



# MOBILE PHONE SERVICE MANUAL

CAUTION

BEFORE SERVICING THE UNIT, READ THE "SAFETY PRECAUTIONS" IN THIS MANUAL

**MODEL : LM-X430EMW**

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## 1.1 Purpose

This manual provides the information necessary to repair, calibration, description and download the features of this model.

## 1.2 Regulatory Information

### A. Security

This material is prohibited to share and release to unauthorized person, in accordance with the regulations, LG Electronics, Civil / criminal responsibility in accordance with the relevant provisions violate.

### B. Precautions for repair

- In case of Disassembly or Assembly to repair product, be careful of a product failure caused by RF signals and Static electricity.
- When using Magnetic tool for the Phone's SVC repair, you should check affect the Electric parts according to effect of Magnet.
- When fastening the screw, be careful not to damage the head of screw and even product.

### C. Attention

**Boards, which contain Electrostatic Sensitive Device (ESD), are indicated by the  sign.**

**Following information is ESD handling:**

- Service personal should ground themselves by using a wrist, strap when exchange system board.
- When repair are made to a system board, they should spread the floor with anti-static mat which is also grounded.
- Use a suitable, grounded soldering iron.
- Keep sensitive parts in these protective packages until these are used.
- When returning system board or parts like EEPROM to the Factory, use the protective package as described.

### 2.1 Band Specification

Support Band	TX Freq (MHz)	RX Freq (MHz)
WCDMA(FDD1)	1920 – 1980	2110 – 2170
WCDMA(FDD2)	1850 – 1910	1930 – 1990
WCDMA(FDD5)	824 – 849	869 – 894
WCDMA(FDD8)	880 – 915	925 – 960
EGSM	880 – 915	925 – 960
GSM850	824 – 849	869 – 894
DCS1800	1710 – 1785	1805 – 1880
PCS1900	1850 – 1910	1930 – 1990
LTE1	1920 – 1980	2110 – 2170
LTE3	1710 – 1785	1805 – 1880
LTE7	2500 – 2570	2620 – 2690
LTE8	880 – 915	925 – 960
LTE20	832 – 862	791 – 821
LTE38	2570 – 2620	2570 – 2620

## 2. PERFORMANCE

### 2.2 HW Features

List	Type / Spec.	
1. Phone Type	DOP Type	
2. Size	156.3mm x 73.9mm x 8.6mm	
3. Weight	169g ( with Battery )	
4. Battery	3500mAh(Typ), 3400mAh(Min), 3.87V, (Li-ion)	
5. Chipset	MT6762 2.0GHz Octa core (Quad x Max 2.0G + Quad x Max 1.5G)	
6. Memory	32GB(eMMC) + 2GB(LPDDR3) External Memory(SD Card) : Up to 2TB	
7. LCD	Size	6.088" HD+ (1560 x 720)
	Display Type	Active matrix TFT, Transmissive Type
	Color	16.7M colors
	Resolution	HD+(1560(V) x 720(H)), 282ppi
8. Touch	Type	6.088 inch GFF
9. Main Camera (13M)	Type	CMOS image sensor
	Resolution	4160(H) X 3120(V) pixels.
	Image Scaling Down	4:3(13.0MP – 4160x3120), 4:3(6.5MP – 2944x2208) 16:9(9.7MP – 4160x2340), 16:9(4.9MP – 2944x1656) FullVision(8.0MP – 4160x1920), FullVision(4.0MP – 2944x1360) 1:1(9.7MP – 3120x3120), 1:1(3.4MP – 1840x1840)
	Format	Image : JPG, Video : MP4

### 2.2 HW Features

9. Main Wide Camera(W5M)	Type	CMOS image sensor
	Resolution	2560(H) X 1920(V) pixels
	Image Scaling Down	4:3(5.0MP – 2560x1920), 4:3(2.5MP – 1824x1368) 16:9(3.7MP – 2560x1440), 16:9(1.9MP – 1824x1026) FullVision(3.0MP – 2560x1182), Fullvision(1.5MP – 1824x842) 1:1(3.7MP – 1920x1920), 1:1(0.5MP – 720x720)
	Format	Image : JPG, Video : MP4
10. Audio	Receiver	08 X 09 X 2.7T Receiver
	Speaker	15 X 11 X 2.8T Speaker
	Format	MP3, AAC, MIDI, EAAC+, OGG, AMR
11. Bluetooth	Standard	Bluetooth 5.0
	Effective Distance	10M
	Distance	0 m ~ 10 m (depend on environment)
12. WLAN	Standard	IEEE 802.11 b/g/n
	Depend on environment	0 ~ 50m (depend on environment)
13. GPS	type	A-GPS, GLONASS
14. NFC	Chipset	PN553,NXP

## 2. PERFORMANCE

### 2.3 RSSI Display

RSSI BAR	GSM RSSI	WCDMA RSSI	LTE RSSI	Comment
BAR 5->4	- 90dBm± 4dB	- 85dBm± 4dB	-85dBm ± 4dB	1. Call Connected & CPIPH Level=-3.3 2. LTE:RSRP
BAR 4->3	- 95dBm± 4dB	- 90dBm± 4dB	-95dBm ± 4dB	
BAR 3->2	- 98dBm± 4dB	- 96dBm± 4dB	-105dBm ± 4dB	
BAR 2->1	- 102dBm± 4dB	- 100dBm± 4dB	-115dBm ± 4dB	
BAR 1->0	- 104dBm± 4dB	- 106dBm± 4dB	-128dBm ± 4dB	

### 2.4 Current consumption

	Stand by		Voice Call (LTE Data connection)	Measurement Condition
	Bluetooth Off	Bluetooth Connected		
WCDMA Only	11 mA under(DRX=7)	13 mA under(DRX=7)	350mA under(Tx=10dBm)	LCD off
GSM Only	11 mA under(PP=5)	13 mA under (PP=5)	360mA under(Lvl=5)	LCD off
LTE	11 mA under(LTE 2.56S)	13 mA under(LTE 2.56s)	350mA(@TX 10 dBm)	LCD off
VoLTE	11 mA under(LTE 2.56S)	13 mA under(LTE 2.56s)	400mA(@TX 10 dBm)	LCD off

### 2.5 Battery bar

Battery Bar icon	Specification(%)
Level 20	98 ~ 100
Level 19	93 ~ 97
Level 18	88 ~ 92
Level 17	83 ~ 87
Level 16	78 ~ 82
Level 15	73 ~ 77
Level 14	68 ~ 72
Level 13	63 ~ 67
Level 12	58 ~ 62
Level 11	53 ~ 57
Level 10	48 ~ 52
Level 9	43 ~ 47
Level 8	38 ~ 42
Level 7	33 ~ 37
Level 6	28 ~ 32
Level 5	23 ~ 27
Level 4	16 ~ 22
Level 3	13 ~ 15
Level 2	8 ~ 12
Level 1	3 ~ 7
Level 0	0 ~ 2
Low Battery Pop-up	16% → 15% : One Time popup (No call) There is no pop-up until 5% if you delete pop-up.
Critical Low battery pop-up	6% → 5% : One Time popup (No call) There is no pop-up until 3% if you delete pop-up.
Power off	Under 1%



## 2. PERFORMANCE

### 2.6 SW Specification

Item	Feature	Comment
RSSI	0 ~ 5 Levels	
Battery Charging	0 ~ 100 Levels	
Key Volume	0 ~ 15 Level	
Audio Volume	0 ~ 15 Level	
Time / Date Display	Yes	
Multi-Language	Yes	depending on build language
Quick Access Mode	Phone / Messaging / Camera / Gallery / Chrome	Phone / Messaging / Camera / Gallery / Chrome
PC Sync	No	PC Bridge
Speed Dial	Yes	Voice mail center -> 1 key
Profile	Yes	not same with feature phone setting
CLIP / CLIR	Yes	
Phone Book	Name / Number / Email / Groups / Postal addresses / Organizations / IM / Note / Nickname / Website / Event /	There is no limitation on the number of items. It depends on available memory amount.
Last Dial Number	Yes	
Last Received Number	Yes	
Last Missed Number	Yes	
Search by Number/Name	Yes	
Group	Yes	There is no limitation on the number of items. It depends on available memory amount.
Fixed Dial Number	Yes	
Service Dial Number	Yes	It depends on operator requirements.
Own Number	Yes	My Profile (add/edit/delete are supported)

## 2. PERFORMANCE

### 2.6 SW Specification

Voice Memo	Yes	Support voice recorder
Call Reminder	No	
Network Selection	Automatic	
Mute	Yes	
Call Divert	Yes	
Call Barring	Yes	
Call Charge (AoC)	No	
Call Duration	Yes	
SMS (EMS)	There is no limitation on the number of items. It depends on available memory amount.	EMS does not support.
SMS Over GPRS	No	
EMS Melody / Picture Send / Receive / Save	No	
MMS MPEG4 Send / Receive / Save	Yes	<ul style="list-style-type: none"> <li>➤ Send / Receive : Yes</li> <li>➤ Save : depends on content type Support video content type list</li> <li>1. video/mp4</li> <li>2. video/h263</li> <li>3. video/3gpp2</li> <li>4. video/3gpp</li> </ul>
Long Message	MAX 2000 characters	The standard of Open vender
Cell Broadcast	Yes	CB app supports Cell Broadcast message
Download	Over the Web	
Game	No	
Calendar	Yes	
Memo	Yes	There is no limitation on the number of items. It depends on available memory amount.
World Clock	Yes	

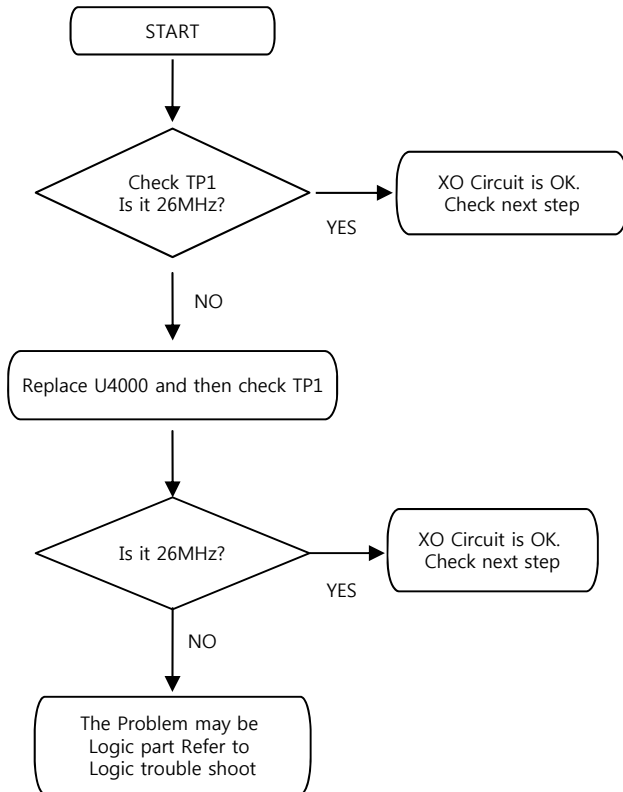
### 2.6 SW Specification

Unit Convert	No	
Stop Watch	Yes	
Wall Paper	Yes	
WAP Browser	No	Support only web browser via Chrome. WAP stack and wml are not supported.
Download Melody/Wallpaper	Yes	Over web browser
SIM Lock	Yes	
SIM Toolkit	Yes	
MMS	Yes	Android Message
EONS	Yes	
CPHS	Yes	V4.2
ENS	No	
Camera	Yes	Front 13M, Rear 13M + W5M
JAVA	No	
Voice Dial	No	
IrDa	No	
Bluetooth	Yes	Ver. 5.0
FM radio	No	
GPRS	Yes	Class 12
EDGE	Yes	Class 12
Hold / Retrieve	Yes	
Conference Call	Yes	Max. 6
DTMF	Yes	
Memo pad	No	
TTY	No	
AMR	Yes	
SyncML	No	
IM	No	Hangout was IM, but it's not preloaded anymore.
Email	Yes	

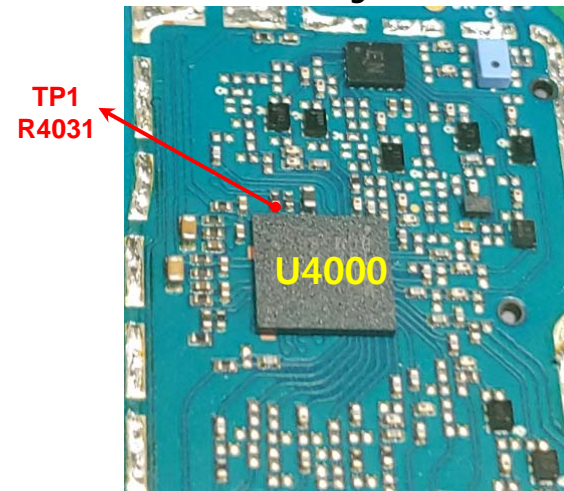
## 3.1 Checking XO Block

The output frequency(26MHz) of VCTXO(X15000) is used as the reference one of MT6176

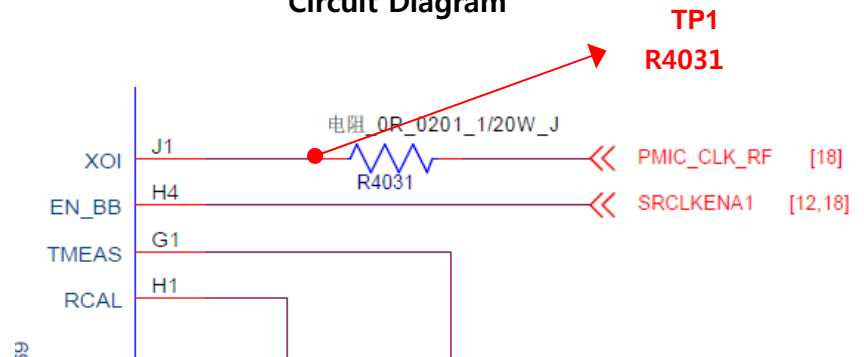
### Checking Flow



Image

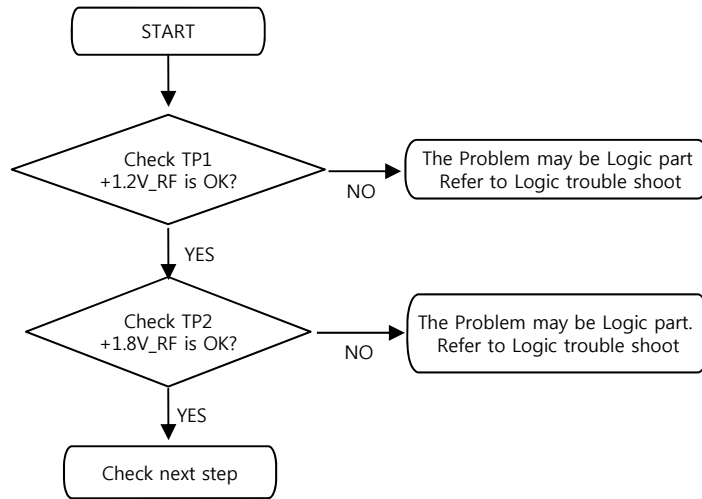


Circuit Diagram

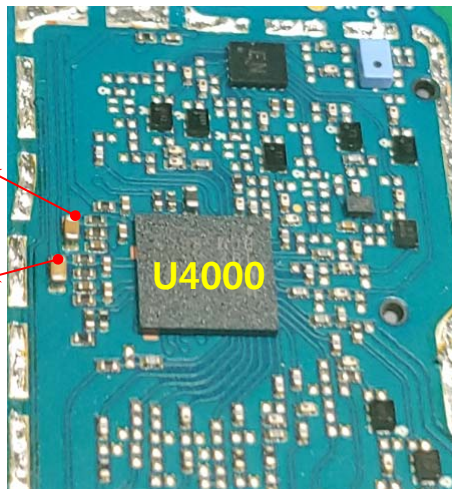


## 3.2 Transceiver DC Power Supply Circuit Checking Transceiver DC Power Supply Circuit

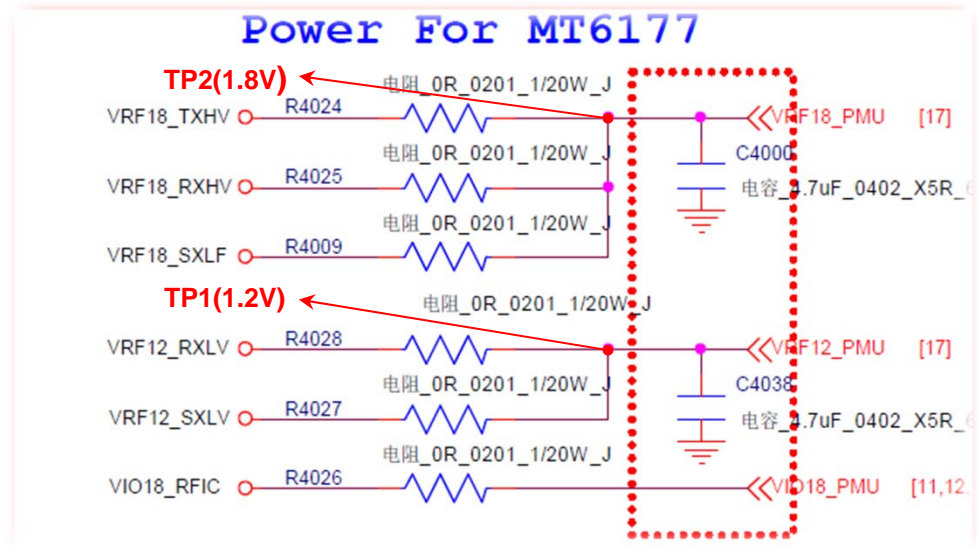
### Checking Flow



### Image

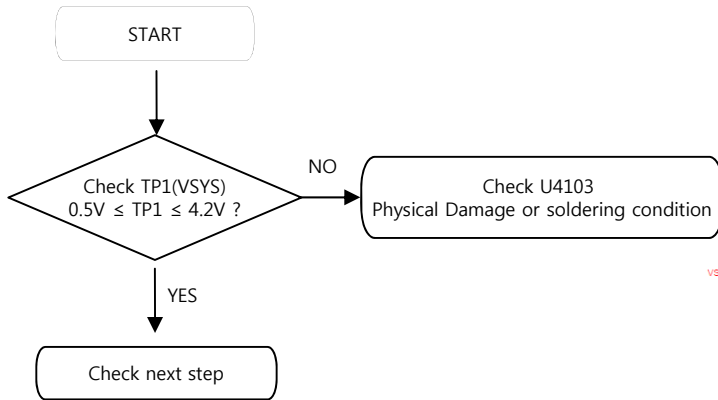


### Circuit Diagram

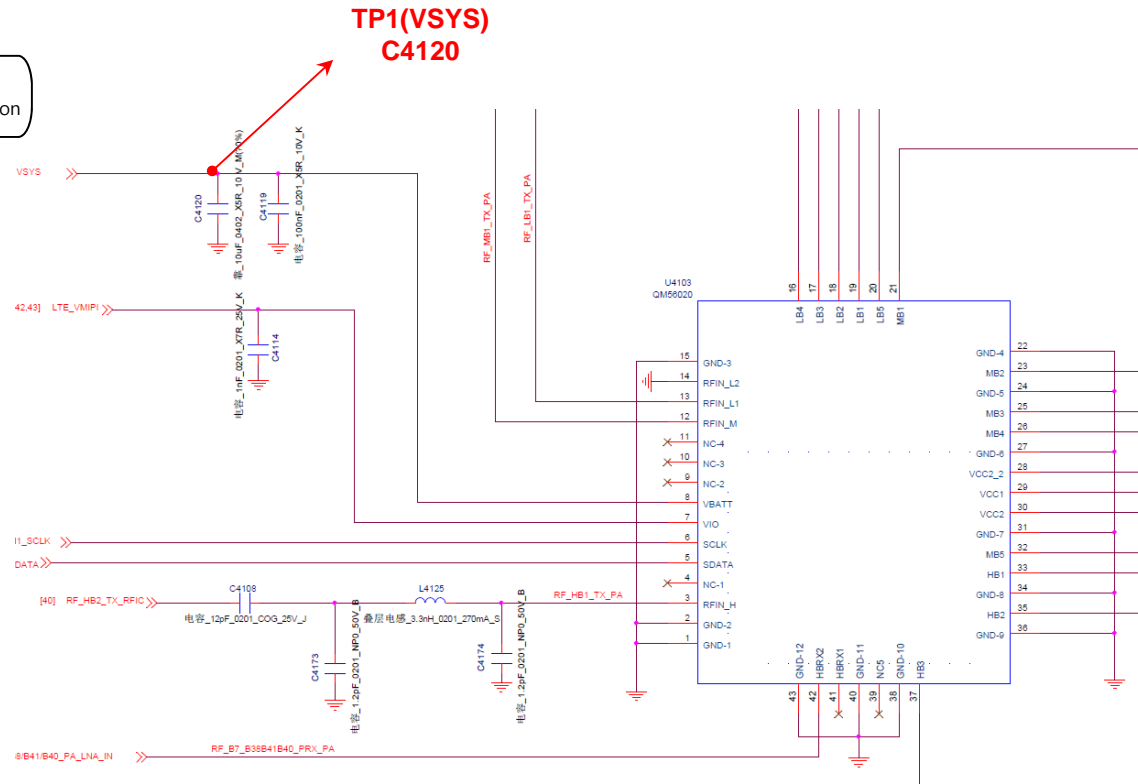


## 3.3 DC-DC Block Checking DC-DC Block

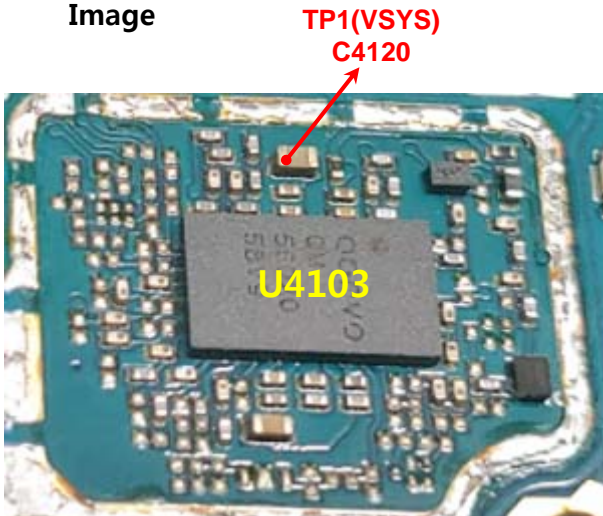
### Checking Flow



### Circuit Diagram



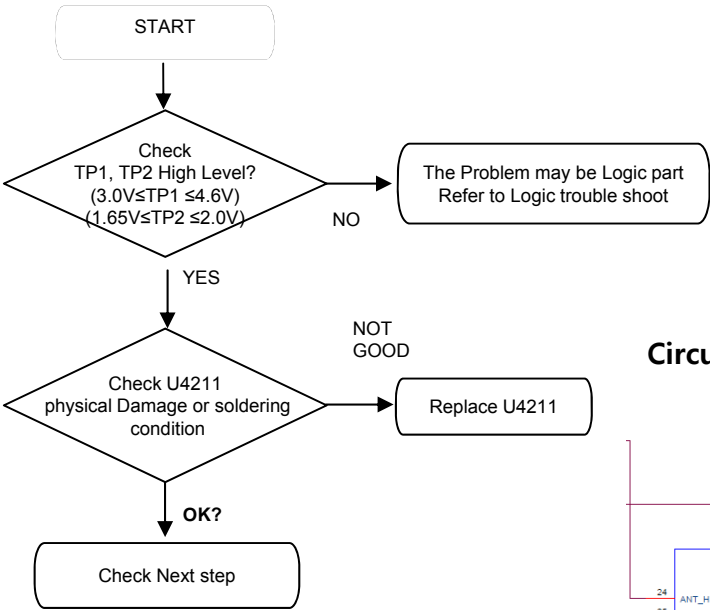
### Image



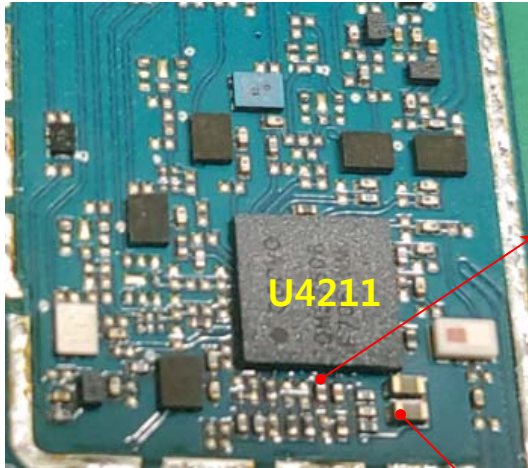
# 3.TROUBLE SHOOTING

## 3.4 ASM Block Checking ASM Block

### Checking Flow



Image



TP2(1.8V)  
C4242

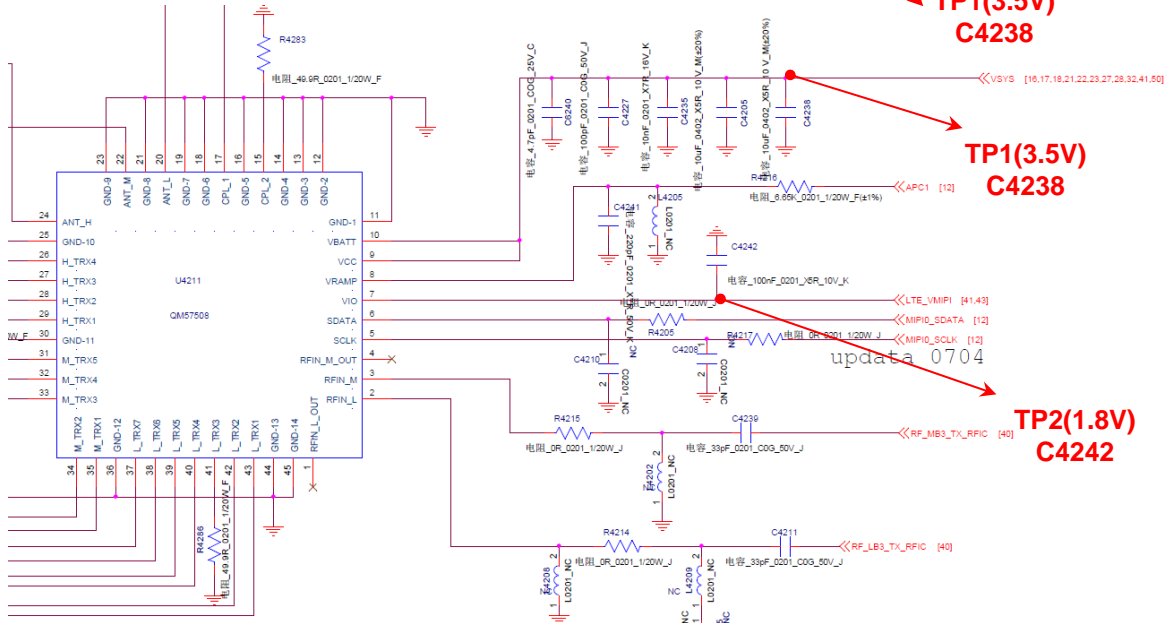
**U4211**

TP1(3.5V)  
C4238

TP1(3.5V)  
C4238

TP2(1.8V)  
C4242

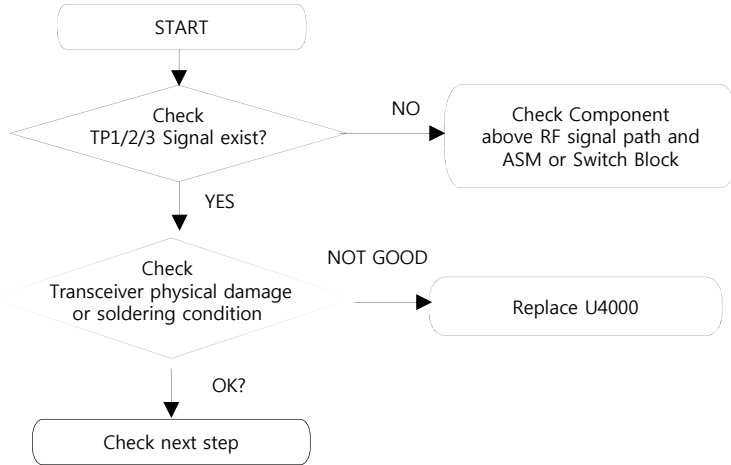
Circuit Diagram



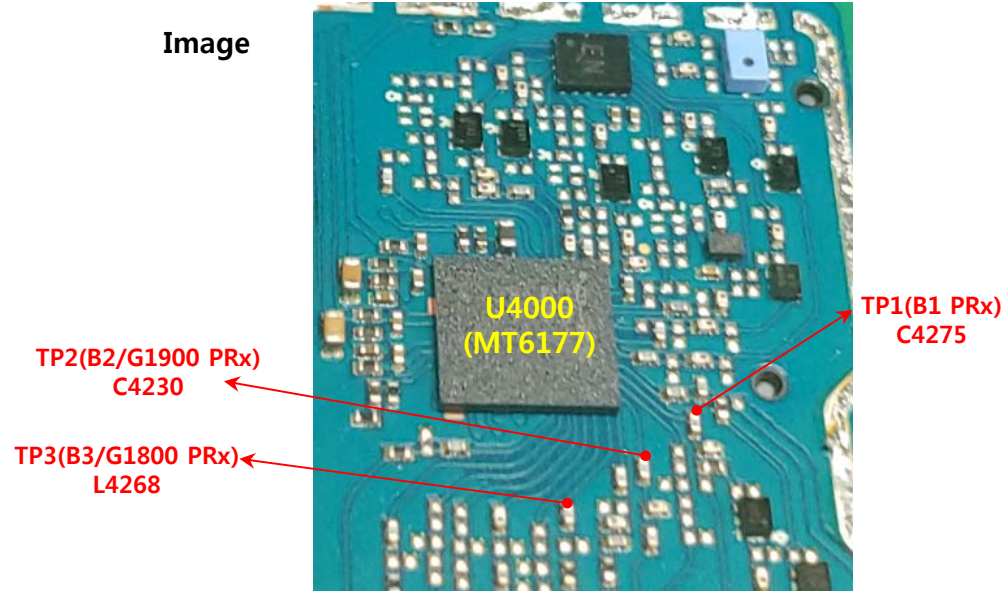
3.5.1 GSM, WCDMA, LTE PART(MB) - PRx

Checking Rx signal path (GSM 1800/1900 WCDMA B1/B2, LTE B1/B3)

Checking Flow

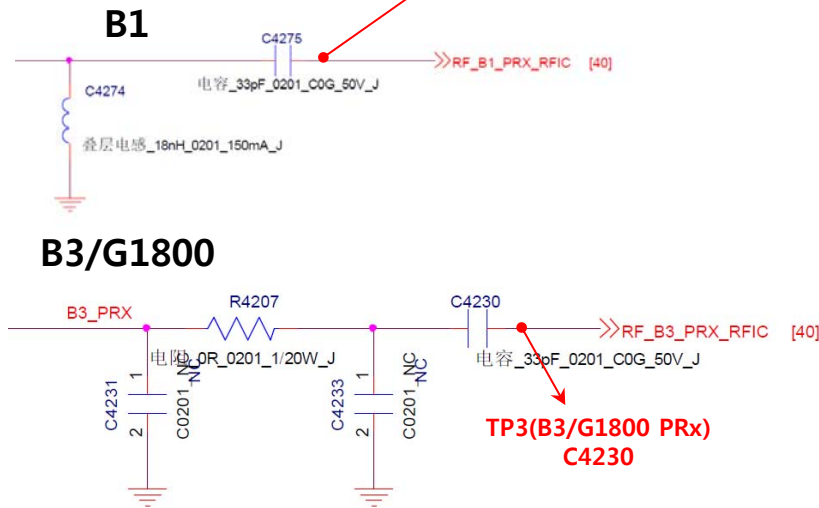


Image



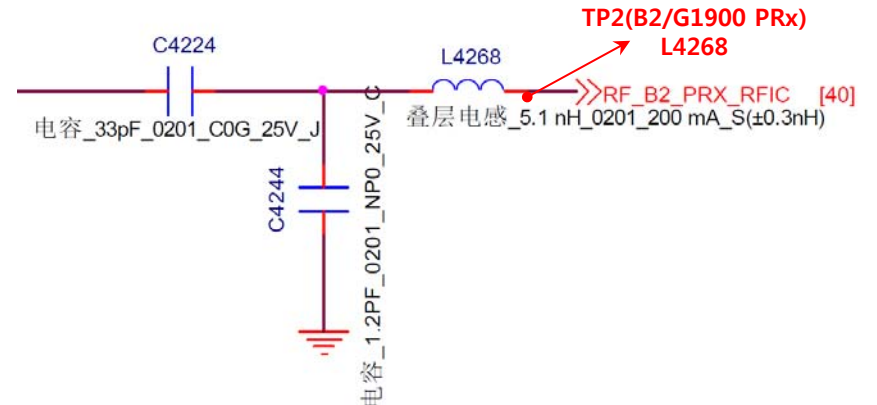
Circuit Diagram

TP1(B1 PRx)  
C4275



B2/G1900

TP2(B2/G1900 PRx)  
L4268

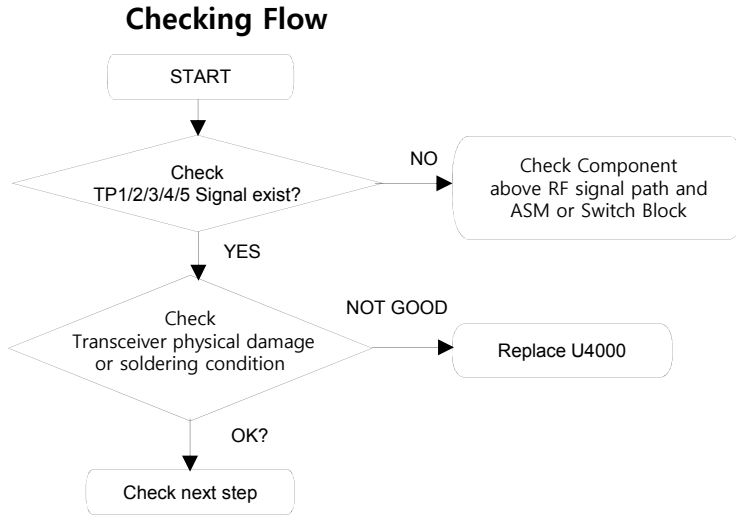
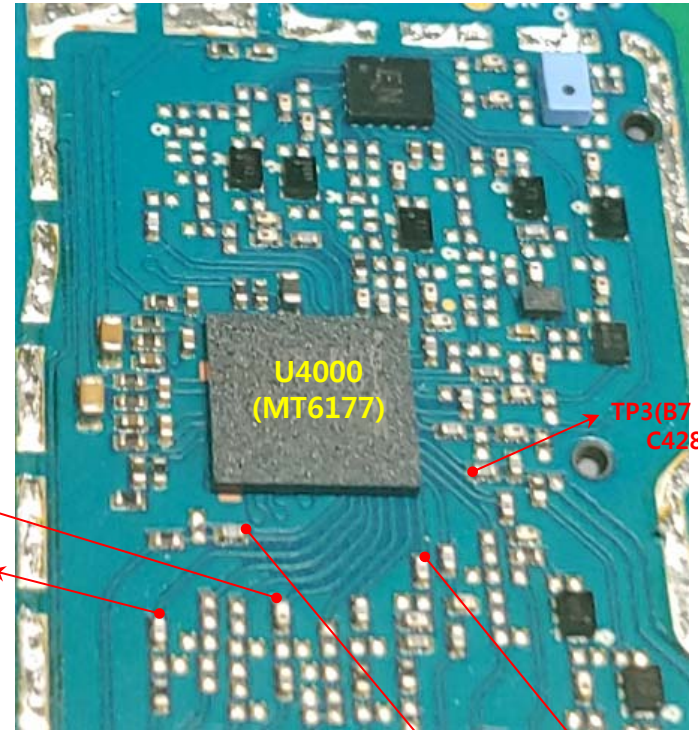




3.5.1 GSM, WCDMA, LTE PART(LB/HB) - PRx

Checking Rx signal path (GSM850/900, WCDMA B5/B8, LTE B7/B8/B20/B38)

Image

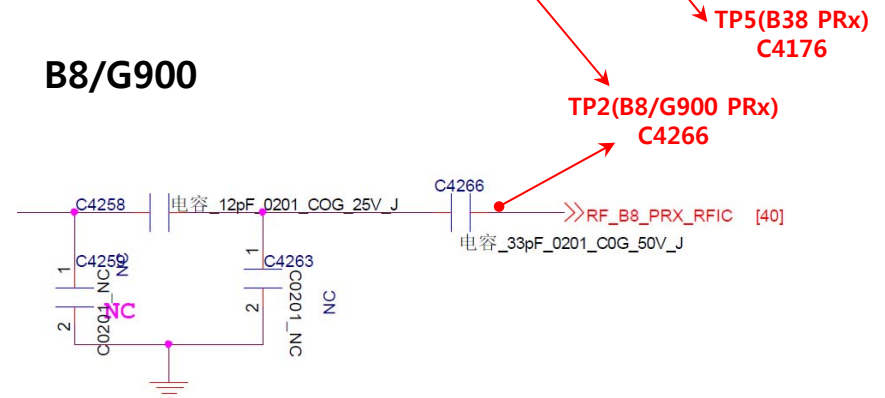


Circuit Diagram

B5/G850

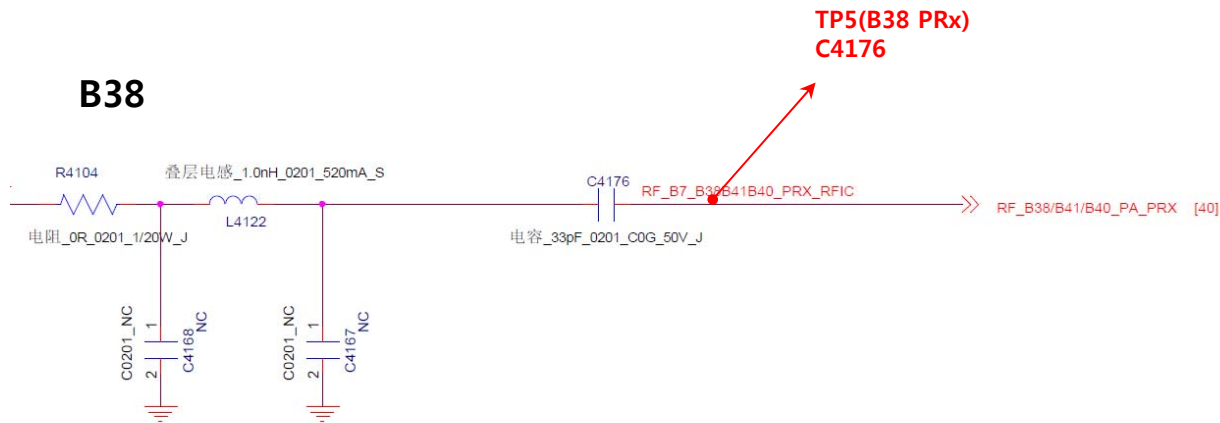
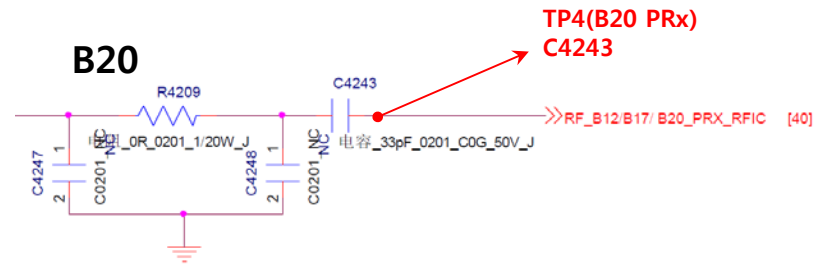
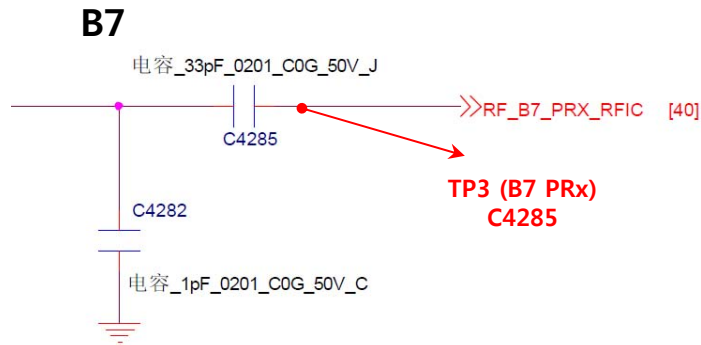


B8/G900



3.5.1 GSM, WCDMA, LTE PART(LB/HB) - PRx

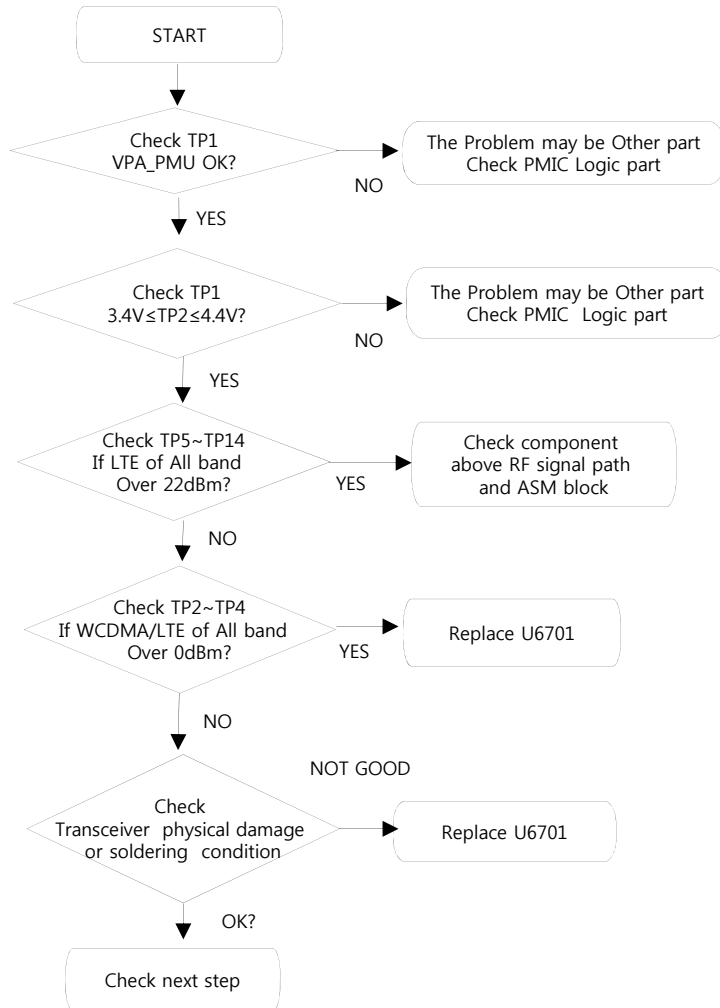
Checking Rx signal path (GSM850/900, WCDMA B5/B8, LTE B7/B8/B20/B38)



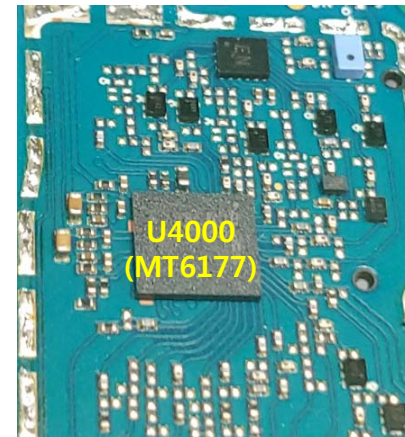
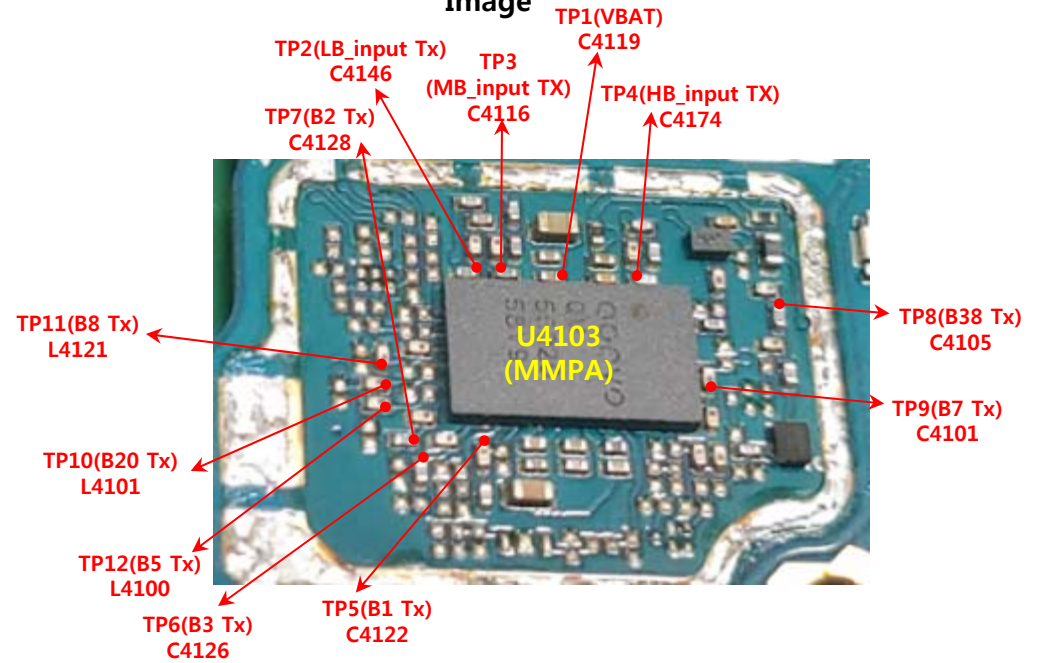
3.5.2 WCDMA, LTE PART - Tx

Checking Tx signal path(WCDMA B1/B2/B5/B8, LTE B1/B3/B7/B8/B20/B38)

Checking Flow



Image



3.5.2 WCDMA, LTE PART - Tx

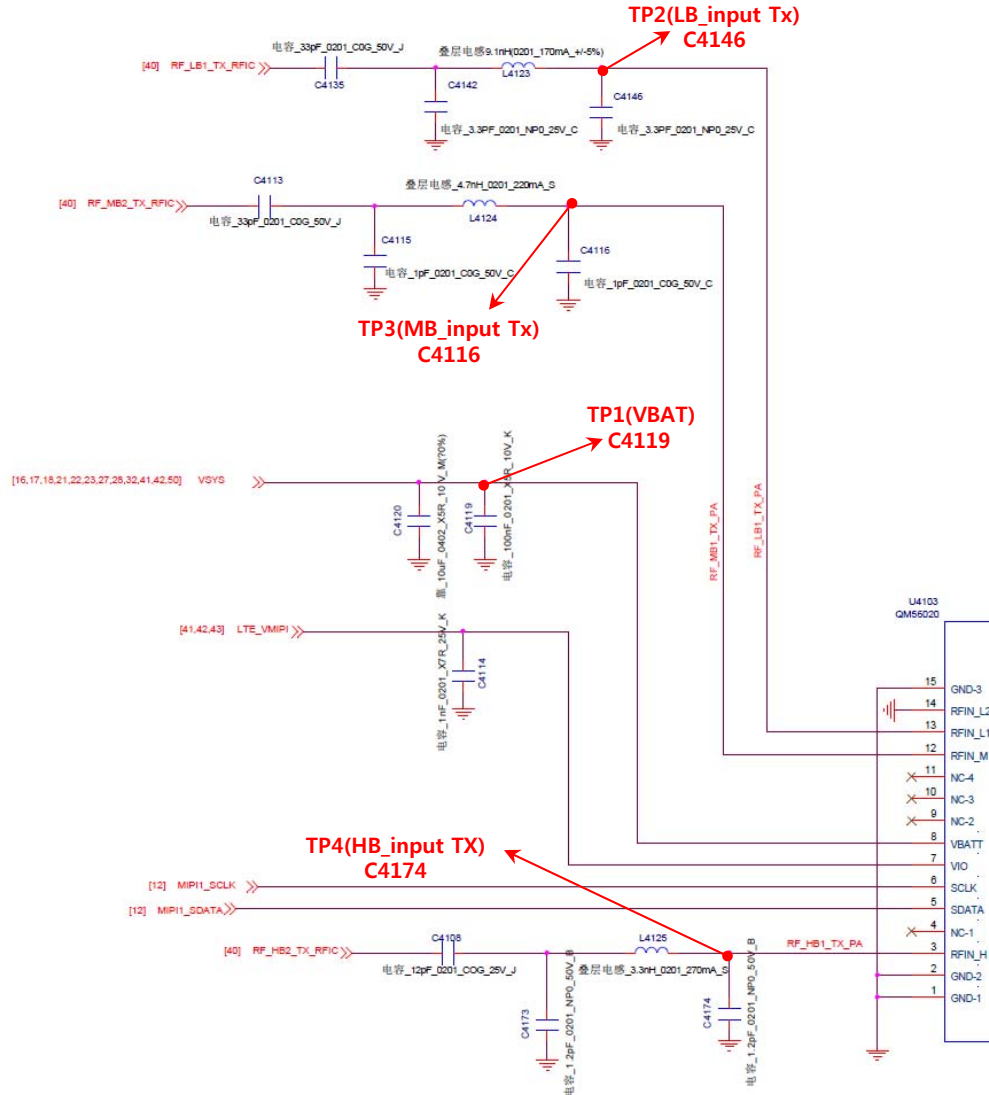
Circuit Diagram

MMPA Input

LB\_input Tx

MB\_input Tx

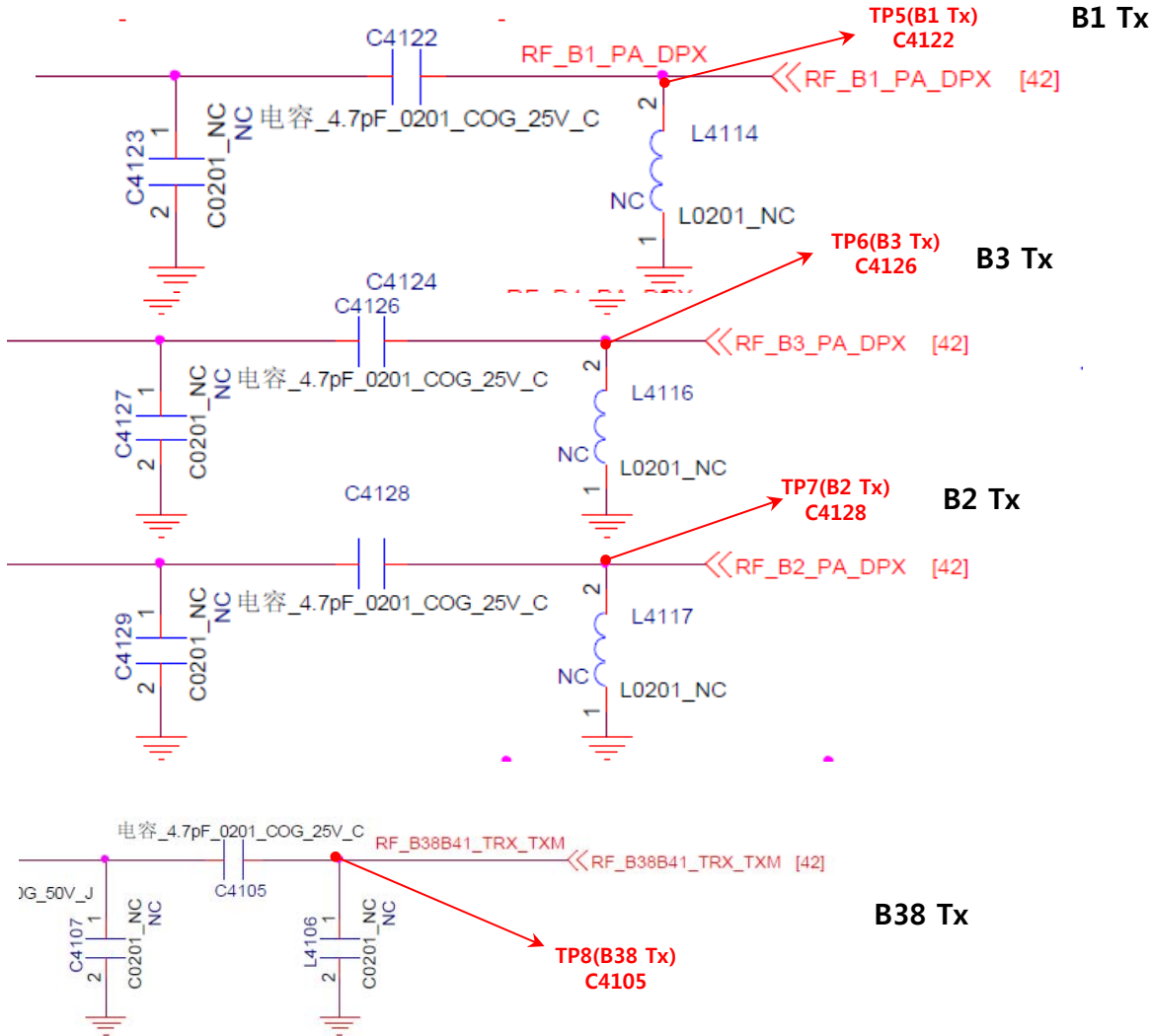
HB\_input Tx



3.5.2 WCDMA, LTE PART - Tx

MMPA Output

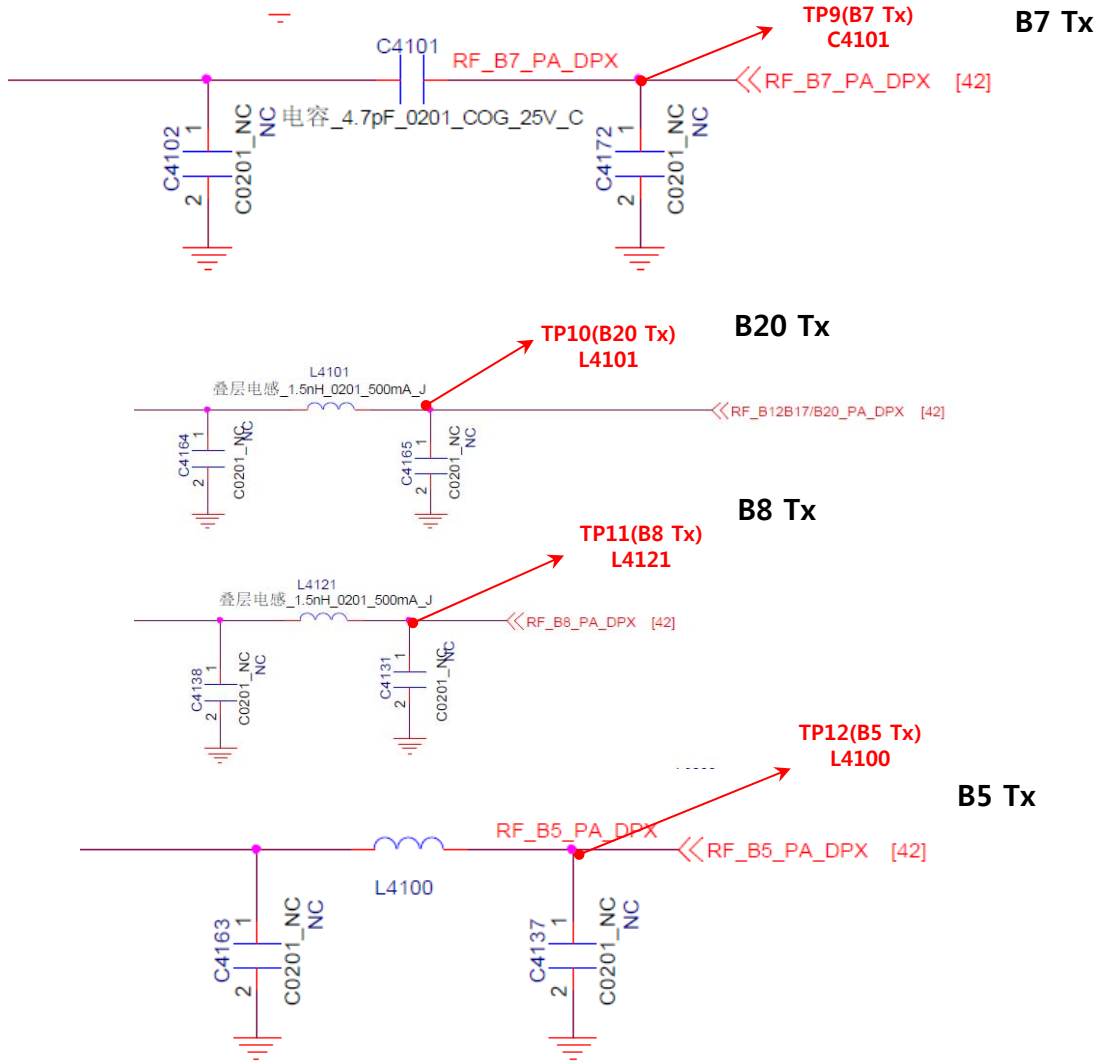
Circuit Diagram



3.5.2 WCDMA, LTE PART - Tx

MMPA Output

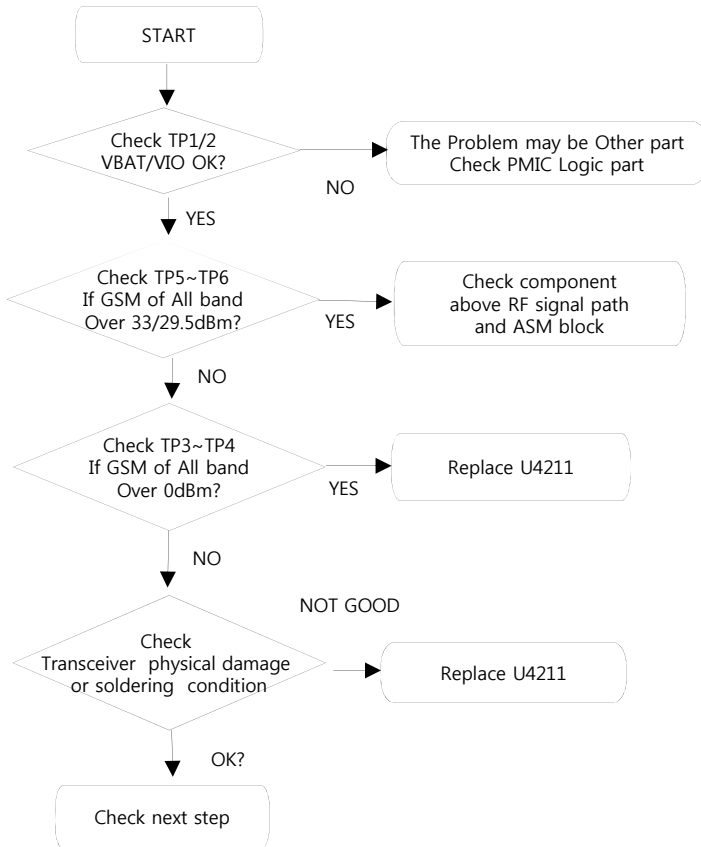
Circuit Diagram



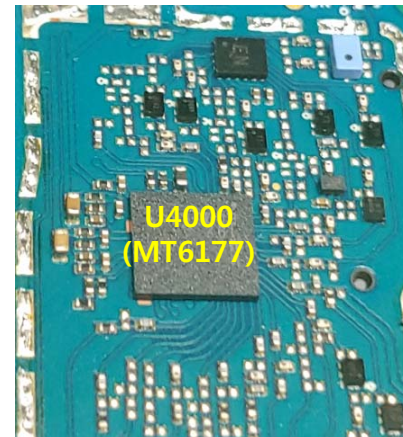
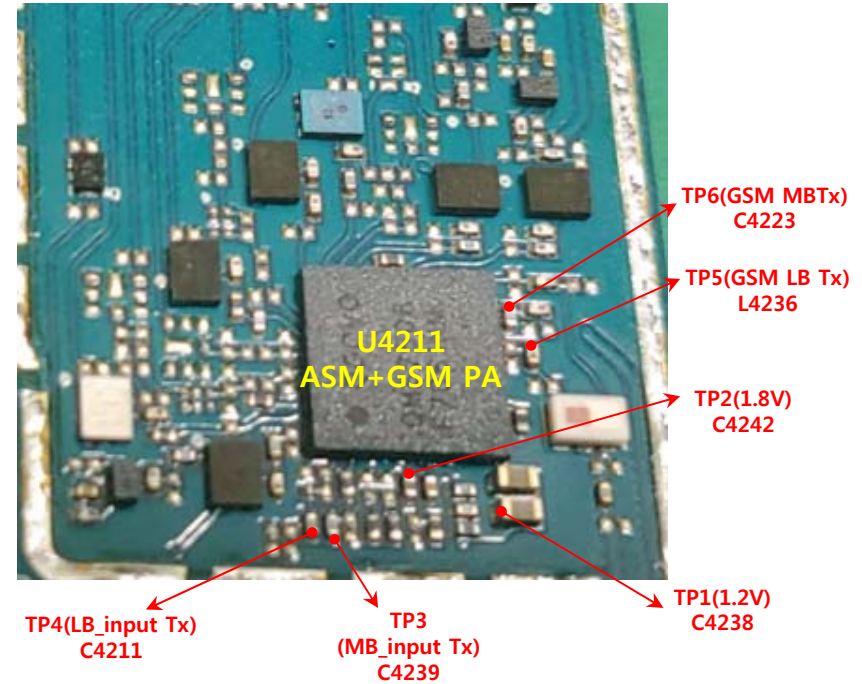
## 3.5.3 GSM PART - Tx

### Checking Tx signal path(GSM850/900/1800/1900)

#### Checking Flow

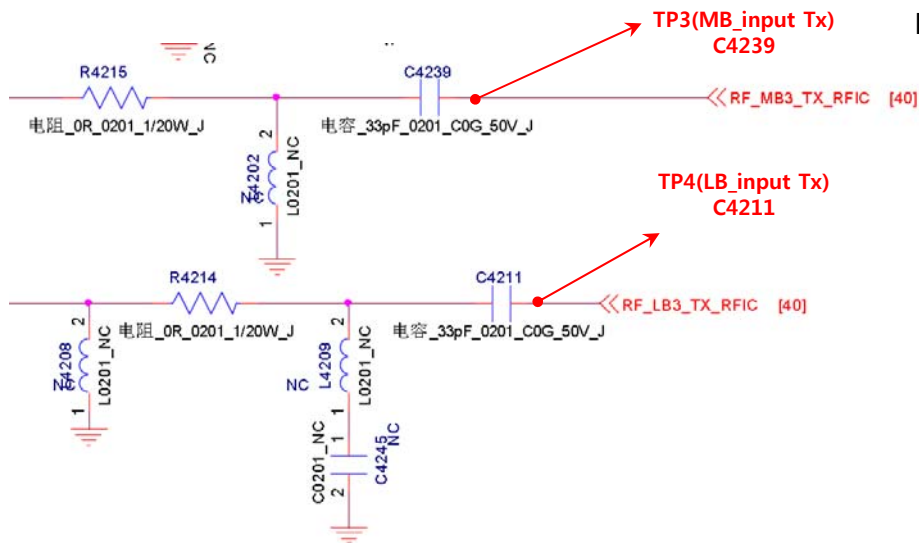
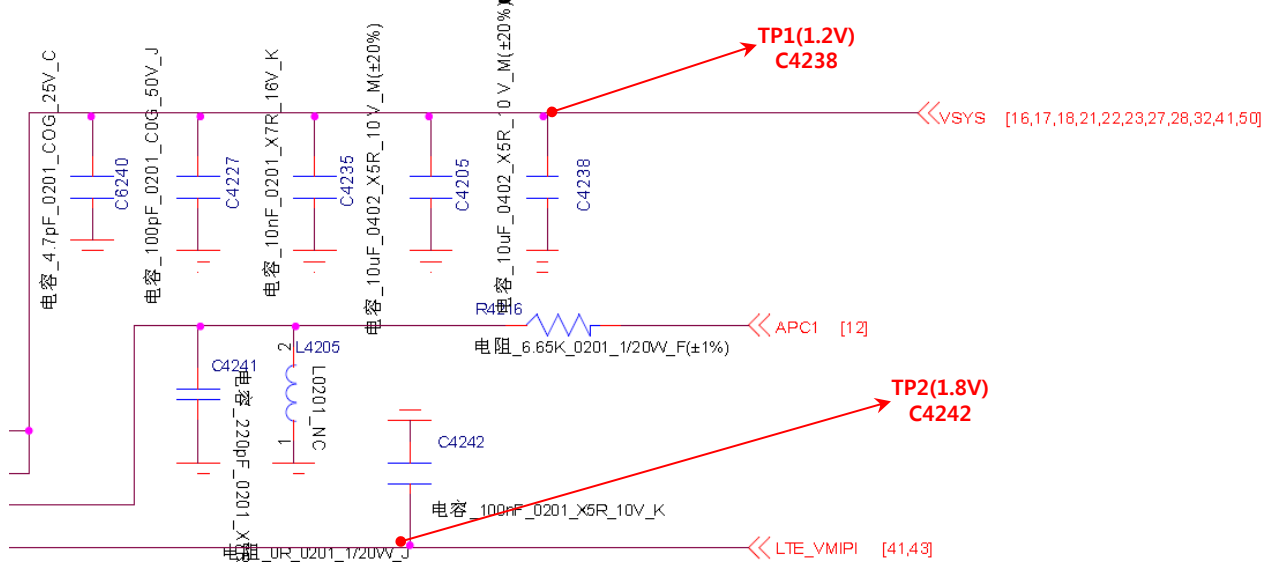


Image



## 3.5.3 GSM PART - Tx

### Circuit Diagram

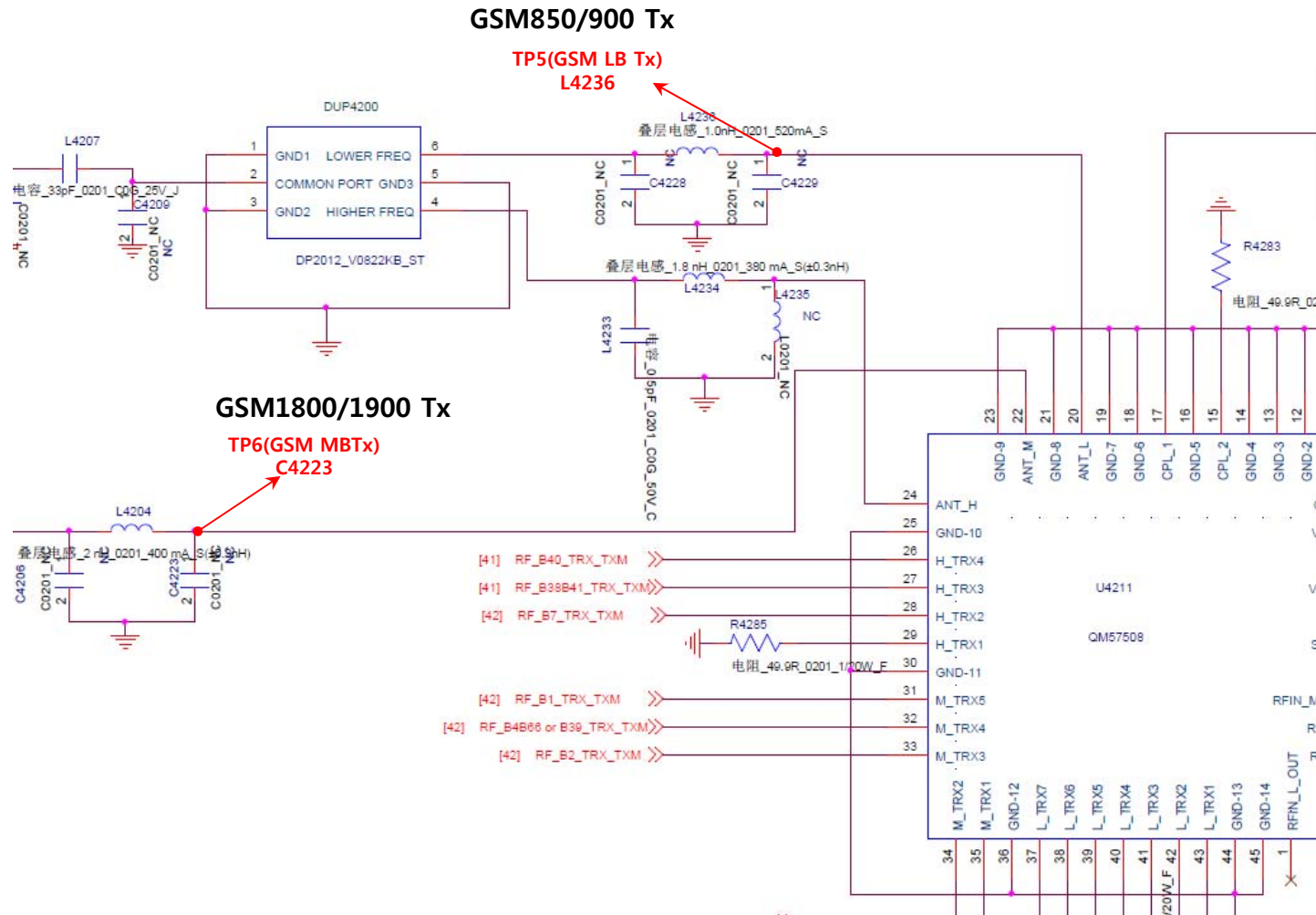




3.5.3 GSM PART - Tx

GSM Output

Circuit Diagram

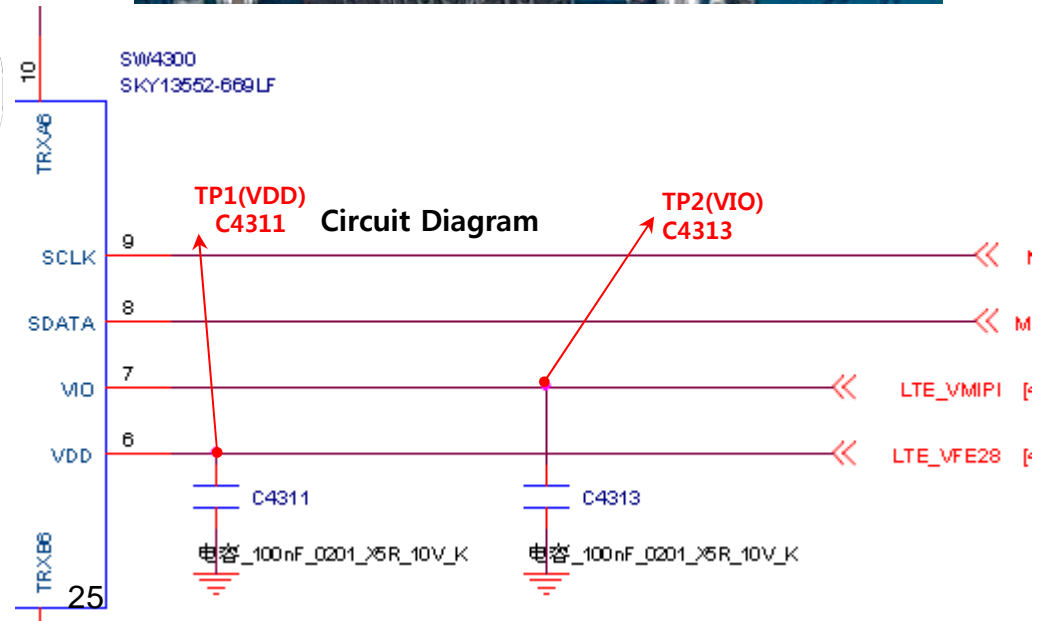
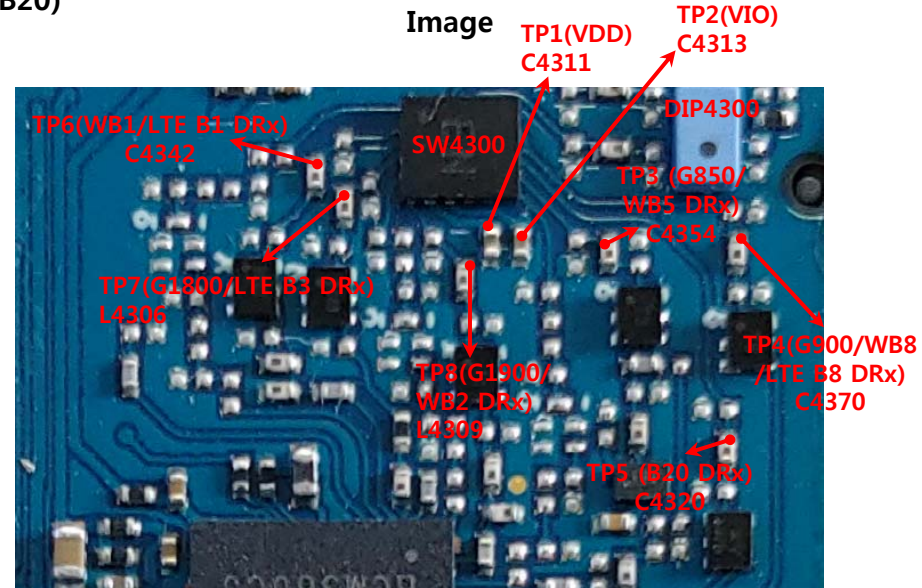
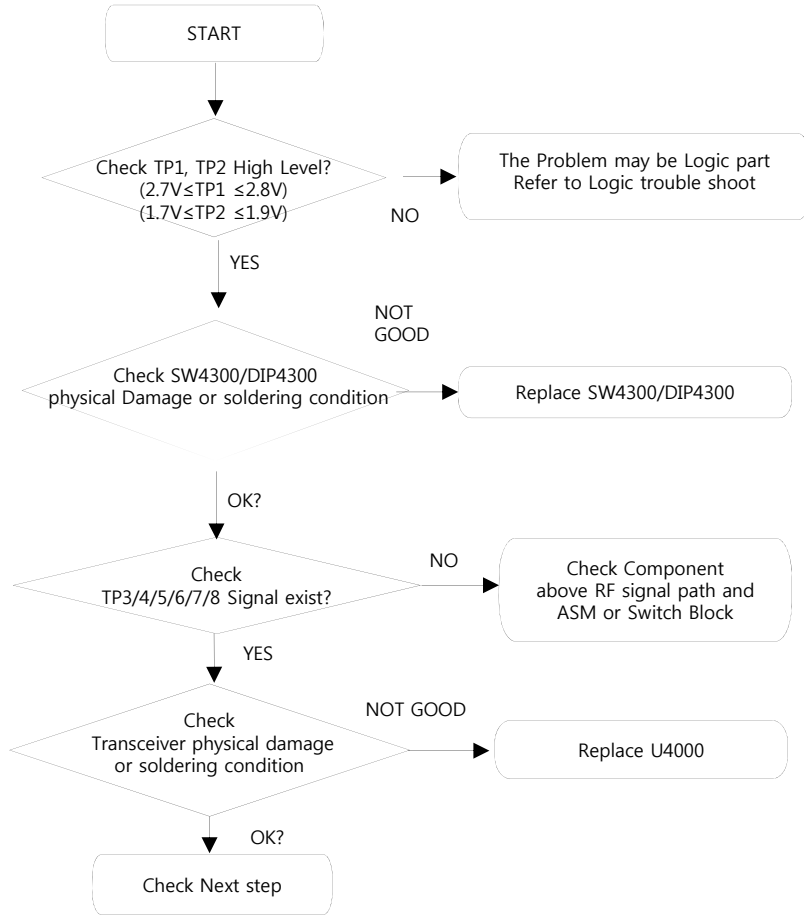


## 3.5.4.1 GSM,WCDMA, LTE PART - DRX

### Checking DRX RF signal path

(GSM850/900/1800/1900 WCDMA B1/B2/B5/B8 LTE B1/B3/B8/B20)

#### Checking Flow

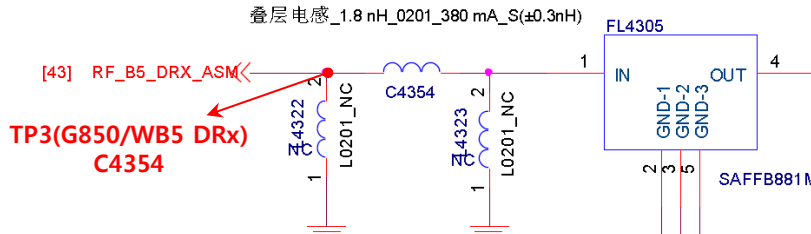


3.5.4.1 GSM,WCDMA, LTE PART - DRX

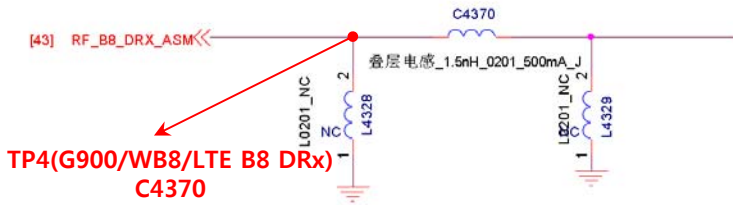
Checking DRX RF signal path

(GSM850/900/1800/1900 WCDMA B1/B2/B5/B8 LTE B1/B3/B8/B20)

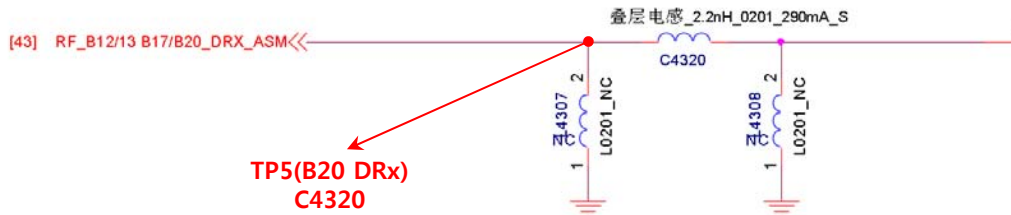
# B5 DRX



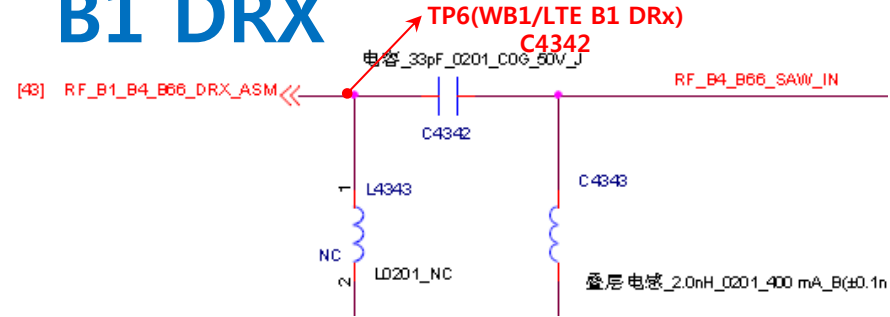
# B8 DRX



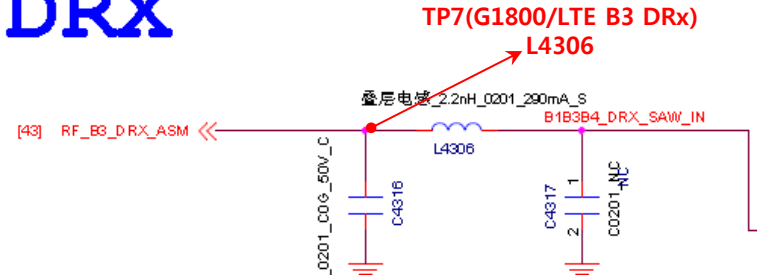
# B20 DRX



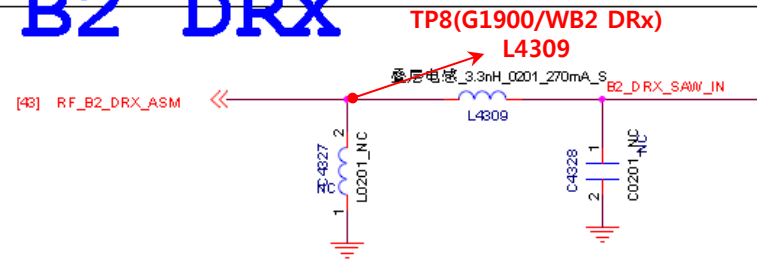
# B1 DRX



# B3 DRX



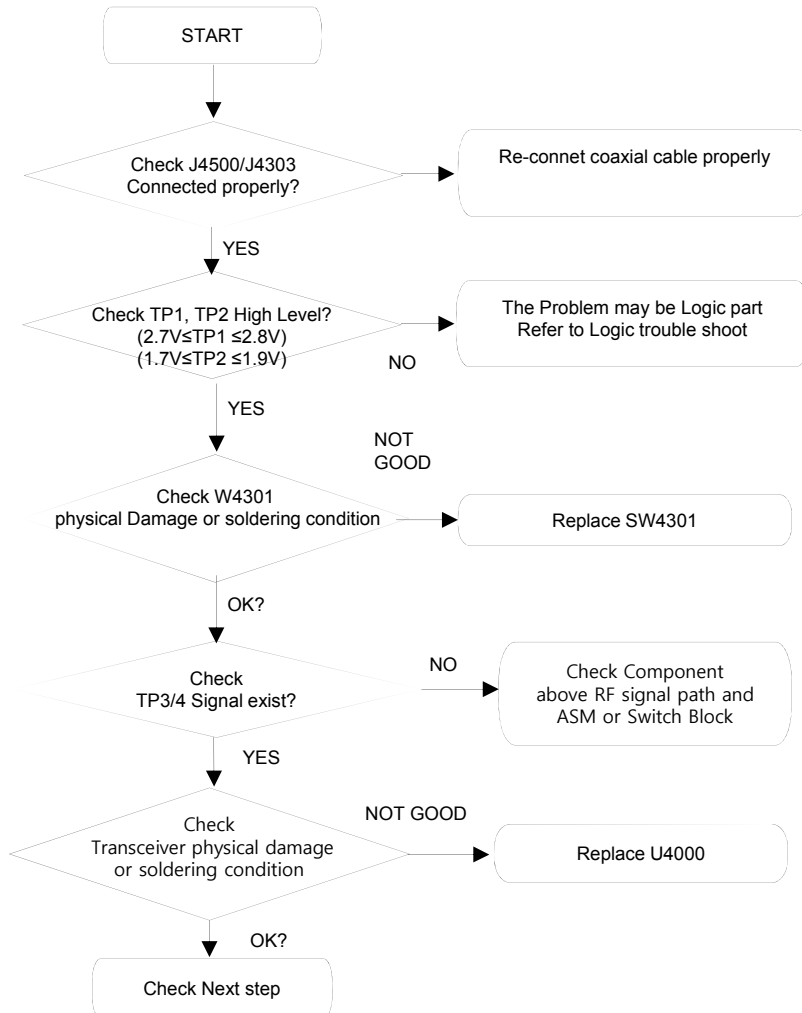
# B2 DRX



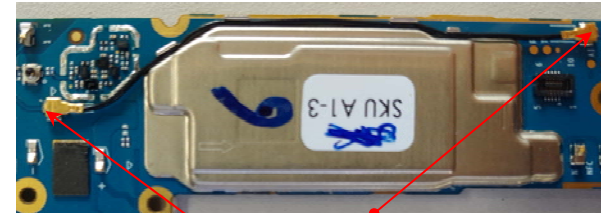
## 3.5.4.2 GSM,WCDMA, LTE PART - DRX

### Checking DRX RF signal path (LTE B7/B38)

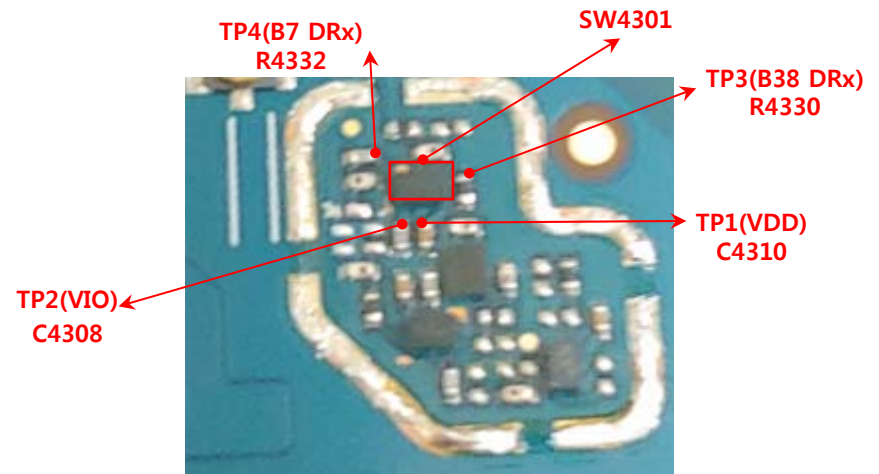
#### Checking Flow



Image



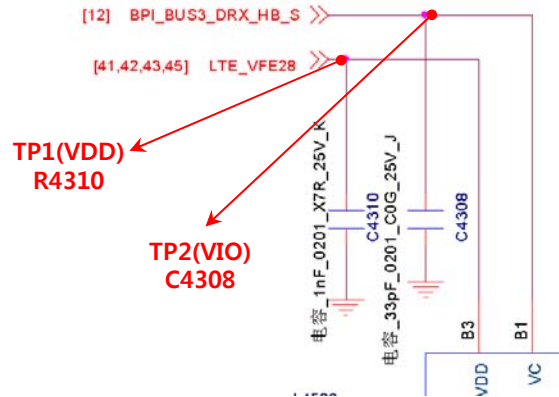
J4500 J4303  
(Coaxial Cable Connector)



3.5.4.2 GSM,WCDMA, LTE PART - DRX

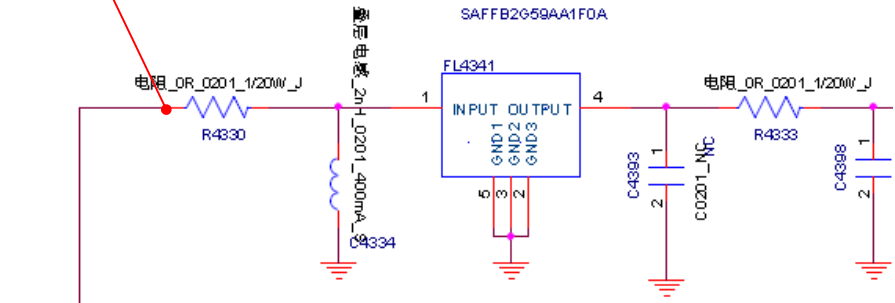
Checking DRX RF signal path (LTE B7/B38)

Circuit Diagram



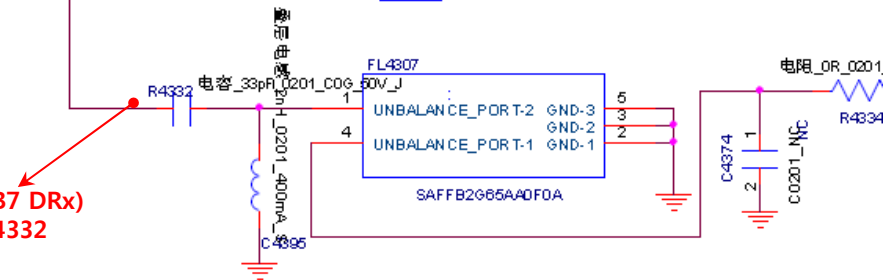
# B41\_B38\_DRX

TP3(B38 DRx)  
R4330



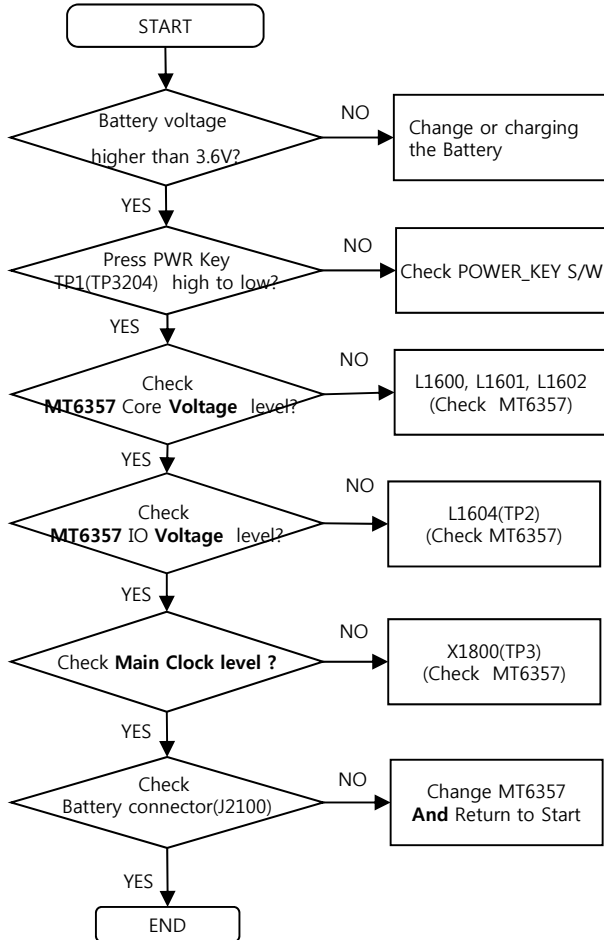
# B7\_DRX

TP4(B7 DRx)  
R4332

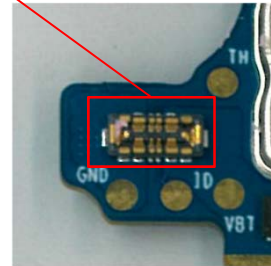


## Checking Power signal (Battery connector, Power Key, PMIC Regulator)

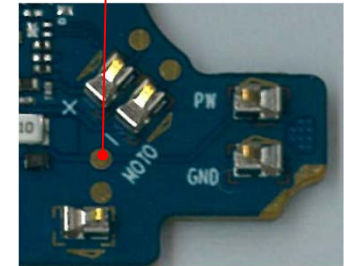
### Checking Flow



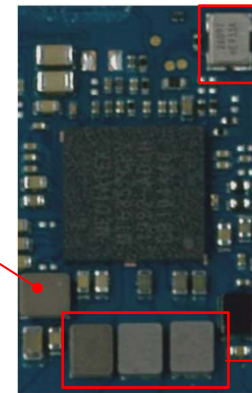
BATTERY CONNECTOR(J2100)



TP1 (TP3204)



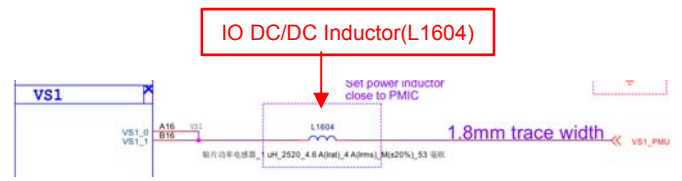
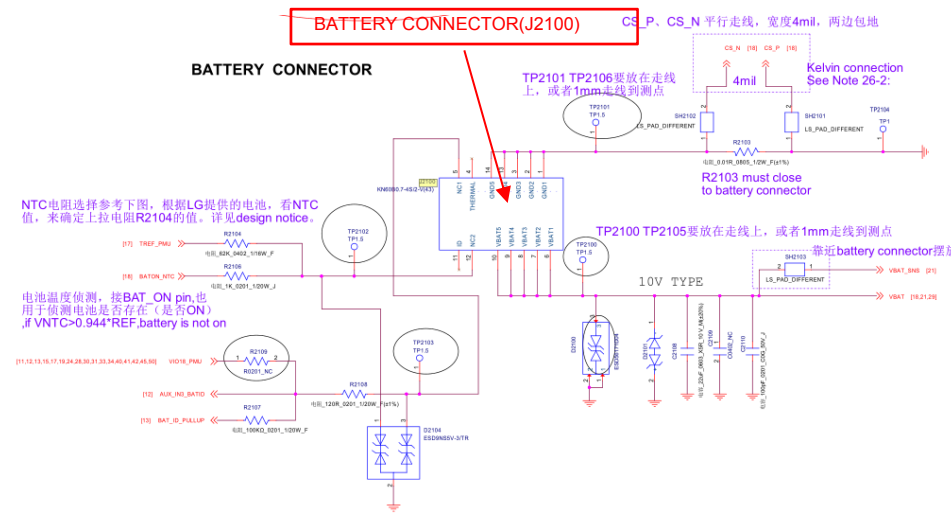
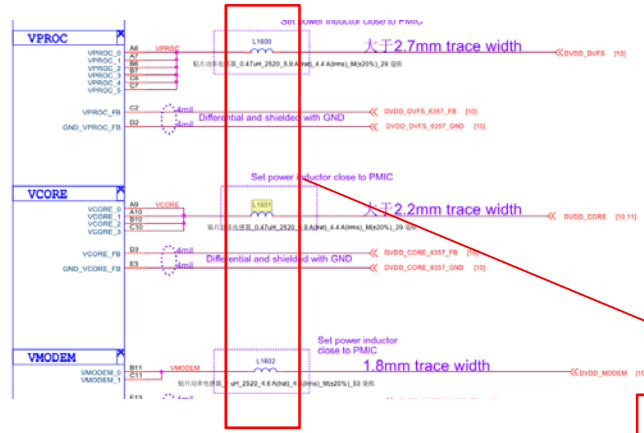
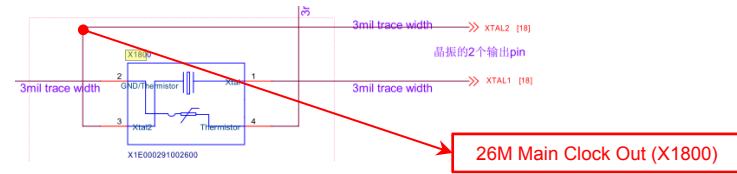
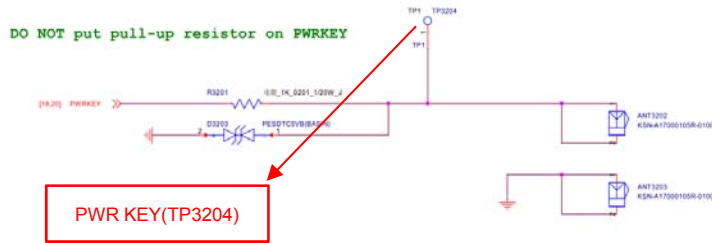
TP2(L1604)



TP3 (X1800)

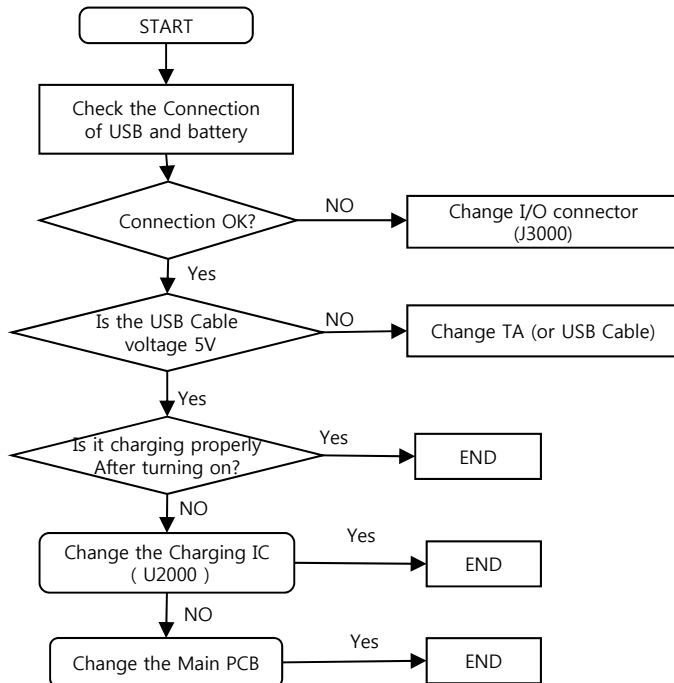
Core DC/DC Inductor(L1600,L1601, L1602)

## Checking Power signal (Battery connector, Power Key, PMIC Regulator)

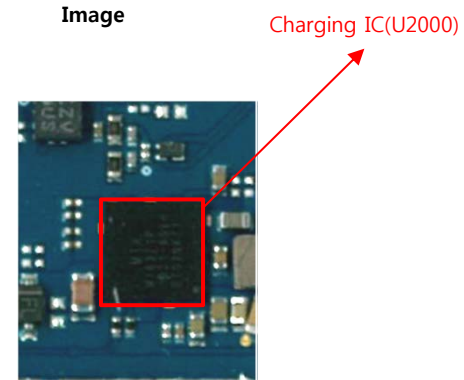


The I/O connector and USB cable voltage(5.0V) is used as the reference one of PMIC for charging.

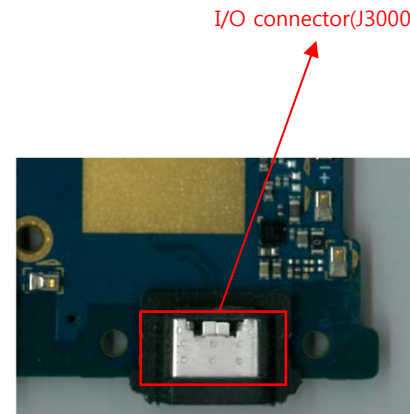
## Checking Flow



Image



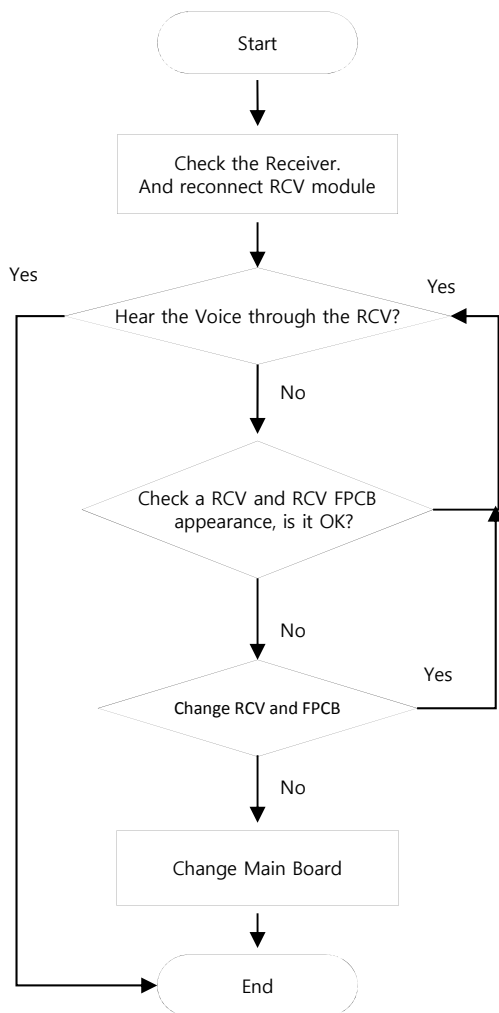
I/O connector(J3000)





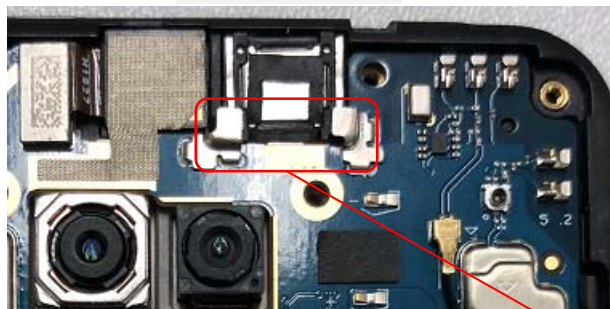
The receiver control signal is generated by MT6357(U1600), the chipset and the receiver should be checked.

### Checking Flow



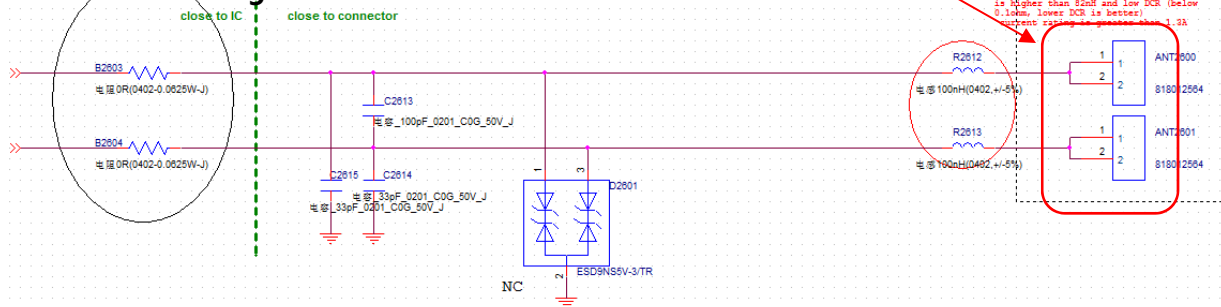
### Placement

Bottom Receiver part



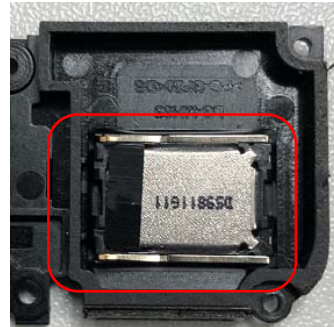
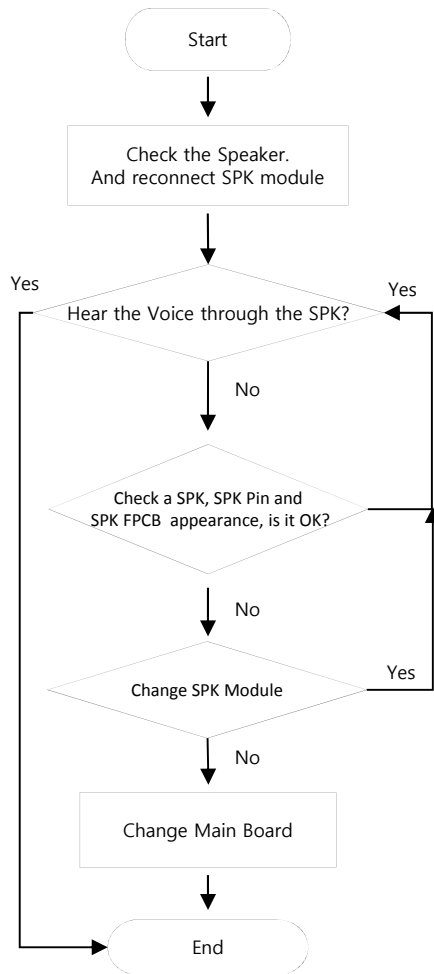
Contact pad (ANT2600, ANT2601)

### Circuit Diagram

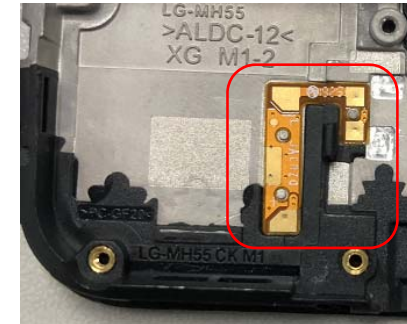


The speaker control signal is generated by MT6357(U1600) and AW87318(U2701), the chipset and the speaker should be checked.

## Checking Flow



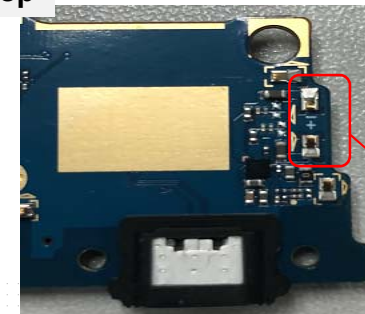
SPK unit in Rear



SPK FPCB in Front

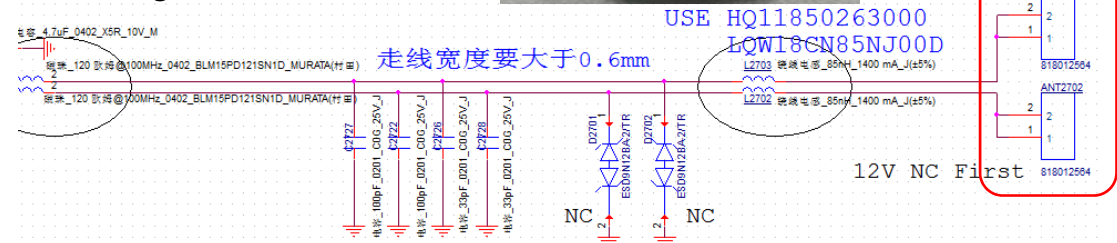
## Placement

Top



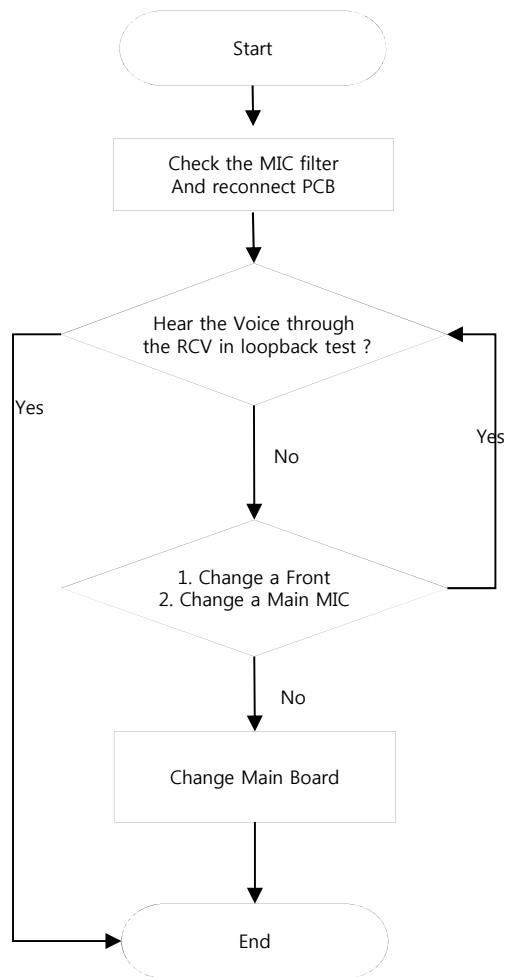
Contact pin (ANT2701, ANT2702)

## Circuit Diagram



It's operating voice call(except speakerphone), voice recording, camcorder recording.

### Checking Flow

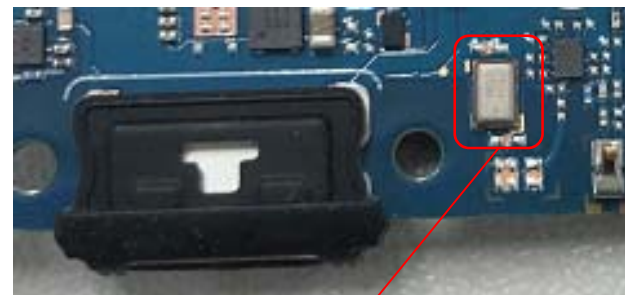


Main Mic Seal foam

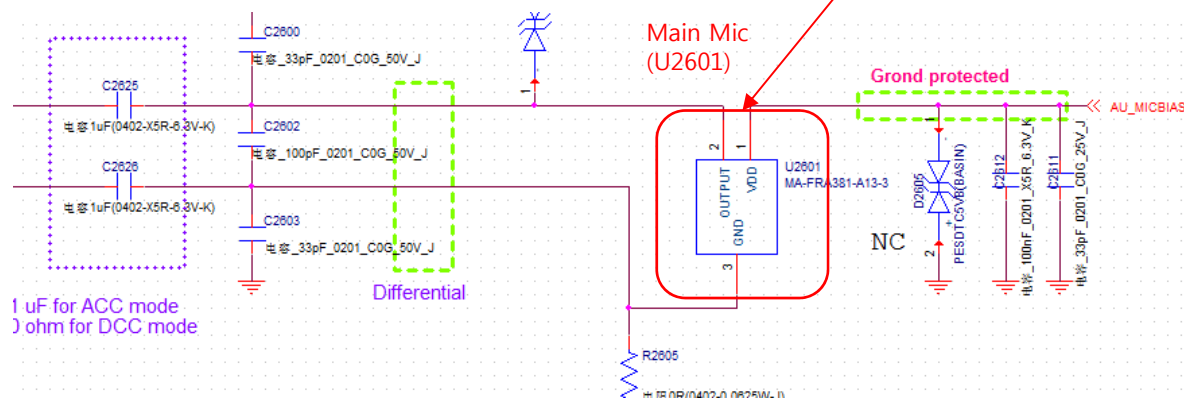


Front – bottom Side

Placement – TOP Side

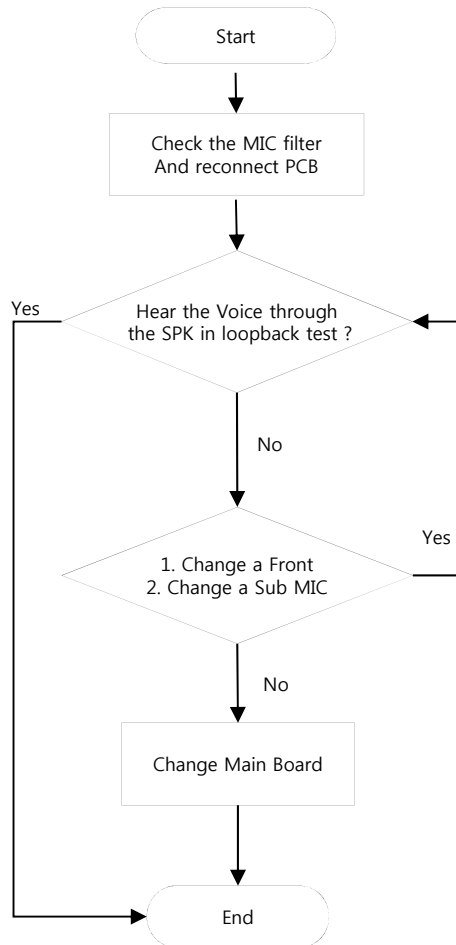


### Circuit Diagram

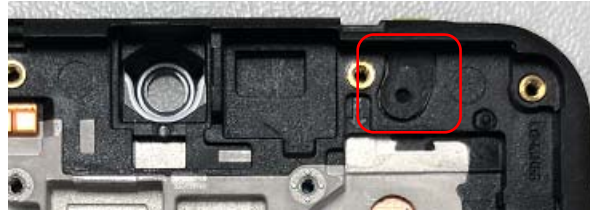


It's operating Speakerphone call.

### Checking Flow



Sub Mic Seal foam

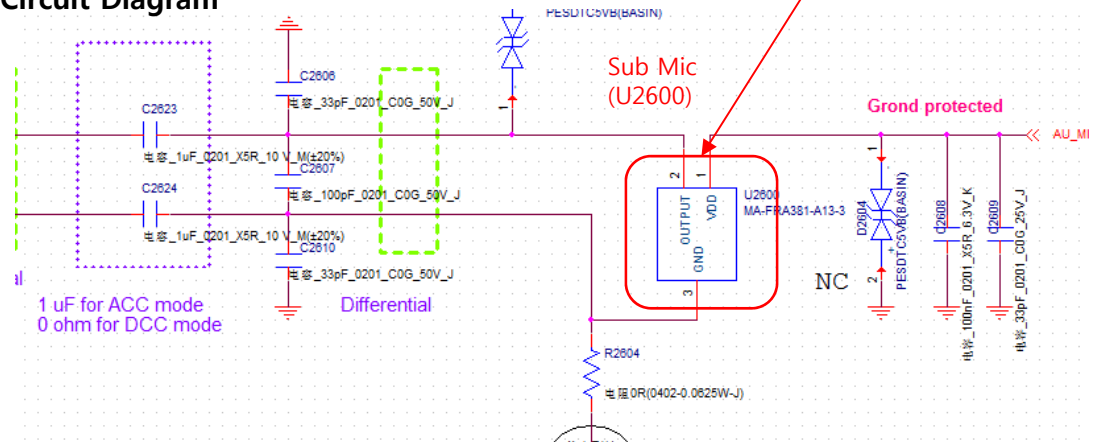


Placement – TOP Side



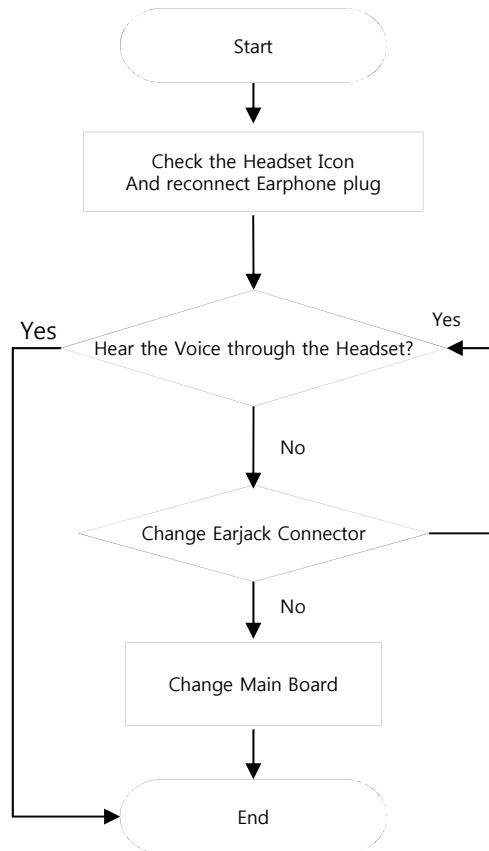
Front – TOP Side

### Circuit Diagram



Disable detecting headset insert or No sound from Earphone, Check the Connector and Main PCB.

Checking Flow

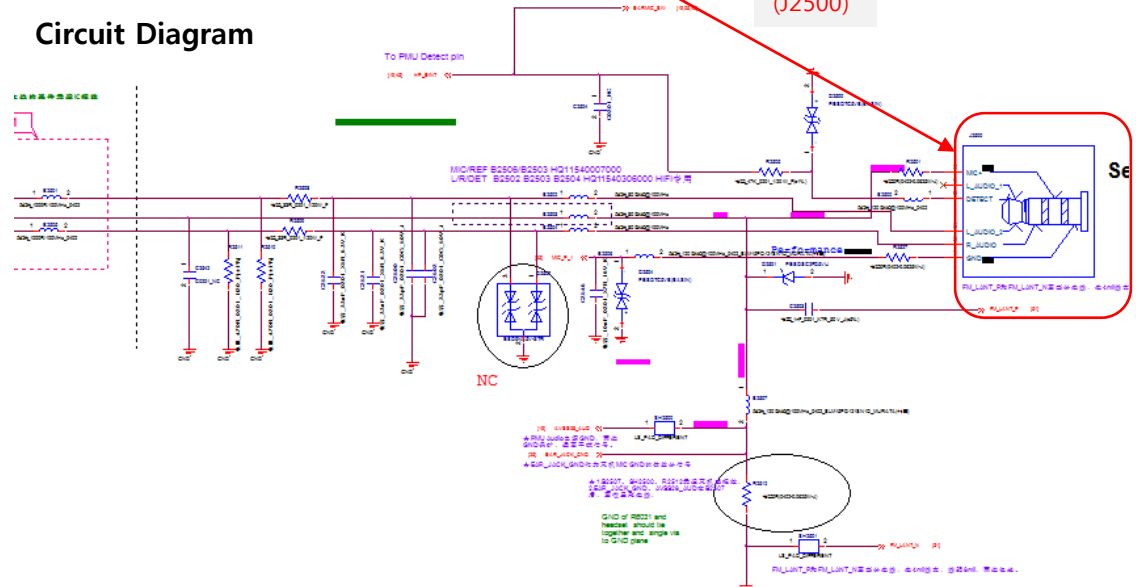


Placement  
Top Side



Earjack  
(J2500)

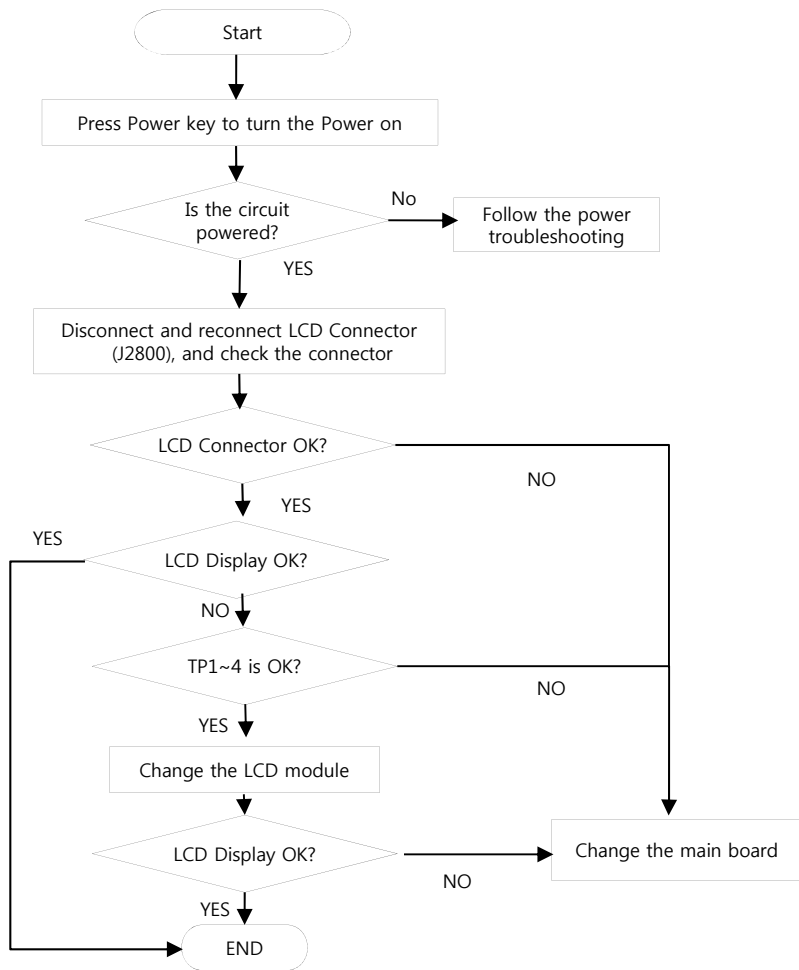
Circuit Diagram



LCD Parts on the main board

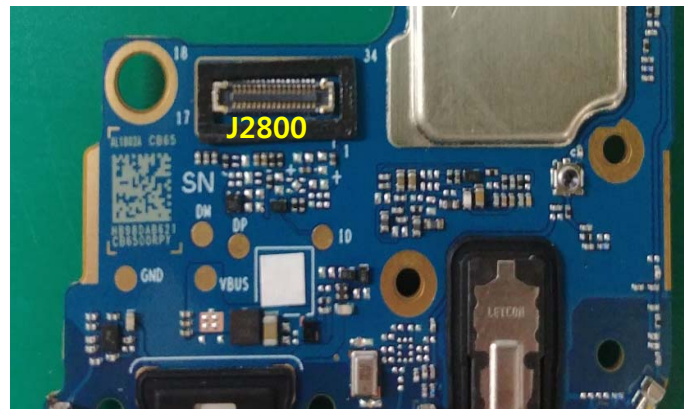
Main LCD control signals are generated by MT6762

Checking Flow

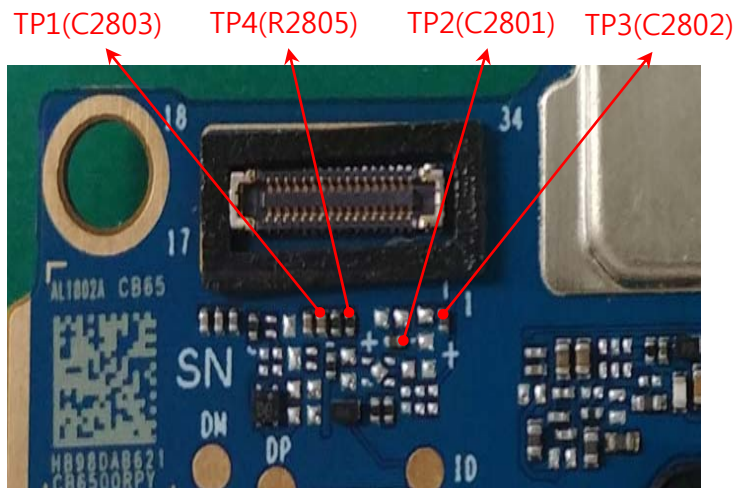


PCB Image

BOT

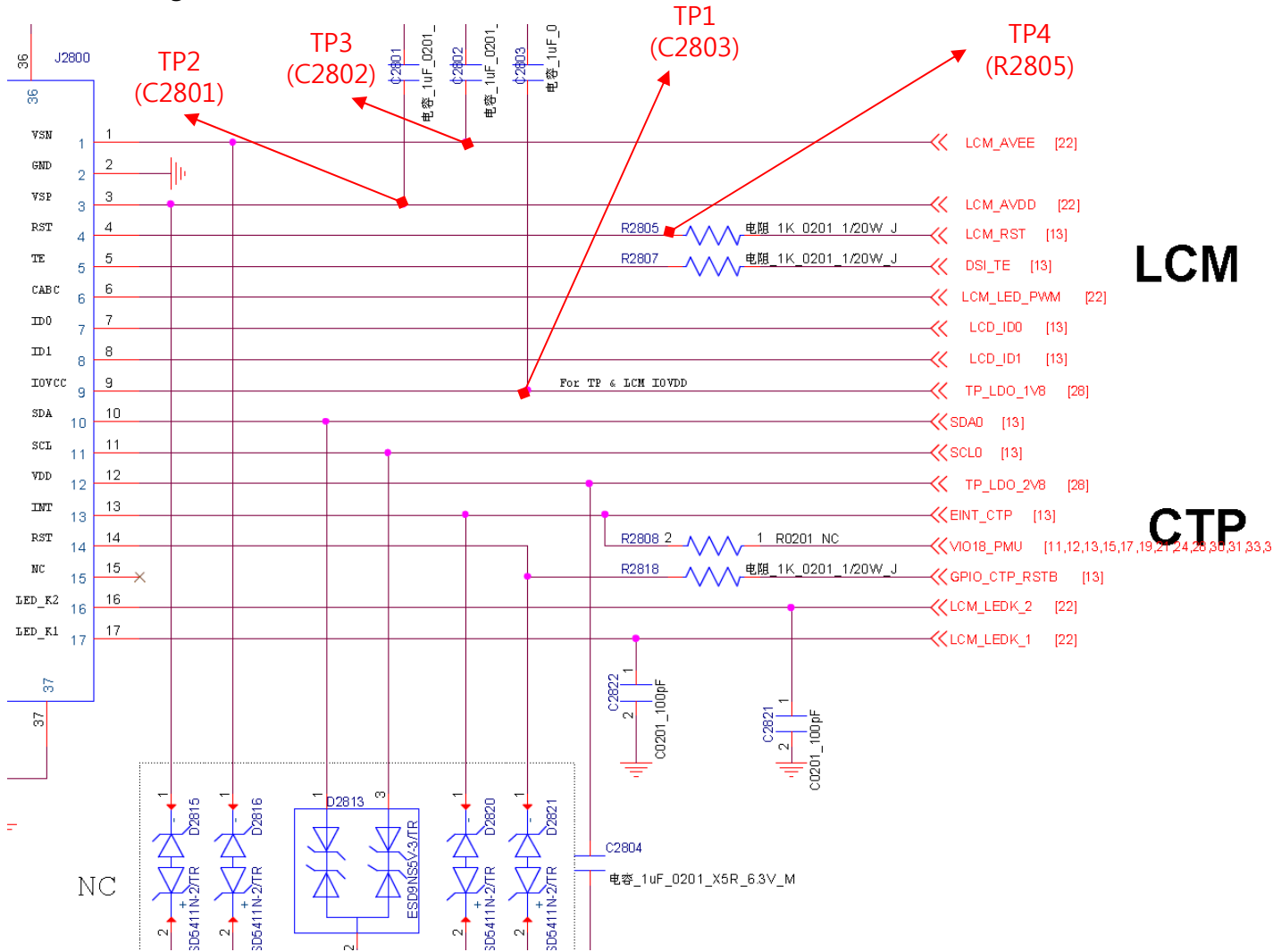


BOT



Main LCD control signals are generated by MT6762

Circuit Diagram



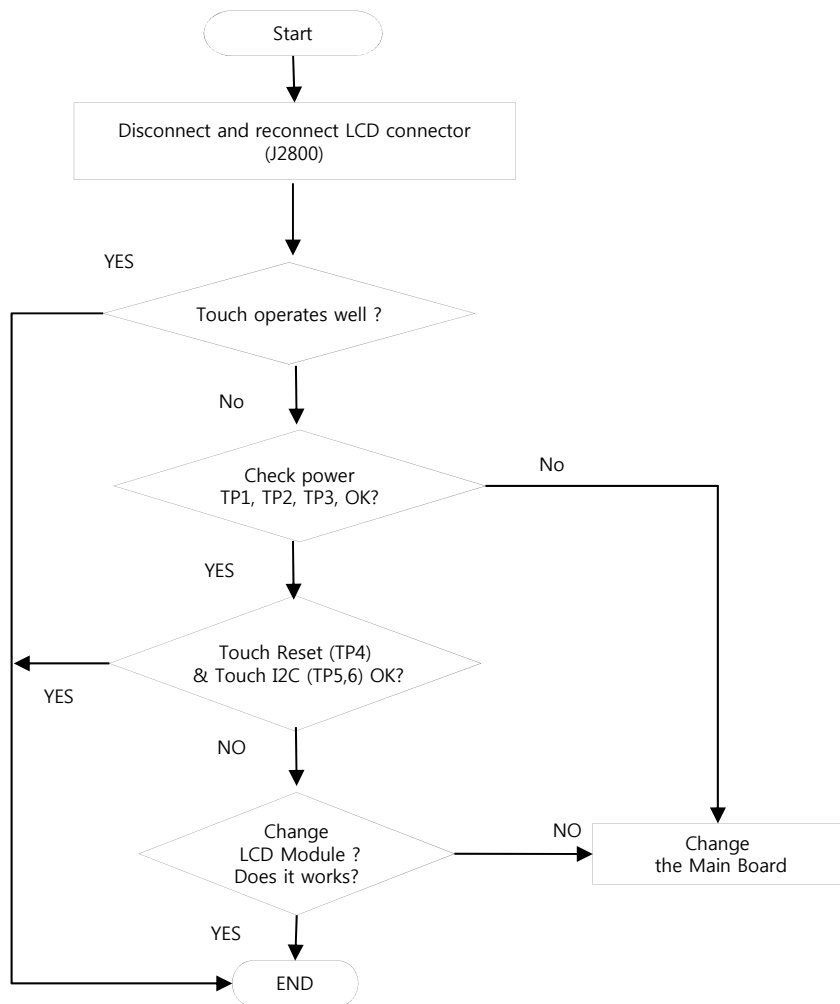
LCM

CTP

Touch Parts on the main board

Touch control signals are generated by MT6762

Checking Flow

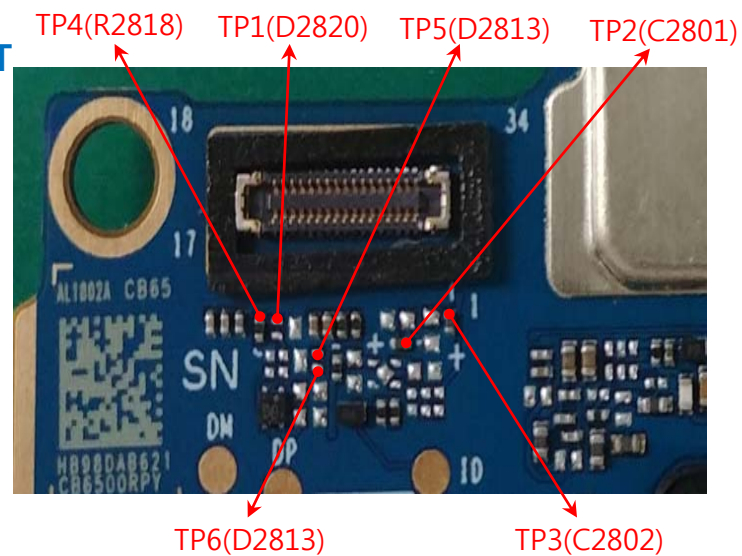


PCB Image

BOT



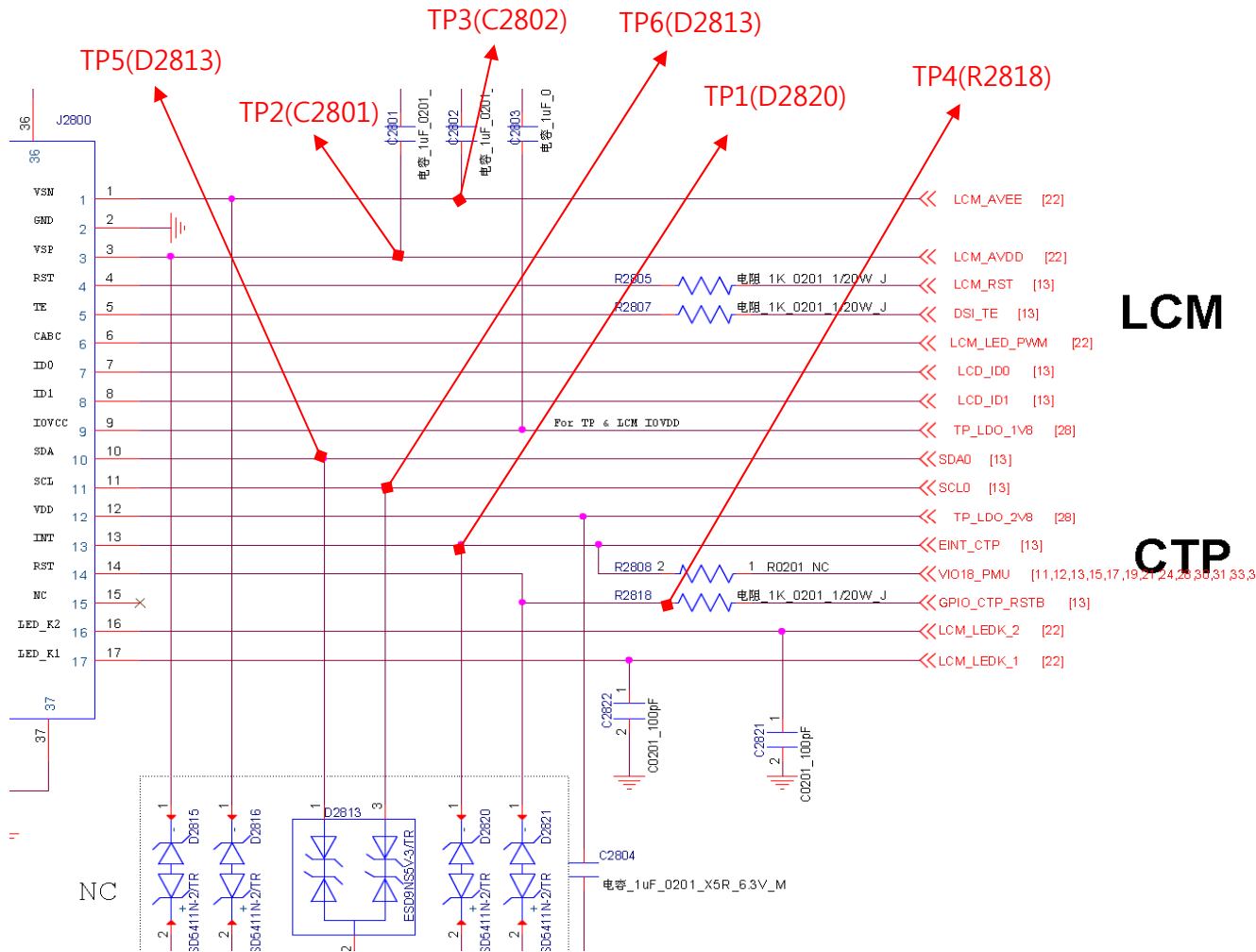
BOT





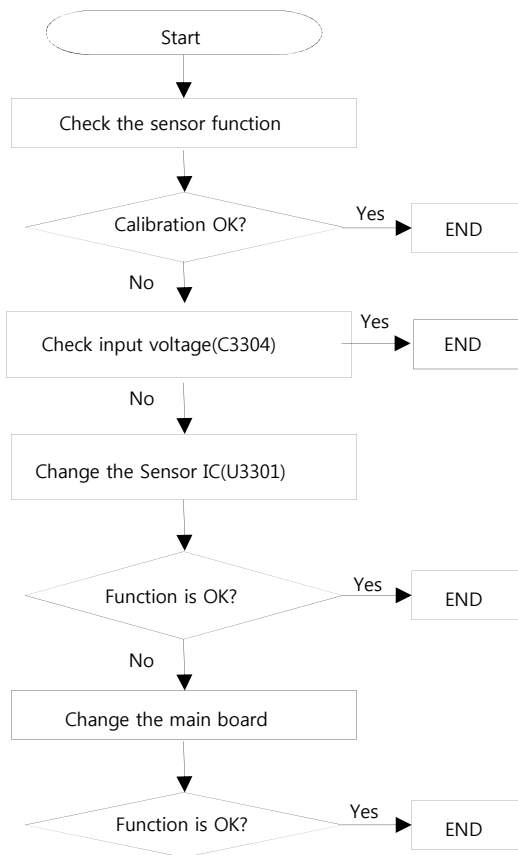
Touch Parts on the main board  
 Touch control signals are generated by MT6762

Circuit Diagram

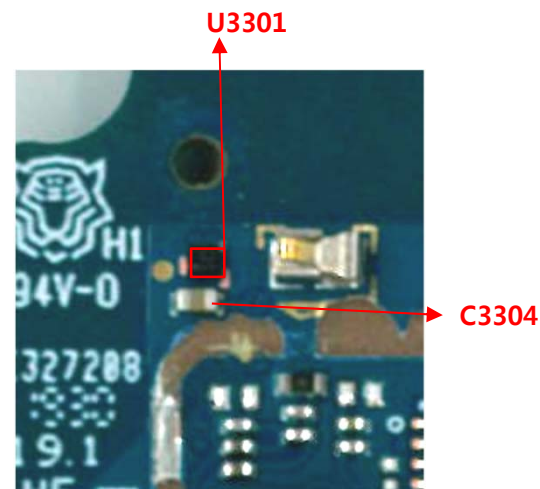


The compass sensors are calibrated by using SW algorithm.

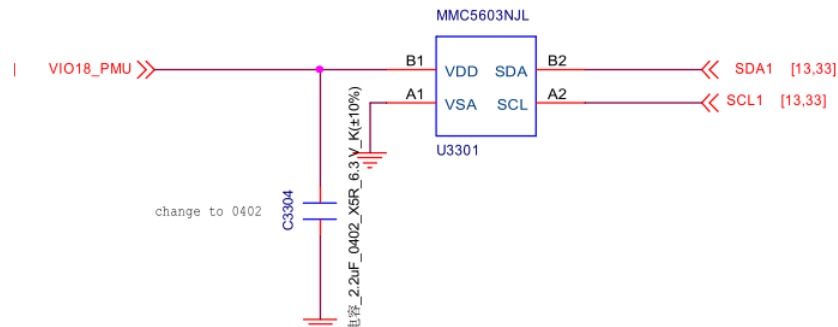
Checking Flow



Image

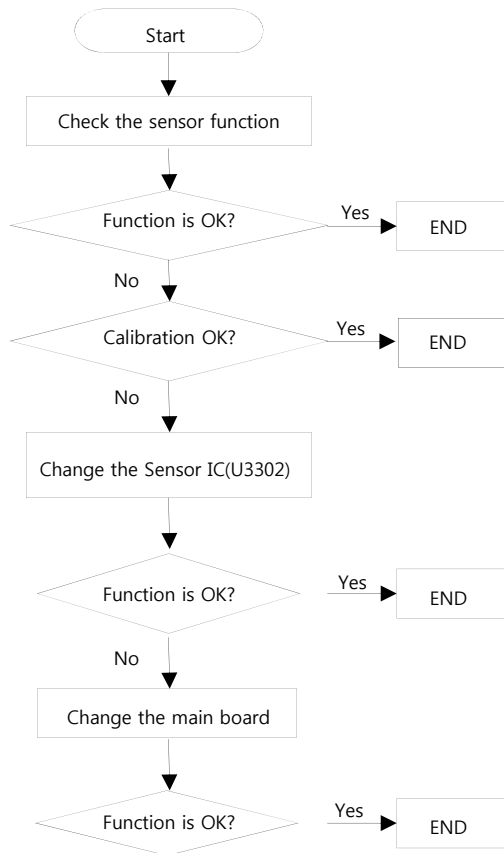


Circuit Diagram

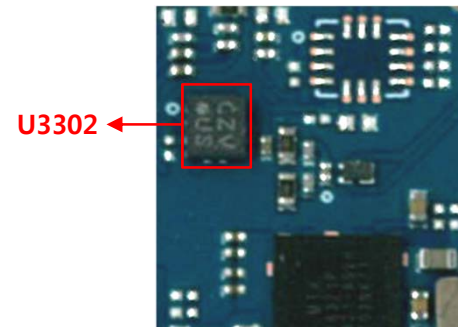


The accelerometer sensors are calibrated by using SW algorithm.

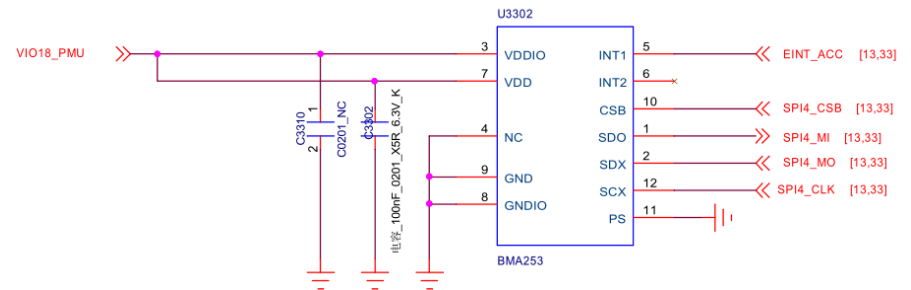
Checking Flow



Image

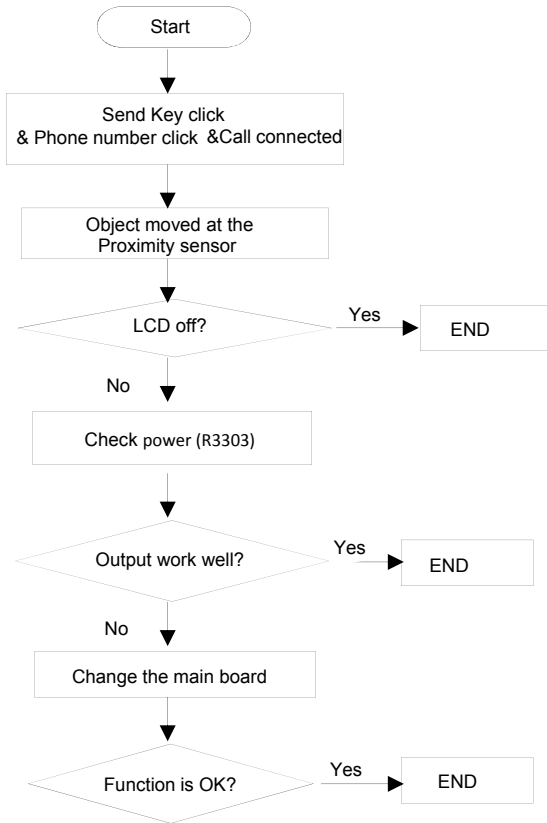


Circuit Diagram

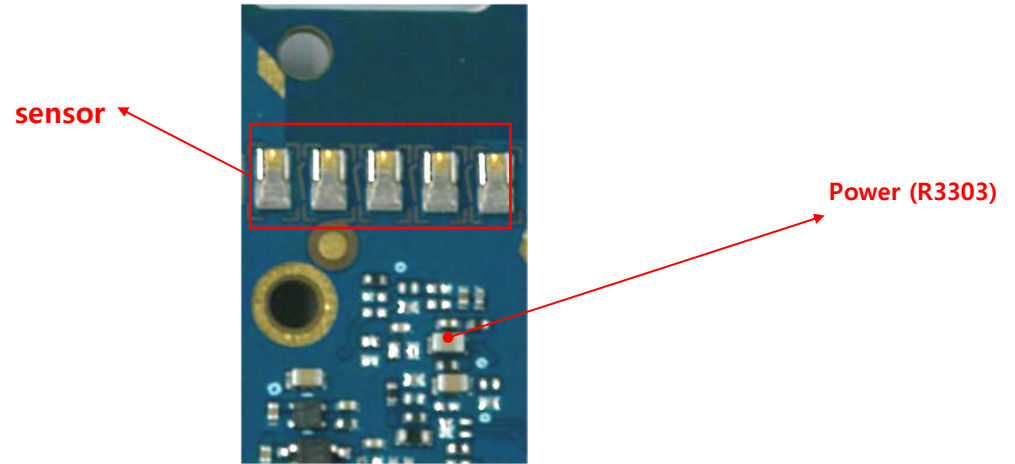


Proximity Sensor is worked as below: Send Key click → Phone number click → Call connected  
 → Object moved at the sensor → Control the screen's on/off operation automatically

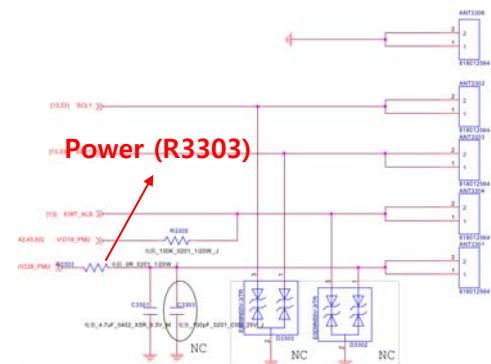
Checking Flow



Image

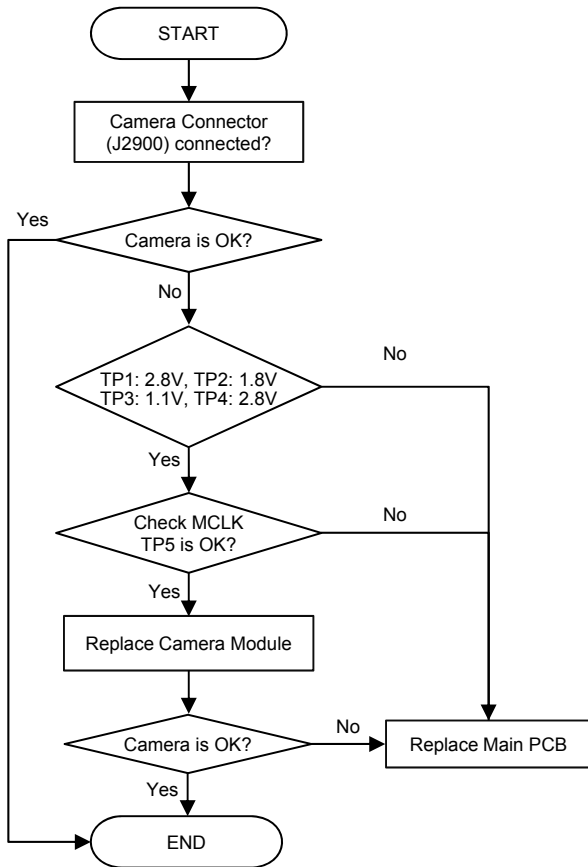


Circuit Diagram

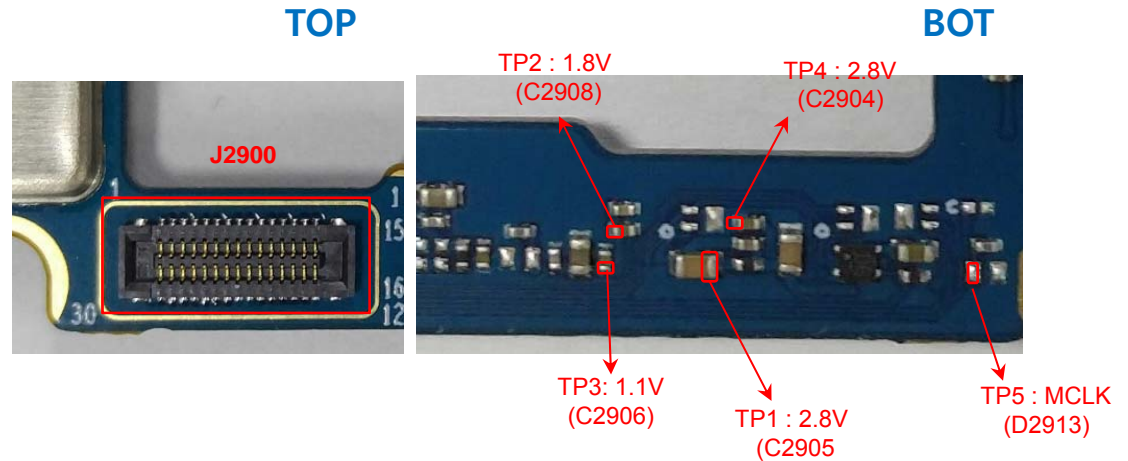


When 13M Rear Camera doesn't work, check J2900 and TP Voltage.

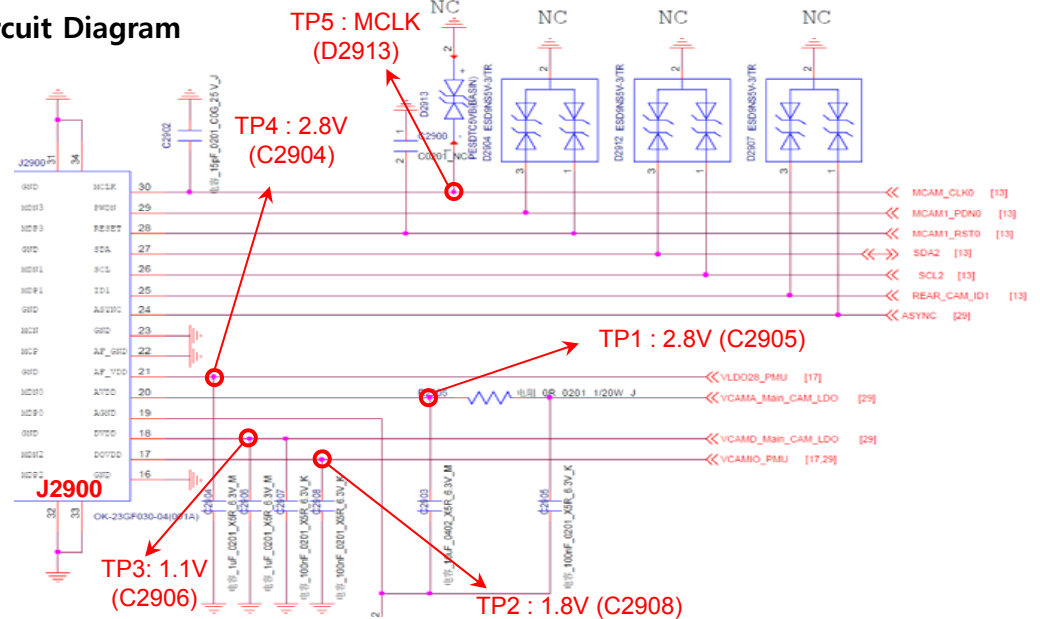
### Checking Flow



### Image

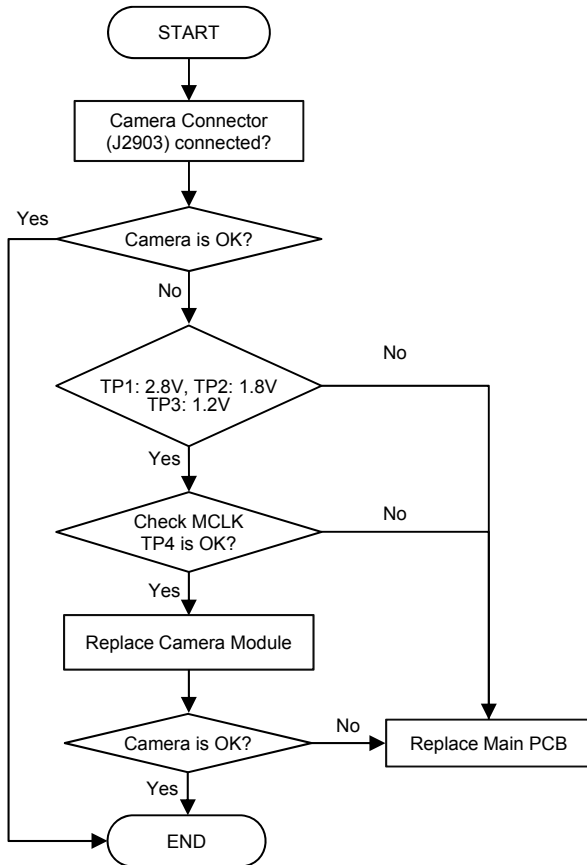


### Circuit Diagram

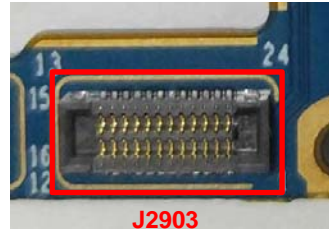


When 5M Wide Rear Camera doesn't work, check J2903 and TP Voltage.

### Checking Flow

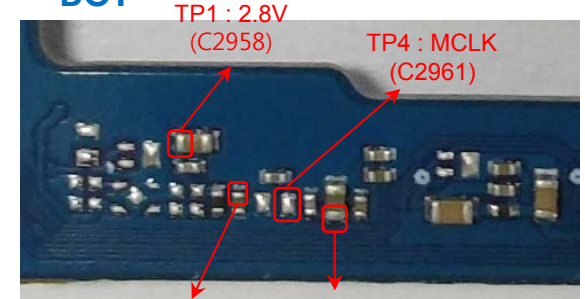


TOP



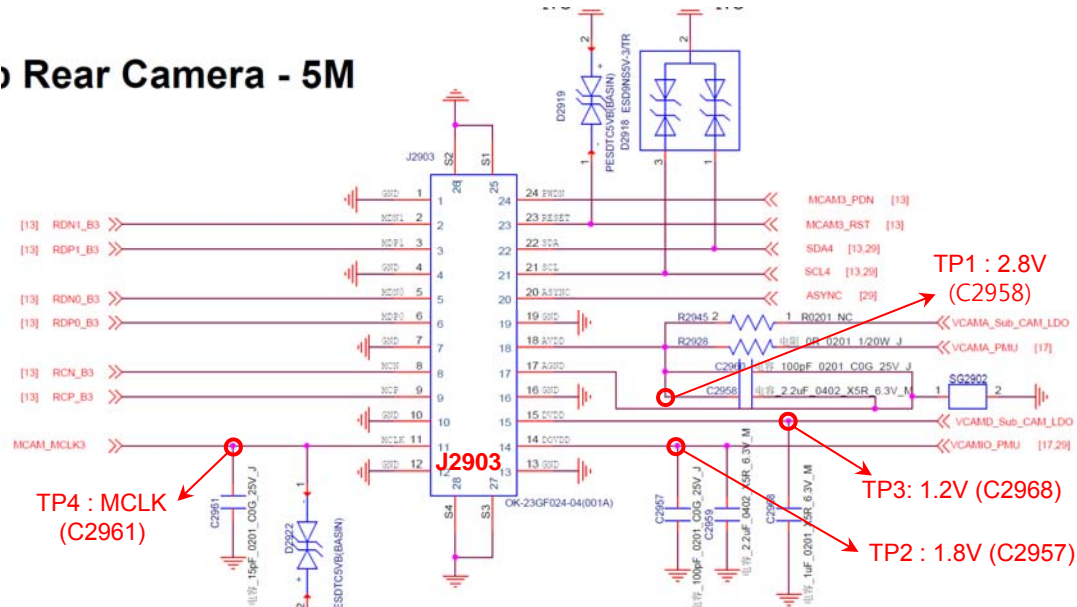
Image

BOT



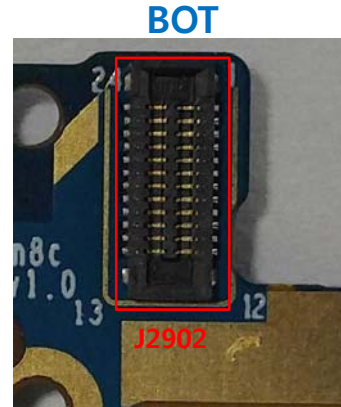
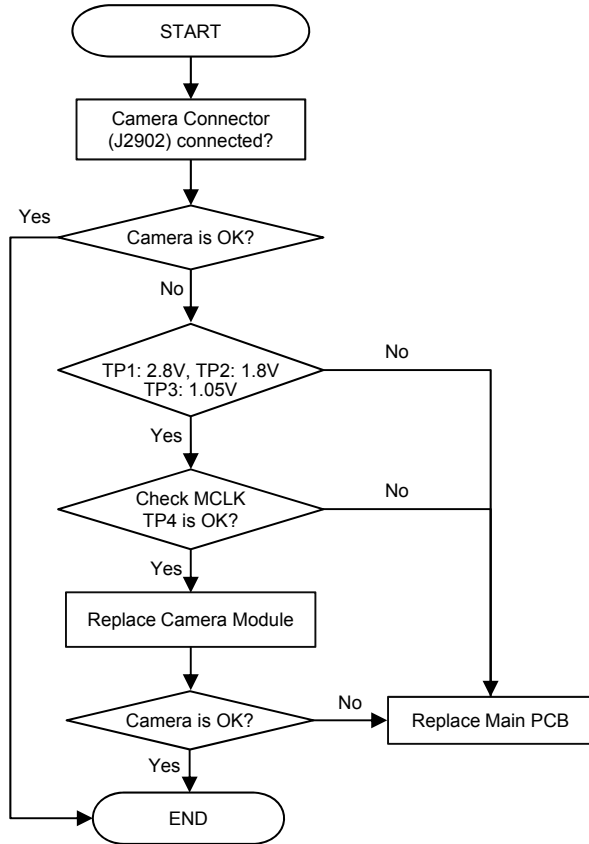
### Circuit Diagram

### Rear Camera - 5M

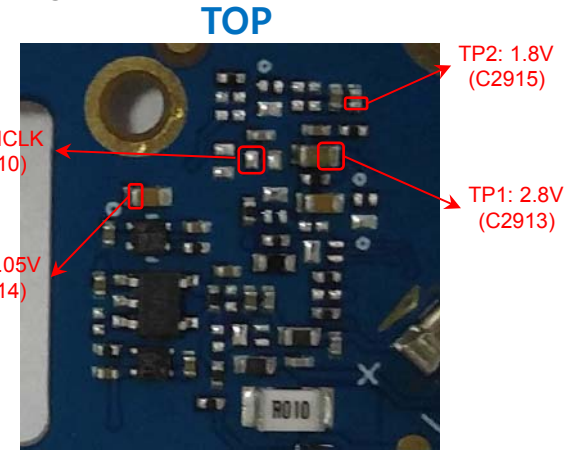


When 13M Front camera is not working, check J2902 and TP Voltage.

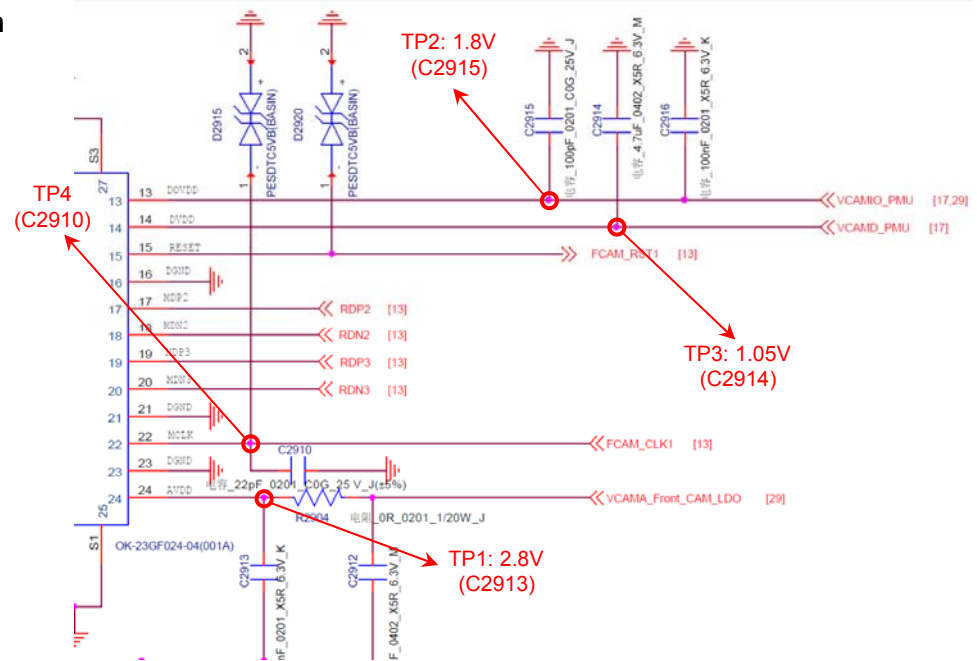
### Checking Flow



Image

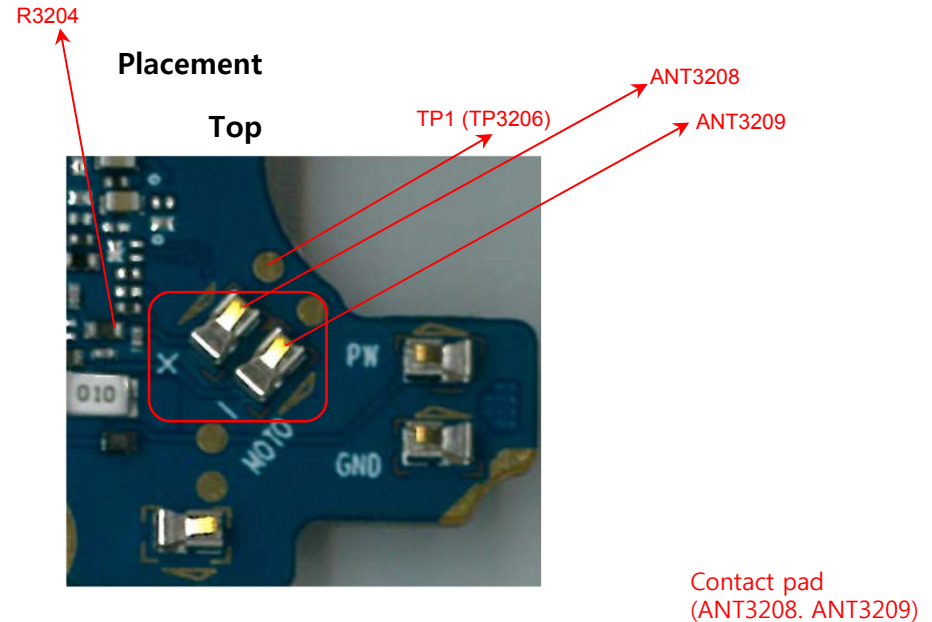
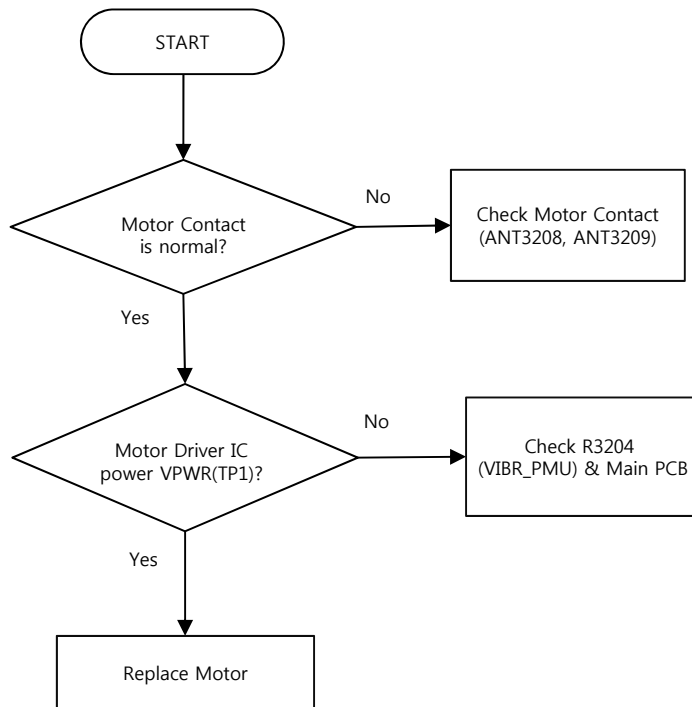


### Circuit Diagram

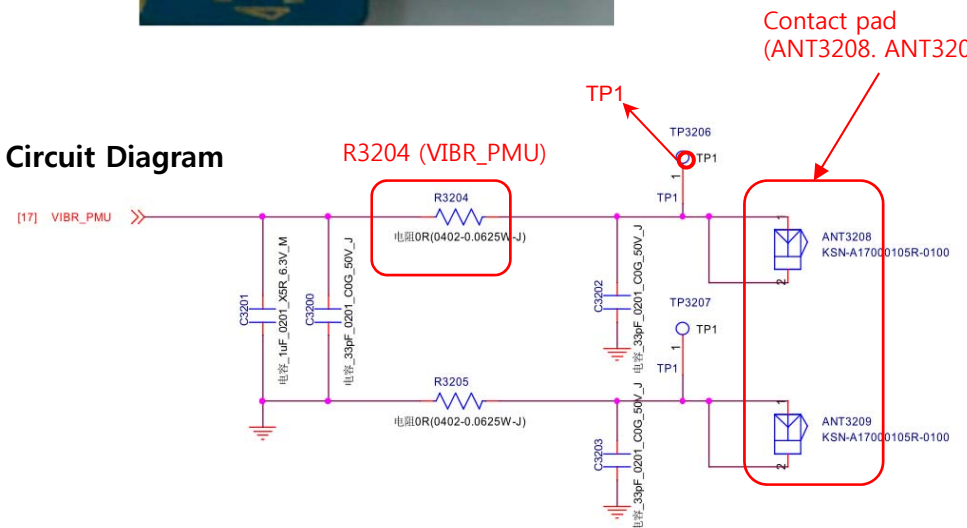


## Motor is not working

### Checking Flow



### Circuit Diagram

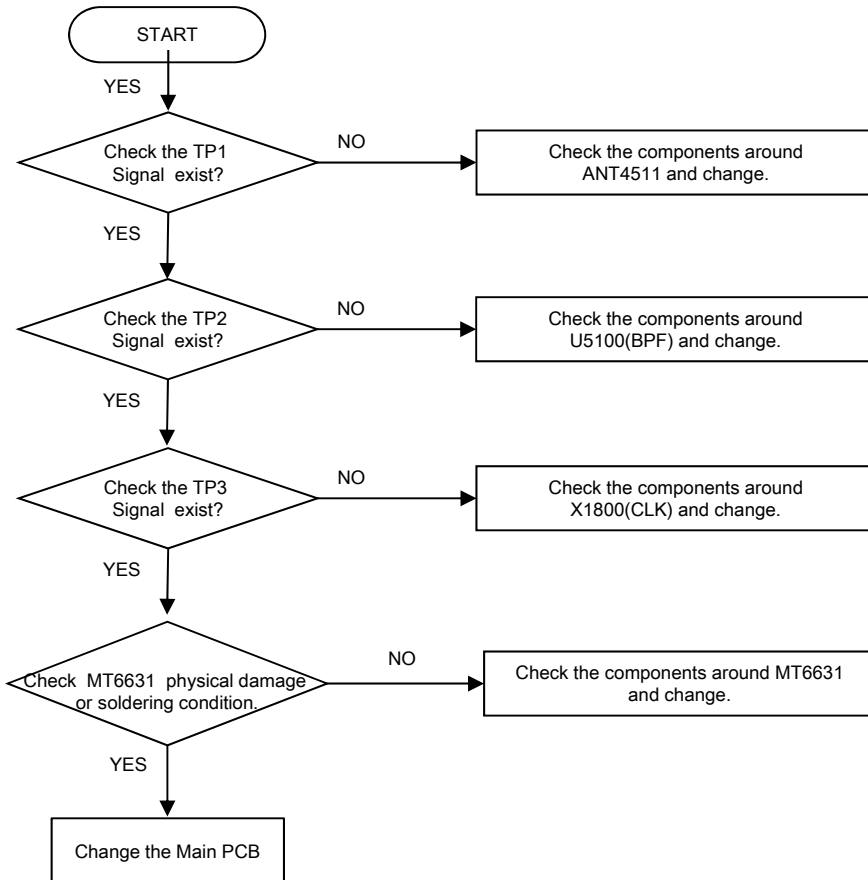




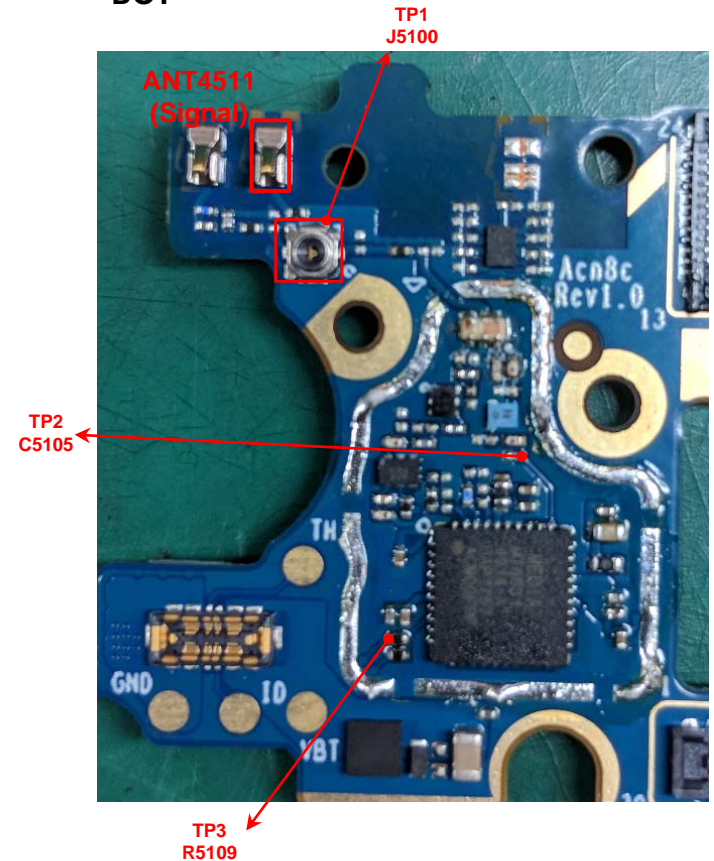
The output frequency(26MHz) of TCXO(X1800) is used as the reference one of MT6631

Image

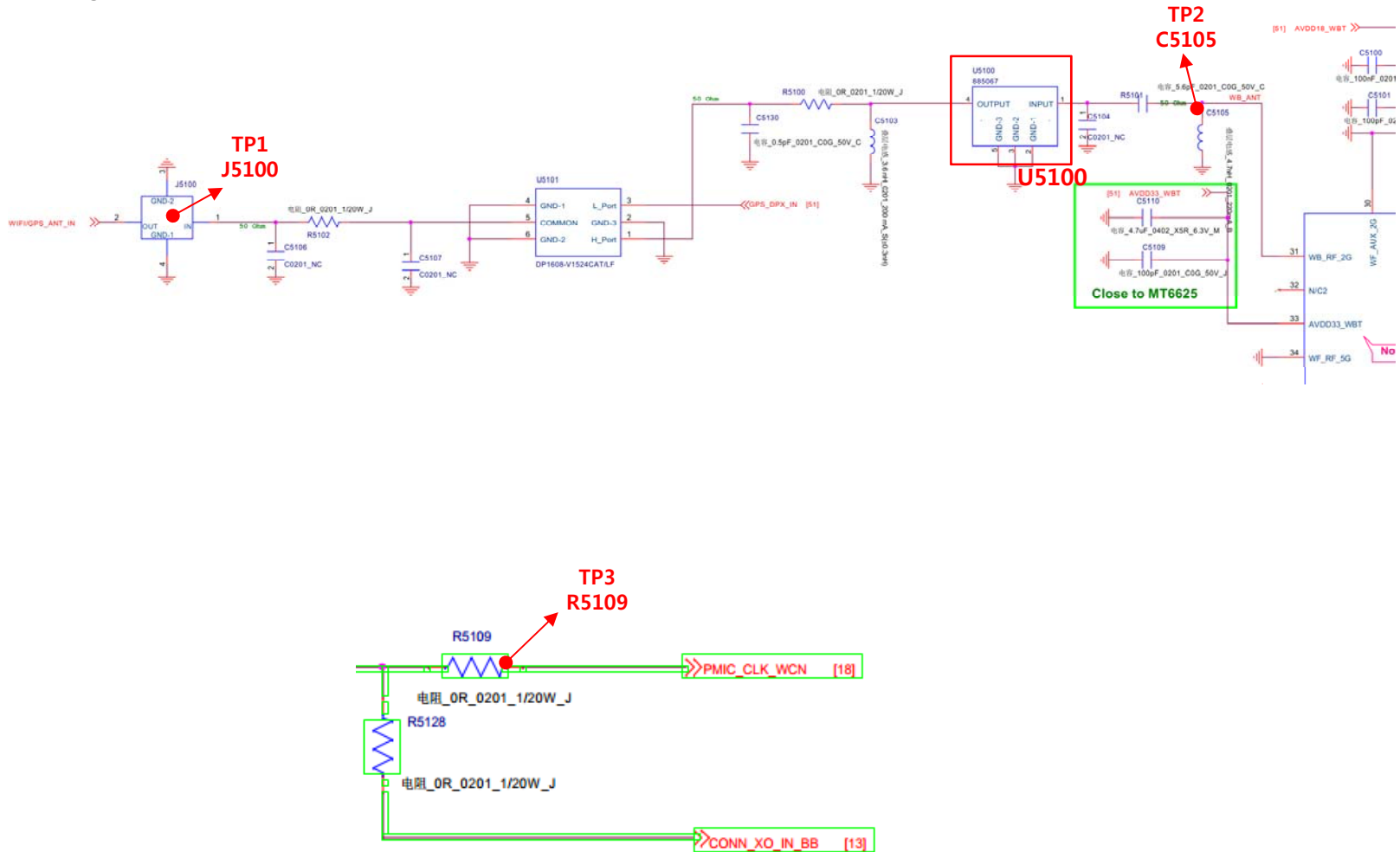
### Checking Flow



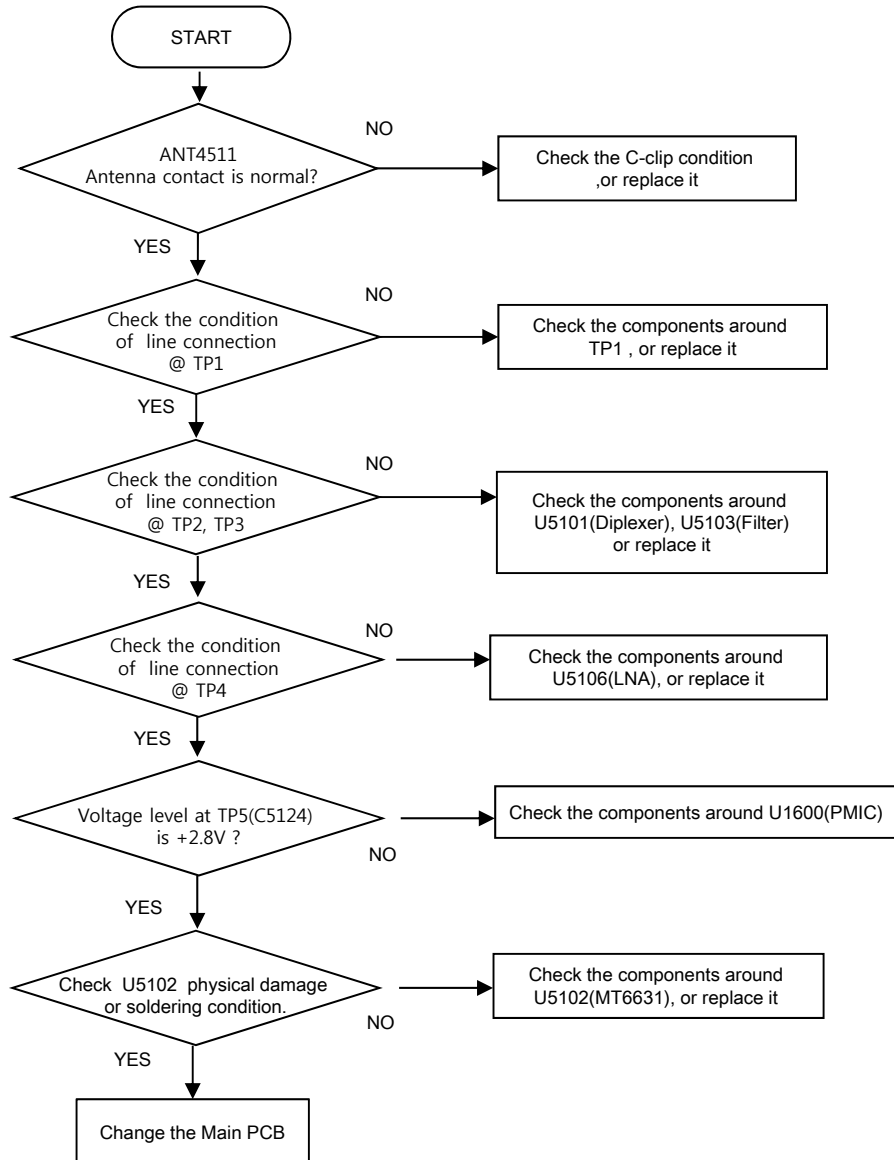
BOT



## Circuit Diagram

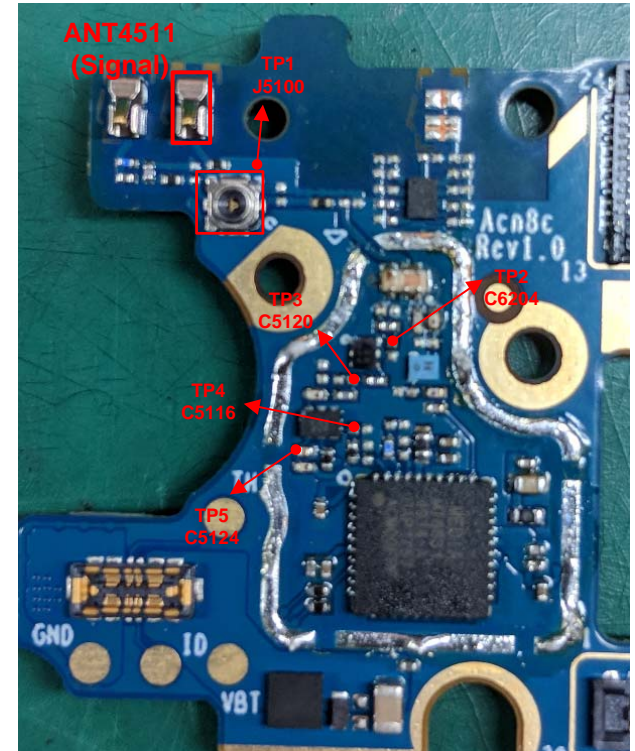


Checking Flow

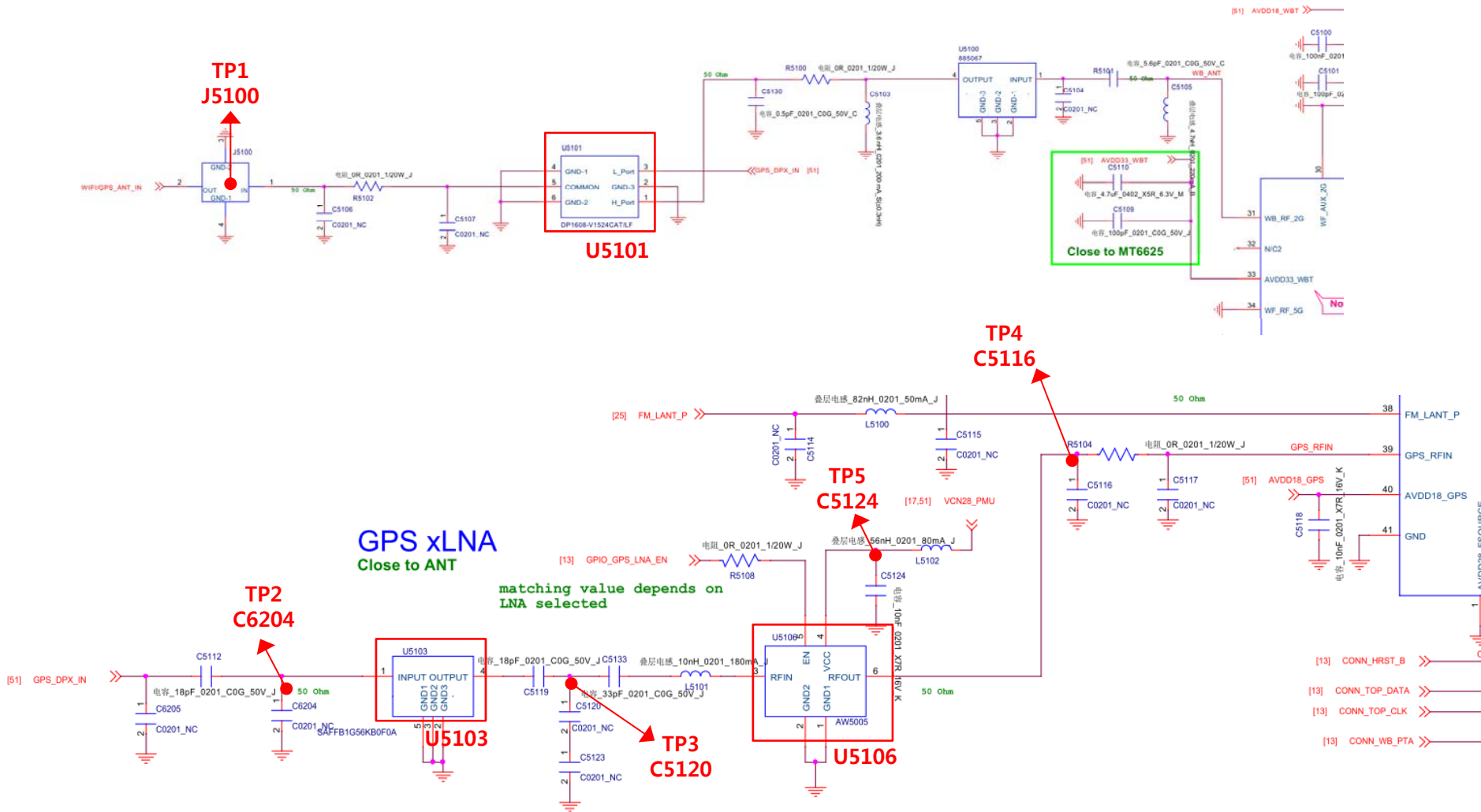


Image

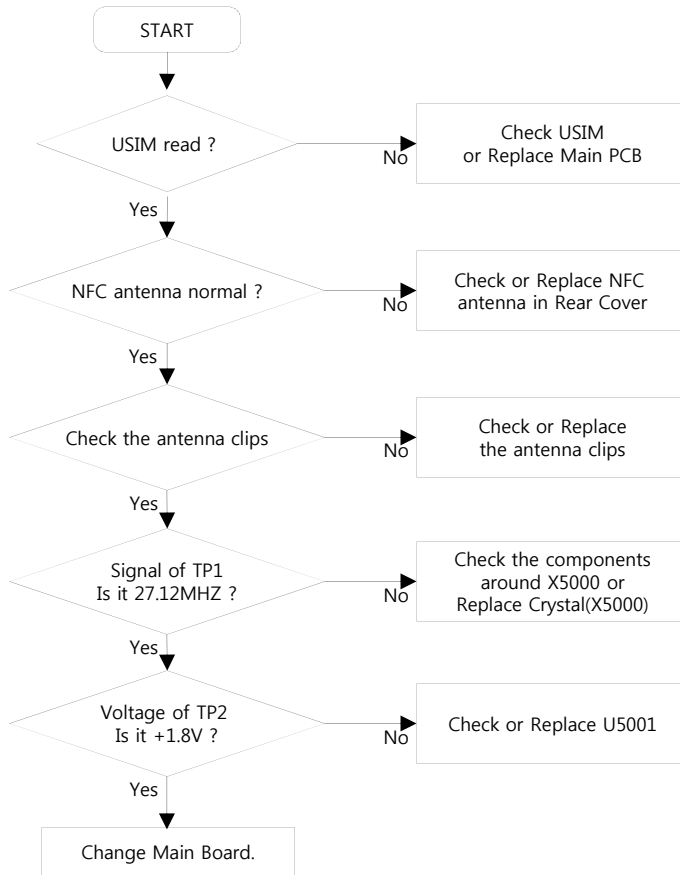
BOT



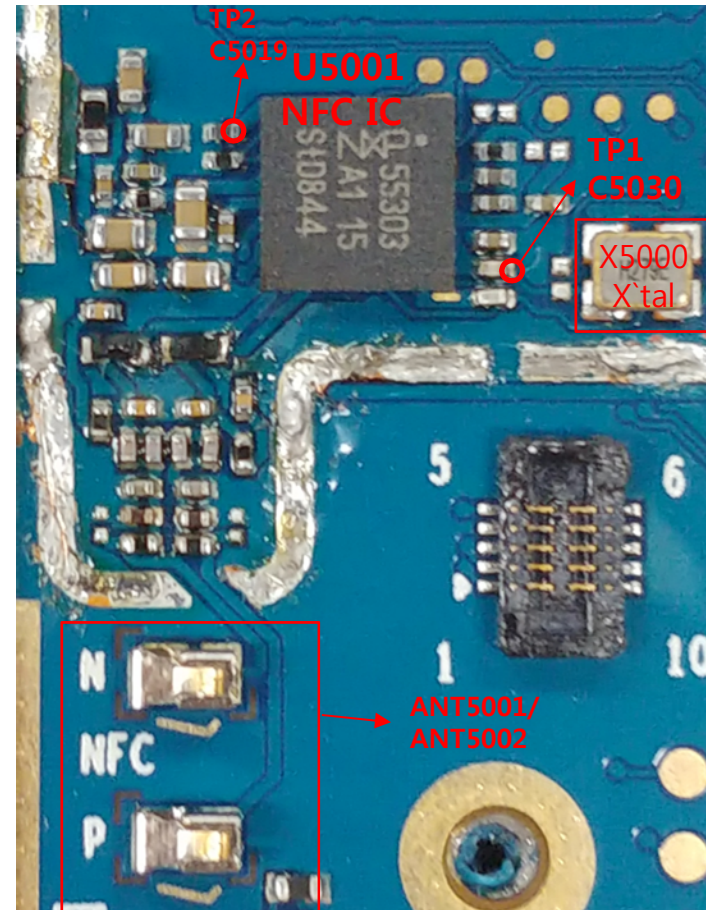
Circuit Diagram



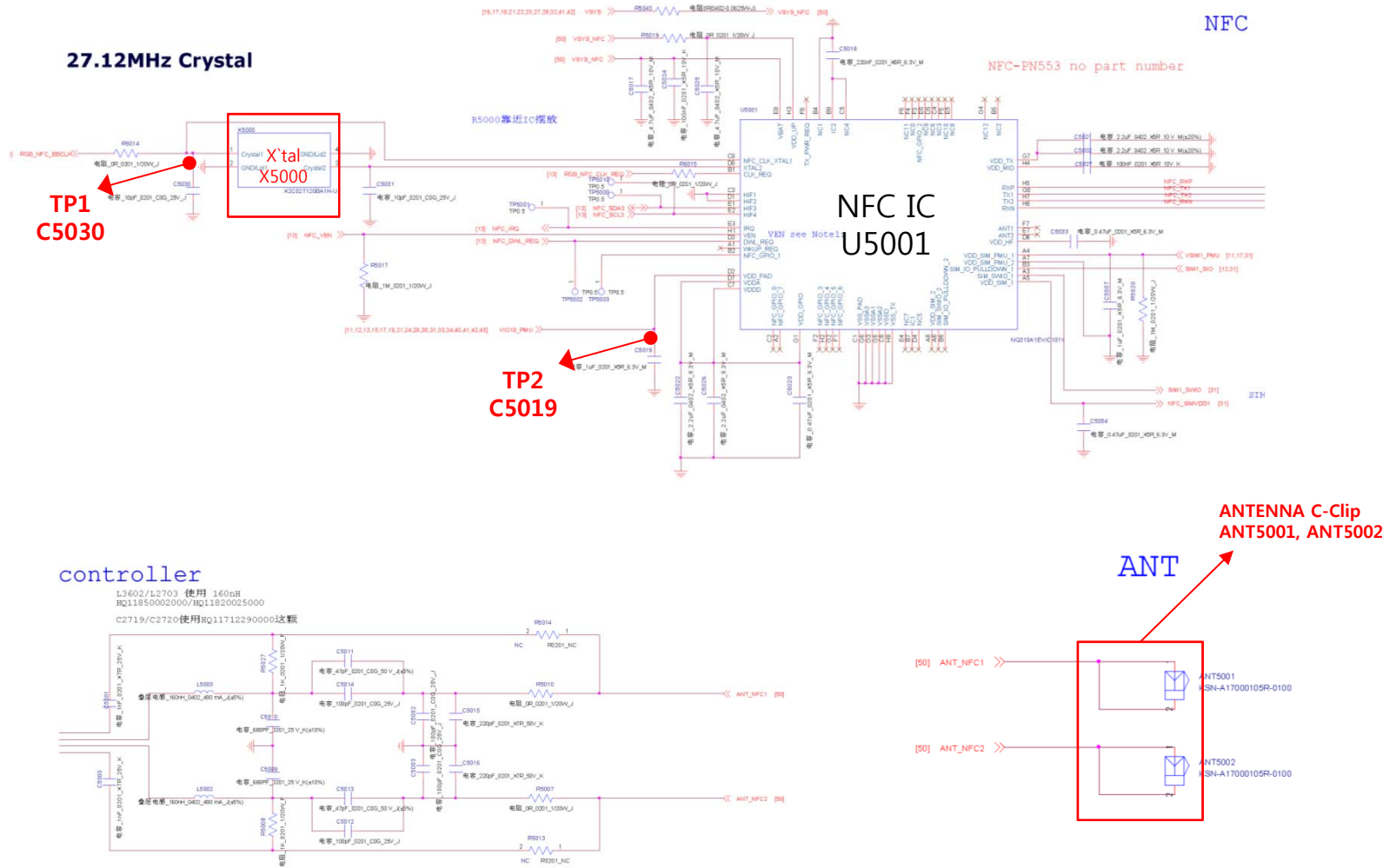
Checking Flow



Image

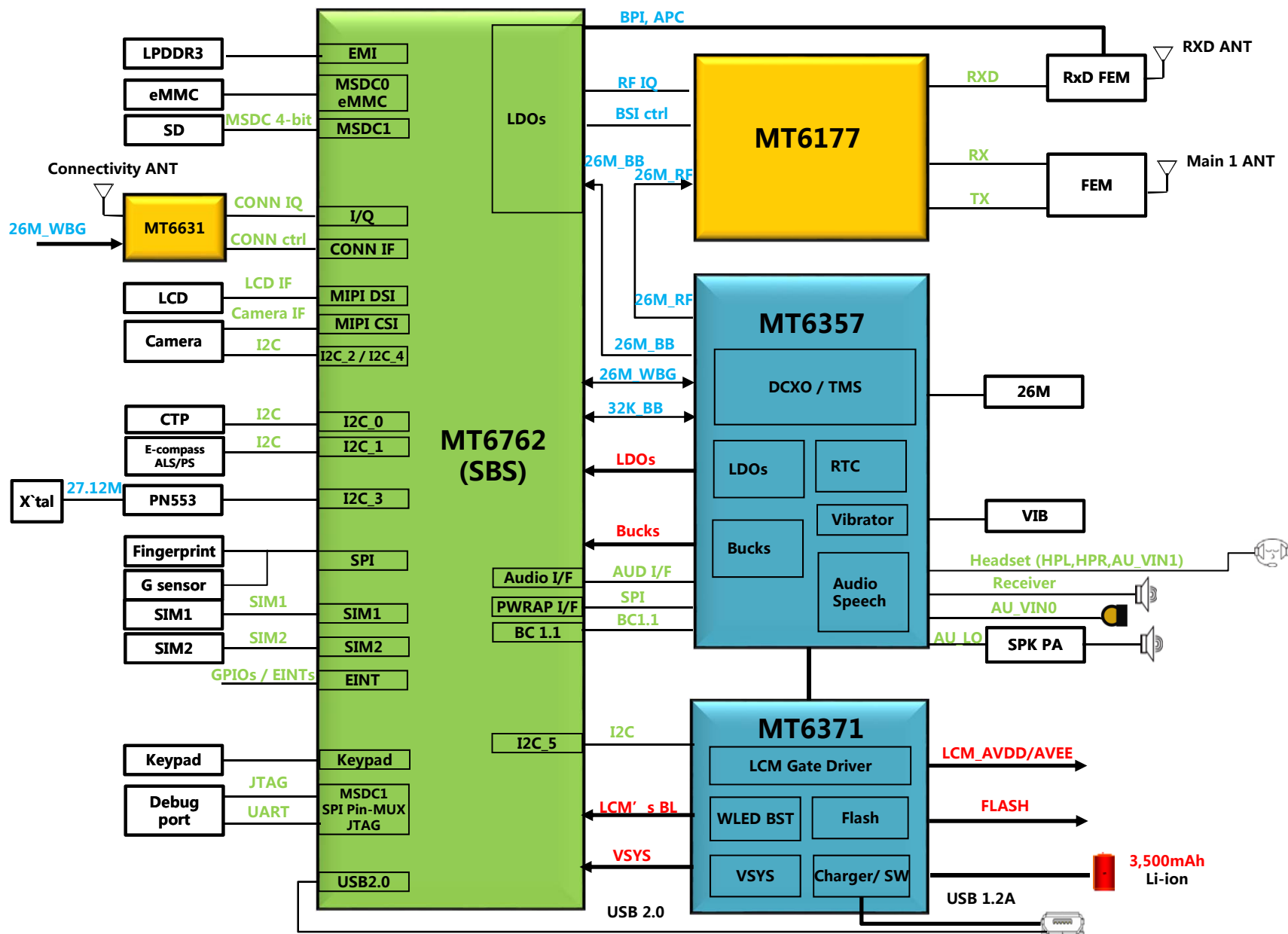


## Circuit Diagram



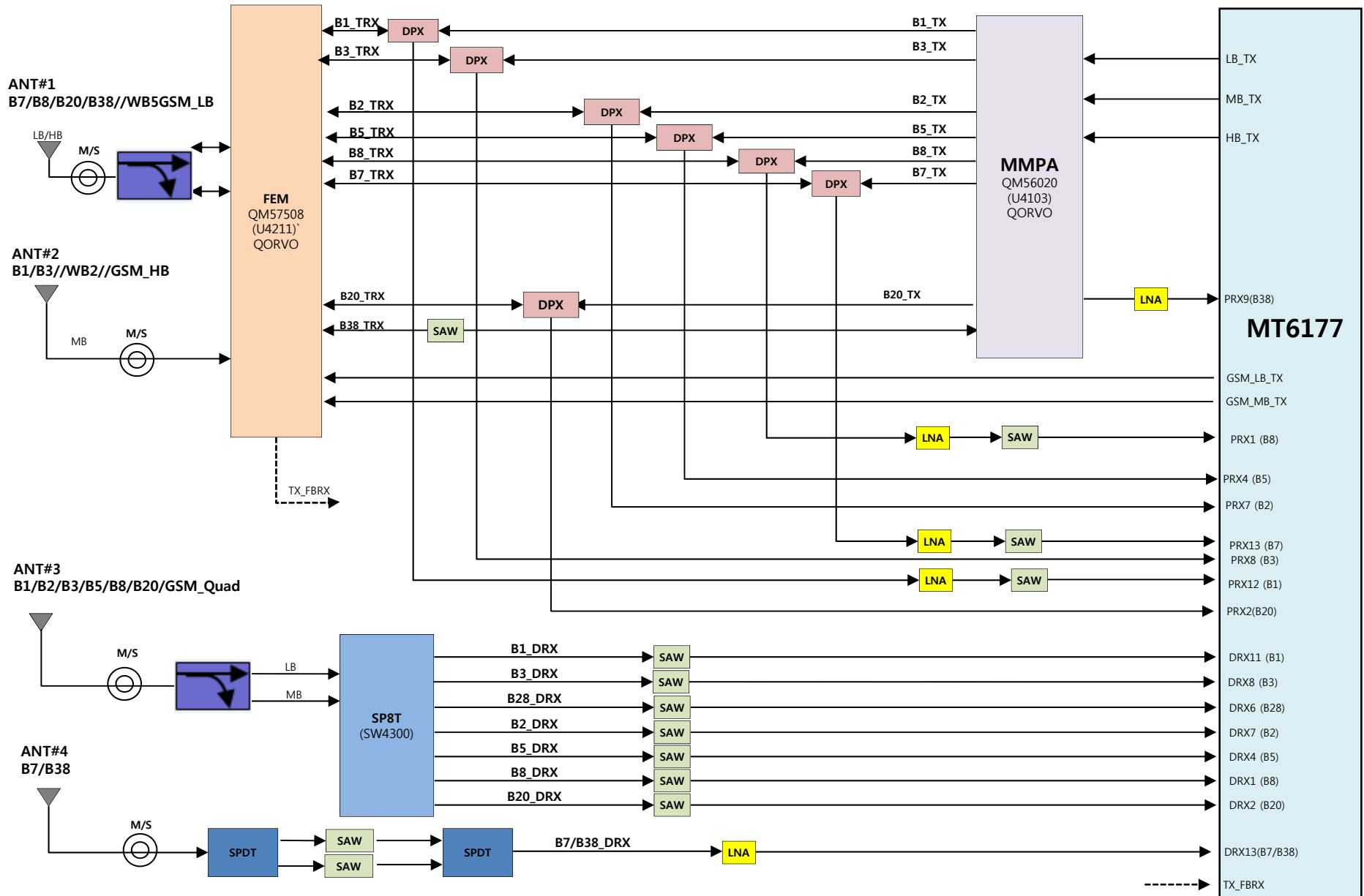
# BLOCK DIAGRAM

# 1. Total

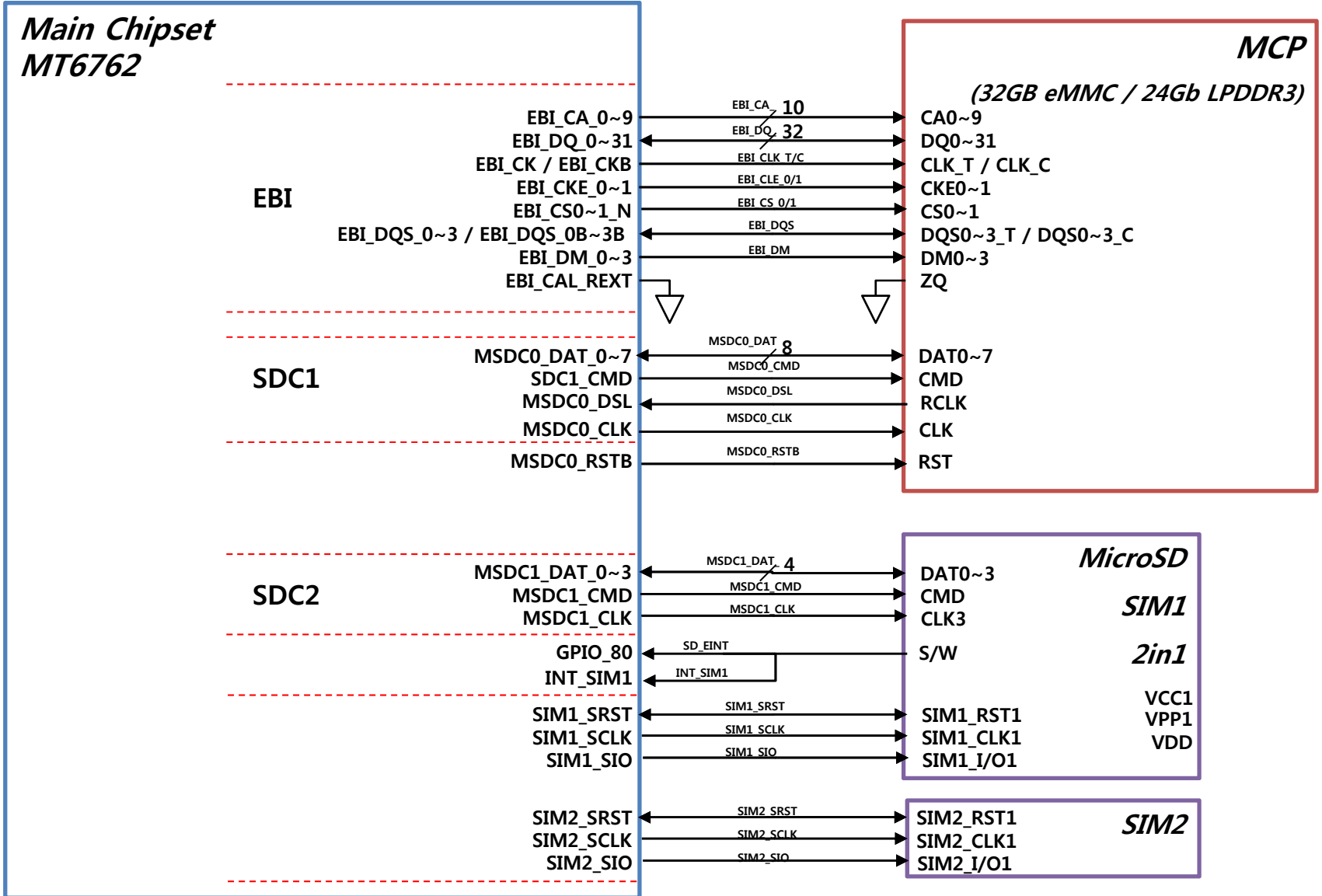




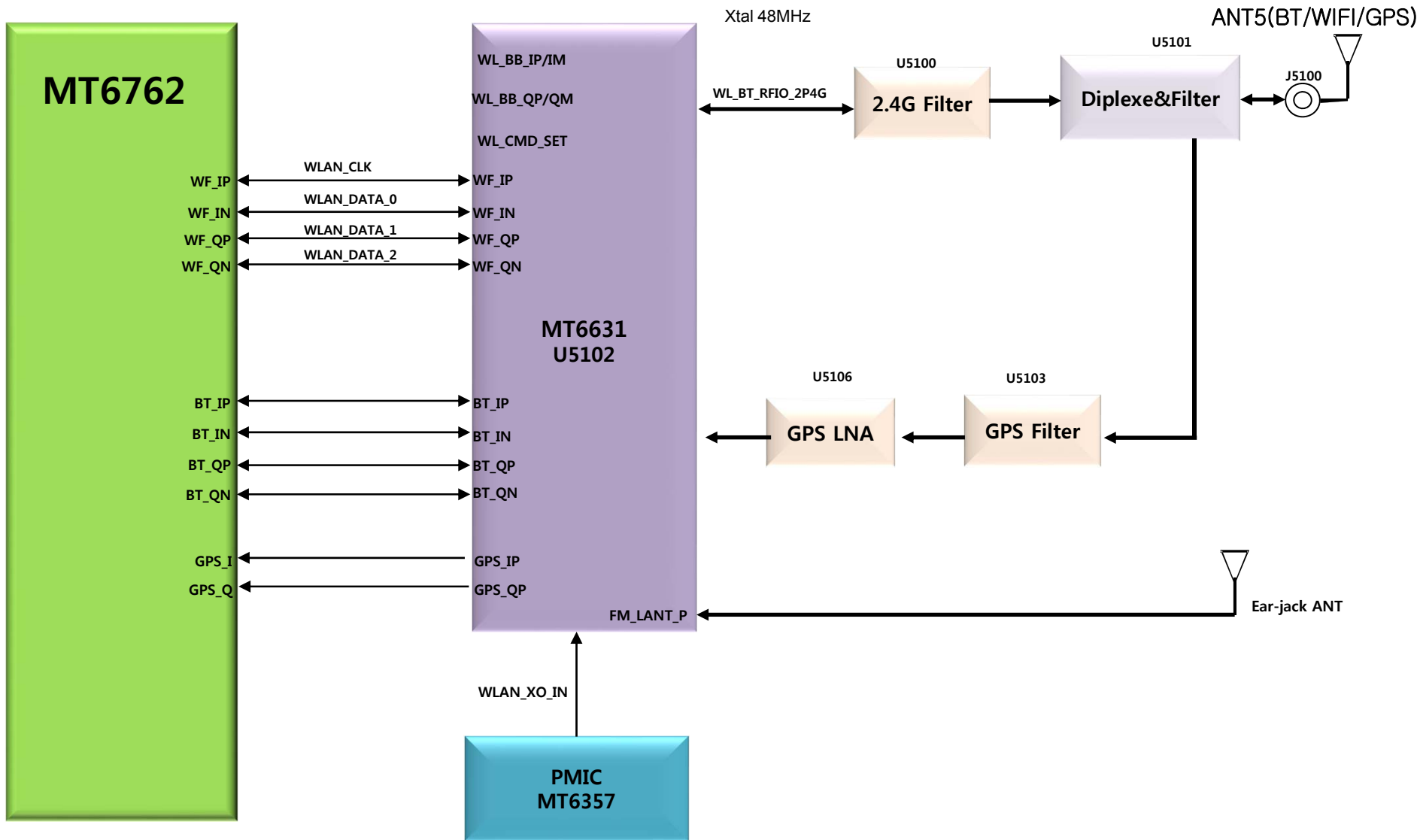
# 2. RF



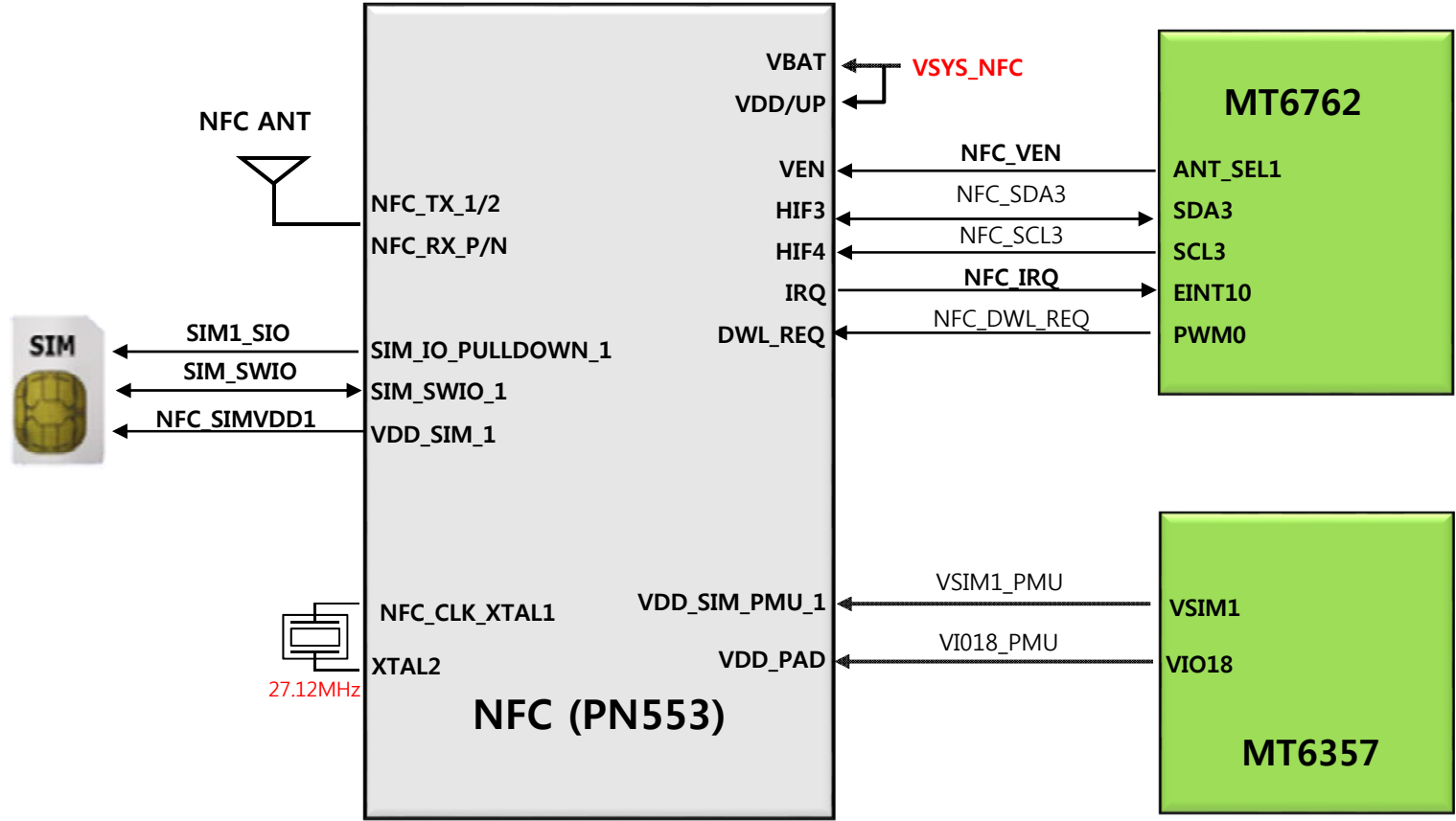
### 3. MSM-Memory/Micro SD/USIM1



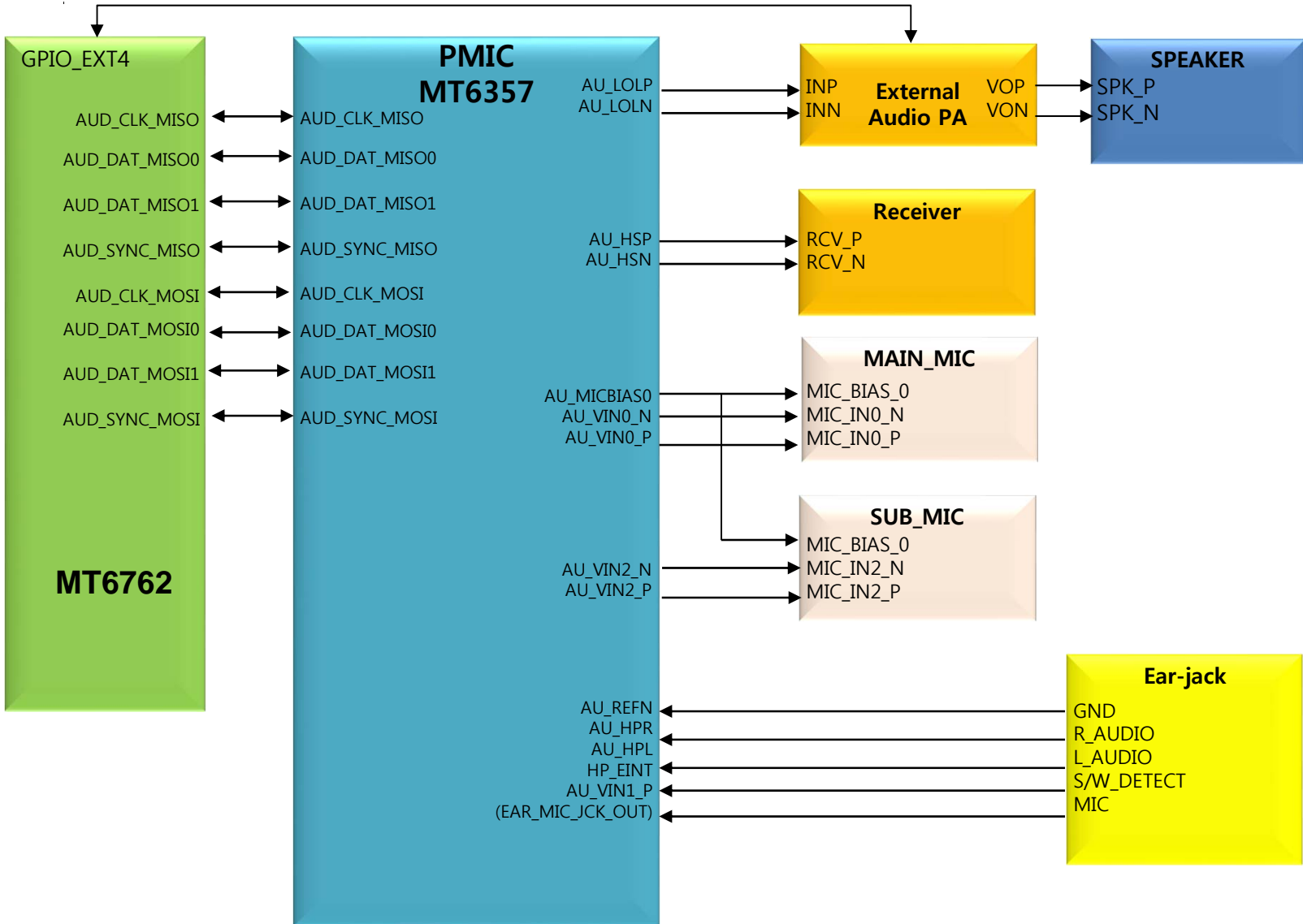
# 4. Connectivity(BT/WIFI/GPS/FM)



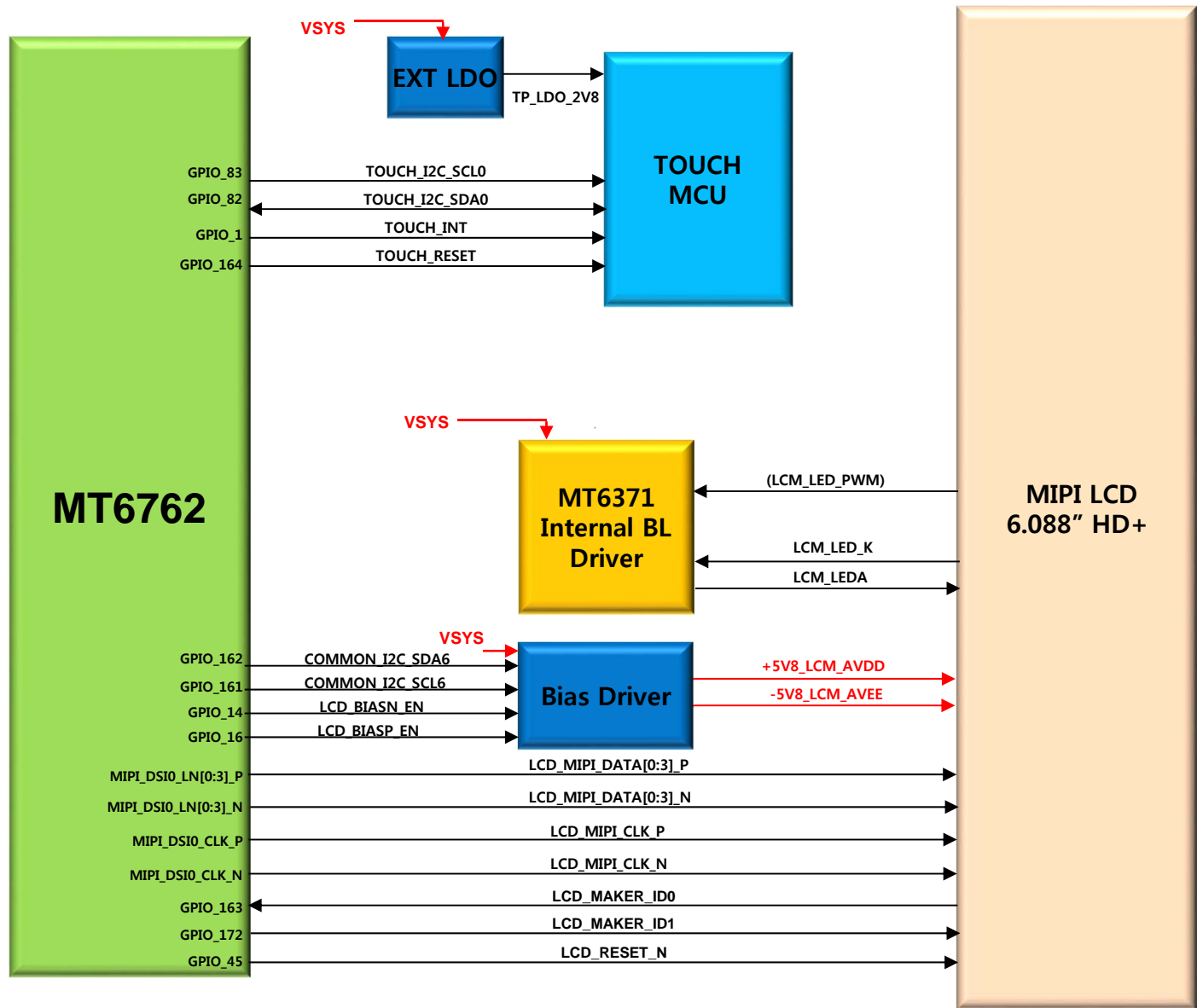
# 4. Connectivity(NFC)



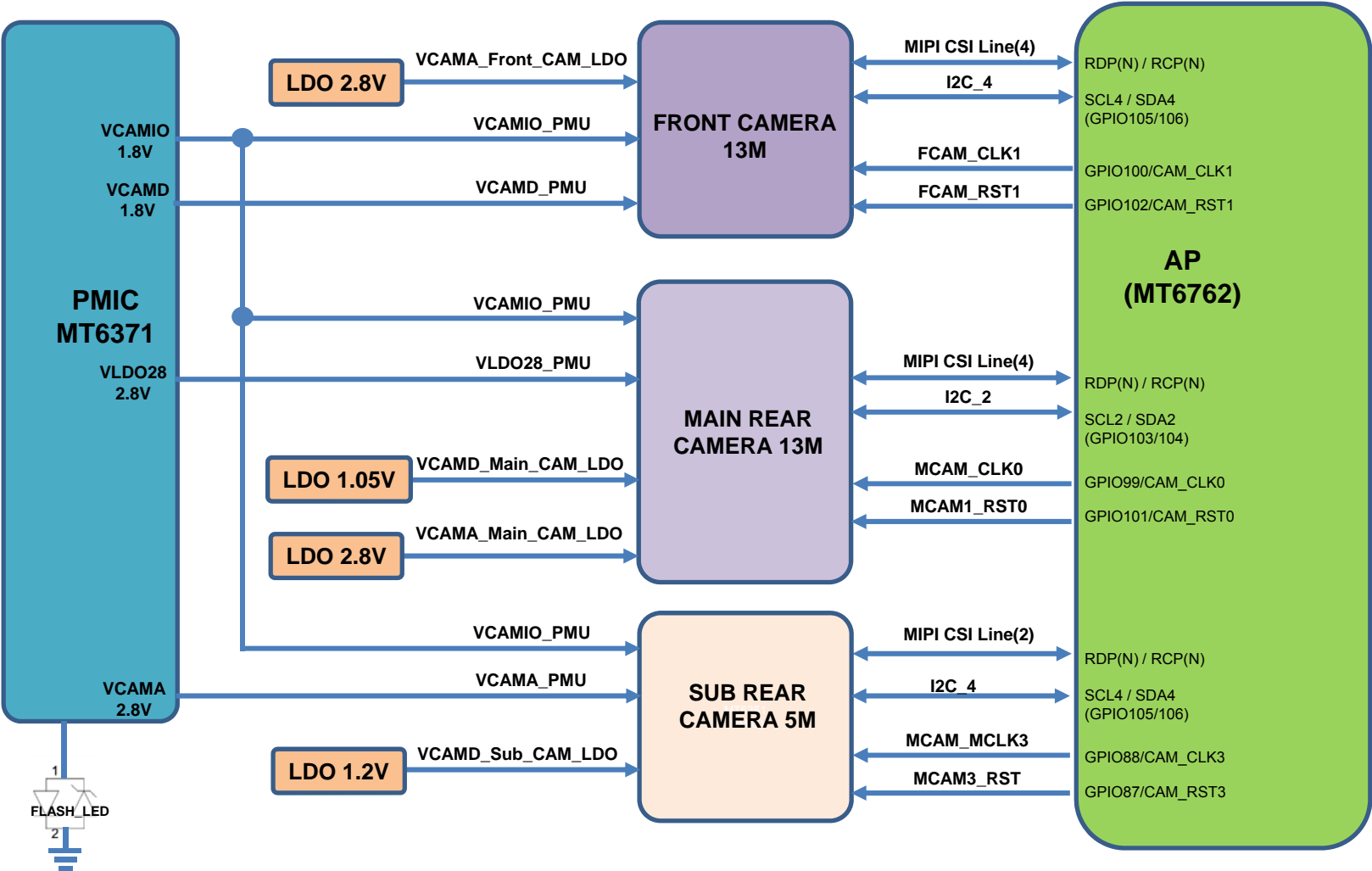
# 5. Audio



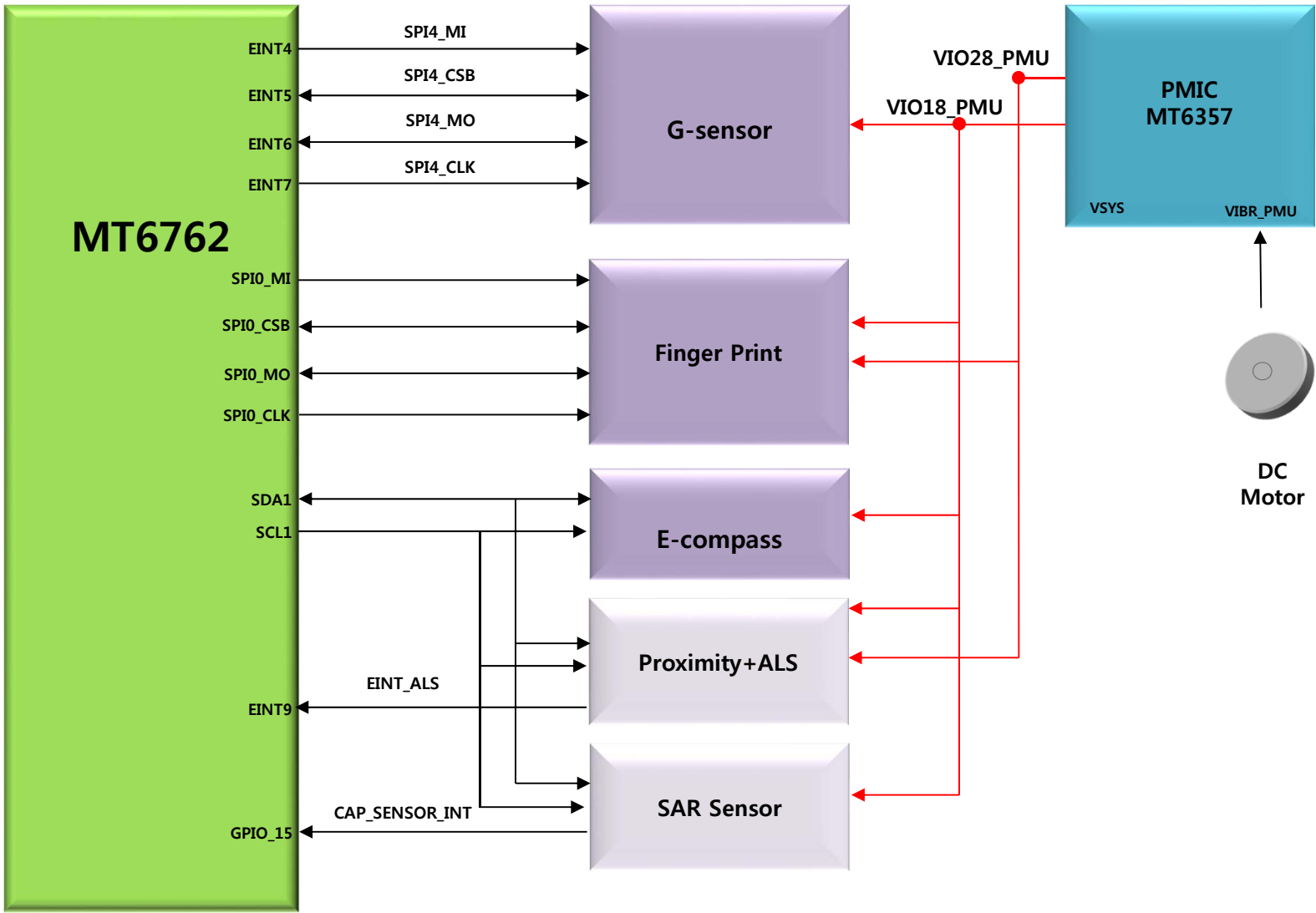
# 6. Display



# 7. Camera

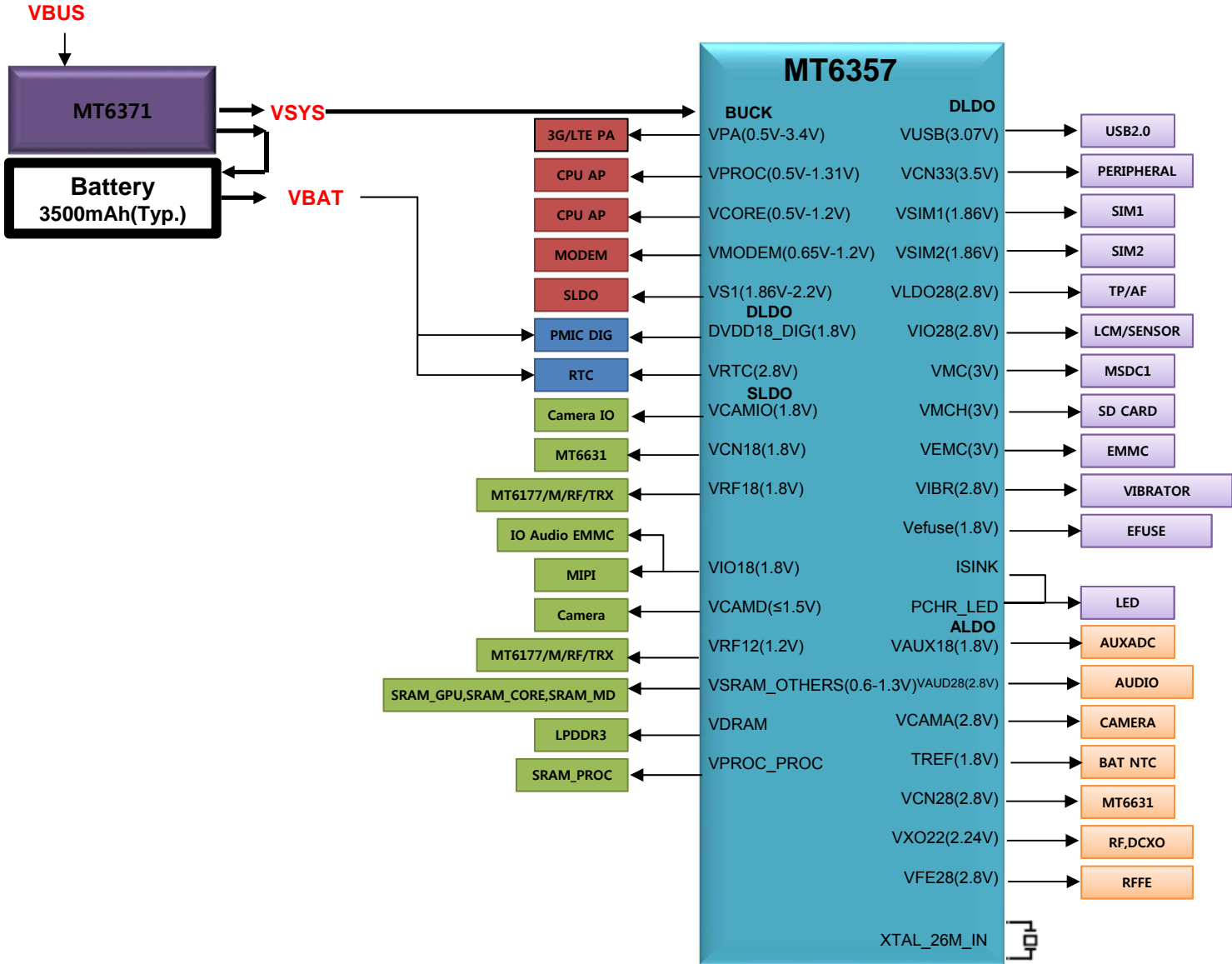


# 8. Sensors/Logics

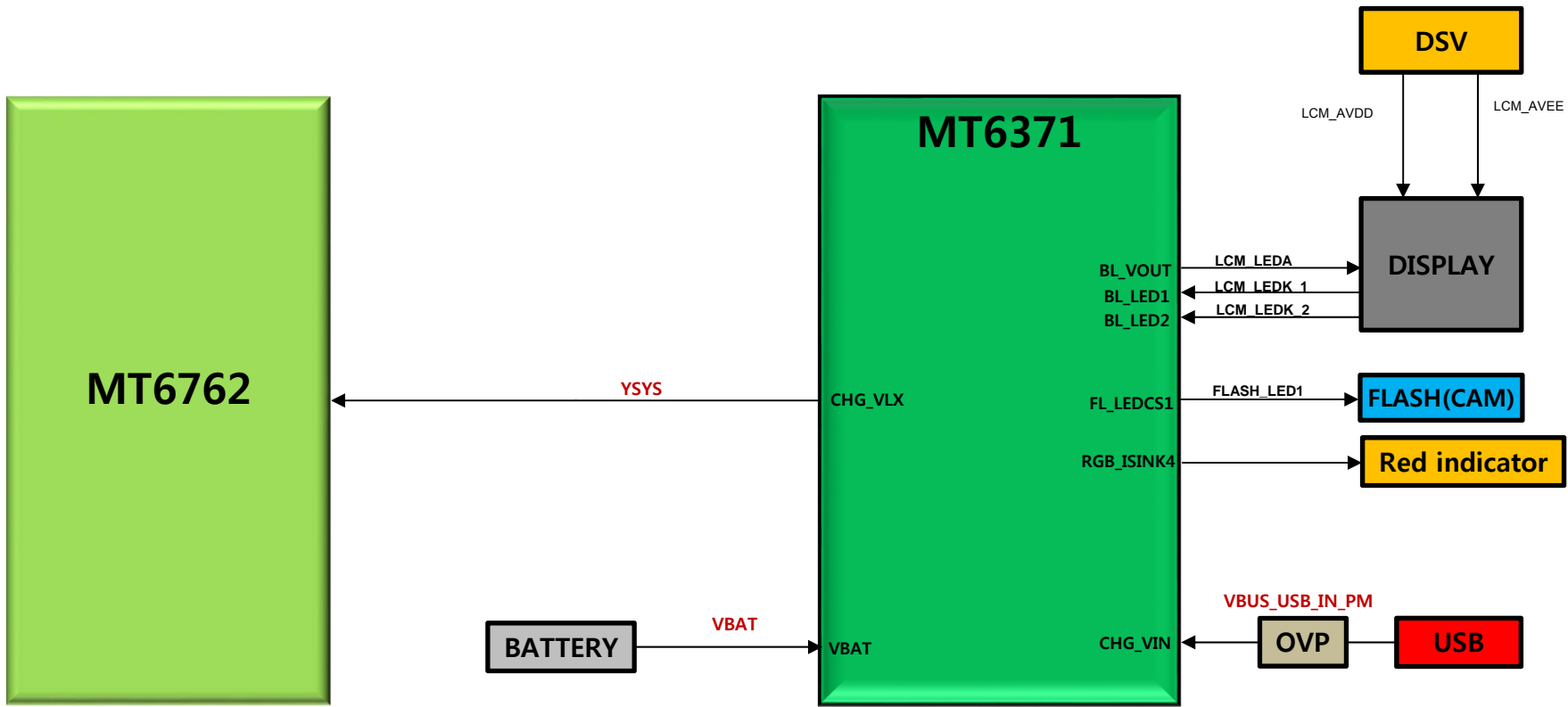




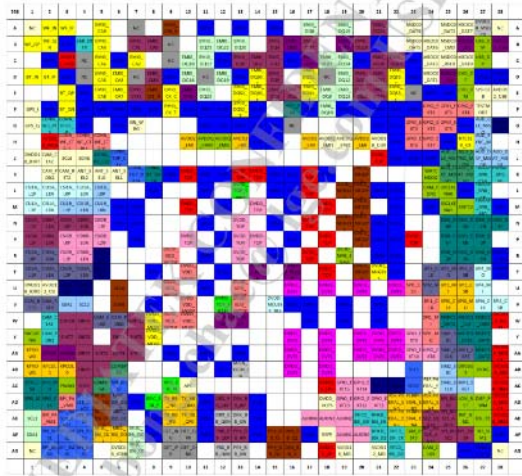
# 9. Power



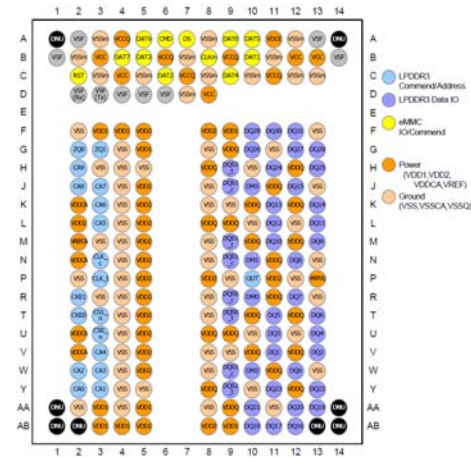
# 10. Charger / DSV



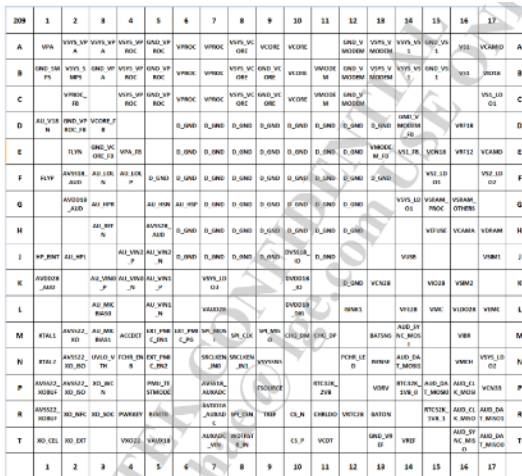
## U1200\_MT6762\_IC, Digital Baseband Processor



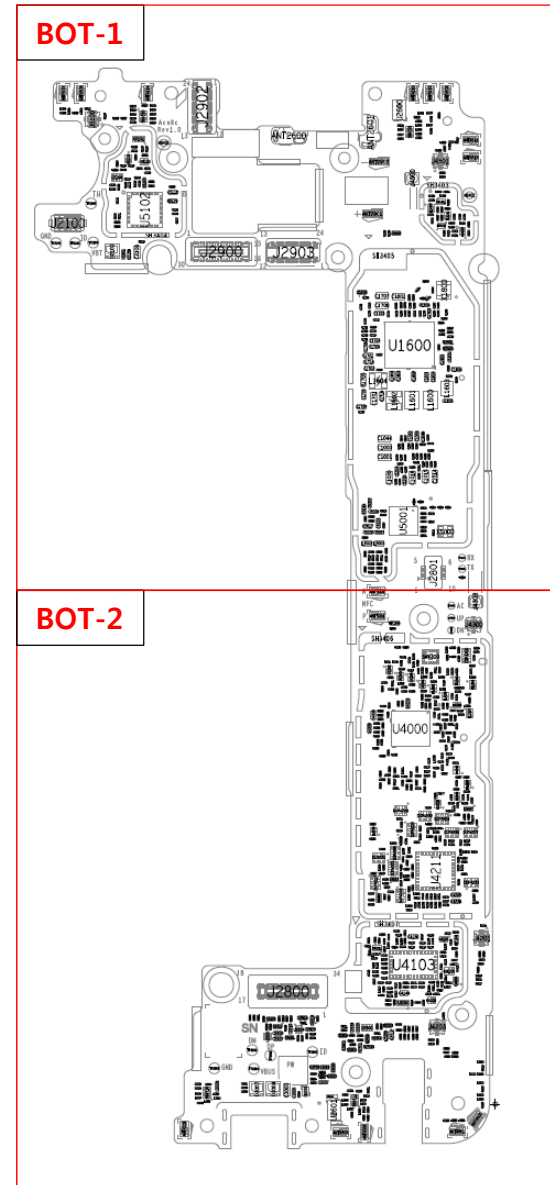
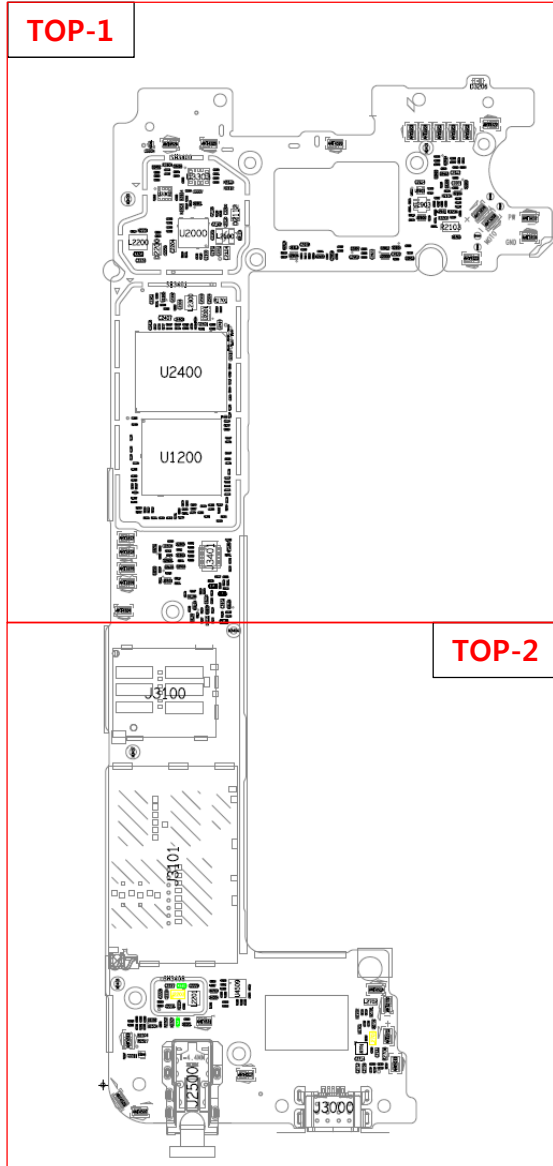
## U2400\_H9TQ27ABJTMCUR-KUM\_IC, MCP.eMMC



## U1600\_MT6357\_IC, PMIC



## LMX430EMW- MAIN\_TOP & BOT



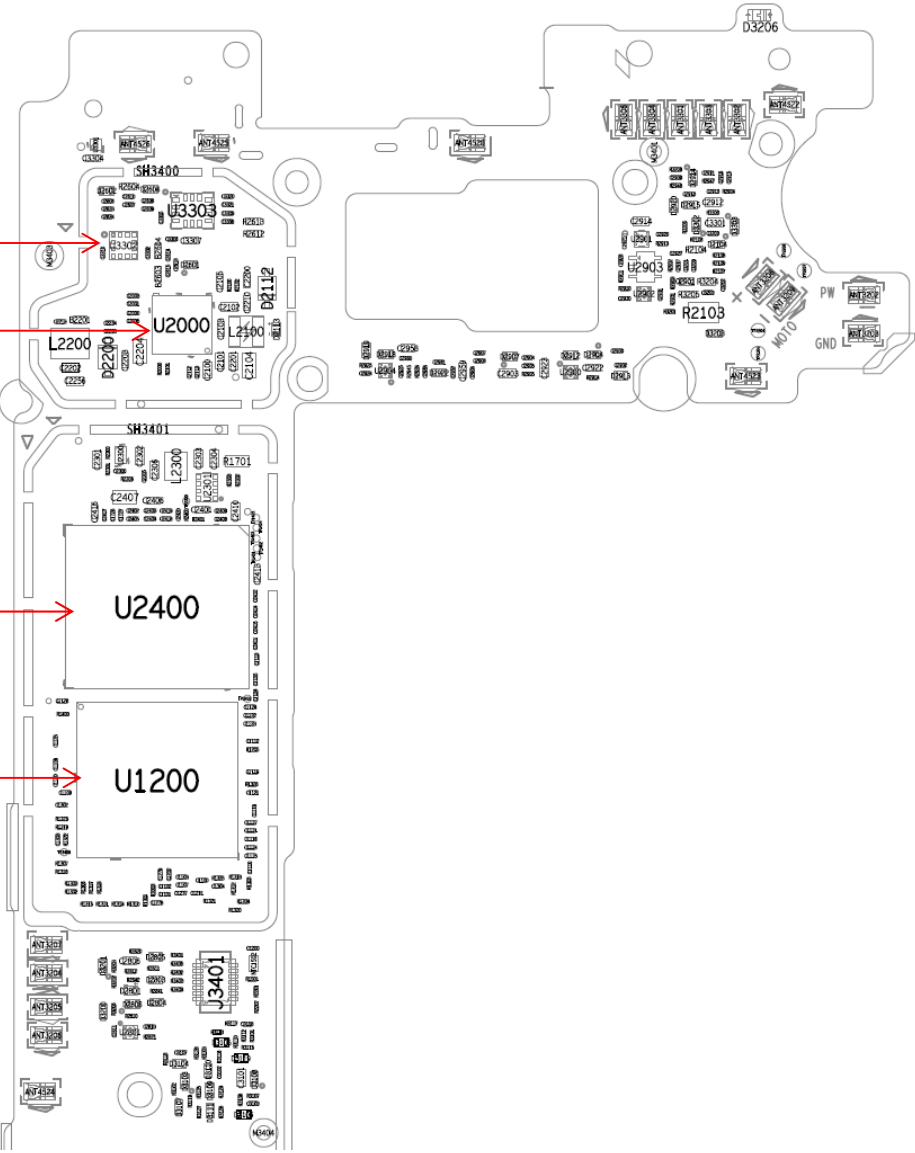
LMX430EMW- MAIN\_TOP 1

U3302 – Accelerometer Chipset  
No Accelerometer sensor

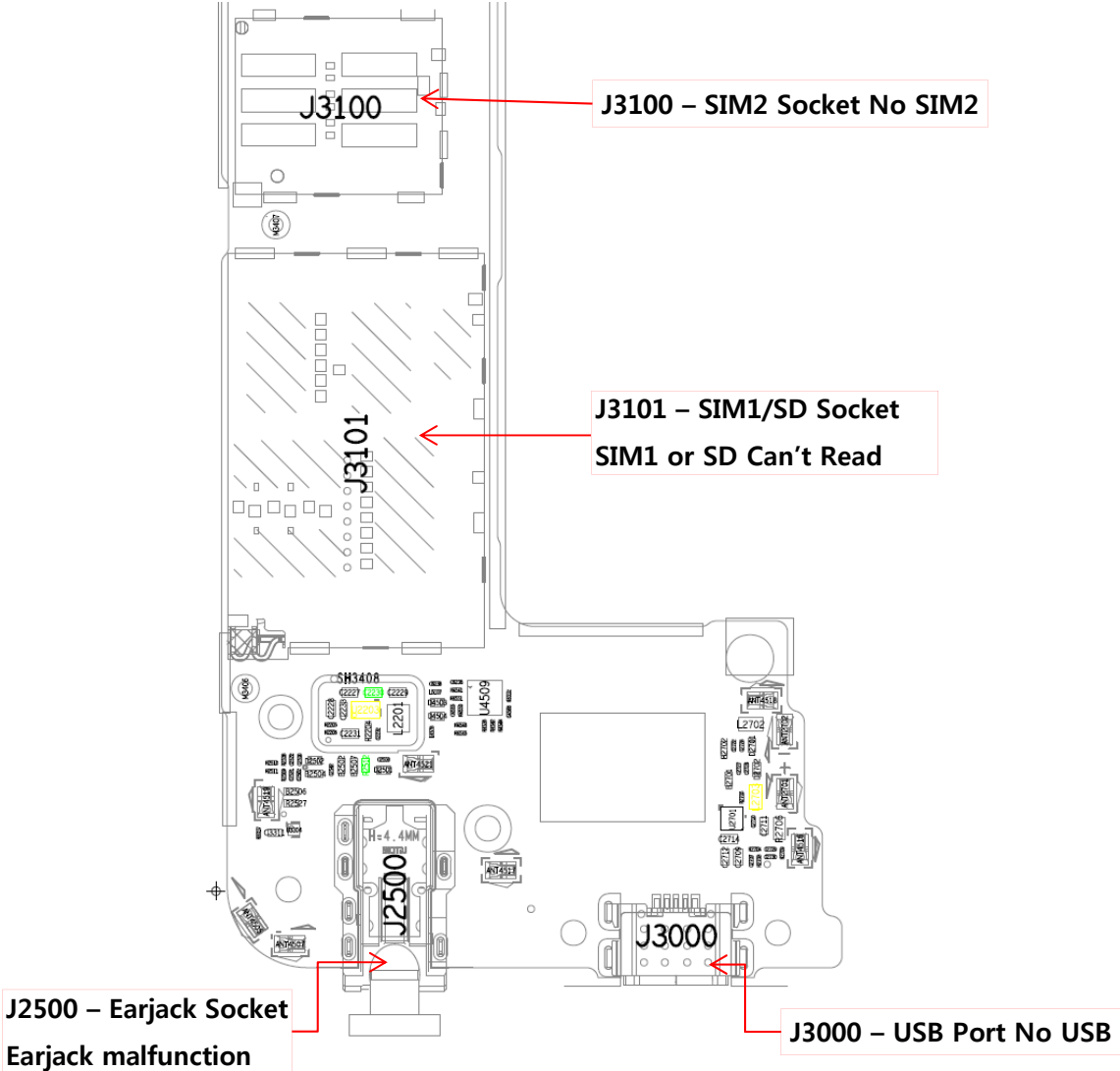
U2000 – charger IC  
No Power on or no Charging

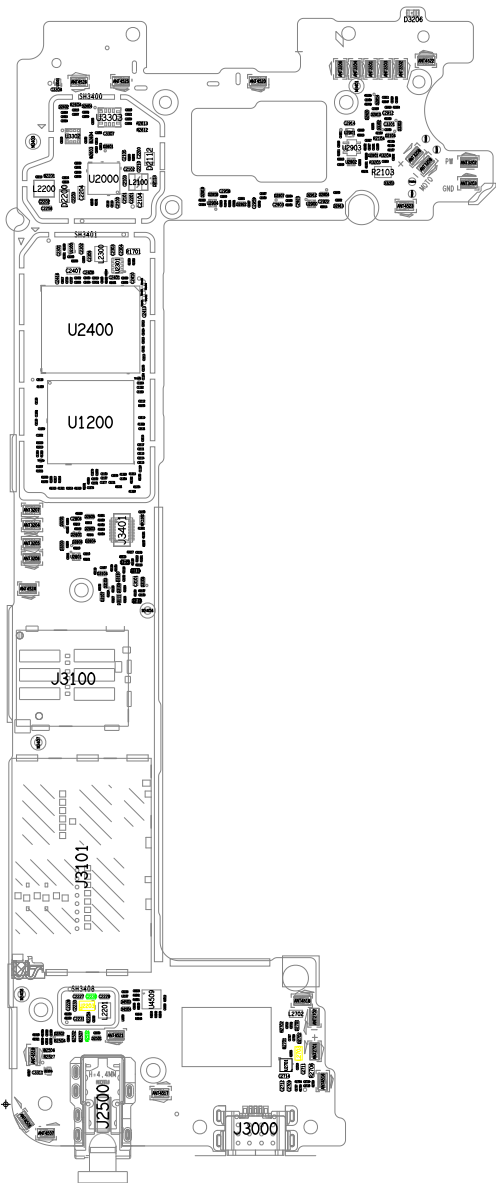
U2400 - Memory  
No Power on

U1200 – AP MT6762  
No Power on

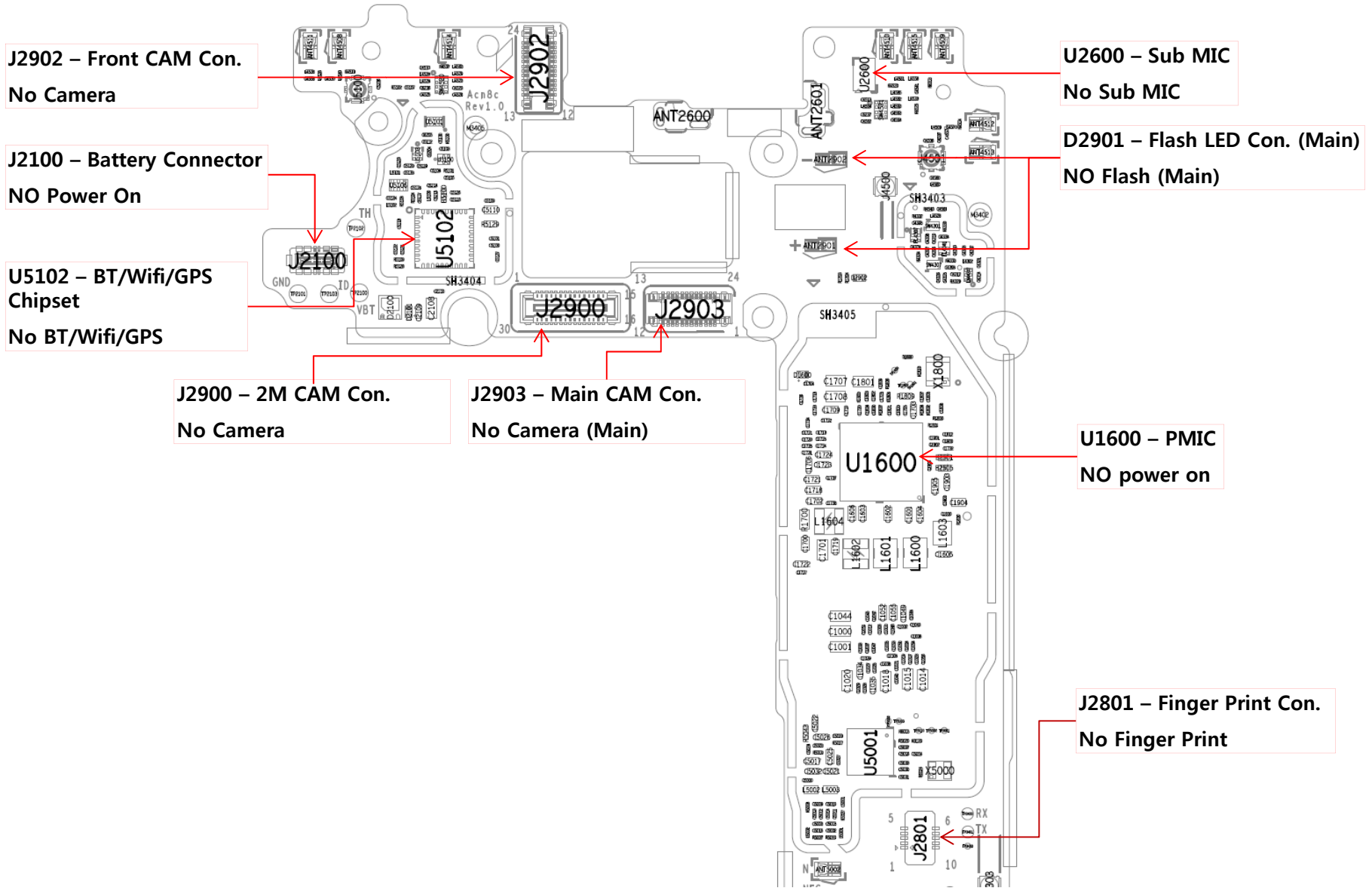


LMX430EMW- MAIN\_TOP 2



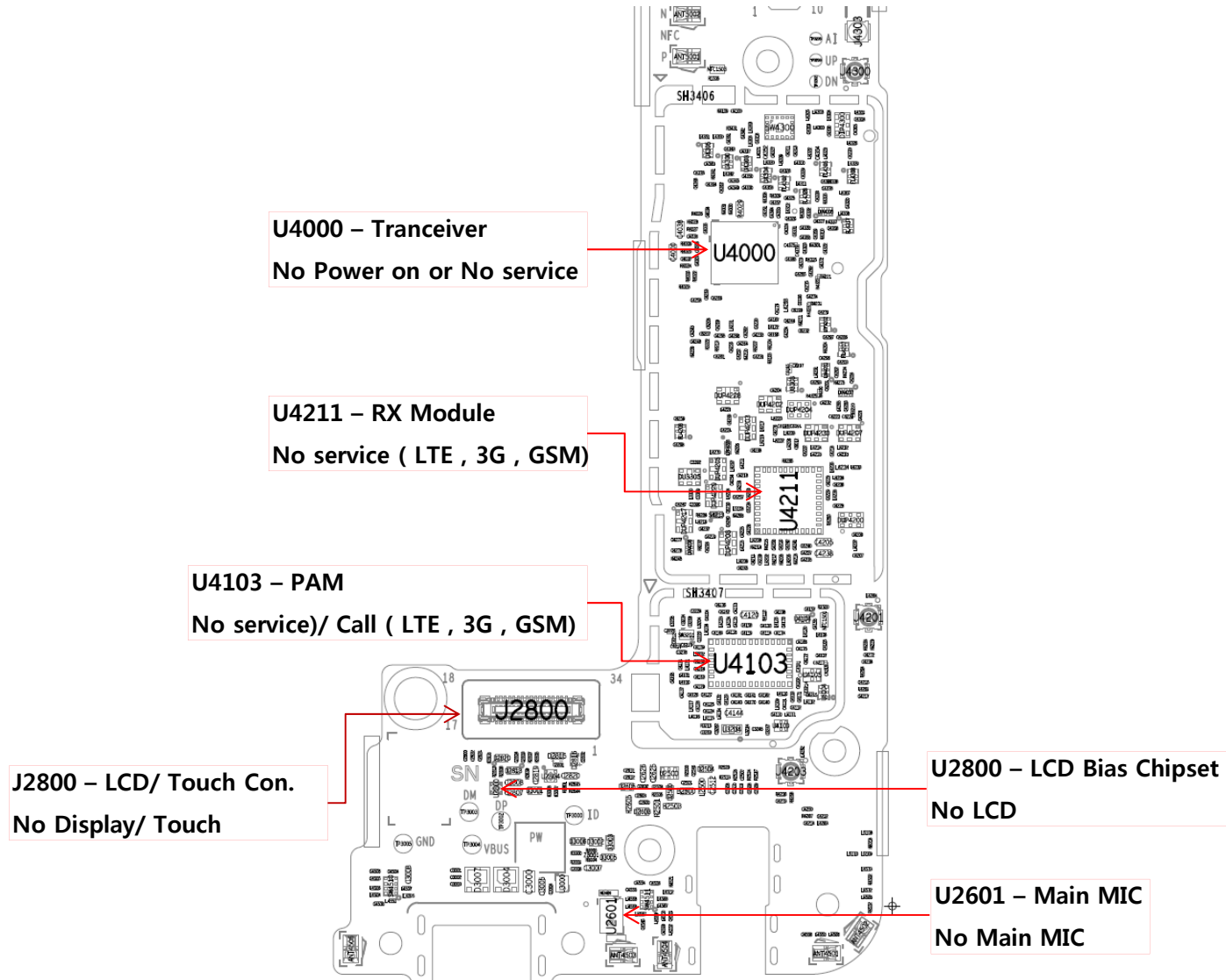


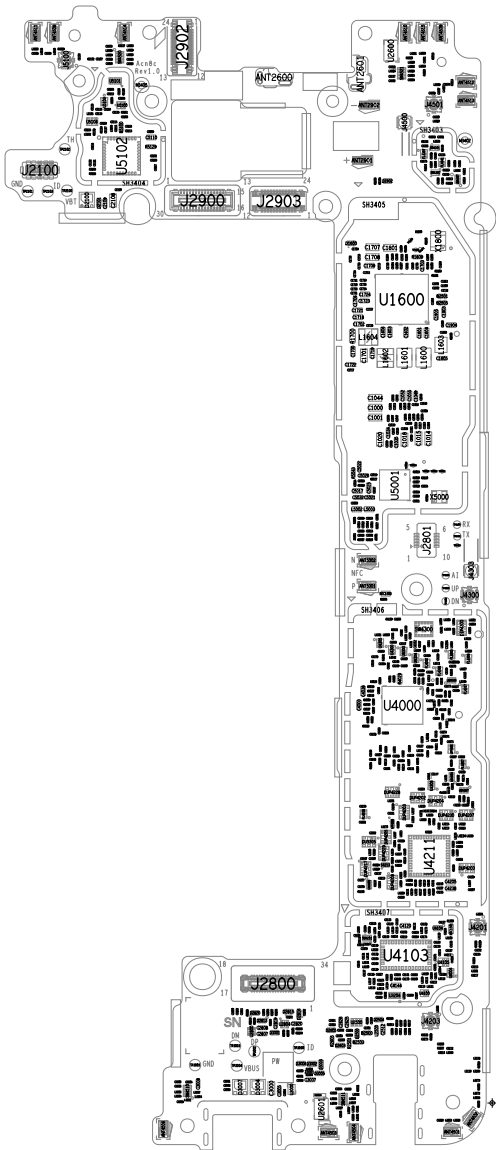
# LMX430EMW- MAIN\_BOT 1





# LMX430EMW- MAIN\_BOT 2

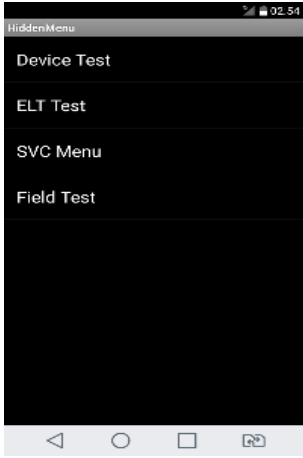




# 7. Memory Variation

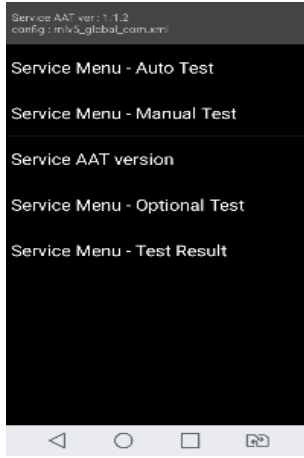
		<b>Prime</b>			
<b>PCB Revision</b>	PCB Revision	PCB_REV_3	PCB_REV_2	PCB_REV_1	
	0	0	0	0	
	A(PP0)	0	0	1	
	B(PP1)	0	1	0	
	C	0	1	1	
	1.0(PP2)	1	0	1	
<b>Memory</b>	P/N: EAN65980601 RAM Size: 2GB ROM Size: 32GB				P/N: EAN64213503 RAM Size: 3GB ROM Size: 32GB
	<b>Applied Models</b>	LMX430EMW, LMX430FMW, LMX430ZMW, LMX430ZM, LMX430HM			

## 1. Hidden Menu Start



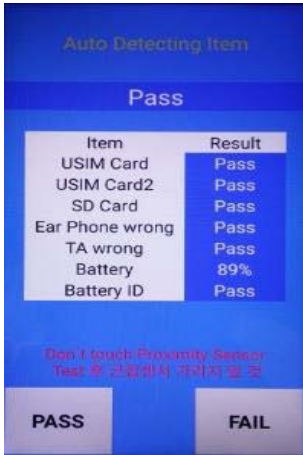
- Start shortcut key:  
\*#546368#\*430#
- Hidden Menu List  
: Start the desired menu, click

## 2. Device Test - SAAT



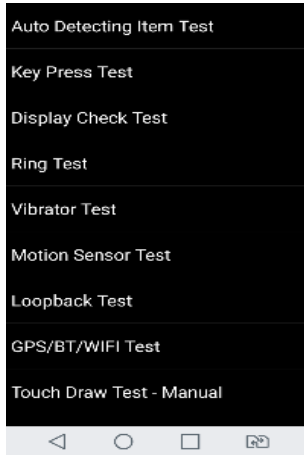
- Service Menu – Auto Test
- Service Menu – Manual Test
- Service AAT version  
→ Hidden Menu version Display

## 2. Device Test

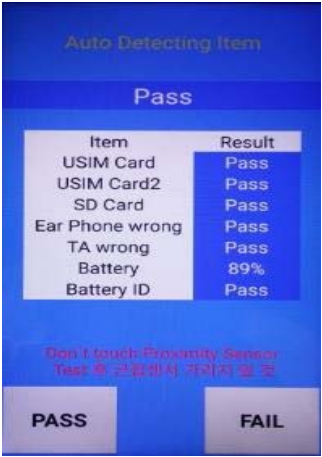

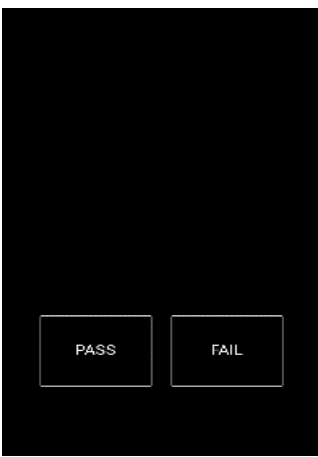
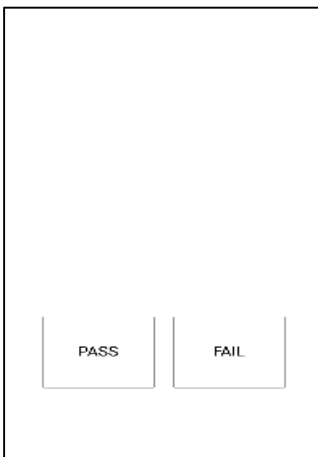







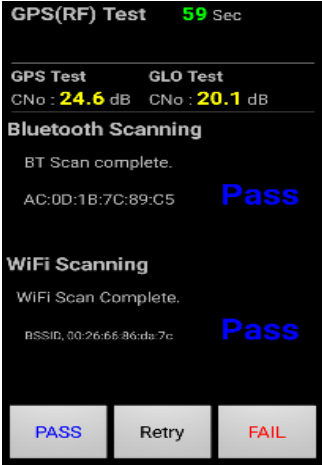



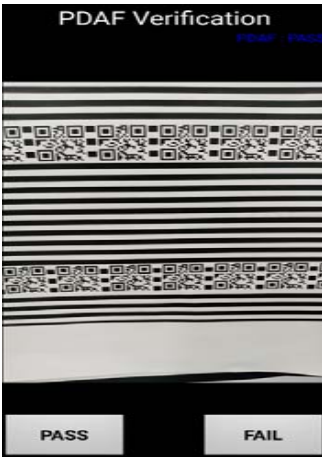


- Service Menu – Auto Test  
→ All Test Items are continued one after another.  
→ Continuous information on the menu, giving you ability test.

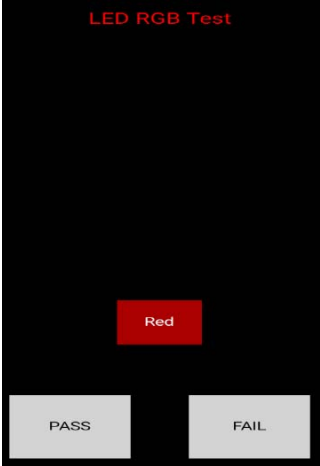


## 3. Device test List



- Service Menu – Manual Test  
→ Each test item can be selected and performed by user.

1. Auto Detecting Item Test	2. Key Press Test	3. Display Check Test (1)	4. Display Check Test (2)																
 <p>Auto Detecting Item</p> <p>Pass</p> <table border="1"> <thead> <tr> <th>Item</th> <th>Result</th> </tr> </thead> <tbody> <tr> <td>USIM Card</td> <td>Pass</td> </tr> <tr> <td>USIM Card2</td> <td>Pass</td> </tr> <tr> <td>SD Card</td> <td>Pass</td> </tr> <tr> <td>Ear Phone wrong</td> <td>Pass</td> </tr> <tr> <td>TA wrong</td> <td>Pass</td> </tr> <tr> <td>Battery</td> <td>89%</td> </tr> <tr> <td>Battery ID</td> <td>Pass</td> </tr> </tbody> </table> <p>Don't touch Proximity Sensor Test 후 근접센서 가리지 않 것</p> <p>PASS FAIL</p>	Item	Result	USIM Card	Pass	USIM Card2	Pass	SD Card	Pass	Ear Phone wrong	Pass	TA wrong	Pass	Battery	89%	Battery ID	Pass	 <p>the EXT auto test</p> <p>Block the sensor with your hand Proximity : FAR</p> <p>Block the light with your hand Light:203.00</p> <p>Cal Start</p> <p>PASS FAIL</p>	 <p>PASS FAIL</p>	 <p>PASS FAIL</p>
Item	Result																		
USIM Card	Pass																		
USIM Card2	Pass																		
SD Card	Pass																		
Ear Phone wrong	Pass																		
TA wrong	Pass																		
Battery	89%																		
Battery ID	Pass																		
5. Ring Test	6. Vibrator Test	7. NFC Test	8. Motion Sensor Test																
 <p>the EXT auto test</p> <p>Ring Test</p> <p>ON SOUND</p> <p>PASS FAIL</p>	 <p>the EXT auto test</p> <p>Vibrator Test</p> <p>ON VIBRATION</p> <p>PASS FAIL</p>	 <p>NFC Test</p> <p>Reader mode Test PASS</p> <p>SWP self Test PASS</p> <p>START</p> <p>PASS FAIL</p>	 <p>Calibration LV : 3</p> <table border="1"> <thead> <tr> <th></th> <th>X</th> <th>Y</th> <th>Z</th> </tr> </thead> <tbody> <tr> <td>Magnetic</td> <td>20.00</td> <td>20.00</td> <td>20.00</td> </tr> <tr> <td>Accelerometer</td> <td>0.01</td> <td>1.26</td> <td>10.09</td> </tr> </tbody> </table> <p>Motion Accel(N/A) Gyroscope Sensor(N/A)</p> <p>Stand the phone vertically.</p> <p>PASS FAIL</p>		X	Y	Z	Magnetic	20.00	20.00	20.00	Accelerometer	0.01	1.26	10.09				
	X	Y	Z																
Magnetic	20.00	20.00	20.00																
Accelerometer	0.01	1.26	10.09																

<p><b>9. Loop Back Test</b></p>	<p><b>10. GPS/BT/WiFi Test</b></p>	<p><b>11. Touch Draw Test</b></p>	<p><b>12. Camera Test (Main)</b></p>
			
<p><b>13. Camera Test (Main Wide)</b></p>	<p><b>14. PDAF Test</b></p>	<p><b>15. Camcorder Test OTG Test</b></p>	<p><b>16. Camera Test (VT)</b></p>
			

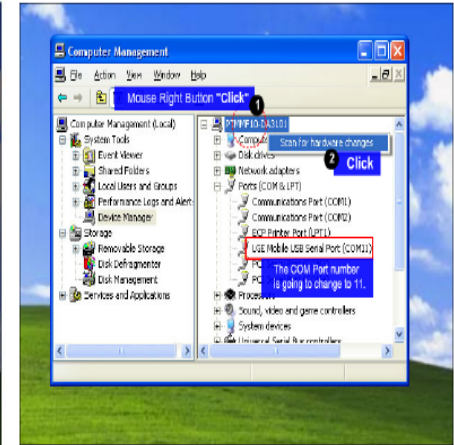
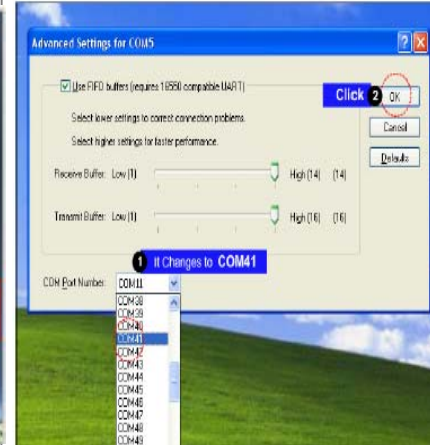
17. LED Test	18. OTG Test	19. FingerPrint Test	
			

## 1. Summary

Tool Version	DLL name	USB Driver	
2.0.2.6	COMMON_20181023_LGFLAS Hv216.dll	LGMobileDriver_WHQL_Ver_4.2.0	
<b>Please Check the Version to "LGST ServiceCenter Tool"</b>			
H/W	Name	Part No.	SW
D/L Cable	Micro 5P (56-open-910K) USB DLC	RAD32167835	TOT



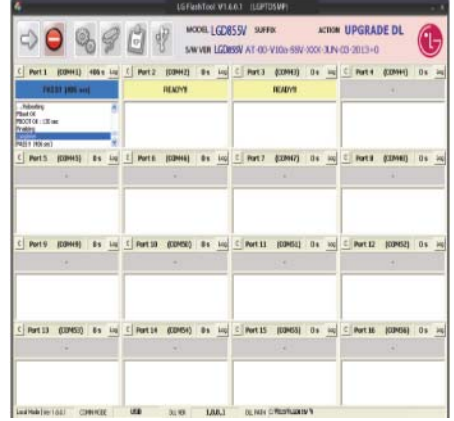
## 2. USB COM port Setting



## 3. USB D/L Cable setting



## 4. Flash tool D/L setting

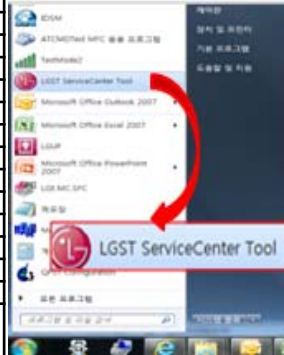


※ If you want more information, please refer LGST ServiceCenter Tool's Notification "Download User Guide".

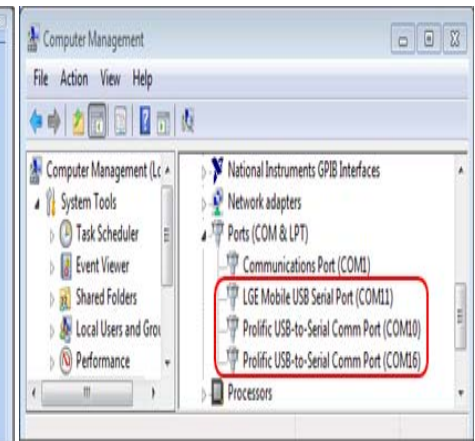
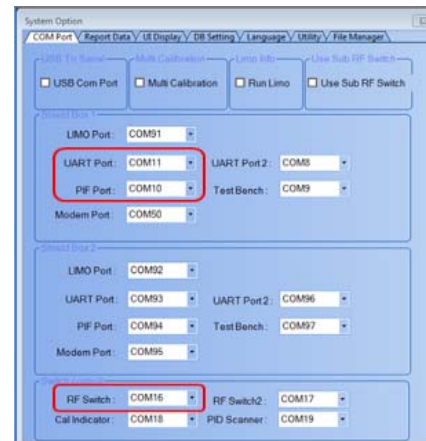


## 1. Summary

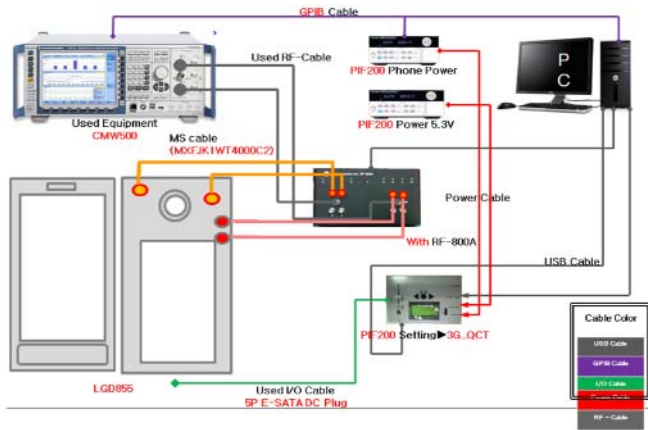
CAL INFORMATION		
S/W VERSION		
Please Check the Version to "B2B"		
H/W	Name	Part No.
PIF	PIF200	BJAY0024021
USB Cable	USB Cable	RAD32247898
Power Cable	DC Power Cable	RAD32247878
I/O Cable		
RF Cable_Main		
Power Supply_PIF		
Power Supply_Phone	Power supply 5.0V	
PF Test Equipment		
Notice	1. Use the Battery (Refer to Attached ppt) 1) Phone states: Power off 2) If do not use the battery, TX fails. 2. Port Setting (Refer to Attached ppt) 1) Uart Port1 : Use the "LGE Mobile USB Serial Port"	
CMW 500 RF Cable connection		



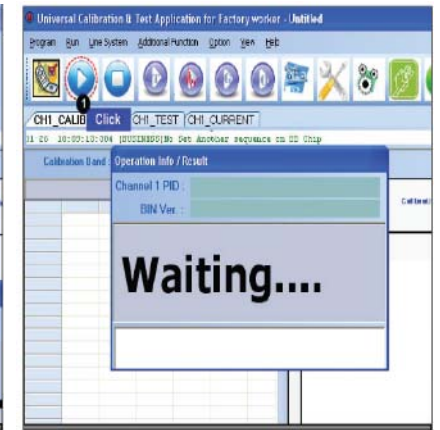
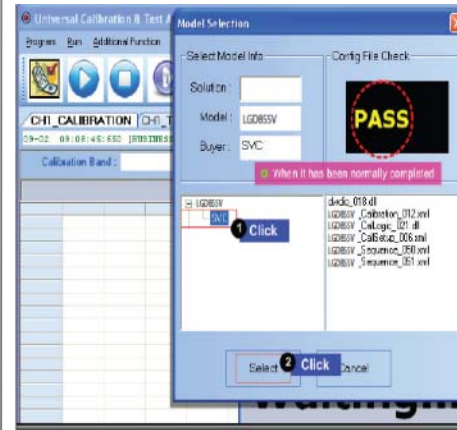
## 2. USB COM port Setting



## 3. Calibration Cable setting





## 4. Tachyon setting





※ If you want more information, please refer LGST ServiceCenter Tool's Notification "RF Calibration User Guide".

# 11. DISASSEMBLE GUIDE

## 12.1 Phone Disassemble Guide

<p><b>1. Disassemble SIM Tray</b></p> 	<p><b>2. Disassemble Rear cover</b></p>  <p>From the bottom left of the rear cover, disassemble direction of red arrows.</p>	<p><b>3. Disassemble Screw (20ea)</b></p> 	<p><b>4. Disassemble Inner Cover</b></p> 
<p><b>5. Disassemble Connector (2ea) and Main PCB</b></p> 	<p><b>6. Disassemble HW Parts (2ea)</b></p> 	<p><b>7. Complete Disassembling</b></p> 	

## 12.2 Battery Disassemble Guide

<p>1. . Leave Bar Assy in freezing chamber (-20°, 20min)</p>	<p>2. Disassemble Battery</p>	<p>3.</p>	<p>4.</p>
	 <p>Put "Hera" into the bottom side of battery and disassemble</p>		
<p>5.</p>	<p>6.</p>	<p>7.</p>	<p>8.</p>

## 12.4 FPS Disassemble Guide



Push finger print sensor until the other side of the FPS peel off a little. Then disassemble it from the rear cover

지문센서쪽을 누른 후 반대쪽이 살짝 들리도록 한다. 그 부위를 이용하여 리어커버에서 살짝 들어올려 분리한다.

## 12.5 FPS re-assemble Guide



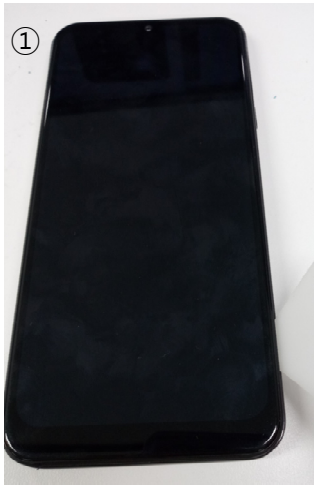
Put the finger print sensor on the FPS guide of rear cover. Compress after assemble by hand.

지문센서의 외곽과 리어커버의 외곽 가이드의 위치를 맞춰 조립한다. 조립 후 손으로 압박 한다.

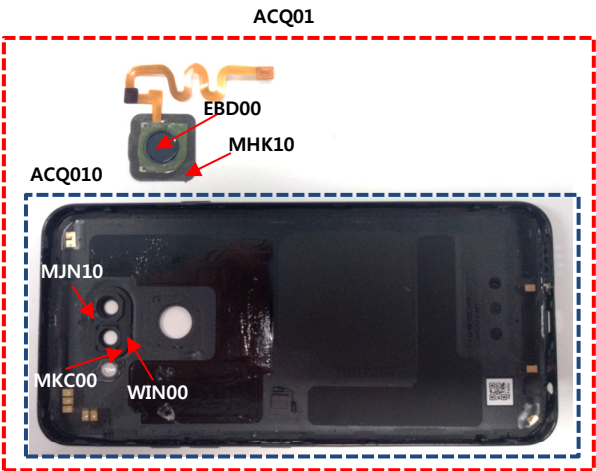
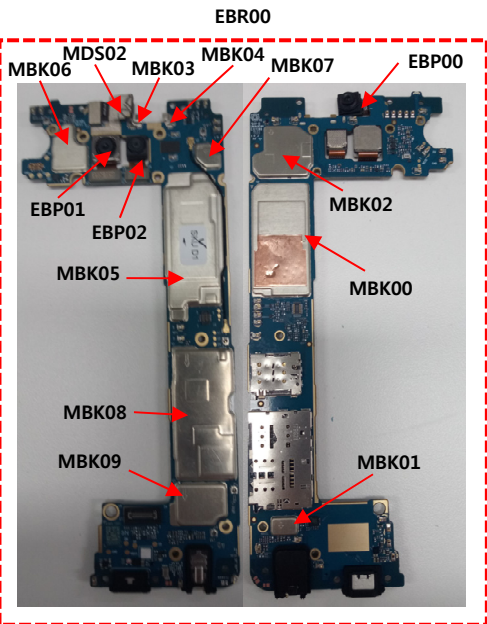
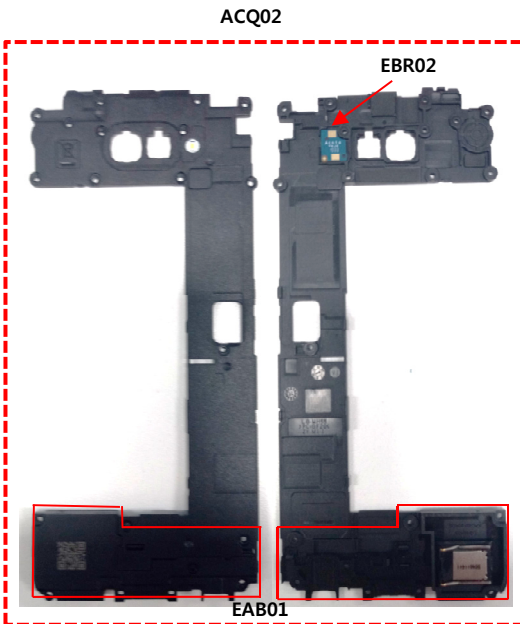
## 12.6 Cover Rear Disassemble Guide

### Rear Cover Assy 분해

- ① 헤라를 이용하여 LCD 면 우측하단의 Hook를 분리 한다.
- ② 열린 Rear Cover의 틈을 벌려 하단 Rear Cover를 분리 한다.
- ③ 커버를 위로 들어 올린 후 지문키 FPCB의 커넥터를 헤라를 사용하여 분리 한다.



# 12. EXPLODED VIEW



# 13. REPLACEMENT PART LIST

No	Part No	Description	Qty	Location No.
1	AGQ91064304	Phone Assembly	1	AGQ000000
2	ACQ30018301	Cover Assembly,EMS	1	ACQ100400
3	ABN76338501	Cap Assembly	1	ABN000000
4	ABN76338601	Cap Assembly	1	ABN000001
5	ACQ30018401	Cover Assembly,Inner	1	ACQ040800
6	EAA65964501	PIFA Antenna,RF	1	EAA030100
7	EBR30090601	PCB Assembly,Sub	1	EBR072900
8	EBR30090701	PCB Assembly,Sub,SMT	1	EBR072800
9	EBR30090801	PCB Assembly,Sub,SMT Bottom	1	EBR072600
10	EAV64993301	LED,Flash	1	EAV010200
11	EAX69371901	PCB,Sub	1	EAX010100
12	MCK71175101	Cover,Inner	1	MCK040800
13	MCQ70513401	Damper,Connector	1	MCQ015701
14	MCQ70513501	Damper,Connector	1	MCQ015702
15	MCQ70553401	Damper,Camera	1	MCQ009401
16	MCQ70588901	Damper,Connector	1	MCQ015700
17	MCQ70589001	Damper,Camera	1	MCQ009400
18	MFB65293901	Lens,Flash	1	MFB029600
19	MJN71651501	Tape	1	MJN000000
20	ACQ91615701	Cover Assembly,Bar	1	ACQ003400
21	ACQ91599701	Cover Assembly	1	ACQ000000
22	ACQ91655201	Cover Assembly,Middle	1	ACQ049200
23	EBR30089901	PCB Assembly,Flexible	1	EBR070500
24	EBR30090001	PCB Assembly,Flexible	1	EBR070501
25	EBR30090101	PCB Assembly,Flexible	1	EBR070502
26	MBL68422801	Cap	1	MBL000000
27	MBL68422901	Cap	1	MBL000002
28	MBL68499401	Cap	1	MBL000001
29	MCK71156501	Cover,Middle	1	MCK049200
30	MCQ70513001	Damper	1	MCQ000000
31	MCQ70513101	Damper	1	MCQ000001
32	MCQ70765301	Damper	1	MCQ000002
33	MDJ66085301	Filter	1	MDJ000001
34	MDJ66164801	Filter	1	MDJ000002
35	MDJ66185101	Filter	1	MDJ000000
36	MDS67390401	Gasket	1	MDS000000
37	MGJ66912301	Plate	1	MGJ000000
38	MHK67391101	Sheet	1	MHK000000
39	MJN71577701	Tape	1	MJN000000
40	MJN71673801	Tape,Window	1	MJN089300



# 13. REPLACEMENT PART LIST

No	Part No	Description	Qty	Location No.
41	EAT64880201	Module,Hybrid Touch LCD	1	EAT130000
42	EBR30093001	PCB Assembly,Flexible	1	EBR070500
43	MCR68228501	Decor	1	MCR000000
44	MEZ68471401	Label,After Service	1	MEZ000900
45	EAB65808601	Receiver	1	EAB010400
46	EAC64518701	Rechargeable Battery,Lithium Polymer	1	EAC020200
47	EAU64843101	Motor,DC	1	EAU010000
48	ACQ91655721	Cover Assembly,Rear	1	ACQ063300
49	ACQ91634621	Cover Assembly,Rear(SVC)	1	ACQ105800
50	EBR30093301	PCB Assembly,Flexible	1	EBR070500
51	EBR30093302	PCB Assembly,Flexible	1	EBR070501
52	EBR30093303	PCB Assembly,Flexible	1	EBR070502
53	EBR30093304	PCB Assembly,Flexible	1	EBR070503
54	MBG67647201	Button,Side	2	MBG071301,MBG071311
55	MBG67686401	Button,Side	1	MBG071300
56	MBG67705801	Button,Side	1	MBG071302
57	MCK71156831	Cover,Rear	1	MCK063300
58	MCQ70513601	Damper	1	MCQ000000
59	MCQ70513701	Damper	1	MCQ000002
60	MCQ70610001	Damper	1	MCQ000001
61	MHK67569901	Antistatic Foaming FPS	1	MHK67569901
62	MJN71829301	Tape,Decor	1	MJN020800
63	MCR68151901	Decor	1	MCR000000
64	MHK67374501	Sheet	1	MHK000000
65	MJN71595101	Tape	1	MJN000000
66	MJN71651601	Tape	1	MJN000001
67	EBD64386201	Sensor,Fingerprint	1	EBD020000
68	MKC67239601	Window,Camera	1	MKC009400
69	EAB65808701	Speaker Module	1	EAB010100
70	EBR30160601	PCB Assembly,Main	1	EBR071900
71	EBP63923301	Front Camera Module	1	EBP000000
72	EBP63943501	Main Camera Module	1	EBP000001
73	EBP63962501	Main Camera Module	1	EBP000002
74	EBR30160701	PCB Assembly,Main,Auto	1	EBR071400
75	EBR30083801	PCB Assembly,Main,Insert	1	EBR071500
76	EAD65826801	Cable,FFC	1	EAD030000
77	MBL68499501	Cap,Earphone Jack	1	MBL025200
78	MBL68499601	Cap	1	MBL000000
79	MCQ70609901	Damper	1	MCQ000000
80	MCQ70766101	Damper	1	MCQ000001

# 13. REPLACEMENT PART LIST

No	Part No	Description	Qty	Location No.
81	MEZ68471401	Label,After Service	1	MEZ000900
82	MHK67569101	Sheet	1	MHK000000
83	RAA34700103	Resin,Epoxy	0.33	RAA100300
84	EBR30160801	PCB Assembly,Main,SMT	1	EBR071800
85	EBR30160901	PCB Assembly,Main,SMT Top	1	EBR071700
86	EAE64621607	Capacitor,Ceramic,Chip	1	C2407
87	EAE64621608	Capacitor,Ceramic,Chip	6	C2302,C2410,C2914,C2923,C3101,C3301
88	EAE64621609	Capacitor,Ceramic,Chip	10	C2105,C2210,C2401,C2413,C2416,C2806,C2922,C2958,C2959,C3304
89	EAE64621613	Capacitor,Ceramic,Chip	5	C2102,C2202,C2256,C2306,C2711
90	EAE64621614	Capacitor,Ceramic,Chip	5	C2301,C2303,C2304,C2903,C2912
91	EAE64621615	Capacitor,Ceramic,Chip	3	C2915,C2957,C2960
92	EAE64621618	Capacitor,Ceramic,Chip	3	C2609,C2726,C2728
93	EAE64621619	Capacitor,Ceramic,Chip	35	C1100,C1104,C1107,C1111,C1112,C1113,C1115,C1116,C1117,C1118,C1123,C1125,C1126,C1202,C1279,C1727,C2402,C2403,C2404,C2405,C2408,C2409,C2411,C2412,C2414,C2418,C2419,C2420,C2608,C2905,C2907,C2908,C2913,C2916,C3302
94	EAE64621621	Capacitor,Ceramic,Chip	2	C2232,C6235
95	EAE64621624	Capacitor,Ceramic,Chip	29	C1101,C1102,C1103,C1105,C1114,C1119,C1120,C1121,C1122,C1124,C1200,C1211,C1277,C1726,C2415,C2417,C2904,C2906,C2920,C2921,C2926,C2927,C2930,C2931,C2968,C3107,C3108,C3201,R3113
96	EAE64621627	Capacitor,Ceramic,Chip	1	C2707
97	EAE64621629	Capacitor,Ceramic,Chip	9	C2500,C2502,C2606,C2610,C2614,C2615,C3200,C3202,C3203
98	EAE64621637	Capacitor,Ceramic,Chip	2	C2902,C2961
99	EAE64741901	Capacitor,Ceramic,Chip	2	C2729,C2730
100	EAE65943601	Capacitor,Ceramic,Chip	8	C2000,C2001,C2003,C2005,C2300,C2623,C2624,C4565
101	EAE65944001	Capacitor,Ceramic,Chip	1	C2200
102	EAE65944401	Capacitor,Ceramic,Chip	1	C2204
103	EAE65962801	Capacitor,Ceramic,Chip	1	C2910
104	EAE65962901	Capacitor,Ceramic,Chip	3	C2112,C2607,C2613
105	EAE65963701	Capacitor,Ceramic,Chip	4	C2101,C2201,C2228,C2229
106	EAE65963801	Capacitor,Ceramic,Chip	1	C2104
107	EAE65968201	Capacitor,Ceramic,Chip	1	C2113
108	EAE65984901	Capacitor,Ceramic,Chip	2	C2521,C2522
109	EAE65985301	Capacitor,Ceramic,Chip	1	C2213
110	EAE65985501	Capacitor,Ceramic,Chip	3	C2230,C2231,C2712
111	EAE65985701	Capacitor,Ceramic,Chip	1	C2103
112	EAE65985801	Capacitor,Ceramic,Chip	4	C2100,C2227,C2709,C2714
113	EAE66002101	Capacitor,Ceramic,Chip	1	C4566
114	EAE66002301	Capacitor,Ceramic,Chip	2	C2305,C2710
115	EAE66203701	Capacitor,Ceramic,Chip	2	C2722,C2727
116	EAE66204701	Capacitor,Ceramic,Chip	1	D2801
117	EAG66490901	Socket,Card	1	J3101
118	EAG66510901	Jack,Phone	1	J2500
119	EAG66511301	Socket,Card	1	J3100
120	EAG66710501	Connector,BtoB	1	J3000

# 13. REPLACEMENT PART LIST

No	Part No	Description	Qty	Location No.
121	EAH63632501	Diode,Schottky	1	D2200
122	EAH63632609	Diode,TVS	1	D3201
123	EAH63632611	Diode,TVS	1	D2113
124	EAH63973101	Diode,TVS	2	D3200,D3203
125	EAM64310108	Filter,Bead	1	B2506
126	EAM65471201	Filter,Bead	3	B2507,B2701,B2702
127	EAM65513101	Filter,Bead	2	B2502,B2504
128	EAM65531401	Filter,Bead	1	B2201
129	EAN64507101	IC,Gyro Sensor	1	U3302
130	EAN64989701	IC,Audio ADC	1	U2701
131	EAN65969501	IC,DC,DC Converter	1	U2203
132	EAN65971101	IC,PMIC	1	U2000
133	EAN65980601	IC,MCP,eMMC	1	U2400
134	EAN65988501	IC,D/A Converter	1	U2301
135	EAN65996501	IC,Capacitive Touch Sensor	1	U4509
136	EAN66008101	IC,LDO Voltage Regulator	2	U2900,U2902
137	EAN66008201	IC,LDO Voltage Regulator	1	U2300
138	EAN66009601	IC,Digital Baseband Processor,4G	1	U1200
139	EAN66249101	IC,LDO Voltage Regulator	1	U2903
140	EAN66249201	IC,LDO Voltage Regulator	1	U2901
141	EAN66249301	IC,Geomagnetic Sensor	1	U3301
142	EAP63926039	Inductor,Multilayer,Chip	3	L4576,L5107,R6017
143	EAP64966701	Inductor,Wire Wound,Chip	1	L2100
144	EAP65007501	Inductor,Multilayer,Chip	2	R2612,R2613
145	EAP65025901	Inductor,Wire Wound,Chip	1	L2300
146	EAP65026001	Inductor,Wire Wound,Chip	1	L2200
147	EAP65027001	Inductor,Multilayer,Chip	1	L2201
148	EAP65226501	Inductor,Multilayer,Chip	2	L2702,L2703
149	EAV64792501	LED,Chip	1	D3206
150	EAX69143401	PCB,Main	1	EAX010000
151	EBC64155601	Resistor,Chip	1	R2103
152	EBC64155603	Resistor,Chip	2	R1701,R2706
153	EBC64155605	Resistor,Chip	8	B2603,B2604,R2204,R2512,R2527,R2604,R3204,R3205
154	EBC64155608	Resistor,Chip	16	R1322,R1323,R1325,R1328,R2201,R2820,R2841,R2842,R2904,R2905,R2928,R3208,R3303,R4536,R4545,R4546
155	EBC64155613	Resistor,Chip	1	R1501
156	EBC64155622	Resistor,Chip	2	R2400,R2401
157	EBC64155623	Resistor,Chip	15	R1305,R1307,R1310,R1311,R1312,R1317,R1319,R1321,R2205,R2206,R2705,R2910,R2913,R2914,R3305
158	EBC64155625	Resistor,Chip	1	R2000
159	EBC64155627	Resistor,Chip	16	R1302,R1303,R2106,R2306,R3003,R3112,R3117,R3201,R3202,R3203,R3206,R3401,R3402,R3403,R3404,R3405
160	EBC64155628	Resistor,Chip	1	R4541

# 13. REPLACEMENT PART LIST

No	Part No	Description	Qty	Location No.
161	EBC64155635	Resistor,Chip	1	R1205
162	EBC65376301	Resistor,Chip	1	R2301
163	EBC65376401	Resistor,Chip	1	R2101
164	EBC65376701	Resistor,Chip	1	R2302
165	EBC65376801	Resistor,Chip	1	R2303
166	EBC65376901	Resistor,Chip	1	R2104
167	EBC65396601	Resistor,Chip	1	R2107
168	EBC65397701	Resistor,Chip	1	R2300
169	EBC65415801	Resistor,Chip	2	R2508,R2509
170	EBC65416101	Resistor,Chip	2	R2510,R2511
171	EBC65416701	Resistor,Chip	1	R2108
172	EBC65416801	Resistor,Chip	1	R1400
173	EBC65436101	Resistor,Chip	3	R4542,R4544,R6012
174	EBC65436501	Resistor,Chip	2	R3101,R3115
175	EBC65436901	Resistor,Chip	2	R2703,R2704
176	EBC65437001	Resistor,Chip	12	R3102,R3106,R3107,R3110,R3116,R3118,R3119,R3124,R3125,R3126,R3127,R3128
177	EBC65636701	Resistor,Chip	1	R2902
178	EBC65636801	Resistor,Chip	1	R2901
179	EBG63025701	Thermistor,NTC	1	NTC1502
180	MBK66155201	Can,Shield	1	SH3401
181	MBK66213501	Can,Shield	1	SH3408
182	MBK66233701	Can,Shield	1	SH3400
183	MBV64381801	Clip	17	ANT3202,ANT3203,ANT3204,ANT3205,ANT3206,ANT3207,ANT3208,ANT3209,ANT4517,ANT4519,ANT4520,ANT4521,ANT4522,ANT4523,ANT4524,ANT4525,ANT4526
184	MBV64602401	Clip	9	ANT2701,ANT2702,ANT3301,ANT3302,ANT3303,ANT3304,ANT3306,ANT4516,ANT4518
185	EBR30161001	PCB Assembly,Main,SMT Bottom	1	EBR071600
186	EAB65808501	Microphone,Condenser	2	U2600,U2601
187	EAE64621607	Capacitor,Ceramic,Chip	8	C1000,C1001,C1014,C1015,C1018,C1020,C1044,C1701
188	EAE64621608	Capacitor,Ceramic,Chip	13	C1052,C1702,C1718,C1719,C1721,C1724,C1904,C1905,C2512,C4000,C4038,C4144,C5110
189	EAE64621609	Capacitor,Ceramic,Chip	10	C1034,C1035,C1049,C1605,C1703,C1722,C1723,C1903,C5022,C5026
190	EAE64621611	Capacitor,Ceramic,Chip	2	C2625,C2626
191	EAE64621613	Capacitor,Ceramic,Chip	6	C1601,C1602,C1604,C4120,C4205,C4238
192	EAE64621614	Capacitor,Ceramic,Chip	2	C1055,C1700
193	EAE64621616	Capacitor,Ceramic,Chip	1	C4225
194	EAE64621618	Capacitor,Ceramic,Chip	6	C2611,C4224,C4308,C4330,C4396,L4207
195	EAE64621619	Capacitor,Ceramic,Chip	10	C1042,C1043,C1045,C1046,C1106,C1720,C1800,C1811,C2400,C2612
196	EAE64621621	Capacitor,Ceramic,Chip	9	C4100,C4119,C4133,C4158,C4242,C4311,C4313,C5024,C5027
197	EAE64621622	Capacitor,Ceramic,Chip	3	C2546,C5113,C5118
198	EAE64621624	Capacitor,Ceramic,Chip	48	C1003,C1004,C1005,C1006,C1007,C1008,C1010,C1012,C1017,C1019,C1021,C1023,C1025,C1027,C1028,C1029,C1040,C1047,C1048,C1050,C1051,C1053,C1054,C1056,C1704,C1705,C1710,C1711,C1712,C1713,C1714,C1715,C1716,C1717,C1725,C1810,C1900,C1901,C1902,C2510,C2511,C2803,C2804,C5007,C5019,C5121,C5126,C5127
199	EAE64621625	Capacitor,Ceramic,Chip	1	C5018
200	EAE64621626	Capacitor,Ceramic,Chip	14	C3002,C3003,C4114,C4157,C4202,C4278,C4284,C4310,C4321,C4377,C4397,C5000,C5001,C5124

# 13. REPLACEMENT PART LIST

No	Part No	Description	Qty	Location No.
201	EAE64621627	Capacitor,Ceramic,Chip	1	C4241
202	EAE64621629	Capacitor,Ceramic,Chip	33	C2506,C2508,C2600,C2603,C3006,C4113,C4135,C4175,C4176,C4211,C4219,C4230,C4239,C4243,C4266,C4275,C4285,C4336,C4337,C4344,C4348,C4379,C4385,C4586,C5133,C6215,C6239,L4268,R4229,R4230,R4238,R4332,R4552
203	EAE64621631	Capacitor,Ceramic,Chip	11	C4505,C4506,C4538,C4558,C4563,C4564,C4599,C5112,C5119,C6237,C6238
204	EAE64621633	Capacitor,Ceramic,Chip	5	C4115,C4116,C4168,C4282,L4538
205	EAE64621635	Capacitor,Ceramic,Chip	3	C4142,C4146,C4541
206	EAE64621637	Capacitor,Ceramic,Chip	2	C5030,C5031
207	EAE64621639	Capacitor,Ceramic,Chip	2	C4227,C4521
208	EAE64621640	Capacitor,Ceramic,Chip	1	C4108
209	EAE64707901	Capacitor,Ceramic,Chip	3	C4126,C4128,C6240
210	EAE65182401	Capacitor,Ceramic,Chip	3	C4105,C4276,L4213
211	EAE65943401	Capacitor,Ceramic,Chip	1	C5105
212	EAE65943501	Capacitor,Ceramic,Chip	3	C5023,C5033,C5054
213	EAE65943601	Capacitor,Ceramic,Chip	5	C1600,C1802,C1809,C2801,C2802
214	EAE65944001	Capacitor,Ceramic,Chip	2	C5021,C5032
215	EAE65962801	Capacitor,Ceramic,Chip	7	C4255,C4324,C4355,C5002,C5011,C5013,C5016
216	EAE65962901	Capacitor,Ceramic,Chip	21	C2110,C2507,C2602,C2800,C2821,C2822,C4143,C4162,C4170,C4214,C4215,C4217,C4234,C4235,C4250,C4504,C4557,C4562,C5101,C5109,C5122
217	EAE65963001	Capacitor,Ceramic,Chip	6	C1032,C1038,C1039,C4140,C4141,C4161
218	EAE65963101	Capacitor,Ceramic,Chip	6	C4006,C4007,C4034,C4035,C4036,C4037
219	EAE65963201	Capacitor,Ceramic,Chip	2	C3001,C5100
220	EAE65963401	Capacitor,Ceramic,Chip	2	C1906,C2509
221	EAE65963801	Capacitor,Ceramic,Chip	3	C1707,C1708,C2108
222	EAE65963901	Capacitor,Ceramic,Chip	1	C3000
223	EAE65985201	Capacitor,Ceramic,Chip	2	C5009,C5010
224	EAE65985301	Capacitor,Ceramic,Chip	4	C5003,C5012,C5014,C5015
225	EAE65985501	Capacitor,Ceramic,Chip	5	C1603,C1606,C1709,C5017,C5025
226	EAE66001901	Capacitor,Ceramic,Chip	1	C6216
227	EAE66002201	Capacitor,Ceramic,Chip	3	C4173,C4174,C4223
228	EAE66002301	Capacitor,Ceramic,Chip	2	C1803,C1804
229	EAE66204601	Capacitor,Ceramic,Chip	3	C4256,C5130,L4114
230	EAG65511701	Connector,RF	2	J4303,J4500
231	EAG66471201	Connector,BtoB	2	J2902,J2903
232	EAG66471901	Connector,Terminal Block	1	J2100
233	EAG66490801	Connector,BtoB	1	J2801
234	EAG66511001	Connector,BtoB	1	J2900
235	EAG66710601	Connector,BtoB	1	J2800
236	EAH63632611	Diode,TVS	1	D2101
237	EAH63973101	Diode,TVS	2	D2504,D3001
238	EAH64793701	Diode,TVS	1	D2100
239	EAH64793901	Diode,TVS	2	D3002,D3003
240	EAH64838101	Diode,TVS	1	D3004

# 13. REPLACEMENT PART LIST

No	Part No	Description	Qty	Location No.
241	EAM64852501	Diode,Schottky	1	D1800
242	EAM64290112	Filter,Saw	1	FL4317
243	EAM64310103	Filter,Bead	3	B2501,B2505,B5100
244	EAM64310108	Filter,Bead	1	B2500
245	EAM64310201	Filter,Ceramic	1	Z3001
246	EAM64670801	Filter,Saw	1	U5100
247	EAM65471201	Filter,Bead	2	R2501,R2605
248	EAM65471901	Filter,Saw	1	DUP4203
249	EAM65472301	Filter,Duplexer	1	DIP4300
250	EAM65495201	Filter,Separator,Switch	2	SW4510,SW4521
251	EAM65495601	Filter,Duplexer	1	DUP4207
252	EAM65497901	Filter,Saw	1	U5103
253	EAM65513101	Filter,Bead	1	B2503
254	EAM65513201	Filter,Separator,Switch	1	SW4300
255	EAM65513501	Filter,Saw	1	FL4305
256	EAM65513601	Filter,Duplexer	1	DUP4217
257	EAM65521601	Filter,Separator,Switch	5	J4201,J4203,J4300,J4501,J5100
258	EAM65531901	Filter,Separator,Switch	2	SW4301,SW4307
259	EAM65532601	Filter,Saw	2	FL4208,FL4308
260	EAM65532701	Filter,Saw	1	FL4302
261	EAM65533001	Filter,Duplexer	1	DUP4230
262	EAM65533101	Filter,Duplexer	1	DUP4205
263	EAM65550301	Filter,Saw	1	DUP4208
264	EAM65732501	Filter,Saw	1	U4303
265	EAM65732601	Filter,Saw	2	FL4207,FL4307
266	EAM65732701	Filter,Saw	2	LPF4202,U4300
267	EAM65733001	Filter,Saw	1	U6004
268	EAM65733101	Filter,Saw	1	FL4341
269	EAM65733401	Filter,Saw	1	DUP4202
270	EAM65733501	Filter,Saw	1	U5101
271	EAM65733601	Filter,Saw	1	DUP4200
272	EAM65969301	IC,RF Amplifier	2	LNA4208,LNA4305
273	EAM65969401	IC,RF Amplifier	1	U4103
274	EAM65970001	IC,WiFi	1	U5102
275	EAM65988301	IC,RF Transceiver,4G	1	U4000
276	EAM66007501	IC,RF Amplifier	3	LNA4207,LNA4307,U4104
277	EAM66008101	IC,LDO Voltage Regulator	1	U2800
278	EAM66008301	IC,PMIC	1	U1600
279	EAM66008602	IC,NFC	1	U5001
280	EAM66028201	IC,RF Amplifier	1	LNA4201

# 13. REPLACEMENT PART LIST

No	Part No	Description	Qty	Location No.
281	EAN66028401	IC,RF Amplifier	1	U4211
282	EAN66030201	IC,RF Amplifier	1	U5106
283	EAN66086401	IC,Over Voltage Protection	1	U3000
284	EAP63926001	Inductor,Multilayer,Chip	3	L4123,L4219,L4556
285	EAP63926004	Inductor,Multilayer,Chip	1	R4335
286	EAP63926009	Inductor,Multilayer,Chip	4	C4138,C4374,C4395,L4584
287	EAP63926011	Inductor,Multilayer,Chip	1	L4231
288	EAP63926015	Inductor,Multilayer,Chip	3	C4127,L5101,R4237
289	EAP63926019	Inductor,Multilayer,Chip	2	C4129,L4267
290	EAP63926027	Inductor,Multilayer,Chip	7	L4262,L4264,L4551,L4580,L4581,L4589,L5100
291	EAP63926028	Inductor,Multilayer,Chip	2	C4274,R4310
292	EAP63926039	Inductor,Multilayer,Chip	1	L4552
293	EAP64485901	Inductor,Multilayer,Chip	2	R4204,R4274
294	EAP64966701	Inductor,Wire Wound,Chip	2	L1602,L1604
295	EAP64966801	Inductor,Wire Wound,Chip	2	L1600,L1601
296	EAP64967001	Inductor,Multilayer,Chip	6	C4101,C4370,L4121,L4204,L4234,L4526
297	EAP64967201	Inductor,Multilayer,Chip	5	C4349,C4393,L4125,L4309,R5101
298	EAP64986301	Inductor,Wire Wound,Chip	1	L1603
299	EAP64986401	Inductor,Multilayer,Chip	4	C4171,C4507,L4585,R4329
300	EAP64986501	Inductor,Multilayer,Chip	3	L4306,L4312,R4301
301	EAP64986701	Inductor,Multilayer,Chip	4	C4103,C4244,C4354,L4216
302	EAP64986801	Inductor,Multilayer,Chip	6	C4107,C4320,C4342,C4345,L4122,L4214
303	EAP64987401	Inductor,Multilayer,Chip	1	L4504
304	EAP65006301	Inductor,Multilayer,Chip	3	L4261,L4263,L4536
305	EAP65006401	Inductor,Multilayer,Chip	3	L4236,L4300,R4525
306	EAP65006501	Inductor,Multilayer,Chip	2	L4100,R4245
307	EAP65006701	Inductor,Multilayer,Chip	6	C4122,C4334,C4351,L4212,L4217,L4510
308	EAP65007101	Inductor,Multilayer,Chip	3	L4101,L4223,R4315
309	EAP65007201	Inductor,Multilayer,Chip	1	L4124
310	EAP65007301	Inductor,Multilayer,Chip	1	L5102
311	EAP65007501	Inductor,Multilayer,Chip	2	C3007,C3008
312	EAP65007601	Inductor,Multilayer,Chip	1	L2500
313	EAP65026201	Inductor,Multilayer,Chip	3	C4326,L4201,L4215
314	EAP65026301	Inductor,Multilayer,Chip	2	C4213,L4303
315	EAP65026401	Inductor,Multilayer,Chip	2	C4102,L4106
316	EAP65026701	Inductor,Multilayer,Chip	3	L4120,L4265,R5100
317	EAP65026901	Inductor,Multilayer,Chip	2	L5002,L5003
318	EAP65226601	Inductor,Multilayer,Chip	1	C4298
319	EAP65226701	Inductor,Multilayer,Chip	1	C4259
320	EAW64043801	Oscillator,TCXO	1	X1800

# 13. REPLACEMENT PART LIST

No	Part No	Description	Qty	Location No.
321	EAW64063501	Oscillator,TCXO	1	X5000
322	EBC64155605	Resistor,Chip	3	R1809,R5043,R5129
323	EBC64155608	Resistor,Chip	55	C4237,C4254,C4258,C4302,C4304,C4513,C4530,L4507,L4553,L4586,R1802,R1803,R1804,R2503,R2520,R2839,R3001,R4009,R4024,R4025,R4026,R4027,R4028,R4031,R4104,R4109,R4112,R4205,R4207,R4209,R4214,R4215,R4217,R4222,R4231,R4308,R4330,R4333,R4334,R4502,R4514,R4519,R4520,R4521,R4543,R5007,R5010,R5019,R5102,R5104,R5108,R5109,R5128,R6013,R6016
324	EBC64155613	Resistor,Chip	2	R1500,R1505
325	EBC64155616	Resistor,Chip	1	R1600
326	EBC64155627	Resistor,Chip	3	R2805,R2807,R2818
327	EBC64155630	Resistor,Chip	1	R2518
328	EBC65376201	Resistor,Chip	1	R1806
329	EBC65376601	Resistor,Chip	1	R3008
330	EBC65396601	Resistor,Chip	3	R1810,R4264,R4267
331	EBC65396701	Resistor,Chip	2	R4022,R4023
332	EBC65396801	Resistor,Chip	1	R1808
333	EBC65396901	Resistor,Chip	1	R1807
334	EBC65416101	Resistor,Chip	2	R4266,R4268
335	EBC65416201	Resistor,Chip	2	R5017,R5020
336	EBC65416301	Resistor,Chip	1	R1801
337	EBC65416501	Resistor,Chip	1	R4216
338	EBC65436001	Resistor,Chip	1	R4005
339	EBC65436101	Resistor,Chip	3	R2514,R5008,R5027
340	EBC65436201	Resistor,Chip	1	R4030
341	EBC65436301	Resistor,Chip	3	R4283,R4285,R4286
342	EBC65436601	Resistor,Chip	1	R3007
343	EBC65444001	Resistor,Chip	1	R2505
344	EBG63025701	Thermistor,NTC	3	NTC1501,NTC1503,R4029
345	MBK66155301	Can,Shield	1	ANT2601
346	MBK66155401	Can,Shield	1	ANT2600
347	MBK66213601	Can,Shield	1	SH3405
348	MBK66233801	Can,Shield	1	SH3404
349	MBK66233901	Can,Shield	1	SH3403
350	MBK66234001	Can,Shield	1	SH3406
351	MBK66234101	Can,Shield	1	SH3407
352	MBV64381801	Clip	2	ANT5001,ANT5002
353	MBV64602501	Clip	10	ANT4502,ANT4504,ANT4506,ANT4508,ANT4509,ANT4510,ANT4511,ANT4512,ANT4513,ANT4515
354	MBV64602601	Clip	2	ANT2901,ANT2902
355	MEZ65049701	Label	1	MEZ000000
356	RAA34548901	Resin,PC	0.5	RAA100800
357	MDS67355201	Gasket	1	MDS000000
358	FAB34739301	Screw,Machine	20	FAB010001,FAB010002,FAB010003,FAB010004,FAB010005,FAB010006,FAB010007,FAB010008,FAB010009,FAB010010,FAB010011,FAB010012,FAB010013,FAB010014,FAB010015,FAB010016,FAB010017,FAB010018,FAB010019,FAB010020
359	MEZ66675330	Label	1	MEZ000000



# 13. REPLACEMENT PART LIST

No	Part No	Description	Qty	Location No.
360	MEZ68531103	Label,Approval	1	MEZ002100
361	SAD37953701	Software,Mobile	1	SAD010000
362	AAD89735203	Addition Assembly	1	AAD000000
363	AFN79138803	Manual Assembly,Operation	1	AFN053800
364	AAA78331801	Accessory Assembly	1	AAA000000
365	MAF66148201	Bag,Vinyl	1	MAF086500
366	MGJ66924601	Plate	1	MGJ000000
367	MAF65348001	Bag,Vinyl	1	MAF086500
368	MBM66204301	Card,Warranty	1	MBM087200
369	MBM67203003	Card,Quick Reference	1	MBM062600
370	EAD62377927	Cable,Assembly	1	EAD010000
371	*S*EAD62377	Cable,Assembly	1	EAD010000
372	*S*EAD62377	Cable,Assembly	1	EAD010000
373	EAY65068911	Adapters	1	EAY060000
374	*S*EAY65068	Adapters	1	EAY060000
375	*S*EAY65068	Adapters	1	EAY060000
376	MBM67237701	Card	1	MBM000000
377	MFL71520803	Manual,Operation	0	MFL053800
378	MJN71709202	Tape,Protect	1	MJN061100
379	AGF80326501	Package Assembly	1	AGF000000
380	AGJ74858306	Pallet Assembly	1	AGJ000000
381	MAY68349206	Box,Pallet Sleeve	0.00167	MAY115200
382	MAY68528101	Box,Carton	0.00167	MAY010800
383	MBL67797001	Cap,Box	0.00333	MBL007000
384	MGA64099407	Pallet	0.00167	MGA000002
385	MLAJ0004402	Label,Master Box	0.00667	MEZ047200
386	MLAZ0050901	Label	0.00167	MEZ000000
387	MAY68171317	Box,Master	0.1	MAY047100
388	MAY69428601	Box,Unit	1	MAY084001
389	MAY69428603	Box,Unit	1	MAY084002
390	MEZ65773066	Label,Unit Box	1	MEZ084100
391	MEZ67772201	Label,Sealing	1	MEZ067500
392	MFZ66435093	Packing,Blister	1	MFZ005501
393	MHK66230303	Sheet	1	MHK000000
394	MLAJ0004402	Label,Master Box	0.1	MEZ047200

