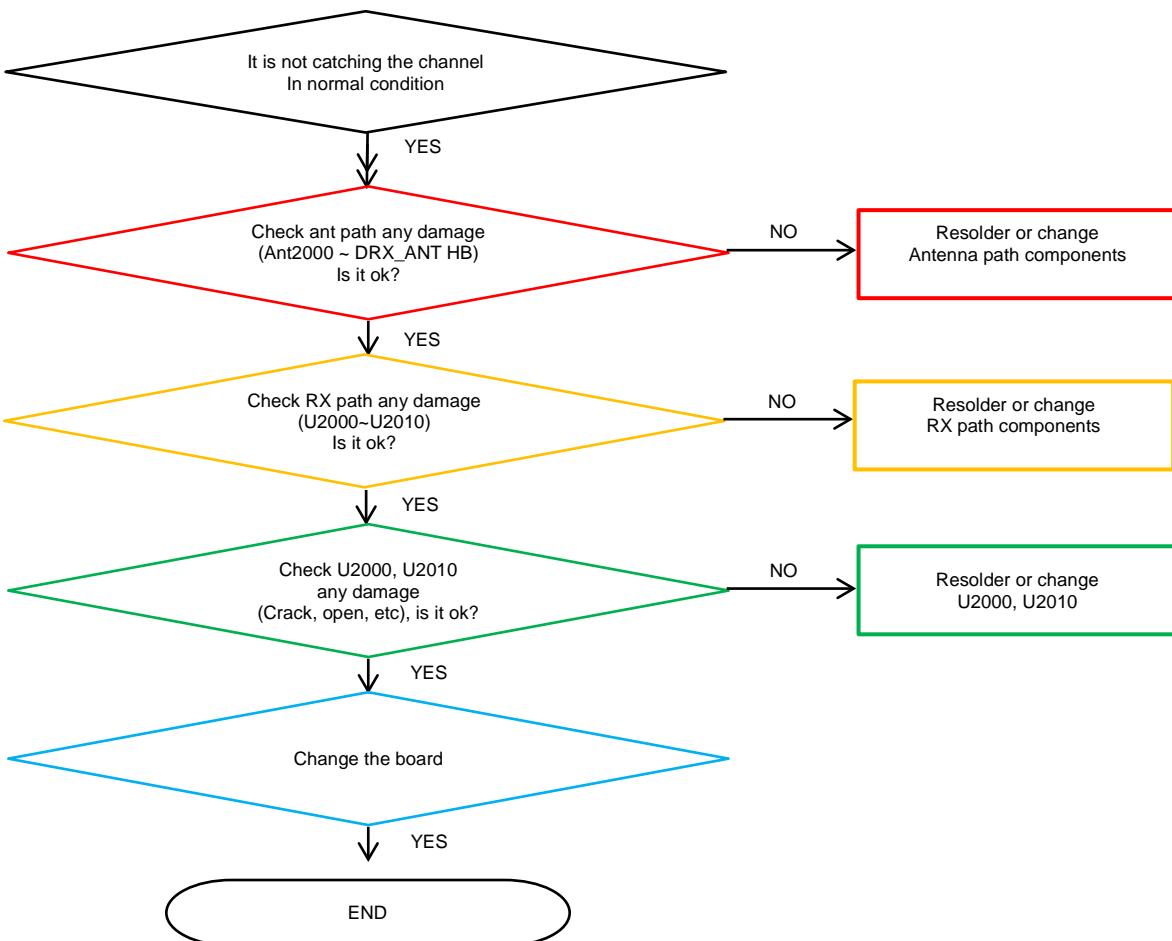
## 8. Level 3 Repair

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



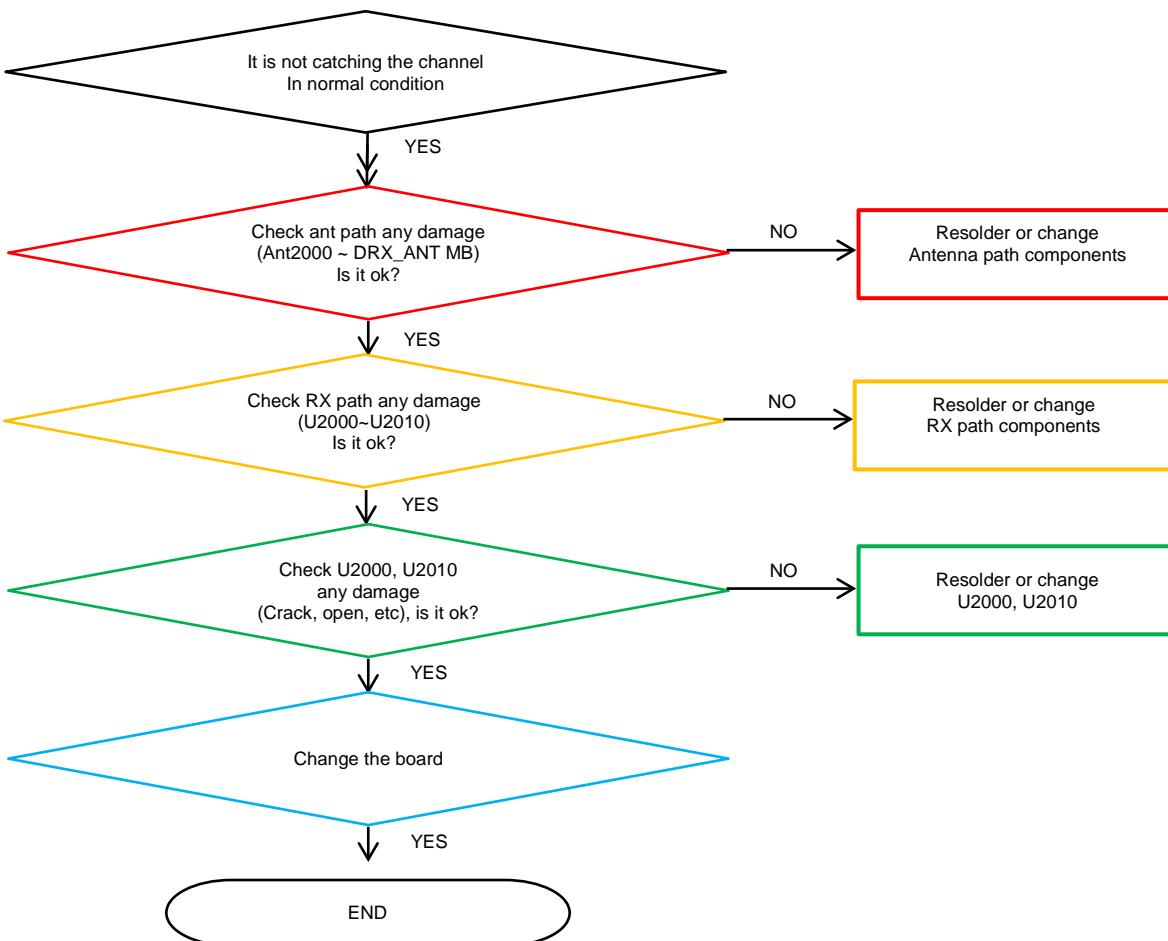
## 8. Level 3 Repair

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



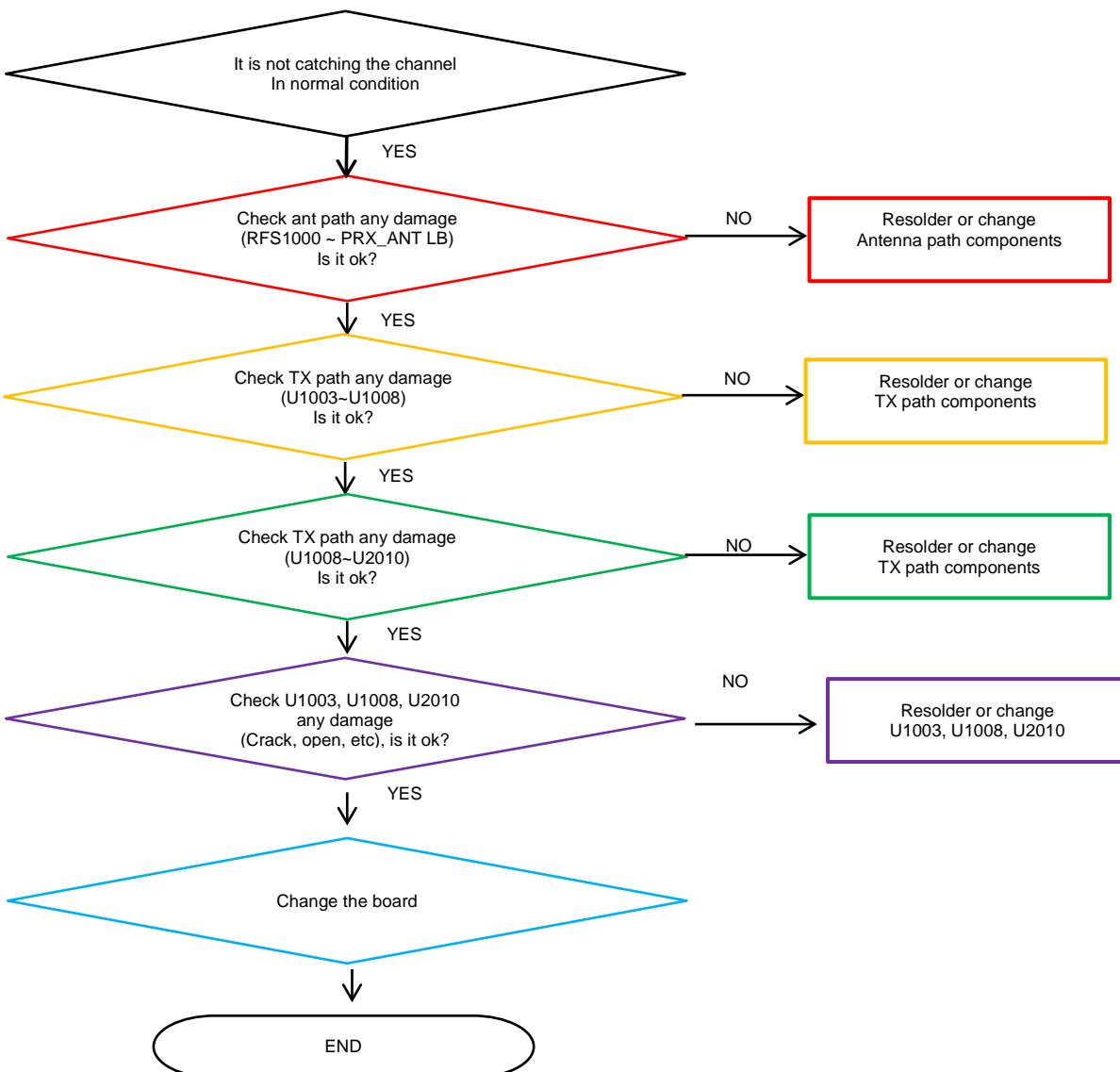
## 8. Level 3 Repair

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



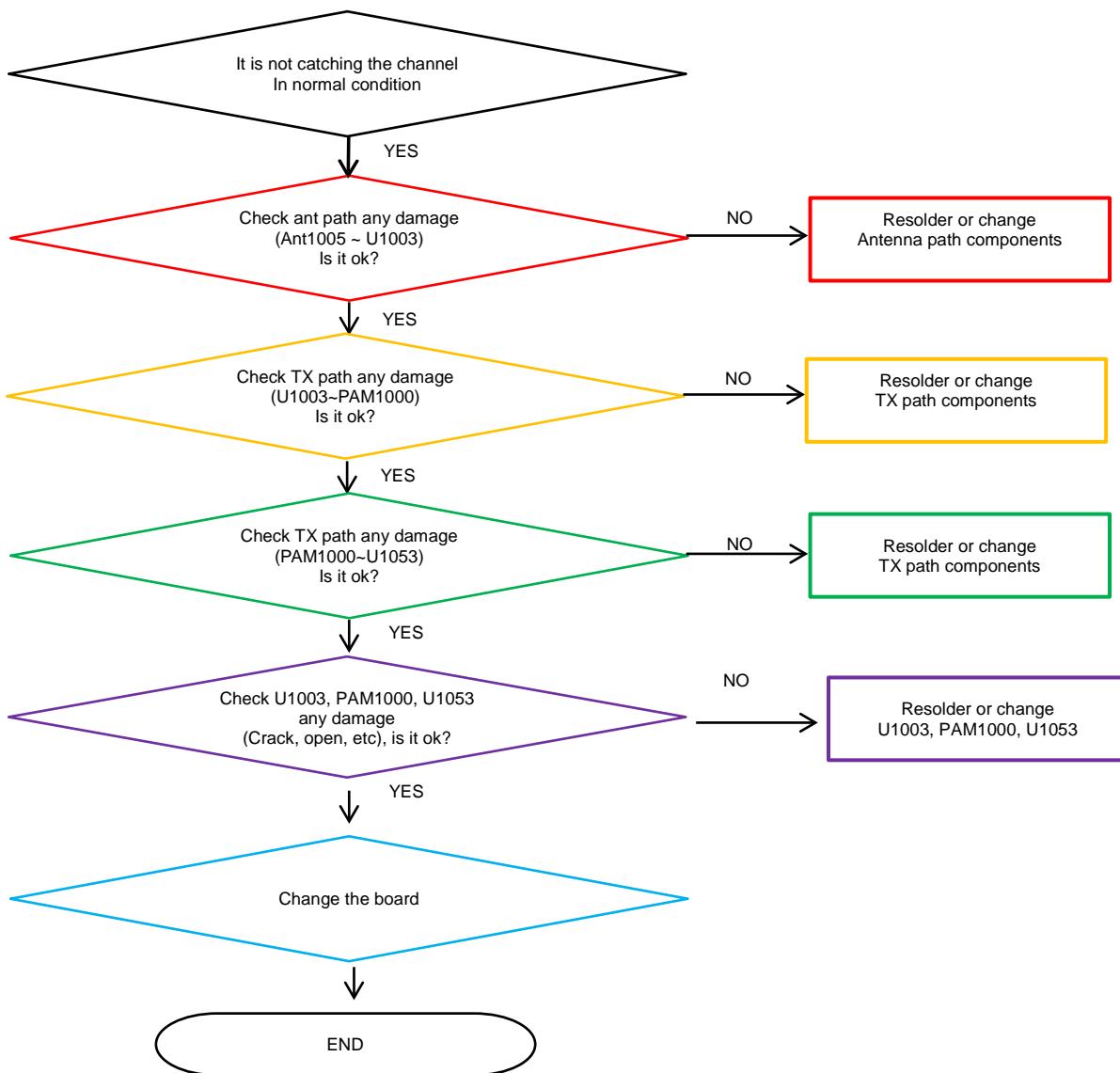
## 8. Level 3 Repair

### 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

