

SAMSUNG

GSM TELEPHONE

SGH-P270

SERVICE *Manual*

GSM TELEPHONE

CONTENTS



1. Safety Precautions
2. Specification
3. Product Function
4. Array course control
5. Exploded View and Parts list
6. MAIN Electrical Parts List
7. Disassembly and Assembly Instructions
8. Block Diagrams
9. PCB Diagrams
10. Chart of Troubleshooting
11. Reference data

**SAMSUNG
ELECTRONICS**



GSPN (Global Service Partner Network)

Country	Web Site
North America	service.samsungportal.com
Latin America	latin.samsungportal.com
CIS	cis.samsungportal.com
Europe	europe.samsungportal.com
China	china.samsungportal.com
Asia	asia.samsungportal.com
Mideast & Africa	mea.samsungportal.com

2. Specification

2-1. GSM General Specification

	GSM900 Phase 1	EGSM 900 Phase 2	DCS1800 Phase 1	PCS1900
Freq. Band[MHz] Uplink/Downlink	890~915 935~960	880~915 925~960	1710~1785 1805~1880	1850~1910 1930~1990
ARFCN range	1~124	0~124 & 975~1023	512~885	512~810
Tx/Rx spacing	45MHz	45MHz	95MHz	80MHz
Mod. Bit rate / Bit Period	270.833kbps 3.692us	270.833kbps 3.692us	270.833kbps 3.692us	270.833kbps 3.692us
Time Slot Period / Frame Period	576.9us 4.615ms	576.9us 4.615ms	576.9us 4.615ms	576.9us 4.615ms
Modulation	0.3GMSK	0.3GMSK	0.3GMSK	0.3GMSK
MS Power	33dBm~5dBm	33dBm~5dBm	30dBm~0dBm	30dBm~0dBm
Power Class	5pcl ~ 19pcl	5pcl ~ 19pcl	0pcl ~ 15pcl	0pcl ~ 15pcl
Sensitivity	-102dBm	-102dBm	-100dBm	-100dBm
TDMA Mux	8	8	8	8
Cell Radius	35Km	35Km	2Km	-

2-2. GSM TX power class

TX Power control level	GSM900
5	33±2 dBm
6	31±3 dBm
7	29±3 dBm
8	27±3 dBm
9	25±3 dBm
10	23±3 dBm
11	21±3 dBm
12	19±3 dBm
13	17±3 dBm
14	15±3 dBm
15	13±3 dBm
16	11±5 dBm
17	9±5 dBm
18	7±5 dBm
19	5±5 dBm

TX Power control level	DCS1800
0	30±2 dBm
1	28±3 dBm
2	26±3 dBm
3	24±3 dBm
4	22±3 dBm
5	20±3 dBm
6	18±3 dBm
7	16±3 dBm
8	14±3 dBm
9	12±4 dBm
10	10±4 dBm
11	8±4dBm
12	6±4 dBm
13	4±4 dBm
14	2±5 dBm
15	0±5 dBm

TX Power control level	PCS1900
0	30±2 dBm
1	28±3 dBm
2	26±3 dBm
3	24±3 dBm
4	22±3 dBm
5	20±3 dBm
6	18±3 dBm
7	16±3 dBm
8	14±3 dBm
9	12±4 dBm
10	10±4 dBm
11	8±4dBm
12	6±4 dBm
13	4±4 dBm
14	2±5 dBm
15	0±5 dBm

2-3. GSM EDGE TX power class

TX Power control level	GSM900	TX Power control level	DCS1800	TX Power control level	PCS1900
8	27±3 dBm	2	26 -4/+3 dBm	2	26 -4/+3 dBm
9	25±3 dBm	3	24±3 dBm	3	24±3 dBm
10	23±3 dBm	4	22±3 dBm	4	22±3 dBm
11	21±3 dBm	5	20±3 dBm	5	20±3 dBm
12	19±3 dBm	6	18±3 dBm	6	18±3 dBm
13	17±3 dBm	7	16±3 dBm	7	16±3 dBm
14	15±3 dBm	8	12±3 dBm	8	12±3 dBm
15	13±3 dBm	9	10±3 dBm	9	10±3 dBm
16	11±5 dBm	10	14±3 dBm	10	14±3 dBm
17	9±5 dBm	11	12±4 dBm	11	12±4 dBm
18	7±5 dBm	12	10±4 dBm	12	10±4 dBm
19	5±5 dBm	13	8±4dBm	13	8±4dBm
		14	6±4 dBm	14	6±4 dBm
		15	4±4 dBm	15	4±4 dBm

3. Product Function

Main Function

- **2 MEGA PIXEL CMOS**
- **MP3 / 64 Poly Melody**
- **BT 2.0**
- **USB 2.0**
- **WAP 2.0**
- **FM Radio with RDS**
- **MIDP 2.0 / CLDC 1.1**
- **GPRS/EDGE : class 12**
- **SMS / MMS**
- **BT/FM : Stereo FM Radio + BT (CSR)**
- **Battery: 960mA**
- **Weight: 93.3 g**
- **Memory: 1G LB +512Mb**
- **Camera: 2M + CIF CMOS**
- **LCD : 2.2", 176x220, 262K TFT**
- **Size: 99 x 49 x 14.9 mm (TBD)**
- **Band: 900/1800/1900/2100**
- **BB : PNX 5217 (NXP)**
- **RF : UAA3582(3G) + SI4221(2G)**

10. Reference data

Reference Abbreviate

- **AAC**: Advanced Audio Coding.
- **AVC** : Advanced Video Coding.
- **BER** : Bit Error Rate
- **BPSK**: Binary Phase Shift Keying
- **CA** : Conditional Access
- **CDM** : Code Division Multiplexing
- **C/I** : Carrier to Interference
- **DMB** : Digital Multimedia Broadcasting
- **EN** : European Standard
- **ES** : Elementary Stream
- **ETSI**: European Telecommunications Standards Institute
- **MPEG**: Moving Picture Experts Group
- **PN** : Pseudo-random Noise
- **PS** : Pilot Symbol
- **QPSK**: Quadrature Phase Shift Keying
- **RS** : Reed-Solomon
- **SI** : Service Information
- **TDM** : Time Division Multiplexing
- **TS** : Transport Stream

1. Safety Precautions

1-1. Repair Precaution

- Repair in Shield Box, during detailed tuning.
Take specially care of tuning or test,
because specificity of cellular phone is sensitive for surrounding interference(RF noise).

- Be careful to use a kind of magnetic object or tool,
because performance of parts is damaged by the influence of magnetic force.

- Surely use a standard screwdriver when you disassemble this product, otherwise screw
will be worn away.

- Use a thicken twisted wire when you measure level.
A thicken twisted wire has low resistance, therefore error of measurement is few.

- Repair after separate Test Pack and Set because for short danger (for example an
overcurrent and furious flames of parts etc) when you repair board in condition of
connecting Test Pack and tuning on.

- Take specially care of soldering, because Land of PCB is small and weak in heat.

- Surely tune on/off while using AC power plug, because a repair of battery charger is
dangerous when tuning ON/OFF PBA and Connector after disassembling charger.
- Don't use as you pleases after change other material than replacement registered on SEC
System.
Otherwise engineer in charge isn't charged with problem that you don't keep this rules.

1-2. ESD(Electrostatically Sensitive Devices) Precaution

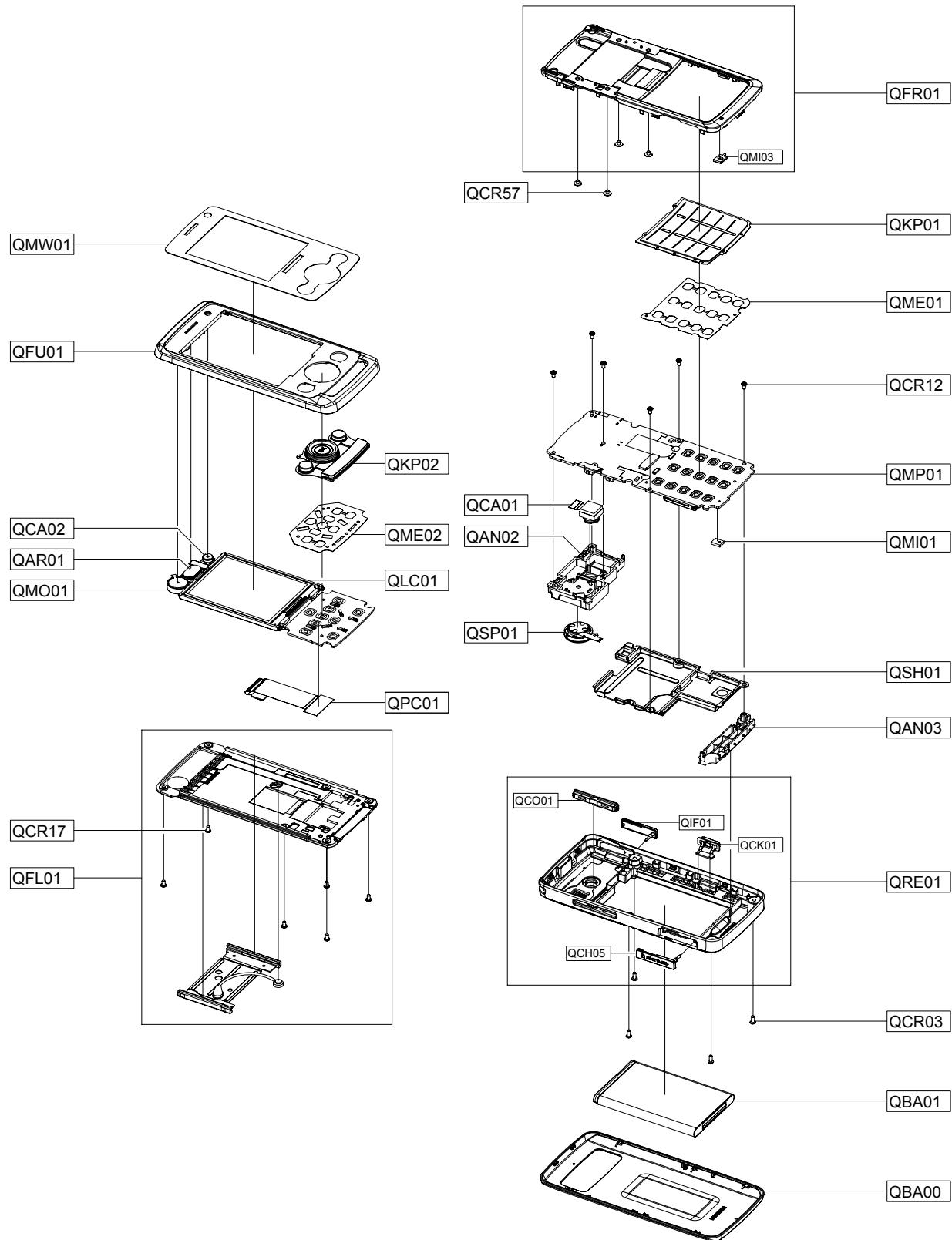
Several semiconductor may be damaged easily by static electricity. Such parts are called by ESD(Electrostatically Sensitive Devices), for example IC,BGA chip etc. Read Precaution below.

You can prevent from ESD damage by static electricity.

- Remove static electricity remained your body before you touch semiconductor or parts with semiconductor. There are ways that you touch an earthed place or wear static electricity prevention string on wrist.
- Use earthed soldering steel when you connect or disconnect ESD.
- Use soldering removing tool to break static electricity. , otherwise ESD will be damaged by static electricity.
- Don't unpack until you set up ESD on product. Because most of ESD are packed by box and aluminum plate to have conductive power,they are prevented from static electricity.
- You must maintain electric contact between ESD and place due to be set up until ESD is connected completely to the proper place or a circuit board.

5. Exploded View and Parts List

5-1. Cellular phone Exploded View



5-2. Cellular phone Parts list

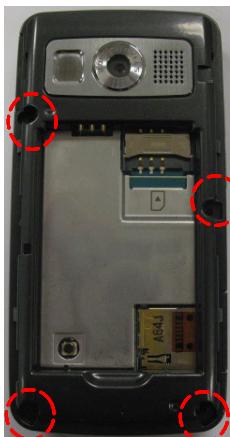
Design LOC	Description	SEC CODE
QAN02	INTENNA-BT&WLAN INTENNA-SGH_P2	GH42-01736A
QAN03	INTENNA-MAIN INTENNA-SGH_P270	GH42-01747A
QAR01	AUDIO-RECEIVER	3009-001323
QBA00	PMO COVER-BATT	GH98-11455C
QBA01	INNER BATTERY PACK-960MAH,BLK,	GH43-02720A
QCA01	ELA UNIT-CAMERA ASSY	GH96-03250A
QCA02	ELA UNIT-CAMERA ASS'Y(CIF)	GH96-03244A
QCR03	SCREW-MACHINE	6001-001811
QCR12	SCREW-MACHINE	6001-001530
QCR17	SCREW-MACHINE	6001-001460
QCR57	SCREW-MACHINE	6001-002001
QFL01	ASSY CASE-LOWER	GH98-07827C
QFU01	ASSY CASE-UPPER	GH98-07826C
QKP01	ASSY KEYPAD-MAIN(ORG/GRY)	GH98-10927A
QKP02	ASSY KEYPAD-SUB(EU/MODERN BLAC	GH98-07823C
QLC01	ELA ETC-LCD MODULE	GH96-03497A
QME01	DOME SHEET-SGH P270	GH59-05992A
QME02	KEY FPCB-S/DOME SHEET 9KEY	GH59-05618A
QMI01	MICROPHONE-ASSY-SGHJ800 SMD TY	GH30-00517A
QMO01	MOTOR DC-SPH_W6300	GH31-00154H
QMP01	A/S ASSY-PBA MAIN (SGH_P270 SV	GH82-03261A
QMW01	ASSY COVER-MAIN WINDOW	GH98-09067A
QPC01	FPC-CON TO CON(L750)	GH41-02121A
QSH01	ASSY COVER-SHIELD CAN	GH98-09066A
QSP01	SPEAKER	3001-002410
QFR01	ASSY CASE-FRONT	GH98-09064A
QMI03	ASSY RUBBER-MIC	GH98-09878A
QRE01	ASSY CASE-REAR	GH98-09063C
QCH05	PMO COVER-T FLASH	GH72-48581C
QCK01	PMO KEY-CAMERA	GH72-48582A
QIF01	PMO COVER-IF	GH72-48580C
QVO01	ASSY KEY-VOLUME	GH98-10799A

11. Disassembly and Assembly Instructions

11-1. Disassembly

1

- 1) Unscrew the 4 points.
- 2) Separate the REAR from the FRONT ass'y using disassembly stick.



2

- 1) Seprete PBA from the slide ass'y.



* Caution

- 1) Be care of scratch and molding damage.

3

- 1) Seprete the KEYPAD from the slide ass'y.



* Caution

- 1) Be care of scratch and molding damage.
- 2) Be care of damage to slide F-CPB.

4

- 1) Unscrew the 4 points.
- 2) Separate the FRONT case from the slide ass'y.



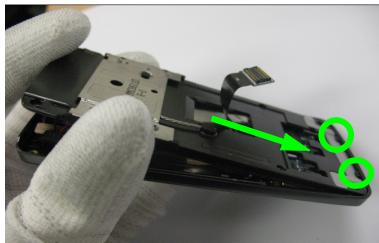
* Caution

* Caution

- 1) Be care of scratch and molding damage.

5

- 1) Unscrew the 6 points.
- 2) Separate the LOWER case from the UPPER case.



6

- 1) Disassemble the slide F-PCB from the sub PCB.



*** Caution**

- 1) Be care of scratch and molding damage.
- 2) Be care of damage to slide F-CPB.

*** Caution**

- 1) Be care of scratch and molding damage.
- 2) Be care of damage to the slide F-CPB.
- 3) Be care of damage to the connector.

7

- 1) Detach the RECEIVER & MOTOR from the UPPER case.
- 2) Disassemble the VGA F-PCB from the sub PCB.



8

- 1) Separate the LCD module from the UPPER case.



*** Caution**

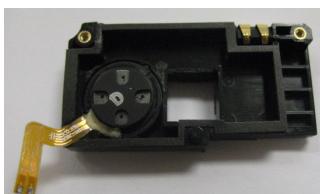
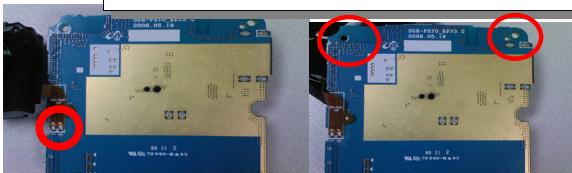
- 1) Be care of damage to camera F-PCB.

*** Caution**

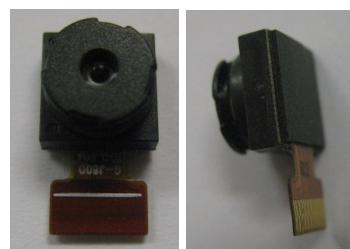
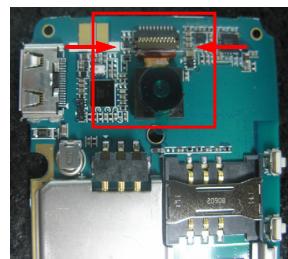
- 1) Be care of scratch to main WINDOW.

9

- 1) Detach the SPEAKER F-PCB from the PBA by soldering designated point.
- 2) Unscrew the 2 points.

**10**

- 1) Separate the camera module from the PBA.



*** Caution**

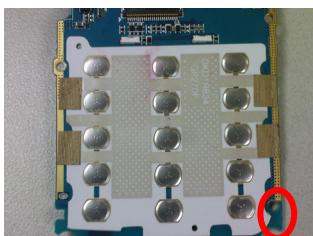
- 1) Be care of damage to F-PCB.

*** Caution**

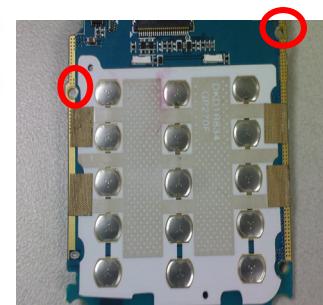
- 1) Be care of damage to F-PCB.
- 2) Be care of damage to the zip connector.

11

- 1) Unscrew the 1 point to separate the INTENNA from the PBA.

**12**

- 1) Unscrew the 2 points to separate the shield can from the PBA.



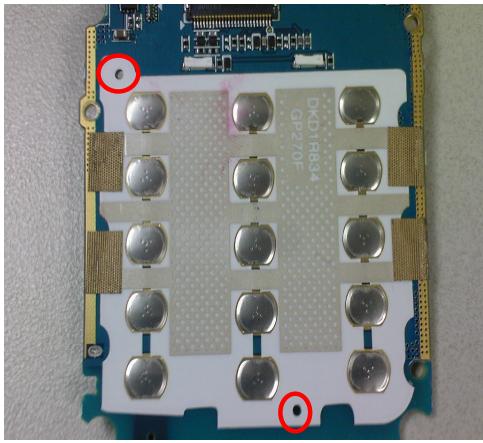
*** Caution**

- 1) Be care of scratch and molding damage.

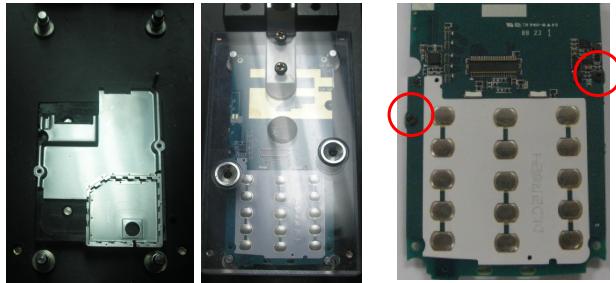
*** Caution**

11-2. Assembly

- 1** 1) Attach the DOMESHEET to the PCB like below.



- 2** 1) Screw down the two points to assembly the shield can and the PBA.

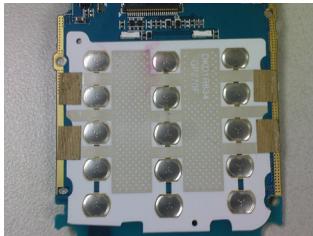


*** Caution**

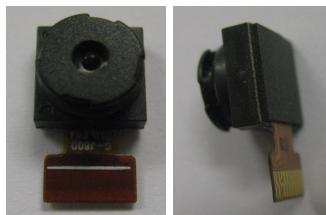
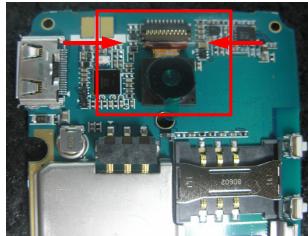
- 1) Keep clean the PBA and the DOMESHEET before attach the DOMESHEET.

*** Caution**

- 3** 1) Screw down the 1 point



- 4** 1) Connect the CAMERA and the CONNECTOR.



*** Caution**

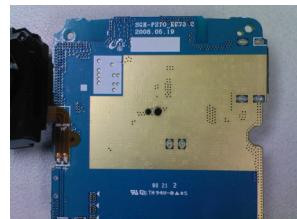
- 1) Be care of damage the INTENNA.

*** Caution**

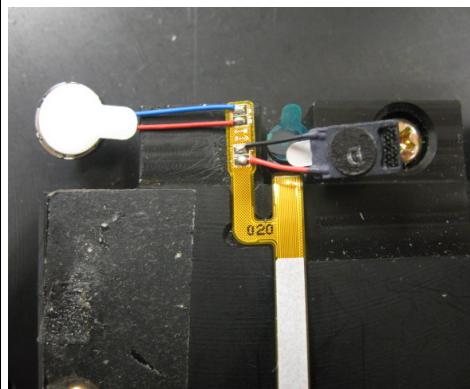
- 1) Be care of damage the F-PCB and connector.

5

- 1) Screw down the 2 points.
- 2) Solder the speaker F-CPB like below.

**6**

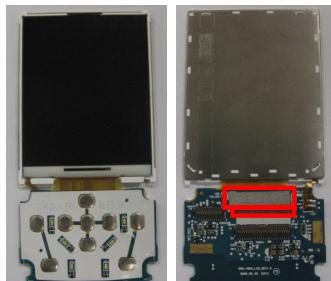
- 1) Solder the MOTOR wire & RECEIVER on the VGA CAMEARA F-CPB.

*** Caution**

- 1) Be care of damage to the PBA.

7

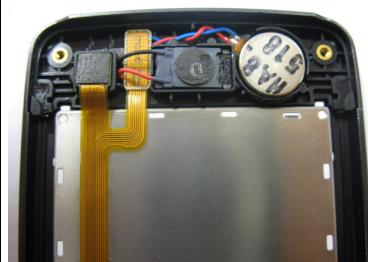
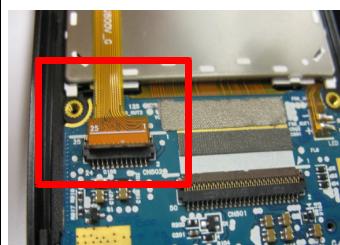
- 1) Assemble the LCD module on the UPPER case.

*** Caution**

- 1) Be care of damage to the VGA F-PCB.

8

- 1) Connect the VGA F-PCB & connector.
- 2) Place the MOTOR & RECEIVER stably.

*** Caution**

- 1) Be care of damage to the LCD module.
- 2) Keep clean the main WINDOW before assembling the LCD module.

*** Caution**

- 1) Be care of damage to the VGA F-PCB.
- 2) Wires should be arranged like the picture.

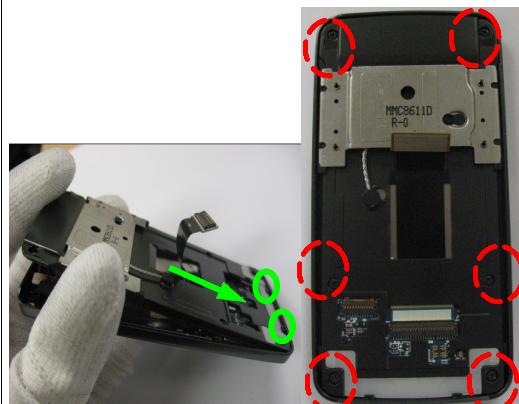
9

- 1) Assemble the slide F-CPB with the conenctor.



10

- 1) Assemble the LOWER case with the UPPER case.
2) Screw down the 6 points.



※ Caution

- 1) Be care of scratch and damage to the slide F-PCB.

11

- 1) Screw down the 4 points.



12

- 1) Place the KEYPAD on the FRONT case.



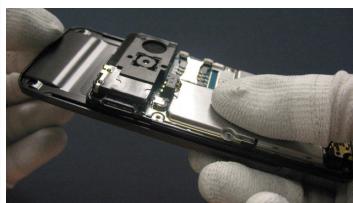
※ Caution

- 1) Be care of scratch and molding damage.

※ Caution

13

- 1) Connect the slide F-PCB & PBA ass'y.
- 2) Place the PBA ass'y on the FRONT case stably.



14

- 1) Assemble the REAR case and FRONT cas.
- 2) Screw down 4 points.

*** Caution**

- 1) Be care of scratch and damage to the slide F-PCB.

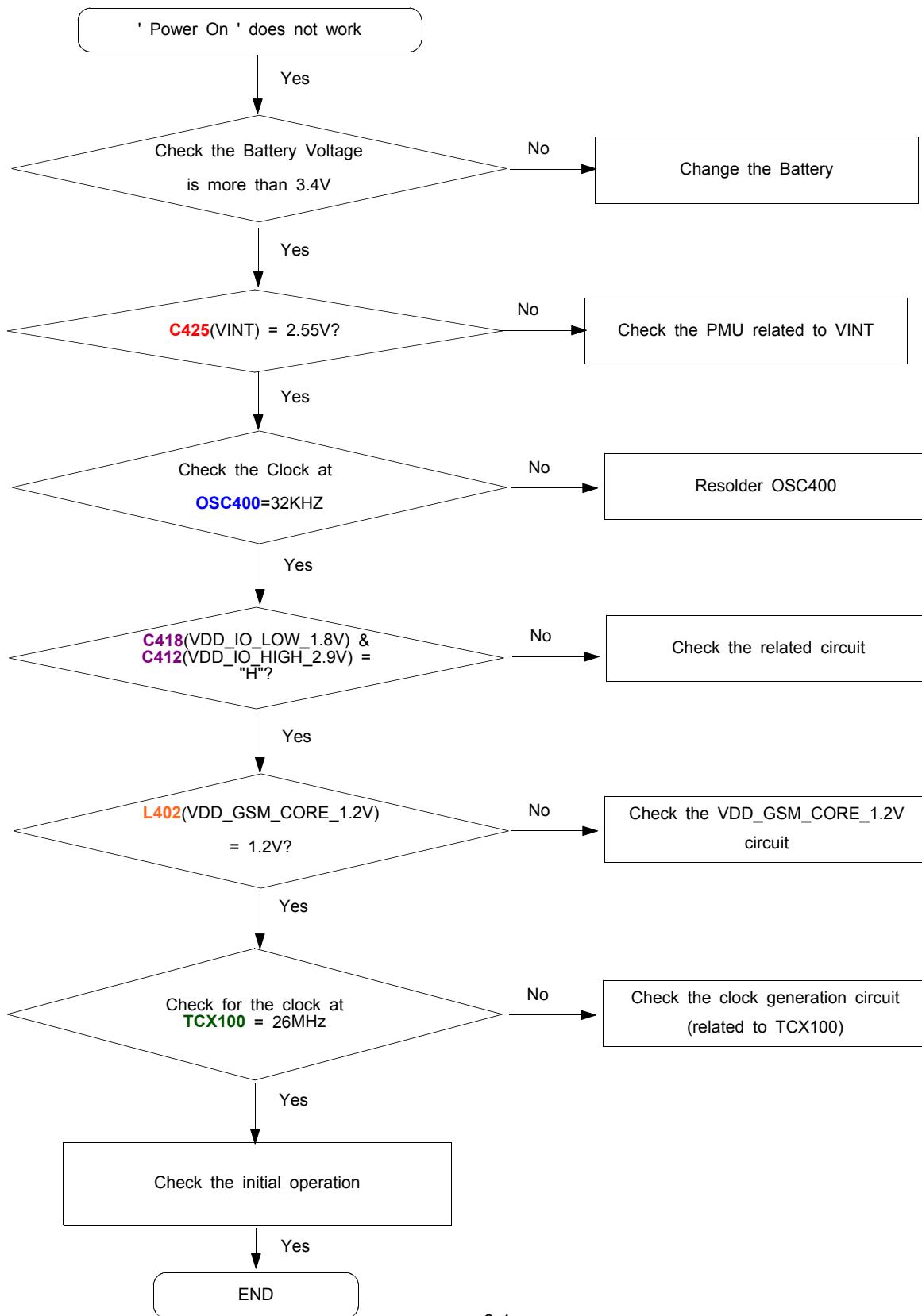
*** Caution**

- 1) Be care of scratch and molding damage.

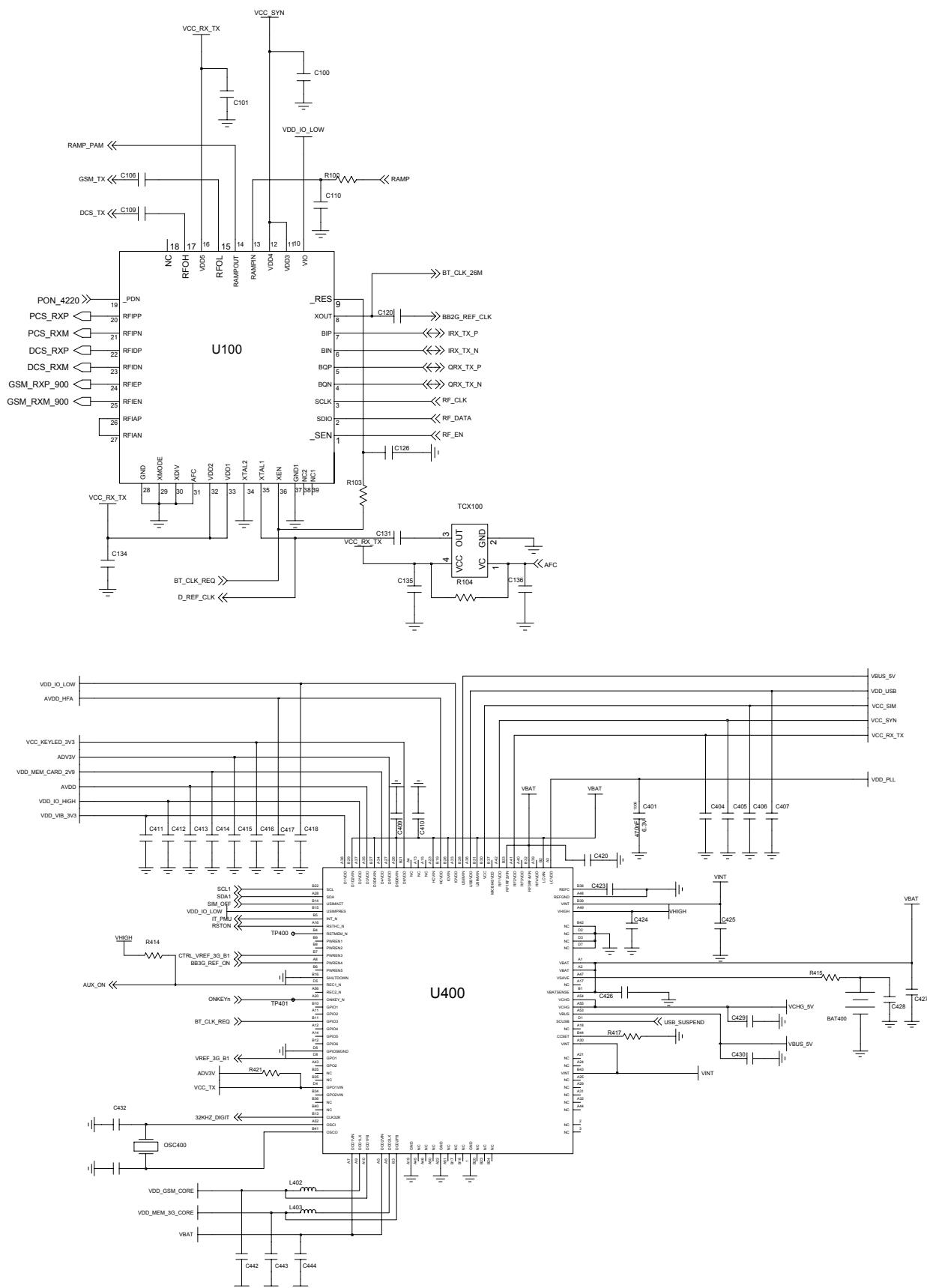
9. Flow Chart of Troubleshooting

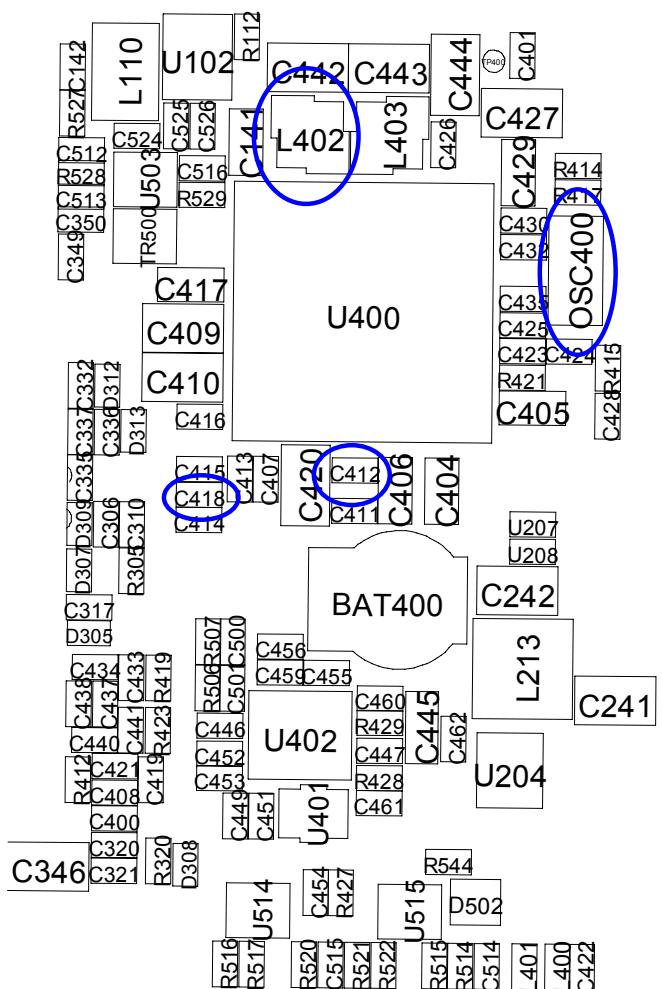
9-1. Baseband

9-1-1 Power ON

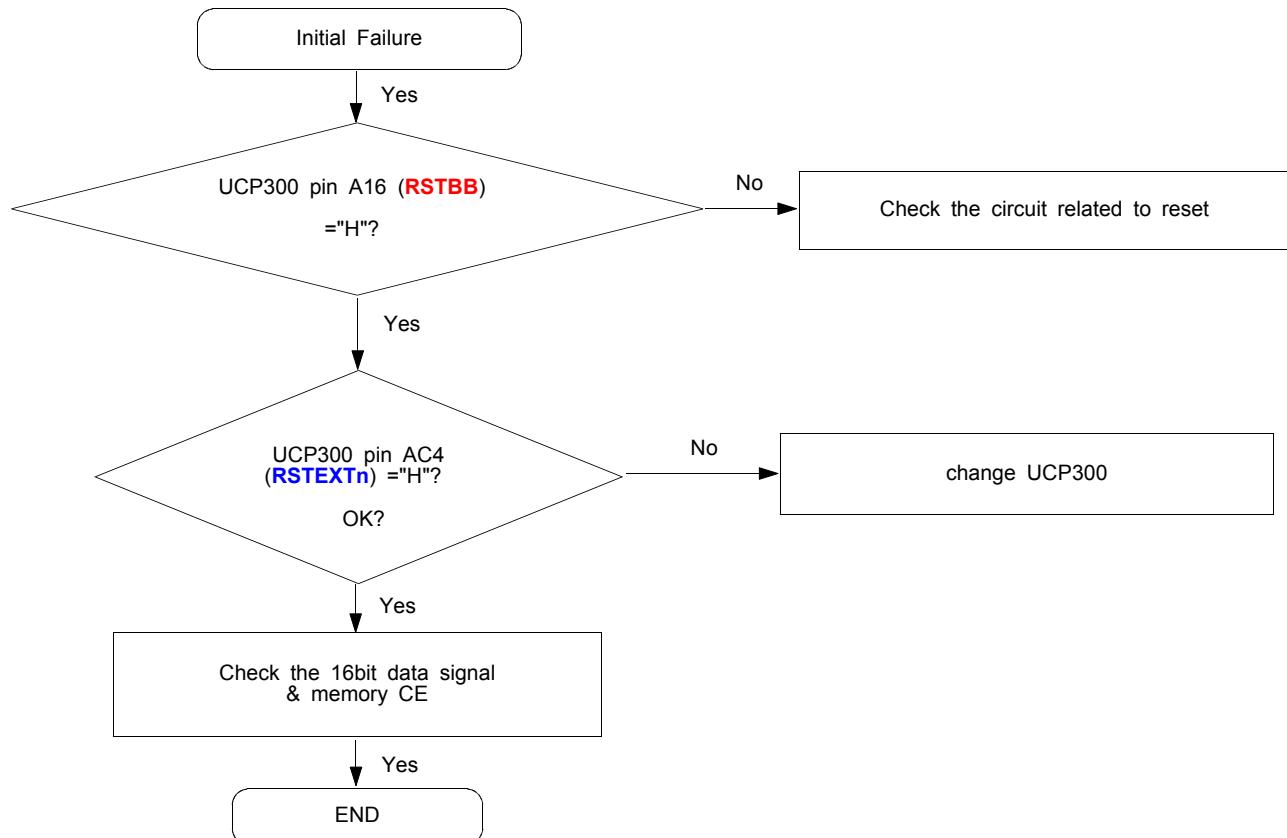


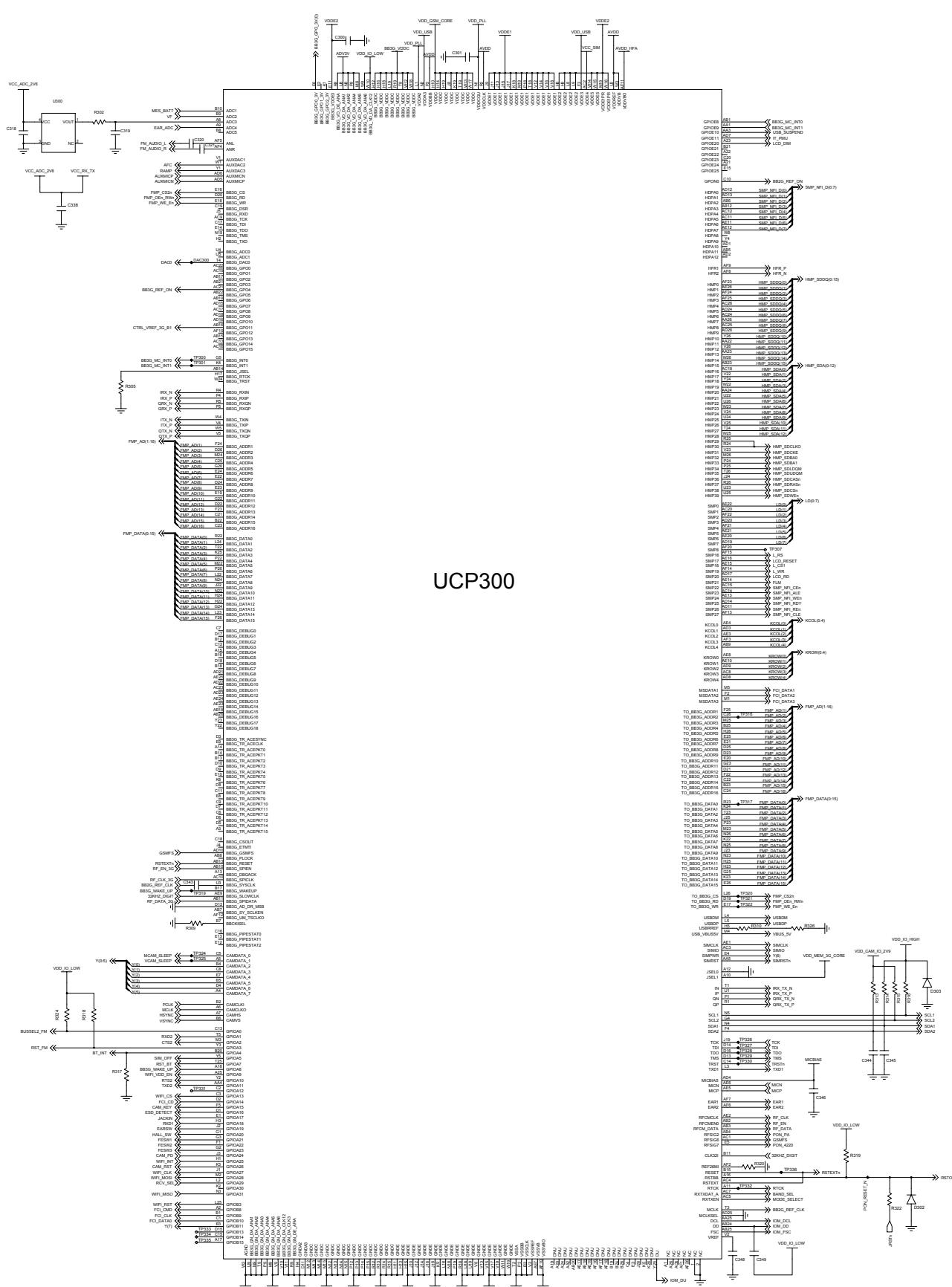
Flow Chart of Troubleshooting



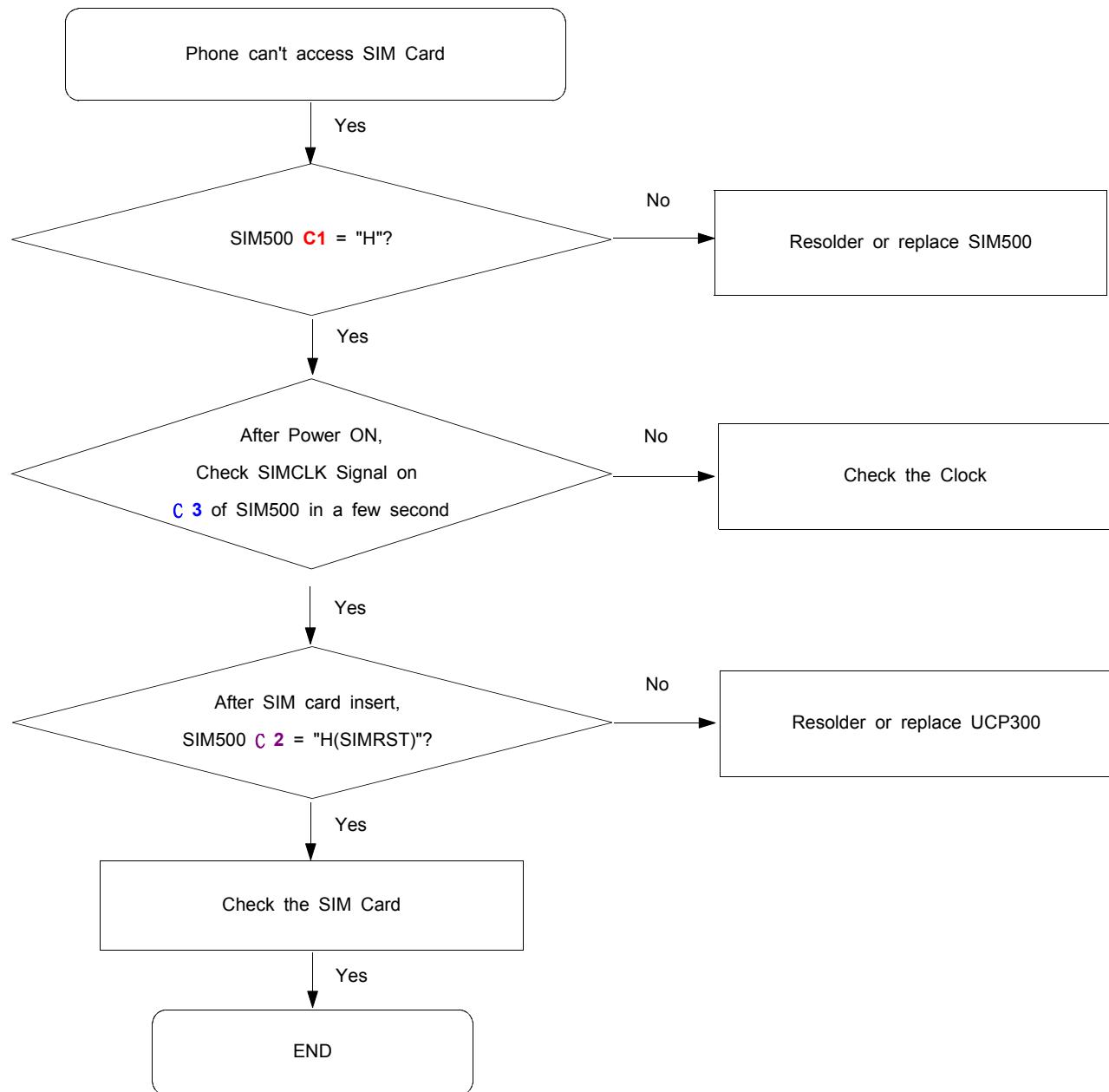


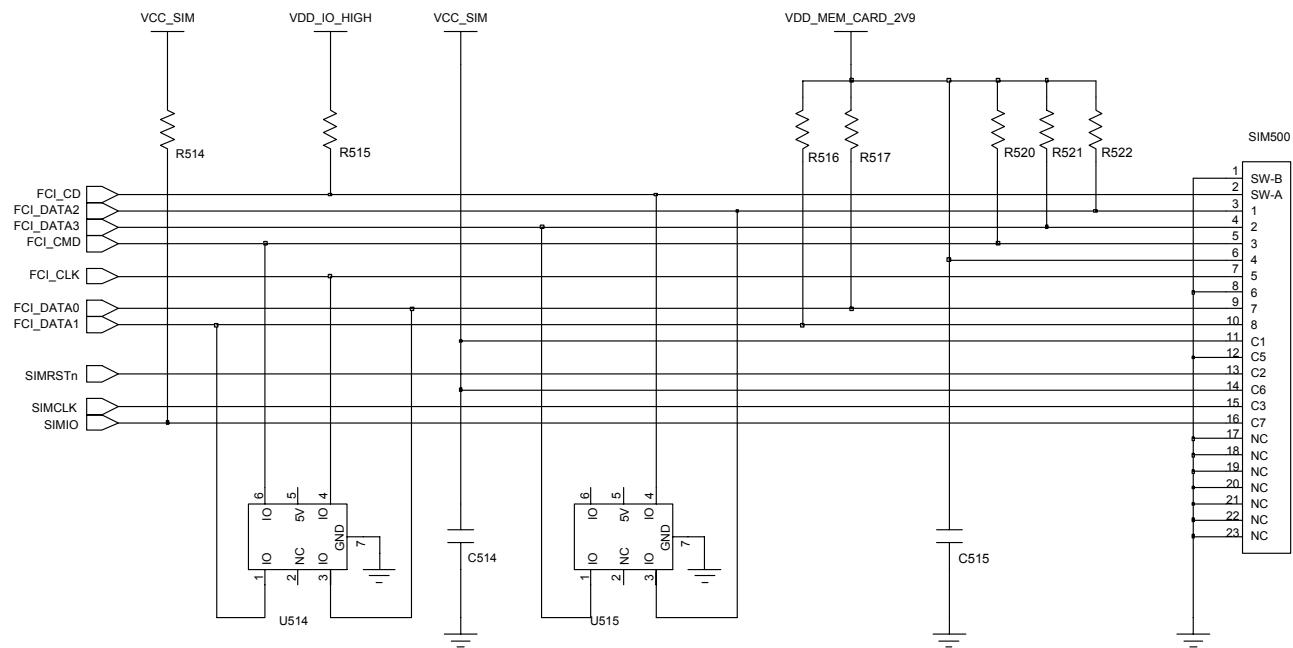
9-1-2. Initial



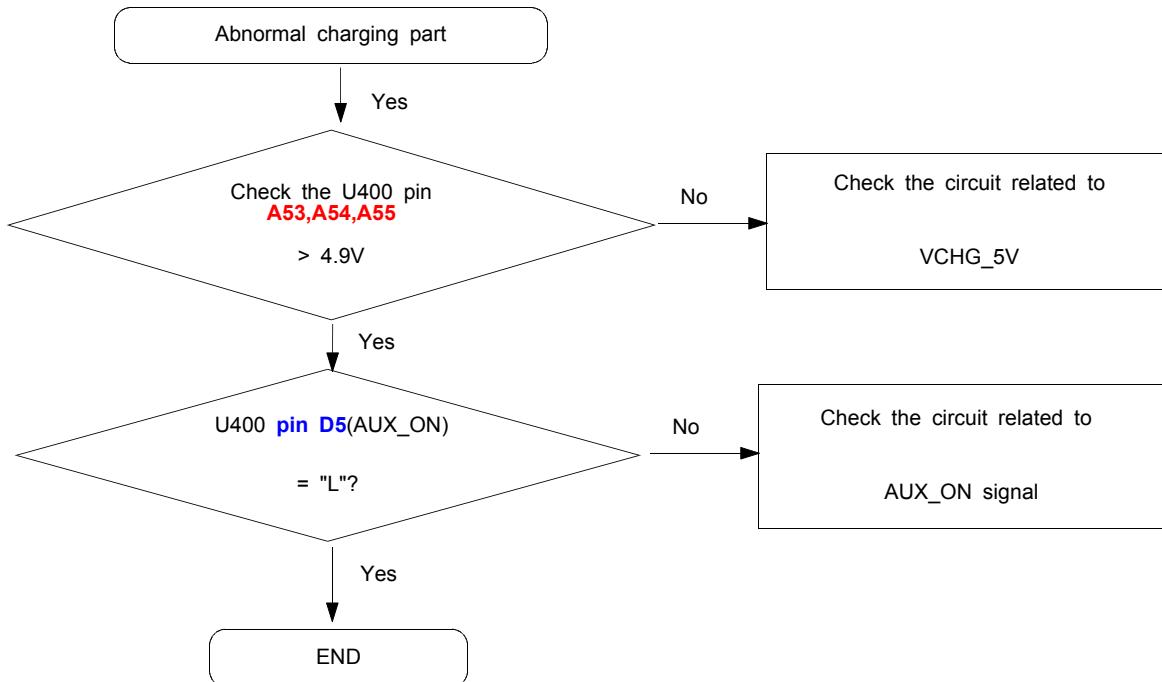


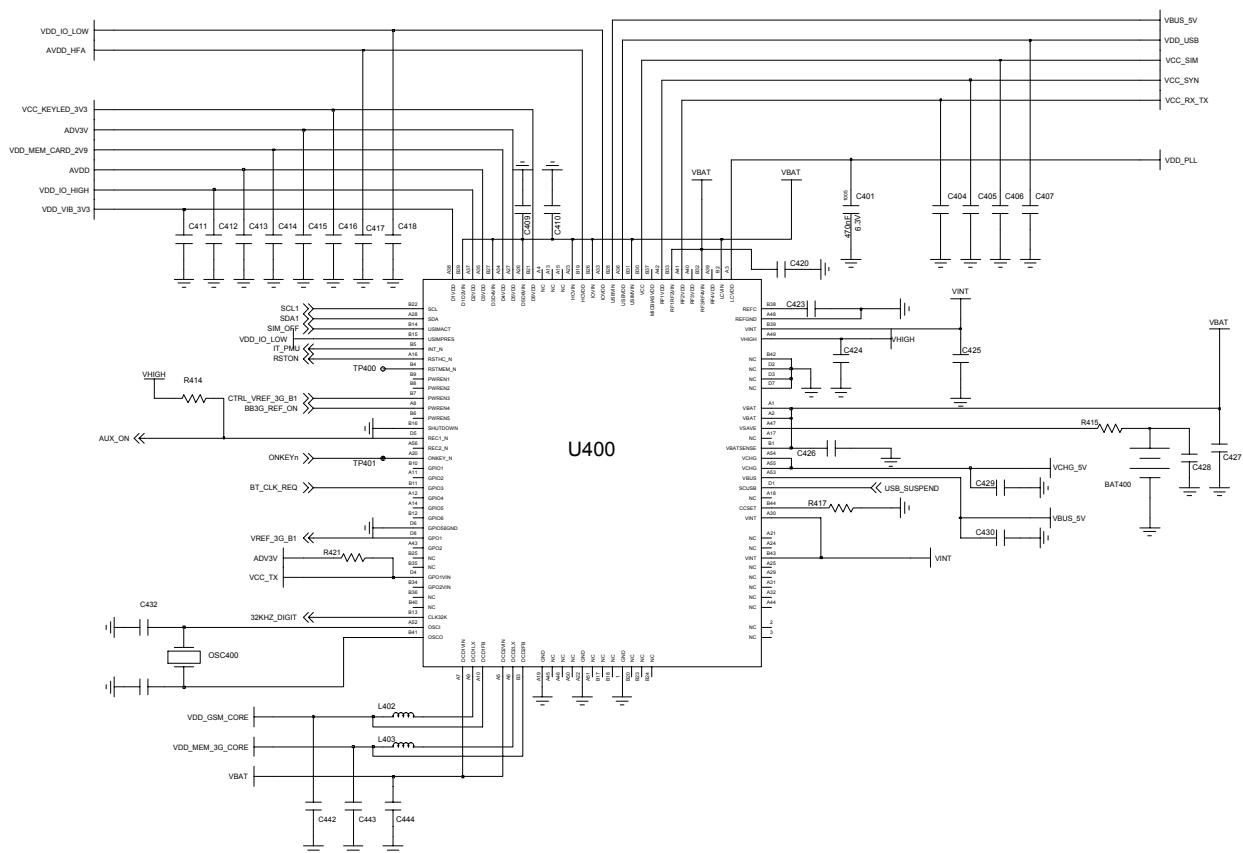
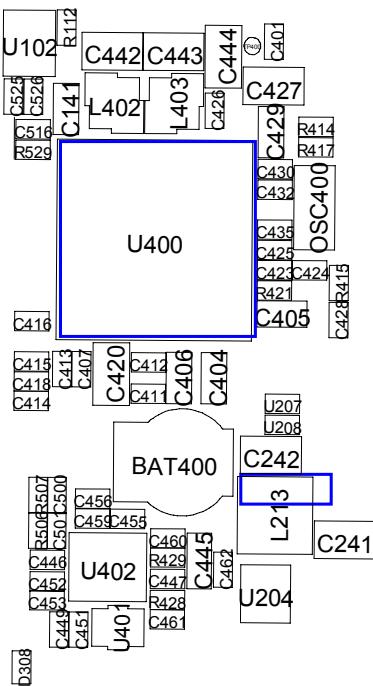
9-1-3. SIM Part



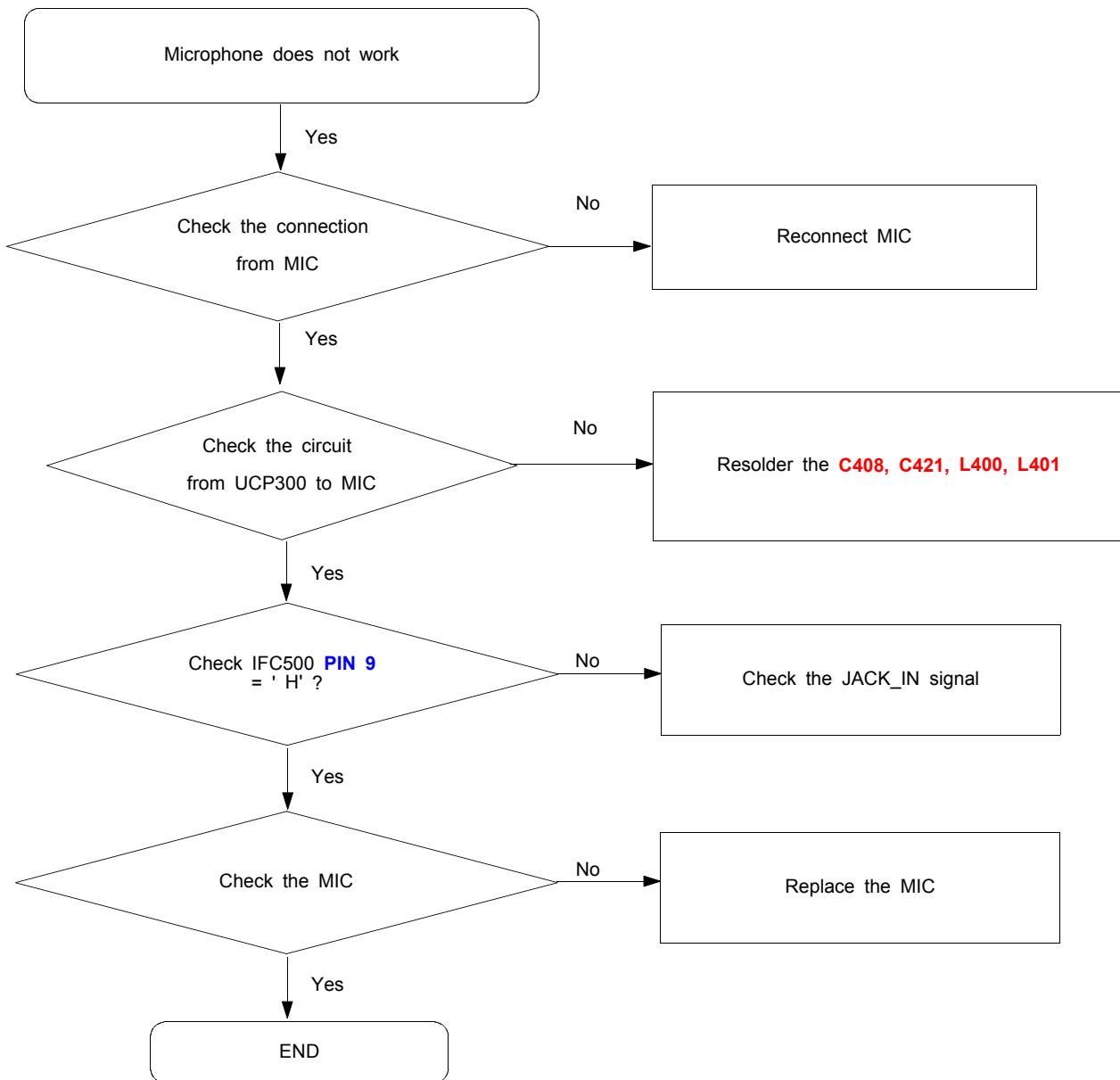


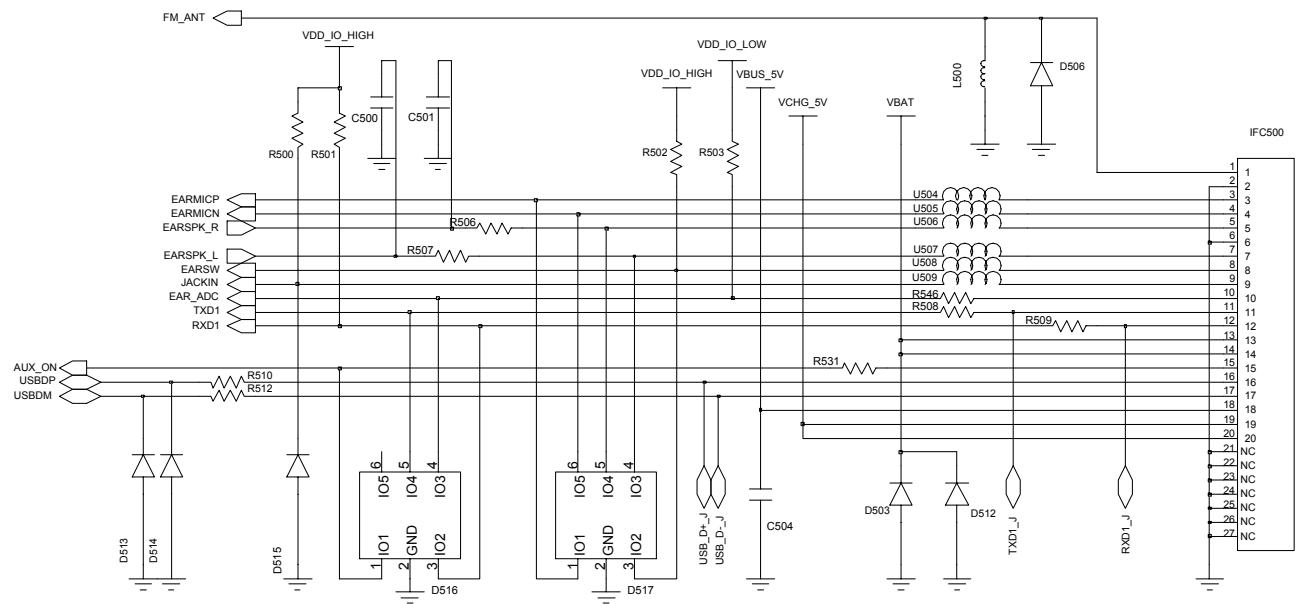
9-1-4. Charging Part



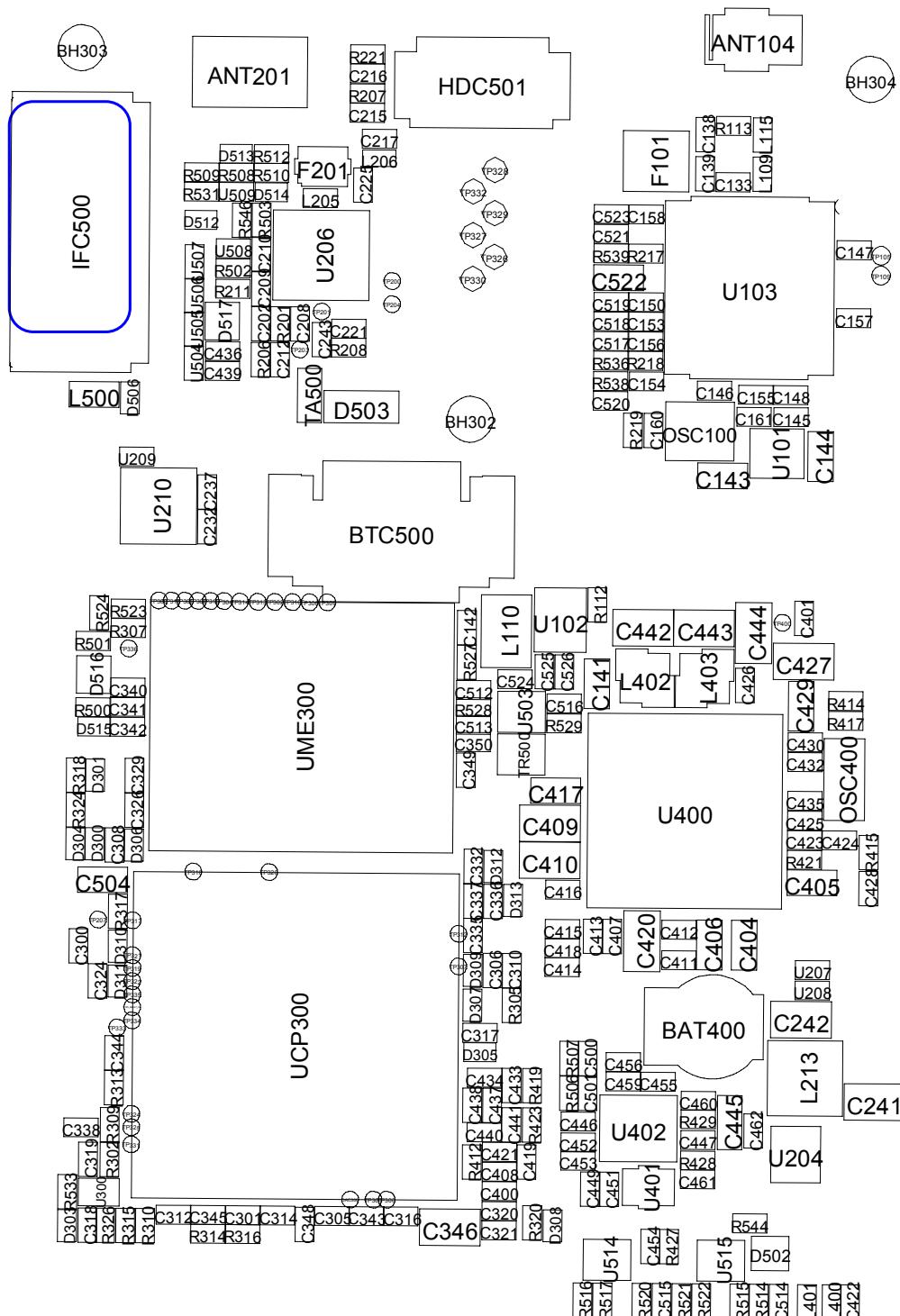


9-1-5. Microphone Part

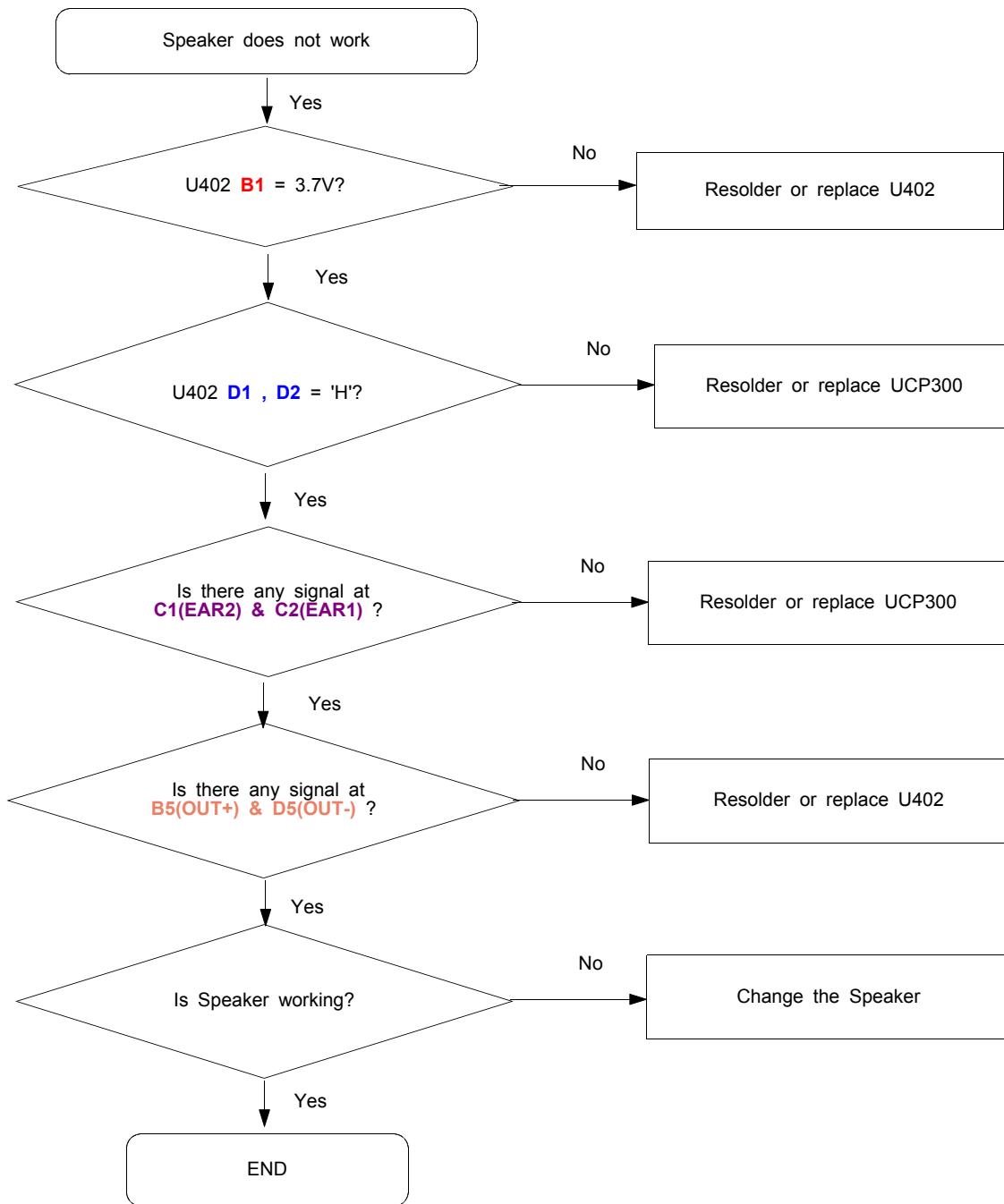




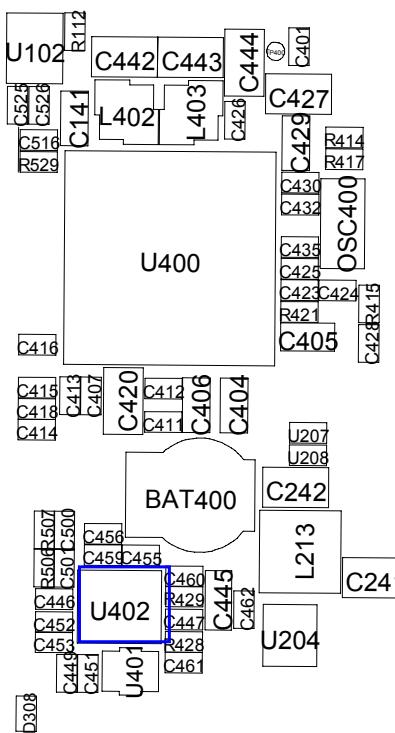
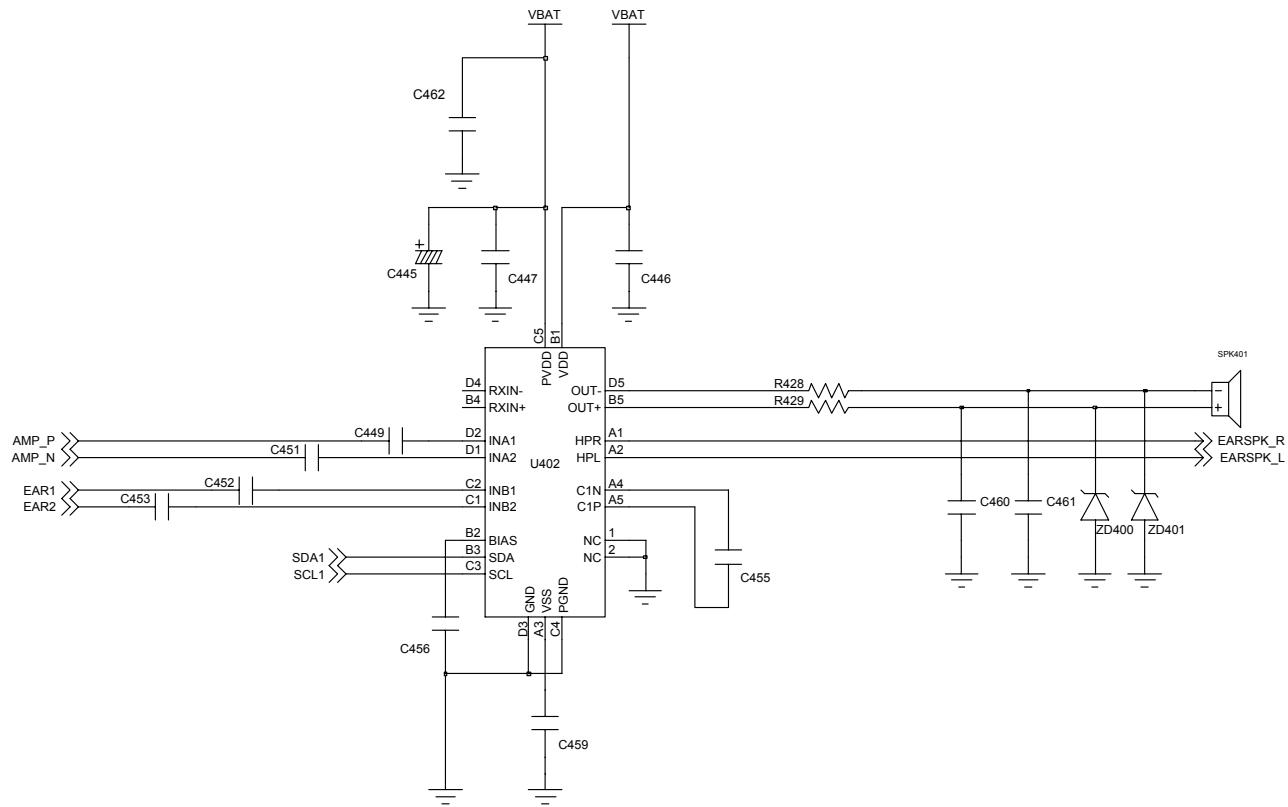
Flow Chart of Troubleshooting

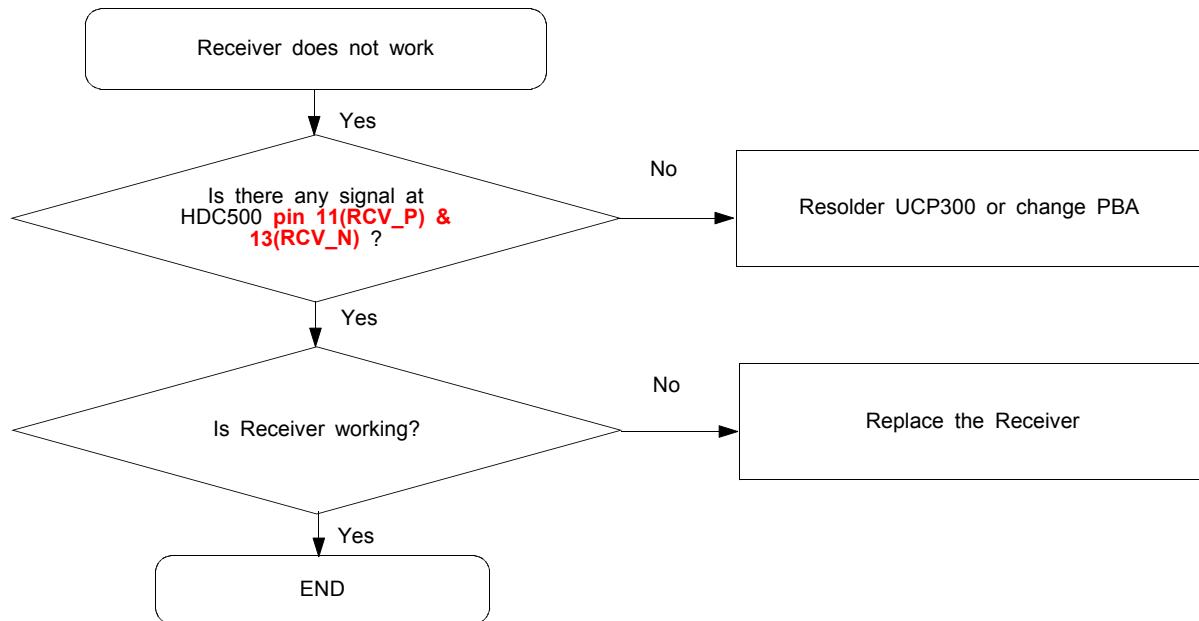


9-1-6. Speaker Part

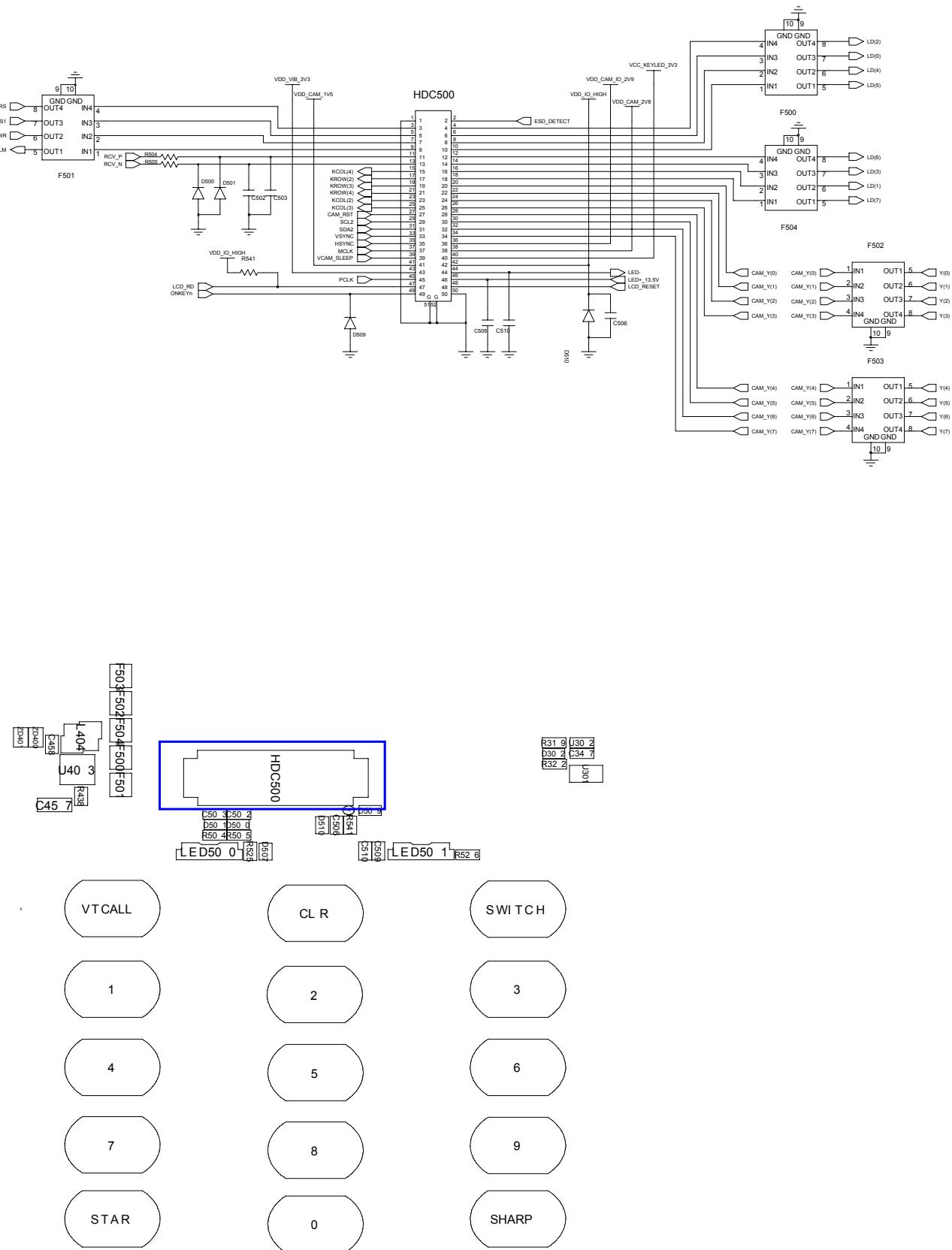


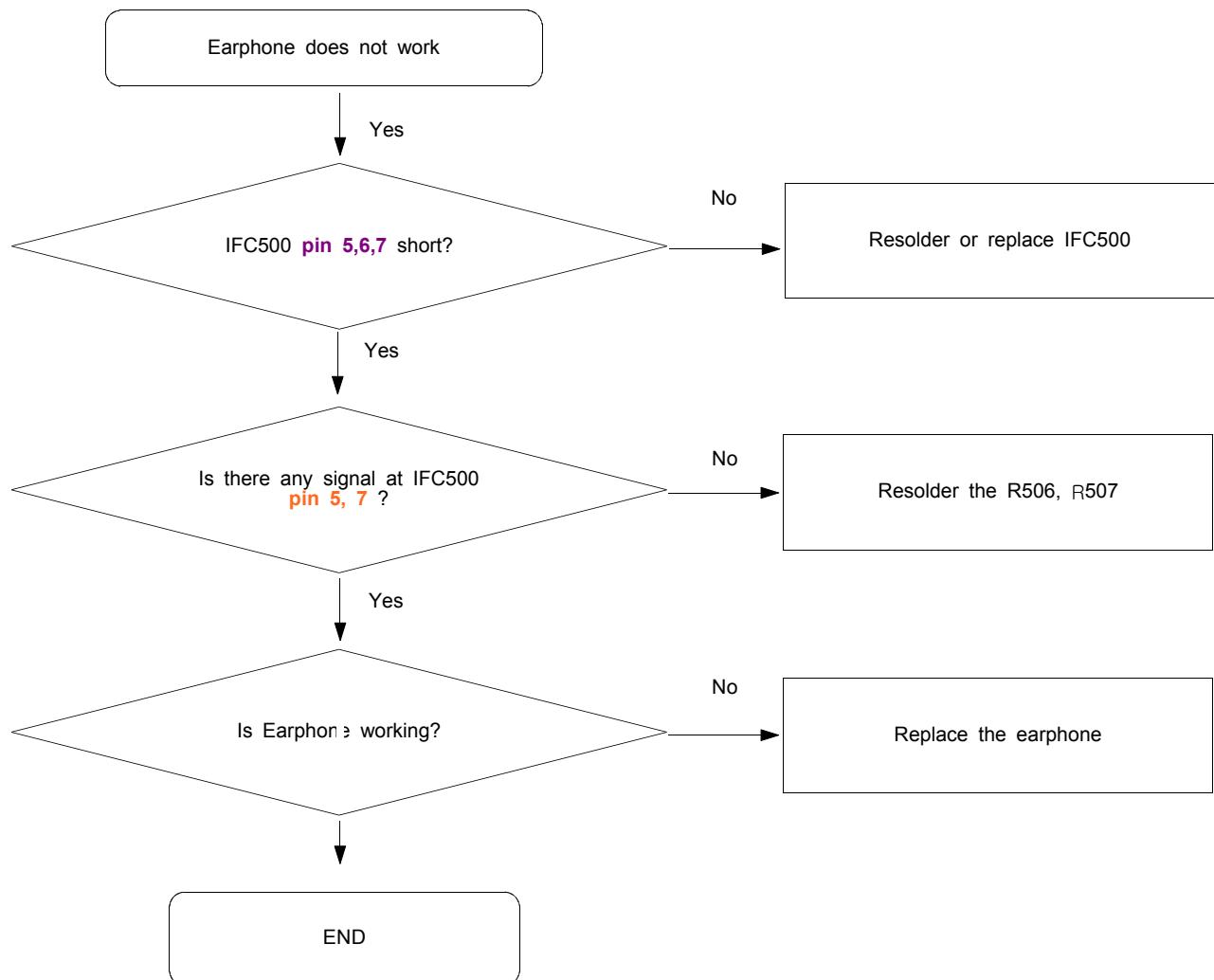
Flow Chart of Troubleshooting



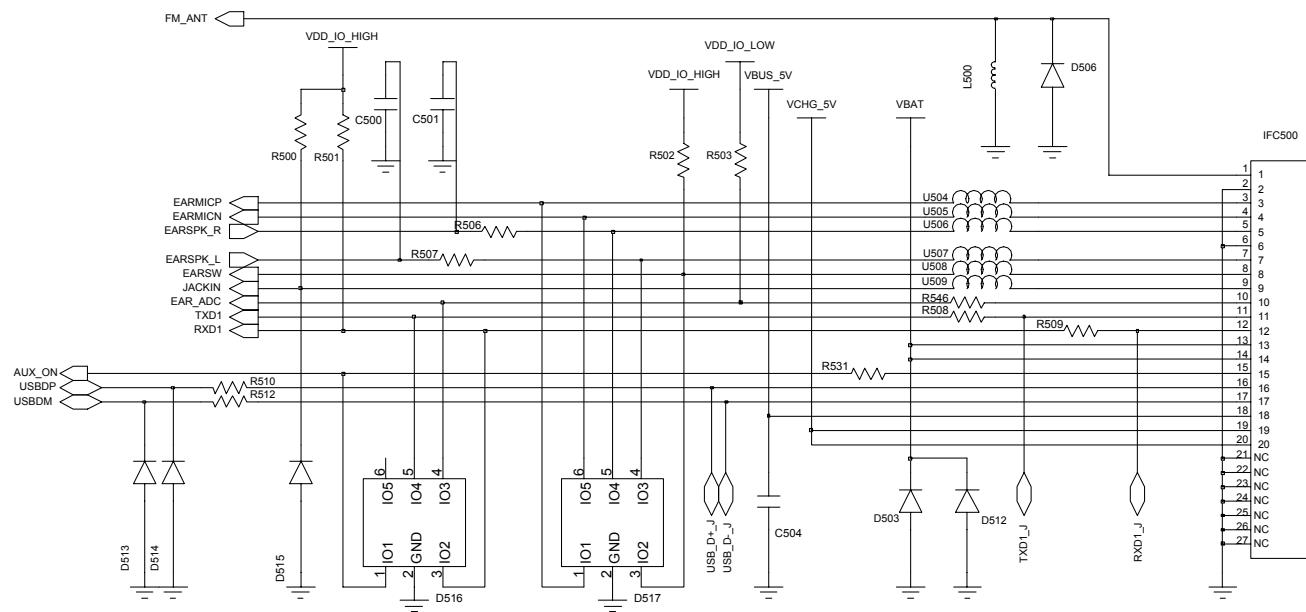
9-1-7. Receiver Part

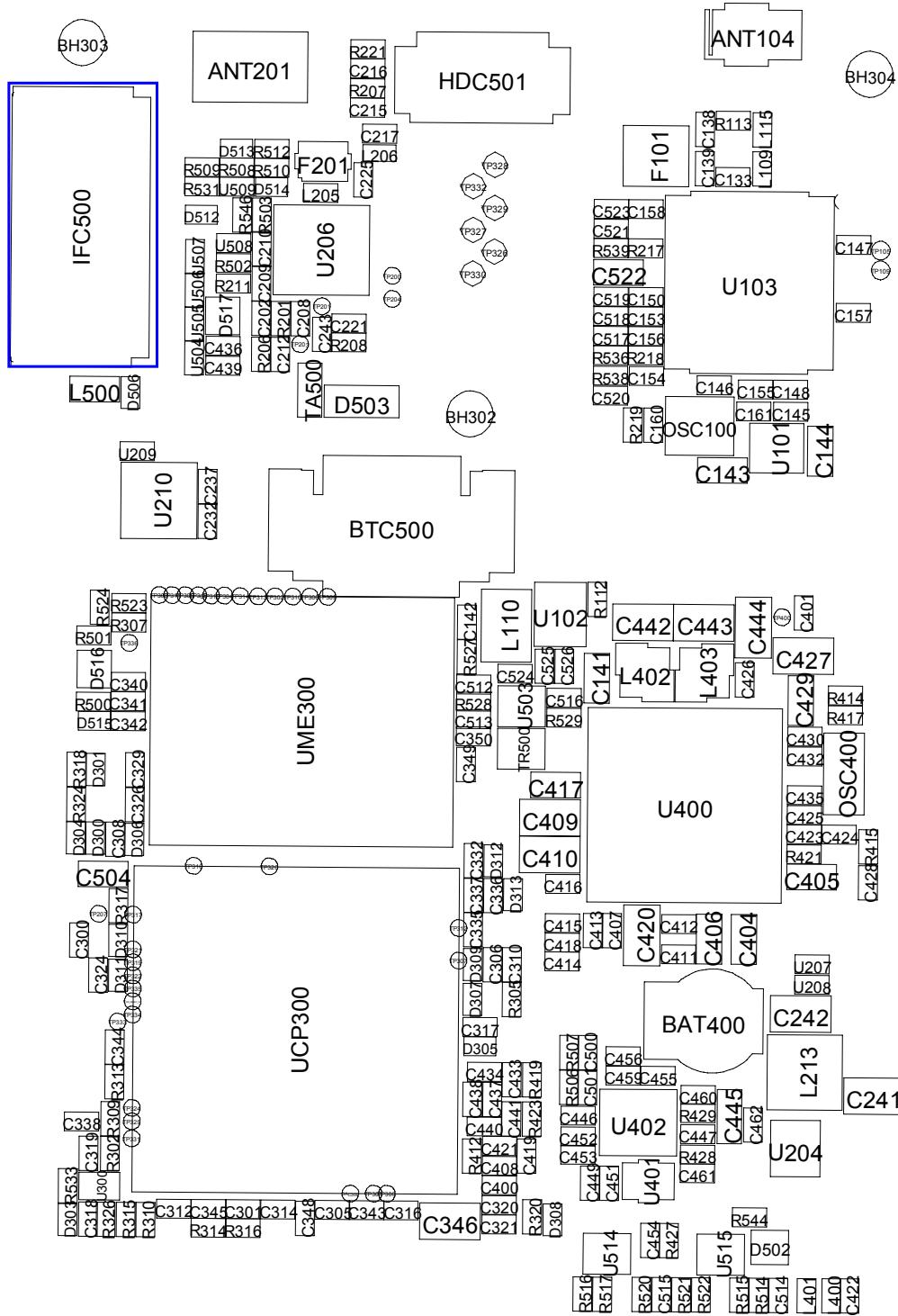
Flow Chart of Troubleshooting



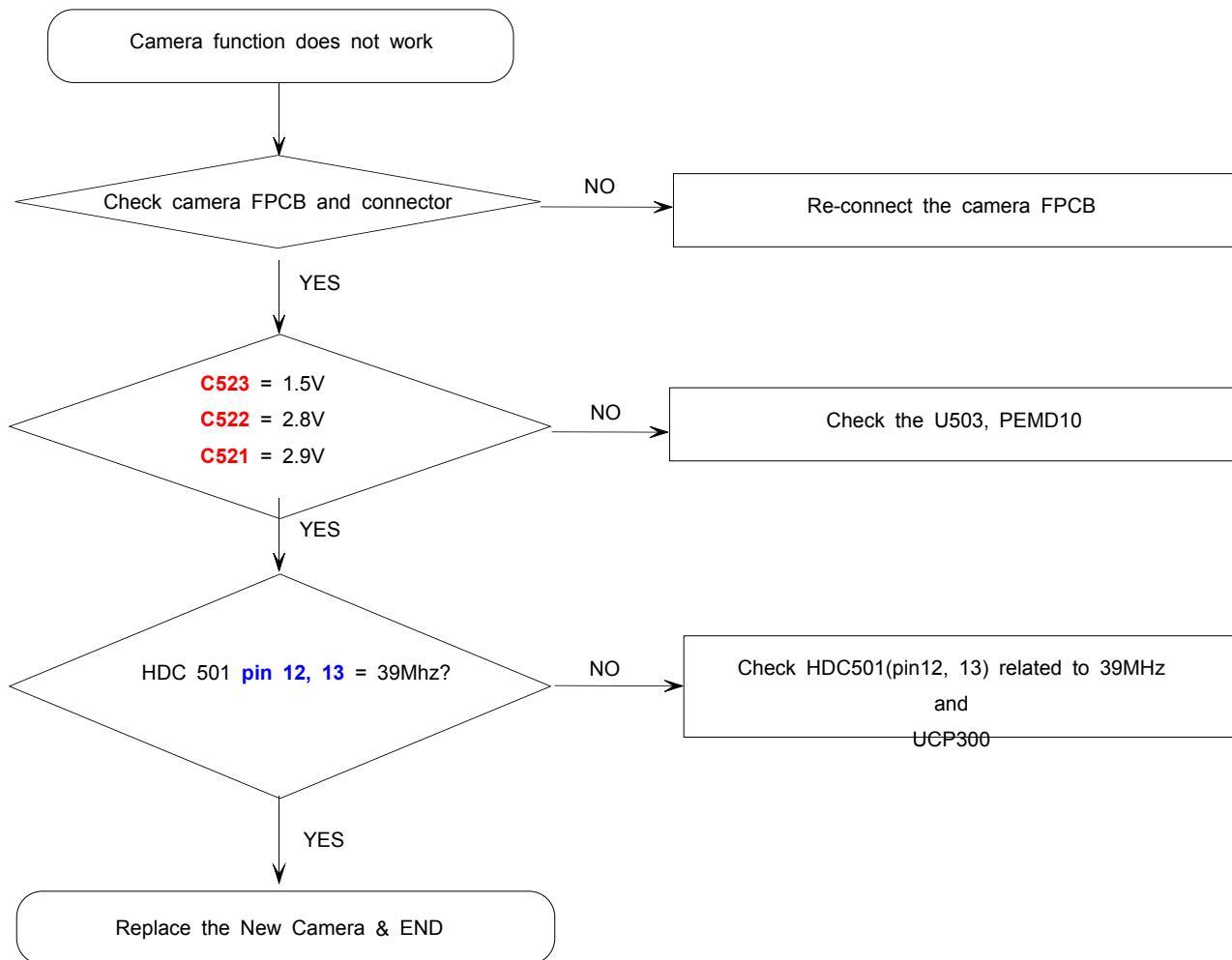
9-1-8. Headset Part

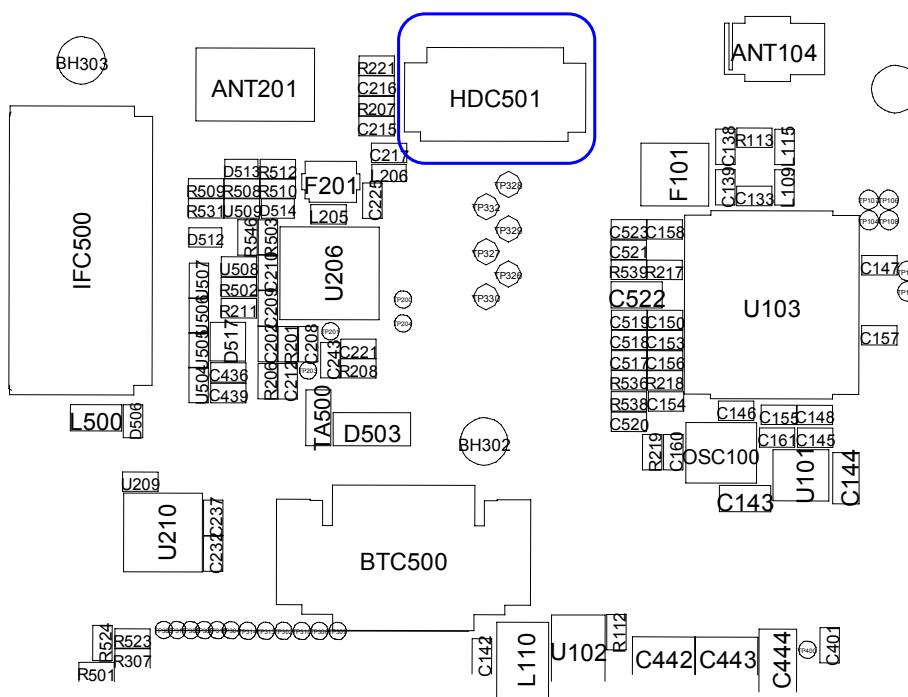
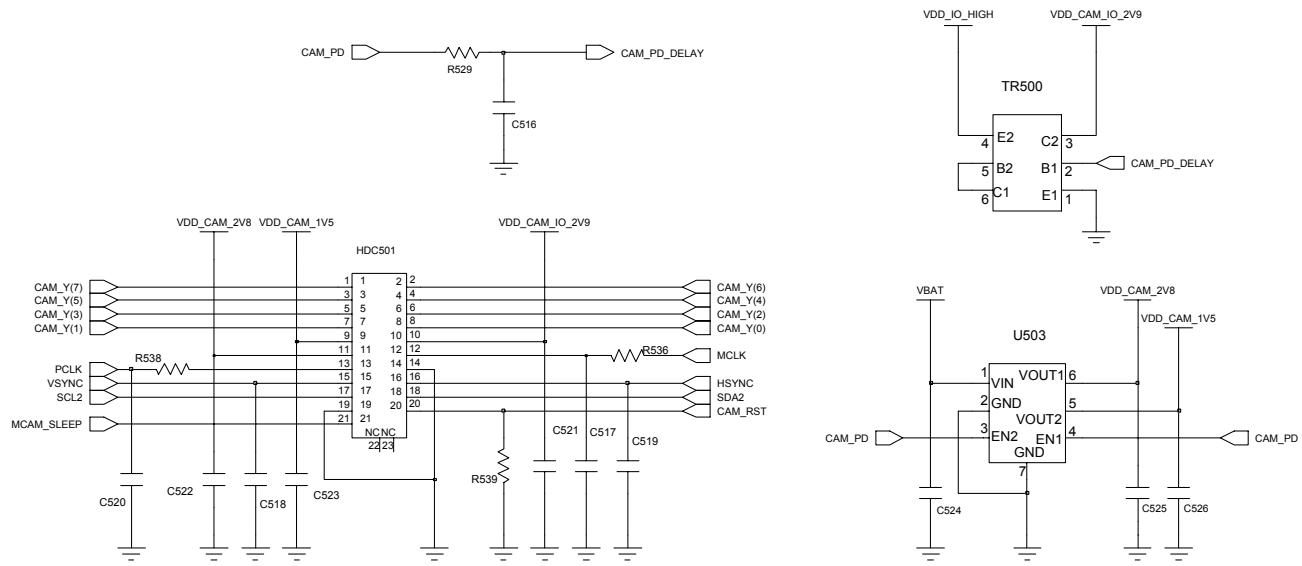
Flow Chart of Troubleshooting



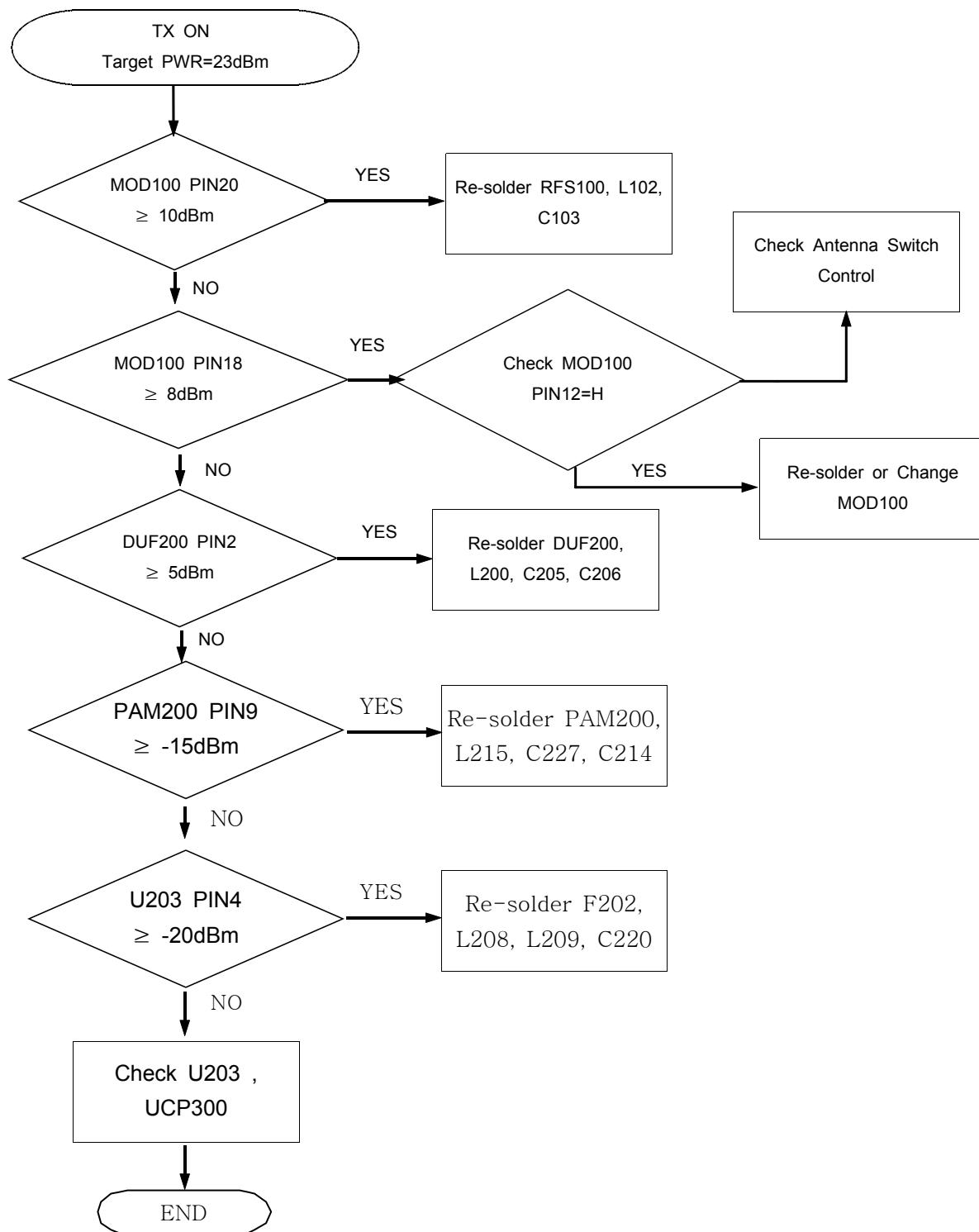


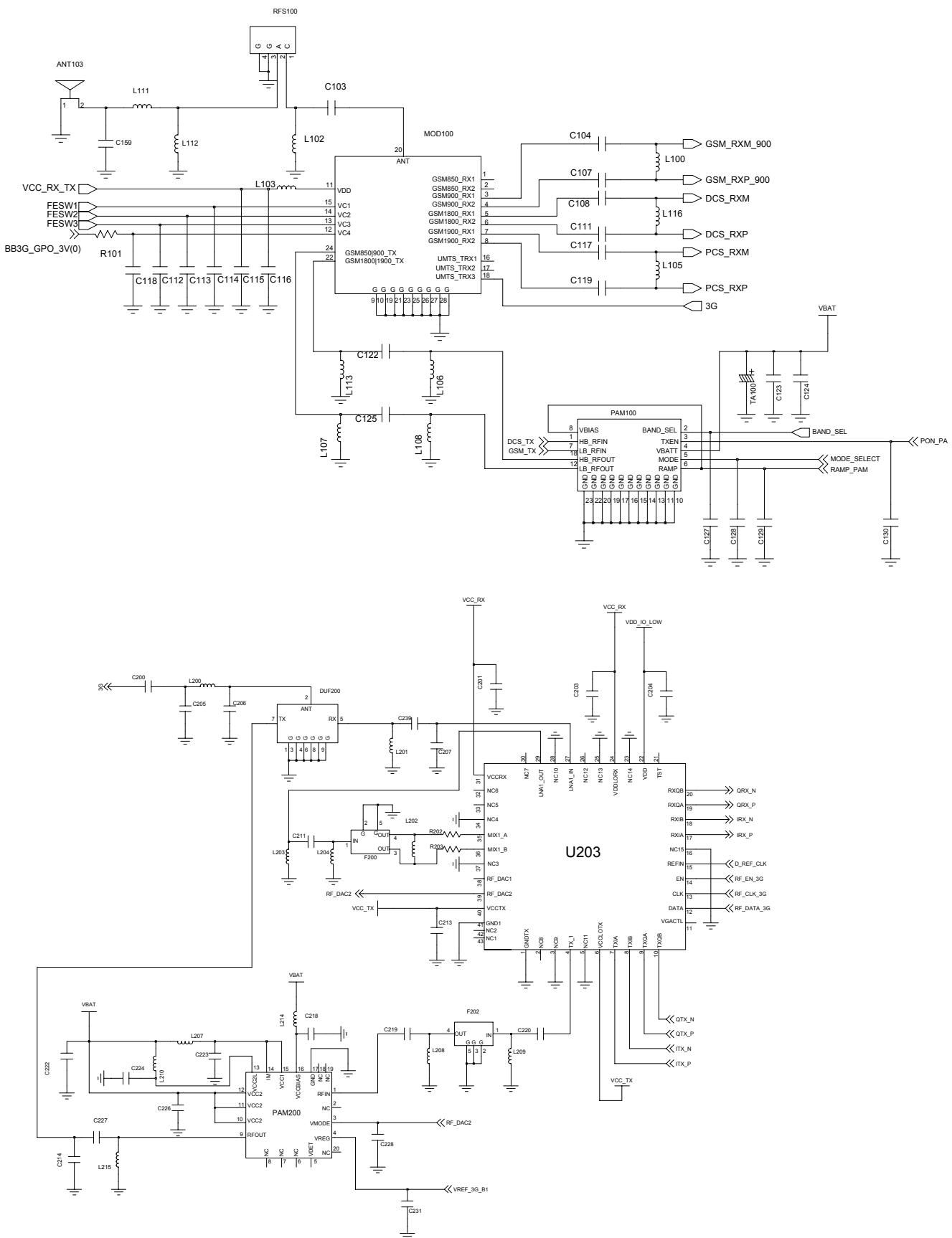
9-1-9. Camera Part (Mega and VGA)



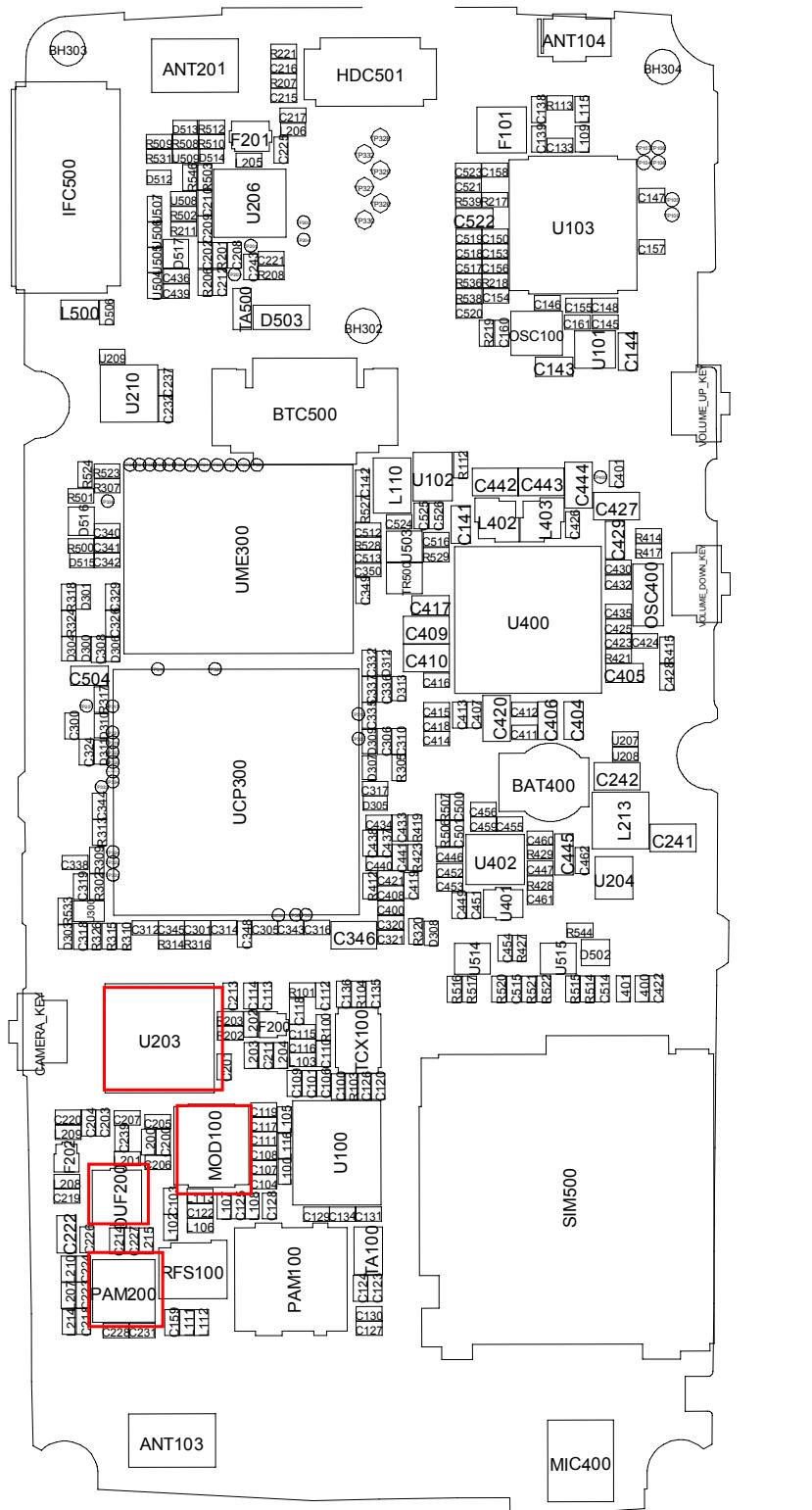


9-1. WCDMA TX

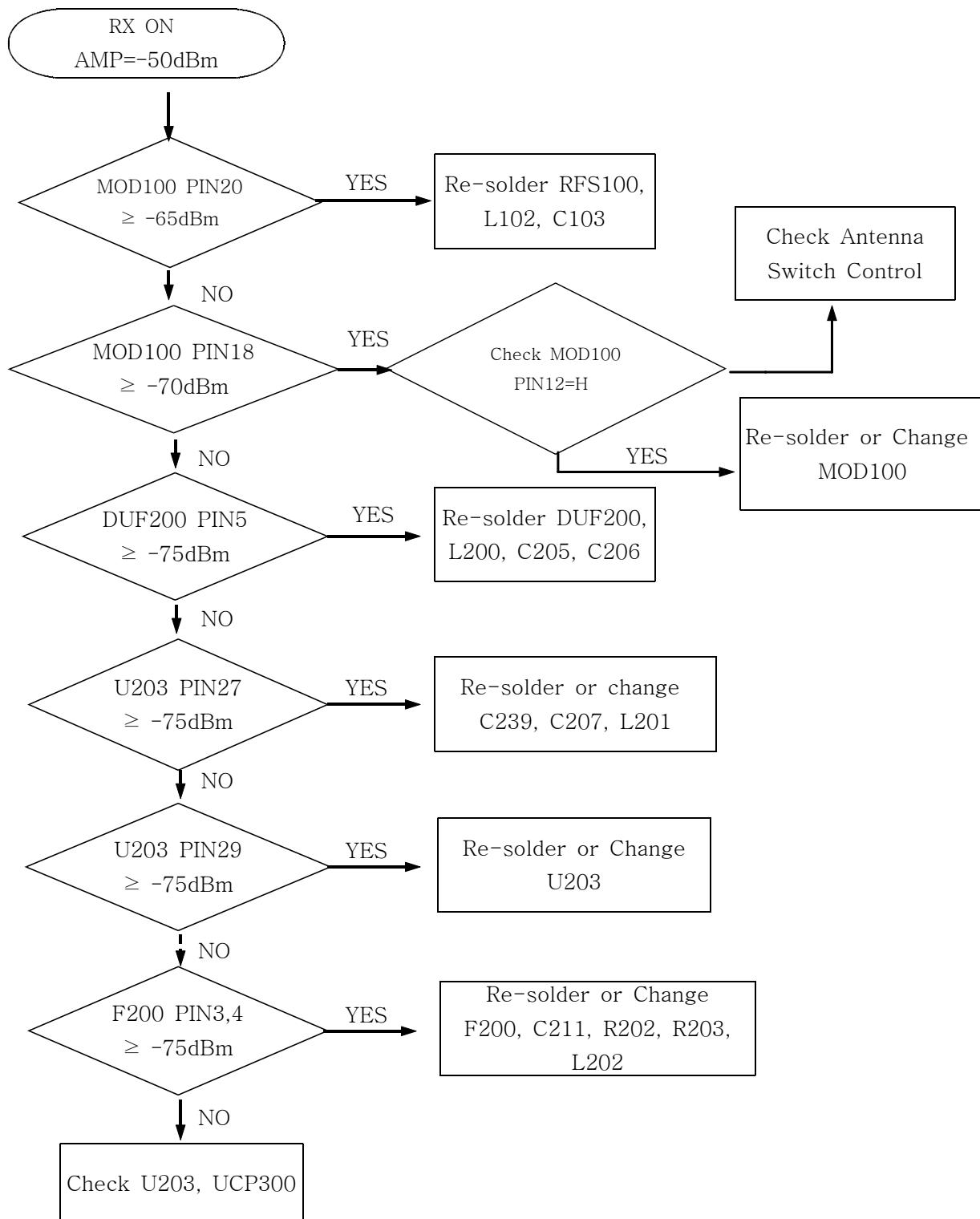




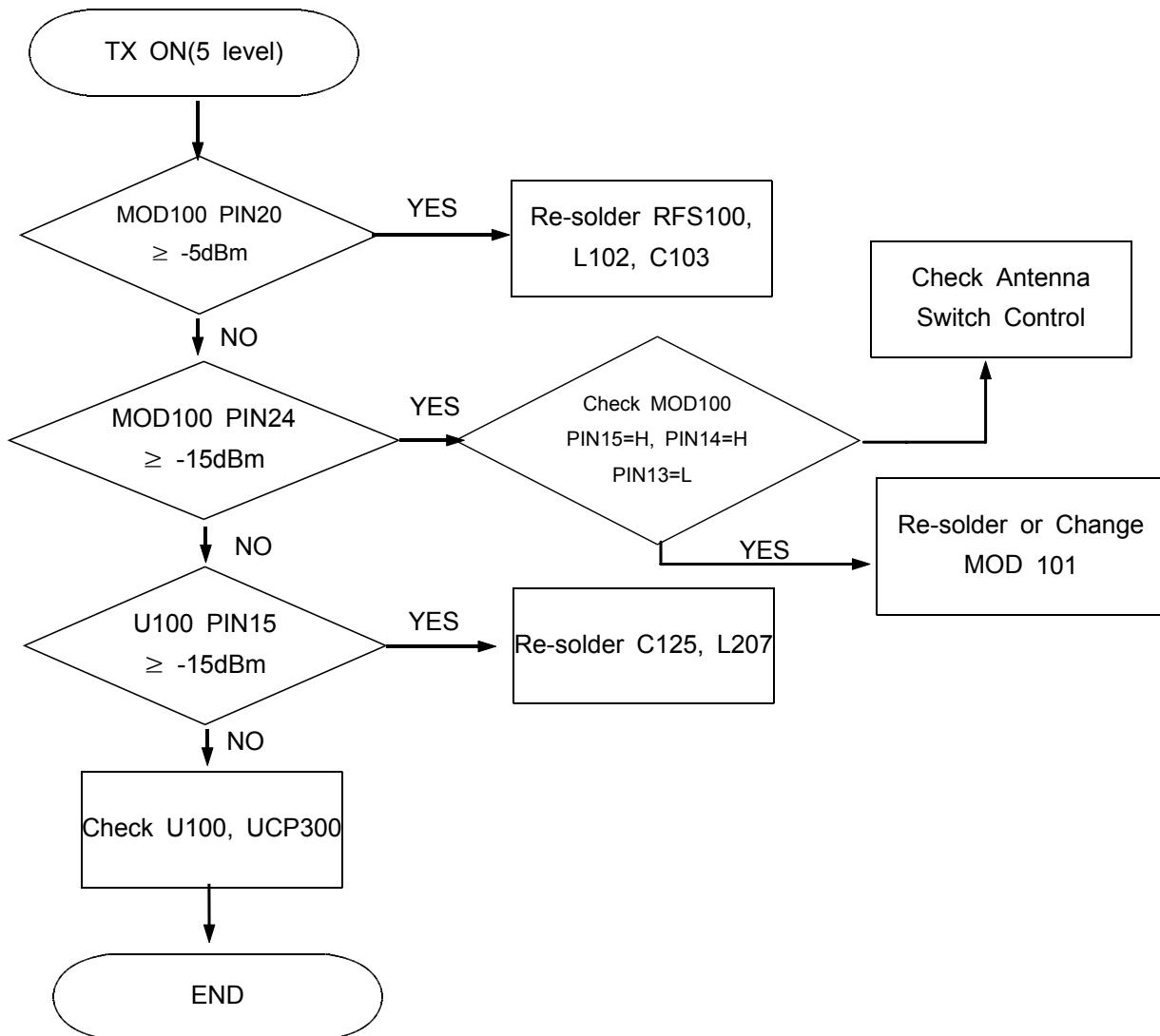
Flow Chart of Troubleshooting



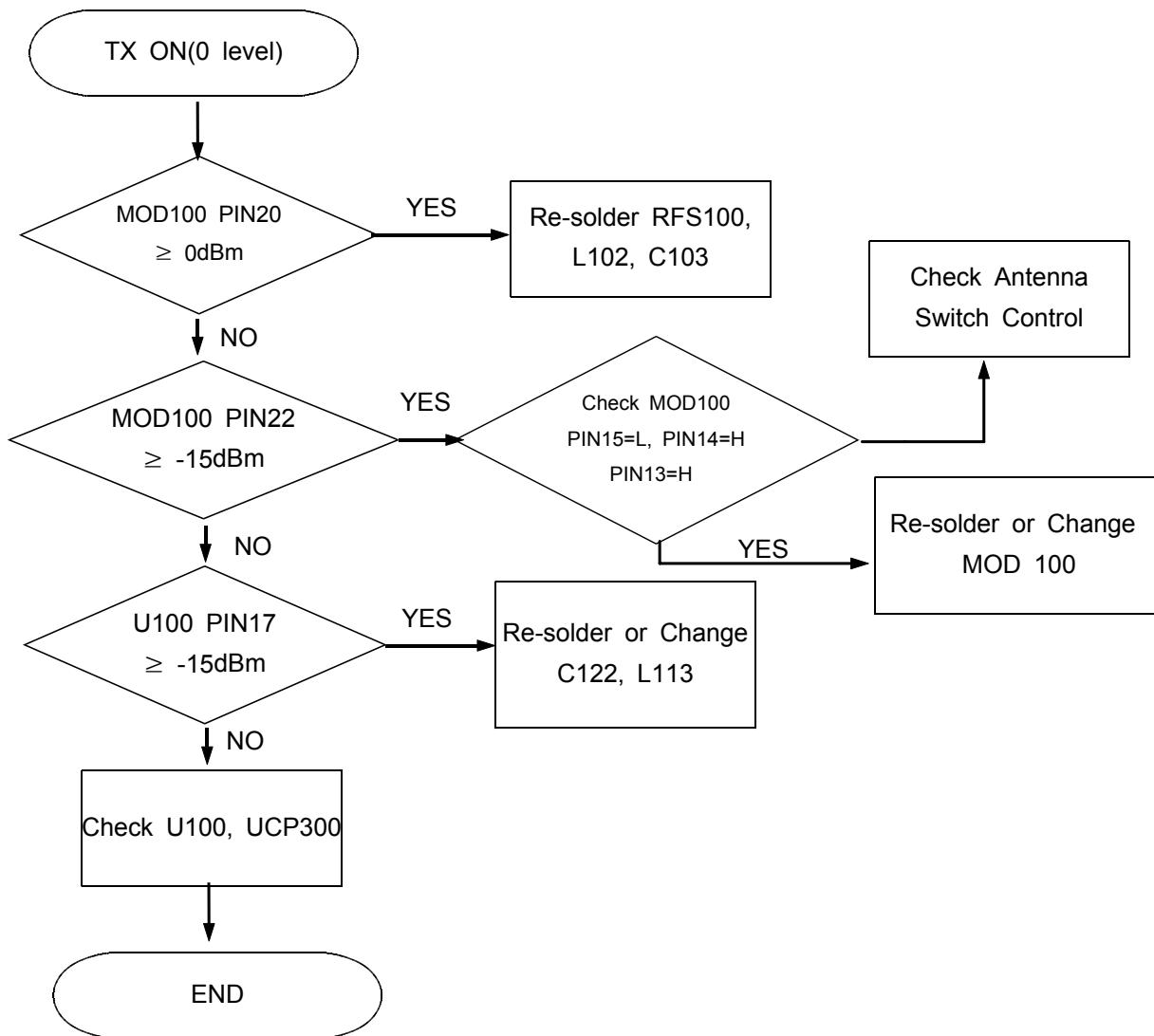
9-2. WCDMA RX



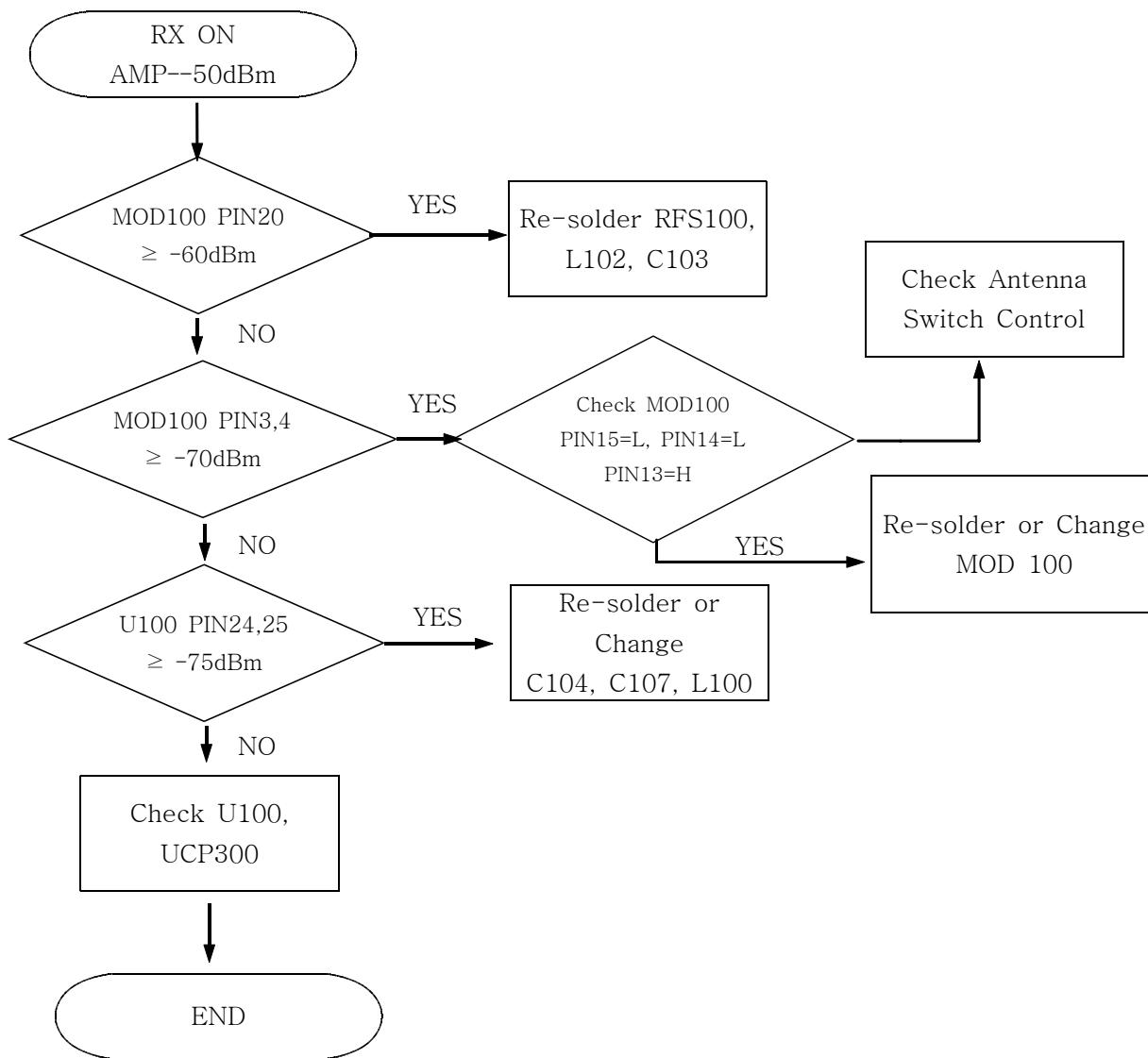
9-3. EGSM TX



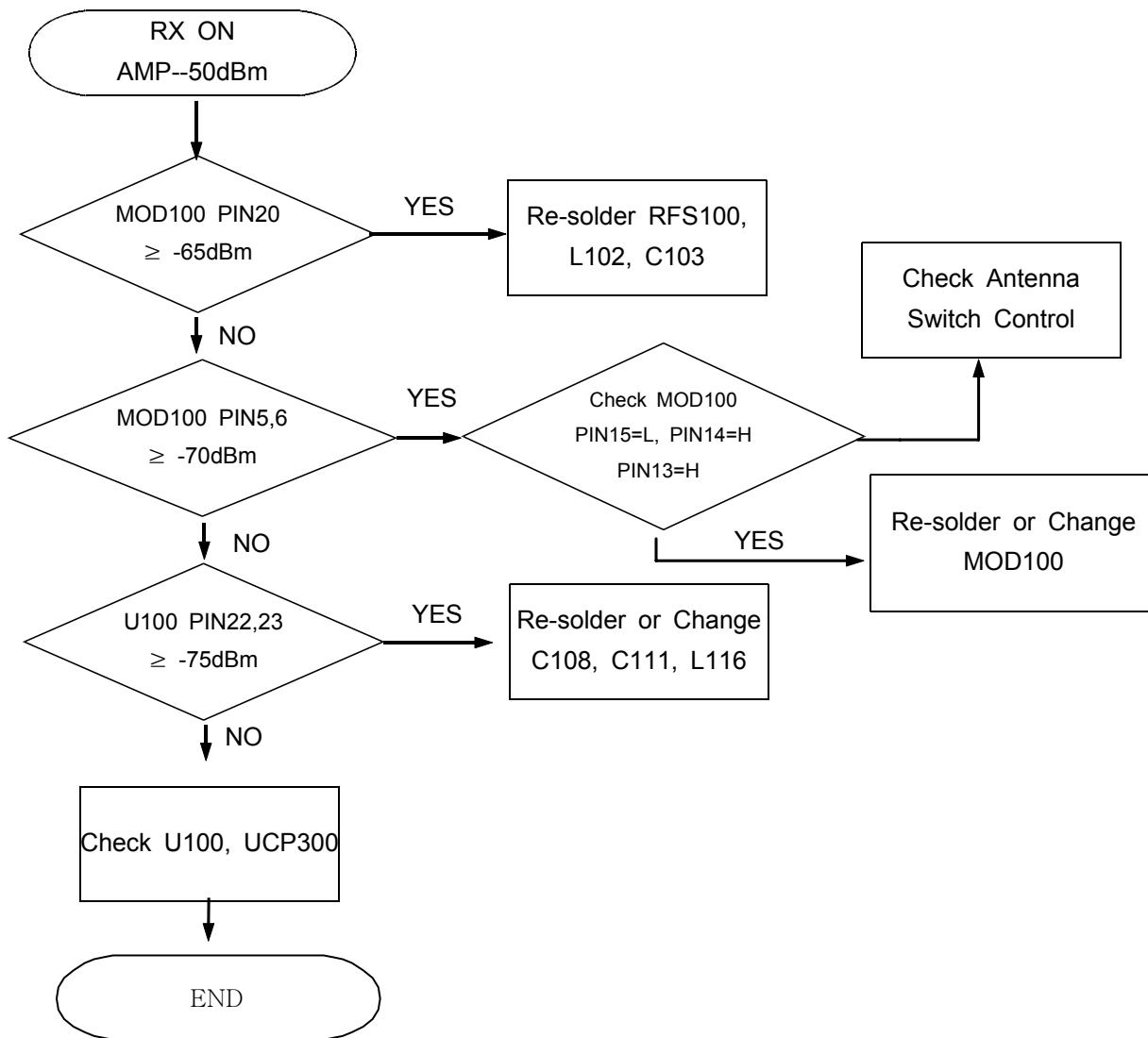
9-4. DCS/PCS TX



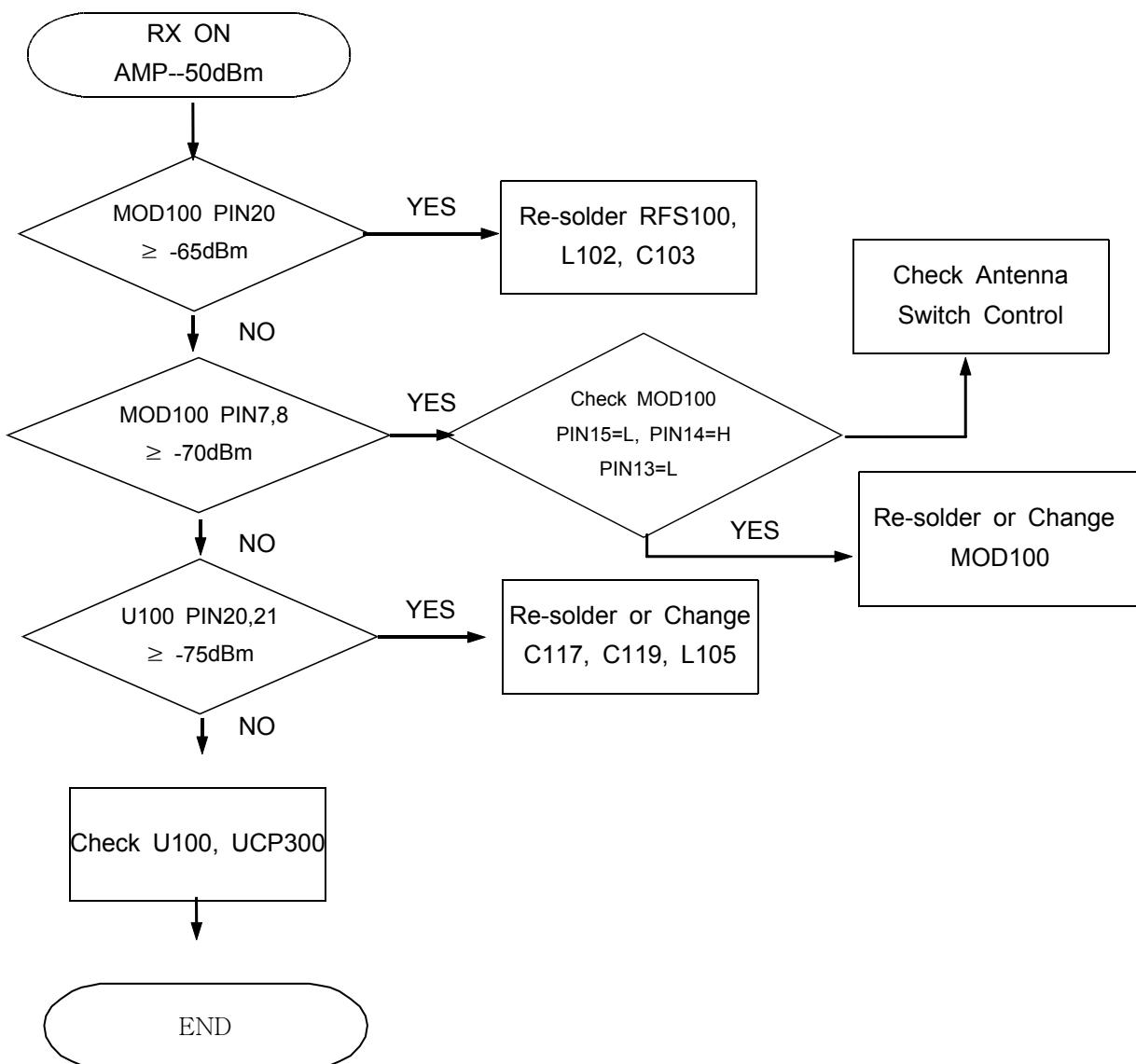
9-5. EGSM RX



9-6. DCS RX

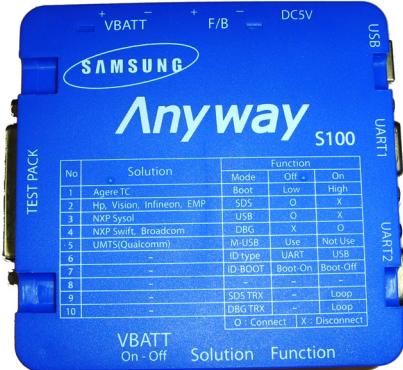


9-7. PCS RX



4. Array course control

4-1. Software Adjustments



Test Jig (GH99-36900A)



Test Cable (GH39-01160A)



RF Test Cable (GH39-00985A)



Adapter (GH99-38251A)

4-2. Software Downloading

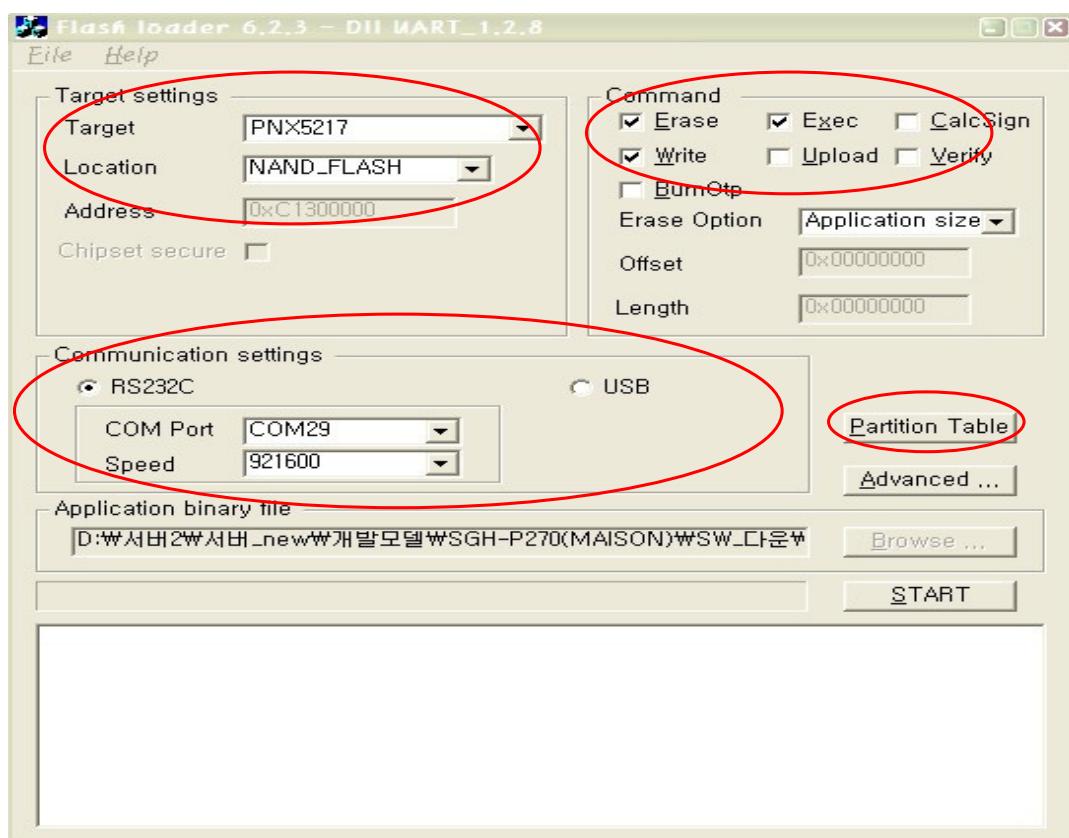
4-2-1. Pre-requisite for Downloading

- Downloader Program([Flash Loader 6.2.3](#))
- P270 Mobile Phone
- Data Cable
- Binary file

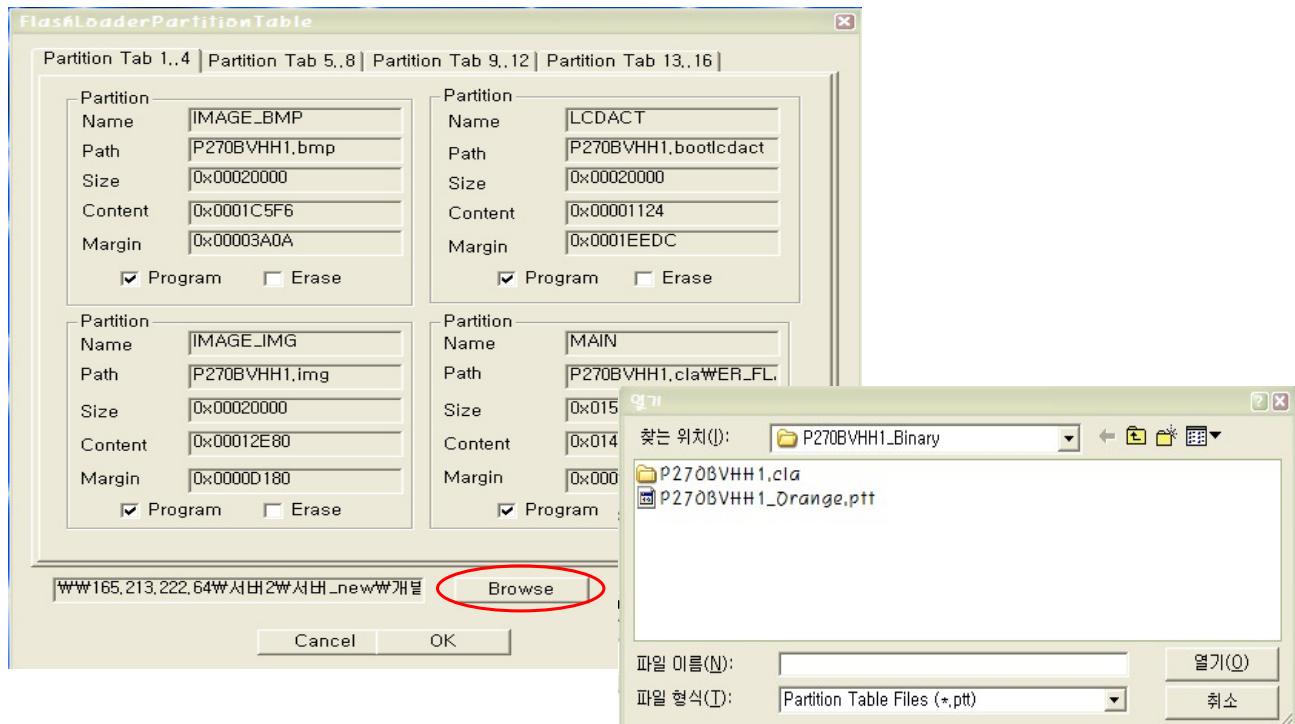
4-2-2. S/W Downloader Program

■ Load the binary download program by executing the
[“Flash Loader 6.2.3”](#)

1. Select target , Location and command check-box <Erase, Exec, Write>
2. Select the check box, the mode you want to download.
 - if you want to download by RS232C, check only 'RS232C'
 - if you want to download by USB, check only 'USB'
3. Click the Partition Table.



4. Click the Browse and select your binary file.



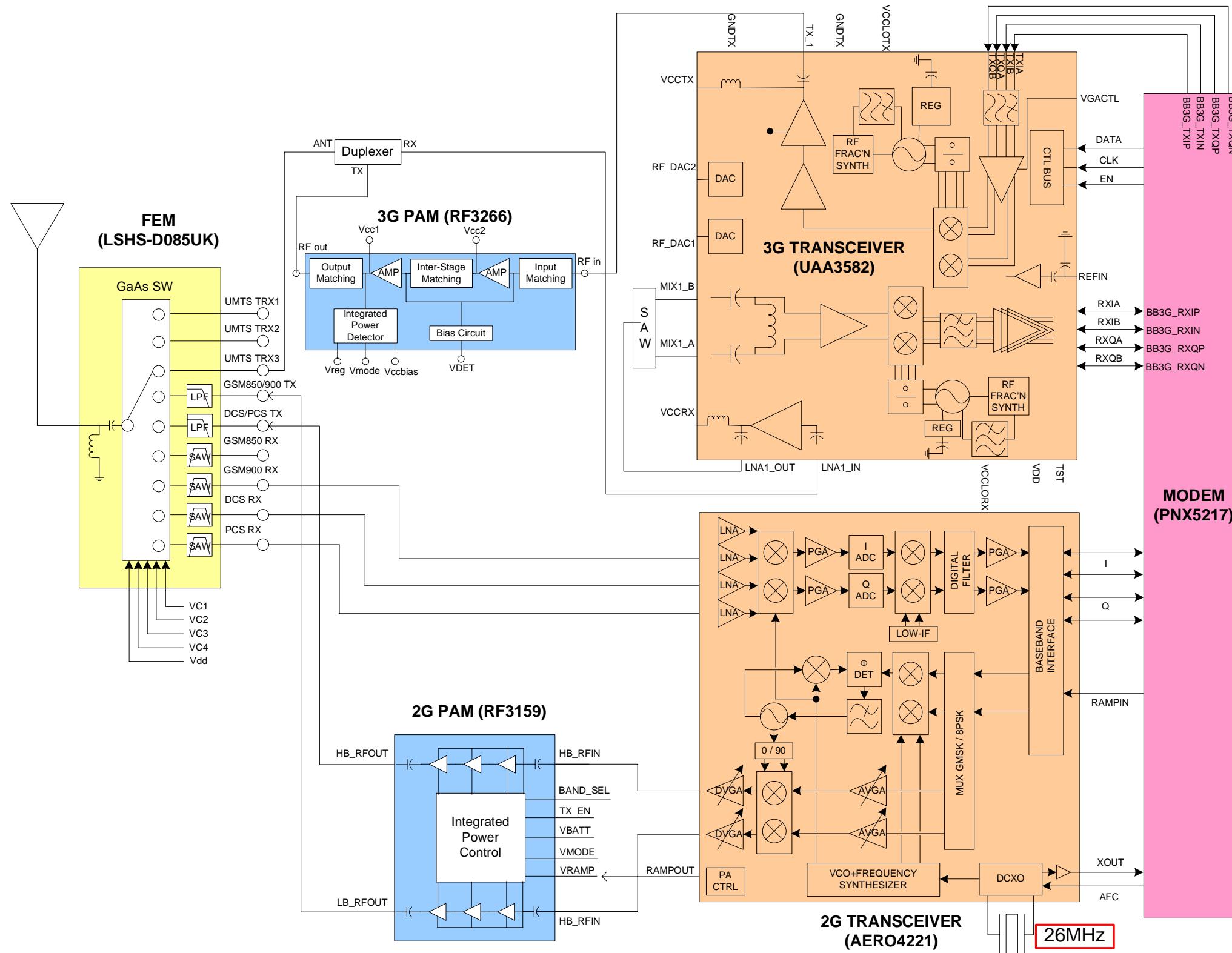
Partial Download Setting

• Caution

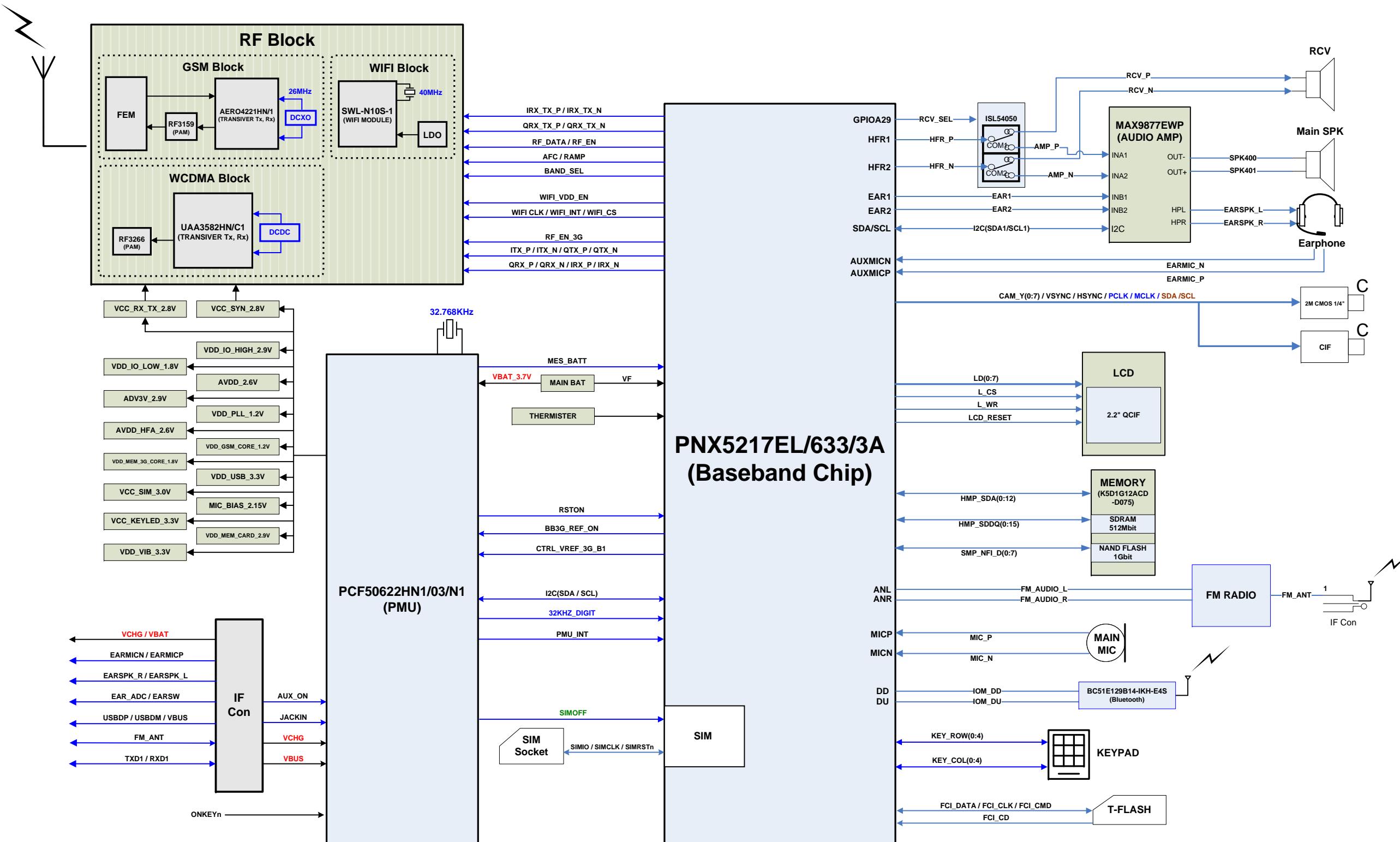
- If ptt file changed (address or offset or size value), you have to download full region. In this case, you can not download partition region.
- To download partial region ptt file must be same.

7. Block Diagrams

7-1. RF Solution Block Diagram



7-2. Base Band Solution Block Diagram



7-4. FM Radio Solution Block Diagram

6. MAIN Electrical Parts List

SEC CODE	Design LOC	Description
0403-001547	D503	DIODE-ZENER
0406-001237	D516	DIODE-TVS
0406-001237	D517	DIODE-TVS
0406-001254	ZD400	DIODE-TVS
0406-001254	ZD401	DIODE-TVS
0406-001256	U514	DIODE-TVS
0406-001256	U515	DIODE-TVS
0406-001281	D300	DIODE-TVS
0406-001281	D301	DIODE-TVS
0406-001281	D302	DIODE-TVS
0406-001281	D303	DIODE-TVS
0406-001281	D304	DIODE-TVS
0406-001281	D305	DIODE-TVS
0406-001281	D306	DIODE-TVS
0406-001281	D307	DIODE-TVS
0406-001281	D308	DIODE-TVS
0406-001281	D309	DIODE-TVS
0406-001281	D310	DIODE-TVS
0406-001281	D311	DIODE-TVS
0406-001281	D312	DIODE-TVS
0406-001281	D313	DIODE-TVS
0406-001281	D500	DIODE-TVS
0406-001281	D501	DIODE-TVS
0406-001281	D506	DIODE-TVS
0406-001281	D507	DIODE-TVS
0406-001281	D509	DIODE-TVS
0406-001281	D510	DIODE-TVS
0406-001281	D512	DIODE-TVS
0406-001281	D513	DIODE-TVS
0406-001281	D514	DIODE-TVS
0406-001281	D515	DIODE-TVS
0406-001321	D502	DIODE-TVS
0504-001151	TR500	TR-DIGITAL
0601-002048	LED500	LED
0601-002048	LED501	LED
1001-001453	U401	IC-ANALOG SWITCH

SEC CODE	Design LOC	Description
1009-001037	U301	IC-HALL EFFECT S/W
1108-000157	UME300	IC-MCP
1201-002423	PAM100	IC-POWER AMP
1201-002461	PAM200	IC-POWER AMP
1201-002733	U402	IC-AUDIO AMP
1203-004247	U403	IC-DC/DC CONVERTER
1203-004395	U101	IC-POSI.FIXED REG.
1203-004548	U102	IC-DC/DC CONVERTER
1203-004883	U503	IC-MULTI REG.
1203-005254	U400	IC-POWER SUPERVISOR
1203-005408	U204	IC-DC/DC CONVERTER
1204-002906	U210	IC-DEMODULATOR
1205-003283	U100	IC-TRANSCEIVER
1205-003494	U203	IC-TRANSCEIVER
1205-003517	U206	IC-BLUETOOTH
1205-003601	UCP300	IC-MODEM
1209-001712	U300	IC-SENSOR
2007-000138	R427	R-CHIP
2007-000138	R544	R-CHIP
2007-000140	R101	R-CHIP
2007-000140	R307	R-CHIP
2007-000143	R103	R-CHIP
2007-000143	R520	R-CHIP
2007-000144	R415	R-CHIP
2007-000148	R305	R-CHIP
2007-000148	R309	R-CHIP
2007-000148	R319	R-CHIP
2007-000148	R412	R-CHIP
2007-000148	R501	R-CHIP
2007-000148	R514	R-CHIP
2007-000148	R523	R-CHIP
2007-000148	R529	R-CHIP
2007-000148	R533	R-CHIP
2007-000149	R310	R-CHIP
2007-000152	R524	R-CHIP
2007-000157	R211	R-CHIP

SEC CODE	Design LOC	Description
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2007-000159	R517	R-CHIP
2007-000159	R521	R-CHIP
2007-000159	R522	R-CHIP
2007-000162	R414	R-CHIP
2007-000162	R515	R-CHIP
2007-000162	R539	R-CHIP
2007-000162	R541	R-CHIP
2007-000168	R206	R-CHIP
2007-000170	R112	R-CHIP
2007-000171	R308	R-CHIP
2007-000171	R311	R-CHIP
2007-000171	R312	R-CHIP
2007-000171	R321	R-CHIP
2007-000171	R323	R-CHIP
2007-000171	R420	R-CHIP
2007-000242	R419	R-CHIP
2007-000242	R423	R-CHIP
2007-000566	R528	R-CHIP
2007-000758	R527	R-CHIP
2007-000775	R320	R-CHIP
2007-001292	R510	R-CHIP
2007-001292	R512	R-CHIP
2007-001308	R508	R-CHIP
2007-001308	R509	R-CHIP
2007-001308	R531	R-CHIP
2007-001313	R100	R-CHIP
2007-001319	R313	R-CHIP
2007-001319	R314	R-CHIP
2007-001319	R315	R-CHIP
2007-001319	R316	R-CHIP
2007-001333	R500	R-CHIP
2007-001333	R502	R-CHIP
2007-001339	R503	R-CHIP
2007-002796	R208	R-CHIP
2007-003015	R201	R-CHIP

SEC CODE	Design LOC	Description
2007-003015	R546	R-CHIP
2007-003022	R506	R-CHIP
2007-003022	R507	R-CHIP
2007-003025	R525	R-CHIP
2007-003025	R526	R-CHIP
2007-007090	R417	R-CHIP
2007-007139	R217	R-CHIP
2007-007139	R218	R-CHIP
2007-007139	R219	R-CHIP
2007-007142	R318	R-CHIP
2007-007142	R324	R-CHIP
2007-007310	R104	R-CHIP
2007-007586	R302	R-CHIP
2203-000233	C118	C-CER,CHIP
2203-000233	C136	C-CER,CHIP
2203-000233	C200	C-CER,CHIP
2203-000233	C219	C-CER,CHIP
2203-000233	C343	C-CER,CHIP
2203-000254	C202	C-CER,CHIP
2203-000254	C204	C-CER,CHIP
2203-000254	C225	C-CER,CHIP
2203-000254	C338	C-CER,CHIP
2203-000254	C424	C-CER,CHIP
2203-000278	C101	C-CER,CHIP
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2203-000438	C221	C-CER,CHIP

SEC CODE	Design LOC	Description
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2203-000679	C517	C-CER,CHIP
2203-000696	C437	C-CER,CHIP
2203-000725	C110	C-CER,CHIP
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2203-001259	C436	C-CER,CHIP
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2203-002709	C339	C-CER,CHIP

SEC CODE	Design LOC	Description
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2203-006048	C135	C-CER,CHIP

SEC CODE	Design LOC	Description
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2203-006257	C401	C-CER,CHIP
2203-006257	C407	C-CER,CHIP
2203-006257	C411	C-CER,CHIP

SEC CODE	Design LOC	Description
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2203-006257	C416	C-CER,CHIP
2203-006257	C418	C-CER,CHIP
2203-006260	C305	C-CER,CHIP
2203-006260	C322	C-CER,CHIP
2203-006260	C324	C-CER,CHIP
2203-006260	C326	C-CER,CHIP
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2203-006260	C452	C-CER,CHIP
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2203-006324	C141	C-CER,CHIP
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2203-006348	C429	C-CER,CHIP
2203-006361	C409	C-CER,CHIP
2203-006361	C410	C-CER,CHIP
2203-006361	C420	C-CER,CHIP
2203-006361	C427	C-CER,CHIP
2203-006361	C444	C-CER,CHIP
2203-006474	C346	C-CER,CHIP
2203-006474	C442	C-CER,CHIP
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2203-006562	C123	C-CER,CHIP
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2203-006562	C455	C-CER,CHIP
2203-006562	C456	C-CER,CHIP
2203-006562	C458	C-CER,CHIP

SEC CODE	Design LOC	Description
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2203-006562	C515	C-CER,CHIP
2203-006562	C524	C-CER,CHIP
2203-006562	C525	C-CER,CHIP
2203-006562	C526	C-CER,CHIP
2203-006626	C147	C-CER,CHIP
2203-006636	C457	C-CER,CHIP
2203-006824	C143	C-CER,CHIP
2203-006824	C144	C-CER,CHIP
2203-006824	C222	C-CER,CHIP
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2203-006824	C405	C-CER,CHIP
2203-006824	C417	C-CER,CHIP
2203-006825	C406	C-CER,CHIP
2203-006838	C142	C-CER,CHIP
2203-006841	C426	C-CER,CHIP
2203-006872	C212	C-CER,CHIP
2203-006872	C506	C-CER,CHIP
2203-006890	C522	C-CER,CHIP
2203-007271	C208	C-CER,CHIP
2404-001381	C445	C-TA,CHIP
2404-001381	TA500	C-TA,CHIP
2404-001411	TA100	C-TA,CHIP
2703-001613	L107	INDUCTOR-SMD
2703-001733	L207	INDUCTOR-SMD
2703-001733	L210	INDUCTOR-SMD
2703-001734	L202	INDUCTOR-SMD
2703-001786	L205	INDUCTOR-SMD
2703-002155	L102	INDUCTOR-SMD
2703-002170	L113	INDUCTOR-SMD
2703-002200	L112	INDUCTOR-SMD
2703-002203	L103	INDUCTOR-SMD
2703-002207	L111	INDUCTOR-SMD

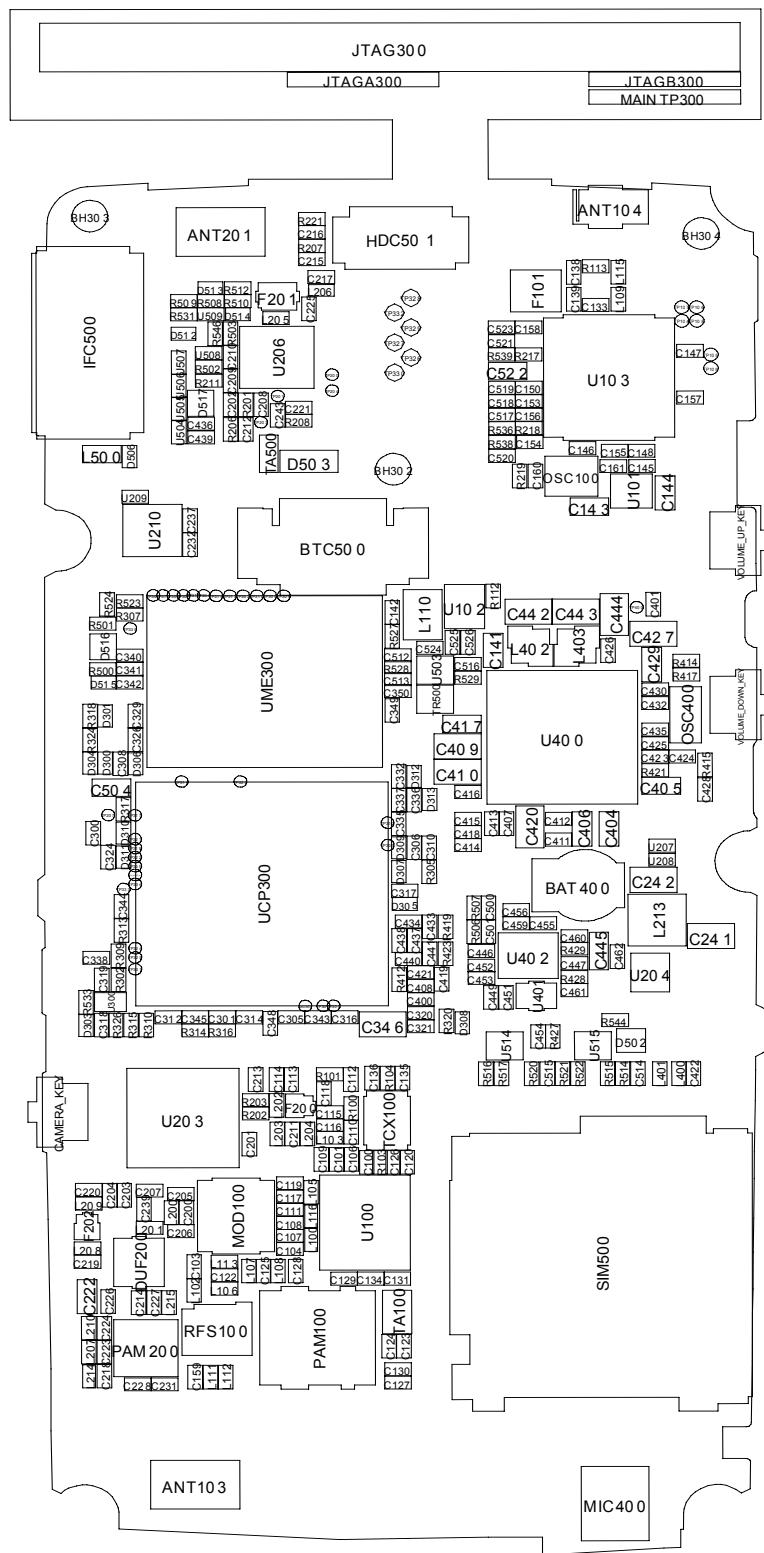
SEC CODE	Design LOC	Description
2703-002226	L500	INDUCTOR-SMD
2703-002267	L201	INDUCTOR-SMD
2703-002281	L105	INDUCTOR-SMD
2703-002313	L109	INDUCTOR-SMD
2703-002365	L200	INDUCTOR-SMD
2703-002367	L115	INDUCTOR-SMD
2703-002544	L214	INDUCTOR-SMD
2703-002558	L100	INDUCTOR-SMD
2703-002593	L206	INDUCTOR-SMD
2703-002608	L116	INDUCTOR-SMD
2703-002619	L213	INDUCTOR-SMD
2703-002840	L402	INDUCTOR-SMD
2703-002872	L404	INDUCTOR-SMD
2703-003184	L110	INDUCTOR-SMD
2703-003194	L403	INDUCTOR-SMD
2801-004466	OSC400	CRYSTAL-SMD
2801-004786	OSC100	CRYSTAL-SMD
2809-001327	TCX100	OSCILLATOR-VCTCXO
2901-001409	F500	FILTER-EMI SMD
2901-001409	F501	FILTER-EMI SMD
2901-001409	F502	FILTER-EMI SMD
2901-001409	F503	FILTER-EMI SMD
2901-001409	F504	FILTER-EMI SMD
2903-001372	F101	FILTER-CERAMIC
2904-001756	F200	FILTER-SAW
2904-001789	F202	FILTER-SAW
2909-001283	F201	FILTER-LC
2910-000024	DUF200	DUPLEXER-SAW
2911-000096	MOD100	DUPLEXER-FEM
3301-001534	U302	BEAD-SMD
3301-001729	L400	BEAD-SMD
3301-001729	L401	BEAD-SMD
3301-001787	U504	CORE-FERRITE BEAD
3301-001787	U505	CORE-FERRITE BEAD
3301-001787	U506	CORE-FERRITE BEAD
3301-001787	U507	CORE-FERRITE BEAD

SEC CODE	Design LOC	Description
3301-001787	U508	CORE-FERRITE BEAD
3301-001787	U509	CORE-FERRITE BEAD
3301-001820	U207	BEAD-SMD
3301-001820	U208	BEAD-SMD
3301-001970	U209	BEAD-SMD
3404-001303	CAMERA_KEY	SWITCH-TACT
3404-001303	VOLUME_DOWN_KEY	SWITCH-TACT
3404-001303	VOLUME_UP_KEY	SWITCH-TACT
3705-001503	RFS100	CONNECTOR-COAXIAL
3708-002222	HDC501	CONNECTOR-FPC/FFC/PIC
3709-001465	SIM500	CONNECTOR-CARD EDGE
3710-002683	IFC500	SOCKET-INTERFACE
3711-005618	HDC500	HEADER-BOARD TO BOARD
3711-006285	BTC500	HEADER-BATTERY
4302-001180	BAT400	BATTERY-LI(2ND)
4709-001660	U103	W-LAN MODULE
GH30-00517A	MIC400	MICROPHONE-ASSY-SGHJ800 SMD TYPE
GH71-08426A	ANT104	NPR CONTACT-ANTENNA

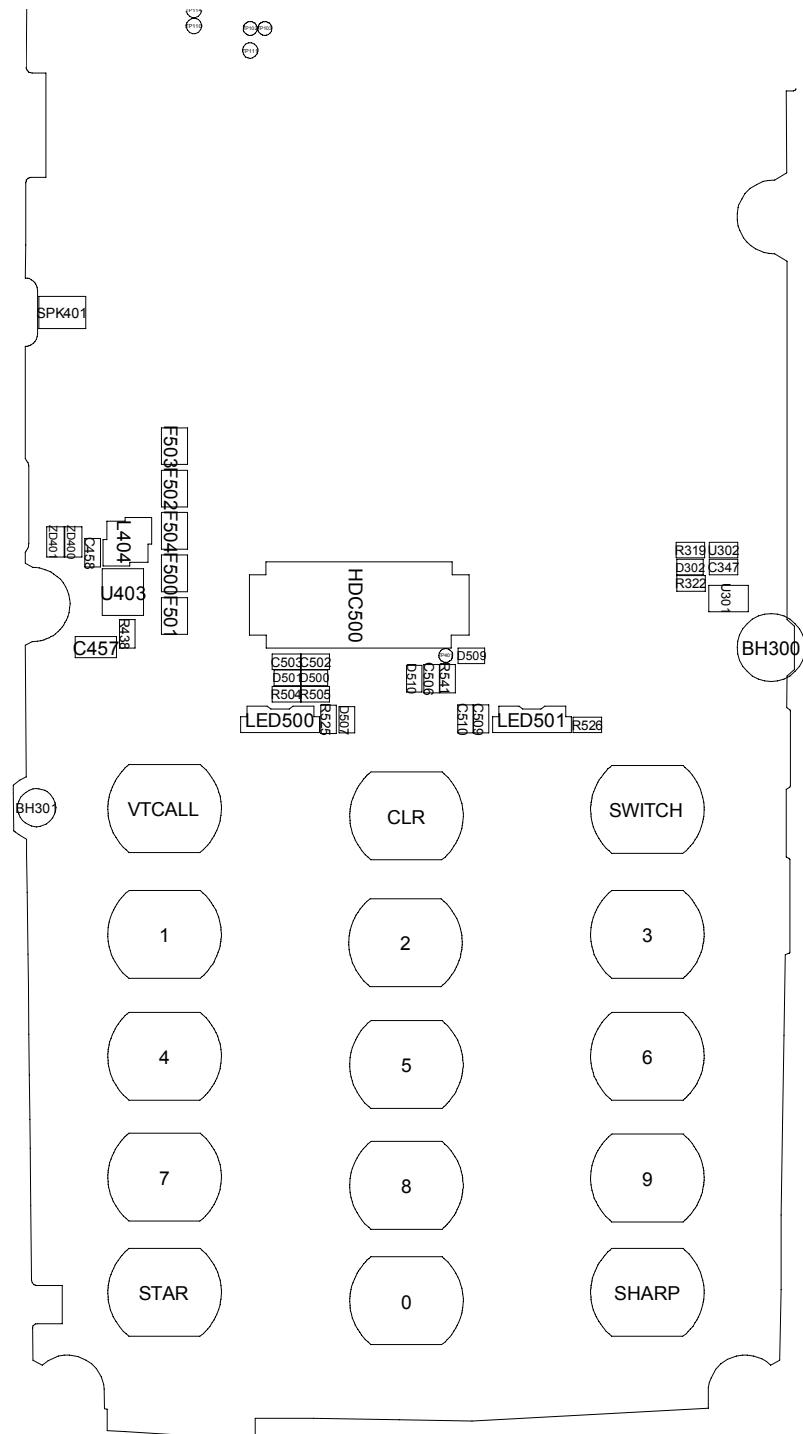
Please consult the GSPN website (Samsung Portal) for the most recent version of the product's part list.

8. PCB Diagrams

Top



Bottom



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