

SAMSUNG

GSM TELEPHONE

GT-S5350

SERVICE *Manual*

GSM TELEPHONE



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**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. GSM850&900/DCS1800/PCS1900 General Specification

	GSM850	EGSM900	DCS1800	PCS1900	WCDMA 2100
Freq. Band[MHz] Uplink/Downlink	824-849 869-894	880~915 925~960	1710~1785 1805~1880	1850~1910 1930~1990	1920~1980 2110~2170
ARFCN range	128-251	0~124 & 975~1023	512~885	512~810	UL : 9612 ~ 9888 DL : 10562 ~ 10838
Tx/Rx spacing	45MHz	45MHz	95MHz	80MHz	190MHz
Mod. Bit rate /Bit Period	270.833kbps 3.692us	270.833kbps 3.692us	270.833kbps 3.692us	270.833kbps 3.692 us	3.84Mcps
Time Slot Period / Frame Period	576.9us 4.615ms	576.9us 4.615ms	576.9us 4.615ms	576.9 us 4.615 ms	10 ms
Modulation	0.3GMSK	0.3GMSK	0.3GMSK	0.3GMSK	UL : BPSK DL : QPSK
MS Power	33dBm ~ 5dBm	33dBm ~ 5dBm	30dBm ~ 0dBm	30dBm ~ 0dBm	Max : 24dBm Min : -50dBm
Power Class	5~19(class4)	5~19(class4)	0~15(class1)	0~15(class1)	Class 3
Sensitivity	-102dBm	-102dBm	-100dBm	-100dBm	-106.7 dBm
TDMA Mux	8	8	8	8	
Cell Radius	35Km	35Km	2Km	2 Km	

2-2. GSM TX power class

TX Power control level	GSM850	GSM900
5	33±2 dBm	33±2 dBm
6	31±2 dBm	31±2 dBm
7	29±2 dBm	29±2 dBm
8	27±2 dBm	27±2 dBm
9	25±2 dBm	25±2 dBm
10	23±2 dBm	23±2 dBm
11	21±2 dBm	21±2 dBm
12	19±2 dBm	19±2 dBm
13	17±2 dBm	17±2 dBm
14	15±2 dBm	15±2 dBm
15	13±2 dBm	13±2 dBm
16	11±3 dBm	11±3 dBm
17	9±3 dBm	9±3 dBm
18	7±3 dBm	7±3 dBm
19	5±3 dBm	5±3 dBm

TX Power control level	DCS1800	PCS1900
0	30±3 dBm	30±3 dBm
1	28±3 dBm	28±3 dBm
2	26±3 dBm	26±3 dBm
3	24±3 dBm	24±3 dBm
4	22±3 dBm	22±3 dBm
5	20±3 dBm	20±3 dBm
6	18±3 dBm	18±3 dBm
7	16±3 dBm	16±3 dBm
8	14±3 dBm	14±3 dBm
9	12±4 dBm	12±4 dBm
10	10±4 dBm	10±4 dBm
11	8±4dBm	8±4dBm
12	6±4 dBm	6±4 dBm
13	4±4 dBm	4±4 dBm
14	2±5 dBm	2±5 dBm
15	0±5 dBm	0±5 dBm

3. Product Function

Main Function

- Gorgeous Metal Bar for Trandsetters
- GSM Phase 2+/ Class 12, EDGE, 3GPP Rel. 99
- Quad Band (EGSM850/900/DCS/PCS), UMTS 900/2100MHz
- 2.2 inch 240 by 320 QVGA 24.2K TFT
- MicroSD Card Support (Up to 16 GB)
- 3.2 Mega Pixel FF Camera + CIF
- Mini USB 7pin / Power, Data, Earphone
- USB v2.0 High Speed, Bluetooth v2.1 with EDR
- FM Radio with RDS
- SMS/MMS(OMA v 1.2), Video Messaging(H.263+AMR), Unified inbox (SMS/MMS)
- E-mail (POP3/IMAP4/SMTP, SSL)
- Audio : MP3/AAC/AAC+/eAAC+/WMA/AMR/MIDI/SP-MIDI/i-melody/WAV/MMF
- Video : MPEG4 / H.263 / H.264 / QVGA Decoding @ 15fps
- Image : JPEG/GIF/A-GIF/PNG/WBMP/BMP/Flash/SVG-T/TIFF
- WAP 2.0 (Access NF3.5), WAP push service supported,
- HTTP, OTA provisioning supported
- OMA DRM v1.0 (FL/CD/SD), OMA DRM v2.0 (Operator only), WM DRM
- SyncML : New PC Studio Local Sync & DS v1.2 Remote Sync
- Offline mode / No SIM mode
- Auto time setting
- Mobile Tracker / SOS message
- Communities
- Find music
- DNSe

4. Array Course Control

4-1. Software Adjustments



Test Jig (GH99-36900A)



Test Cable (GH39-01290A)



RF Test Cable (GH39-00985A)



Adapter (GH99-38251A)

4-2. Software Downloading

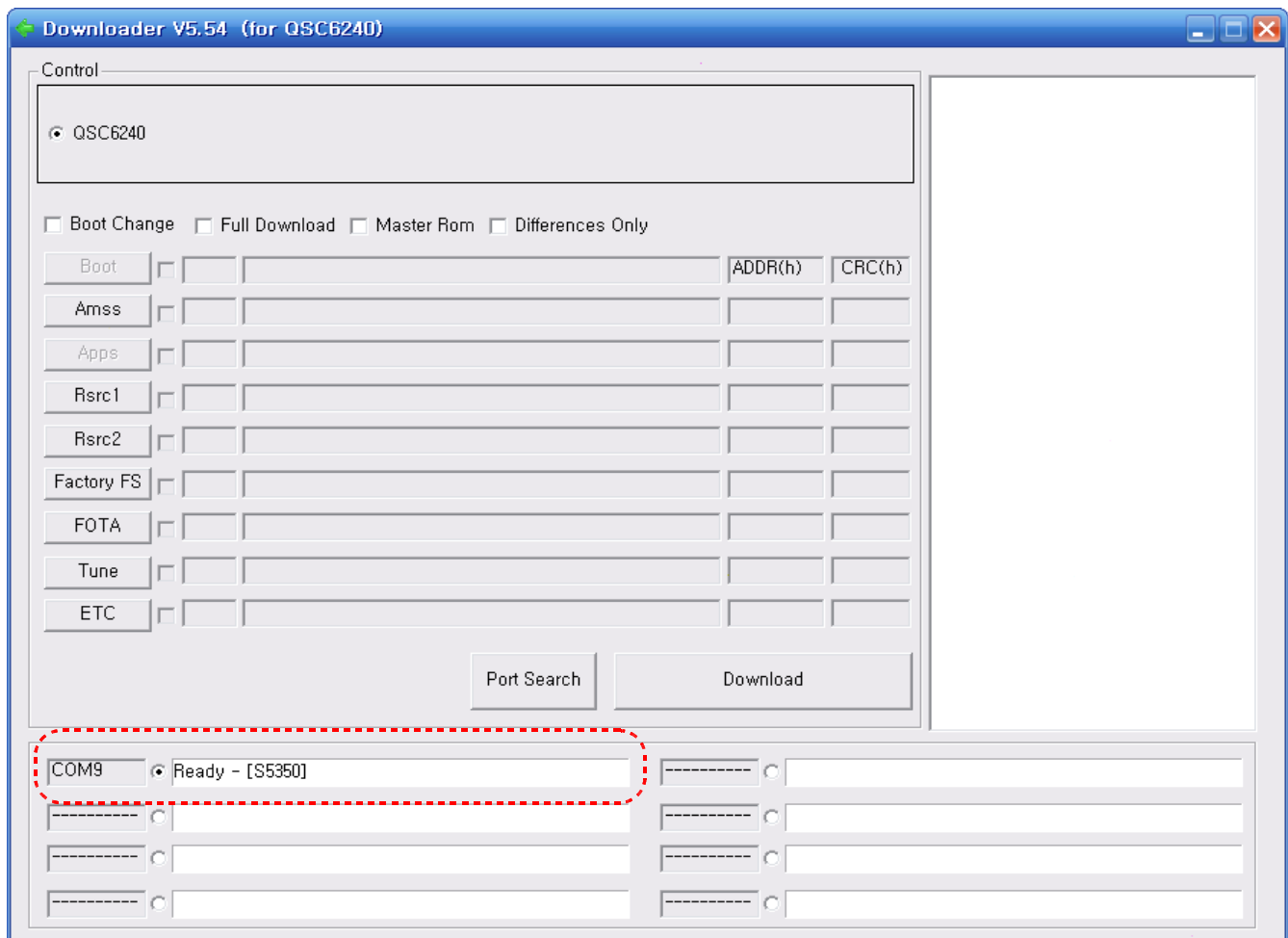
4-2-1. Pre-requisite for Download

- Downloader Program([Multiloader V5.54_QSC.exe](#))
- GT-S5350 Mobile Phone
- Micro USB Data Link Cable [[GH39-01028A](#)]
- Binary files

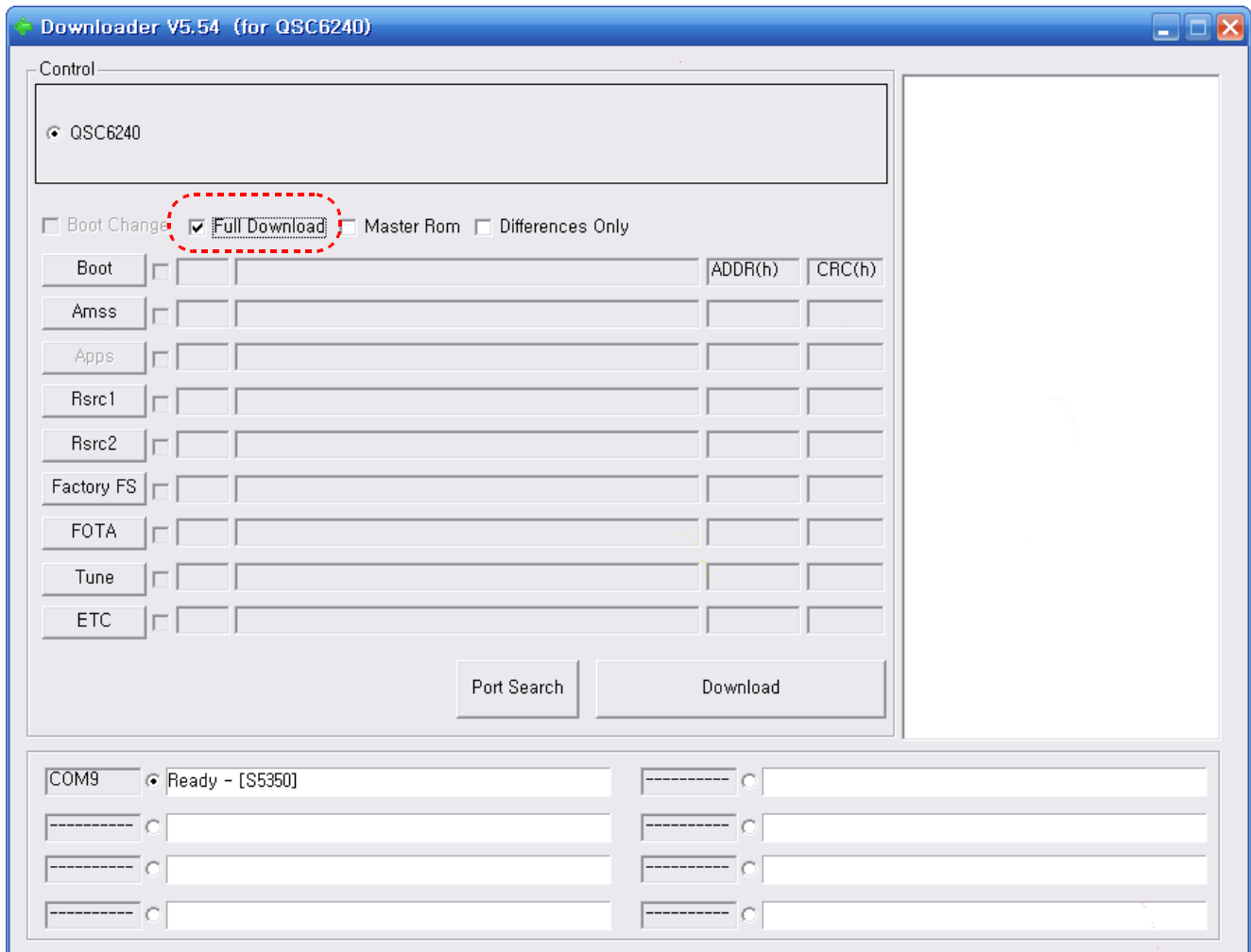
4-2-2. S/W Download Process

■ Load the binary download program by executing the "[Multiloader V5.54_QSC.exe](#)"

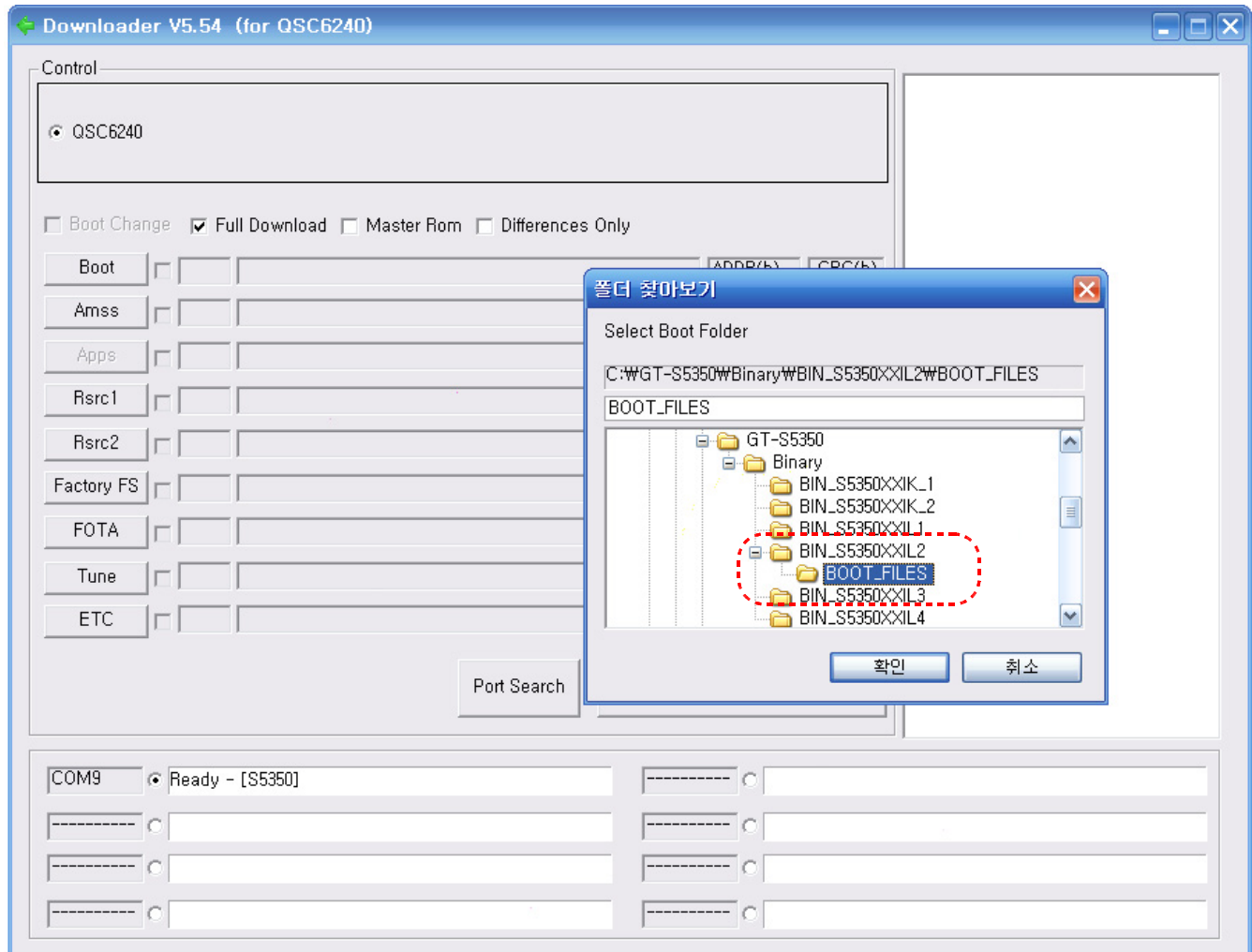
1. Execute the download program, Multiloader V5.54_QSC.exe.
2. Boot the S5350 by pressing '**Volume Down**+'9'+'**Power ON Key**' at the same time.
 - if you do properly, you can see the 'BOOT Loader' in red on the screen.
3. Connect the Micro USB data cable to the S5350.
4. Press 'Port Search', then 'Port' is activated.



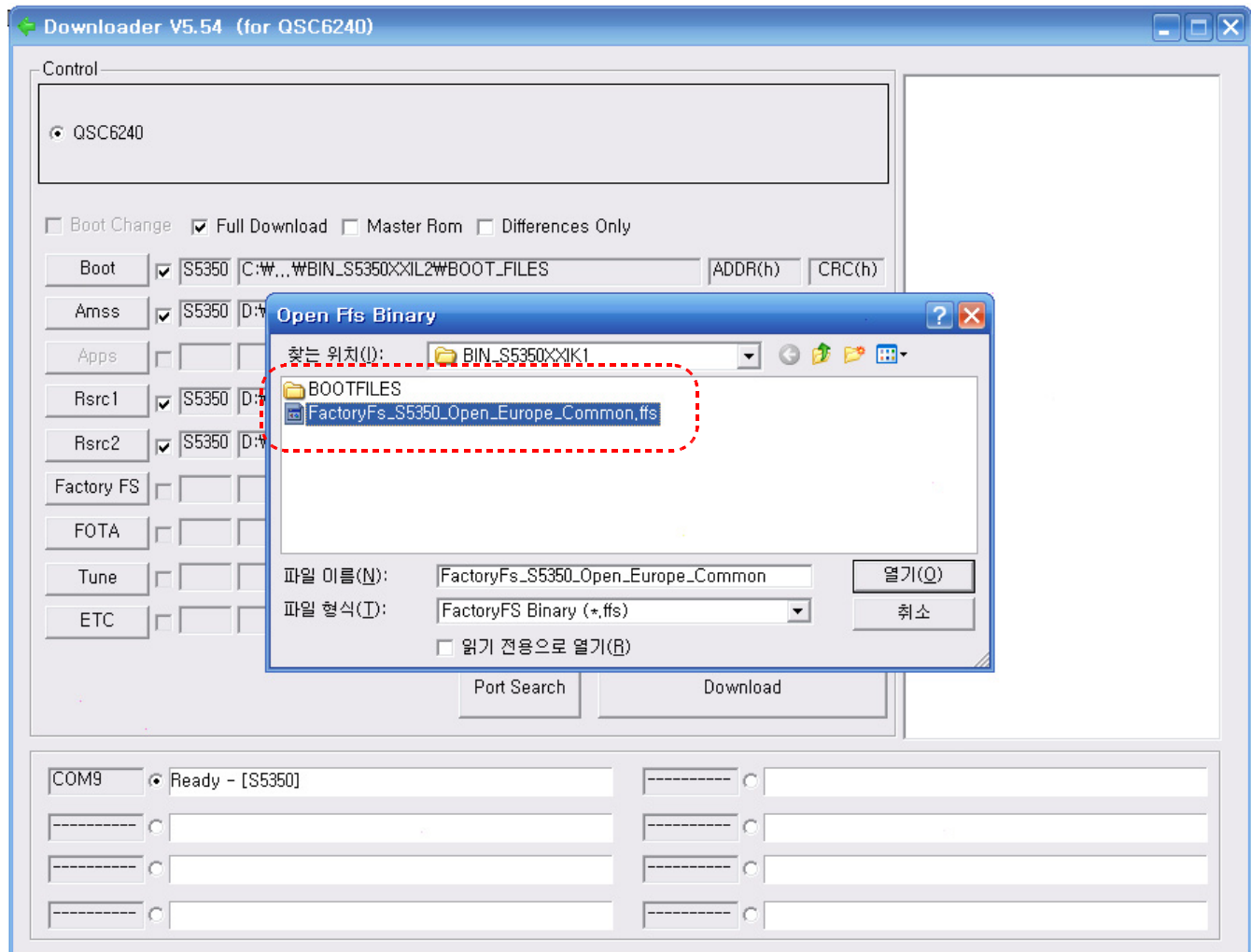
5. Check 'Full Download', then All buttons will be activate exept Apps button.



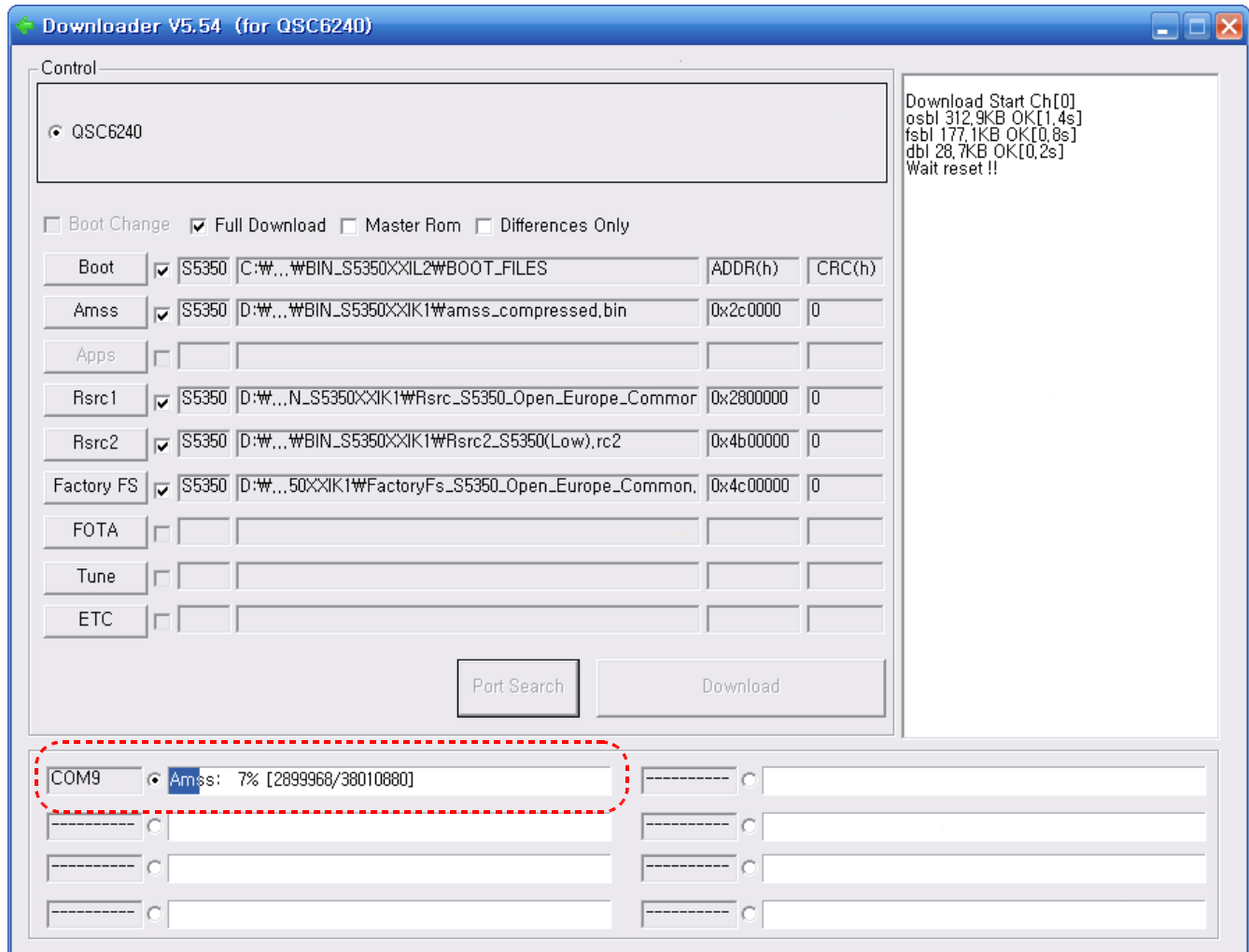
6. Click the 'Boot', then the dialogue box is opened. Select the wanted directory, and press 'OK'.



7. Click 'Amss', 'Rsrc1', 'Rsrc2', 'Factory FS' and select wanted files respectively.



8. Click 'Download', then downloading is executed successively. If the download is completed, S/W downloading is finished. (Download time : **about 4 minutes**)



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 specipicty 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

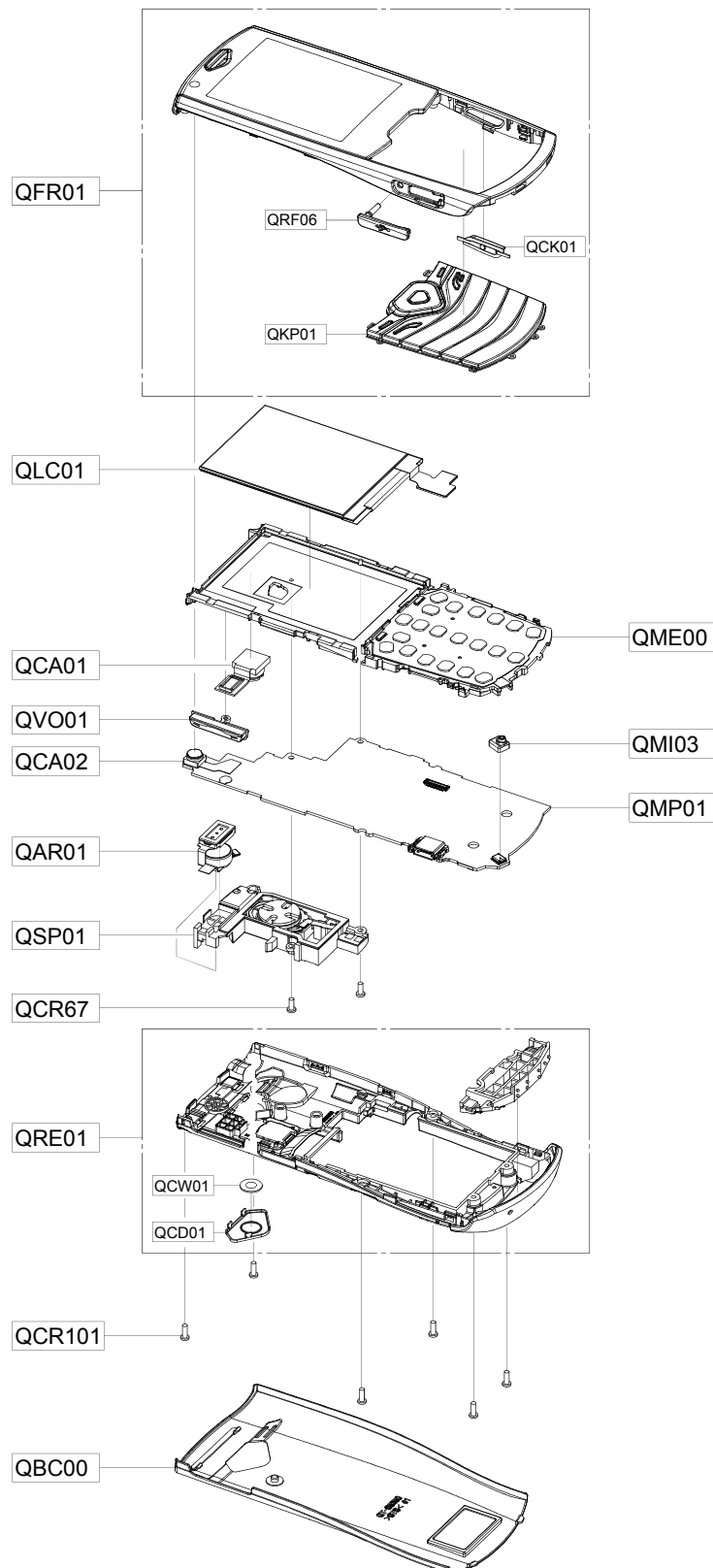
Several semiconductor may be damaged easily by static electricity. Such parts are called by ESD (Electrostatically Sensitive Devices), for example IC,BGA chip etc. Read Precaution below.

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
QCR101		SCREW-MACHINE	6001-002005
QCR67		SCREW-MACHINE	6001-002083
QAR01		MODULE-GT_S5350 RCV+MOT	GH59-08741A
QSP01		MODULE-GT_S5350 SPK	GH59-08742A
QVO01		PMO KEY-VOLUME	GH72-57839A
QMP01		A/S ASSY-PBA MAIN GT_S5350	GH82-04479A
QCA01		ASSY CAMERA-GT_S5350 3M	GH96-04238A
QCA02		ASSY CAMERA-GT_S5350 CIF	GH96-04239A
QLC01		ASSY LCD-GT_S5350 2.22" TN QVGA	GH96-04303A
QME00		ASSY MODULE-GT_S5350 KEY+BRACKET	GH96-04364A
QBC00		ASSY COVER-BATTERY	GH98-15908A
QMI03		ASSY RUBBER-MIC	GH98-16010A
QFR01		ASSY CASE-FRONT	GH98-15905A
	QRF06	PMO COVER-USB	GH72-57762A
	QCK01	PMO KEY-CAMERA	GH72-57763A
	QKP01	ASSY KEYPAD-MAIN(HK/XEN)	GH98-15909A
QRE01		ASSY CASE-REAR	GH98-15906A
	QCD01	NPR DECO-CAMERA	GH71-09303A
	QCW01	PCT WINDOW-CAMERA	GH72-57760A

6. MAIN Electrical Parts List

SEC CODE	Design LOC	Description
0403-001688	D600	DIODE-ZENER
0404-001172	D400,D401,D502	DIODE-SCHOTTKY
0406-001286	ZD600	DIODE-TVS
0406-001293	ZD100,ZD500,ZD602	DIODE-TVS
0406-001293	ZD702,ZD703	DIODE-TVS
0406-001369	ZD502	DIODE-TVS
0406-001375	ZD501,ZD601,ZD606	DIODE-TVS
0406-001375	ZD608,ZD609	DIODE-TVS
0407-001002	ZD607	DIODE-ARRAY
0505-001165	Q400	FET-SILICON
0505-002341	Q600	FET-SILICON
1001-001488	U401	IC
1001-001546	U301	IC
1001-001585	U501	IC
1108-000296	UME301	MEMORY
1201-002764	U500	IC
1201-003009	U200	IC
1201-003014	U101	IC
1203-004818	U705	IC
1203-005367	U400	IC
1203-005512	U704	IC
1203-005521	U700	IC
1203-006111	U701	IC
1205-003792	UCP300	IC
1205-003883	U100	IC
1404-001224	TH300	THERMISTOR
2007-000137	R203	R-CHIP
2007-000138	R306,R420	R-CHIP
2007-000141	R106,R304,R305,R500	R-CHIP
2007-000141	R501,R505	R-CHIP
2007-000144	R302	R-CHIP
2007-000148	R307,R601,R606,R607	R-CHIP
2007-000148	R609,R610,R611	R-CHIP
2007-000152	R605,R612	R-CHIP
2007-000156	R602	R-CHIP
2007-000157	R101,R102,R400,R711	R-CHIP
2007-000157	R713	R-CHIP

SEC CODE	Design LOC	Description
2007-000162	R421,R617	R-CHIP
2007-000172	R613,R614	R-CHIP
2007-000932	R300	R-CHIP
2007-001298	R200	R-CHIP
2007-001305	R201,R202	R-CHIP
2007-002965	R707	R-CHIP
2007-007156	R419	R-CHIP
2007-007306	R204,R600	R-CHIP
2007-007698	R401	R-CHIP
2007-008057	R104,R105	R-CHIP
2007-008420	R103	R-CHIP
2007-008516	R301	R-CHIP
2007-008588	R503,R504	R-CHIP
2007-008766	R403	R-CHIP
2007-009201	R525,R526	R-CHIP
2203-000233	C118,C123,C149,C200	C-CERAMIC,CHIP
2203-000233	C238,C239,C418,C465	C-CERAMIC,CHIP
2203-000233	C624,C625	C-CERAMIC,CHIP
2203-000254	C100,C227,C301,C518	C-CERAMIC,CHIP
2203-000278	C215	C-CERAMIC,CHIP
2203-000386	C128,C424,C525,C535	C-CERAMIC,CHIP
2203-000386	C614	C-CERAMIC,CHIP
2203-000438	C209,C300	C-CERAMIC,CHIP
2203-000585	C147	C-CERAMIC,CHIP
2203-000654	C422,C440	C-CERAMIC,CHIP
2203-000679	C116	C-CERAMIC,CHIP
2203-000812	C124,C126,C131,C133	C-CERAMIC,CHIP
2203-000812	C134,C135,C138,C218	C-CERAMIC,CHIP
2203-000812	C226,C228,C305,C464	C-CERAMIC,CHIP
2203-000812	C605,C607,C608,C609	C-CERAMIC,CHIP
2203-000854	C114,C125	C-CERAMIC,CHIP
2203-000995	C318,C600	C-CERAMIC,CHIP
2203-001153	C512,C524	C-CERAMIC,CHIP
2203-001437	C240	C-CERAMIC,CHIP
2203-002668	C211,C235	C-CERAMIC,CHIP
2203-005050	C234	C-CERAMIC,CHIP
2203-005052	C129	C-CERAMIC,CHIP

SEC CODE	Design LOC	Description
2203-005053	C130,C401,C406	C-CERAMIC,CHIP
2203-005234	C144	C-CERAMIC,CHIP
2203-005288	C145,C224	C-CERAMIC,CHIP
2203-005382	C122	C-CERAMIC,CHIP
2203-005450	C127	C-CERAMIC,CHIP
2203-005682	C206,C222	C-CERAMIC,CHIP
2203-005729	C533,C534,C536,C537	C-CERAMIC,CHIP
2203-005736	C411	C-CERAMIC,CHIP
2203-005806	C237	C-CERAMIC,CHIP
2203-006048	C104,C109,C302,C303	C-CERAMIC,CHIP
2203-006048	C304,C307,C315,C317	C-CERAMIC,CHIP
2203-006048	C421,C423,C435,C442	C-CERAMIC,CHIP
2203-006048	C443,C444,C445,C454	C-CERAMIC,CHIP
2203-006048	C455,C456,C457,C458	C-CERAMIC,CHIP
2203-006048	C459,C460,C513,C606	C-CERAMIC,CHIP
2203-006048	C610,C613	C-CERAMIC,CHIP
2203-006137	C505,C506	C-CERAMIC,CHIP
2203-006187	C202,C205	C-CERAMIC,CHIP
2203-006190	C119,C120	C-CERAMIC,CHIP
2203-006260	C507,C509	C-CERAMIC,CHIP
2203-006324	C538,C705	C-CERAMIC,CHIP
2203-006348	C704	C-CERAMIC,CHIP
2203-006399	C426,C427,C602,C706	C-CERAMIC,CHIP
2203-006399	C708,C712,C713	C-CERAMIC,CHIP
2203-006423	C419,C425,C433,C461	C-CERAMIC,CHIP
2203-006423	C511,C514,C523,C527	C-CERAMIC,CHIP
2203-006423	C529	C-CERAMIC,CHIP
2203-006562	C404,C448,C500,C501	C-CERAMIC,CHIP
2203-006562	C502,C508,C510,C517	C-CERAMIC,CHIP
2203-006562	C519,C601,C703,C711	C-CERAMIC,CHIP
2203-006681	C229	C-CERAMIC,CHIP
2203-006839	C446,C449,C453	C-CERAMIC,CHIP
2203-006841	C400,C520,C521	C-CERAMIC,CHIP
2203-006846	C316	C-CERAMIC,CHIP
2203-006872	C101,C102,C105,C111	C-CERAMIC,CHIP
2203-006872	C306,C428,C429,C430	C-CERAMIC,CHIP
2203-006872	C432,C434,C436,C437	C-CERAMIC,CHIP

SEC CODE	Design LOC	Description
2203-006872	C438,C439,C441,C462	C-CERAMIC,CHIP
2203-006890	C612	C-CERAMIC,CHIP
2203-006979	C407	C-CERAMIC,CHIP
2203-007194	C148,C213,C219,C522	C-CERAMIC,CHIP
2203-007271	C121,C403	C-CERAMIC,CHIP
2203-007279	C212,C413,C414,C415	C-CERAMIC,CHIP
2203-007279	C447,C450,C463,C626	C-CERAMIC,CHIP
2203-007317	C409,C412,C416,C420	C-CERAMIC,CHIP
2203-007317	C451,C452	C-CERAMIC,CHIP
2203-007391	C110	C-CERAMIC,CHIP
2404-001506	TA400,TA501	C-TA,CHIP
2404-001572	TA100	C-TA,CHIP
2409-001166	BAT400	CAPACITOR
2503-001053	C621,C622	C-NETWORK
2703-001726	L403,L404	INDUCTOR-SMD
2703-002170	L117	INDUCTOR-SMD
2703-002176	L211	INDUCTOR-SMD
2703-002199	L104	INDUCTOR-SMD
2703-002203	L110,L124	INDUCTOR-SMD
2703-002204	L107,L406	INDUCTOR-SMD
2703-002205	L128	INDUCTOR-SMD
2703-002207	L205	INDUCTOR-SMD
2703-002208	L105	INDUCTOR-SMD
2703-002267	L123	INDUCTOR-SMD
2703-002313	L405,L601	INDUCTOR-SMD
2703-002314	L101	INDUCTOR-SMD
2703-002367	L209	INDUCTOR-SMD
2703-002368	L212	INDUCTOR-SMD
2703-002794	L111,L112,L114,L115	INDUCTOR-SMD
2703-002858	L106,L108	INDUCTOR-SMD
2703-002901	L113,L201	INDUCTOR-SMD
2703-002903	L208	INDUCTOR-SMD
2703-002906	L127,L207	INDUCTOR-SMD
2703-002907	L109,L202	INDUCTOR-SMD
2703-002919	L116	INDUCTOR-SMD
2703-003009	L126	INDUCTOR-SMD
2703-003258	L400,L401,L402	INDUCTOR-SMD

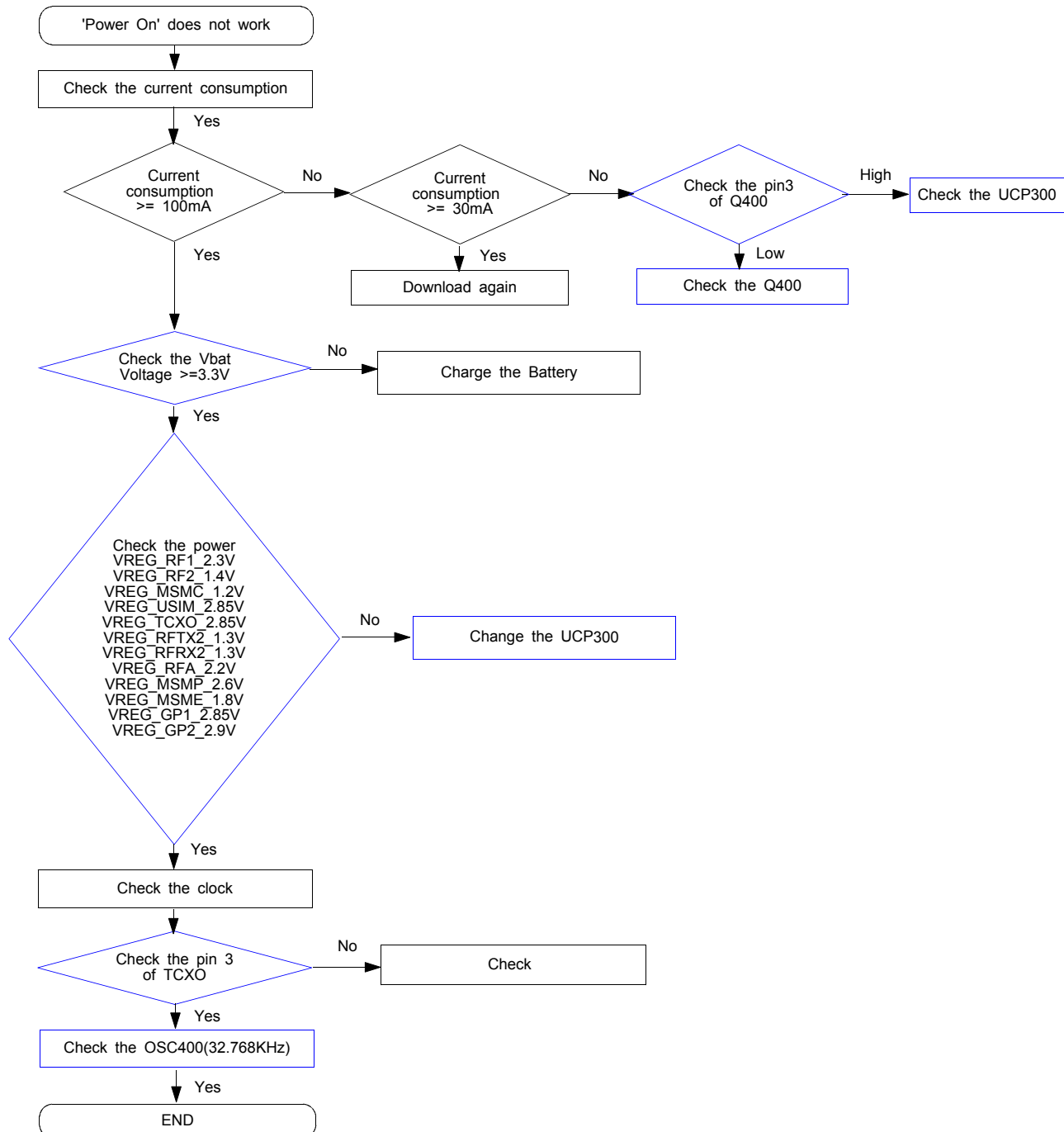
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2703-003479	L100,L102	INDUCTOR-SMD
2703-003485	L700	INDUCTOR-SMD
2703-003486	L501	INDUCTOR-SMD
2801-004339	OSC400	CRYSTAL-UNIT
2801-004589	OSC100	CRYSTAL-UNIT
2809-001280	TCX200	OSCILLATOR-VCTCXOLEA
2901-001408	F701,F702,F703,F704	FILTER-EMI SMD
2901-001409	F700	FILTER-EMI SMD
2904-001633	F101	FILTER-SAW
2904-001785	F201	FILTER-SAW
2904-001789	F203	FILTER-SAW
2904-001881	F102	FILTER-SAW
2909-001312	F100	FILTER-DUPLEXER
2910-000062	F202	FILTER
2910-000092	F200	FILTER
3003-001136	MIC500	MIC-CONDENSOR
3301-001534	L600	CORE-FERRITE BEAD
3301-001729	L508,L509	CORE-FERRITE BEAD
3301-001885	L502,L503,L505,L506	CORE-FERRITE BEAD
3301-001885	L507	CORE-FERRITE BEAD
3301-001986	L504,L701	CORE-FERRITE BEAD
3404-001303	TAC700,TAC701	SWITCH-TACT
3705-001503	RFS100	CONNECTOR-COAXIAL
3708-002015	HDC603	CONNECTOR-FPC/FFC/PIC
3708-002222	HDC602	CONNECTOR-FPC/FFC/PIC
3709-001447	SIM600	CONNECTOR-CARD EDGE
3709-001575	CD600	CONNECTOR-CARD EDGE
3711-005643	HEA601	CONNECTOR-HEADER
3711-006882	HEA600	CONNECTOR-HEADER
3711-006919	HEA602	CONNECTOR-HEADER
3711-007312	BTC600	CONNECTOR-HEADER
3722-002867	IFC500	JACK-PHONE
GH71-08731A	SPK601,SPK602	NPR-CONTACT ANT

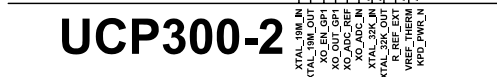
Please consult the GSPN website (Samsung Portal) for the most recent version of the product's part list.

9. Flow Chart of Troubleshooting

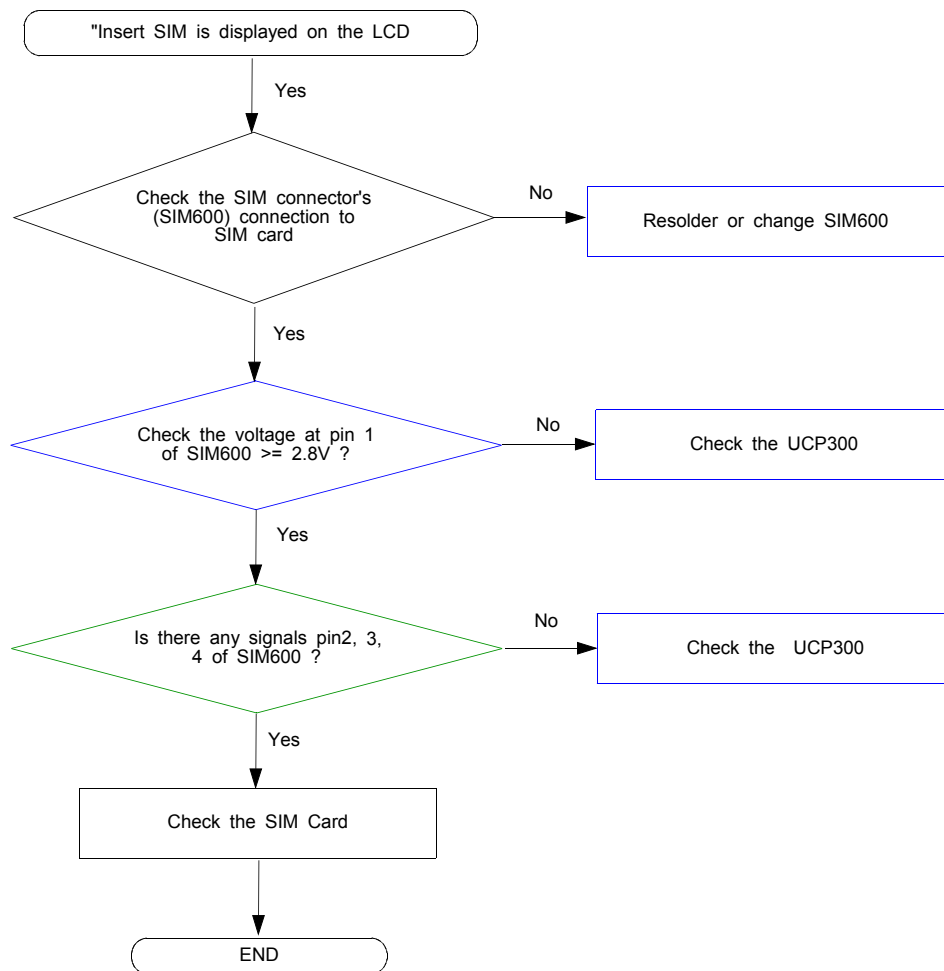
9-1. Baseband

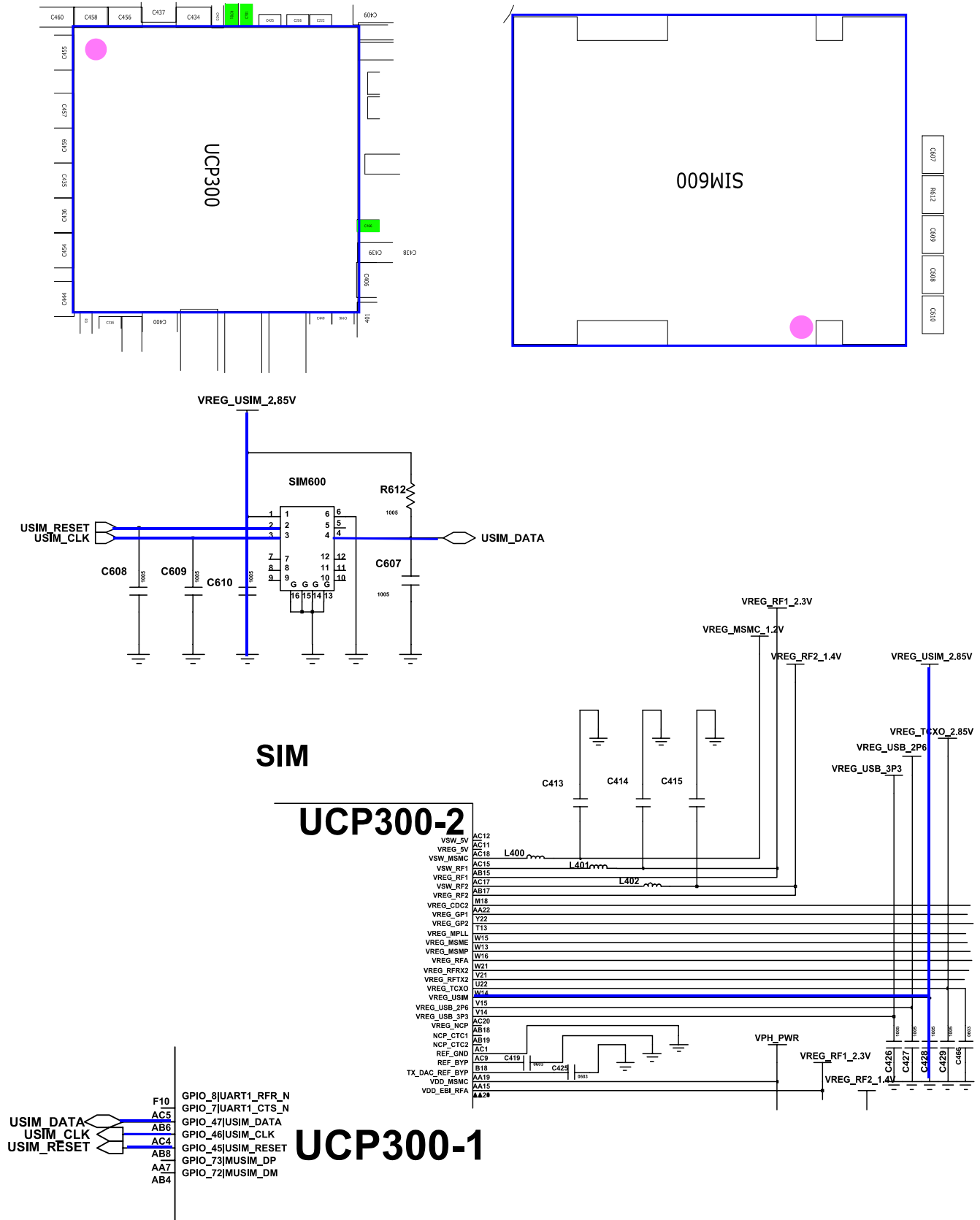
9-1-1. Power ON



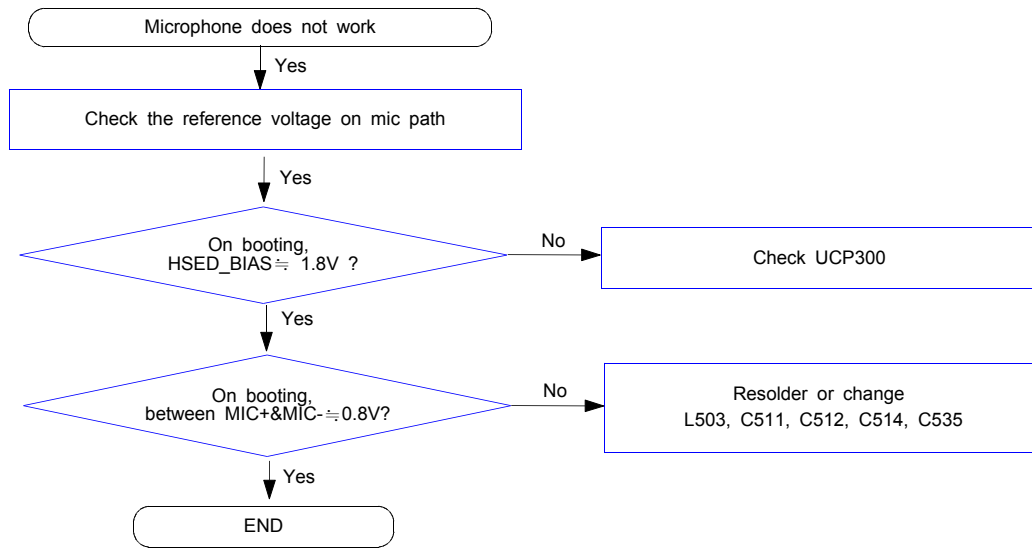


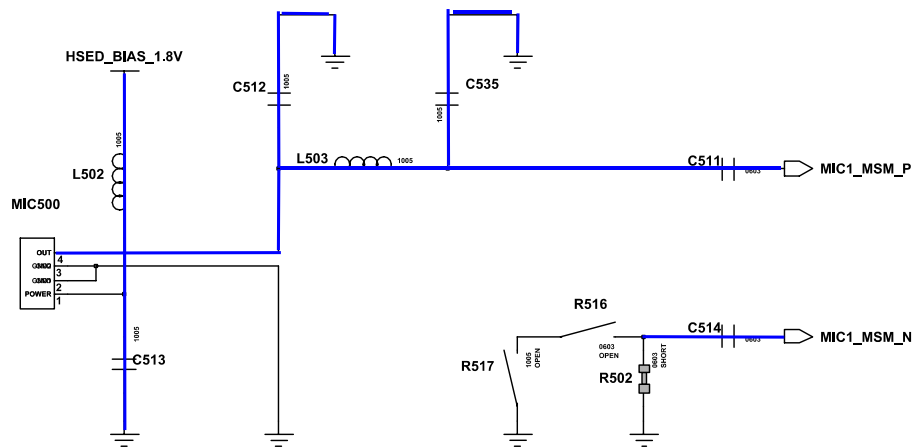
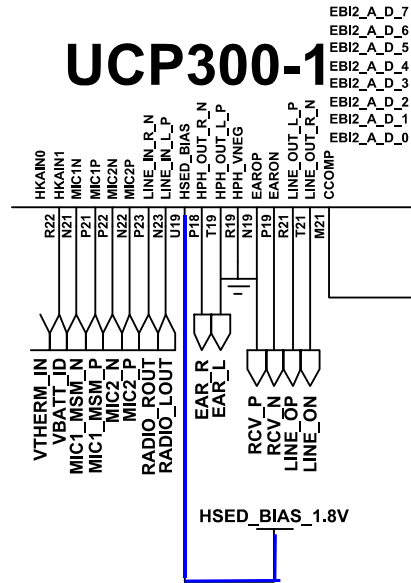
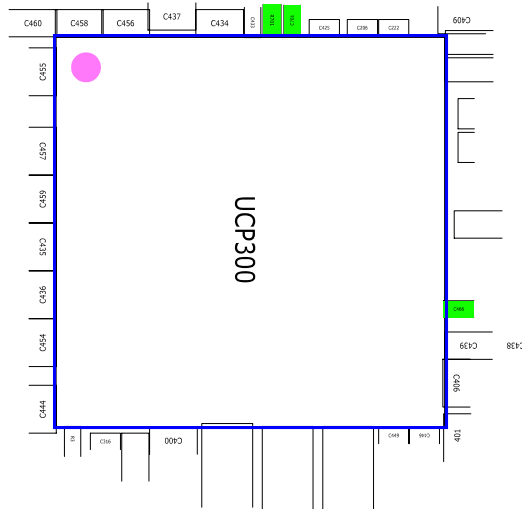
9-1-2. Sim Part



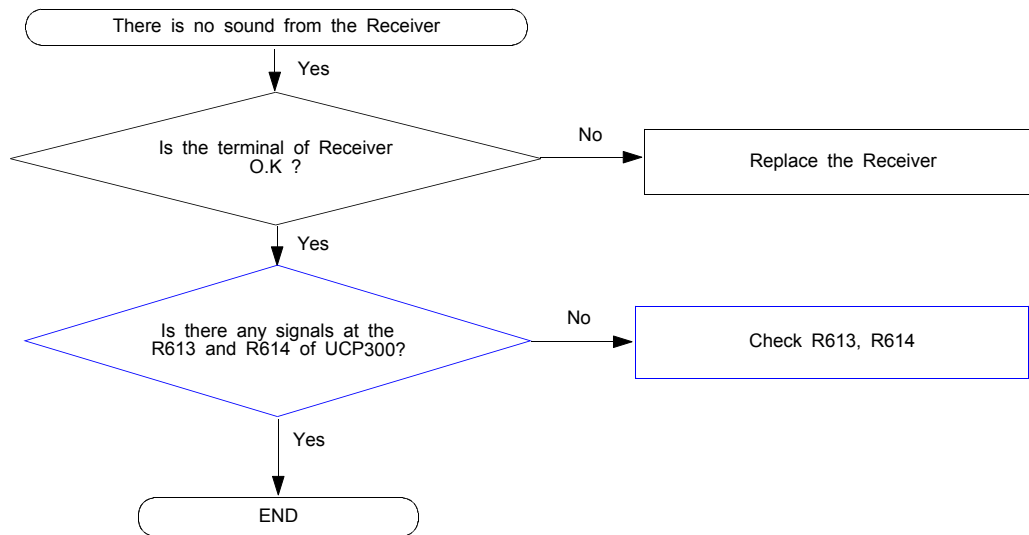


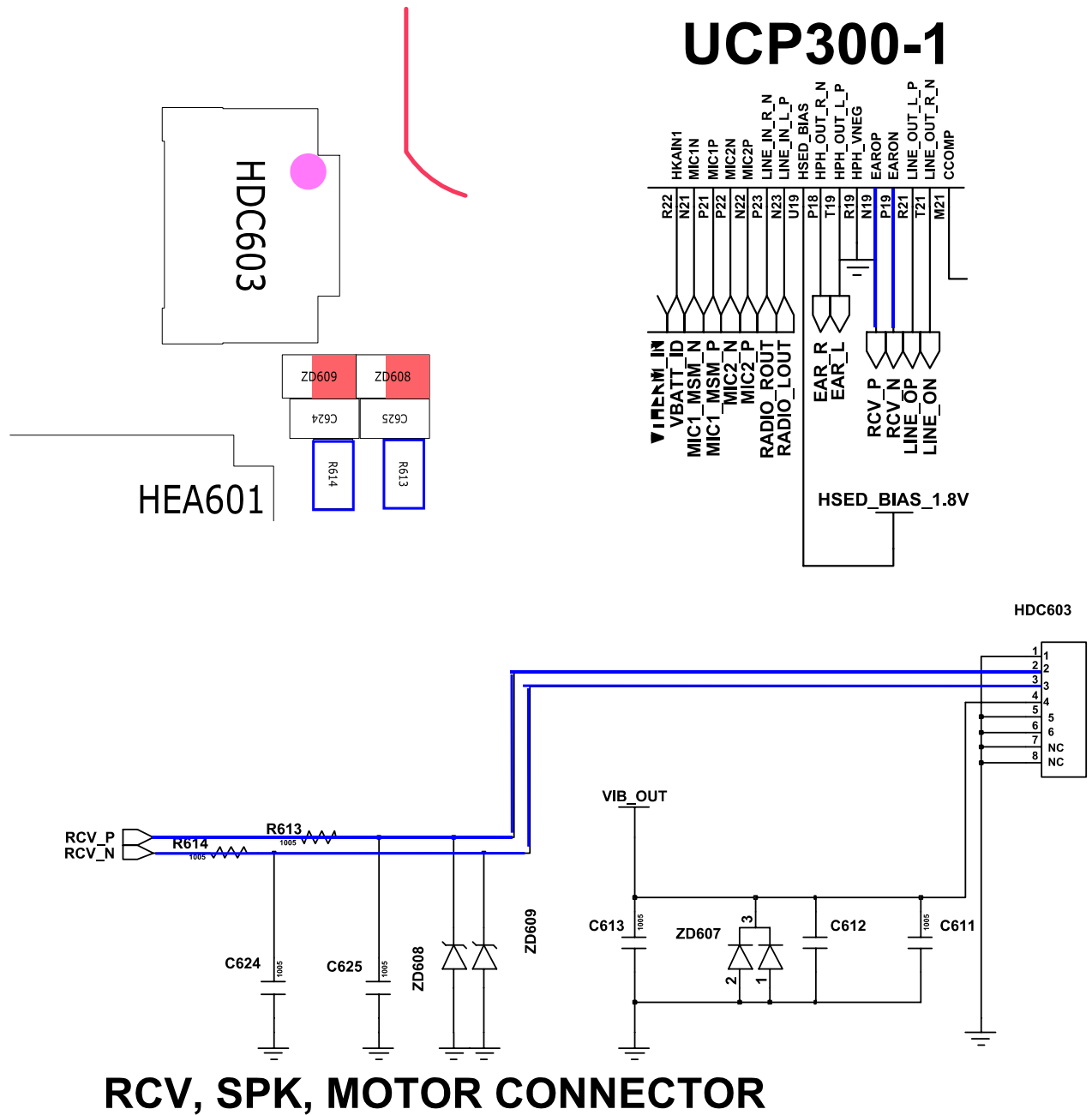
9-1-3. Microphone Part

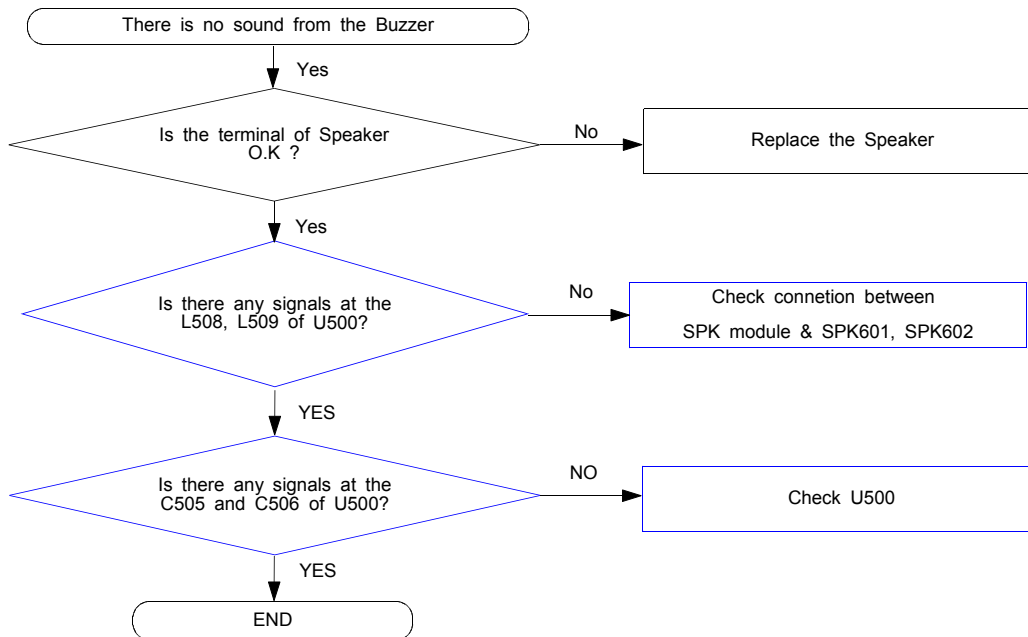


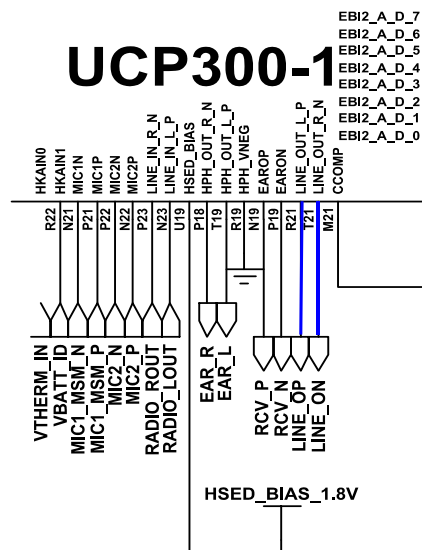
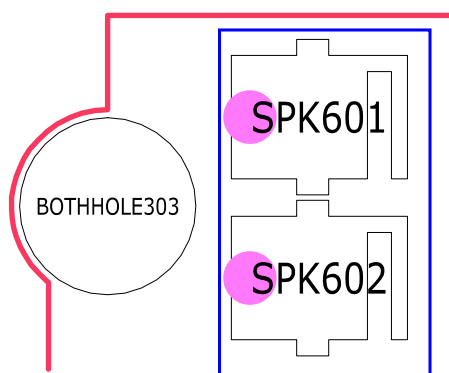
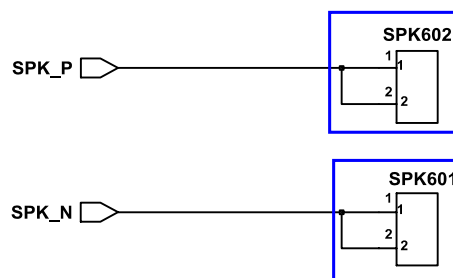
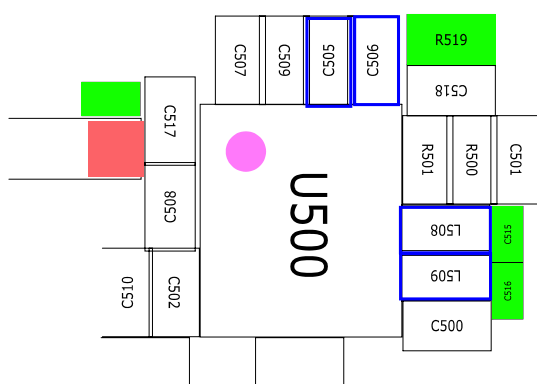
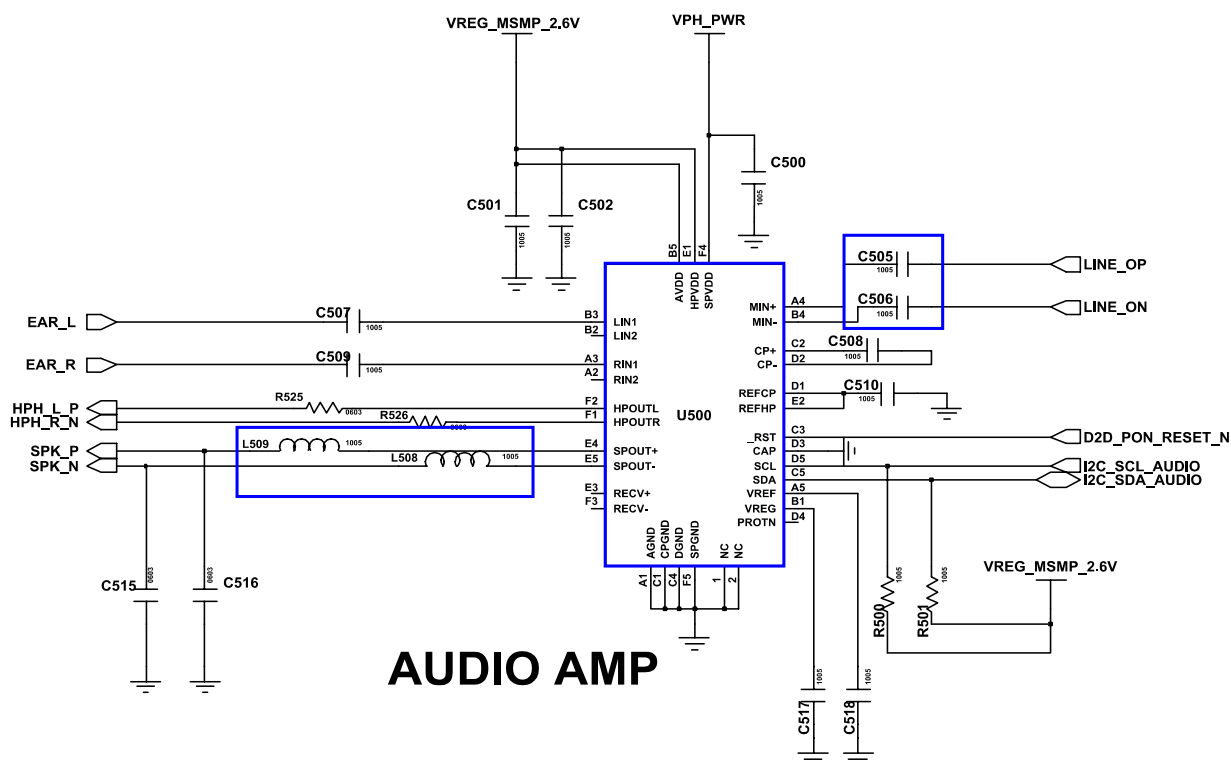


9-1-4. Receiver Part



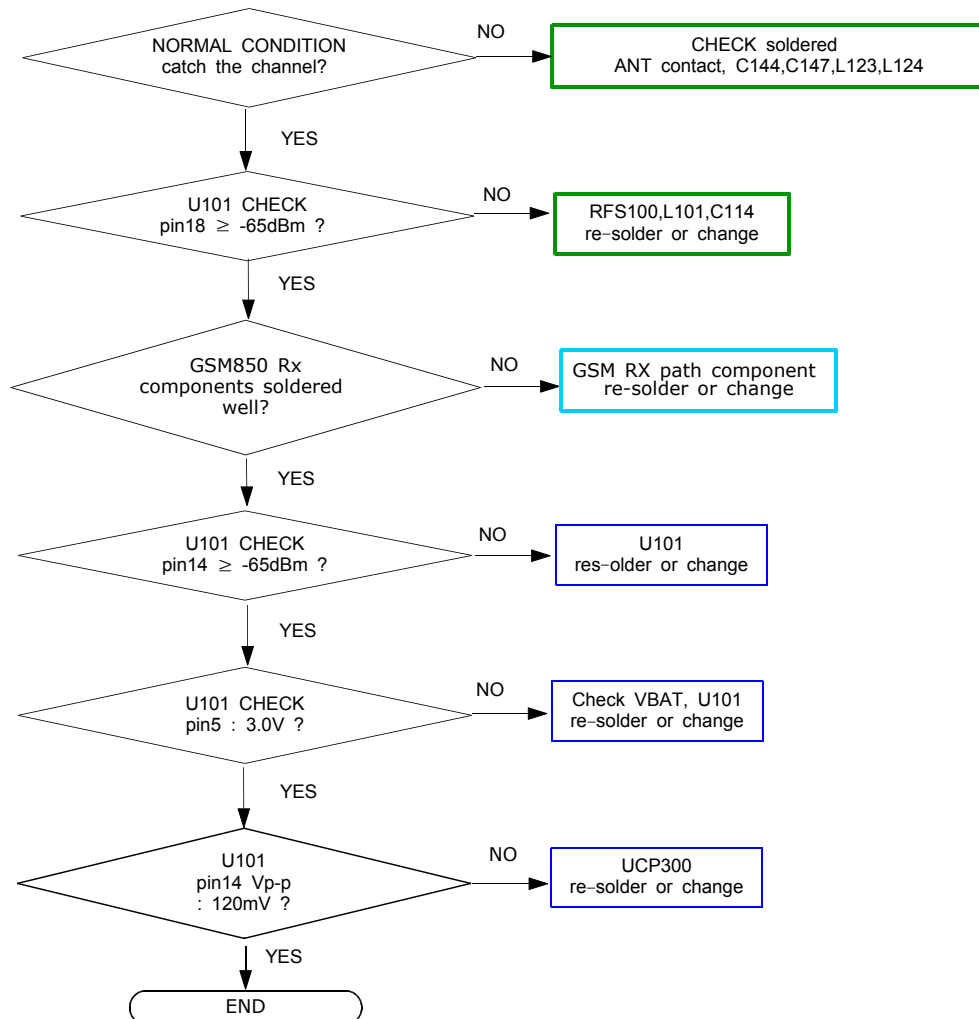


9-1-5. SPK Part



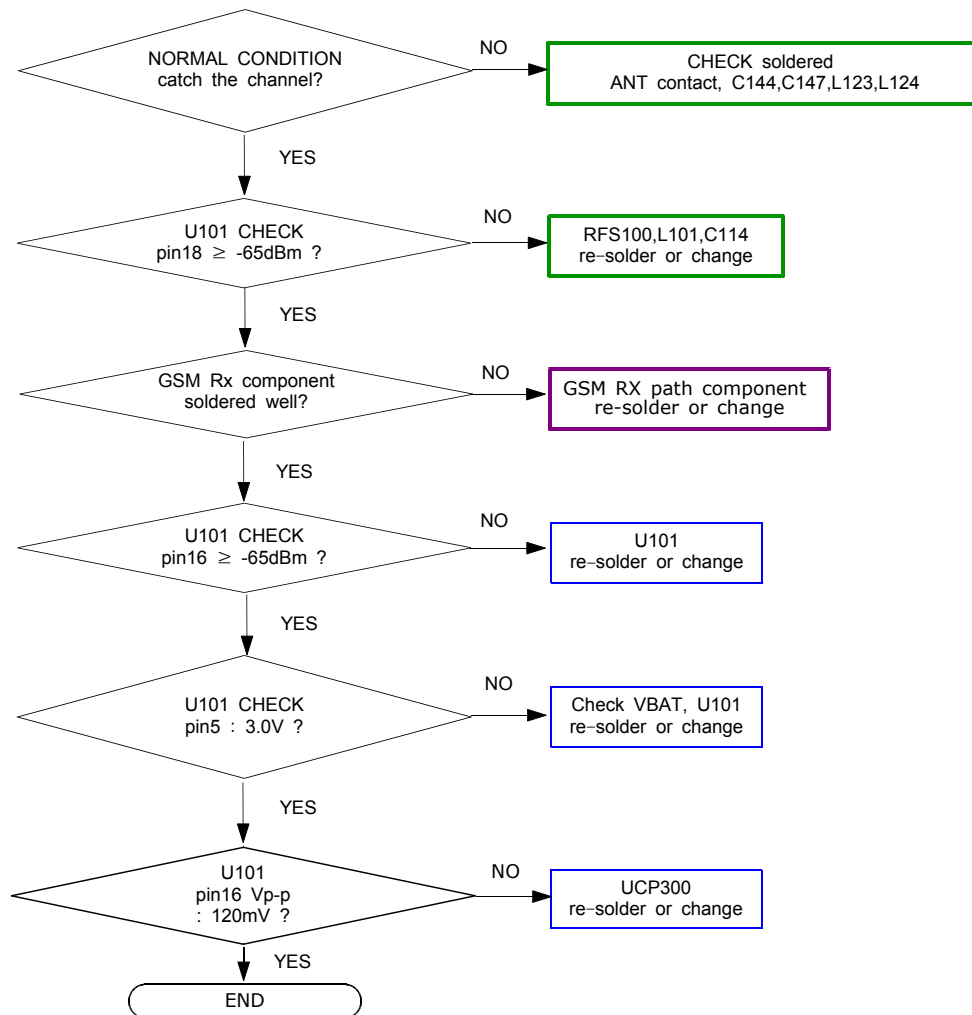
9-2.RF**9-2-1. GSM850 RX**

CONTINUOUS RX ON
RF INPUT : 190CH
AMP : -50dBm



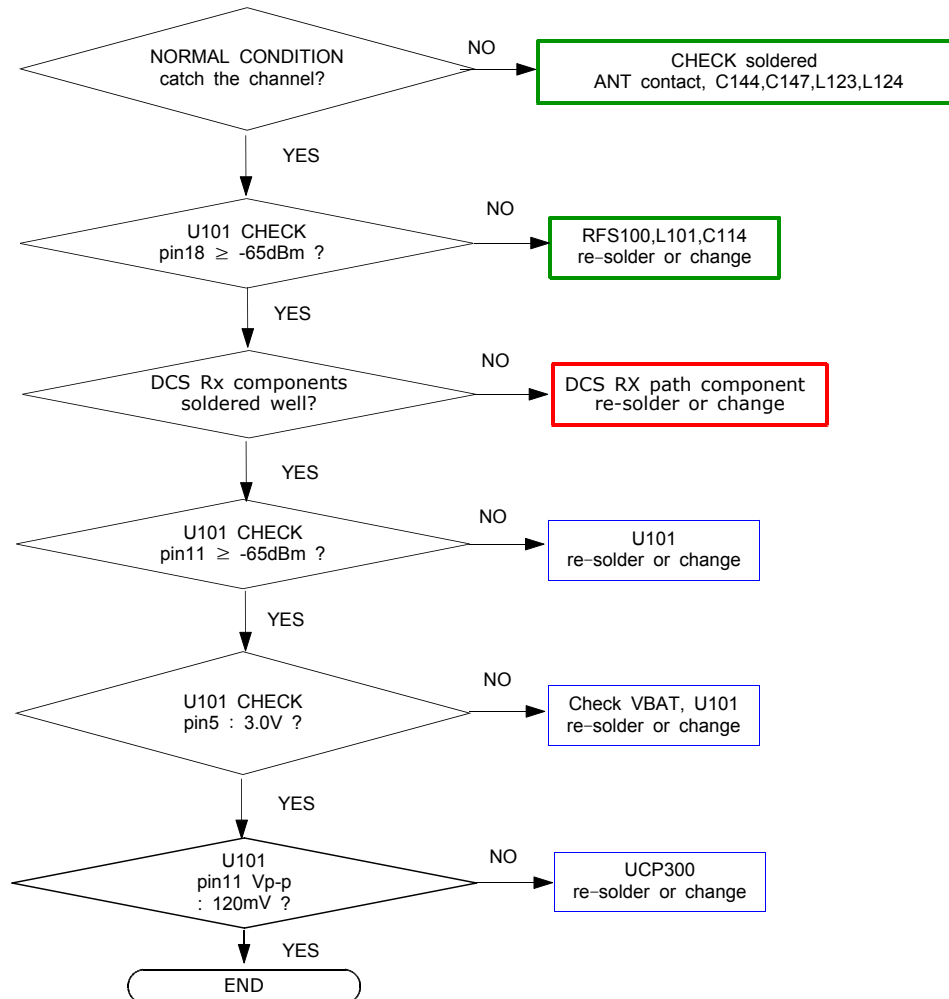
9-2-2. EGSM RX

CONTINUOUS RX ON
RF INPUT : 62CH
AMP : -50dBm



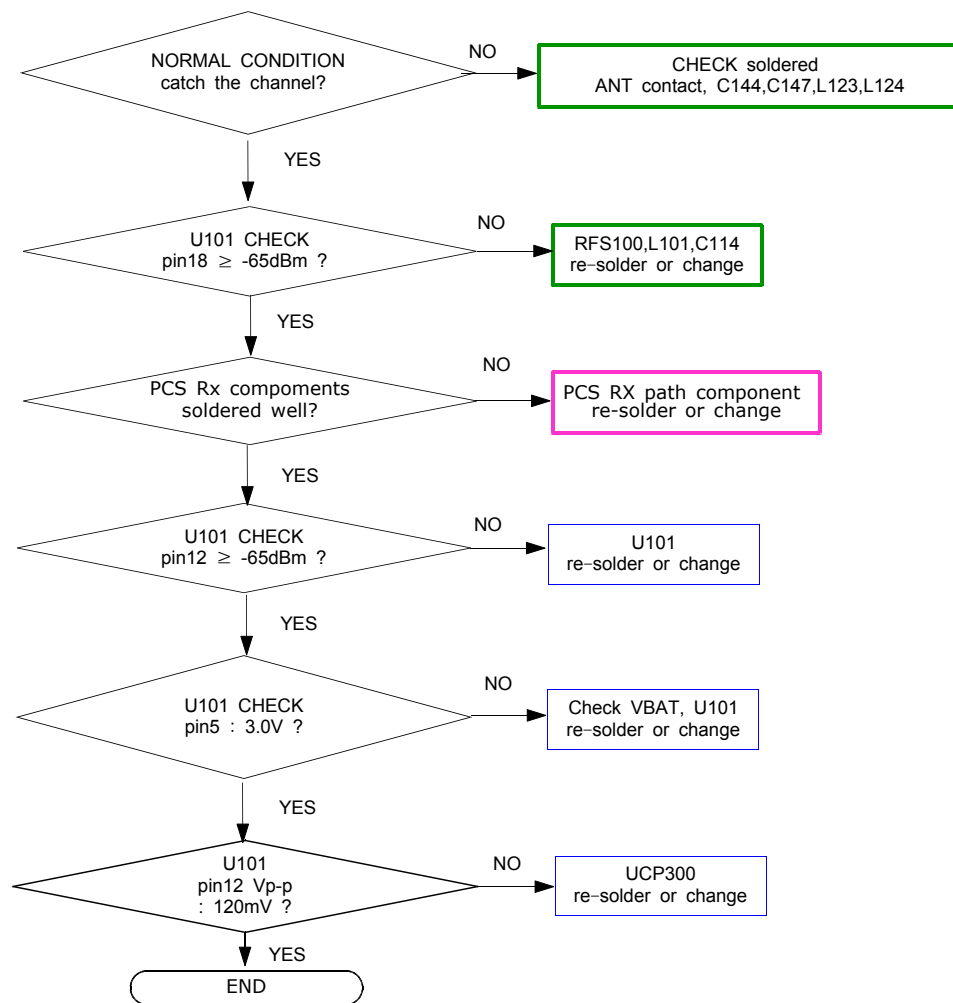
9-2-3. DCS RX

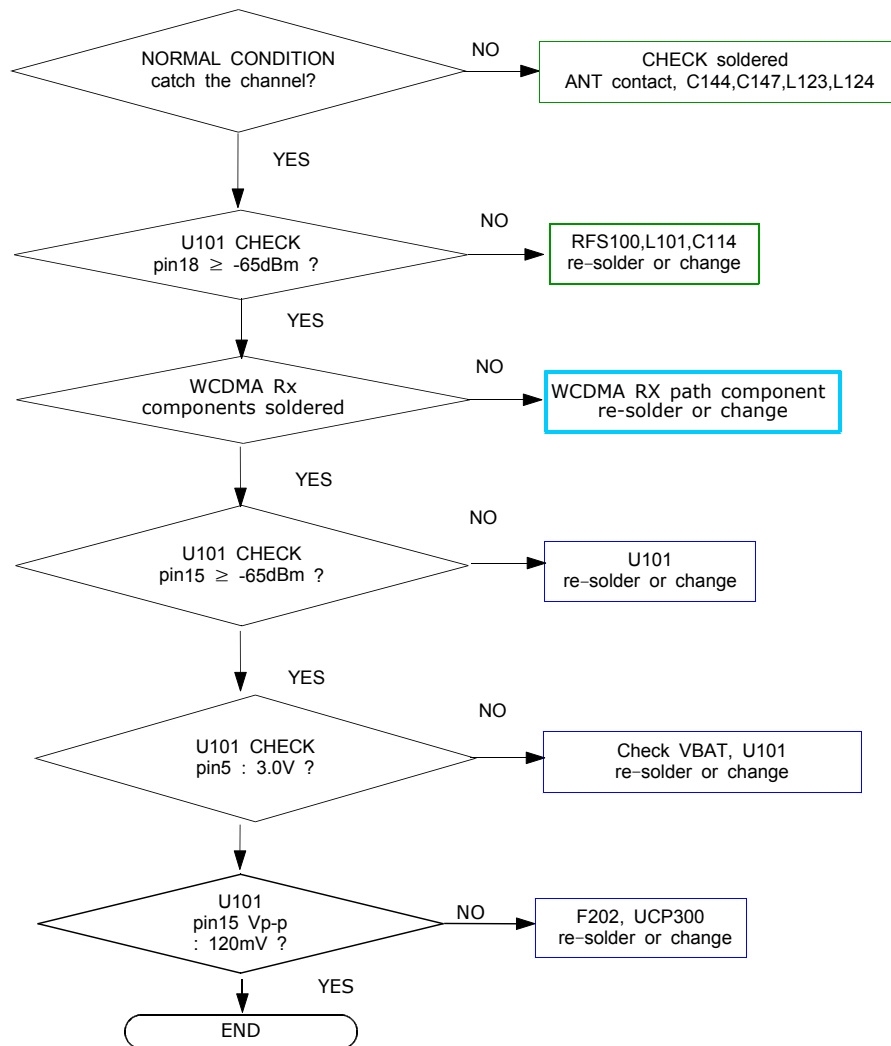
CONTINUOUS RX ON
RF INPUT : 698CH
AMP : -50dBm



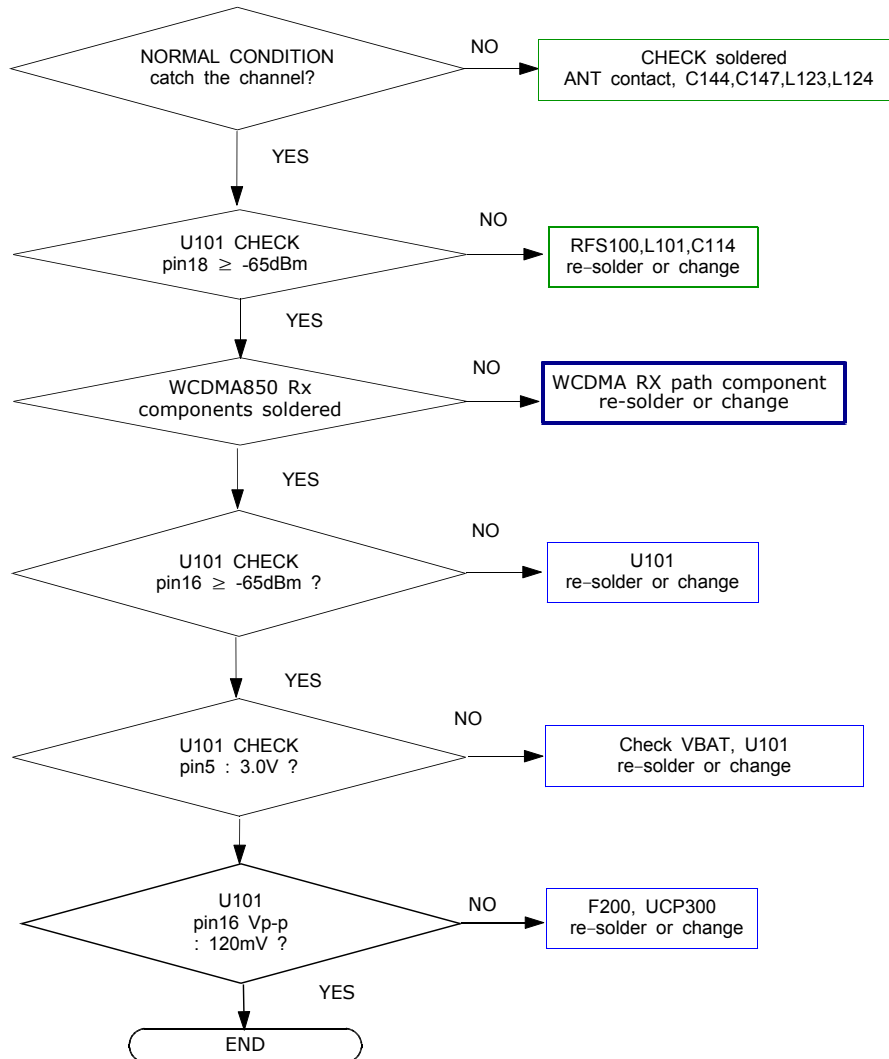
9-2-4. PCS RX

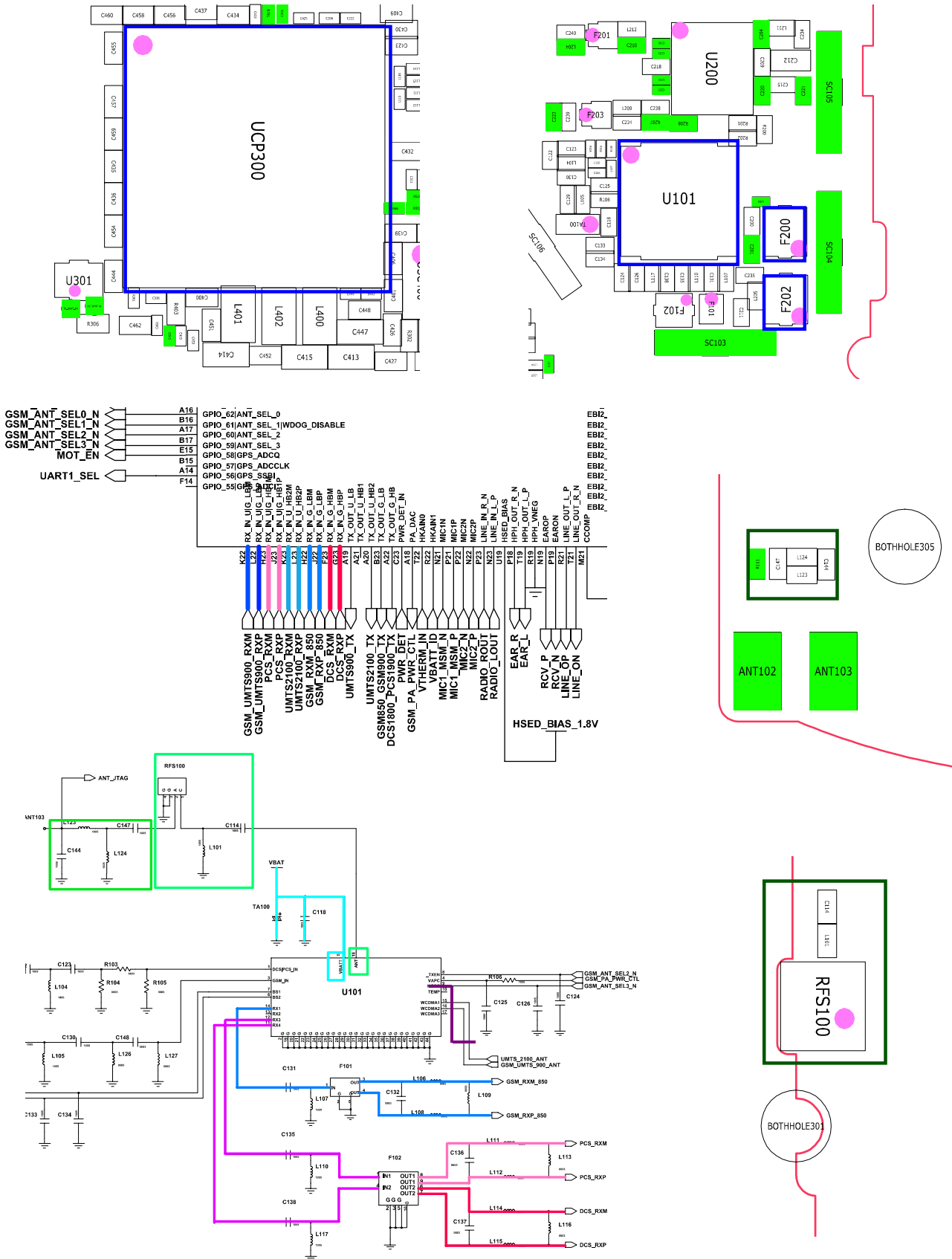
CONTINUOUS RX ON
RF INPUT : 661CH
AMP : -50dBm

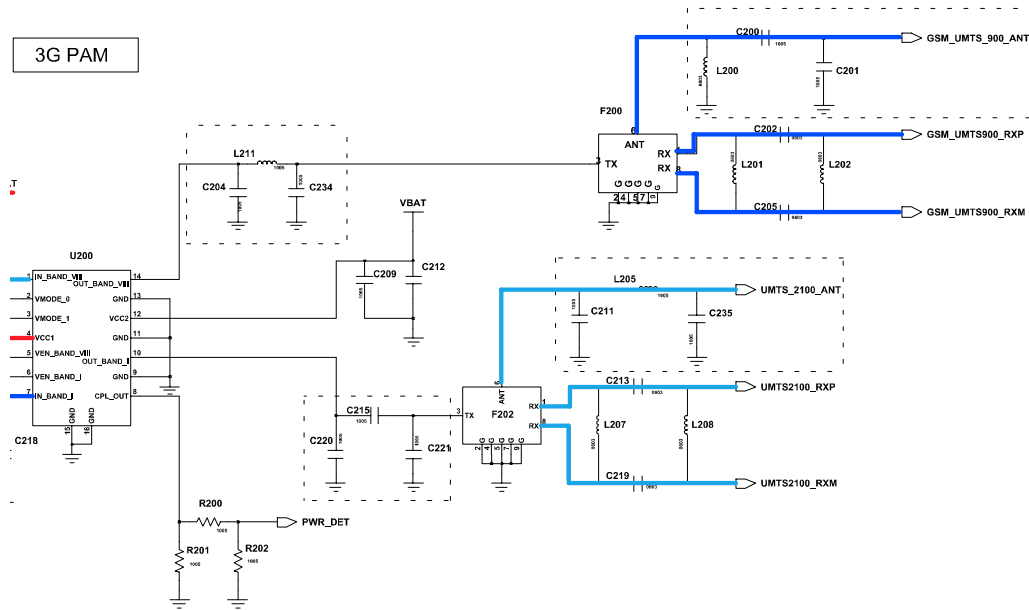


9-2-5. WCDMA Band1 RX

9-2-6. WCDMA Band8 RX

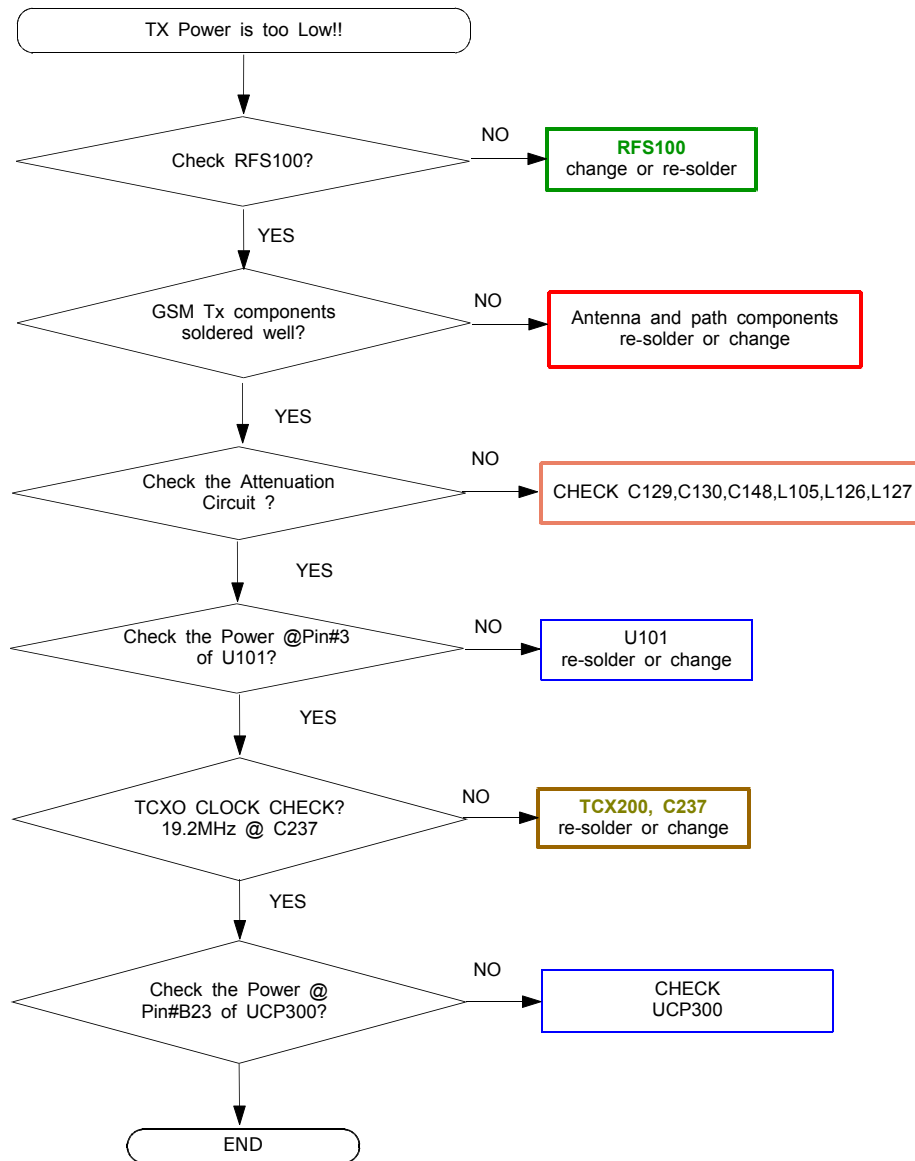




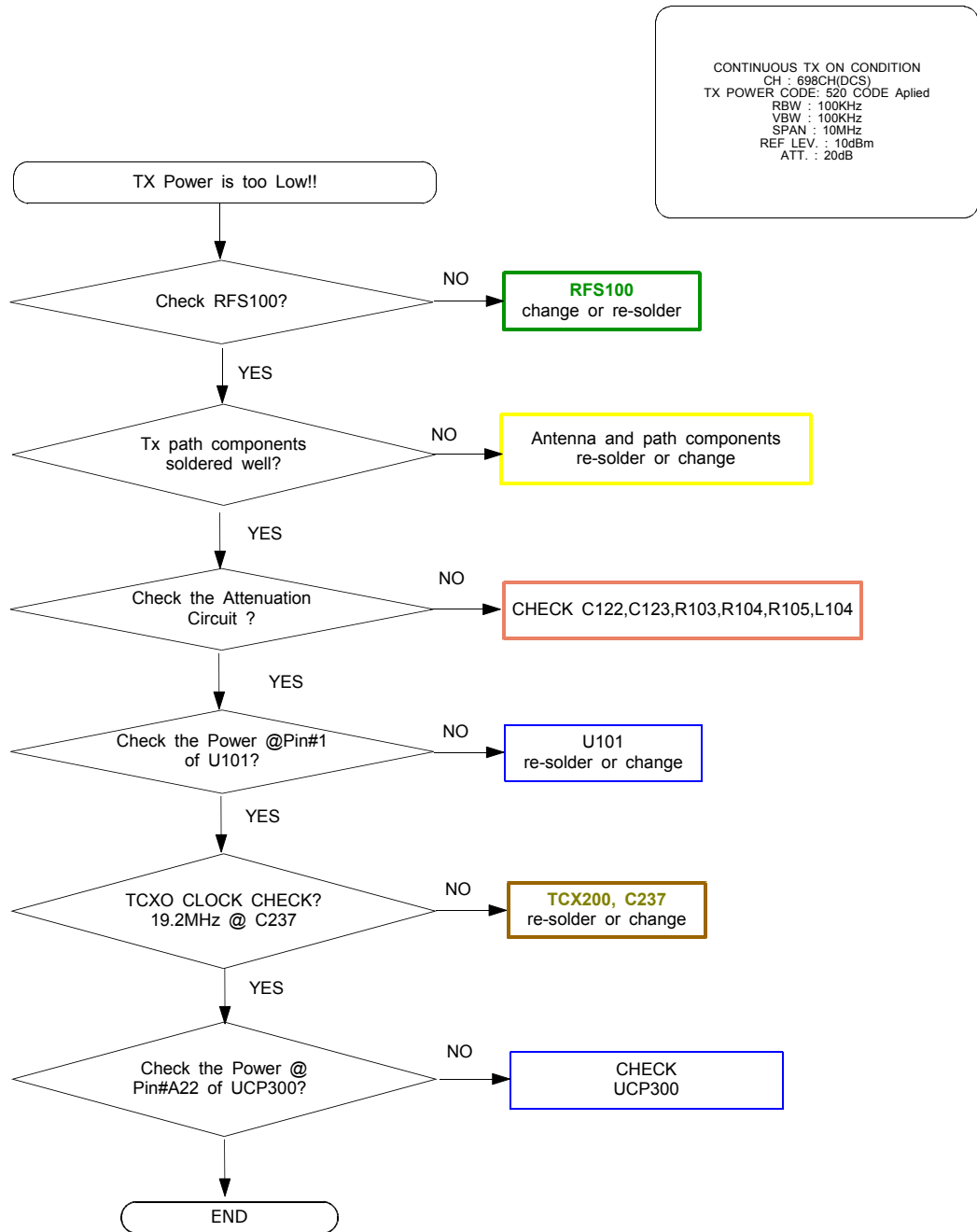


9-2-7. GSM850/ GSM900 TX

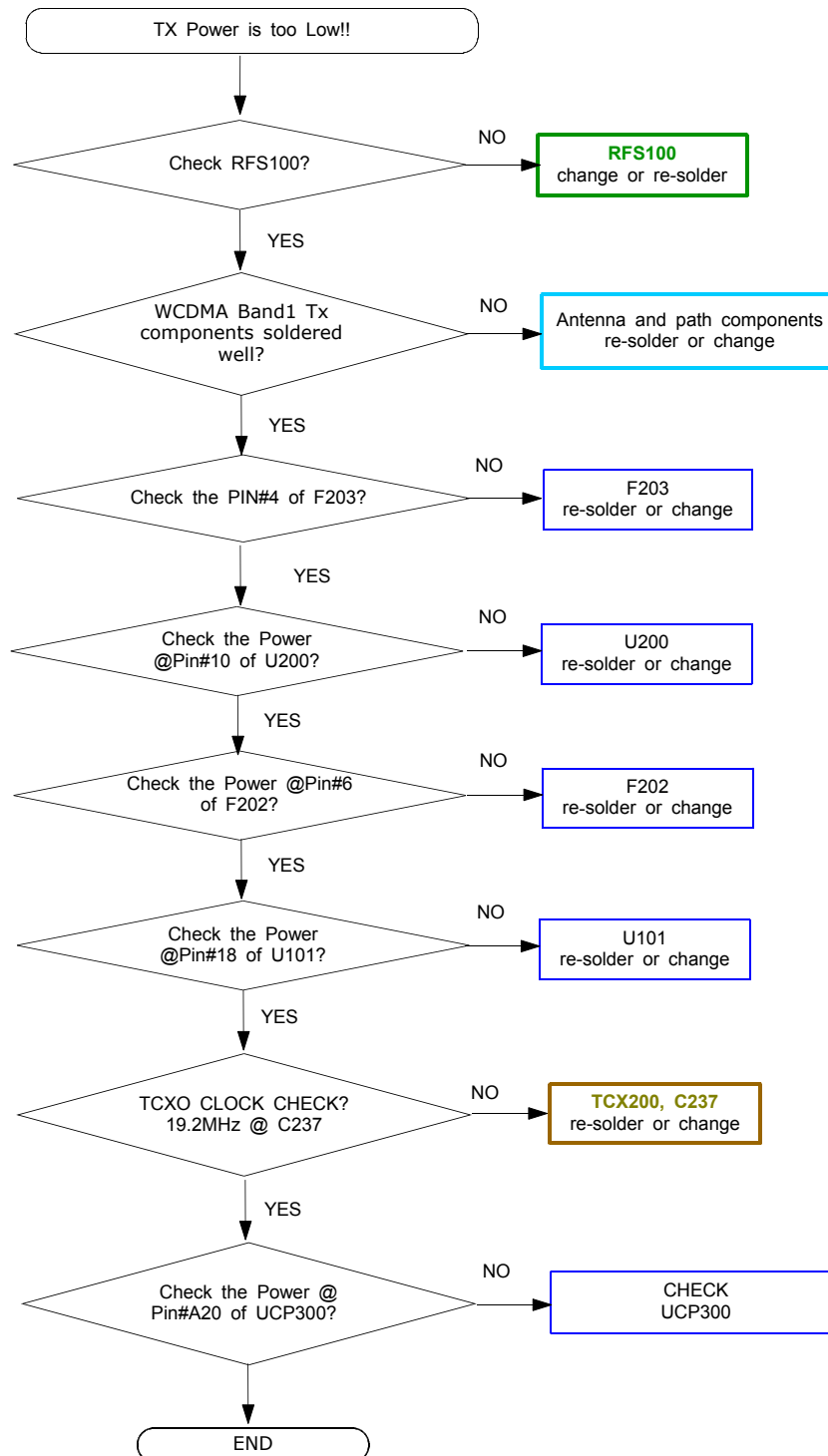
CONTINUOUS TX ON CONDITION
TX POWER DAC: 600 CODE APPLIED
CH : 190/37
RBW : 100KHz
VBW : 100KHz
SPAN : 10MHz
REF LEV. : 10dBm
ATT. : 20dB



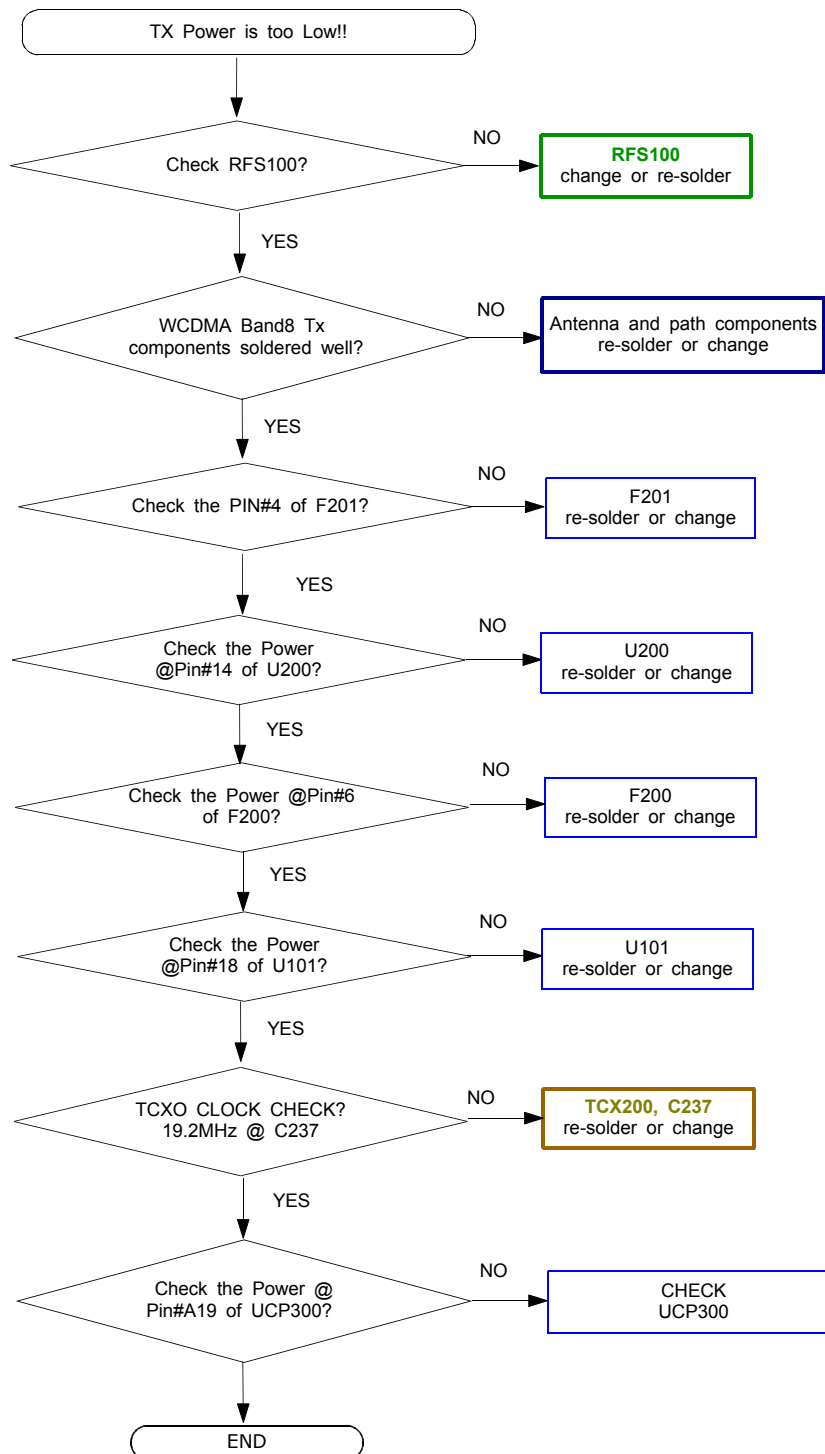
9-2-8. DCS/ PCS TX

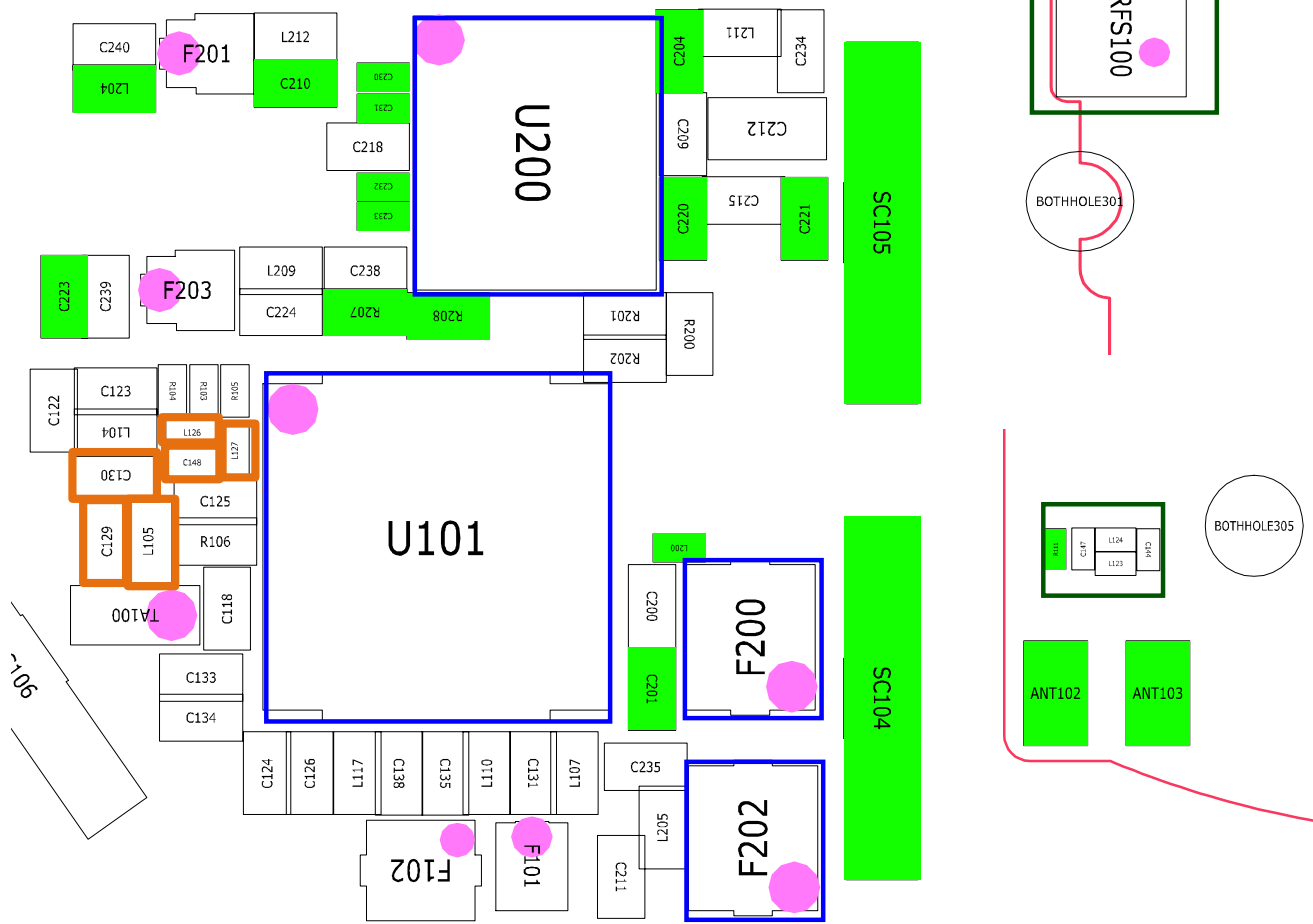
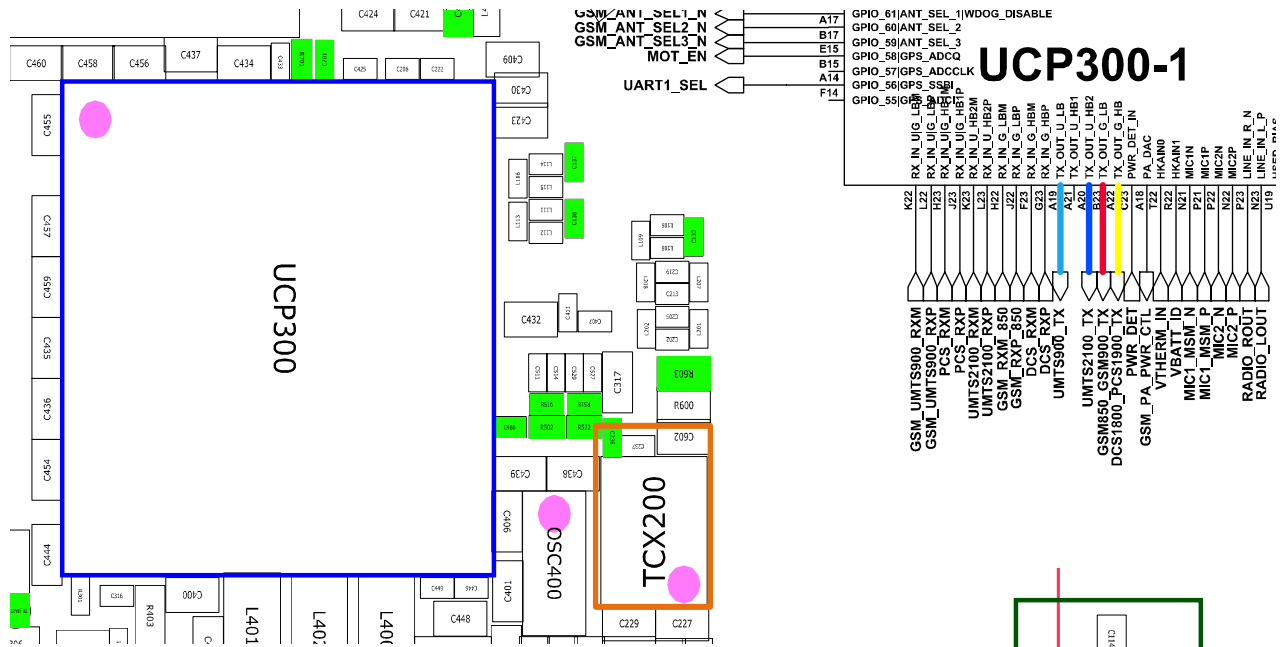


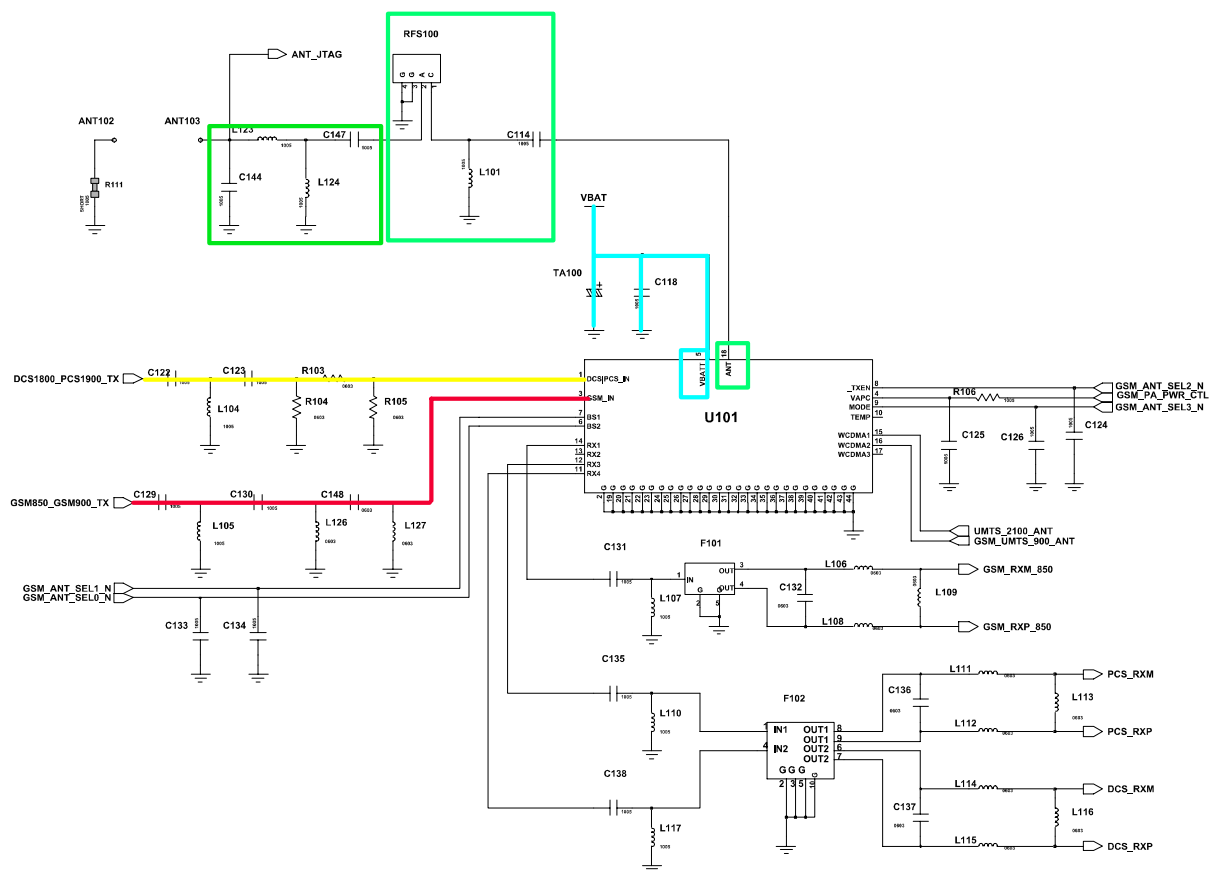
9-2-9. WCDMA Band1 TX



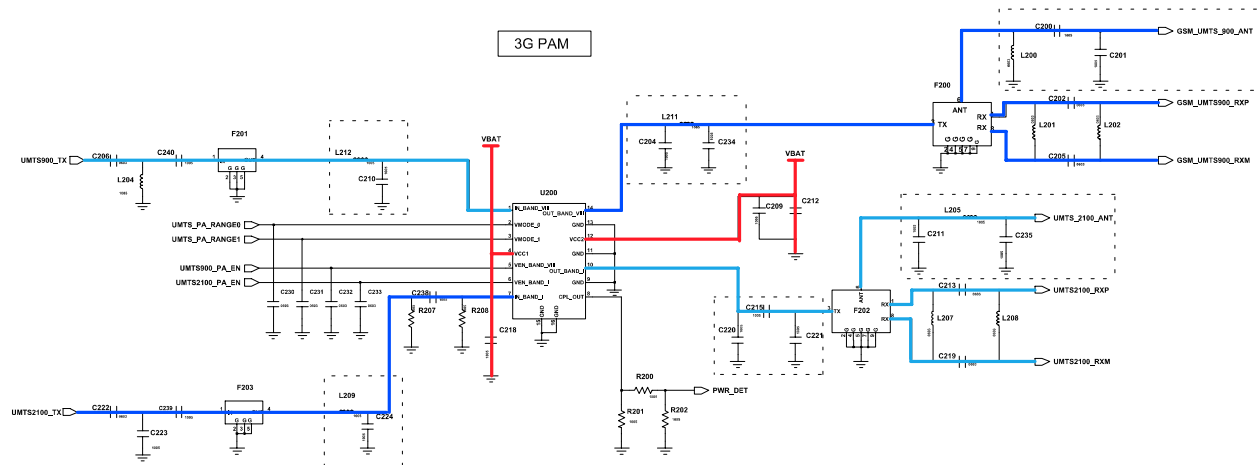
9-2-10. WCDMA Band8 TX



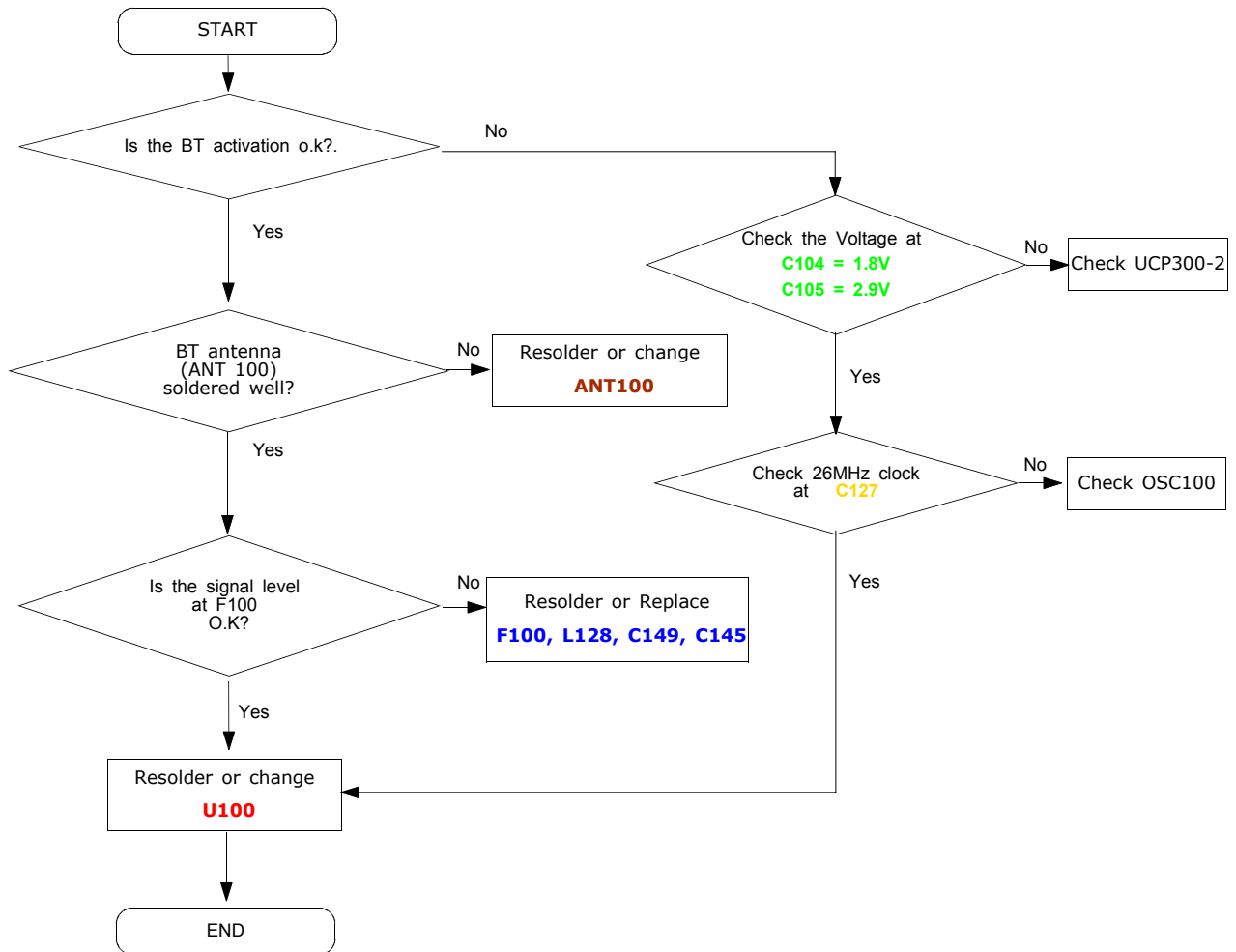


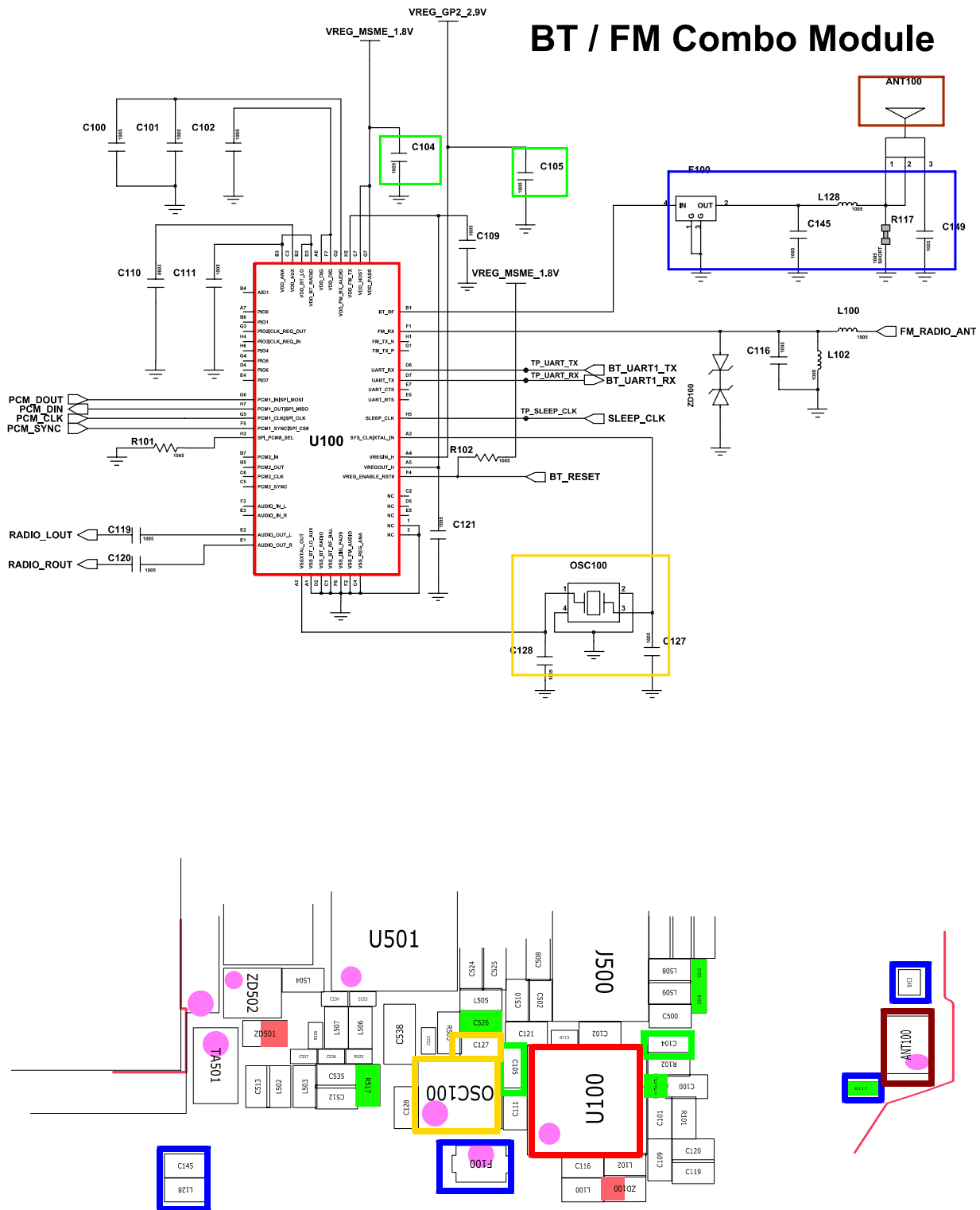


< WCDMA >

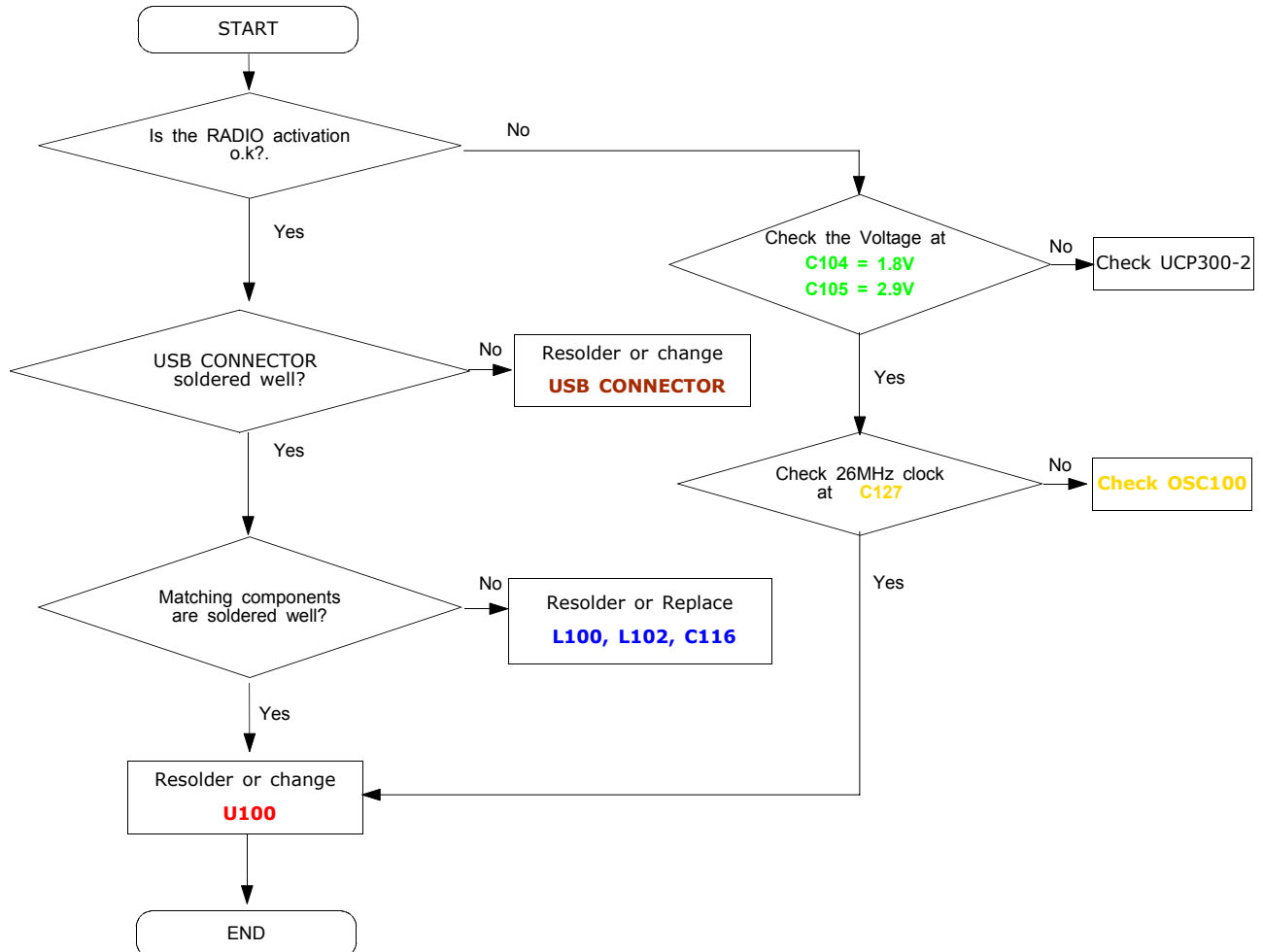


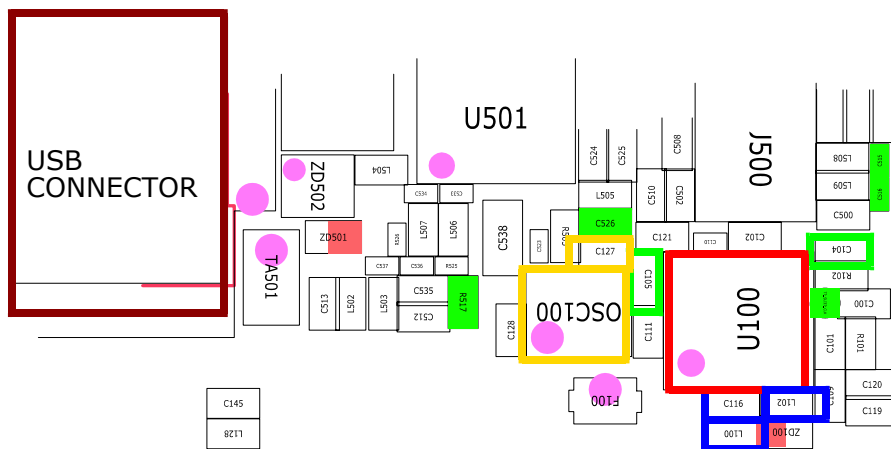
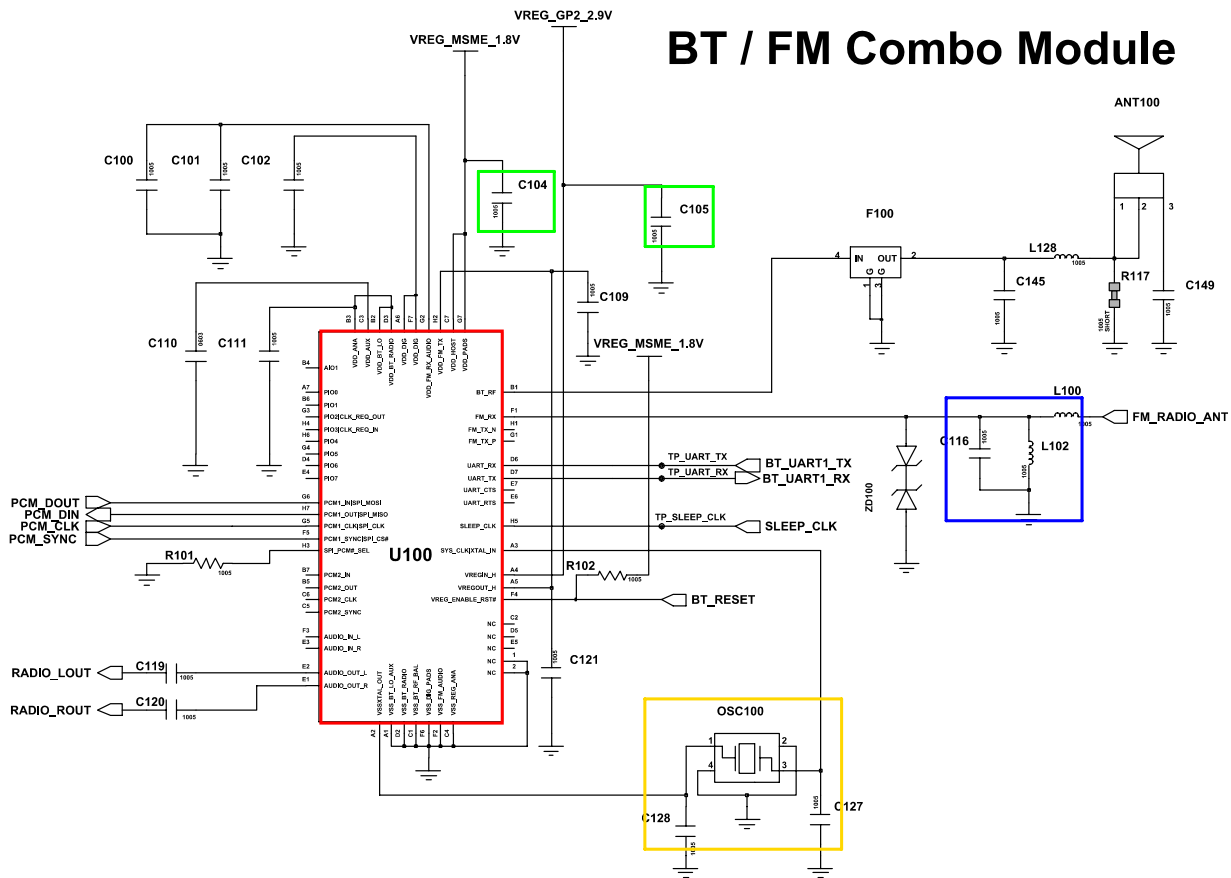
9-3. Bluetooth





9-4. FM Radio Part

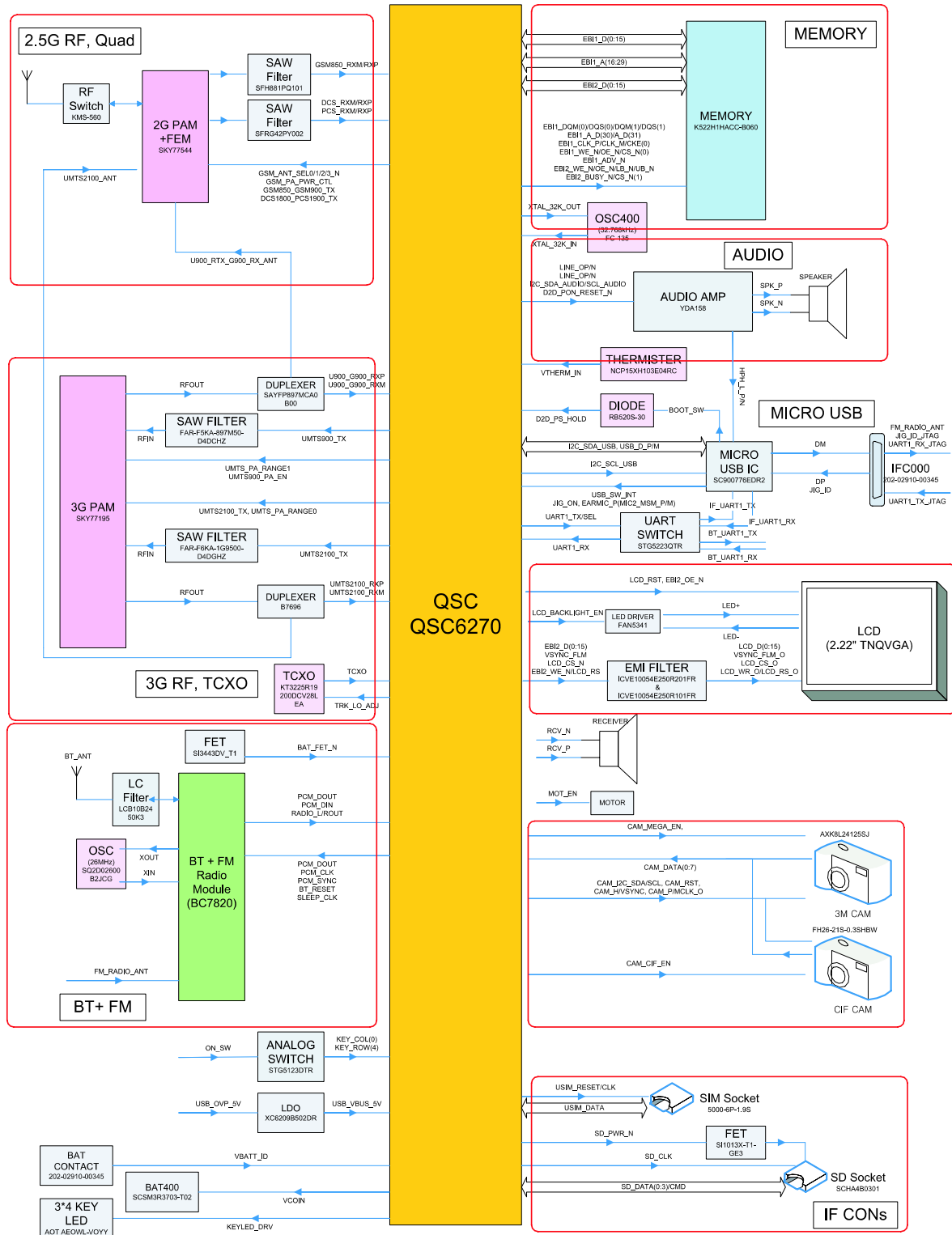




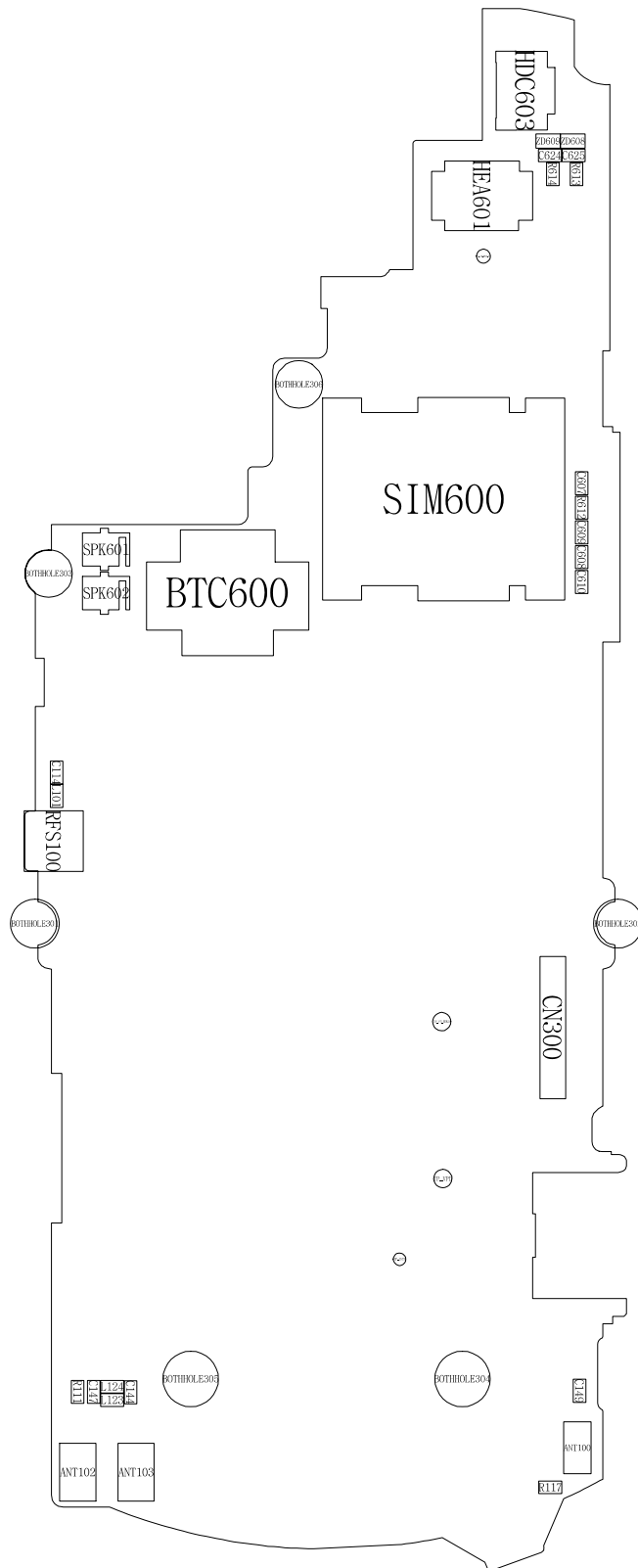
7. Block Diagrams

7-1. Block Diagram

Duras_091222 Block Diagram



8-1. Top





11. Disassembly and Assembly Instructions

11-1. Disassembly

1

- 1) Unscrew the 6 points.
- 2) Separate the REAR from the FRONT ass'y

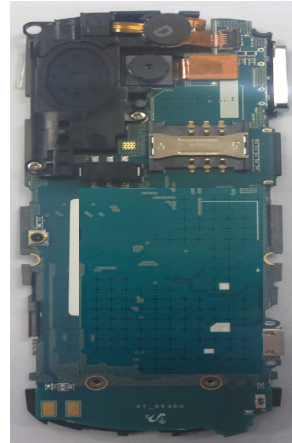


※ Caution

- 1) Be care of scratch and molding damage.

2

- 1) Separate the LCD bracket and PCB from the FRONT ass'y
- 2) Separate the keypad from the FRONT ass'y

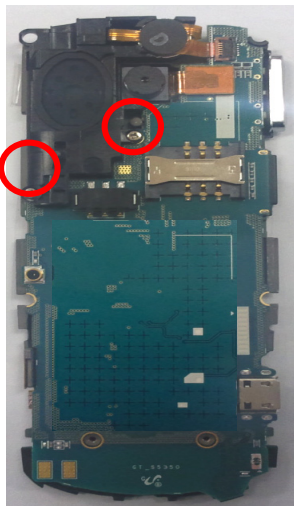


※ Caution

- 1) Be care of scratch and molding damage.

3

- 1) Unscrew the 2 points.
- 2) Unlock the SPK connector.
- 3) Separate the SPK from the PBA ass'y

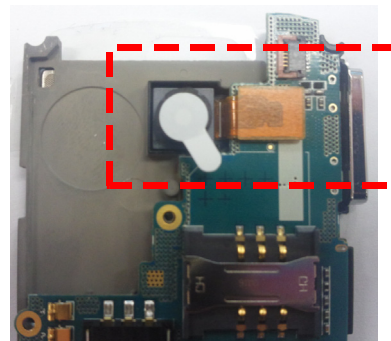


※ Caution

- 1) Be care of damage to SPK module

4

- 1) Separate the 3M camera from the PBA ass'y

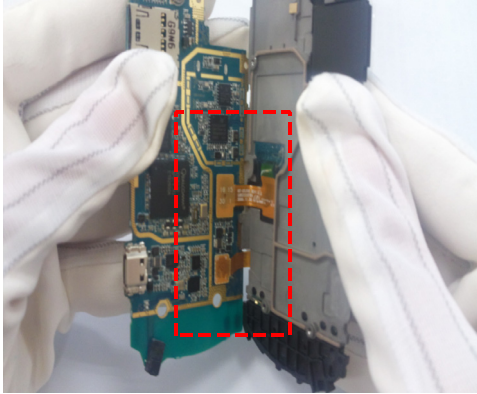


※ Caution

- 1) Be care of damage to PCB and 3M camera

5

1) Separate the PCB from the LCD bracket

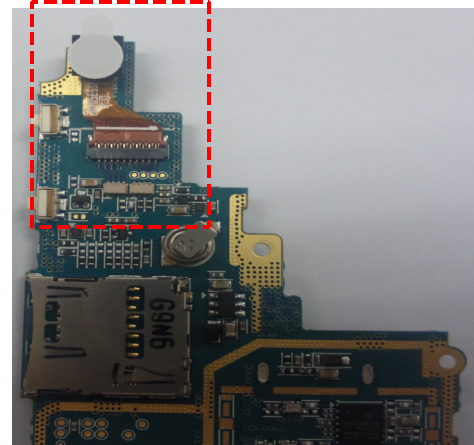


※ Caution

1) Be care of damage to PCB

6

1) Disassemble the CIF CAMERA from PBA

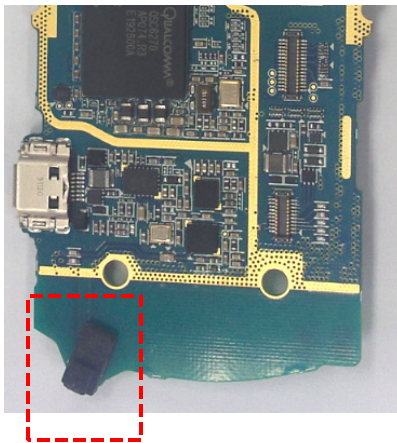


※ Caution

1) Be care of damage to CIF CAMERA

7

1) Disassemble the MIC RUBBER from PBA



※ Caution

1) Be care of damage to PCB

8

1) Separate the PCB from the LCD bracket



※ Caution

1) Be care of scratch and molding damage.

6

1) Disassemble the CIF CAMERA from PBA

**※ Caution**

1) Be care of scratch and LCD damage.

11-2. Assembly

1

1) Assemble the LCD module on the bracket



※ Caution

1) Be care of scratch to main WINDOW.

2

1) Assemble the TAPE on LCD BRACKET

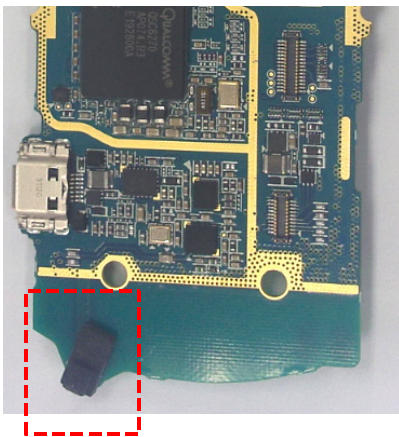


※ Caution

1) Be care of damage to Receiver.

3

1) Assemble the LCD module on the bracket

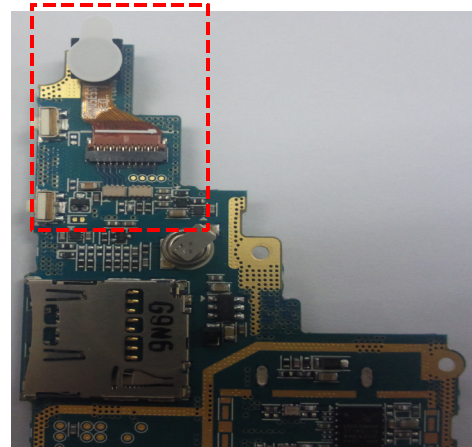


※ Caution

- 1) Be care of damage to PCB.
- 2) Be care of MIC RUBBER assembling direction

4

1) Assemble the CIF CAMERA to PBA

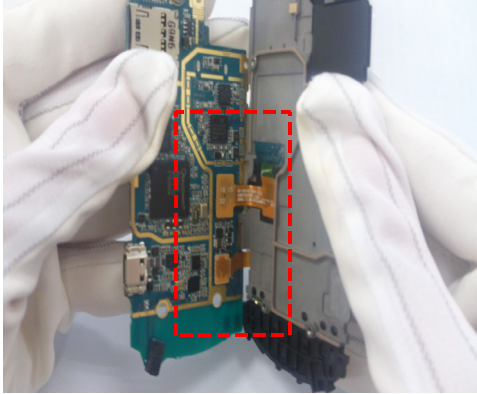


※ Caution

1) Be care of damage to PCB and CIF camera.

5

1) Connect the PCB to the LCD bracket

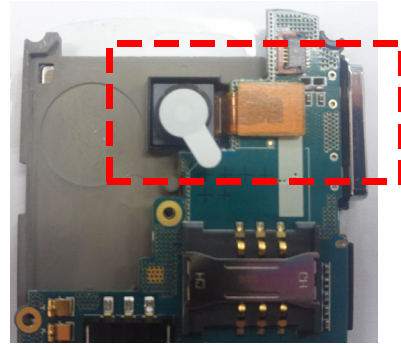


※ Caution

1) Be care of damage to PCB

6

1) Assemble the 3M camera from the PBA ass'y

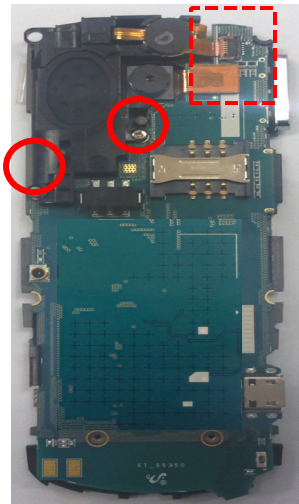


※ Caution

1) Be care of damage to PCB and 3M camera

7

1) Assemble the SPK.
 1) Lock the SPK connector.
 2) Screw the 2 points.



※ Caution

1) Be care of damage to SPK module

8

1) Assemble the PBA ass'y

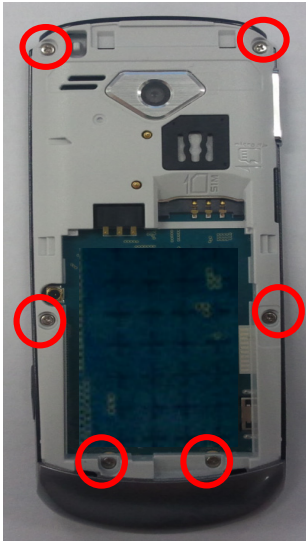


※ Caution

1) Be care of damage to PBA

9

- 1) Assemble the rear ass'y
- 2) Screw the 6 points.



※ Caution

- 1) Be care of scratch and molding damage.