

# HW Repair Guide

## GT-N5100 (Galaxy Note 8.0)

March, 2013

SAMSUNG

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## 1. Introduction of GALAXY Note 8

## 2. Service Guide

- RF calibration
- IMEI writing
- Block Diagram

## 3. Repair Guide

- Assembly & Disassembly
- Electronic Components
- SMD parts
- Trouble Shooting

## 4. Q&A

# Introduction of GALAXY Note 8.0

- **Specification**

This model is the portable media Tablet device and it has 8 inches size. So, it expected to replace the diary and it has S-pen, S-planner, S-Note, etc.

Item	spec.
AP	1.6GHz Quad Core(Exynos 4412)
OS	Android JB
CP	XMM6262(IMC), HSPA+ 21.1Mbps, HSUPA 5.76Mbps
Supported RF Bands	GSM Quad(850, 900, 1800, 1900), UMTS Quad(850, 900, 1800, 1900)
Internal Memory	16GB NAND + 2GB RAM
External Memory	<b>MicroSD (up to 64GB)</b>
Display	<b>8" TFT (1280 x 800)</b>
Camera	5MP CMOS + 1.3MP CMOS
Sensor	Accelerometer, Magnetic, Proximity, Light, Grip
Connectivity	BT 4.0, Wi-Fi a/b/g/n
GPS	A-GPS + GLONASS
Battery	4600mA

Please download the latest version of RF Calibration program on the PLM System. (Daseul Launcher, Runtime and Model File)

## Run Calibration program

The image shows two screenshots of the DASEUL Launcher software interface. The left screenshot shows the 'DASEUL Launcher Ver 3.0.14' window with a table of launcher status and a list of extract processes. The right screenshot shows the 'Select Sequence Files & Login' dialog box with various sequence file options and a 'Start' button.

**Left Screenshot: DASEUL Launcher Ver 3.0.14**

No.	Processing	Status
1	::: Start Normal Mode :::	Complete

**Select Extract Process**

- Runtime: DASEUL\_Runtime\_Ver\_3.1.64.0.CAB
- SMD F/T
- PBA F/T
- Calibration: GT-N5100\_OPEN\_CALIBRATION\_Ver\_3.1.64.3.CAB
- Final Auto
- Final Manual
- IMEI
- WLAN
- GPS

1. Check the Calibration and select correct file

2. Click the Extract & Run button

**Right Screenshot: Select Sequence Files & Login**

Select The Sequence File

Deploy Path: C:\WDIST\WDASEUL

- SMD F/T
- PBA F/T
- CAL: GT-N5100\_OPEN\_CALIBRATION\_Ver\_3.1.64.3.seq
- CAL 2
- FINAL AUTO
- FINAL AUTO 2
- FINAL MANUAL
- IMEI
- WLAN
- GPS

3. Check the CAL

4. Check and select correct file

5. Click the Start button

**6** Check the Calibration

**7** Check the System Config items

**8** Click the Model Information

**9** Type the correct H/W version

**10** Check the connection port of Phone, MSTs and Power Supply

**11** Click the OK button

Click the Model Information

Click the Hardware Config

Click the OK button

Model Information

Setting Items

Version : MP1,100

Calibration

SVC Option

Make Dummy Set

SAVE

CLOSE

Hardware Component Configuration

Phone

Count: 1

I/F - 1 Type: Serial COM

I/F - 2 Type: N/A

I/F Jig Type: AnyWayJig

Multi Jig Cable Type: UART Line

MSTs

Count: 0

I/F Type: GPIB

Power Supply

Control Type: E3632A

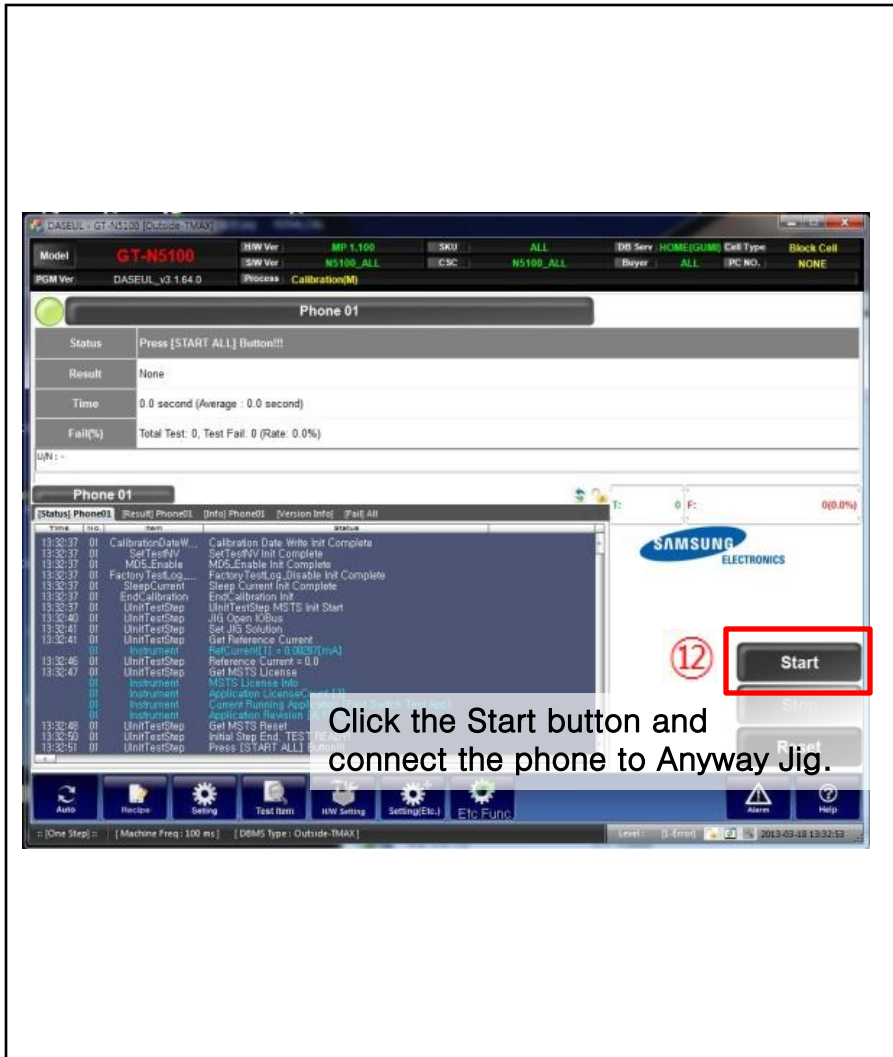
I/F Type: GPIB

SAVE

Cancel







# IMEI Writing (1/3)

Please download the latest version of RF Calibration program on the PLM System. (Daseul Launcher, Runtime and Model File)

Run Daseul program for IMEI writing.

**1** Check the IMEI and select correct file

No.	Processing	Status
1	::: Start Normal Mode :::	Complete

Select Extract Process

- Runtime DASEUL\_Runtime\_Ver\_3.1.63.0.CAB
- SMD F/T
- PBA F/T
- IMEI GT-N5100\_COMMON(CSC16G)\_IMEI\_Ver\_3.1.63.3.CAB
- WLAN
- GPS

Click the Extract & Run button

**2** Extract & Run

**3** Check the IMEI

Select Sequence Files & Login

Select sequence files & the resolution. Change the permission, Join, etc

Select The Sequence File

Deploy Path : C:\DIST\W\DAEUL

- SMD F/T
- PBA F/T
- CAL
- CAL 2
- AUTO FINAL
- AUTO FINAL 2
- IMEI GT-N5100\_COMMON(CSC16G)\_IMEI\_Ver\_3.1.63.3.seq
- MANJAL FINAL
- GPS

Check and select correct file

**4** ...

Permission : Operator

Skip Configuration Dialog

Resolution : 1024 x 768

Change Permission

Exit

**5** Start

Click the Start button



# IMEI Writing (2/3)

**Set System Configuration**

⑥ Check the IMEI Write and IMEI Check

⑦ Check the System Config items

⑧ Click the Hardware Config

⑩ Check the OK button

**Hardware Component Configuration**

⑨ Check the connection port of Phone and Power Supply

The image displays two screenshots of Samsung testing software. The left screenshot is titled 'Set System Configuration' and shows various configuration options. A red box highlights the 'IMEI Write' and 'IMEI Check' checkboxes, with a circled '6' next to it. Another red box highlights the 'System Config.' section, with a circled '7' next to it. A third red box highlights the 'Hardware Config' button, with a circled '8' next to it. A fourth red box highlights the 'OK' button, with a circled '10' next to it. The right screenshot is titled 'Hardware Component Configuration' and shows various hardware settings. A red box highlights the 'Phone' section, with a circled '9' next to it. Another red box highlights the 'Power Supply' section, with a circled '9' next to it.



# IMEI Writing (3/3)

**14** Click the Start button and connect the phone to Anyway Jig.

**11** Type the correct IMEI number

**12** Click the Model Info

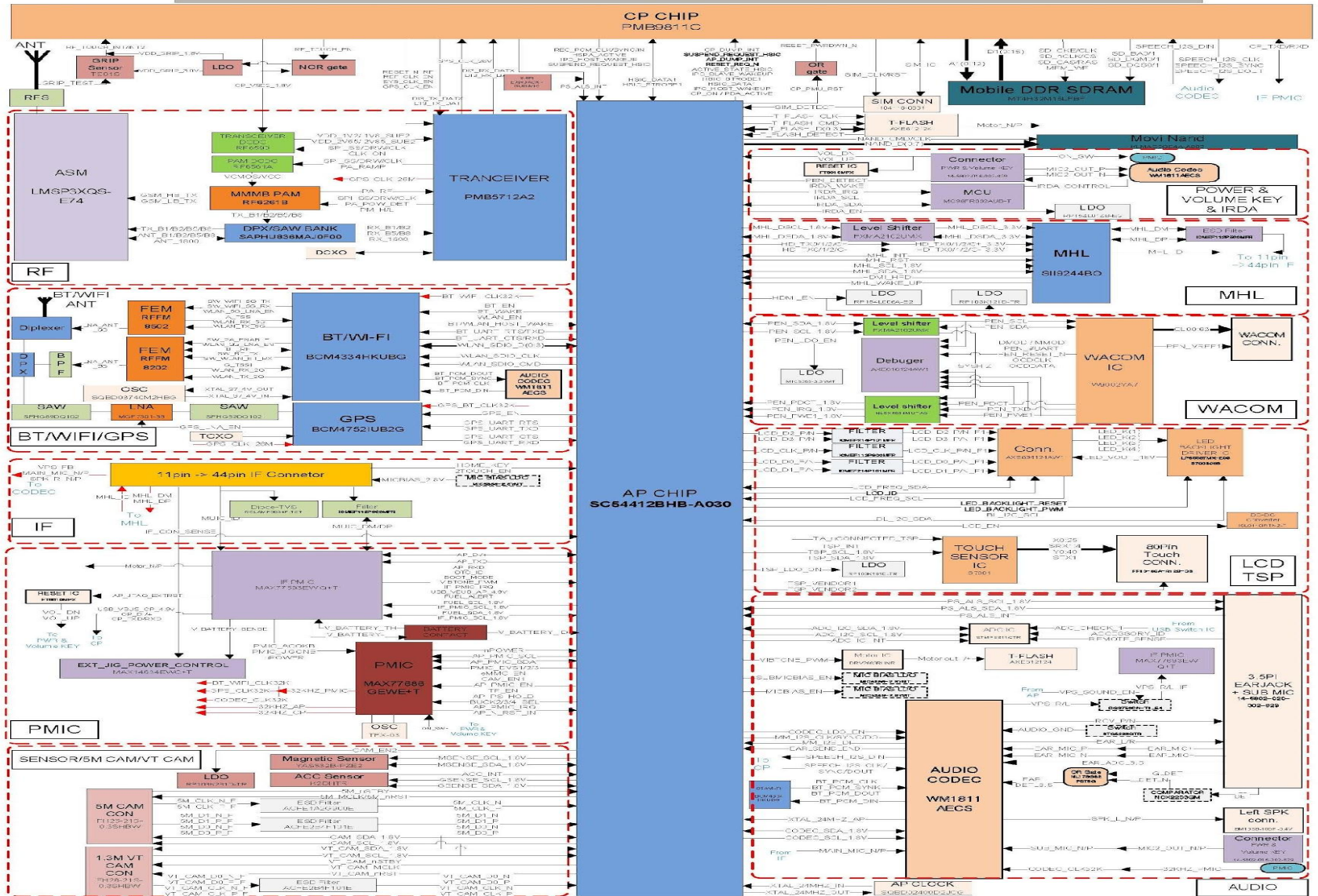
**13** Type the correct Software, Hardware, CSC, PDA and SKU\_CODE etc.

**15** The Status bar is changed to GREEN color if IMEI writing is Passed



# Block Diagram

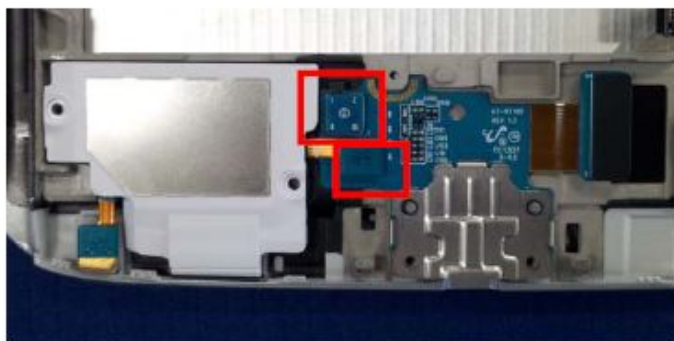
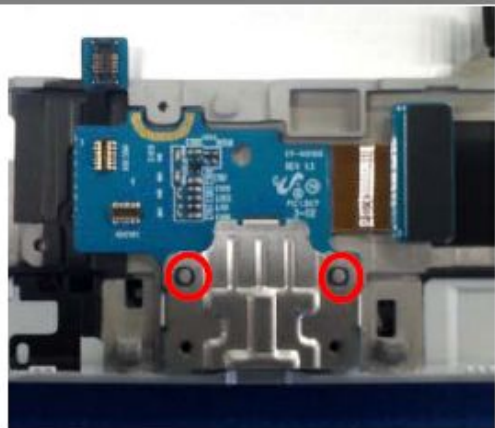
## GT-N5100 BLOCK DIAGRAM





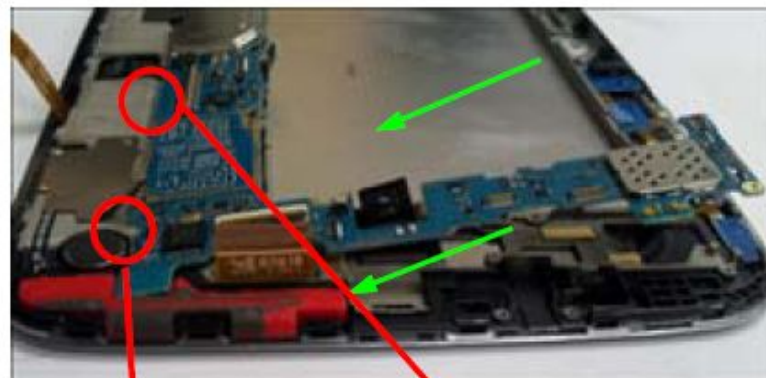
## <Assembly>

1 Assemble IF PCB/SPK on FRONT.



1) Assemble IF PCB and SPK on Front.

2 Assemble PBA



1) Assemble PBA on Front Ass'y  
2) Check Front hook.

3

Assemble connector





4

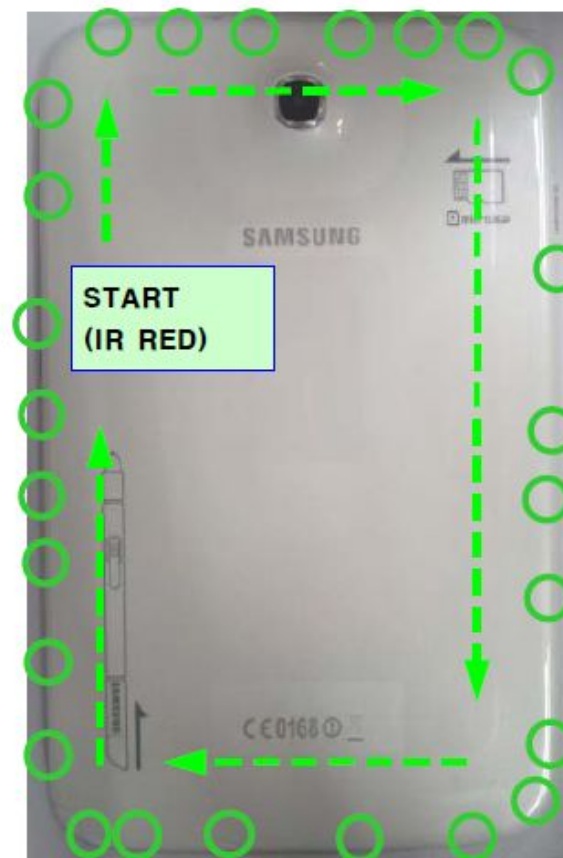
Assemble SCREW



.1) Be careful not to scratch FPCB

- 1)  : 1.4 \* 2.5 (Silver, 6001-002051) 13 point
-  : 1.4 \* 4.0(Black, 6001-001479) 4 point
- 2) Drive Screws with torque 1.2 ± 0.1 Kgf/cm<sup>2</sup>

## 5 Assemble REAR



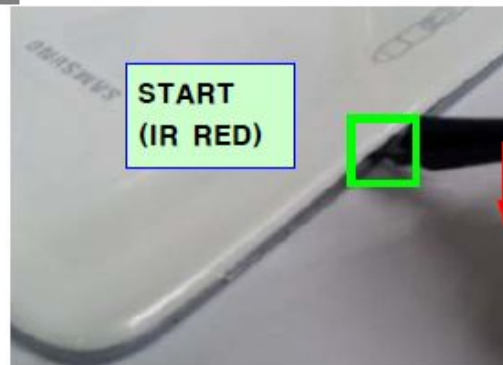
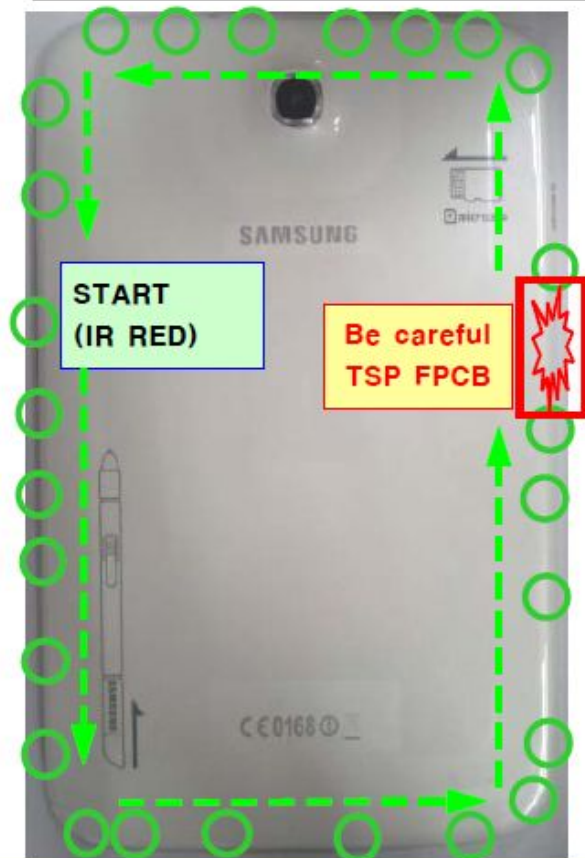
1) Assemble REAR hook



## <Disassembly>

1

Disjoint Hook at REAR // Disassemble REAR



1) Be careful not to make scratch and molding damage!

1) Use flat point of disassembly jig

## 2 Disassemble SCREW



- 1) Disassemble SCREW(17point)
- 2) Detach Battery connector

## 3 Disassemble FPCB



- 1) Hold up Main PBA from bottom.
- 2) Be careful not to scratch FPCB

4

Disassemble SPK(L),(R), IF PCB



5

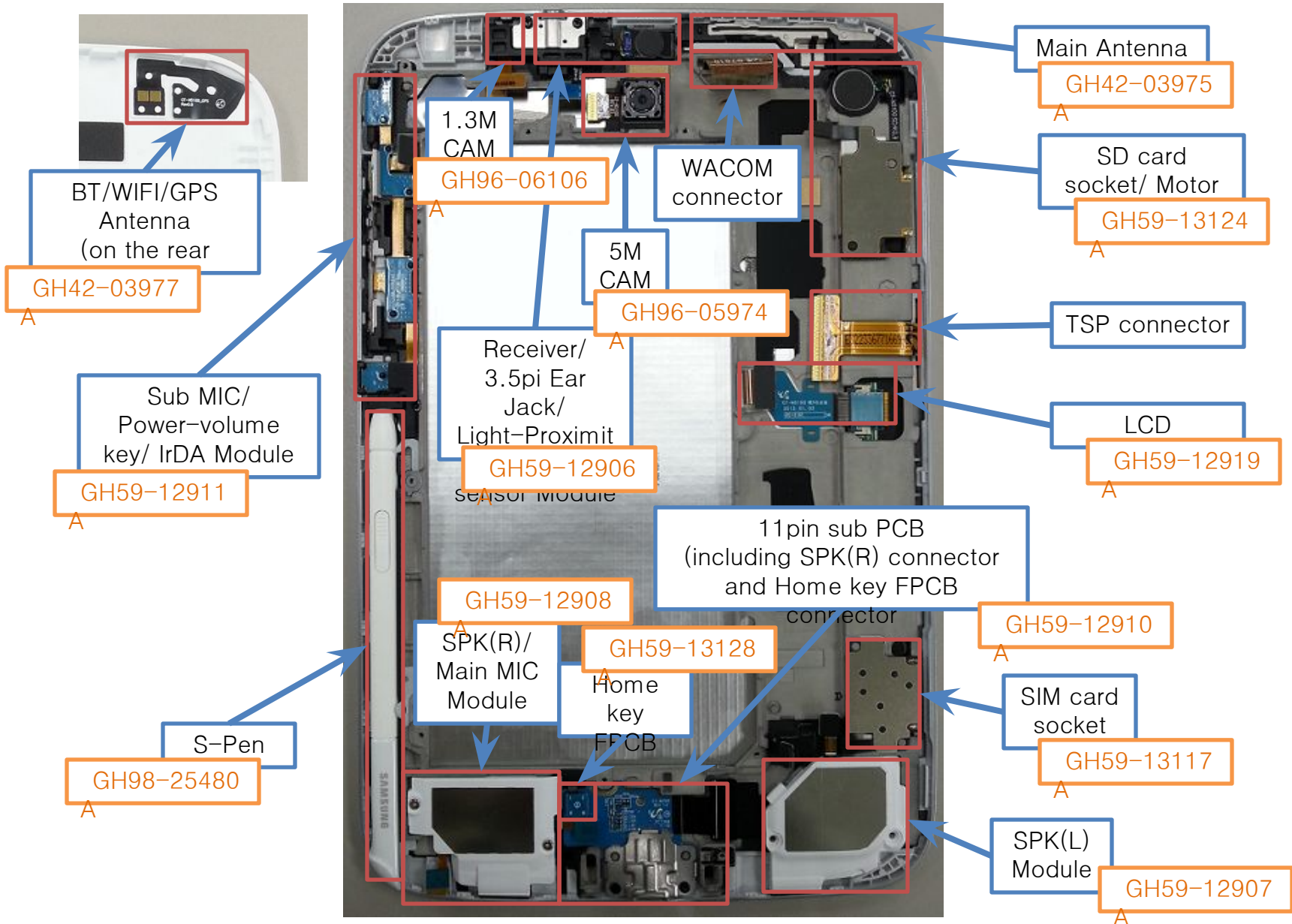
Disassemble PBA



- 1) Hold up Main PBA from FRONT.
- 2) Be careful not to scratch FPCB



# Electronic Components



# SMD parts (TOP side)

Ant100, Ant101  
3712-001375  
Ant. Contact (for GSM, WCDMA)

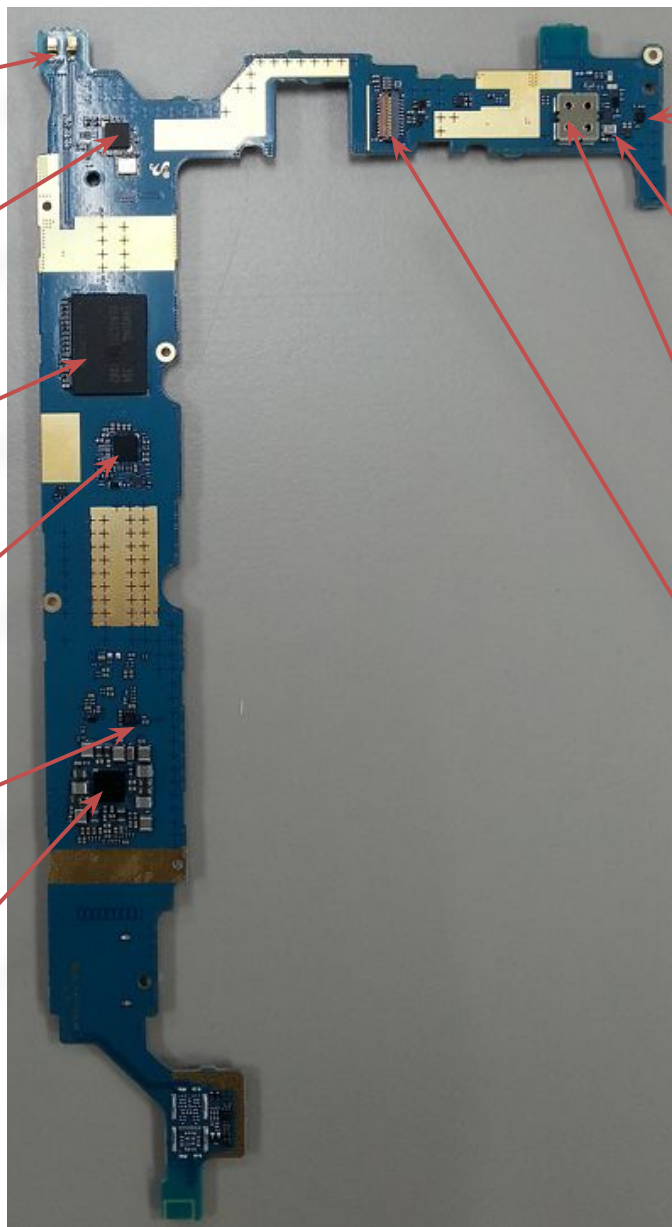
U1001 1204-003387  
IrDA IC

UME600 1107-002190  
MoviNAND

UCD400 1205-004510  
Audio CODEC

U702 1203-006346  
Reset IC

U701 1203-007657  
PMIC



U900 1209-002142  
Magnetic Sensor

OSC200 2805-001098  
Oscillator - 26MHz

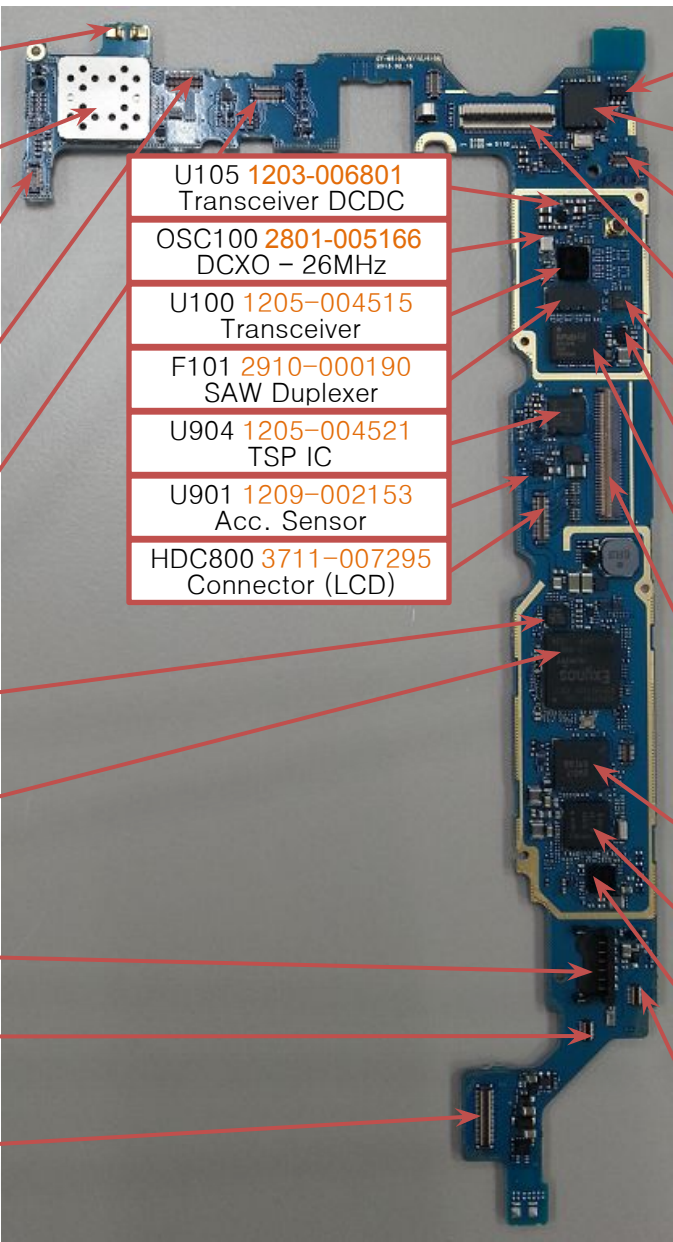
U201 1205-004649  
GPS IC (inside of shield-can)

HDC900 3708-002222  
Connector (5M Camera)



# SMD parts (Bottom side)

- Ant202, Ant203 3712-001375  
Ant. Contact (for BT, WIFI, GPS)
- U203 1205-004598  
Bluetooth & WIFI IC  
(inside of shield-can)
- HDC1000 3711-006923  
Connector(Power & Vol & IrDA)
- HDC901 3711-006925  
Connector (1.3M Camera)
- HDC402 3711-007188  
Connector (Receiver & Ear Jack & Light-Proximity sensor)
- C1013 1205-004233  
MHL IC
- UCP600 0902-002996  
Application Processor
- BTC700 3711-008421  
Connector (Battery)
- HDC300 3711-008347  
Connector (SIM)
- IFC500 3711-006843  
Connector (11pin sub PCB)



- U105 1203-006801  
Transceiver DCDC
- OSC100 2801-005166  
DCXO - 26MHz
- U100 1205-004515  
Transceiver
- F101 2910-000190  
SAW Duplexer
- U904 1205-004521  
TSP IC
- U901 1209-002153  
Acc. Sensor
- HDC800 3711-007295  
Connector (LCD)

- U106 1209-002006  
Grip Sensor IC
- U1008 1205-004674  
WACOM IC
- HDC500 3711-007173  
Connector (SD card & Motor)
- SLC1000 3708-003131  
Connector (WACOM)
- F100 2911-000236  
Antenna Switch Module
- U104 1203-007333  
PAM DCDC
- PAM100 1201-003400  
Power Amplifier Module
- SLC900 3708-002781  
Connector (TSP)
- UME300 1105-002212  
Mobile DDR SDRAM
- UCP300 1205-004511  
Call Processor
- U705 1203-007321  
IF PMIC
- HDC400 3711-008347  
Connector (SPK-L)

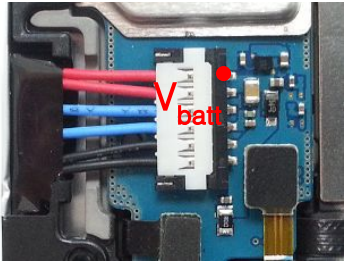




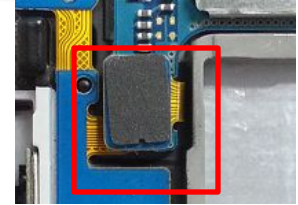
Step	Check point	Result value	Defect point
1	Confirm the defect symptom	-	-
2	Check the battery voltage.	Less than 3.4V	Battery
		More than 3.4V	Go to the next step
3	Check the power-key FPCB.	Abnormal(open, tear, etc)	Power-key FPCB
		Normal	Go to the next step
4	Power on the device and check the power-on sound or motor vibration.	Abnormal	Front Ass'y
		Normal	Go to the next step
5	Check the voltage of the following chips (C755, C754, C727, C736, AP_PS_HOLD(TP))	C755>1.35V, C754>2.0V, C727>1.0V, C736>1.95V AP_PS_HOLD(TP) > 1.8V	Go to the next step
		If not the correct value	PMIC (U701)
6	Check the frequency of OSC700(C705)	32KHz	Main chip (UCP600)
		If not the correct value	TCXO (OSC700)

# Power problem

Step2

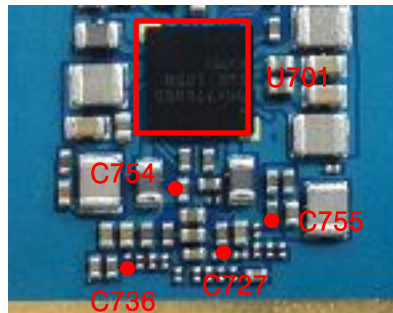
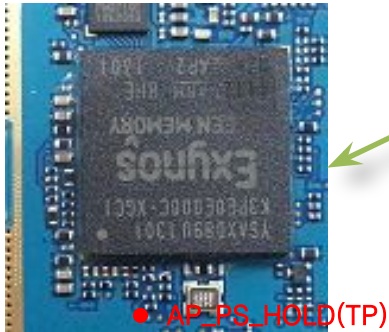


Step3

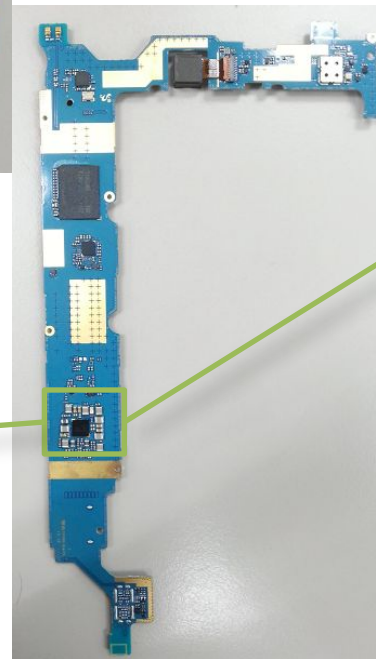
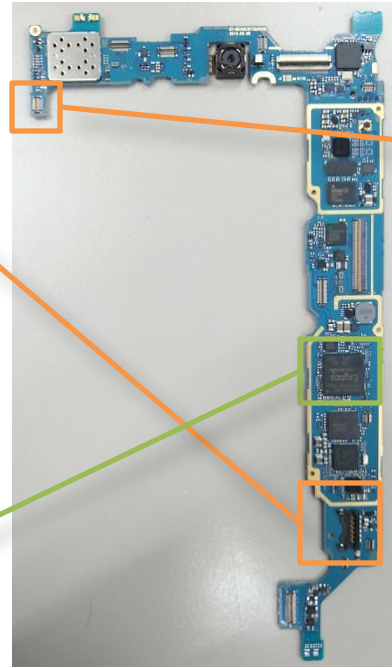
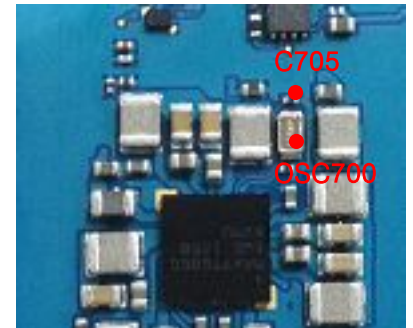


Check the power-key FPCB

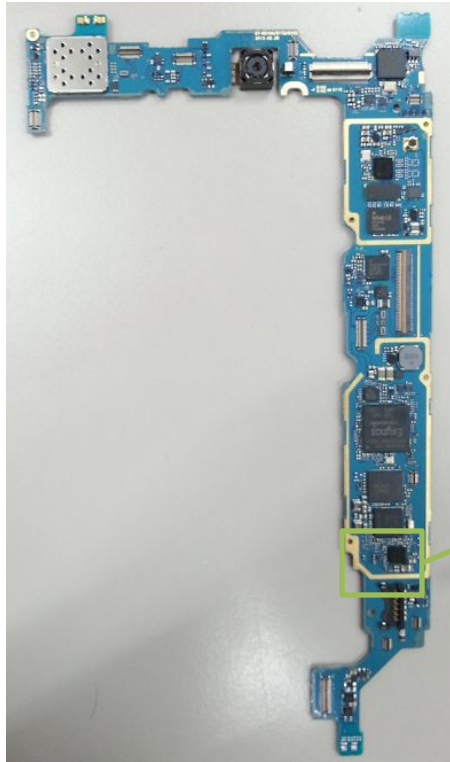
Step5



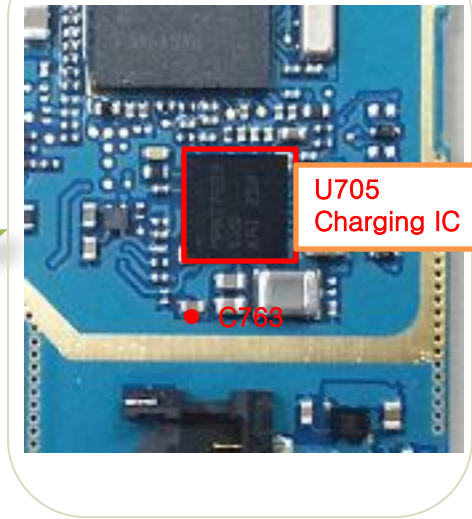
Step6



Step	Check point	Result value	Defect point
1	Confirm the defect symptom	-	-
2	Check the voltage of V_BUS(C763).	C763 = 5V	Go to the next step
		If not the correct value	Connection status of TA or USB.
3	Check the charging operating of battery.	Abnormal	Charging IC(U705)
		Normal	-



Step2, 3



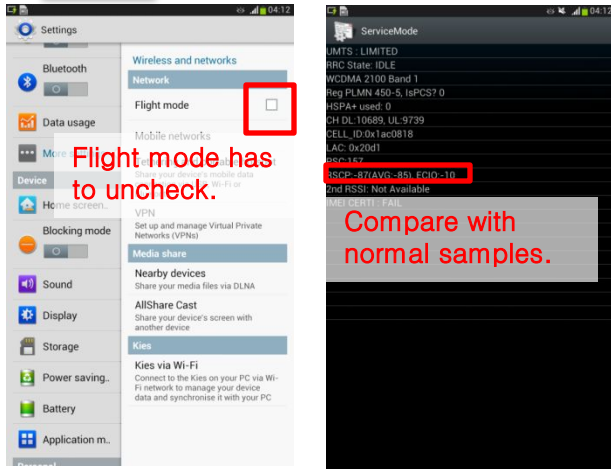
U705  
Charging IC

C763

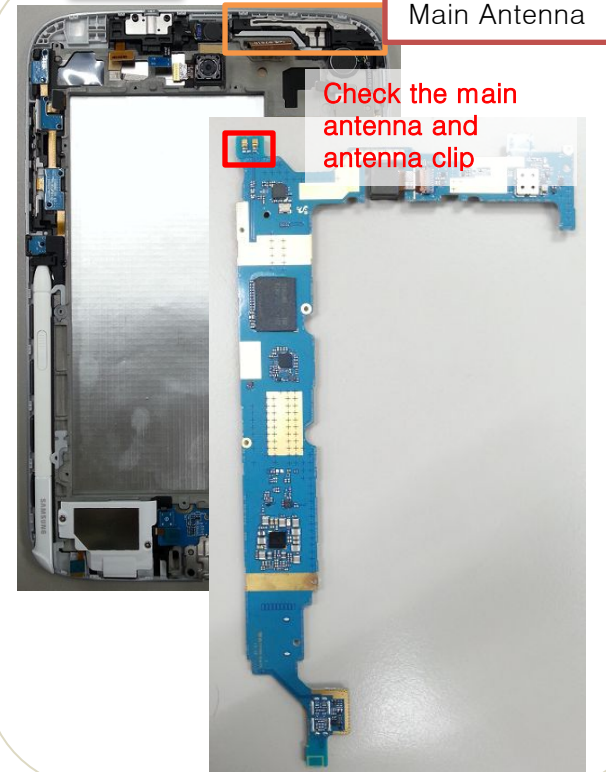
Step	Check point	Result value	Defect point
1	Confirm the defect symptom (Make a call, check the debug screen *#0011# )	-	-
2	Check the settings (airplane mode, Mobile networks)	Abnormal	Settings
		Normal	Go to the next step
3	Check the status of main ANT and Antenna clip	Broken, dust, corrosion No insert	Main ant, Antenna Clip
		Normal	Go to the next step
4	Check the status(crack, missing, Corrosion..etc) of RF components.  F100(Antenna Switch Module) F101(SAW Duplexer) PAM100(Power Amplifier Module) ANT100, ANT101(Antenna contact clip) U100(Transceiver) OSC100(DCXO)	Abnormal status (compared with a good PBA)	RF components.
		Normal status (compared with a good PBA)	CP(Call Processor) (UCP300)



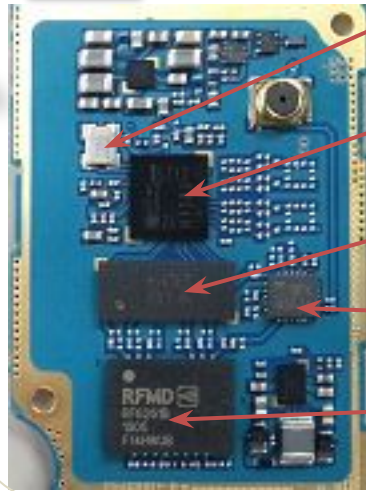
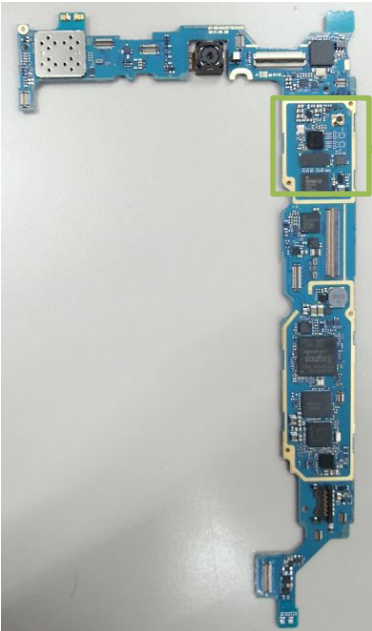
## Step2



## Step3



## Step4



- OSC100  
DCXO - 26MHz
- U100  
Transceiver
- F101  
SAW Duplexer
- F100  
ASM
- PAM100  
PAM

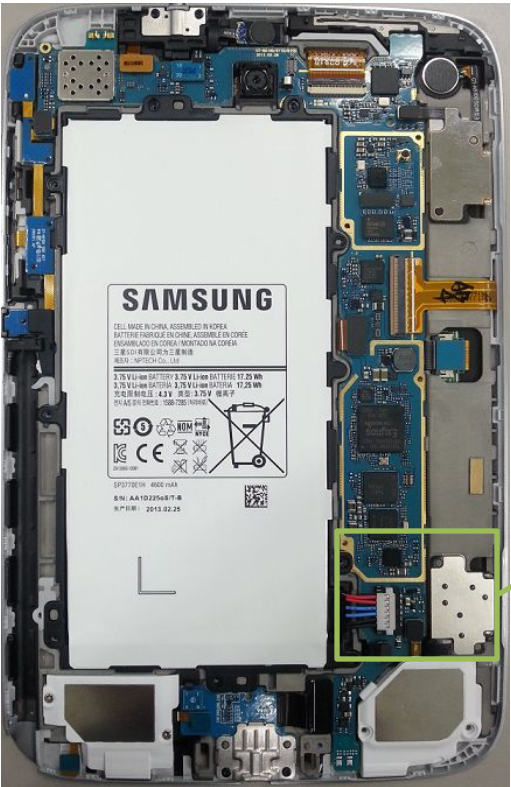


# SIM card detection problem

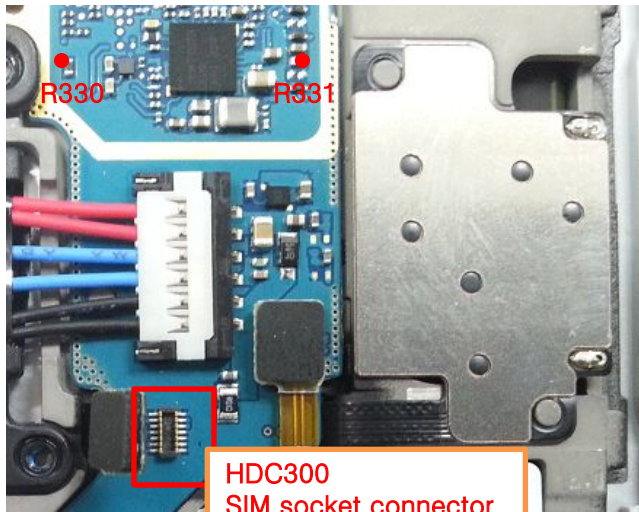
Step	Check point	Result value	Defect point
1	Confirm the defect symptom	-	-
2	Check the SIM socket & Connector(HDC300)	Broken, dust, corrosion	SIM socket or Connector
		Normal	Go to the next step
3	Check the voltage of detection pin (R330) <i>Notice. It should be measured when the phone is started</i>	R330 = 1.8V	Go to the next step
		If not the correct value	SIM Card
4	Check the voltage of SIM (R331) <i>Notice. It should be measured when the phone started</i>	R331 = 3V	PBA
		If not the correct value	CP(UCP300)



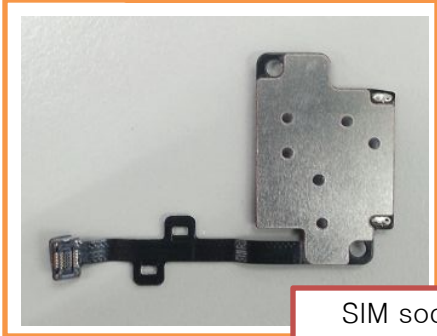
# SIM card detection problem



Step2, 3, 4



HDC300  
SIM socket connector



SIM socket



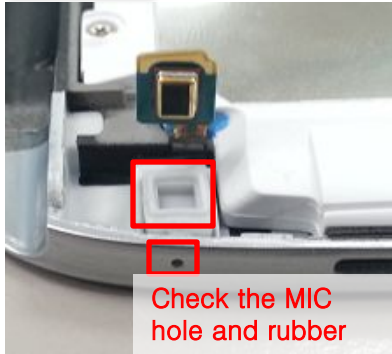
# Microphone Problem

Step	Check point	Result value	Defect point
1	Confirm the defect symptom	-	-
2	Check the microphone hole	Dust	Clean the hole
		Normal	Go to the next step
3	Check the microphone rubber	Wrong insert	Re-insert
		Normal	Go to the next step
4	Check the MIC FPCB status	Abnormal	Speaker(R)-MIC module
		Normal	Go to the next step
5	Check the voltage of C413 Notice. It should be measured when the microphone path is activated on	2.8V	Go to the next step
		If not the correct value	MIC LDO(U401)
6	Check the signal of C418, C419 Notice. It should be measured when the microphone path is activated on	Same signal compared with a good PBA	Microphone
		If not the correct value	AUDIO CODEC(UCD400)

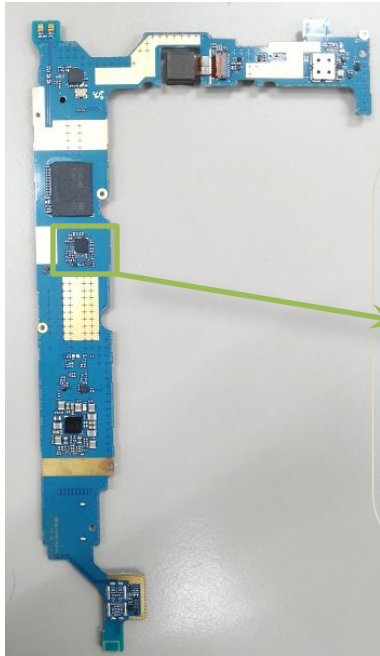
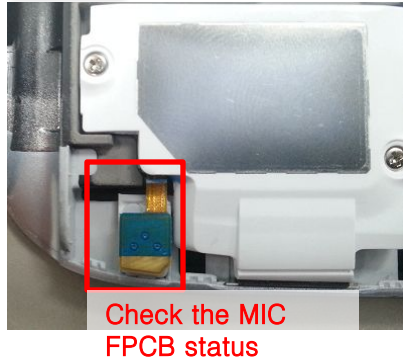


# Microphone Problem

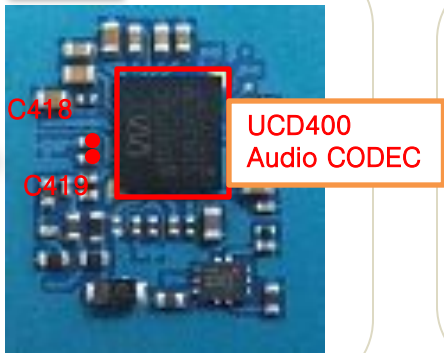
Step2, 3



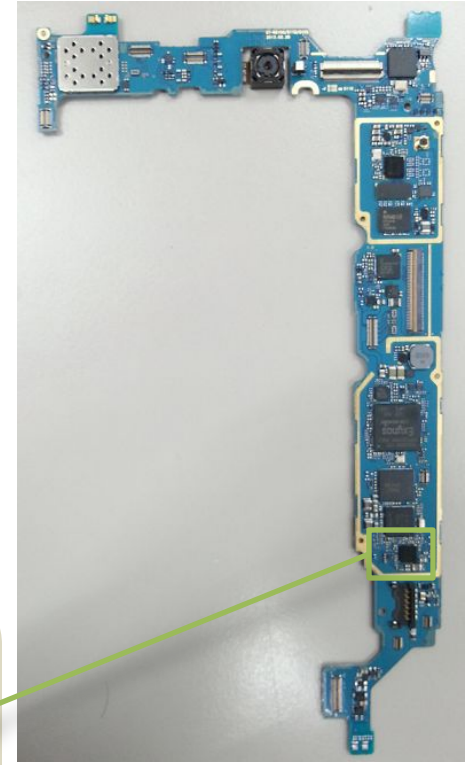
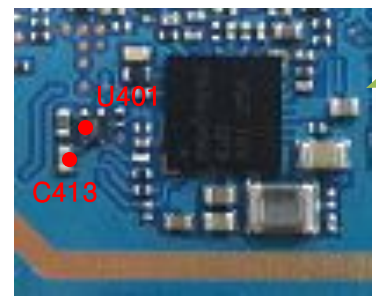
Step4



Step6



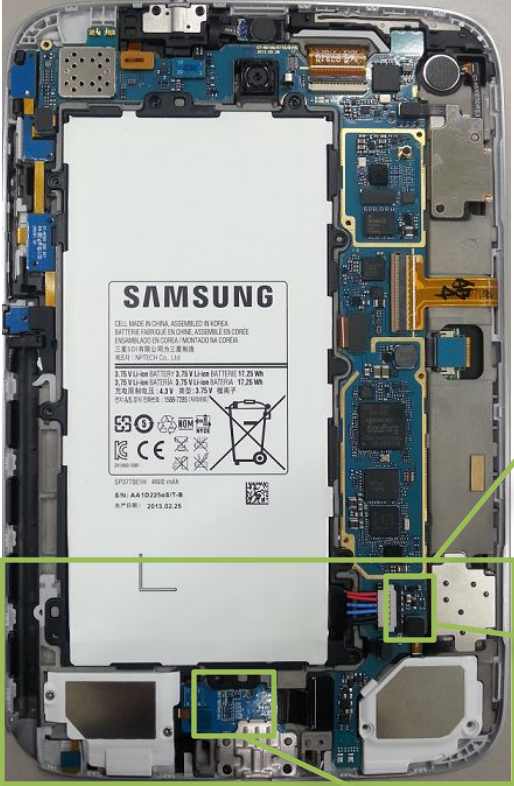
Step5



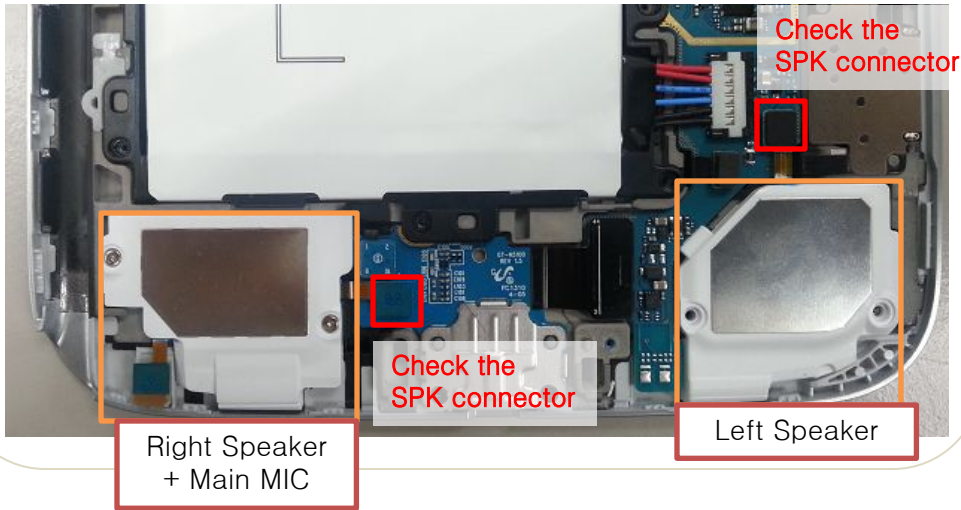
Step	Check point	Result value	Defect point
1	Confirm the defect symptom	-	-
2	Make a factory reset (*2767*3855#)	Solved	Setting error
		Not solved	Go to the next step
3	Check the speaker connector (HDC400(L) in Main PCB, HDC101(R) in Sub PCB)	Broken, dust, corrosion	Speaker connector
		Normal	Go to the next step
4	Replace the speaker module	Solved	speaker
		Not solved	Go to the next step
5	Check the signals on L406, L407 of Left Speaker in main PCB, C105, C106 of Right Speaker in Sub PCB.  Notice. It should be measured when the speaker path is activated on	Same signal compared with a good PBA	Speaker
		If not the correct value	Audio Codec (UCD400)



# Speaker Problem



Step3



Step5



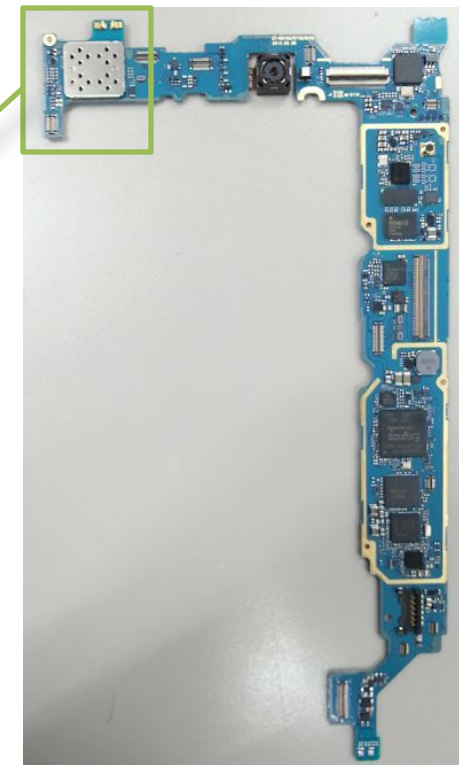
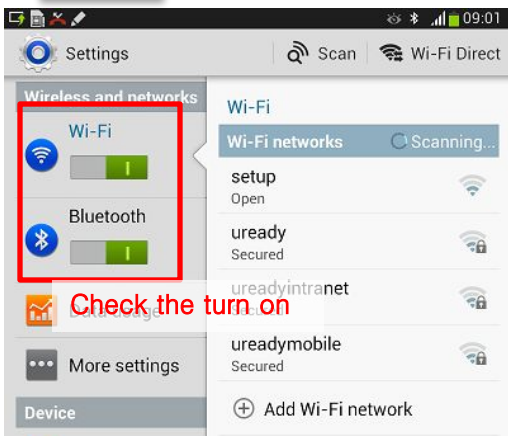


Step	Check point	Result value	Defect point
1	Confirm the defect symptom (Check the turned on BT/WIFI & connected device)	Turned on	Go to the next step
		Turned off	Turn on
2	Check the BT/WIFI Ant. & Ant contact. (Rear cover Ant. & ANT202, ANT203)	Broken, dust, corrosion	BT/WIFI Ant & ANT202, ANT203
		Normal	Go to the next step
3	Check the voltage of C233  <b>Notice. It should be measured when the BT/WIFI path is activated on</b>	C233 = 1.8V	Go to the next step
		If not the correct value	PMIC (U701)
4	Check the clock of C250, C251  <b>Notice. It should be measured when the BT/WIFI path is activated on</b>	C250, C251 = 37Mhz (Same signal compared with a good PBA)	BT/WIFI IC (U203)
		If not the correct value	OSC201

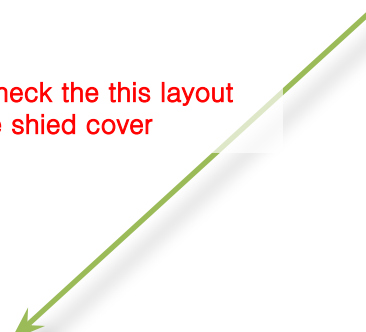


# BT/WIFI Problem

## Step1

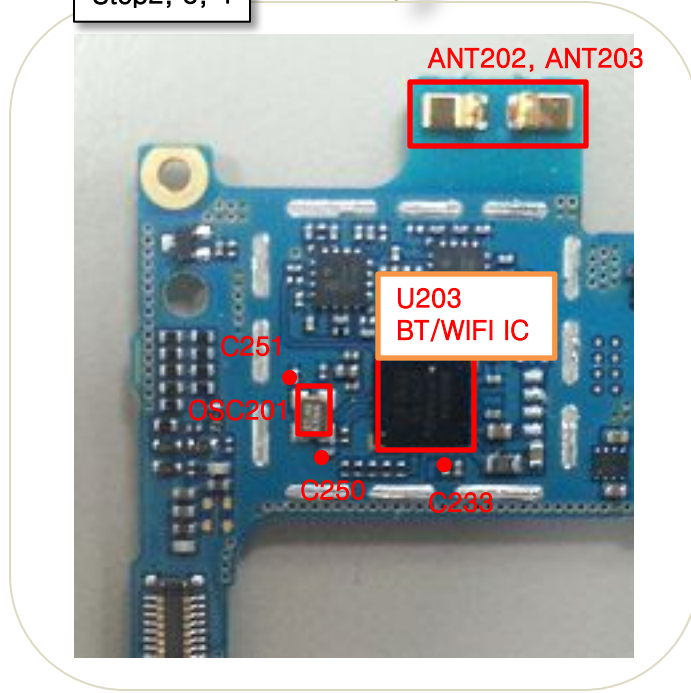


You can check the this layout if open the shield cover



## Step2, 3, 4

## Step2



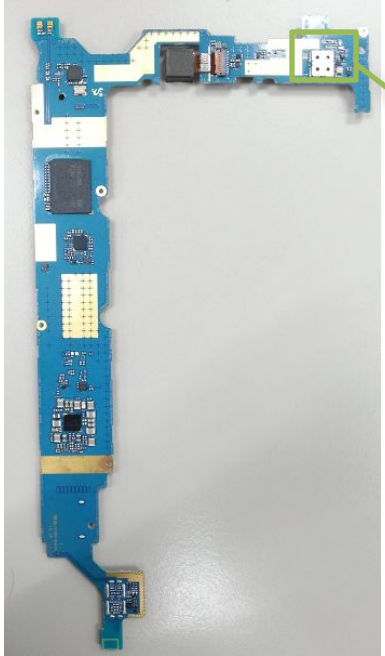
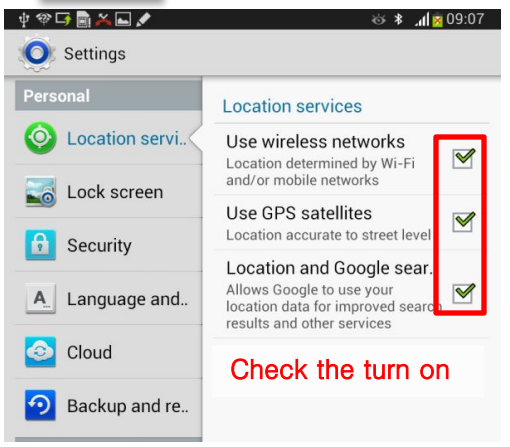
# GPS/GLONASS Problem

Step	Check point	Result value	Defect point
1	Confirm the defect symptom (Check the turned on GPS function)	Turned on	Go to the next step
		Turned off	Turn on
2	Check the BT/WIFI Ant. & Ant contact. (Rear cover Ant. & ANT202, ANT203)	Broken, dust, corrosion	BT/WIFI Ant & ANT202, ANT203
		Normal	Go to the next step
3	Check the voltage of C209, C211, L200  <b>Notice. It should be measured when the GPS path is activated on</b>	C209 = 1.8V C211, L200 = 2.8V	Go to the next step
		If not the correct value	PMIC(U701)
4	Check the clock of C200,C201(OSC200)  <b>Notice. It should be measured when the GPS path is activated on</b>	C200,C201 = 26Mhz (Same signal compared with a good PBA)	GPS IC(U201) GPS LNA(U200)
		If not the correct value	OSC200

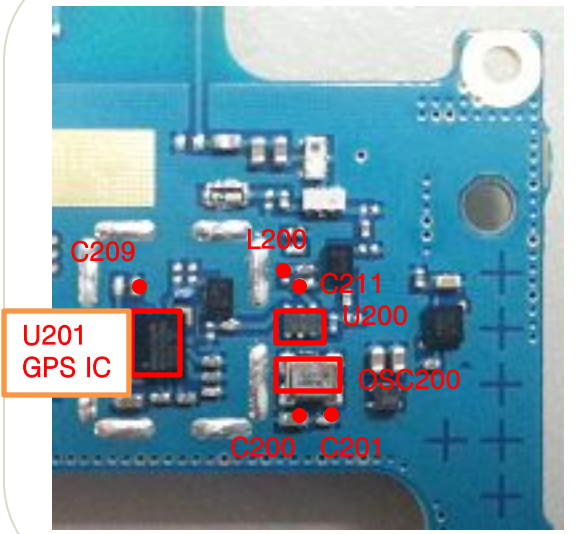


# GPS/GLONASS Problem

## Step1



## Step3, 4



## Step2



# Display Problem

Step	Check point	Result value	Defect point
1	Confirm the defect symptom	-	-
2	Check the LCD connector (HDC800)	Broken, dust, corrosion Insert status	LCD connector (HDC800)
		Normal	Go to the next step
3	Check the signal or voltage of C804 and C806 <b>Notice. It should be measured when the display is activated on</b>	If not the correct value	LED Backlight IC(U802)
		Normal(C804 = high(18V), C806 = V_BATT)	Go to the next step
4	Check the voltage of C800 and C801 <b>Notice. It should be measured when the display is activated on</b>	If not the correct value	Buck boost Reg.(U800)
		Normal(C800 = V_BATT, C801 = 3.3V)	Go to the next step
5	Replace the LCD	Solved	LCD
		Not solved	Main Chip or PBA

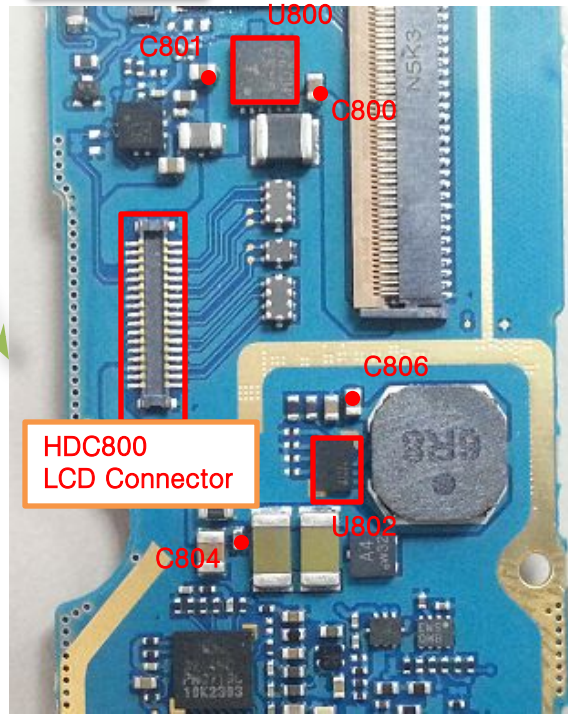




# Display Problem



Step2, 3, 4



HDC800  
LCD Connector



Step2



LCD connector FPCB





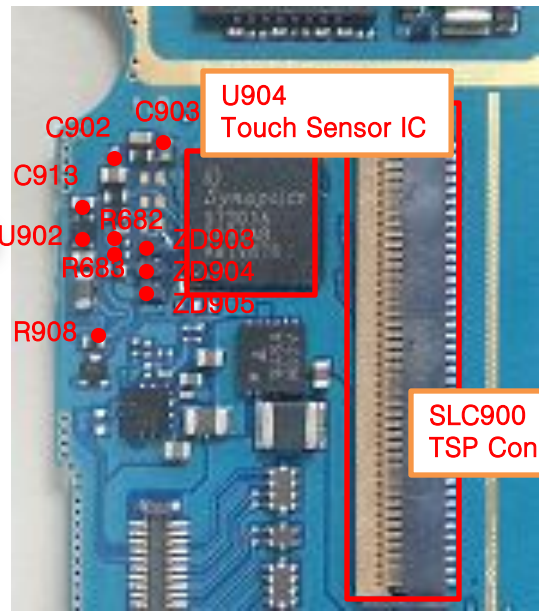
Step	Check point	Result value	Defect point
1	Confirm the defect symptom	-	-
2	Check the TSP connector (SLC900)	Broken, dust, corrosion	TSP connector (SLC900)
		Normal	Go to the next step
3	Check the voltage of C913 <b>Notice. It should be measured when the display is activated on</b>	If not the correct value	TSP LDO(U902)
		C913 = 1.8V	Go to the next step
4	Check the voltage of C902, C903 <b>Notice. It should be measured when the display is activated on</b>	If not the correct value	Touch Sensor IC(U904)
		C902 = 3.3V C903 = 1.8V	Go to the next step
5	Check the <b>Signal</b> of following chips (ZD903, ZD904, ZD905, R908, R682, R683) <b>Notice. It should be measured when the display is activated on</b>	If not the correct value	ZD903, ZD904, ZD905, R908, R682, R683
		Same signal compared with a good PBA	Go to the next step
6	Replace the TSP	Solved	TSP
		Not solved	Main chip or PBA



# Touch Problem



Step2, 3, 4, 5



Step2



LCD connector FPCB



# S-Pen Problem

Step	Check point	Result value	Defect point
1	Confirm the defect symptom	-	-
2	Check the S-Pen connector (SLC1000)	Broken, dust, corrosion	S-Pen connector (SLC1000)
		Normal	Go to the next step
3	Check the voltage of C1035 <b>Notice. It should be measured when the S-Pen is activated on</b>	If not the correct value	C1036, C1037, U1005, U1006, U1007
		R1035 = 3.3V	Go to the next step
4	Check the clock of C1045, C1046 <b>Notice. It should be measured when the S-Pen is activated on</b>	C1045, C1046 = 16Mhz (Same signal compared with a good PBA)	Go to the next step
		If not the correct value	OSC1001
5	Check the <b>Signal</b> of following chips (C1052, R1042, R1031, R1032) <b>Notice. It should be measured when the display is activated on</b>	If not the correct value	C1052, R1031, R1032, U1006
		Same signal compared with a good PBA	Go to the next step
6	Check the <b>Signal</b> of R1041 <b>Notice. It should be measured when the display is activated on</b>	If not the correct value	R1041, U1007, U1008
		Same signal compared with a good PBA	Go to the next step
7	Replace the Front Ass'y	Solved	Front Ass'y
		Not solved	Main chip or PBA



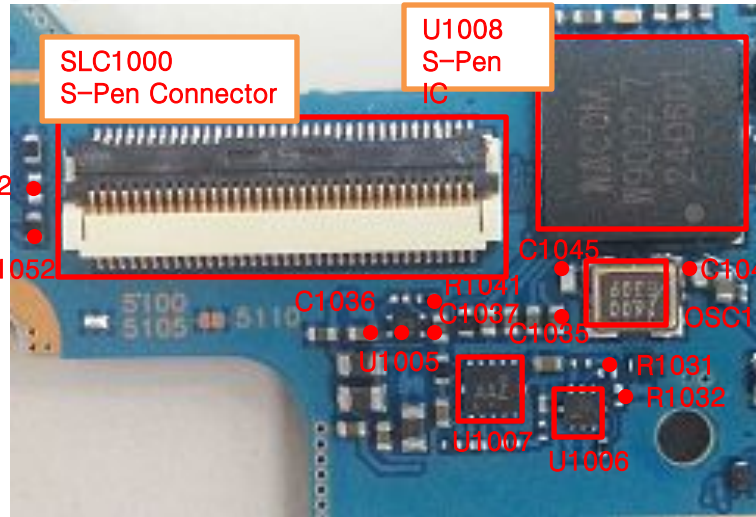
# S-Pen Problem

Step2

S-Pen connector  
FPCB



Step2, 3, 4, 5,  
6



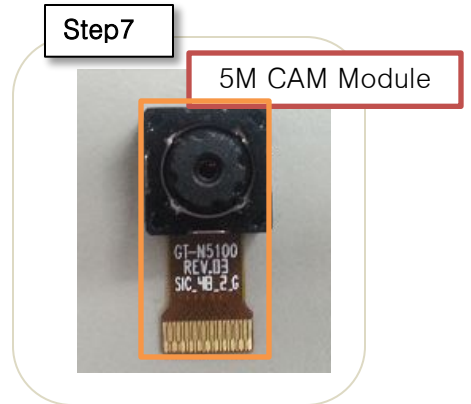
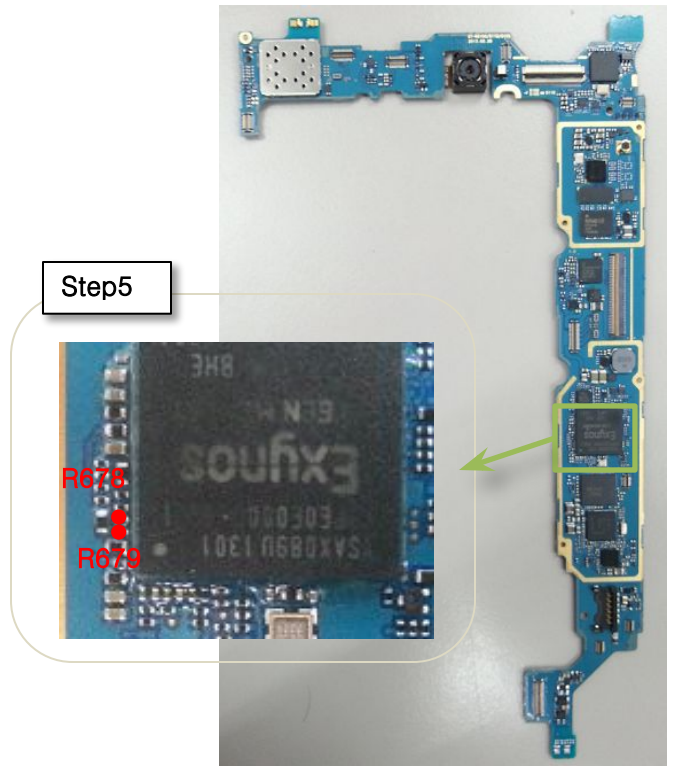
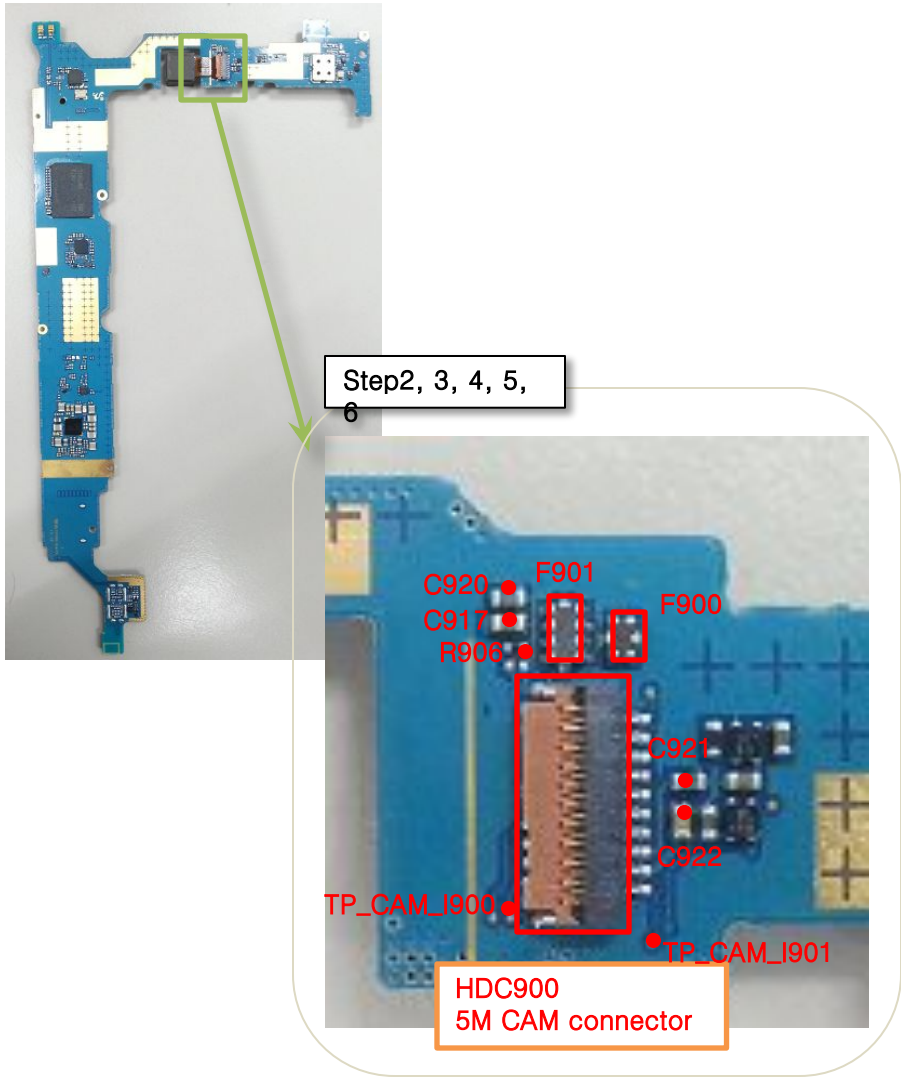
# 5M CAM Problem

Step	Check point	Result value	Defect point
1	Confirm the defect symptom	-	-
2	Check the 5M CAM connector (HDC900)	Broken, dust, corrosion	5M CAM connector (HDC900)
		Normal	Go to the next step
3	Check the voltage of following chips (C917, C920, C921, C922) <b>Notice. It should be measured when the 5M CAM is activated on</b>	If not the correct value	C917, C920, C921, C922
		C917 = 1.2V, C920 = 1.8V, C921 = 2.8V, C922 = 2.8V	Go to the next step
4	Check the clock of R906 <b>Notice. It should be measured when the 5M CAM is activated on</b>	R906 = 24Mhz (Same signal compared with a good PBA)	Go to the next step
		If not the correct value	Main chip
5	Check the <b>Signal</b> of following Test Point (TP CAM I900, TP CAM I901) <b>Notice. It should be measured when the 5M CAM is activated on</b>	Same signal compared with a good PBA	Go to the next step
		If not the correct value	R678, R679
6	Check the F900, F901 <b>Notice. It should be measured when the 5M CAM is activated on</b>	Abnormal	F900, F901
		Normal	Go to the next step
7	Replace the 5M CAM	Solved	5M CAM
		Not solved	Main chip or PBA





# 5M CAM Problem

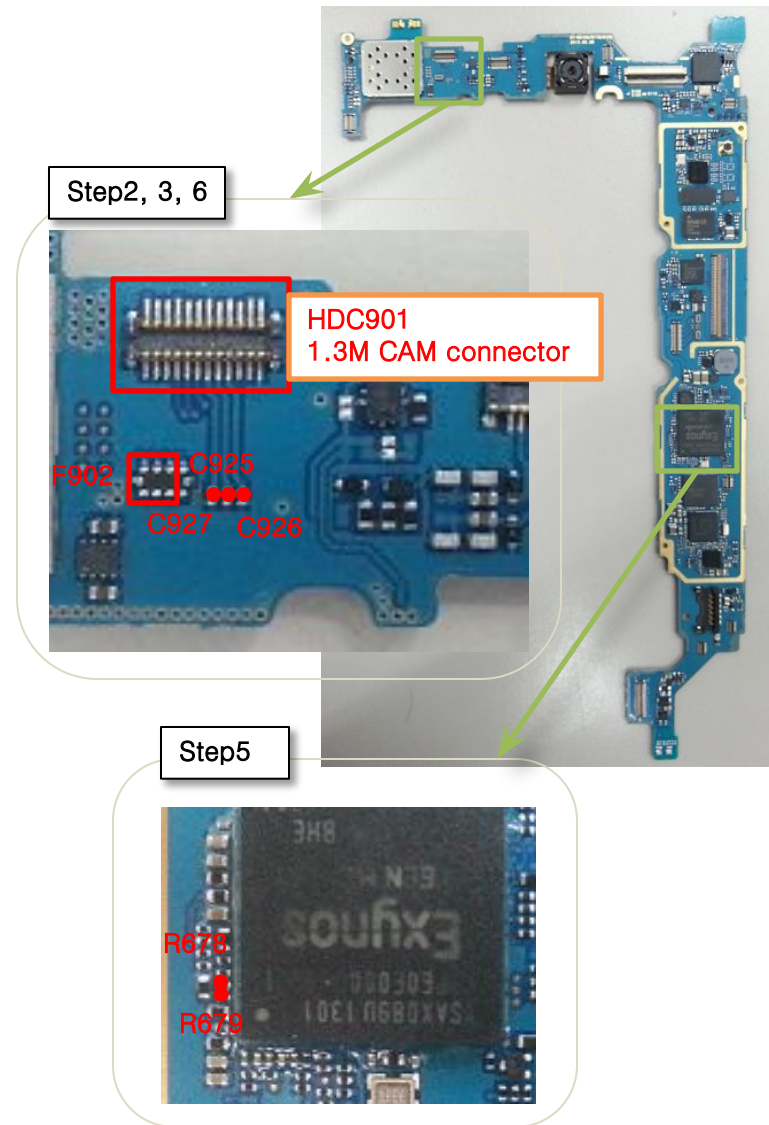
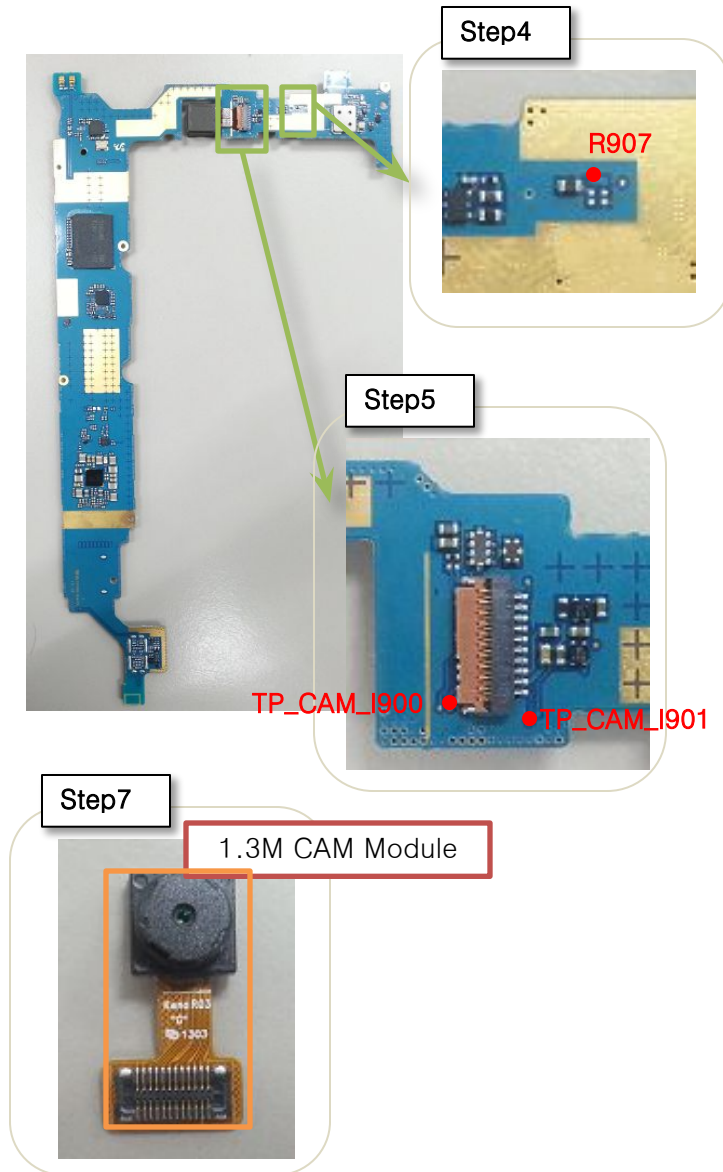


# 1.3M CAM Problem

Step	Check point	Result value	Defect point
1	Confirm the defect symptom	-	-
2	Check the 1.3M CAM connector (HDC901)	Broken, dust, corrosion	5M CAM connector (HDC901)
		Normal	Go to the next step
3	Check the voltage of following chips (C925, C926, C927) <b>Notice. It should be measured when the 1.3M CAM is activated on</b>	If not the correct value	C925, C926, C927
		C925 = 1.8V, C926 = 2.8V, C927 = 1.8V	Go to the next step
4	Check the clock of R907 <b>Notice. It should be measured when the 1.3M CAM is activated on</b>	R907 = 24Mhz (Same signal compared with a good PBA)	Go to the next step
		If not the correct value	Main chip
5	Check the <b>Signal</b> of following Test Point (TP CAM I900, TP CAM I901) <b>Notice. It should be measured when the 1.3M CAM is activated on</b>	Same signal compared with a good PBA	Go to the next step
		If not the correct value	R678, R679
6	Check the F902 <b>Notice. It should be measured when the 1.3M CAM is activated on</b>	Abnormal	F902
		Normal	Go to the next step
7	Replace the 1.3M CAM	Solved	1.3M CAM
		Not solved	Main chip or PBA



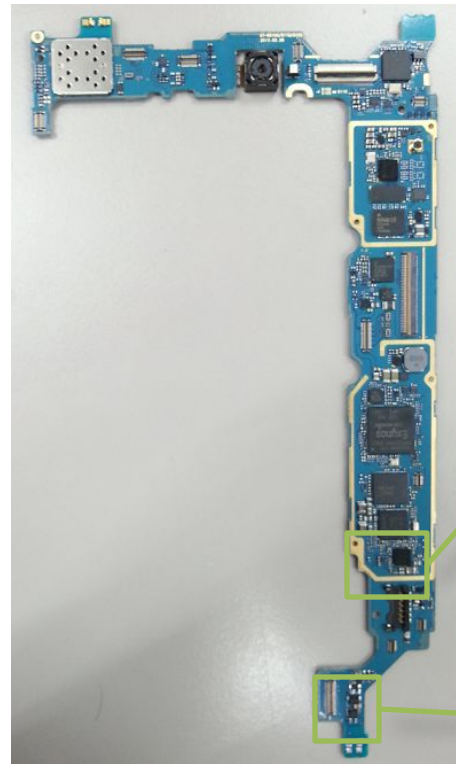
# 1.3M CAM Problem



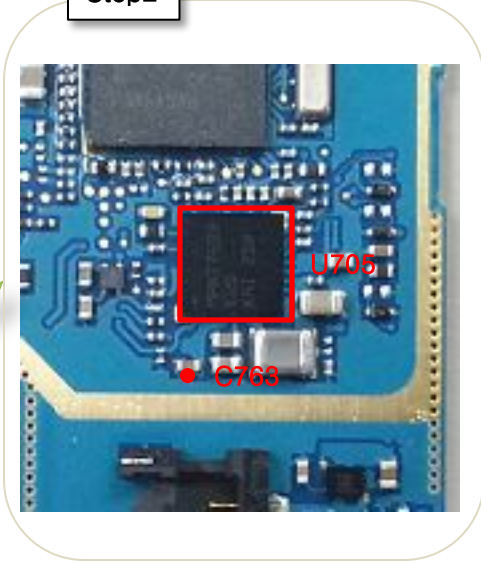
Step	Check point	Result value	Defect point
1	Confirm the defect symptom	-	-
2	Check the voltage of V_BUS(C763)	C763 = 5V	Go to the next step
		If not the correct value	Charging IC(U705)
3	Check the voltage of V_BUS_IN(C506)	C506 = 5V	Go to the next step
		If not the correct value	Charge protection (U504)
4	Replace the Sub PCB	Solved	Sub PCB
		Not solved	Main chip or PBA



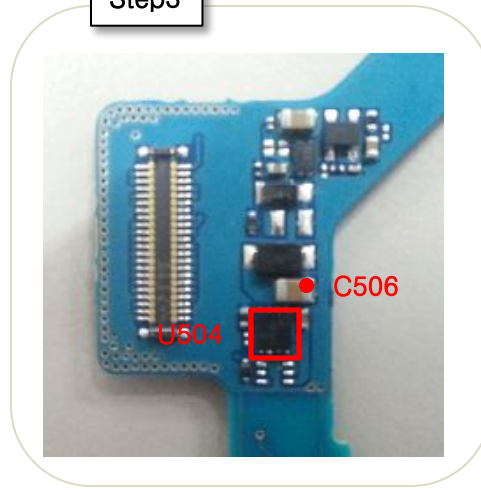
# OTG Problem



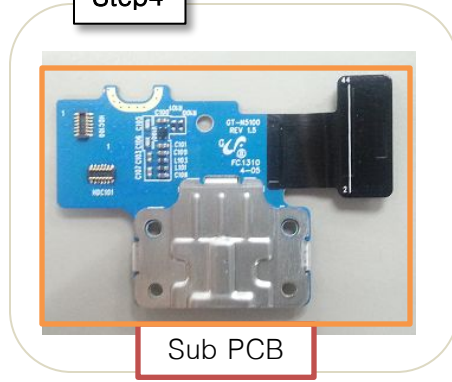
Step2



Step3

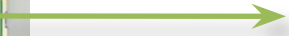
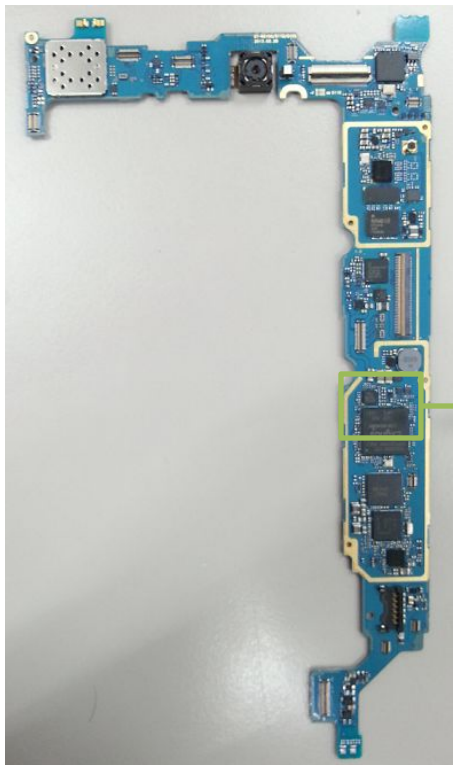


Step4

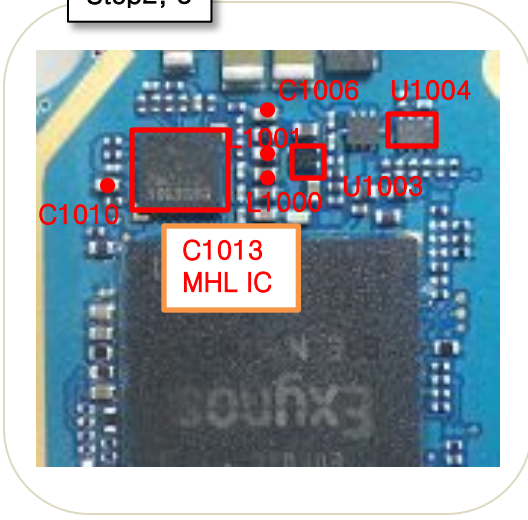


Step	Check point	Result value	Defect point
1	Confirm the defect symptom	-	-
2	Check the voltage of following chips (L1000, C1006, L1001, C1010)	L1000 = 1.2V, C1006 = 3.3V, L1001 = 1.2V, C1010 = 1.8V	Go to the next step
		If not the correct value	MHL LDO (U1003, U1004)
4	Replace the C1013	Solved	MHL IC(C1013)
		Not solved	Main chip or PBA

# MHL Problem



Step2, 3



- Question

