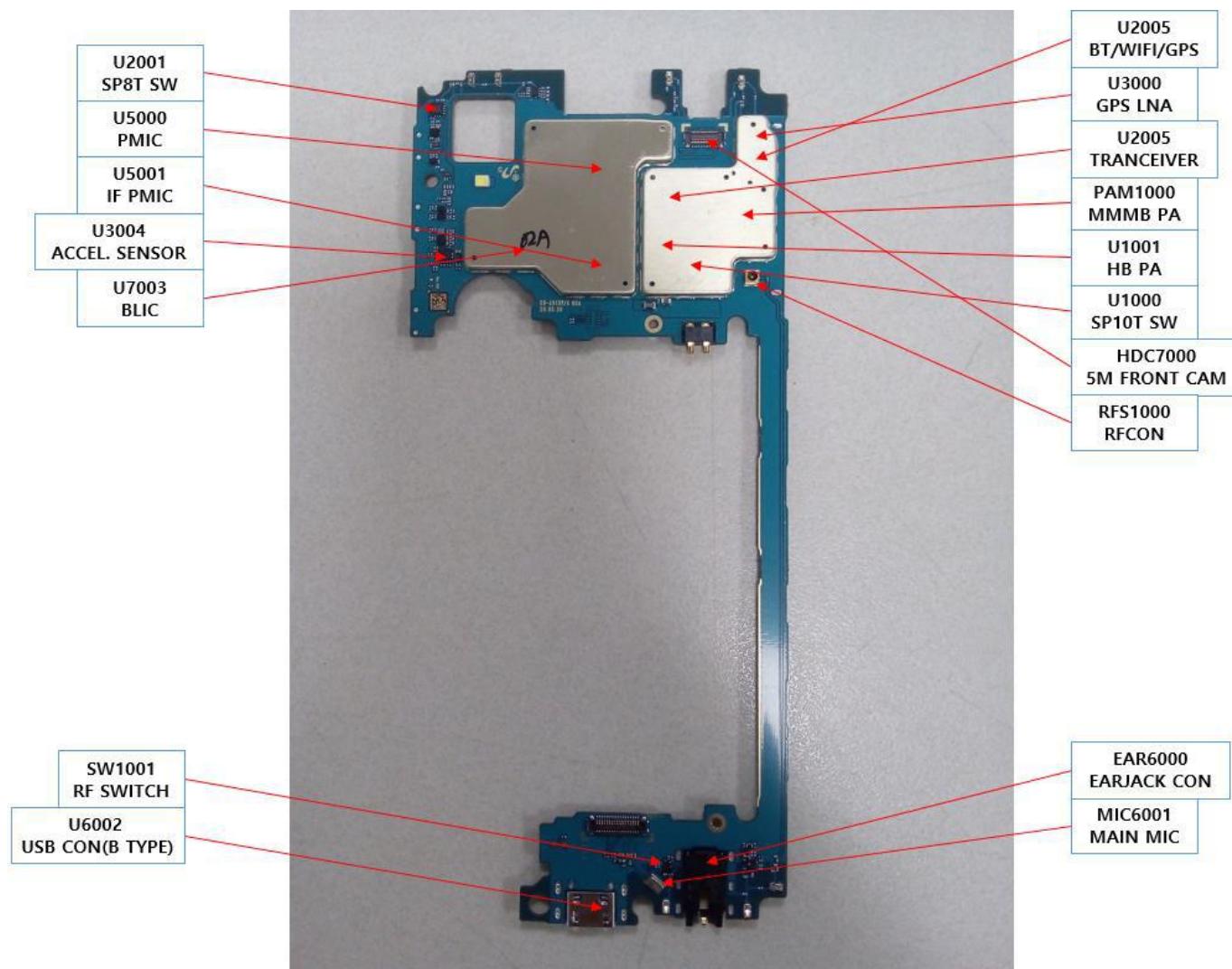


## 8. Level 3 Repair

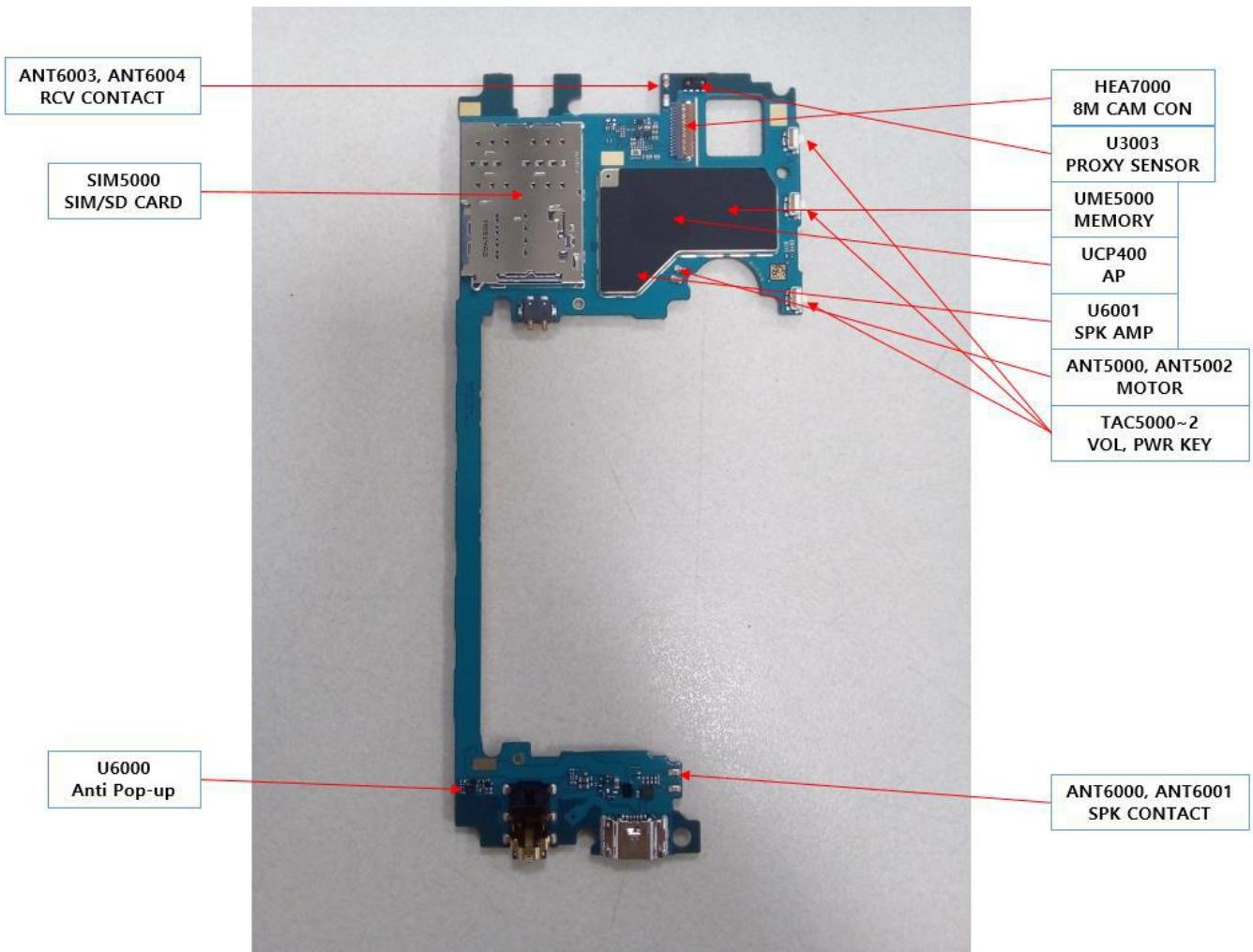
### 8-1. Components Layout

PBA (TOP SIDE)

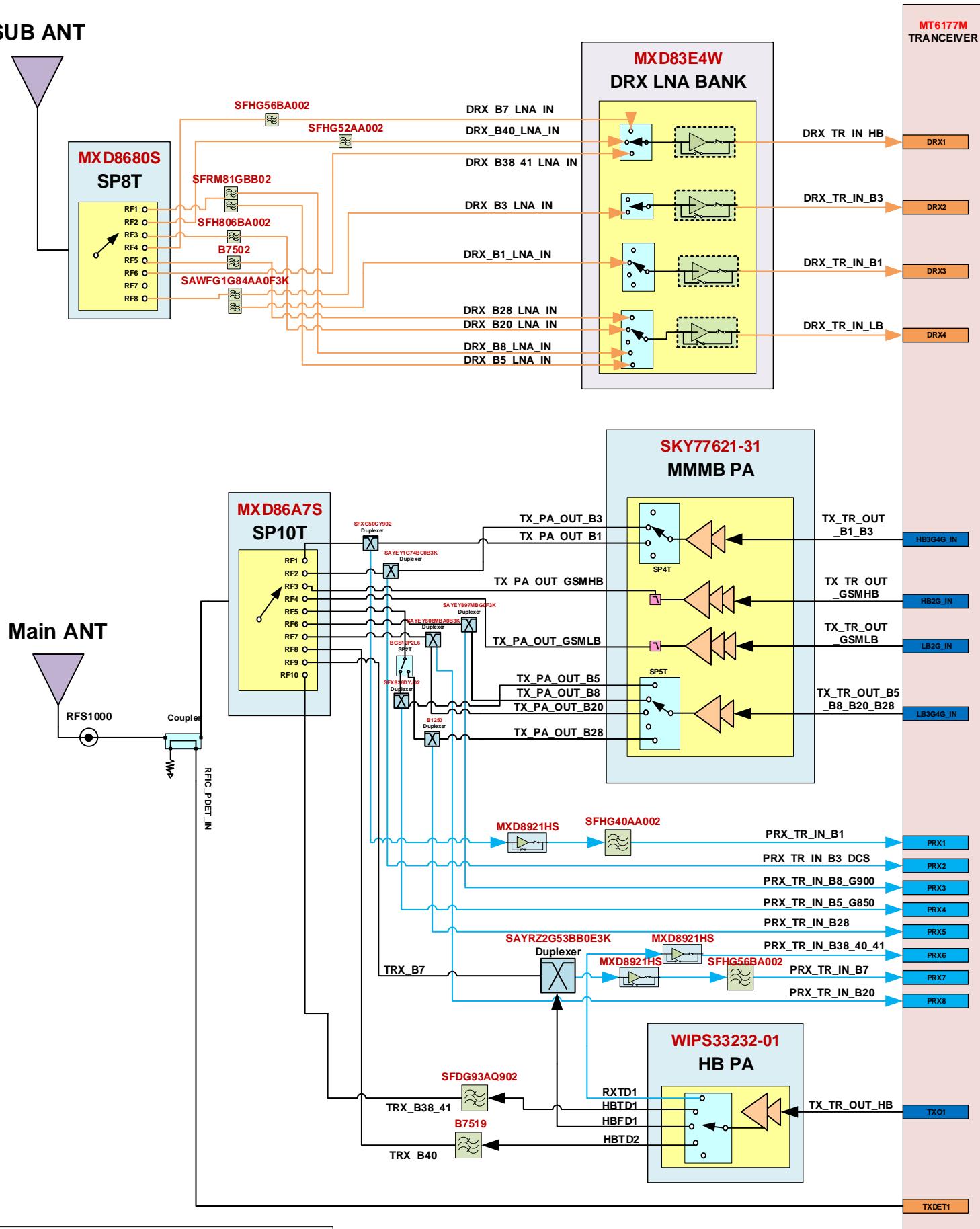


## 8. Level 3 Repair

PBA (BOTTOM SIDE)



## SUB ANT



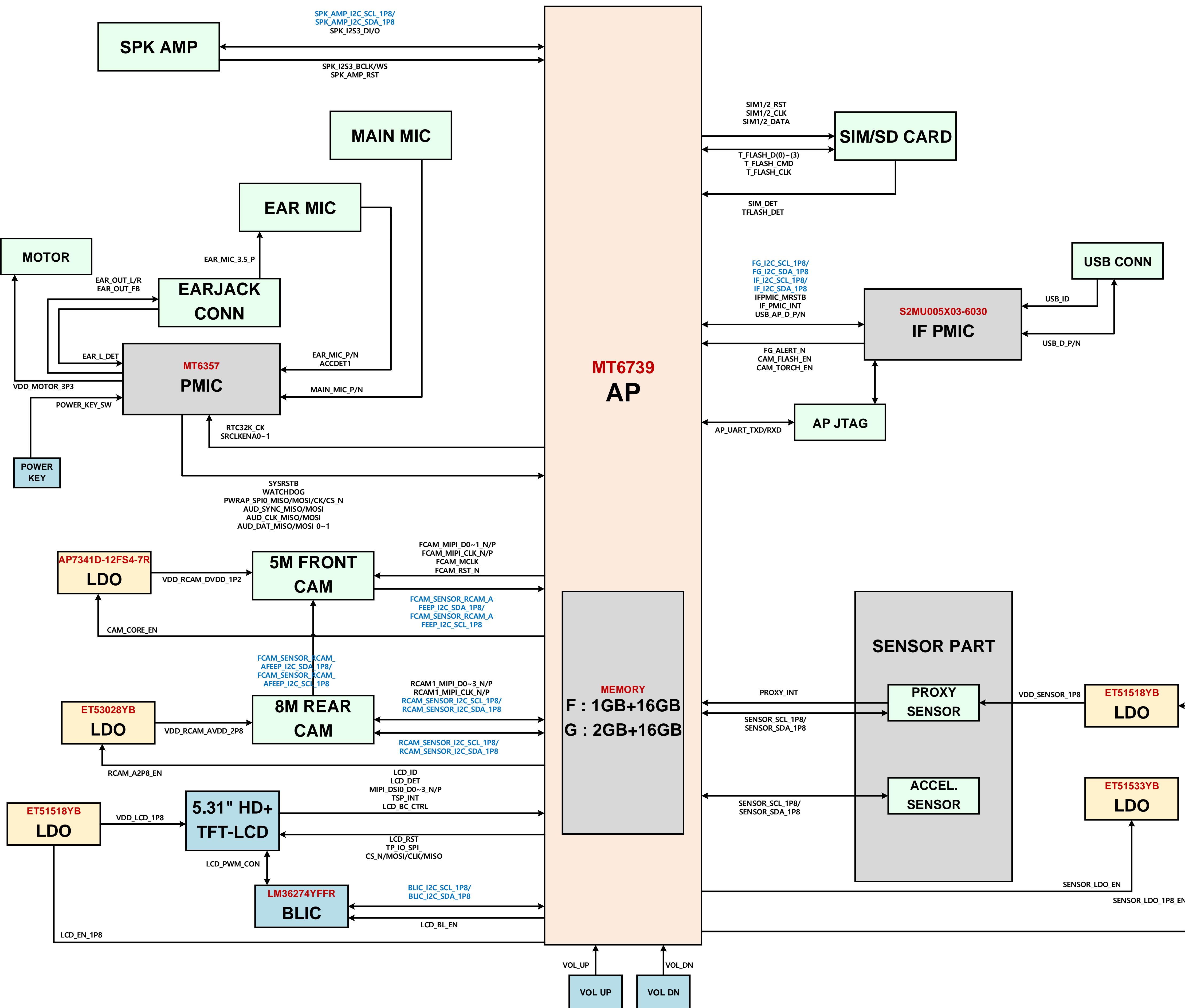
[SM-A013F\_REV0.1 RF BAND]  
(MEA/CIS/AER/SWA/SEA)

(MEA/CIS/AFR/SW)  
3G : 850/900/1800

**2G : 850/900/1800**  
**3G : W1 W5 W8**

LTE FDD : B1 B3 B5 B7 B8 B20 B28

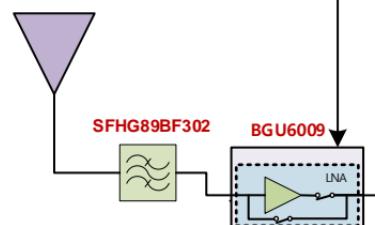
LTE FDD : B1,B3,B5,B7  
LTE TDD : B38 B40 B41



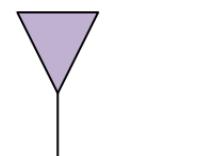
**WIFI ANT**



**GPS ANT**



**FM ANT**



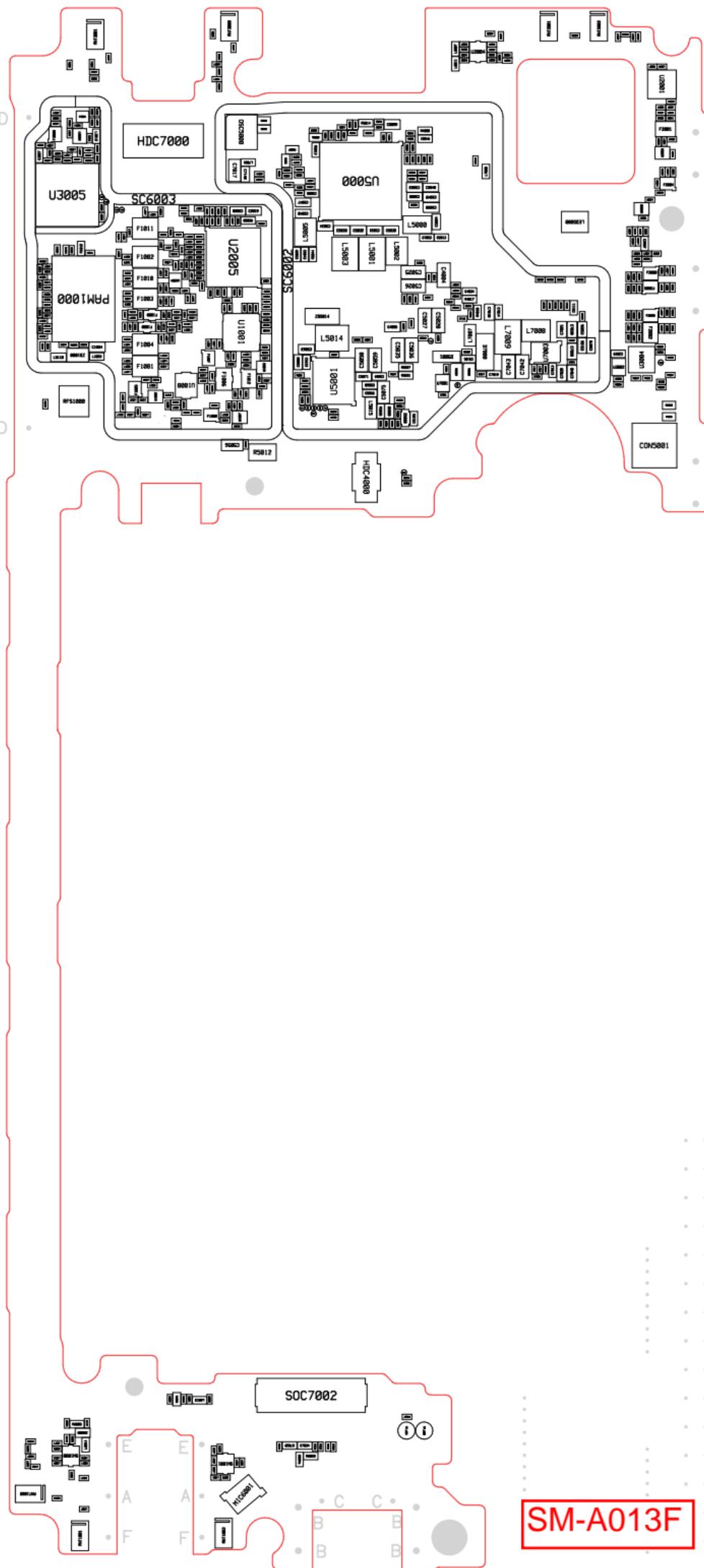
**MT6625L  
BT/WIFI/GPS**

WB\_RXIP/N  
WB\_RXQP/N

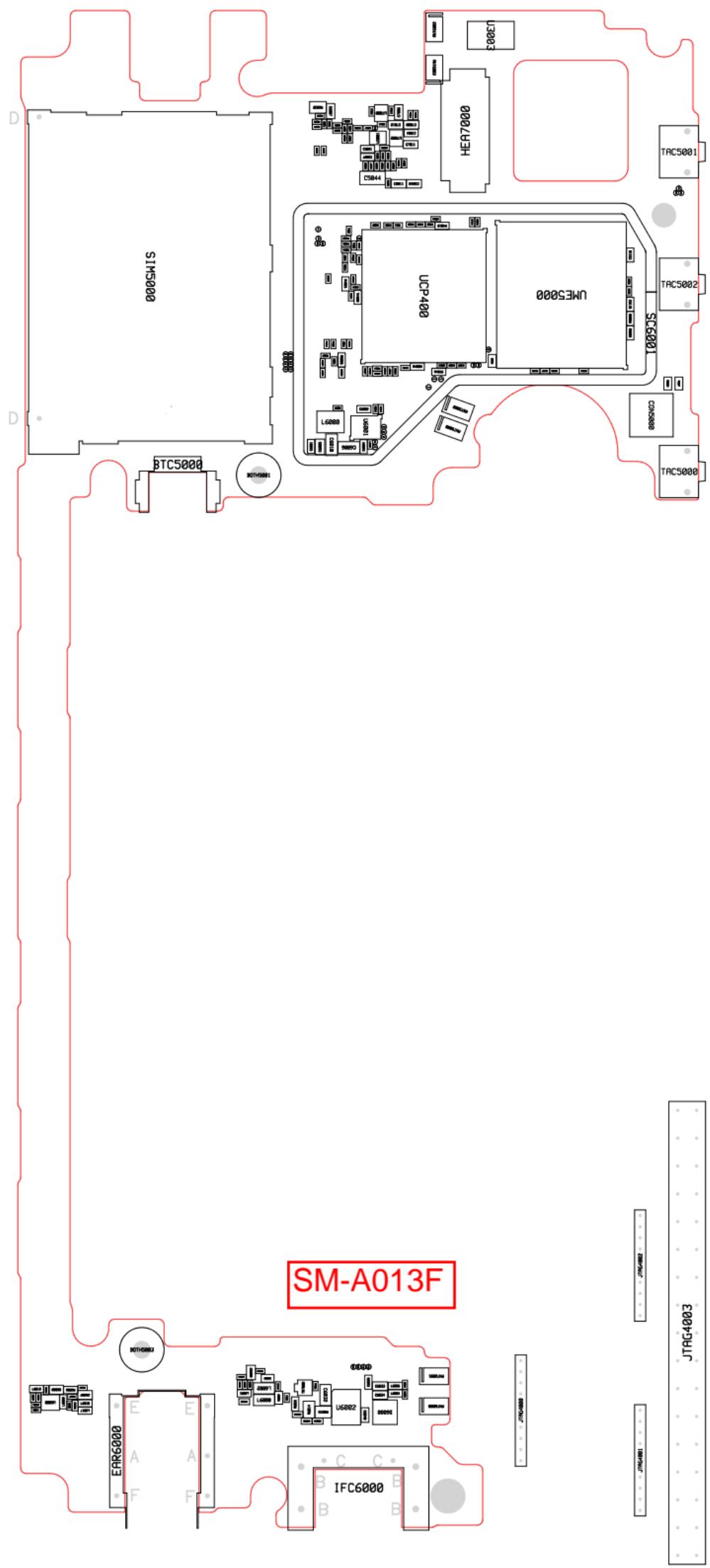
WB\_TXIP/N  
WB\_TXQP/N

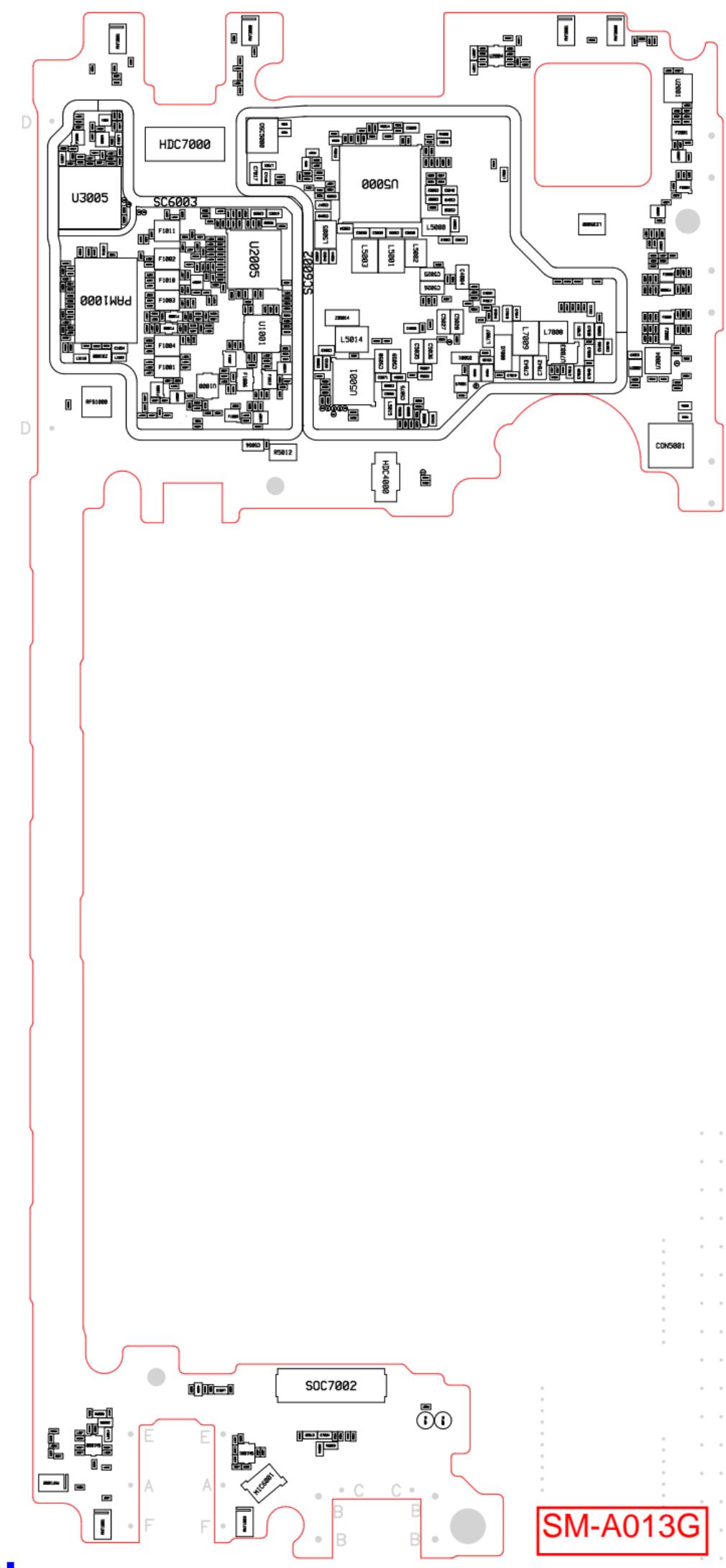
GPS\_RXIP/N  
GPS\_RXQP/N

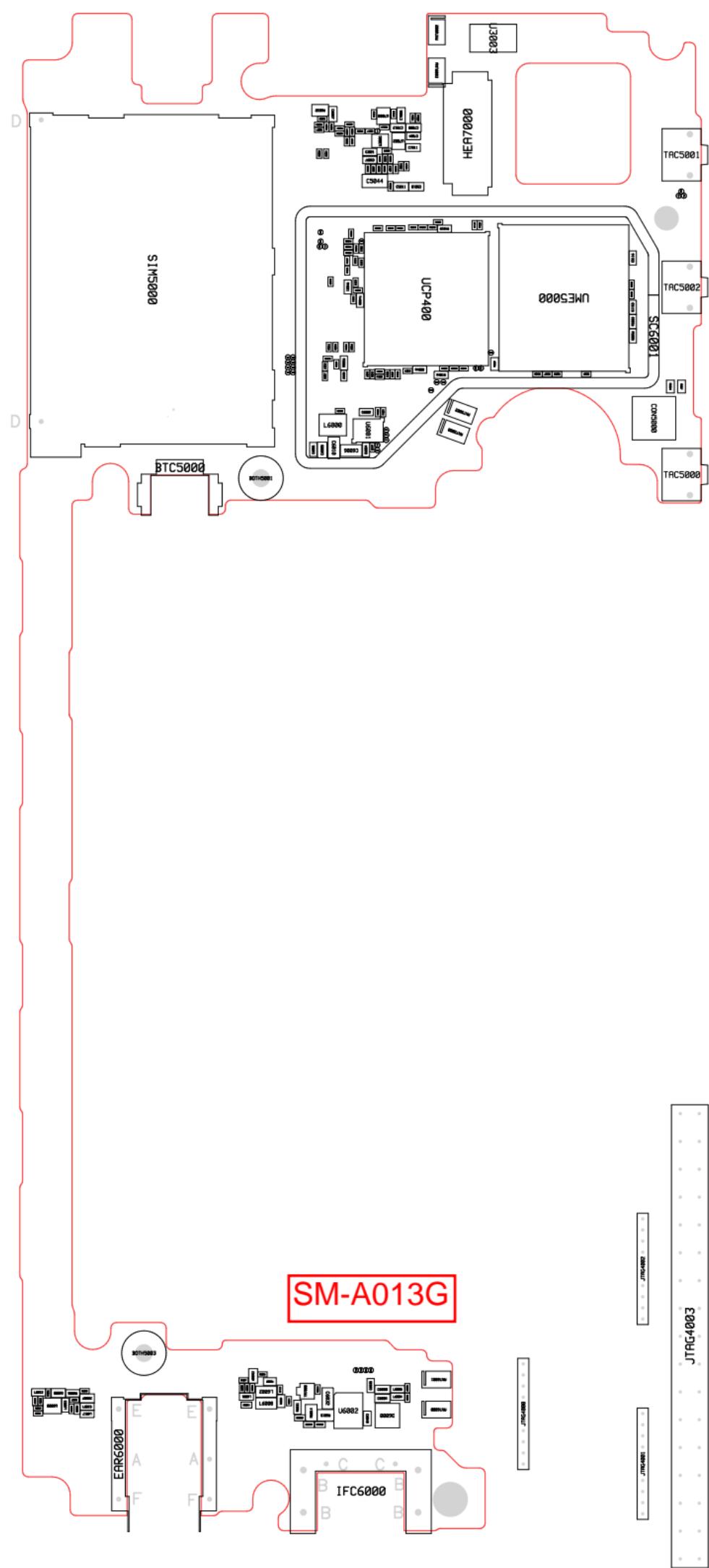
**MT6739  
AP**

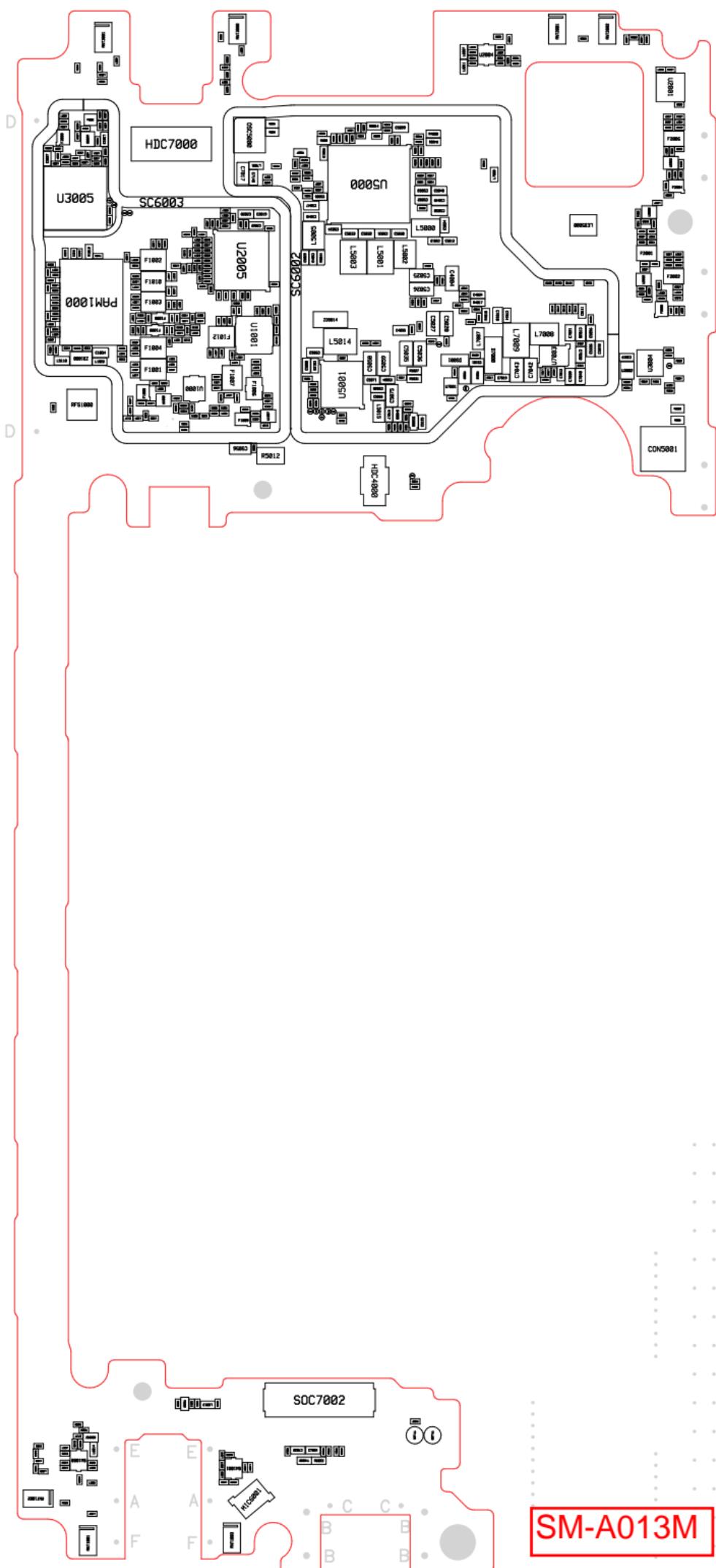


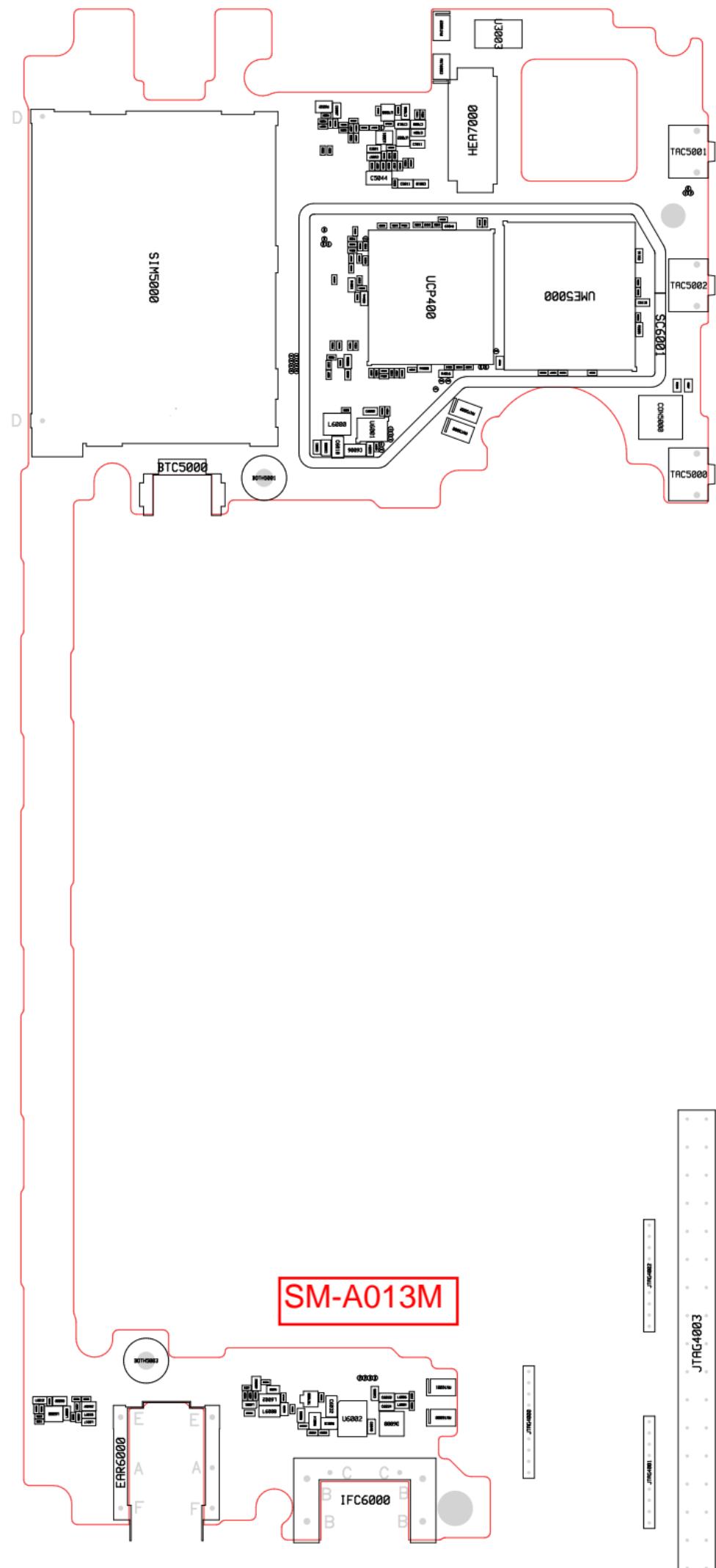
SM-A013F





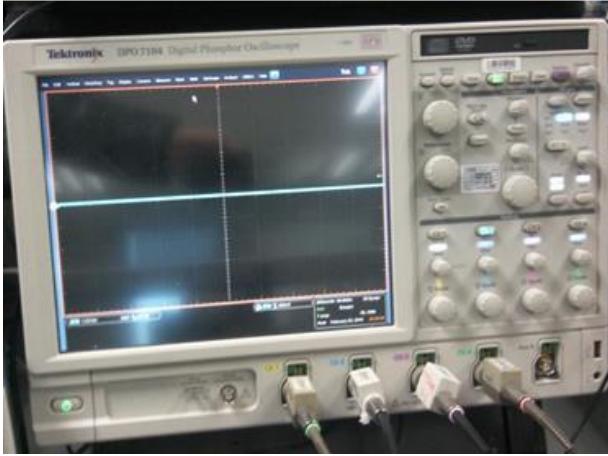
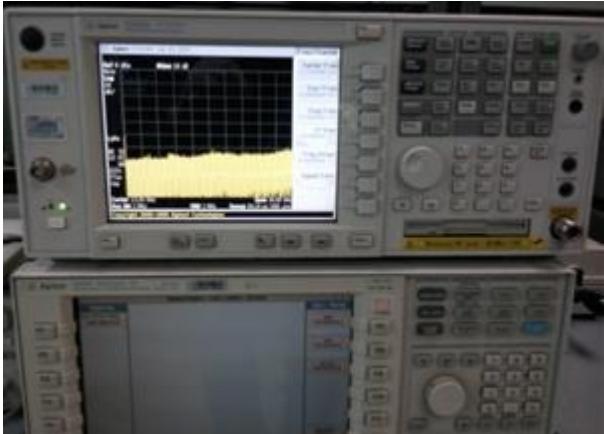






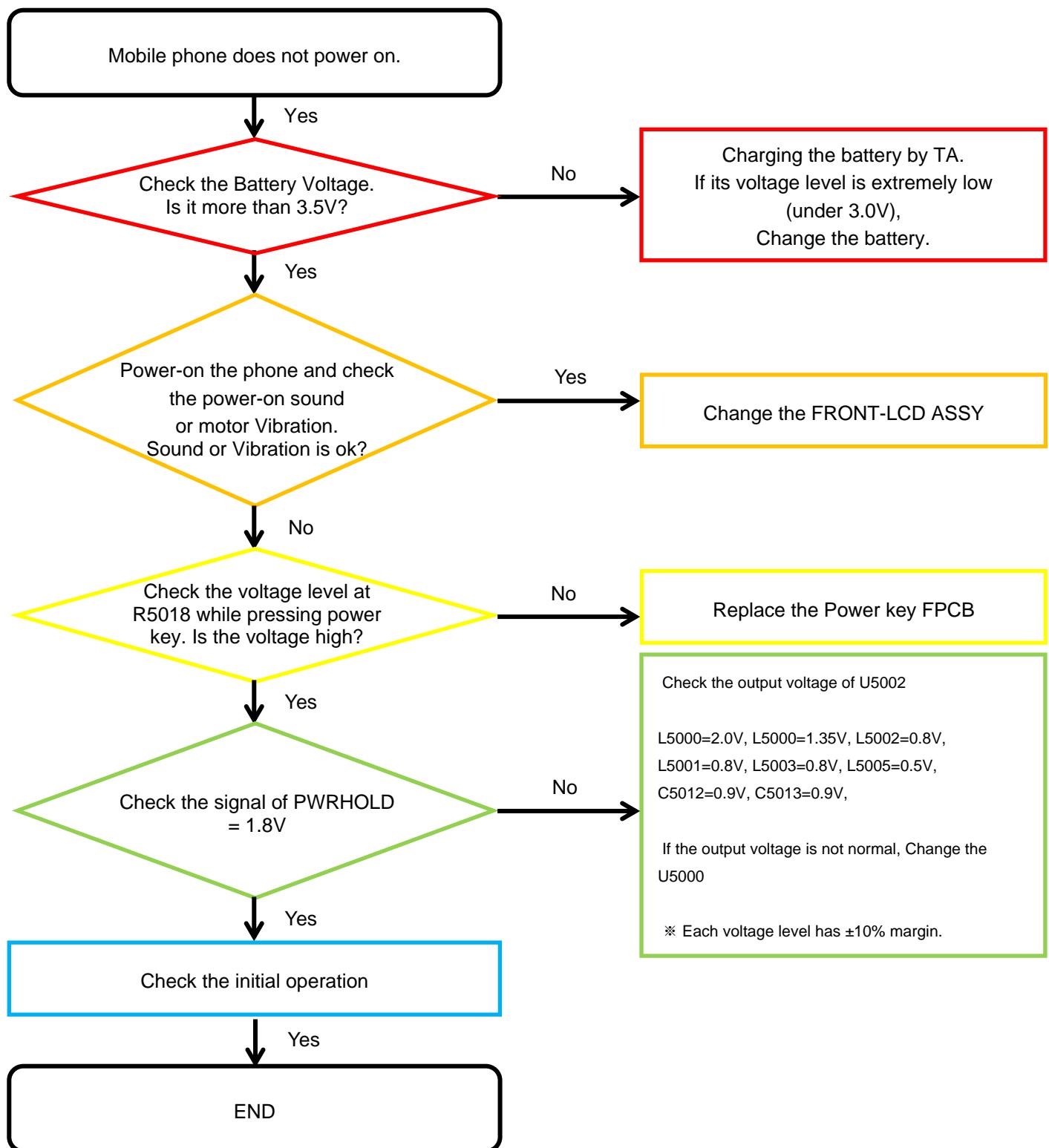
## 8. Level 3 Repair

### 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>

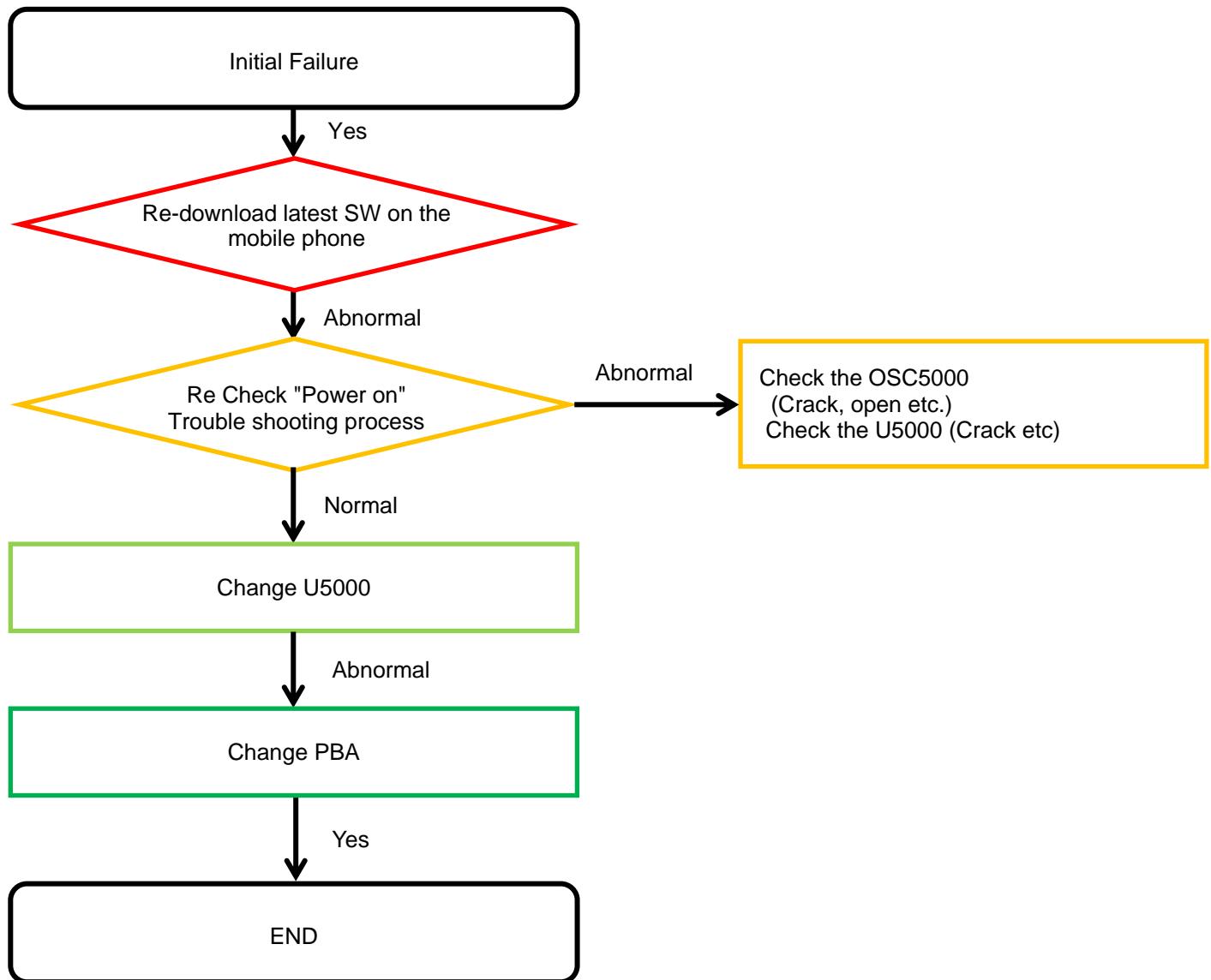
## 8. Level 3 Repair

### 8-4-1. Power On



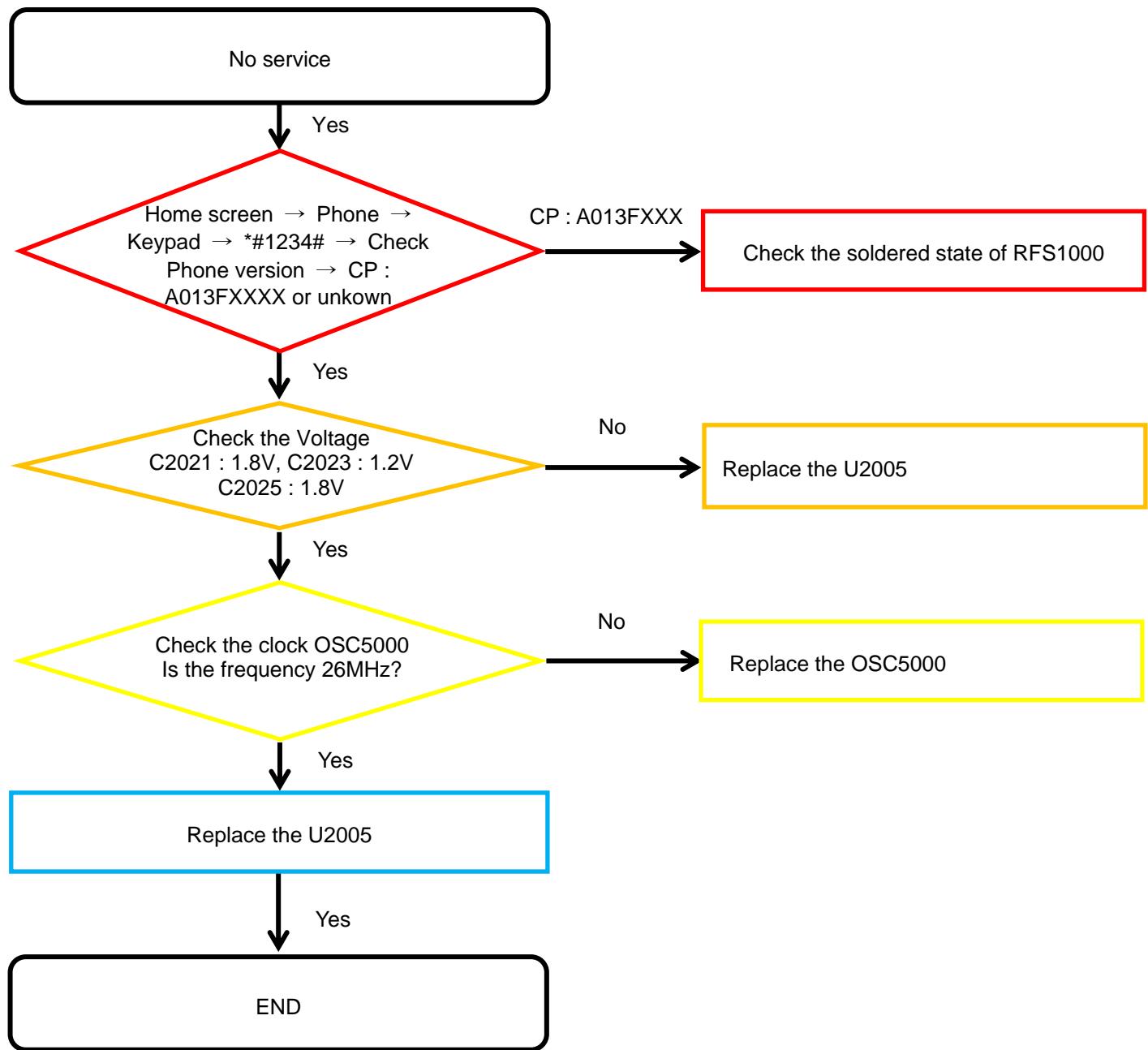
## 8. Level 3 Repair

### 8-4-2. Initial



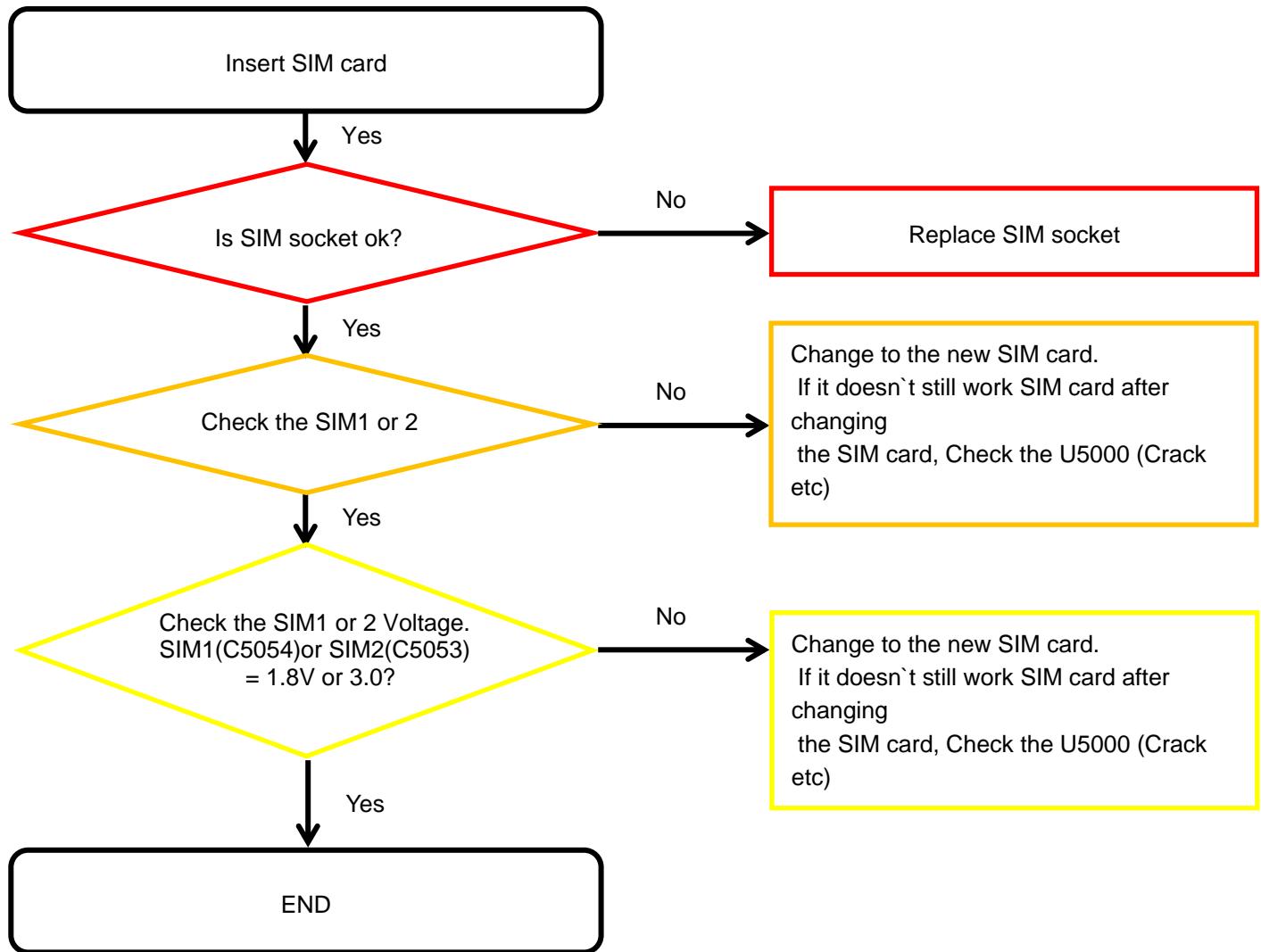
## 8. Level 3 Repair

### 8-4-3. No Service



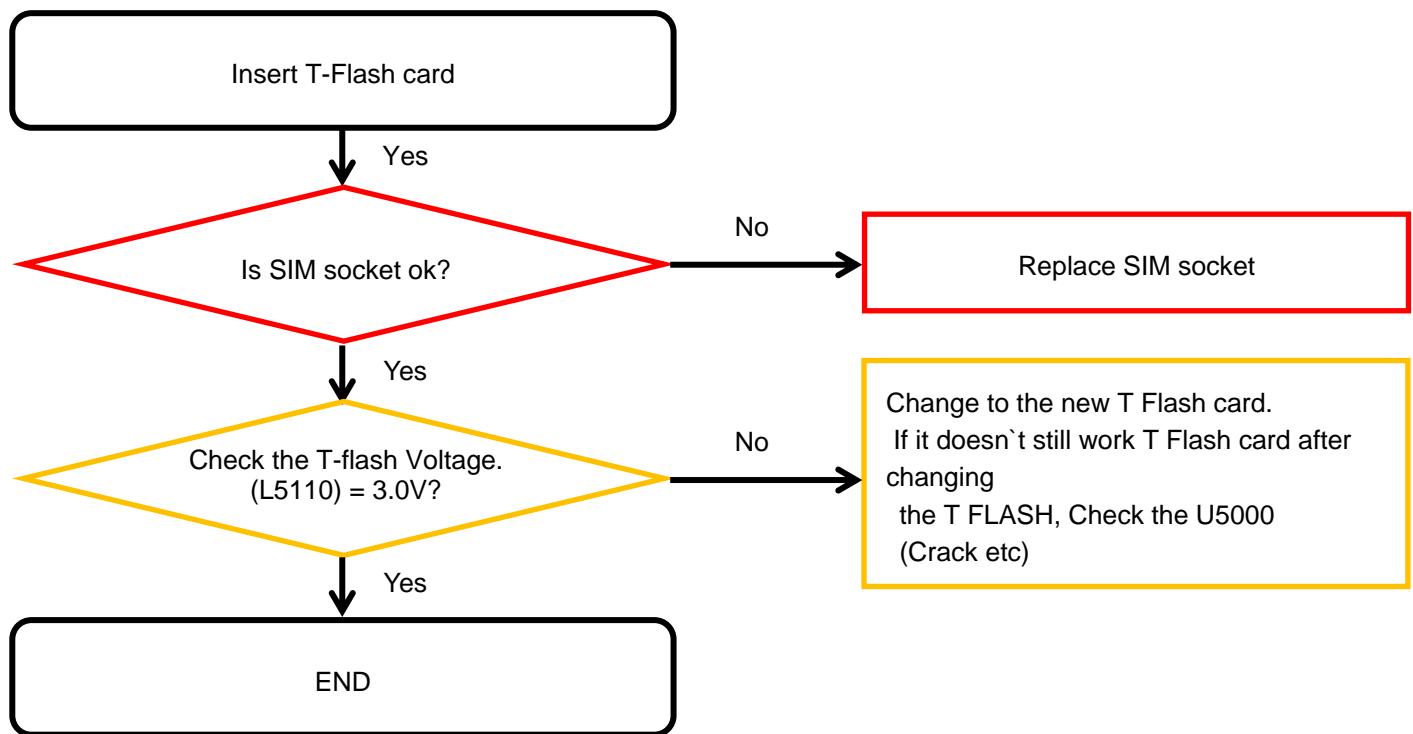
## 8. Level 3 Repair

### 8-4-4. SIM Part



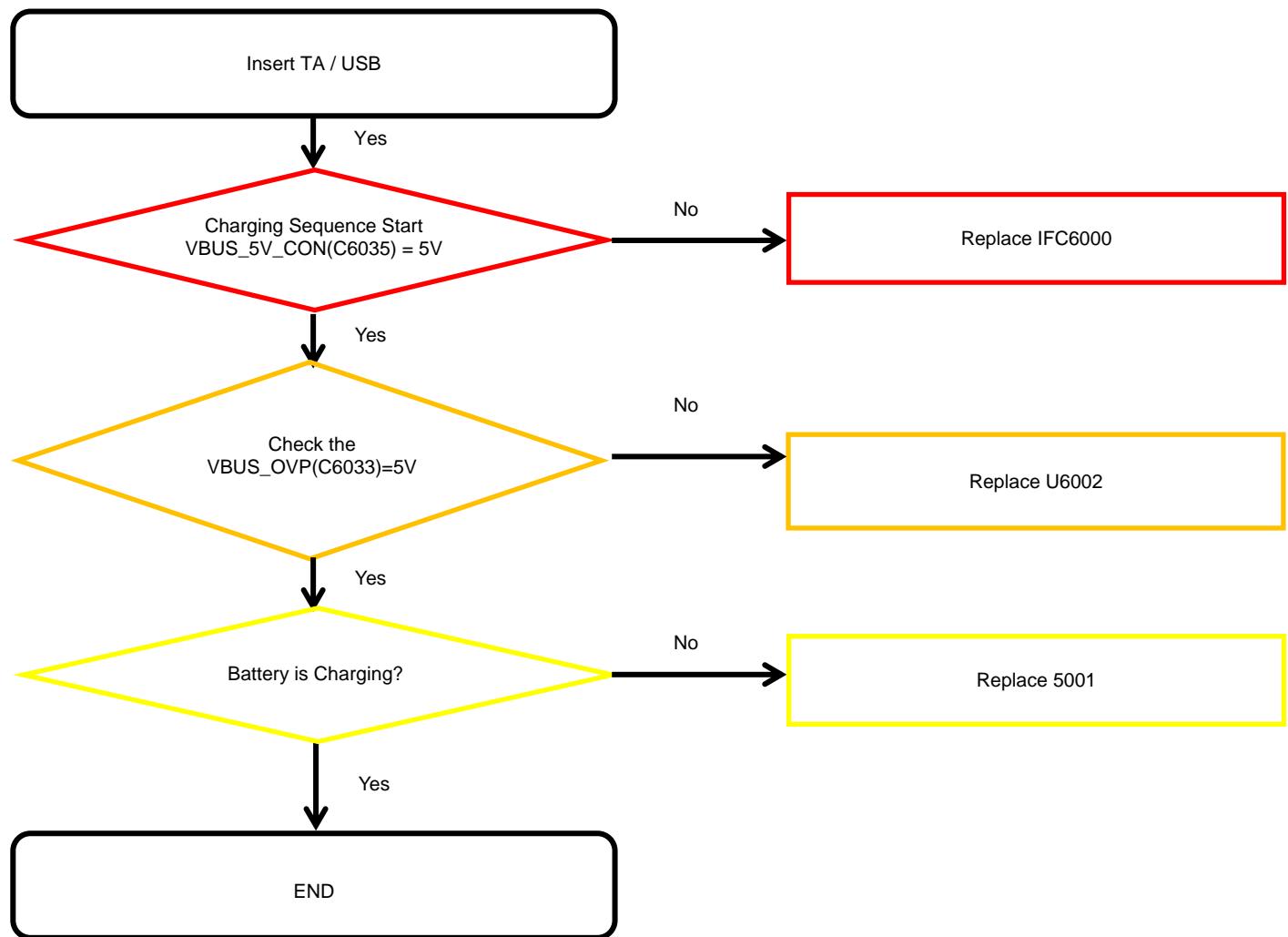
## 8. Level 3 Repair

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



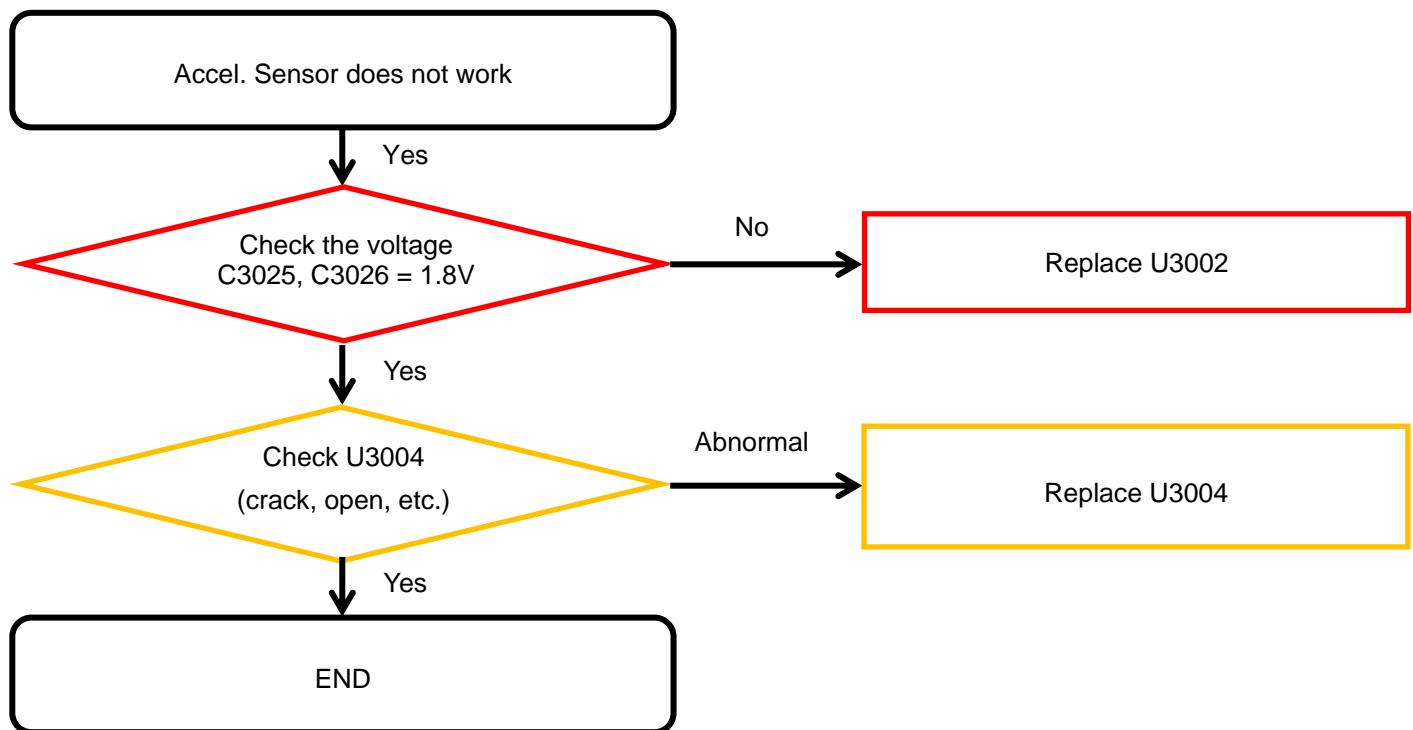
## 8. Level 3 Repair

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



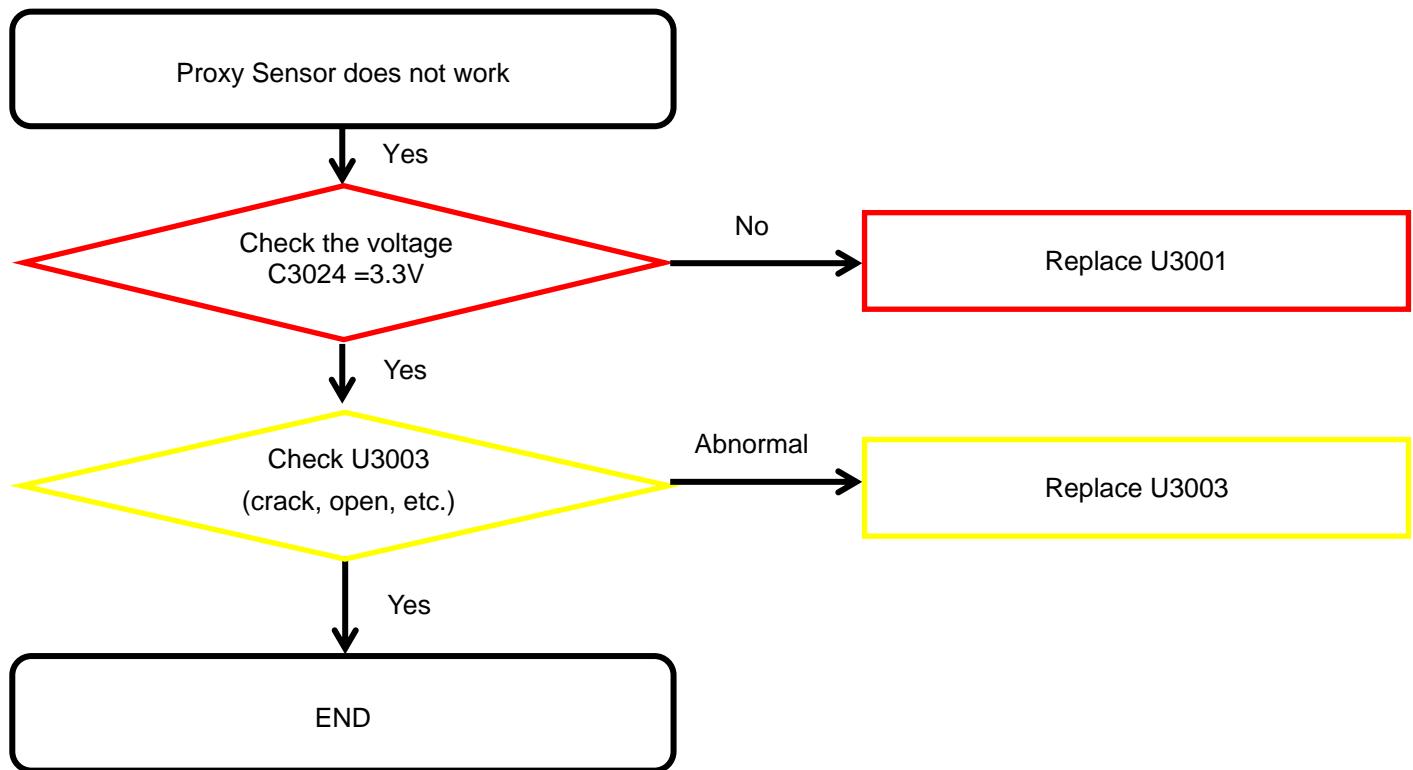
## 8. Level 3 Repair

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



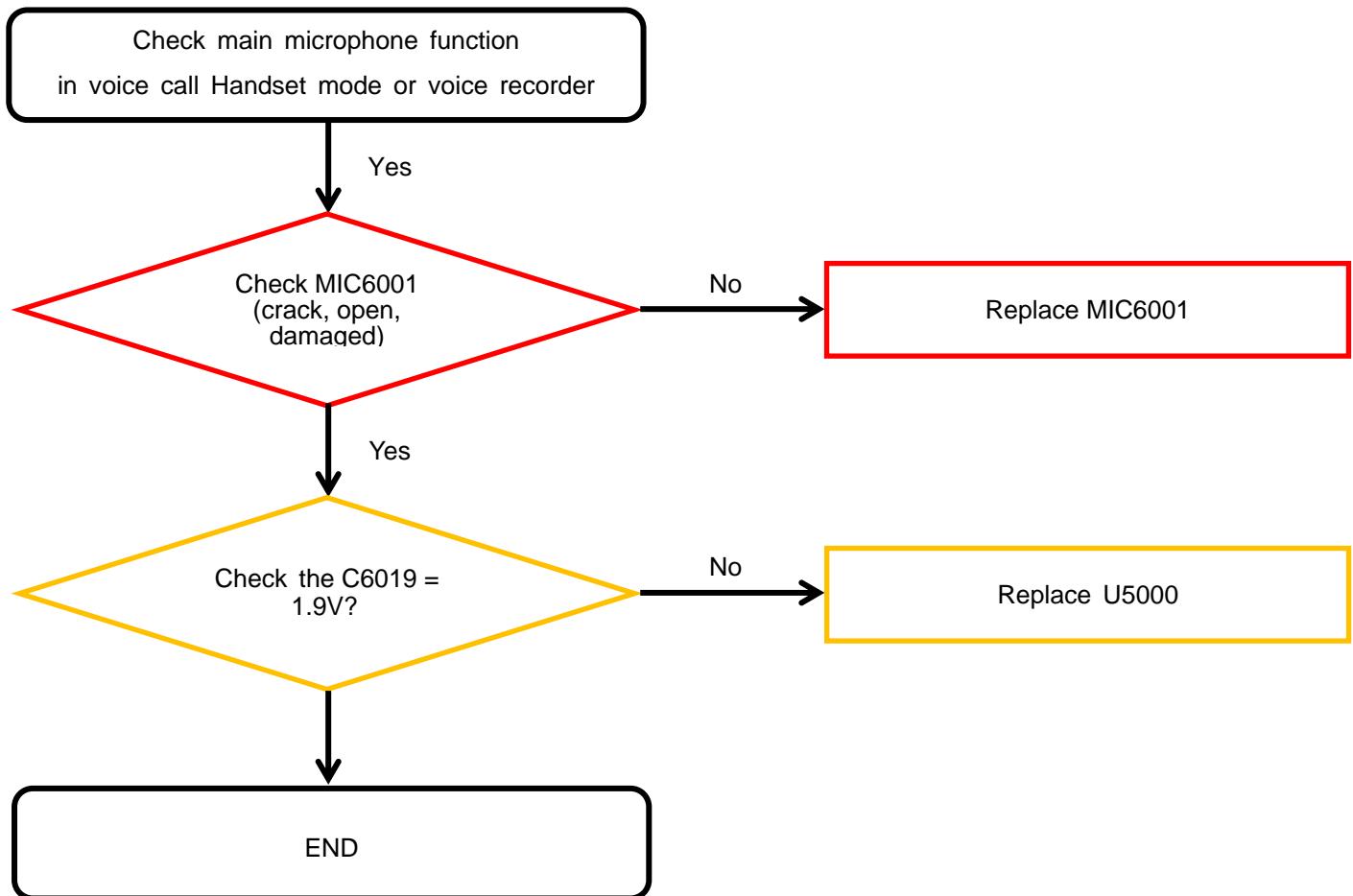
## 8. Level 3 Repair

### 8-4-7-2. Proxy Sensor



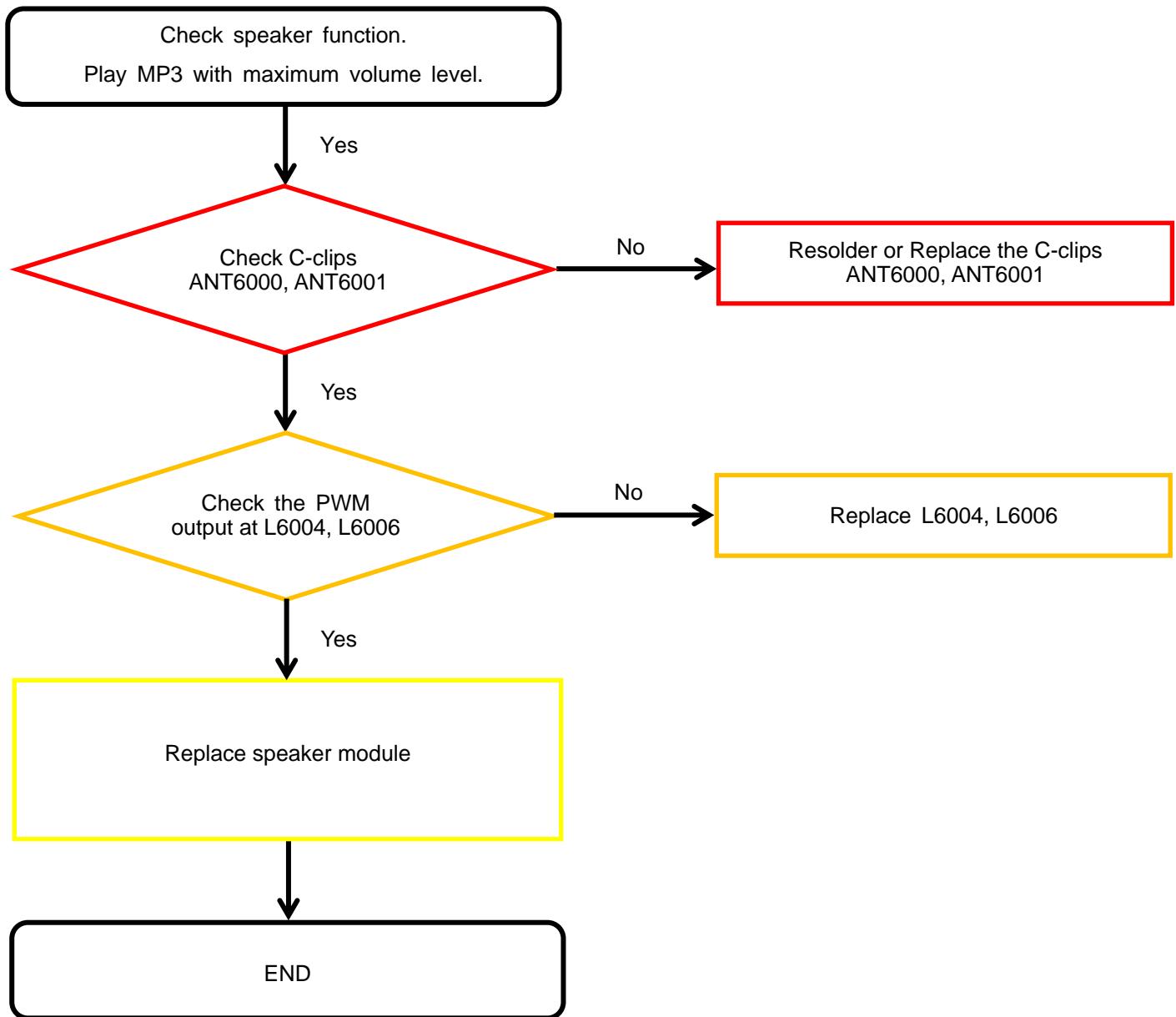
## 8. Level 3 Repair

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



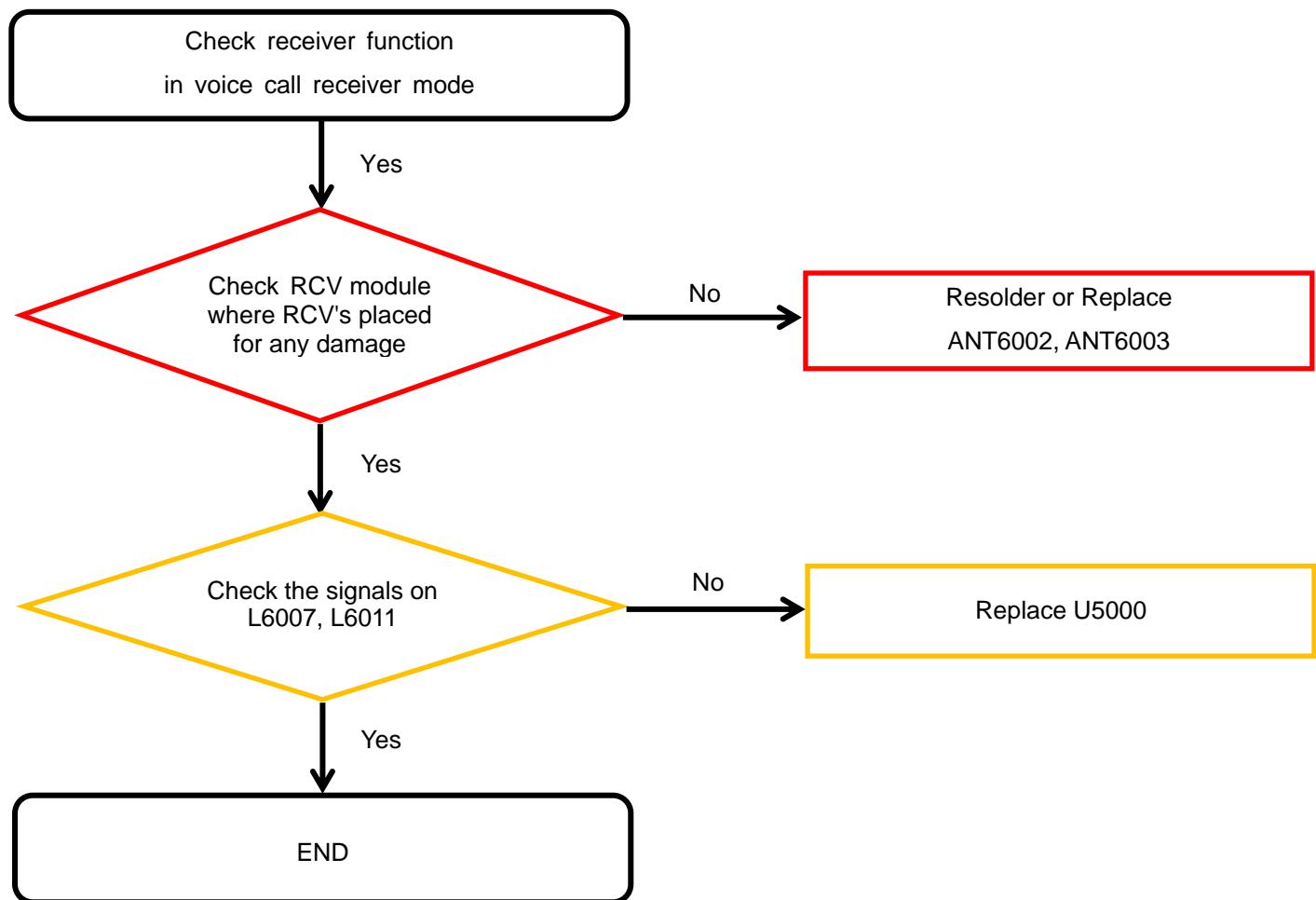
## 8. Level 3 Repair

### 8-4-9. Speaker Part



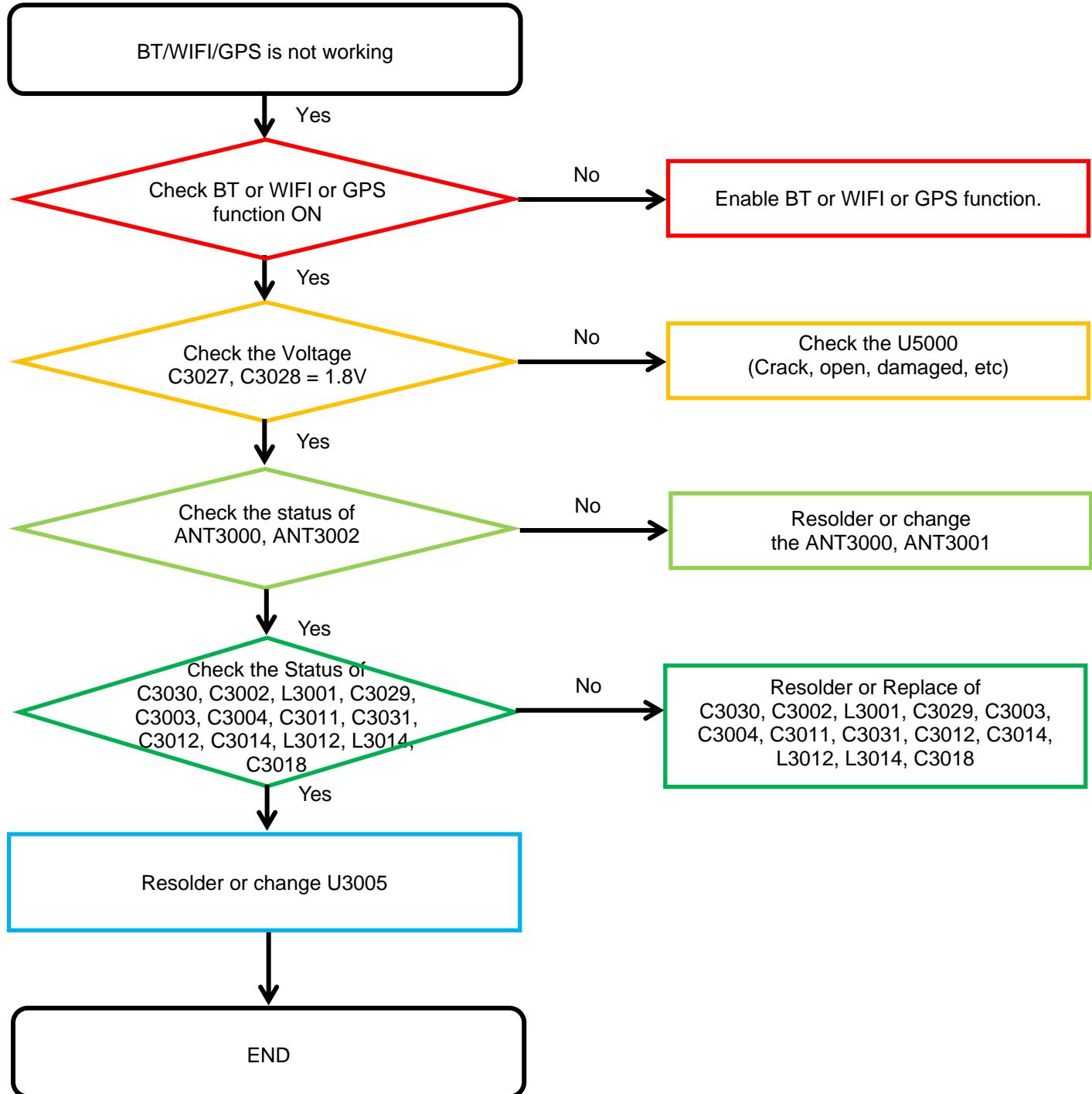
## 8. Level 3 Repair

### 8-4-10. Receiver Part



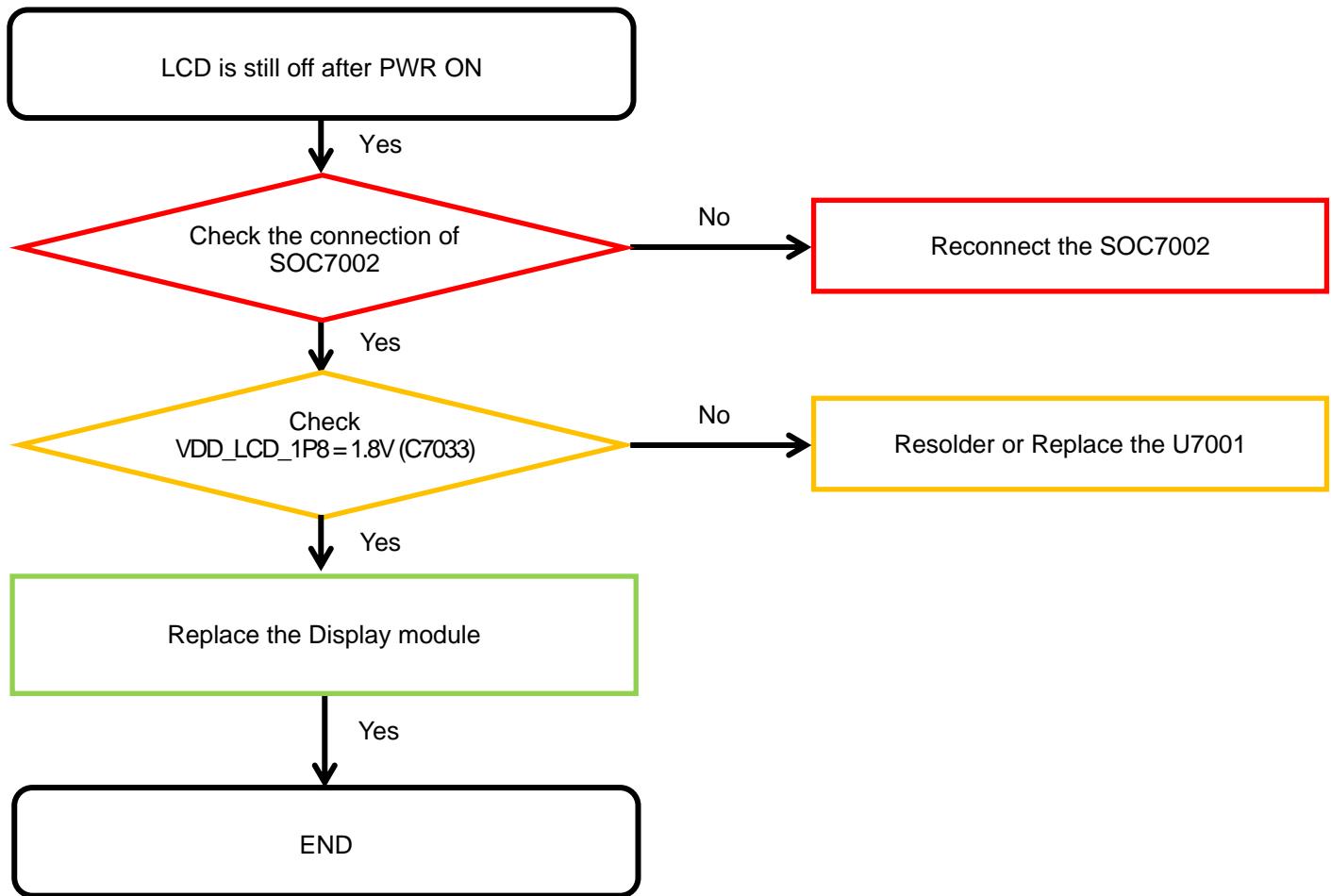
## 8. Level 3 Repair

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



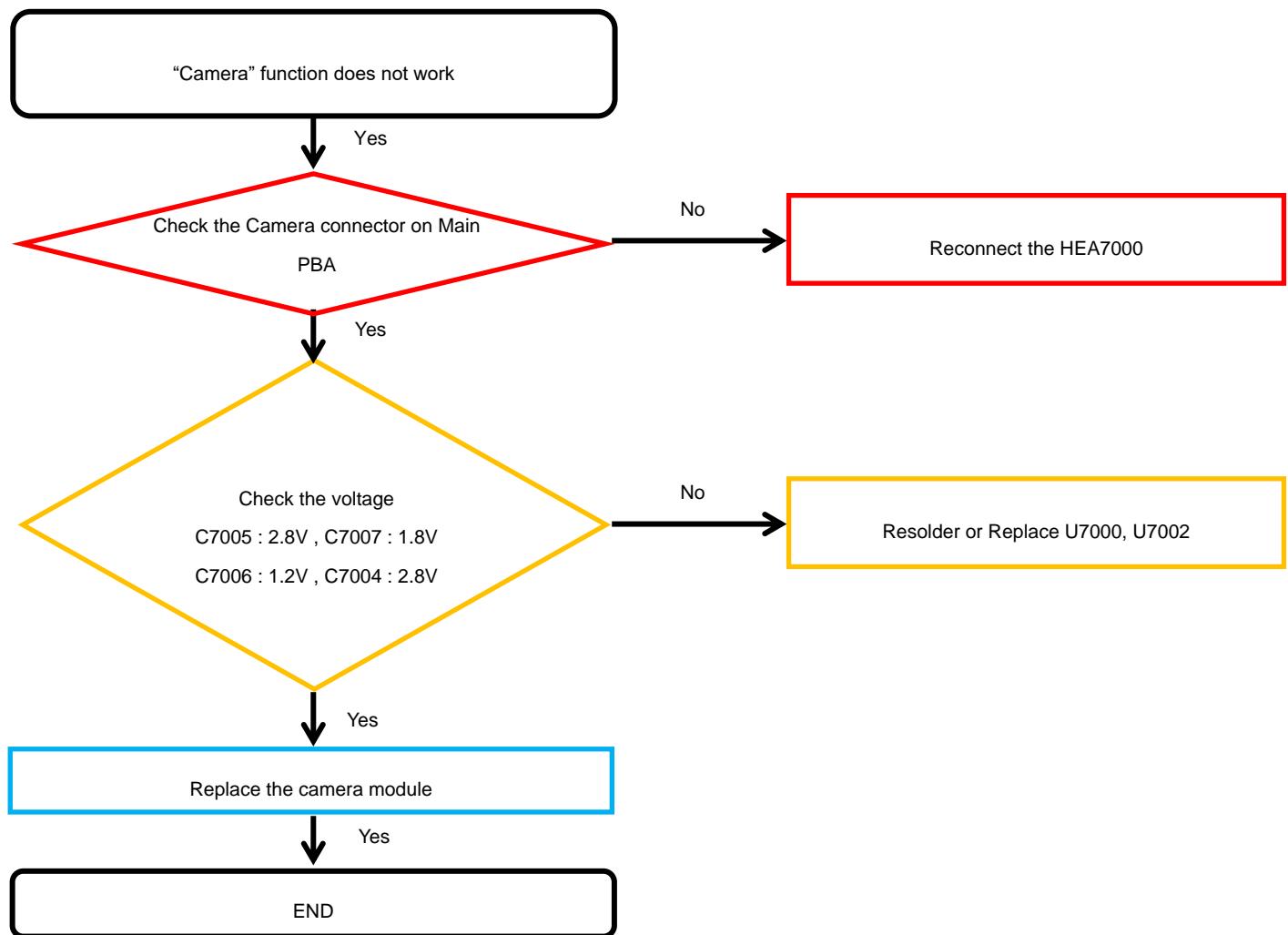
## 8. Level 3 Repair

### 8-4-12. Display



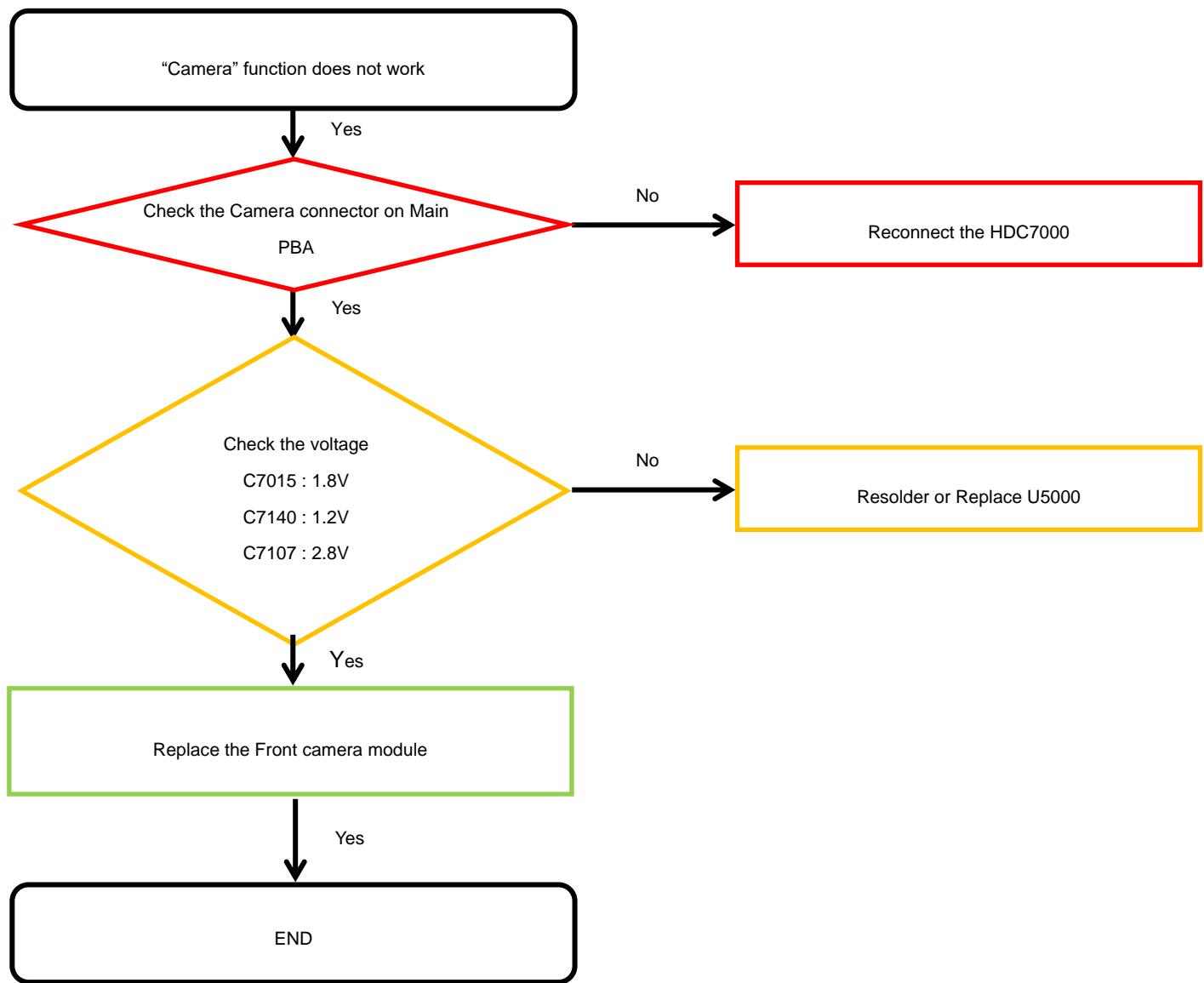
## 8. Level 3 Repair

### 8-4-13. 8M CAMERA



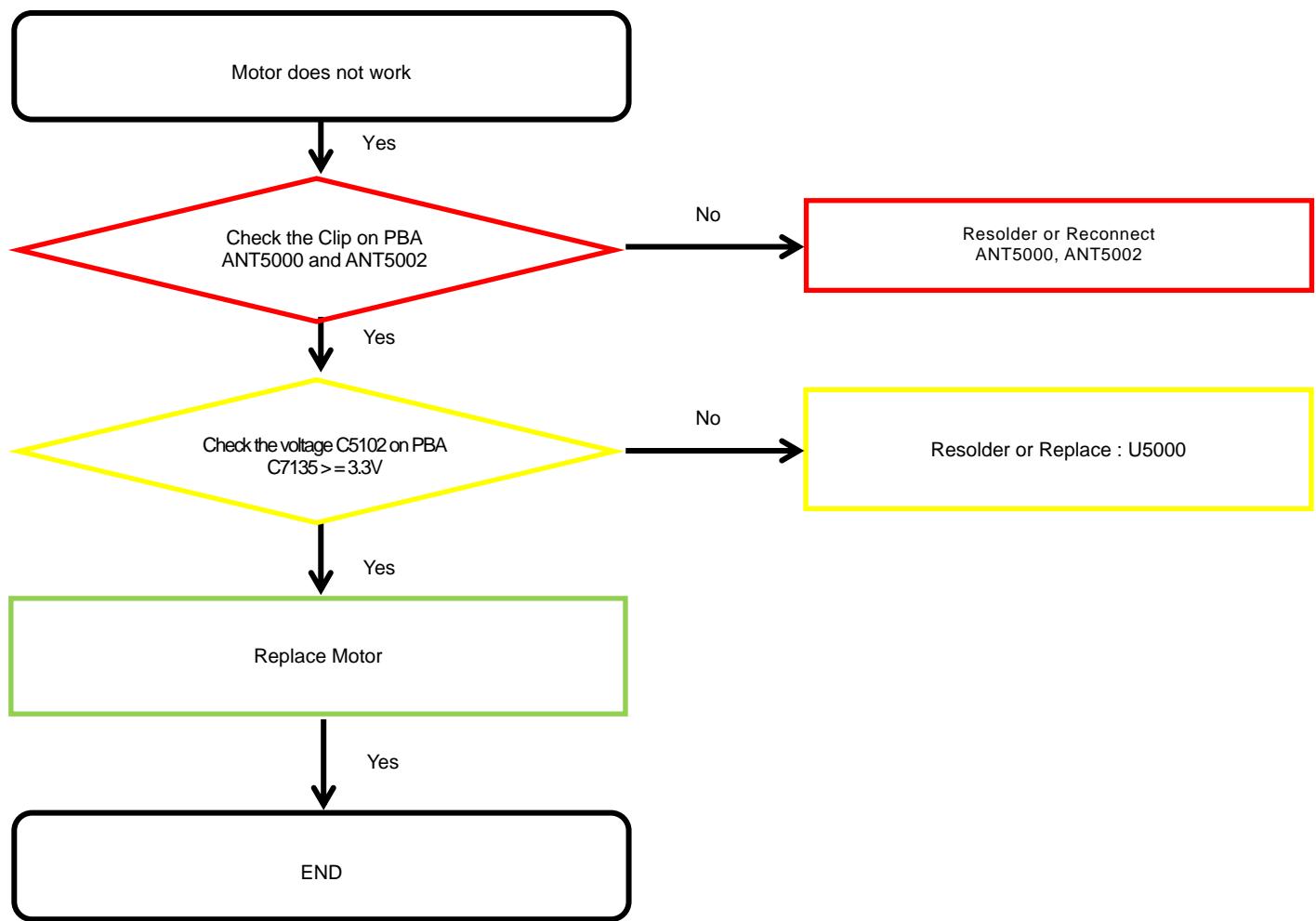
## 8. Level 3 Repair

### 8-4-14. 5M CAMERA



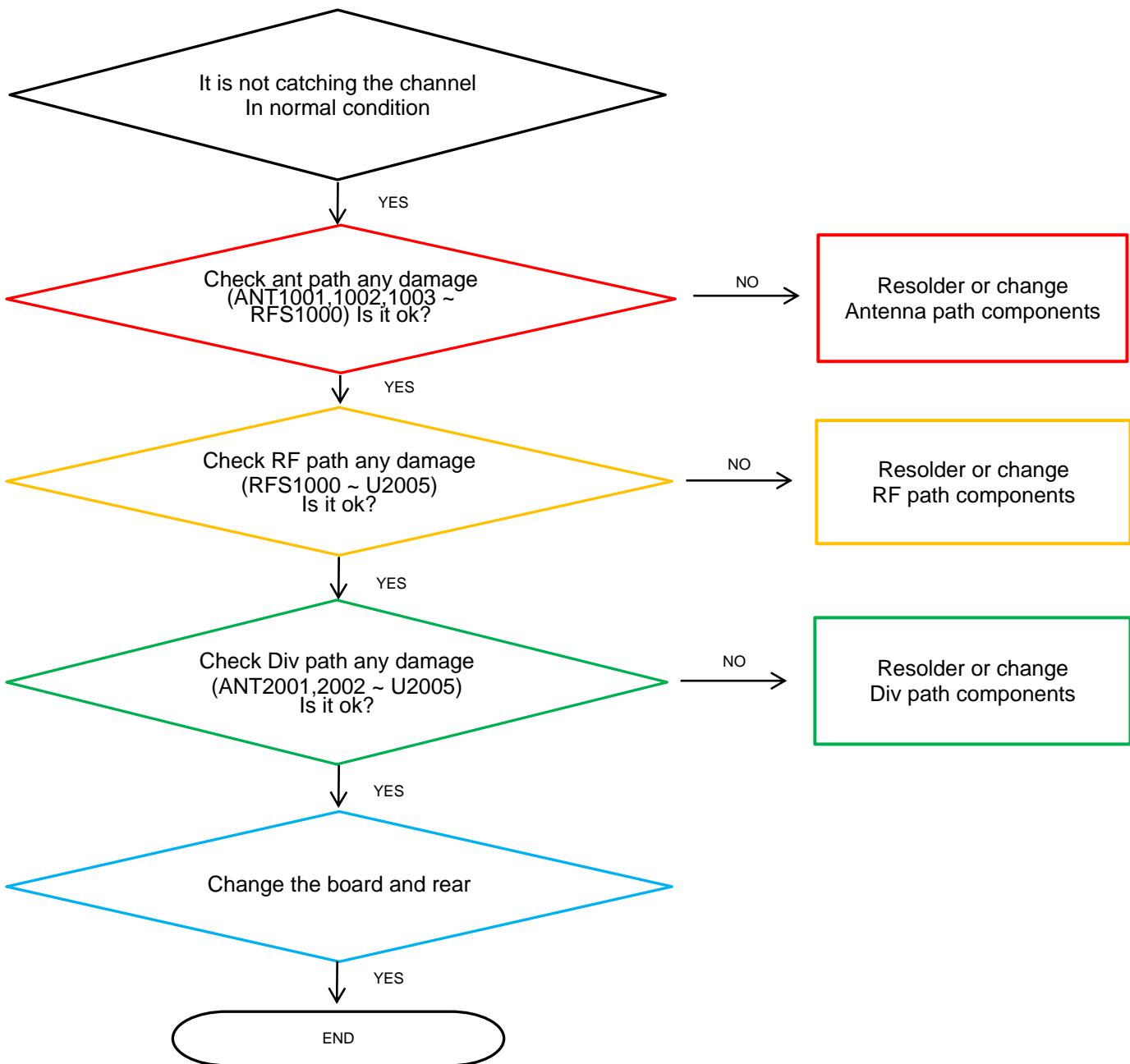
## 8. Level 3 Repair

### 8-4-15. Motor



## 8. Level 3 Repair

8-4-16. GSM/WCDMA/LTE1,2,3,4,5,8,12,13,17,20,28,66



## 8. Level 3 Repair

8-4-17. LTE7,38,40,41

