SAMSUNG

GSM TELEPHONE

GT-S3370

SERVICE Manual

GSM TELEPHONE

CONTENTS

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

2010. 04. Rev.1.0

2. Specification

2-1. GSM850&900/DCS1800/PCS1900 General Specification

	GSM 850	EGSM 900 Phase 2	DCS1800 Phase 1	PCS 1900	WCDMA 2100	WCDMA 900 (optional)
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	880 ~ 915 925 ~ 960
ARFCN range	128~251	0~124 & 975~1023	512~885	512~810	UL : 9612 ~ 9888 DL : 10562 ~ 10838	UL : 2712 ~ 2863 DL : 2937 ~ 3088
Tx/Rx spacing	45MHz	45MHz	95 MHz	80 MHz	190MHz	45MHz
Mod. Bit rate/ Bit Period	270.833 kbps 3.692 us	270.833 kbps 3.692 us	270.833 kbps 3.692 us	270.833 kbps 3.692 us	3.84Mcps	3.84Mcps
Time slot Period/Frame Period	576.9 us 4.615 ms	576.9 us 4.615 ms	576.9 us 4.615 ms	576.9 us 4.615 ms	10 ms	10 ms
Modulation	0.3 GMSK	0.3 GMSK	0.3 GMSK	0.3 GMSK	UL : BPSK DL : QPSK	UL : BPSK DL : QPSK
MS Power	33 dBm ~ 5dBm	33 dBm ~ 5dBm	30dBm~0dBm	30dBm~0dBm	Max : 24dBm Min : -50dBm	Max : 24dBm Min : -50dBm
Power Class	Class 4	Class 4	Class 1	Class 1	Class 3	Class 3
Sensitivity	-102 dBm	-102 dBm	-102 dBm	-102 dBm	-106.7 dBm	-103.7 dBm
TDMA Mux	8	8	8	8	-	-
Cell Radius	35Km	35 Km	2Km	-	-	-

2-2. GSM TX power class

TX POWER LEVEL CONTOL	EGSM 850/900	TX POWER LEVEL CONTOL	DCS 1800	TX POWER LEVEL CONTOL	PCS 1900
5	33±2 dBm	0	30±3 dBm	0	30±3 dBm
6	31±2 dBm	1	28±3 dBm	1	28±3 dBm
7	29±2 dBm	2	26±3 dBm	2	26±3 dBm
8	27±2 dBm	3	24±3 dBm	3	24±3 dBm
9	25±2 dBm	4	22±3 dBm	4	22±3 dBm
10	23±2 dBm	5	20±3 dBm	5	20±3 dBm
11	21±2 dBm	6	18±3 dBm	6	18±3 dBm
12	19±2 dBm	7	16±3 dBm	7	16±3 dBm
13	17±2 dBm	8	14±3 dBm	8	14±3 dBm
14	15±2 dBm	9	12±3 dBm	9	12±3 dBm
15	13±2 dBm	10	10±4 dBm	10	10±4 dBm
16	11±3 dBm	11	8±4 dBm	11	8±4 dBm
17	9±3 dBm	12	6±4 dBm	12	6±4 dBm
18	7±3 dBm	13	4±4 dBm	13	4±4 dBm
19	5±3 dBm	14	2±5 dBm	14	2±5 dBm
		15	0±5 dBm	15	0±5 dBm

3. Product Function

Main Function

- 2.6”TN-QVGA Full Touch (R)
- 1.3MP FF
- EDGE 850/ 900/ 1800/ 1900 MHz
  UMTS(900 Option)/2100 MHz
- Music Player, Find Music, DNSe 2.0
  Stereo FM Radio (RDS)
- Bluetooth v2.1 EDR, USB v2.0 HS, Micro USB IF
- WAP 2.0 (Dolphine1.5)
- TouchWiz Lite 2.0(w/2.6”optimized GUI)
- Advanced widget, Multi IM(Palringo)
- Security : SOS Message, Fake call, Mobile Tracker
- Large Battery 1000mAh

4. Array course control

4-1. Software Adjustments

	
Test Jig (GH99-36900A)	**RF Test Cable (GH99-38251A)**
	
Test Cable (GH39-01290A)	**RF Test Cable (GH39-00985A)**

4-2. Software Downloading

4-2-1. Downloading Binary Files

- binary files and folder for downloading S3370

  BOOTFILES Folder

  amss_compressed

  CSC_S3370_Open_Europe_Common_OXA.csc

  FactoryFs_S3370_Open_Europe_Common.ffs

  Rsrc2_S3370(Low).rc2

  Rsrc_S3370_Open_Europe_Common.rc1

  ShpApp.app

4-2-2. Pre-requsite for Downloading

- Downloader Program : (MultiLoader_5.62(QSC Composite Driver).exe)
- GT-S3370 Mobile Phone
- Mico USB Data Cable

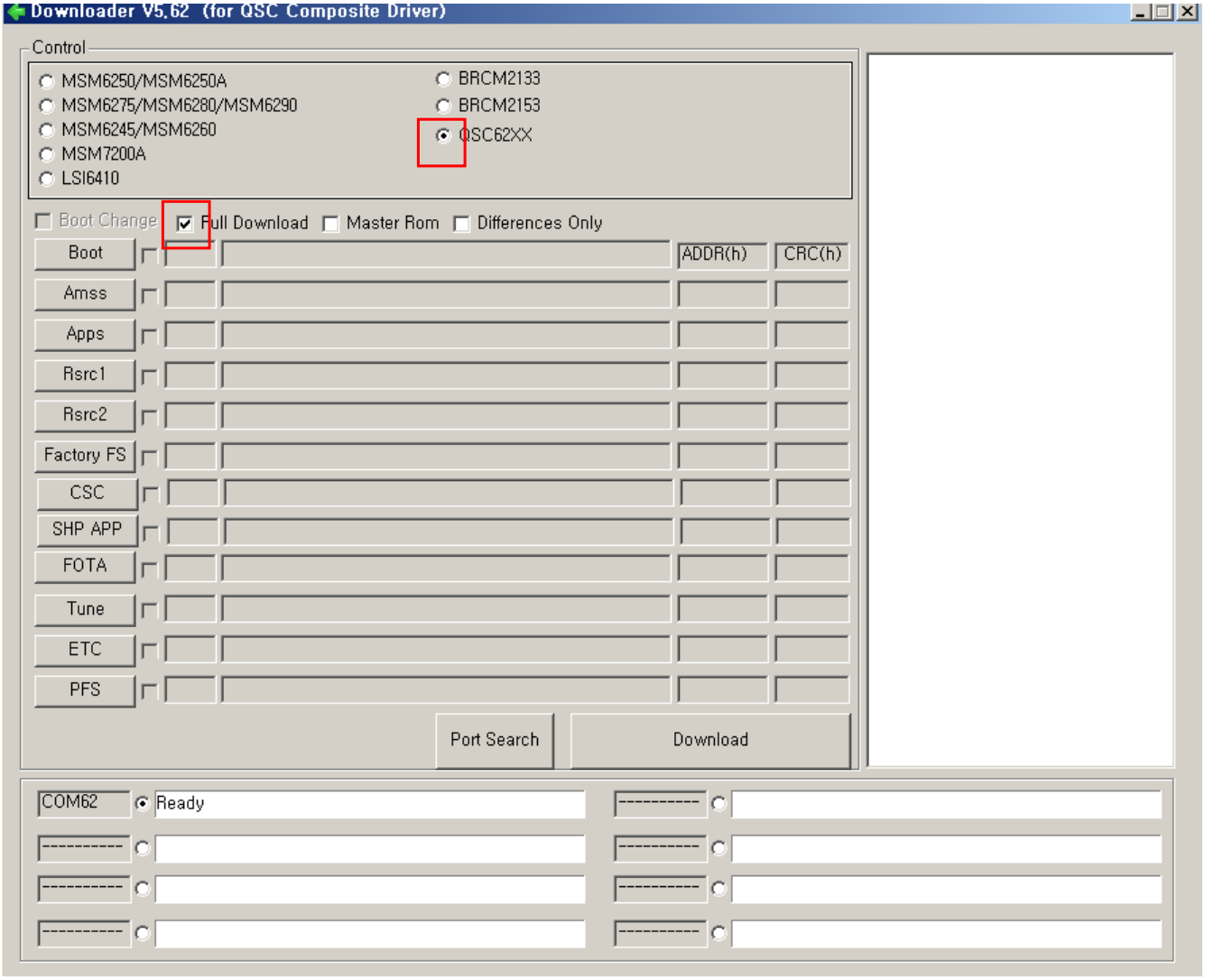
4-2-3. S/W Downloader Program

1 Before downloading program, Push Volume key Donwn + Camera key + END key
if you do properly, you can see the 'BOOT Loader' in red on the screen.

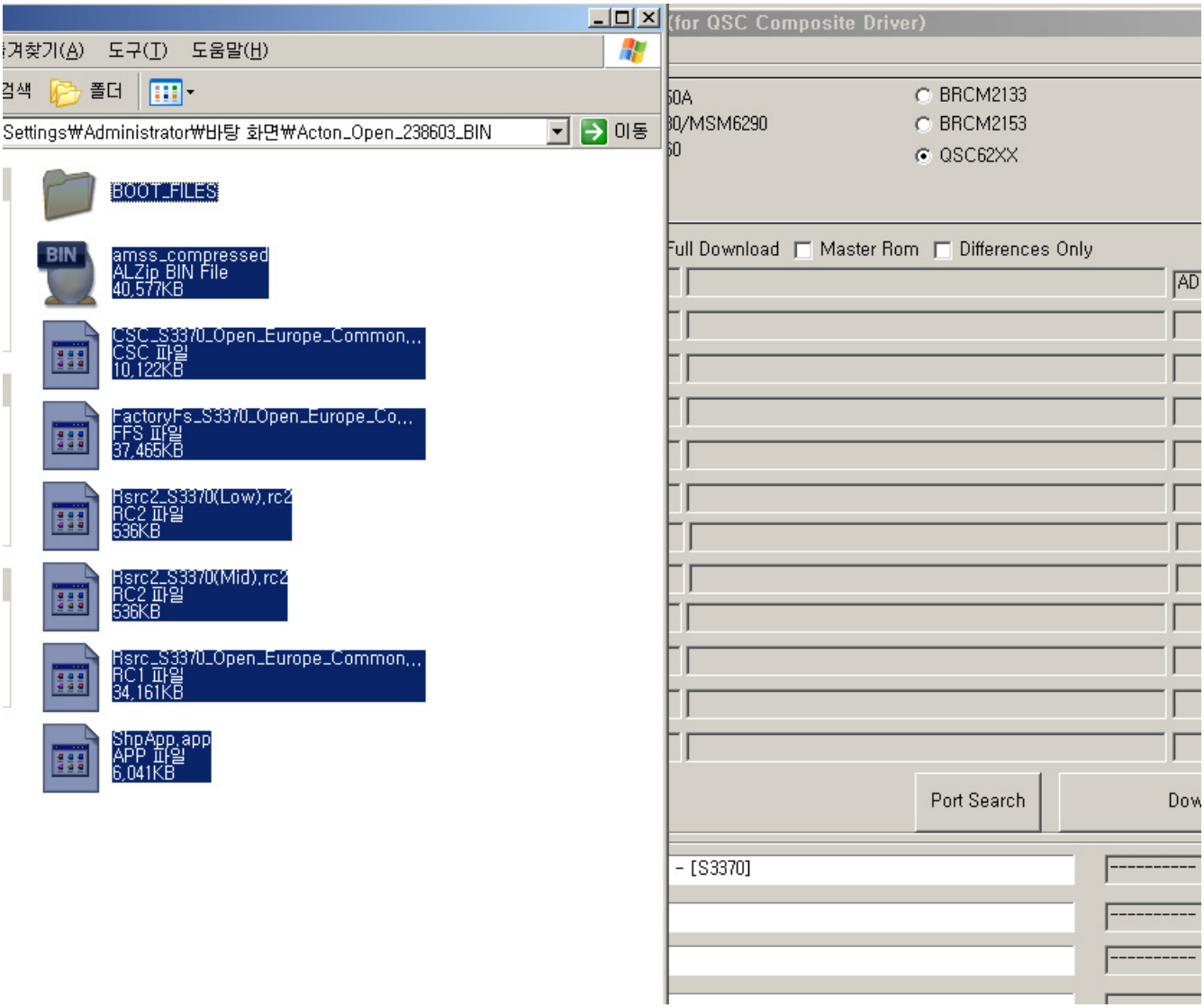
2. Connect the Micro USB data cable to the S3370

3. Execute MultiLoader_5.62(QSC Composite Driver).exe and push [Port Search]
if you do properly, you can see "Ready or Ready-[S3370]

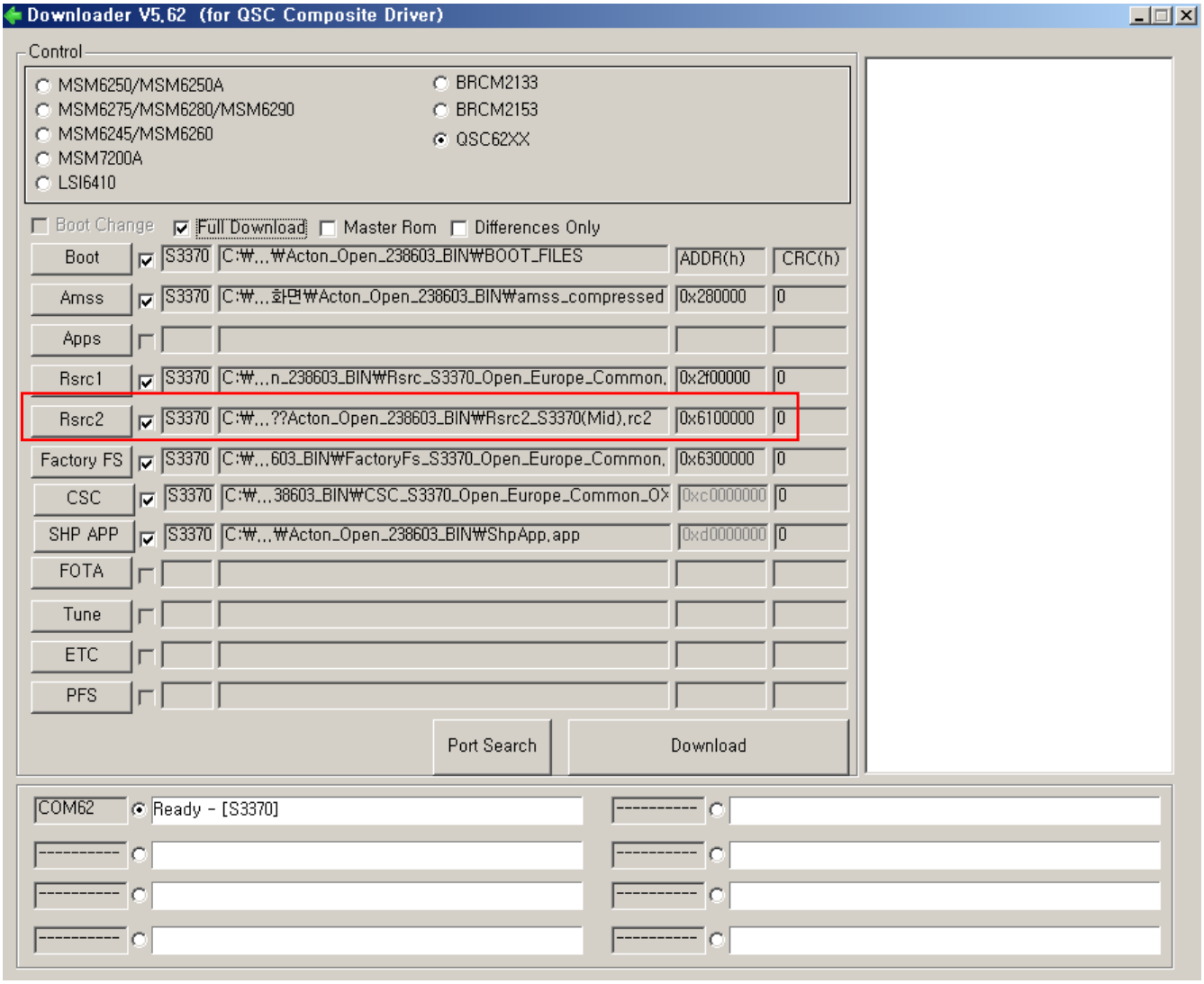
4 Check QSC62XX and Full Download



5 Drag and Drop All File into the Download Program

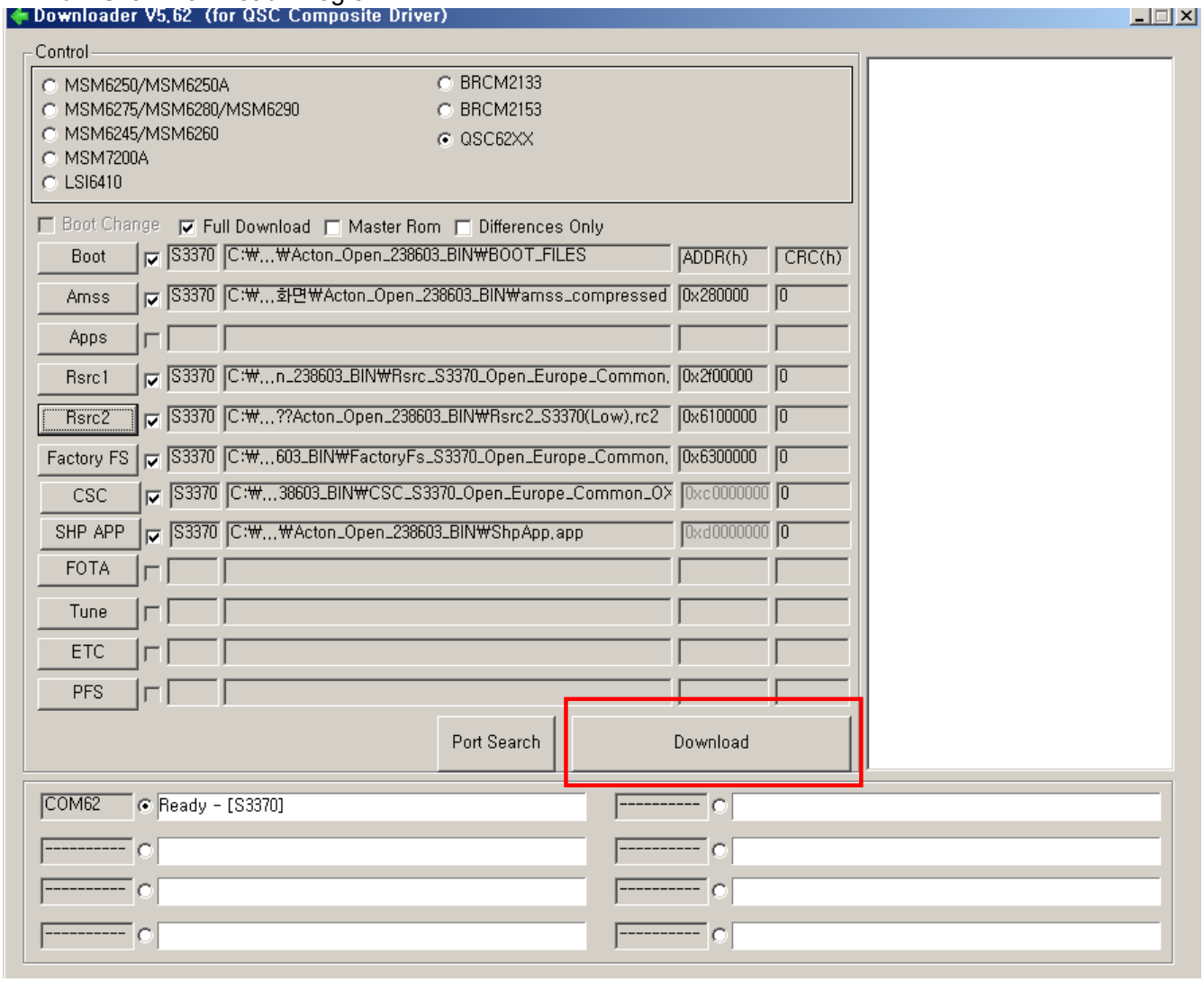


6 If you see Rsrc2 Part and involve in Rsrc2_S3370(Mid).rc2
you change file of Rsrc2_S3370(Low).rc2

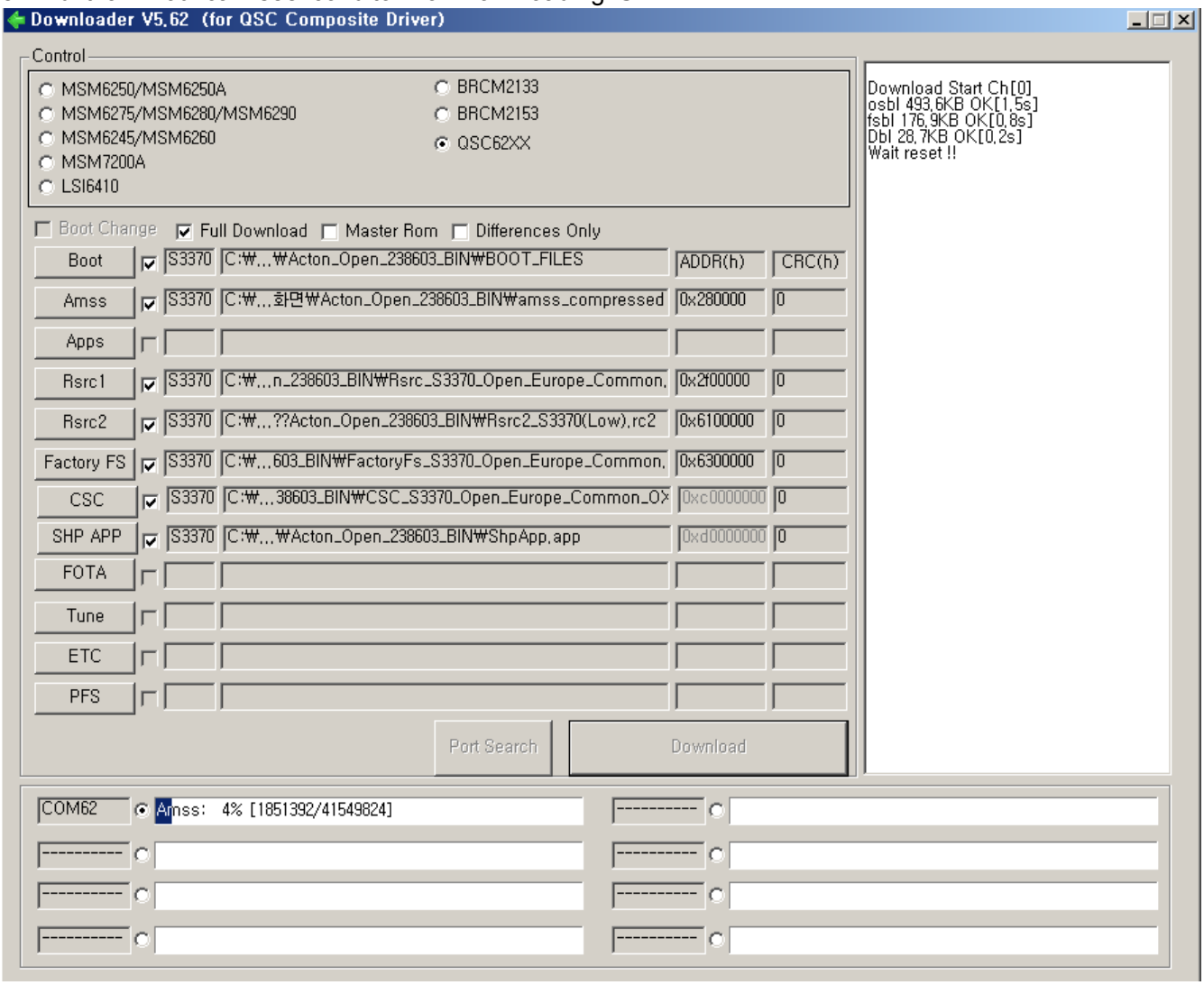


After Change the file

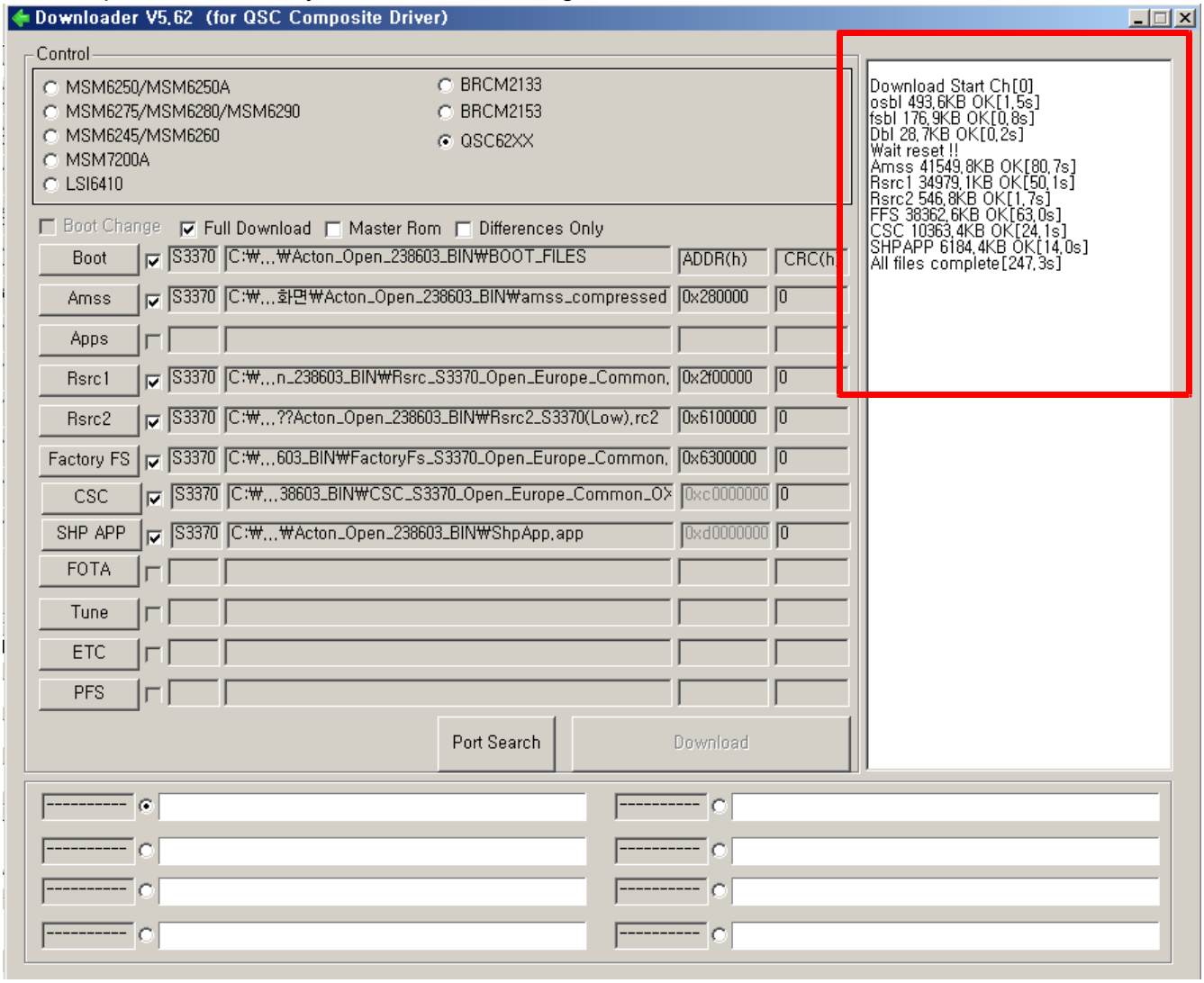
7 And Click Download Program



8 And than You can see conditoin of Downloading S/W



9 If completed donwload you can see that image



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.

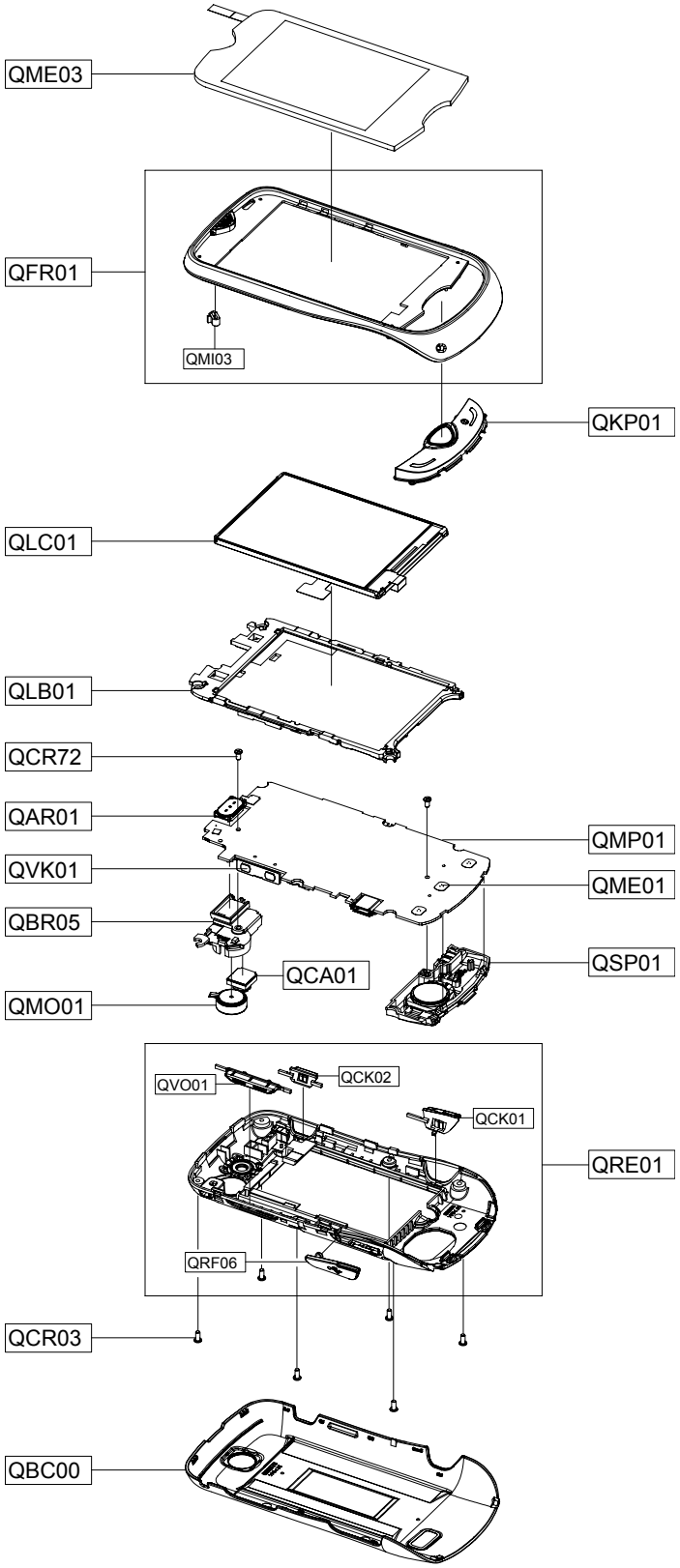
- Use soldering removing tool to break static electricity. , otherwise ESD will be damaged by static electricity.

- 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



6. MAIN Electrical Parts List

SEC CODE	Design LOC	Description
0403-001688	ZD701	DIODE-ZENER
0404-001172	D400	DIODE-SCHOTTKY
0406-001223	ZD400	DIODE-TVS
0406-001223	ZD500	DIODE-TVS
0406-001223	ZD501	DIODE-TVS
0406-001223	ZD603	DIODE-TVS
0406-001223	ZD604	DIODE-TVS
0406-001223	ZD700	DIODE-TVS
0406-001223	ZD702	DIODE-TVS
0406-001223	ZD703	DIODE-TVS
0406-001223	ZD704	DIODE-TVS
0406-001223	ZD705	DIODE-TVS
0406-001223	ZD706	DIODE-TVS
0406-001223	ZD707	DIODE-TVS
0406-001231	ZD401	DIODE-TVS
0406-001267	ZD502	DIODE-TVS
0406-001267	ZD503	DIODE-TVS
0406-001267	ZD508	DIODE-TVS
0406-001286	ZD708	DIODE-TVS
0406-001303	ZD507	DIODE-TVS
0406-001303	ZD509	DIODE-TVS
0406-001329	ZD505	DIODE-TVS
0406-001369	ZD504	DIODE-TVS
0406-001375	ZD506	DIODE-TVS
0407-001002	D401	DIODE-ARRAY
0505-001165	Q400	FET-SILICON
0505-002341	Q700	FET-SILICON
1001-001428	U300	IC-ANALOG MULTIPLEX
1001-001585	U501	IC-ANALOG MULTIPLEX
1001-001635	U500	IC-ANALOG SWITCH
1003-002047	U603	IC-MOTOR DRIVER
1108-000296	UME300	IC-MCP
1201-002764	U502	IC-AUDIO AMP
1201-002830	PAM100	IC-POWER AMP
1201-003088	PAM201	IC-POWER AMP
1203-005367	U400	IC-POSI.FIXED REG.

SEC CODE	Design LOC	Description
1203-005512	U606	IC-POSI.FIXED REG.
1203-005521	U601	IC-POSI.FIXED REG.
1203-005727	U602	IC-MULTI REG.
1203-006111	U600	IC-DC/DC CONVERTER
1204-003020	U101	IC-DEMODULATOR
1205-003517	U100	IC-BLUETOOTH
1205-003931	U604	IC-CONTROLLER
1205-003947	UCP300	IC-MODEM
1404-001224	VR300	THERMISTOR-NTC
2007-000137	R204	R-CHIP
2007-000138	R205	R-CHIP
2007-000138	R308	R-CHIP
2007-000138	R410	R-CHIP
2007-000138	R501	R-CHIP
2007-000138	R617	R-CHIP
2007-000141	R109	R-CHIP
2007-000141	R110	R-CHIP
2007-000141	R119	R-CHIP
2007-000141	R610	R-CHIP
2007-000141	R611	R-CHIP
2007-000141	R615	R-CHIP
2007-000141	R618	R-CHIP
2007-000141	R619	R-CHIP
2007-000148	R301	R-CHIP
2007-000148	R303	R-CHIP
2007-000148	R614	R-CHIP
2007-000148	R701	R-CHIP
2007-000148	R702	R-CHIP
2007-000148	R704	R-CHIP
2007-000148	R705	R-CHIP
2007-000148	R706	R-CHIP
2007-000148	R707	R-CHIP
2007-000152	R700	R-CHIP
2007-000153	R708	R-CHIP
2007-000157	R401	R-CHIP
2007-000157	R403	R-CHIP

SEC CODE	Design LOC	Description
2007-000162	R626	R-CHIP
2007-000162	R709	R-CHIP
2007-000162	R716	R-CHIP
2007-000172	R505	R-CHIP
2007-000172	R506	R-CHIP
2007-000932	R305	R-CHIP
2007-001298	R201	R-CHIP
2007-001298	R207	R-CHIP
2007-001305	R202	R-CHIP
2007-001305	R203	R-CHIP
2007-003015	R100	R-CHIP
2007-003015	R101	R-CHIP
2007-003112	R605	R-CHIP
2007-003112	R606	R-CHIP
2007-007156	R407	R-CHIP
2007-007875	R623	R-CHIP
2007-008049	R502	R-CHIP
2007-008419	R103	R-CHIP
2007-008419	R104	R-CHIP
2007-008419	R105	R-CHIP
2007-008419	R106	R-CHIP
2007-008516	R107	R-CHIP
2007-008579	R500	R-CHIP
2007-008588	R508	R-CHIP
2007-008588	R509	R-CHIP
2007-008588	R510	R-CHIP
2007-008588	R511	R-CHIP
2007-008766	R406	R-CHIP
2007-008774	R208	R-CHIP
2007-008809	R306	R-CHIP
2007-008809	R405	R-CHIP
2007-008811	R613	R-CHIP
2007-009115	R512	R-CHIP
2007-009115	R513	R-CHIP
2007-009211	R209	R-CHIP
2007-009211	R210	R-CHIP

SEC CODE	Design LOC	Description
2203-000233	C134	C-CER,CHIP
2203-000233	C206	C-CER,CHIP
2203-000233	C403	C-CER,CHIP
2203-000233	C409	C-CER,CHIP
2203-000254	C101	C-CER,CHIP
2203-000254	C102	C-CER,CHIP
2203-000254	C120	C-CER,CHIP
2203-000254	C215	C-CER,CHIP
2203-000254	C301	C-CER,CHIP
2203-000254	C408	C-CER,CHIP
2203-000254	C453	C-CER,CHIP
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2203-000254	C531	C-CER,CHIP
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2203-000386	C620	C-CER,CHIP
2203-000386	C621	C-CER,CHIP
2203-000438	C213	C-CER,CHIP
2203-000438	C300	C-CER,CHIP
2203-000438	C536	C-CER,CHIP
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2203-000696	C307	C-CER,CHIP
2203-000725	C614	C-CER,CHIP
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SEC CODE	Design LOC	Description
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2203-000854	C140	C-CER,CHIP
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2203-002668	C113	C-CER,CHIP
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2203-002668	C126	C-CER,CHIP
2203-002668	C142	C-CER,CHIP
2203-002668	C144	C-CER,CHIP
2203-002677	C224	C-CER,CHIP
2203-003054	C143	C-CER,CHIP
2203-005288	C125	C-CER,CHIP
2203-005444	C145	C-CER,CHIP
2203-005450	C122	C-CER,CHIP
2203-005480	C214	C-CER,CHIP
2203-005481	C106	C-CER,CHIP
2203-005682	C111	C-CER,CHIP
2203-005682	C239	C-CER,CHIP
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2203-005727	C548	C-CER,CHIP
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2203-005729	C504	C-CER,CHIP
2203-005729	C545	C-CER,CHIP
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2203-005732	C503	C-CER,CHIP
2203-005734	C226	C-CER,CHIP
2203-005736	C107	C-CER,CHIP
2203-005736	C235	C-CER,CHIP
2203-005736	C240	C-CER,CHIP
2203-005736	C415	C-CER,CHIP
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2203-006305	C629	C-CER,CHIP
2203-006305	C630	C-CER,CHIP
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2203-006642	C229	C-CER,CHIP
2203-006693	C434	C-CER,CHIP
2203-006839	C443	C-CER,CHIP
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2203-006839	C507	C-CER,CHIP
2203-006839	C527	C-CER,CHIP
2203-006841	C402	C-CER,CHIP
2203-006841	C525	C-CER,CHIP
2203-006872	C100	C-CER,CHIP

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2203-006872	C428	C-CER,CHIP
2203-006872	C429	C-CER,CHIP
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2203-006872	C431	C-CER,CHIP
2203-006872	C432	C-CER,CHIP
2203-006872	C433	C-CER,CHIP
2203-006872	C455	C-CER,CHIP
2203-007194	C222	C-CER,CHIP
2203-007194	C225	C-CER,CHIP
2203-007270	C410	C-CER,CHIP
2203-007270	C411	C-CER,CHIP
2203-007270	C412	C-CER,CHIP
2203-007271	C230	C-CER,CHIP
2203-007271	C446	C-CER,CHIP
2203-007271	C608	C-CER,CHIP
2203-007271	C616	C-CER,CHIP
2203-007271	C631	C-CER,CHIP
2203-007279	C444	C-CER,CHIP
2203-007279	C445	C-CER,CHIP
2203-007279	C447	C-CER,CHIP
2203-007279	C528	C-CER,CHIP
2203-007279	C541	C-CER,CHIP
2203-007317	C404	C-CER,CHIP
2203-007317	C407	C-CER,CHIP
2203-007317	C413	C-CER,CHIP
2203-007317	C414	C-CER,CHIP
2203-007317	C416	C-CER,CHIP
2203-007317	C439	C-CER,CHIP
2203-007317	C448	C-CER,CHIP

SEC CODE	Design LOC	Description
2203-007317	C513	C-CER,CHIP
2203-007317	C609	C-CER,CHIP
2203-007369	C526	C-CER,CHIP
2404-001465	TA500	C-TA,CHIP
2404-001496	TA700	C-TA,CHIP
2404-001506	TA400	C-TA,CHIP
2404-001506	TA401	C-TA,CHIP
2404-001572	TA100	C-TA,CHIP
2409-001166	BAT400	C-EDL
2703-001178	L221	INDUCTOR-SMD
2703-001729	L112	INDUCTOR-SMD
2703-001733	L118	INDUCTOR-SMD
2703-001733	L119	INDUCTOR-SMD
2703-001737	L113	INDUCTOR-SMD
2703-002200	L105	INDUCTOR-SMD
2703-002203	L120	INDUCTOR-SMD
2703-002208	L220	INDUCTOR-SMD
2703-002368	L117	INDUCTOR-SMD
2703-002649	L205	INDUCTOR-SMD
2703-002793	L213	INDUCTOR-SMD
2703-002794	L106	INDUCTOR-SMD
2703-002794	L108	INDUCTOR-SMD
2703-002794	L109	INDUCTOR-SMD
2703-002794	L111	INDUCTOR-SMD
2703-002794	L114	INDUCTOR-SMD
2703-002794	L116	INDUCTOR-SMD
2703-002798	L217	INDUCTOR-SMD
2703-002858	L102	INDUCTOR-SMD
2703-002858	L103	INDUCTOR-SMD
2703-002900	L400	INDUCTOR-SMD
2703-002900	L401	INDUCTOR-SMD
2703-002901	L204	INDUCTOR-SMD
2703-002919	L104	INDUCTOR-SMD
2703-002919	L107	INDUCTOR-SMD
2703-002919	L110	INDUCTOR-SMD
2703-002958	L405	INDUCTOR-SMD

SEC CODE	Design LOC	Description
2703-002958	L406	INDUCTOR-SMD
2703-003004	L101	INDUCTOR-SMD
2703-003121	L115	INDUCTOR-SMD
2703-003125	L219	INDUCTOR-SMD
2703-003258	L402	INDUCTOR-SMD
2703-003258	L403	INDUCTOR-SMD
2703-003258	L404	INDUCTOR-SMD
2703-003347	L508	INDUCTOR-SMD
2703-003479	L300	INDUCTOR-SMD
2703-003479	L701	INDUCTOR-SMD
2703-003479	L702	INDUCTOR-SMD
2703-003479	L703	INDUCTOR-SMD
2703-003479	L704	INDUCTOR-SMD
2703-003479	L706	INDUCTOR-SMD
2703-003748	L600	INDUCTOR-SMD
2801-004589	OSC100	CRYSTAL-SMD
2801-004902	OSC400	CRYSTAL-SMD
2809-001280	TCX200	OSCILLATOR-VCTCXO
2901-001409	F602	FILTER-EMI SMD
2901-001480	F600	FILTER-EMI/ESD
2901-001480	F601	FILTER-EMI/ESD
2904-001789	F201	FILTER-SAW
2910-000062	DUF201	DUPLEXER-SAW
2910-000092	DUF200	DUPLEXER-SAW
2911-000145	FEM100	DUPLEXER-FEM
3003-001136	MIC_500	MIC MEMS
3003-001138	MIC_501	MIC MEMS
3301-001534	L700	BEAD-SMD
3301-001729	L506	BEAD-SMD
3301-001729	L507	BEAD-SMD
3301-001812	L601	BEAD-SMD
3301-001885	L500	BEAD-SMD
3301-001885	L501	BEAD-SMD
3301-001885	L502	BEAD-SMD
3301-001885	L504	BEAD-SMD
3301-001885	L509	BEAD-SMD

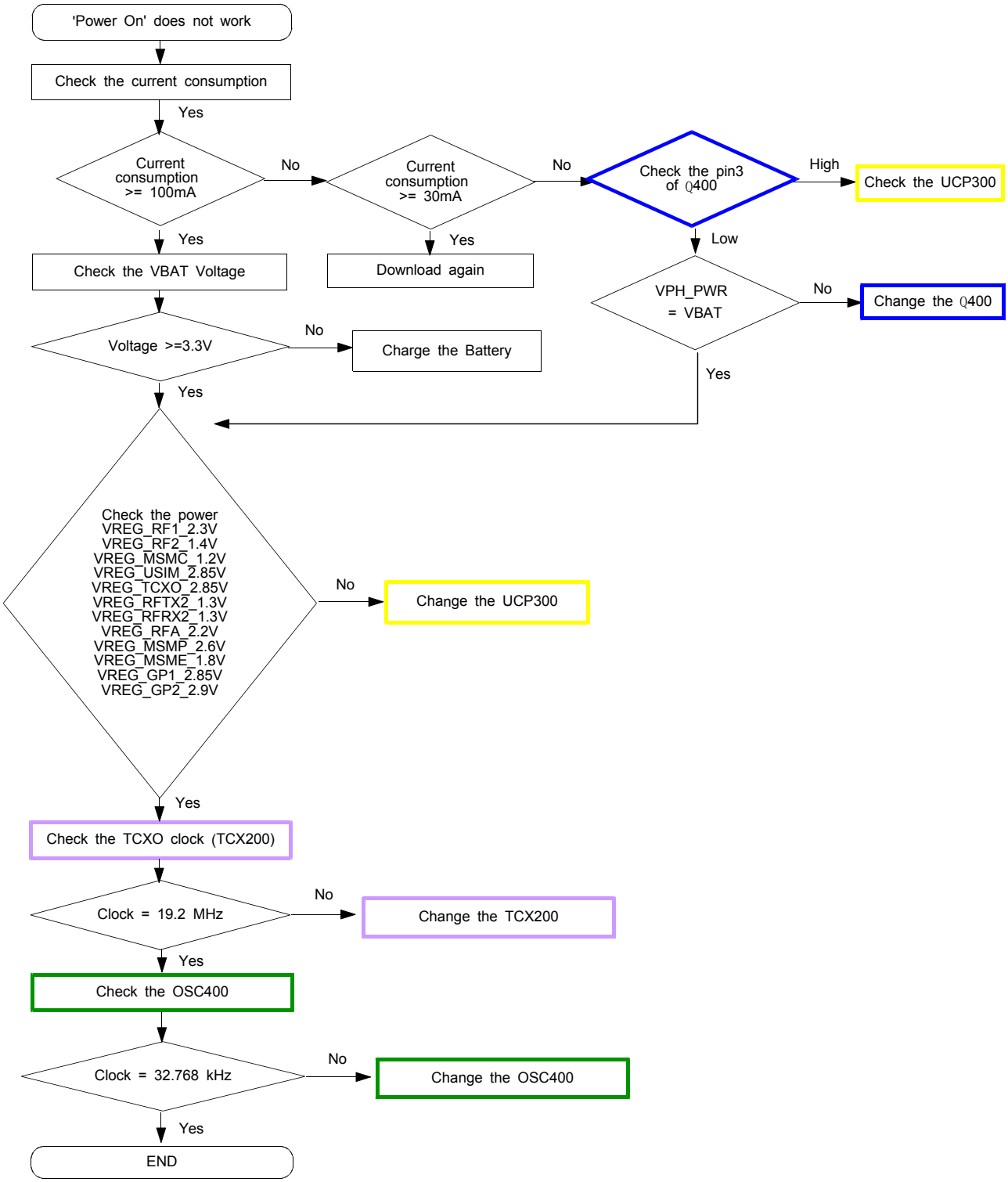
SEC CODE	Design LOC	Description
3301-001885	L510	BEAD-SMD
3404-001152	TACT700	SWITCH-TACT
3404-001152	TACT702	SWITCH-TACT
3705-001503	RFS100	CONNECTOR-COAXIAL
3708-002015	SLC600	CONNECTOR-FPC/FFC/PIC
3709-001488	SIM700	CONNECTOR-CARD EDGE
3709-001575	CD700	CONNECTOR-CARD EDGE
3711-006808	BTC700	HEADER-BATTERY
3711-006882	HEA600	HEADER-BOARD TO BOARD
3711-006919	HDC_600	HEADER-BOARD TO BOARD
3722-002871	IFC500	JACK-MINI USB
4709-001615	F100	BALUN
GH70-03951A	SC100	ICT SHIELD-SHIELD CAN CLIP
GH70-03951A	SC101	ICT SHIELD-SHIELD CAN CLIP
GH70-03951A	SC102	ICT SHIELD-SHIELD CAN CLIP
GH70-03951A	SC103	ICT SHIELD-SHIELD CAN CLIP
GH70-03951A	SC104	ICT SHIELD-SHIELD CAN CLIP
GH71-08731A	ANT100	NPR CONTACT-CAM
GH71-08731A	ANT101	NPR CONTACT-CAM
GH71-08731A	ANT102	NPR CONTACT-CAM
GH71-08731A	SPK500	NPR CONTACT-CAM
GH71-08731A	SPK501	NPR CONTACT-CAM
GH80-03320A	R121	SOLDER-CREAM/SMT KOREA(FREE)

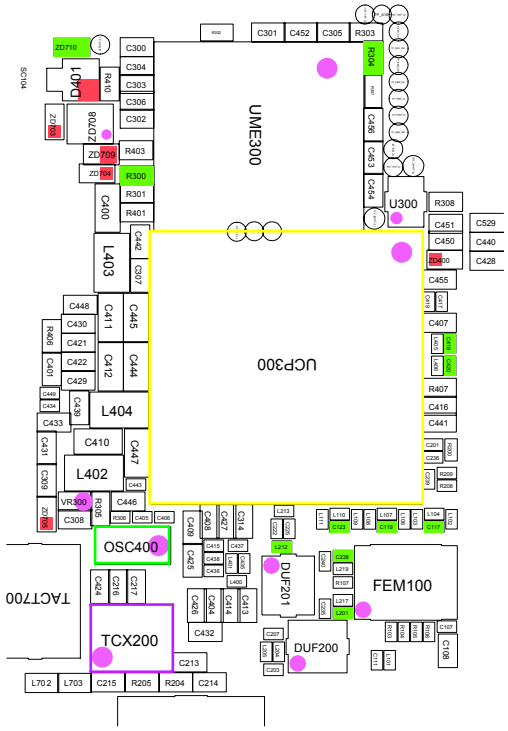
Please consult the GSPN website (Samsung Portal) for the most recent version of the product's part list.

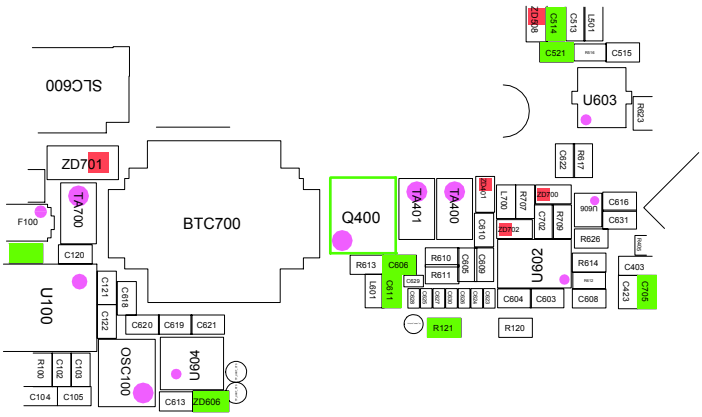
9. Flow Chart of Troubleshooting

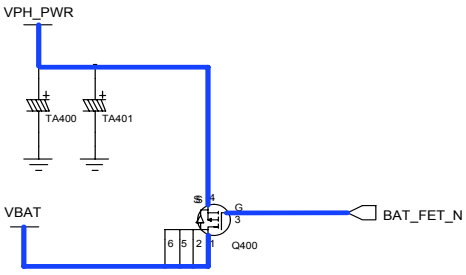
9-1. Baseband

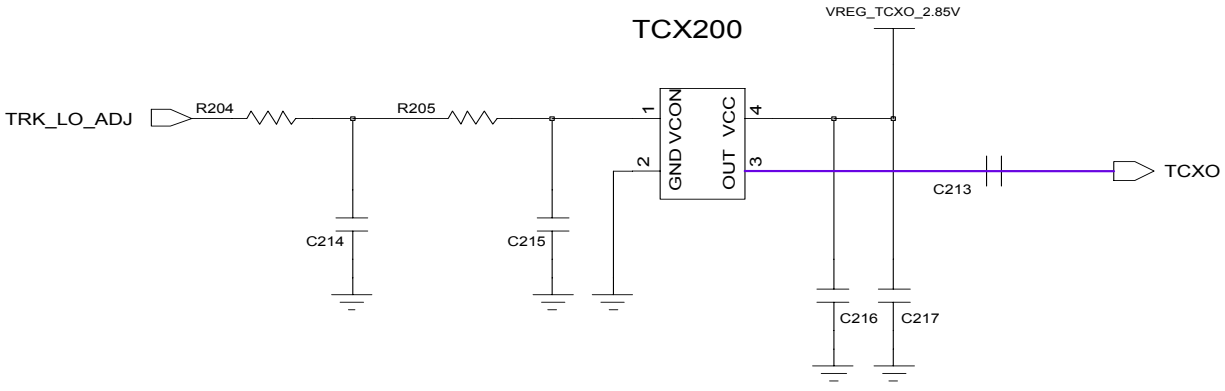
9-1-1. Power ON



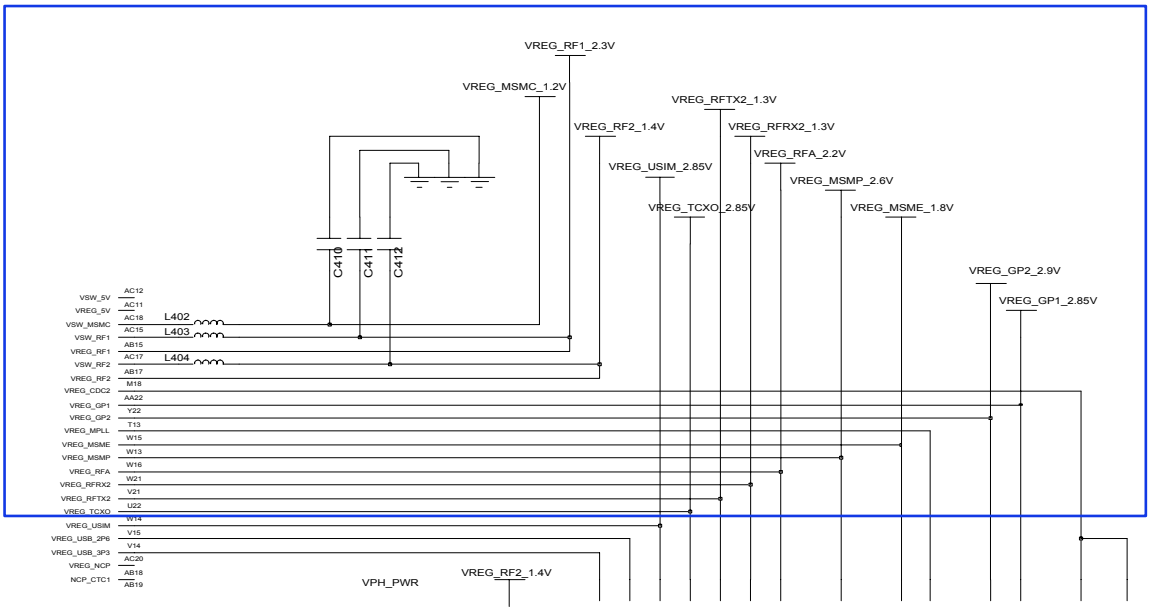




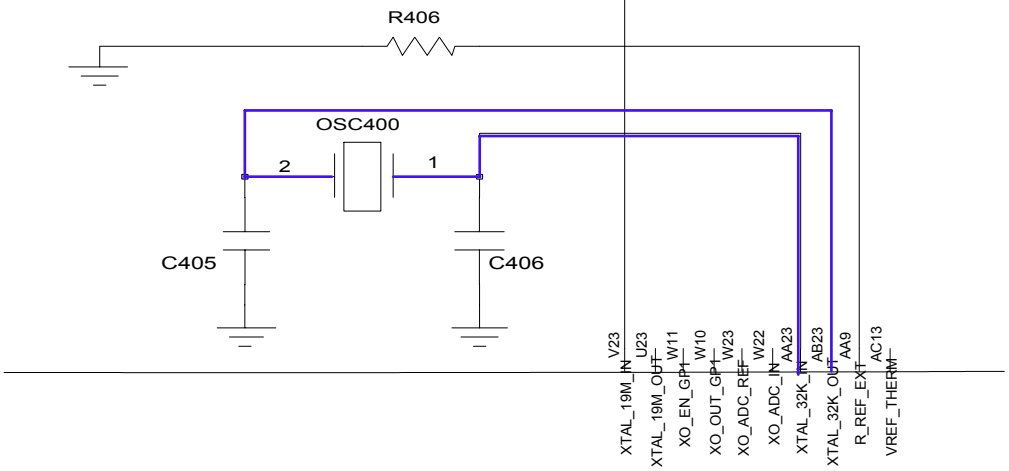




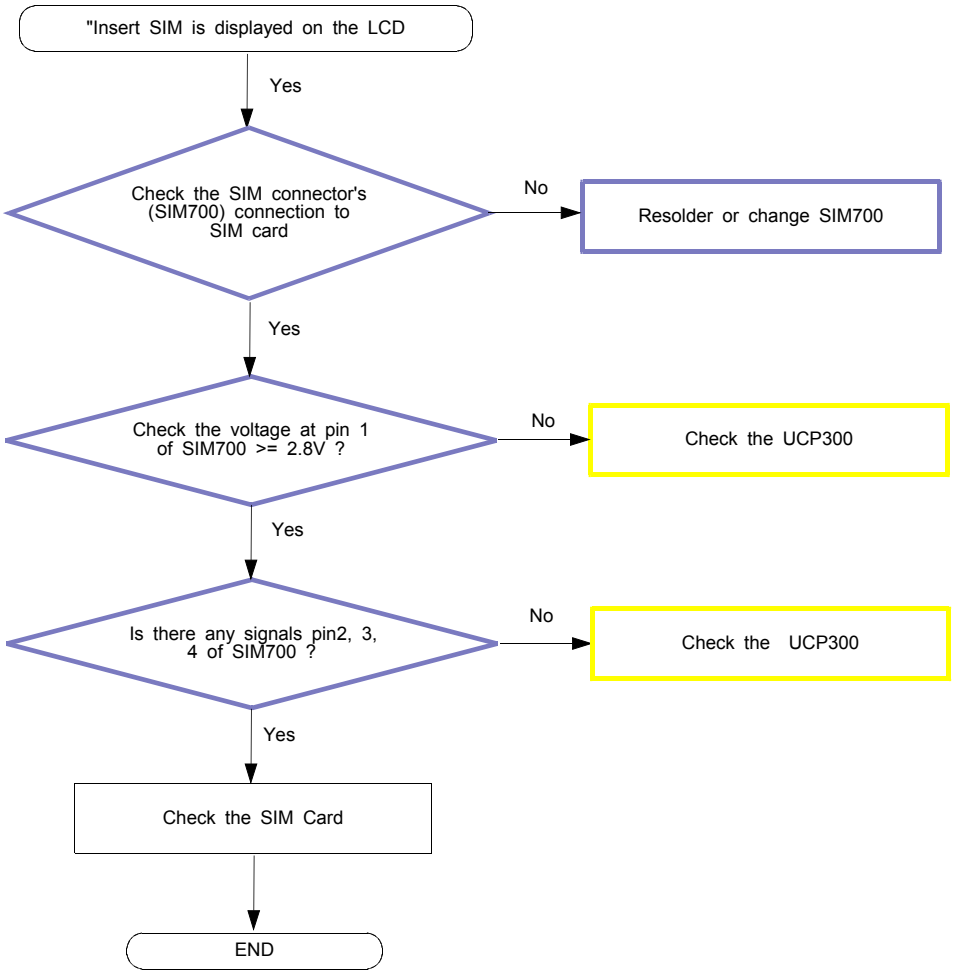
TCXO

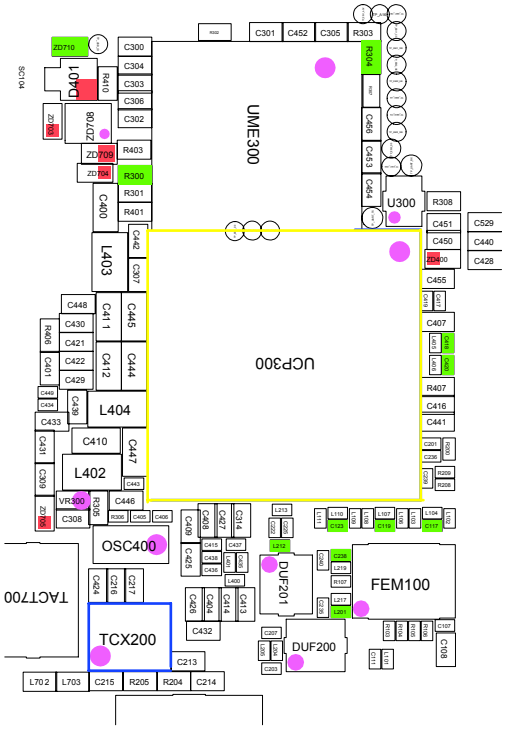


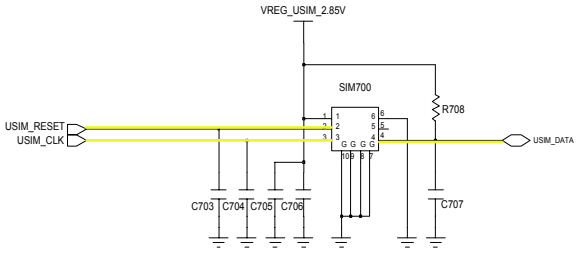
UCP300



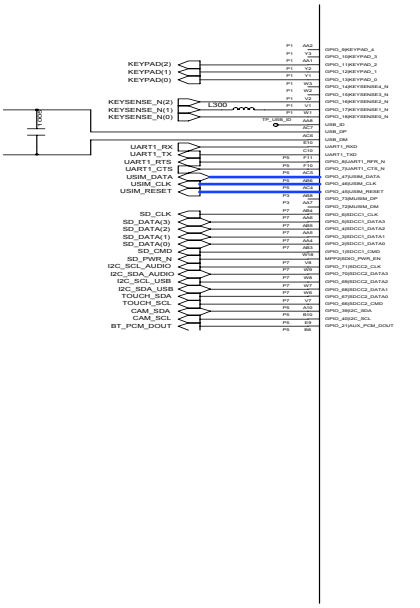
9-1-2. Sim Part





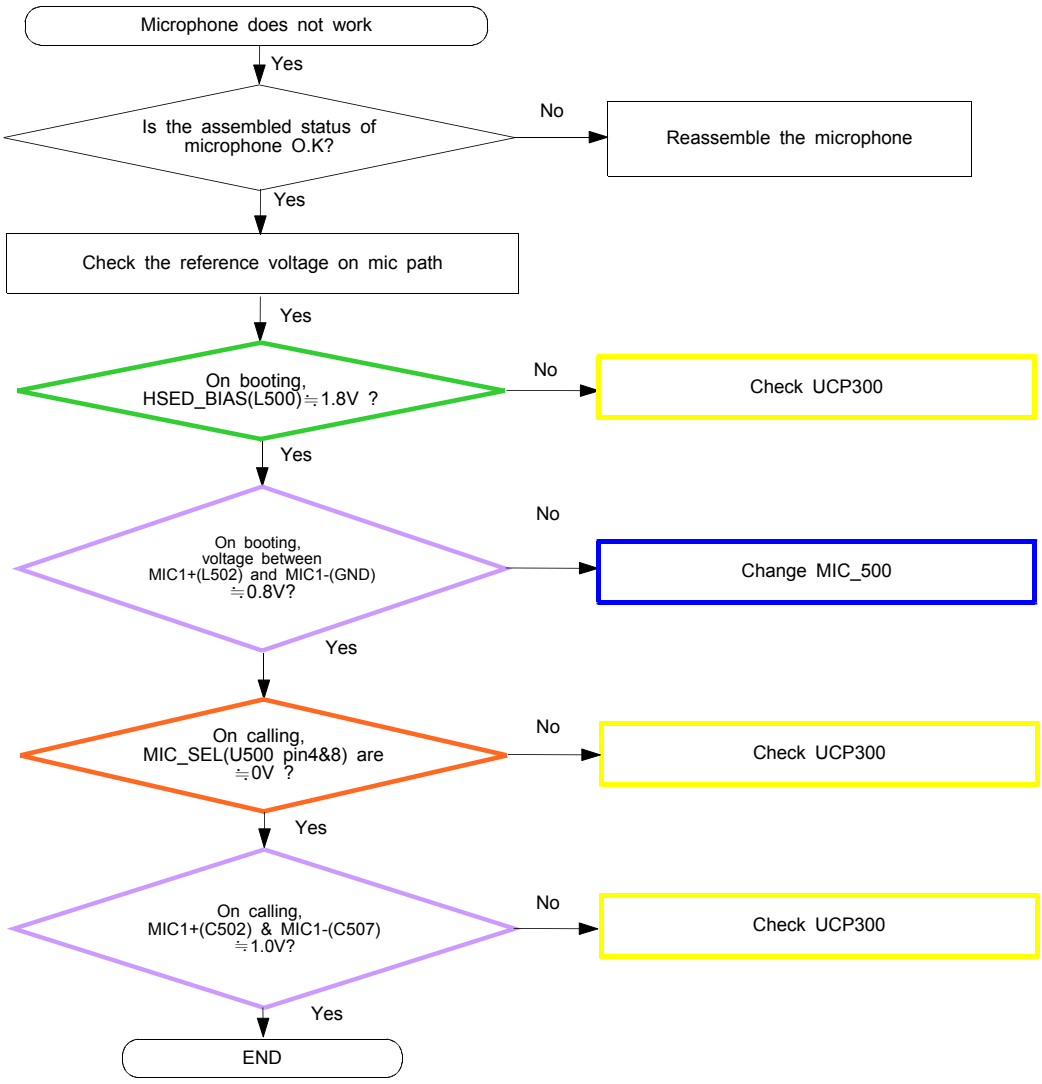


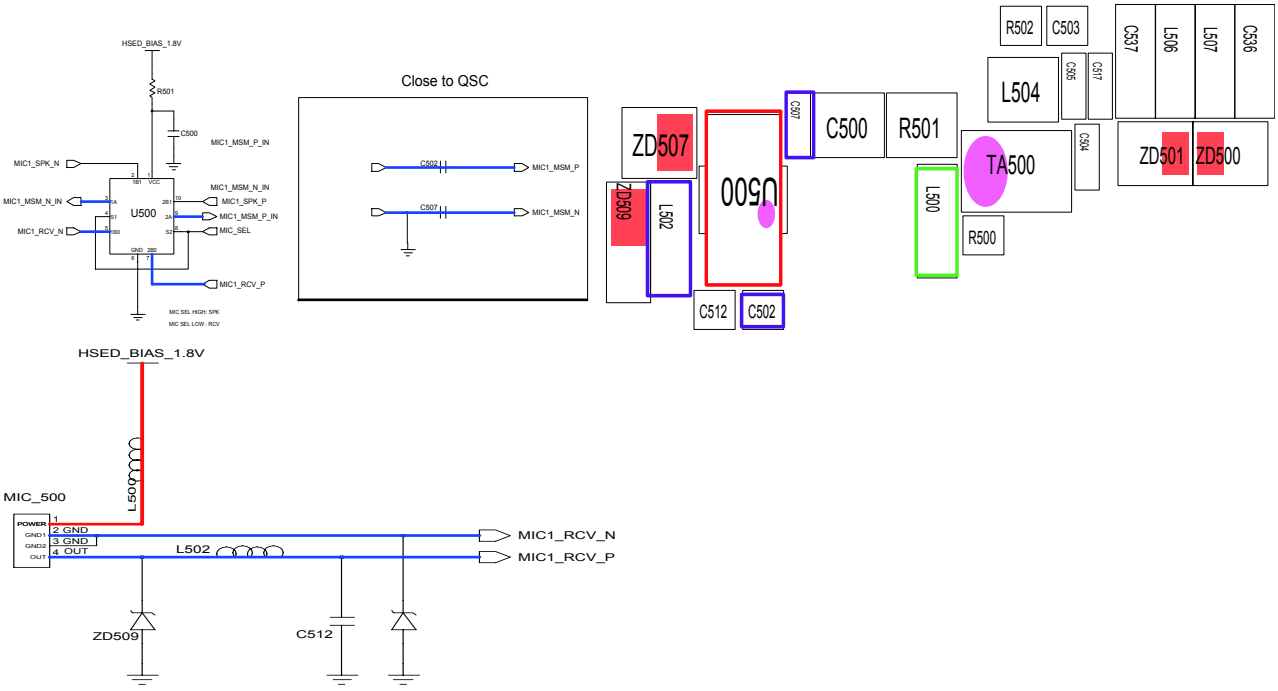
USIM CONNECTOR



UCP300

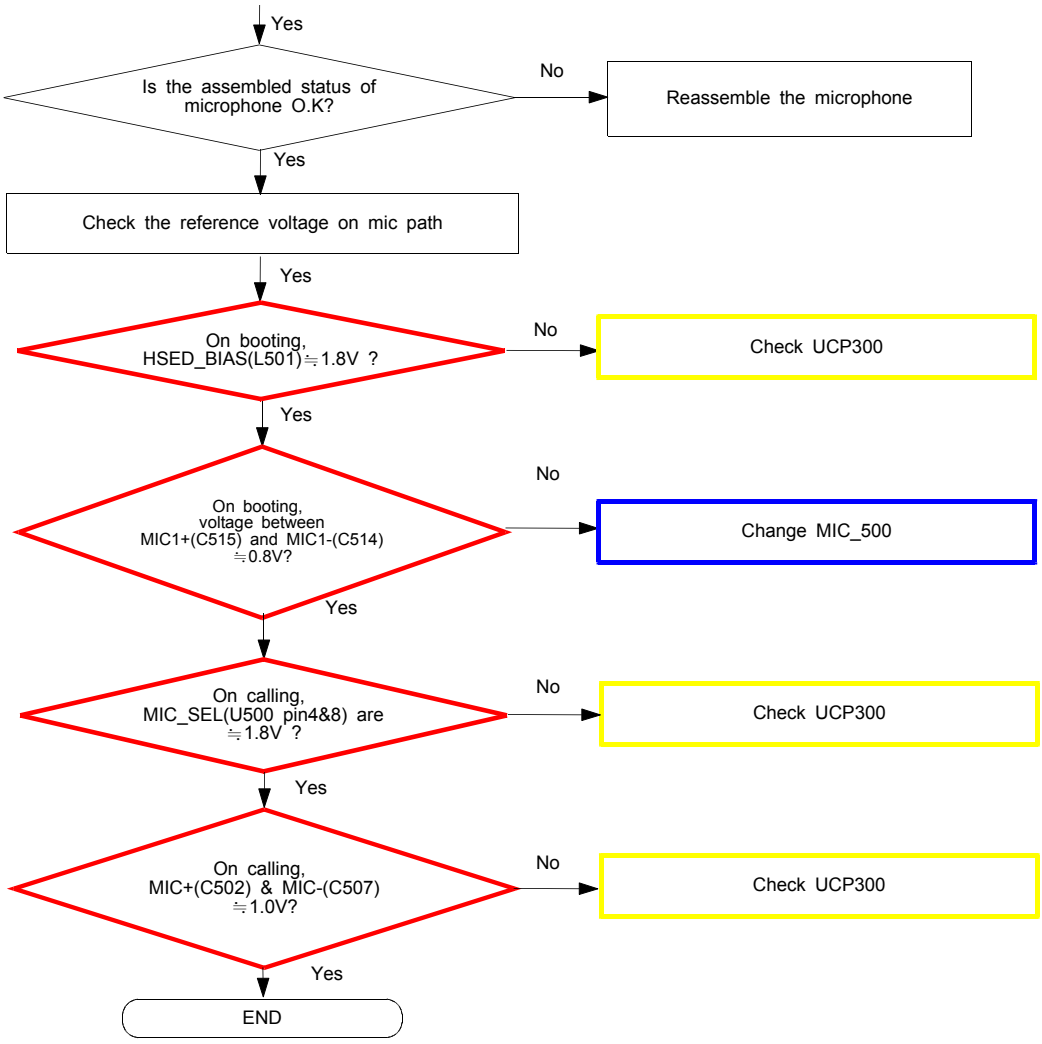
9-1-3. Microphone Part (MAIN)

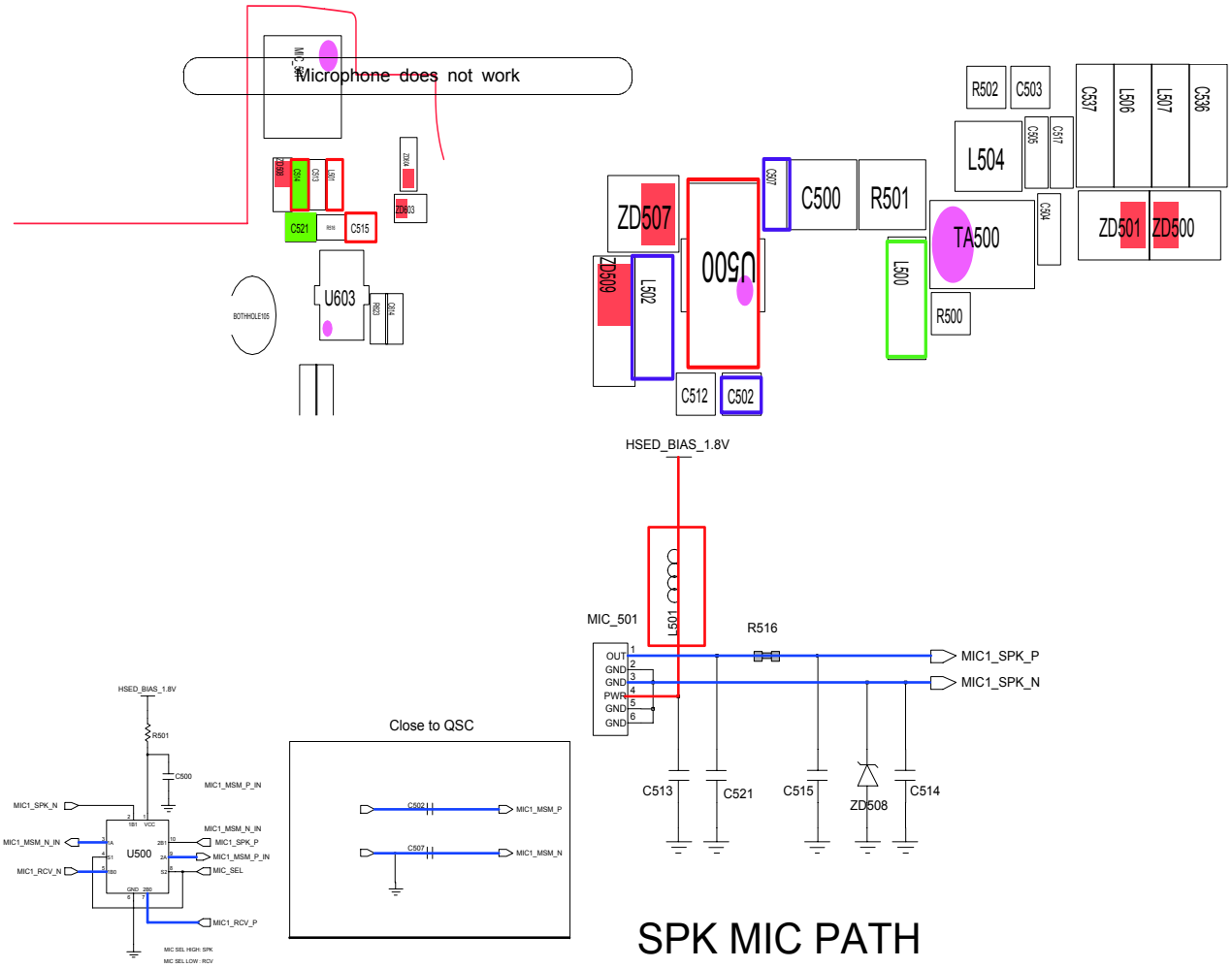




MAIN MIC PATH

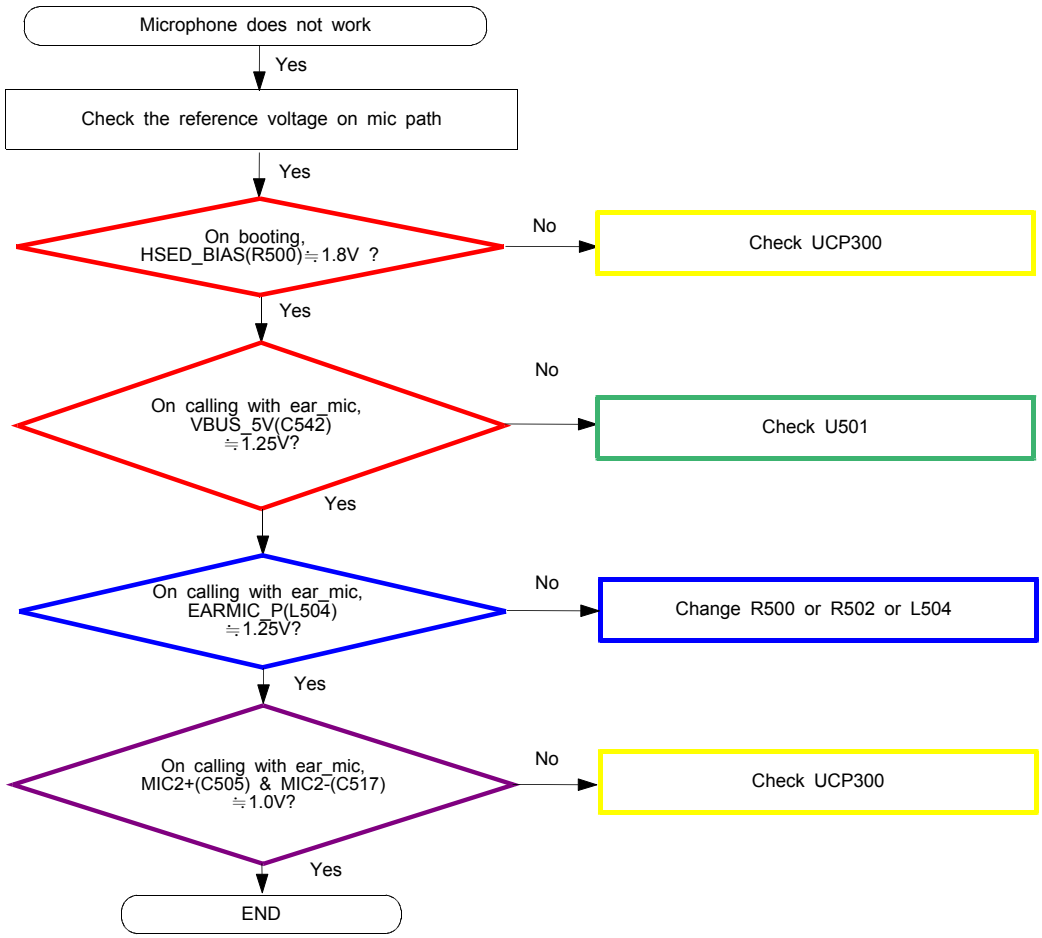
9-1-4. Microphone Part (SPK phone)

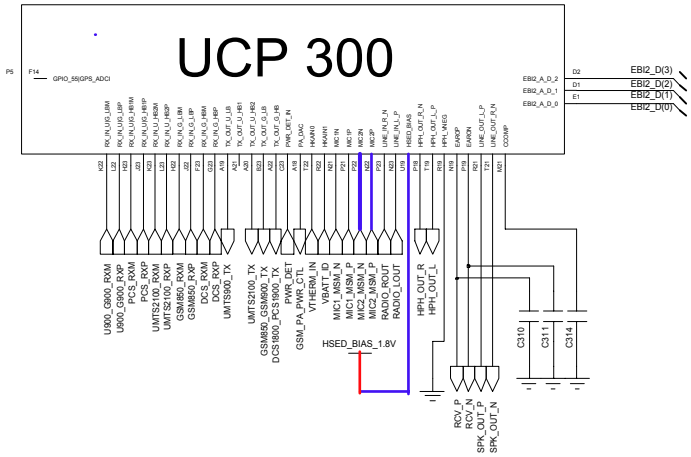


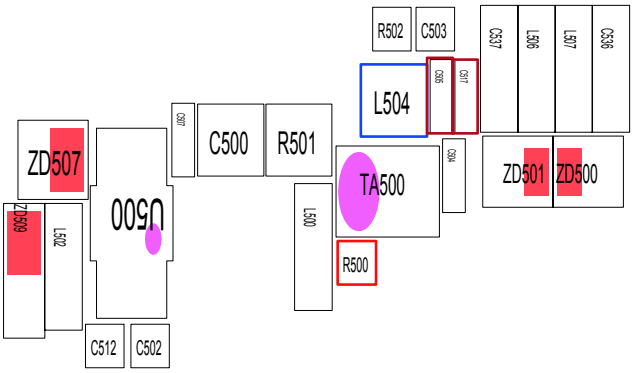


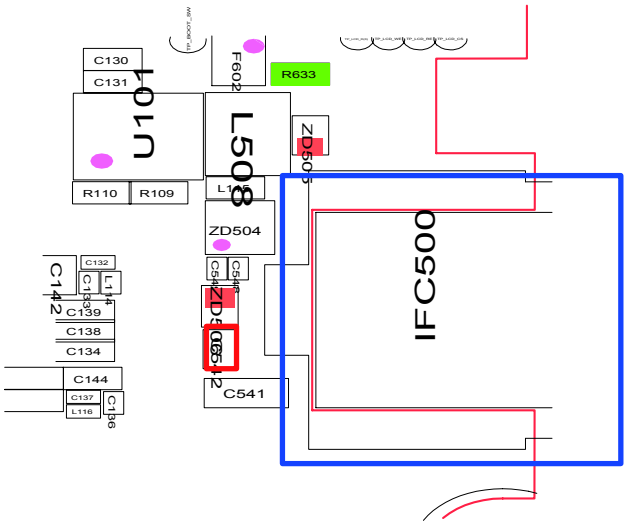
SPK MIC PATH

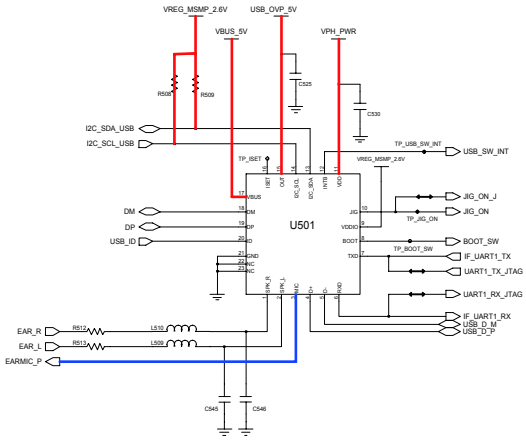
9-1-5. Microphone Part (EAR MIC)



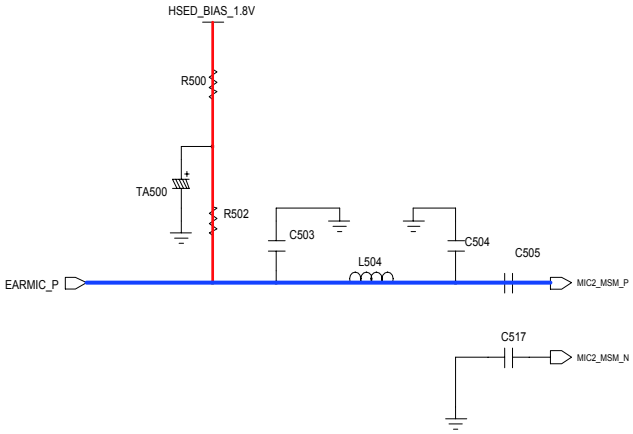




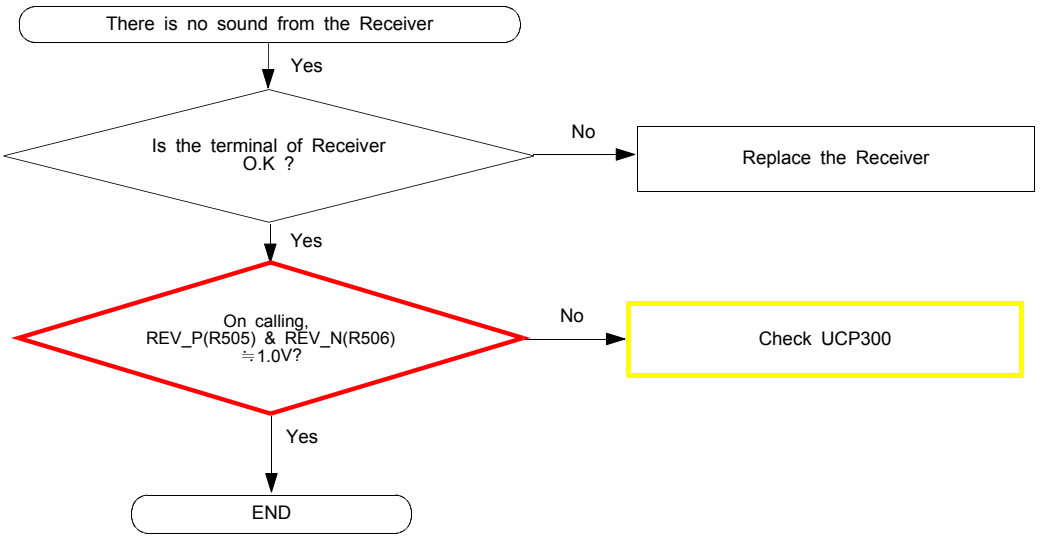


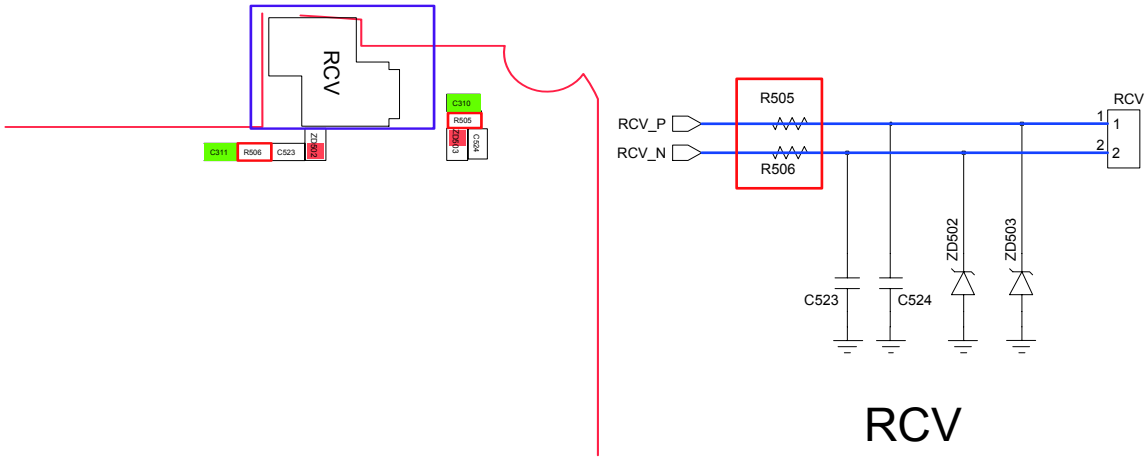


Micro USB Switch

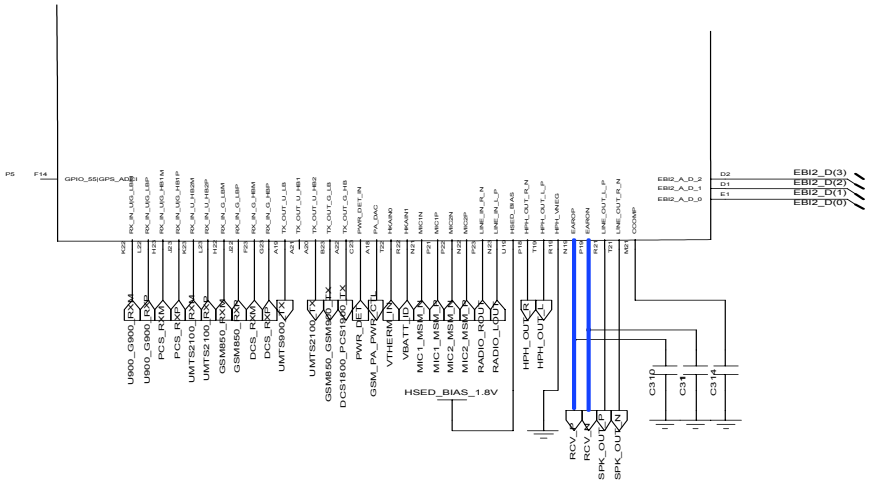


9-1-6. Receiver Part

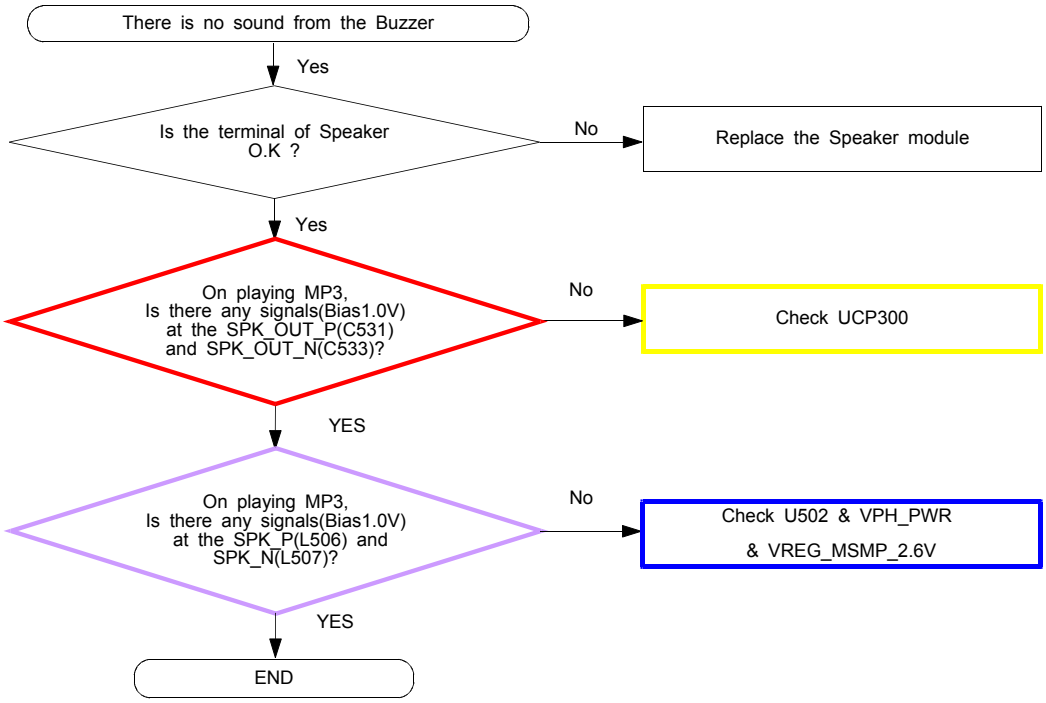


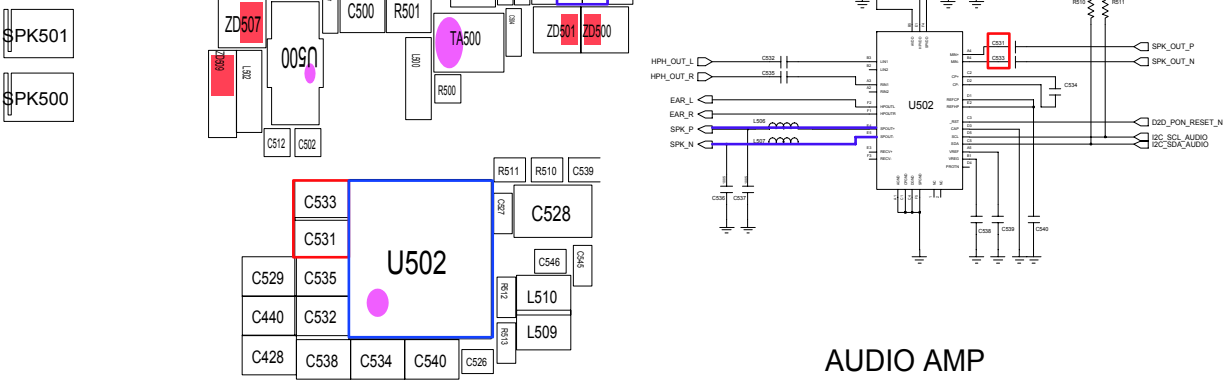


RCV

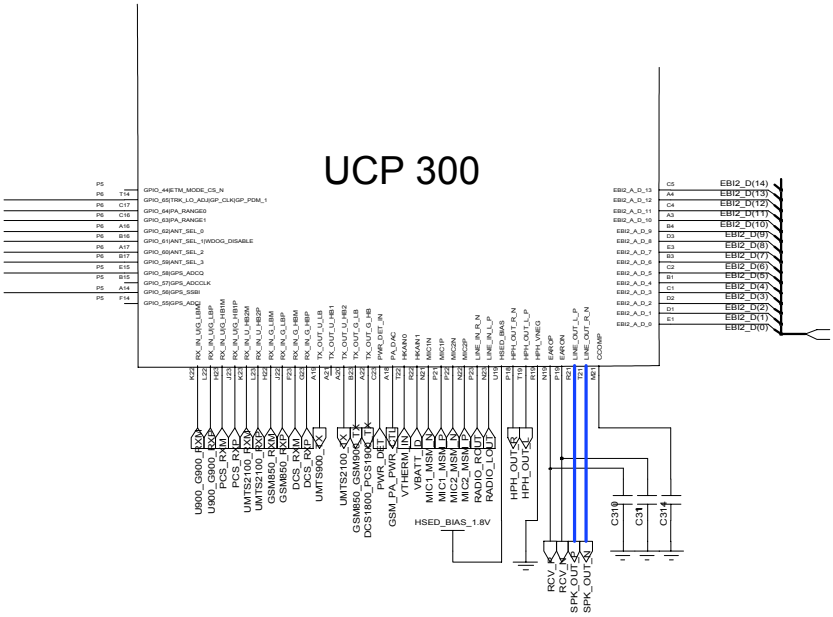


9-1-7. SPK Part

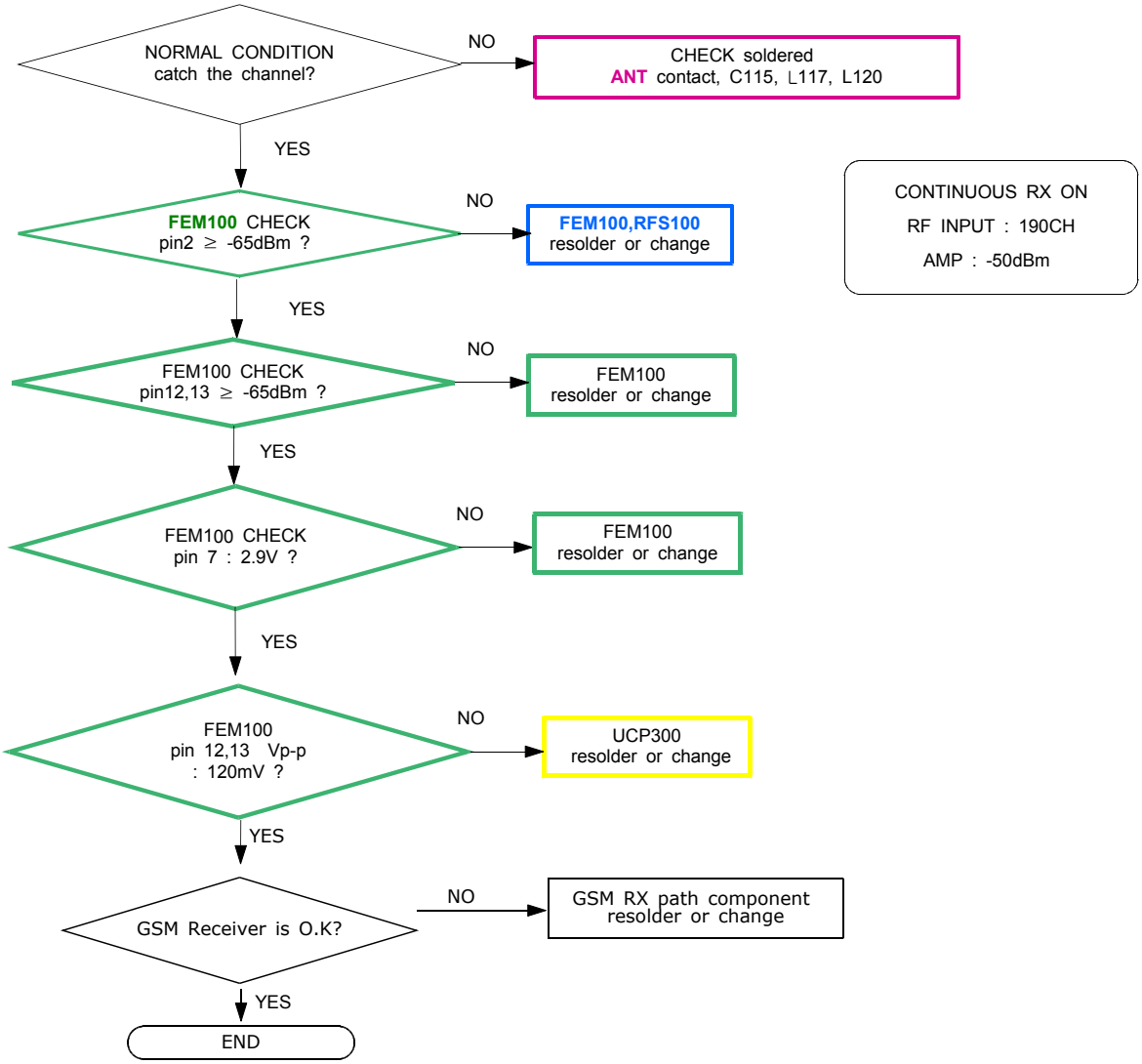


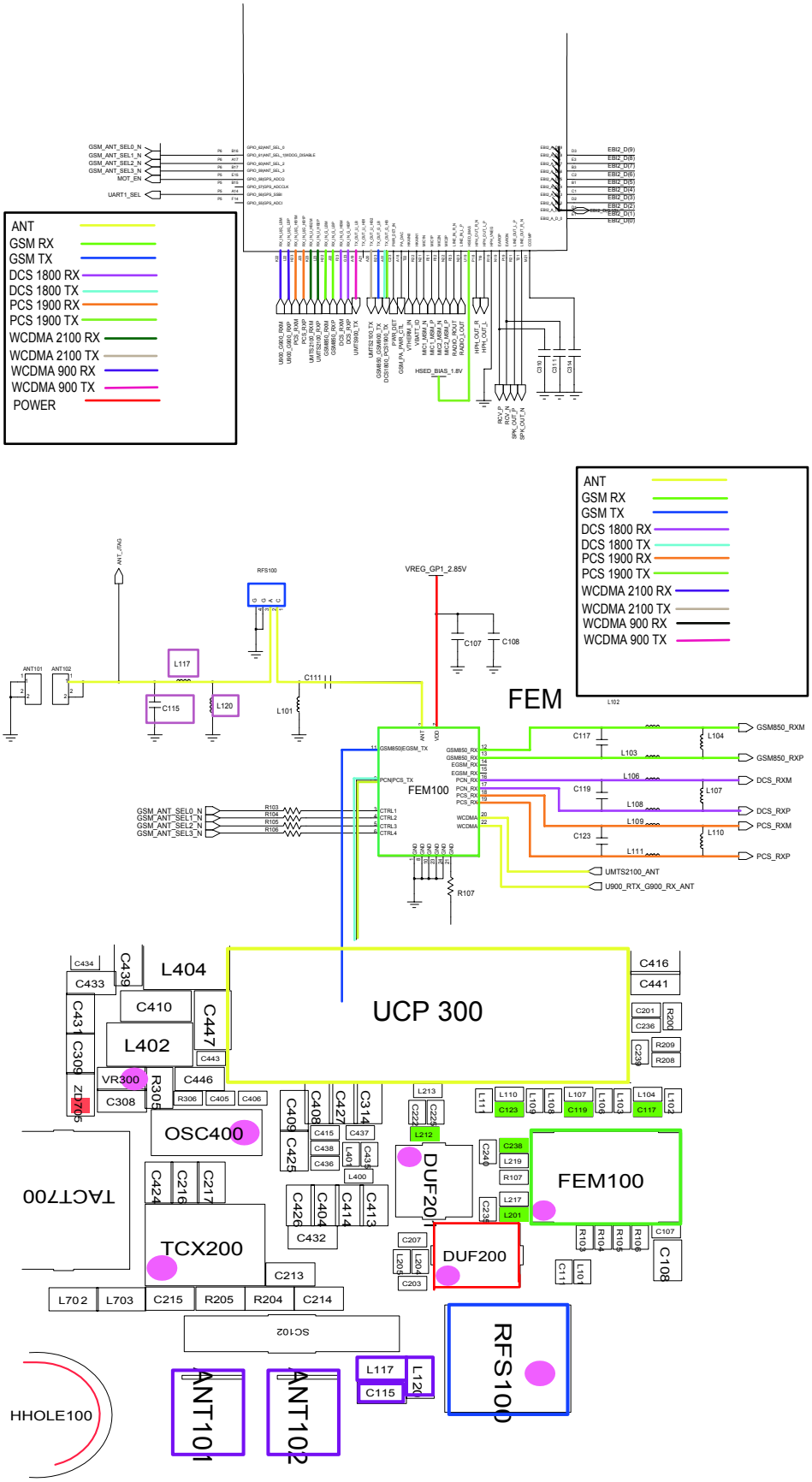


AUDIO AMP

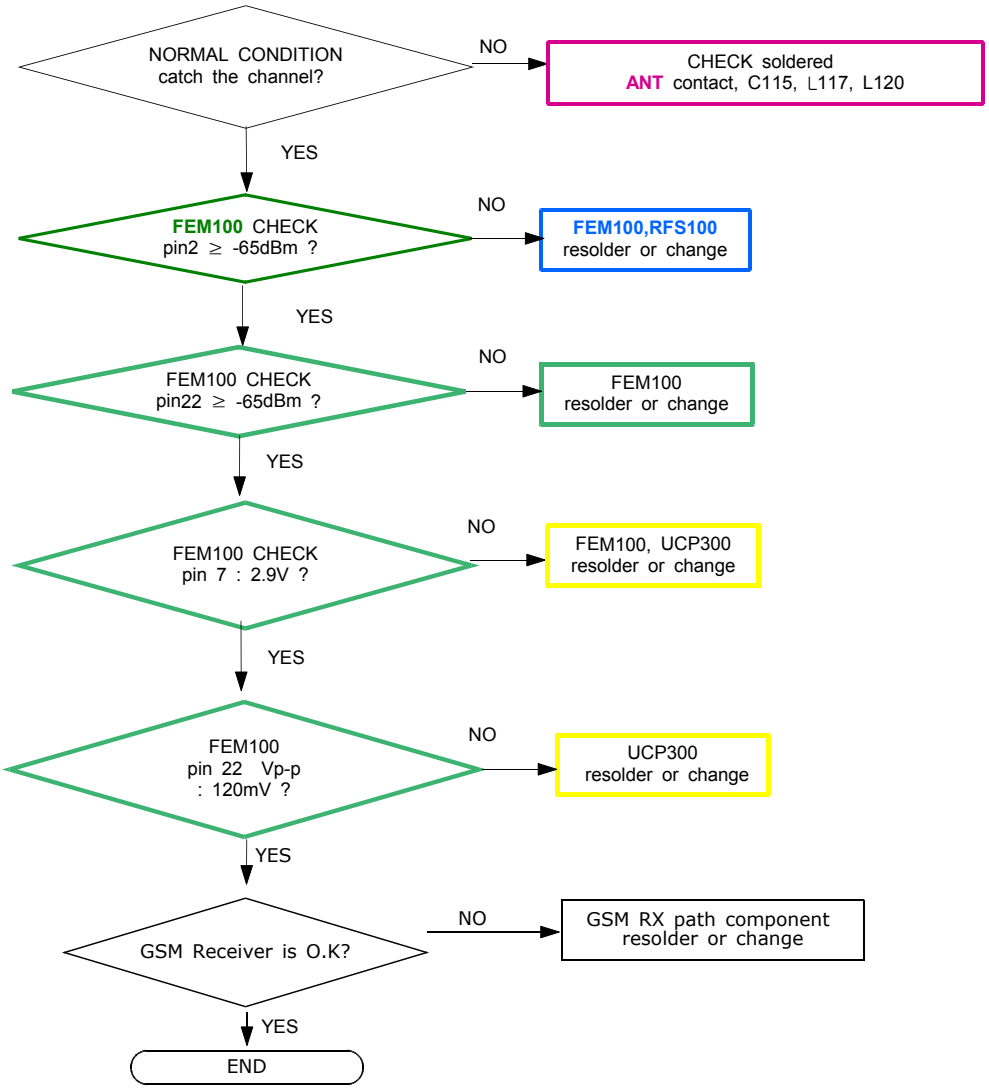


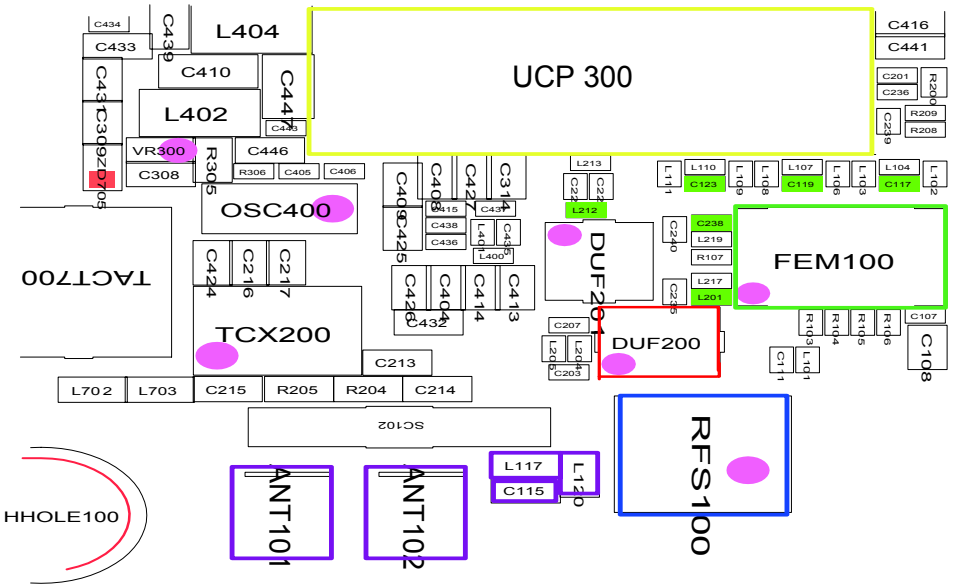
9-2.RF
9-2-1. GSM850 RX

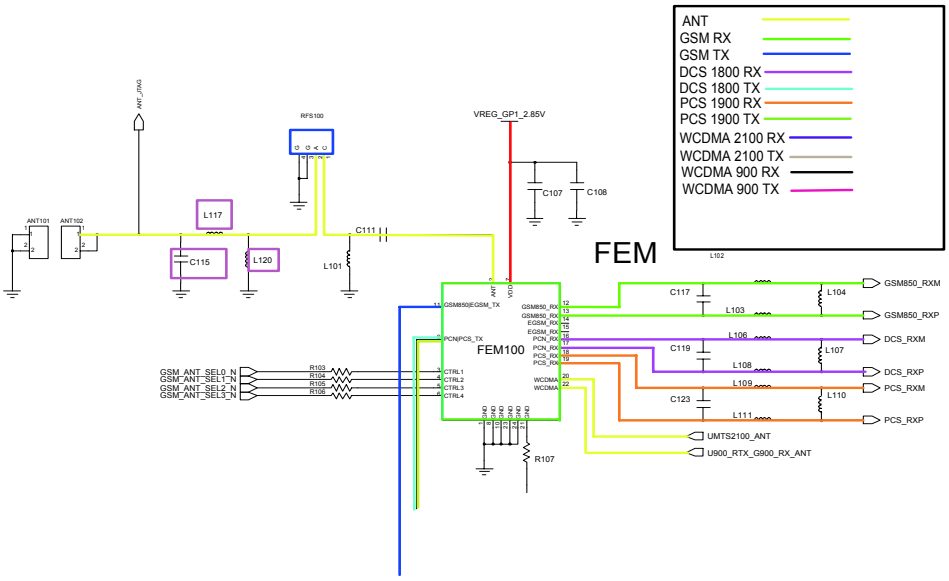


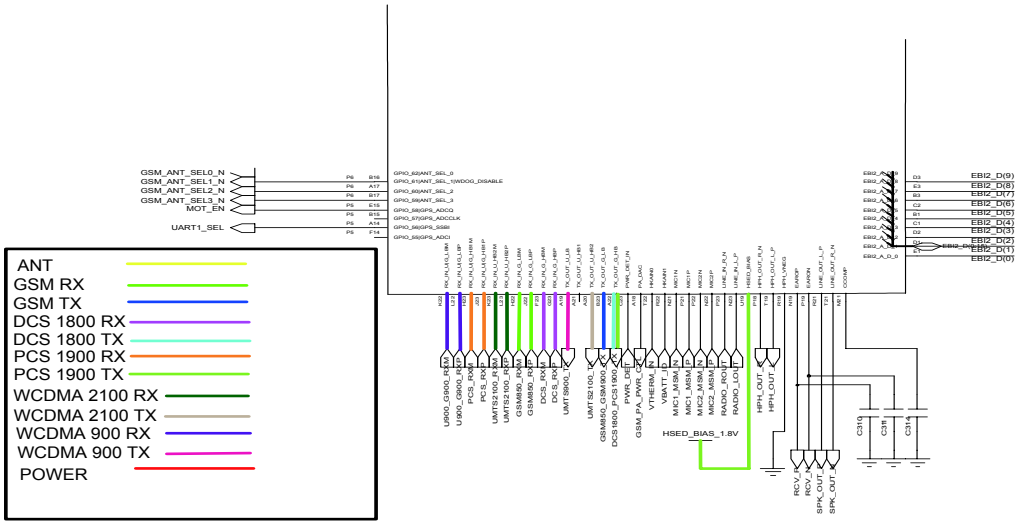


9-2-2. EGSM RX

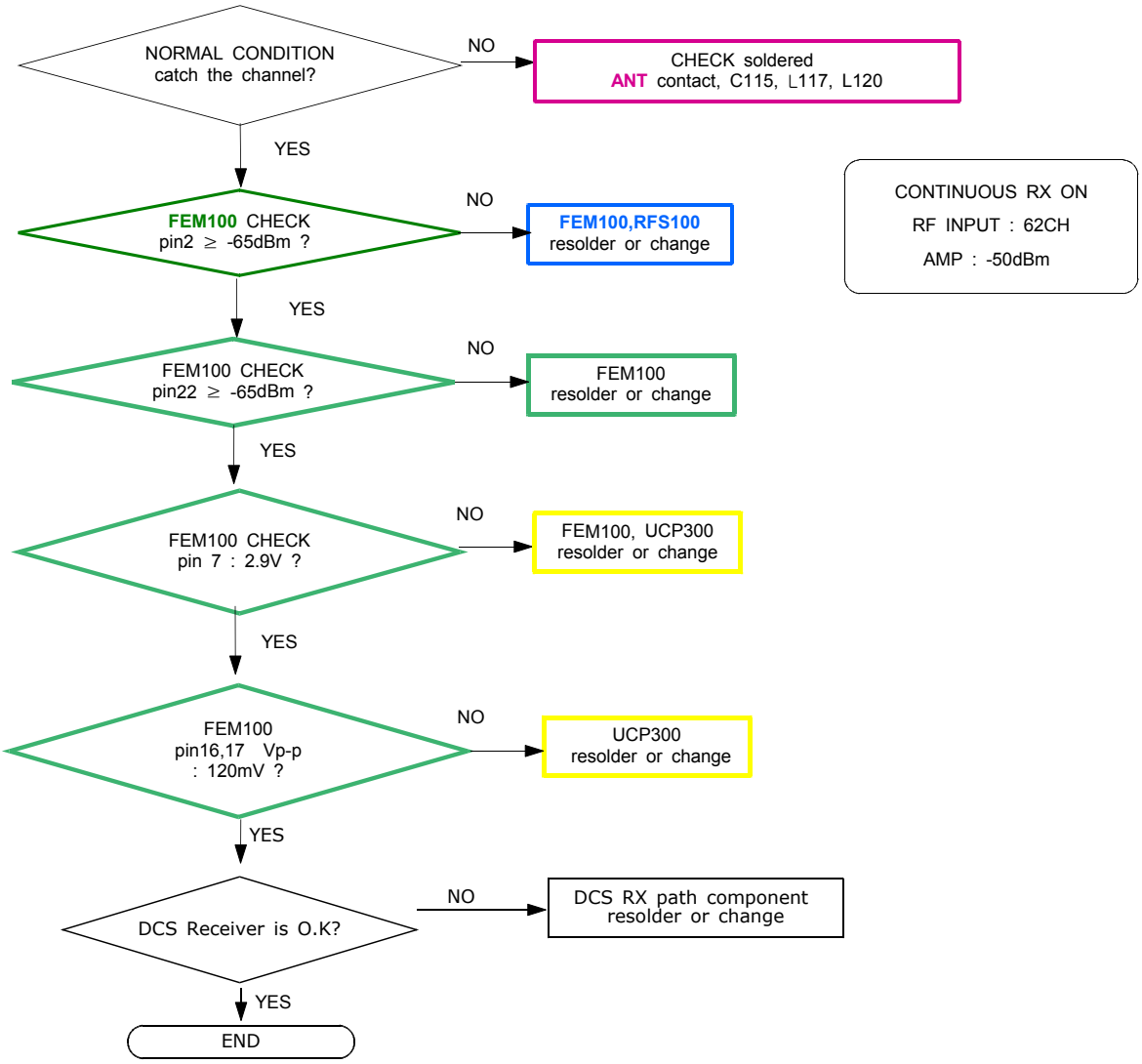


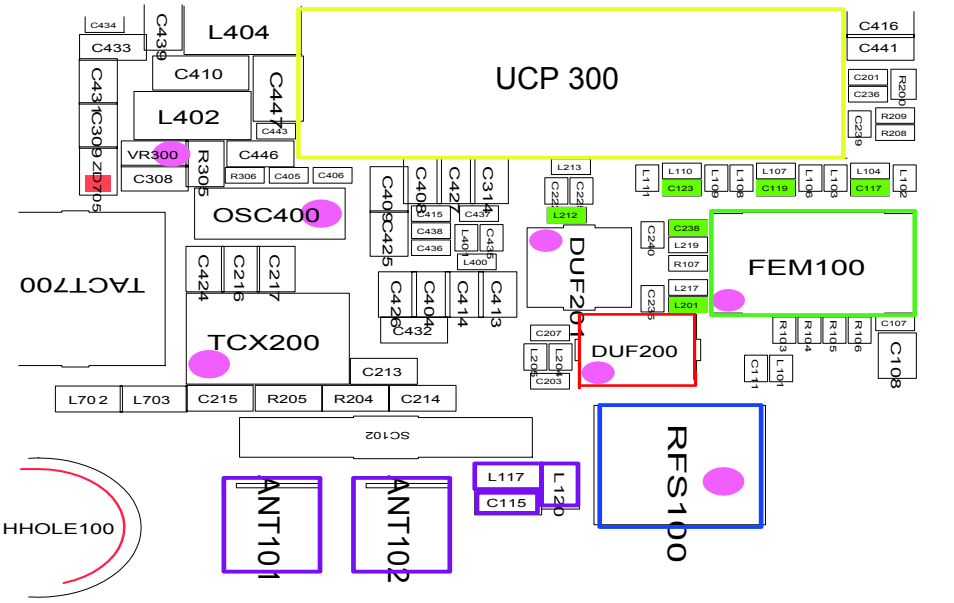


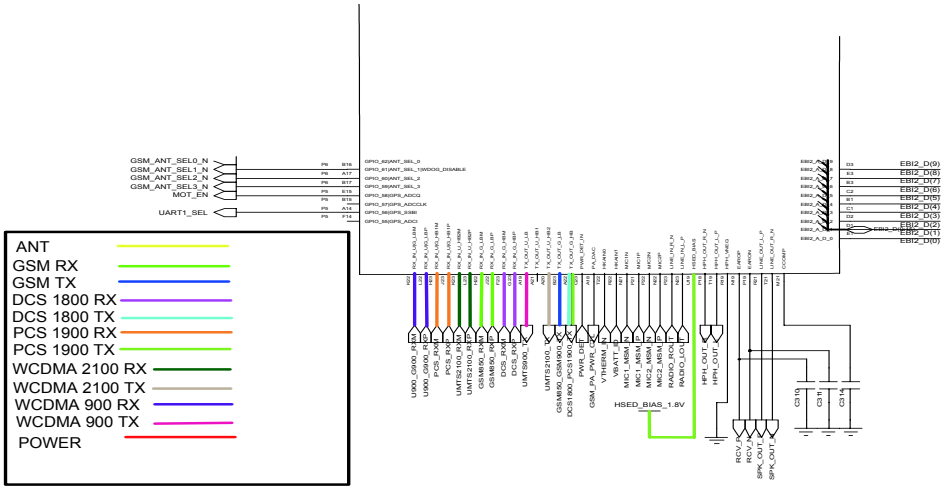


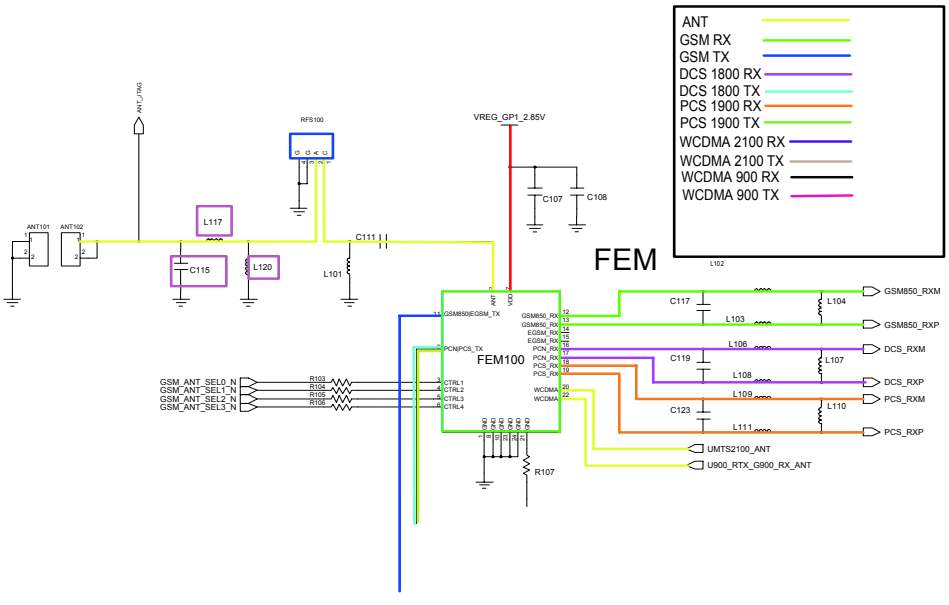


9-2-3. DCS RX

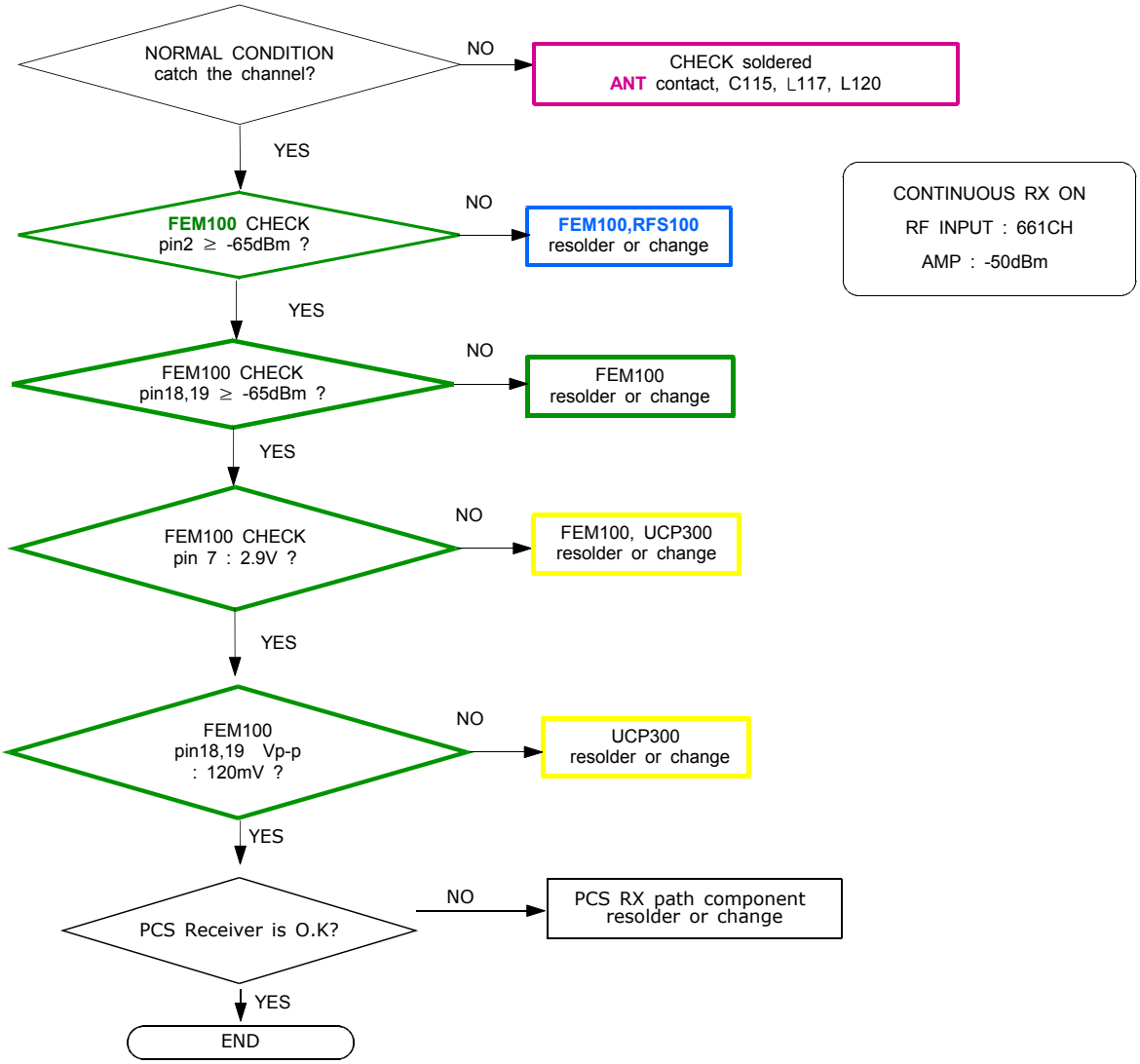


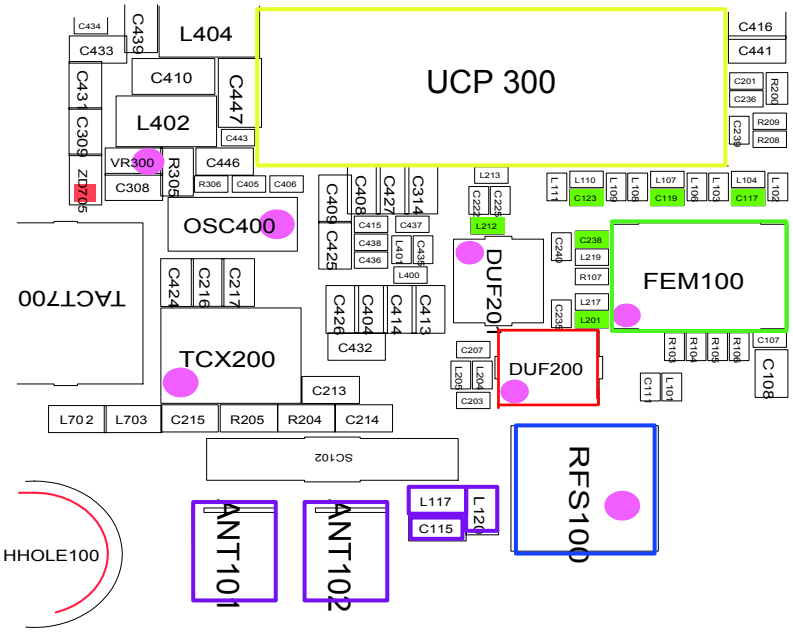


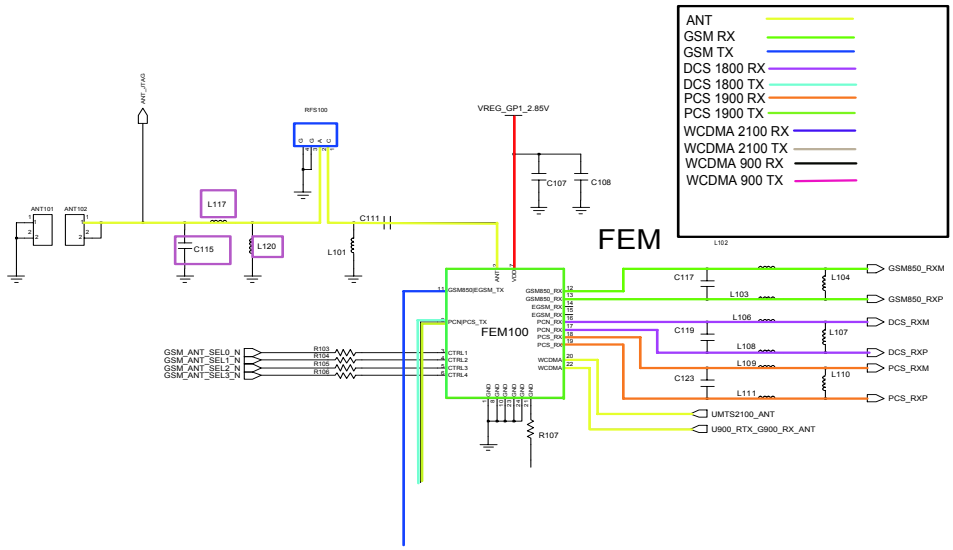


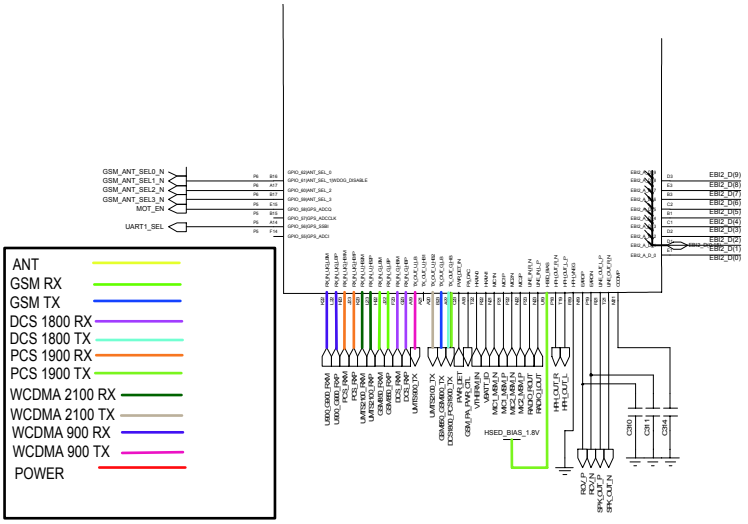


9-2-4. PCS RX

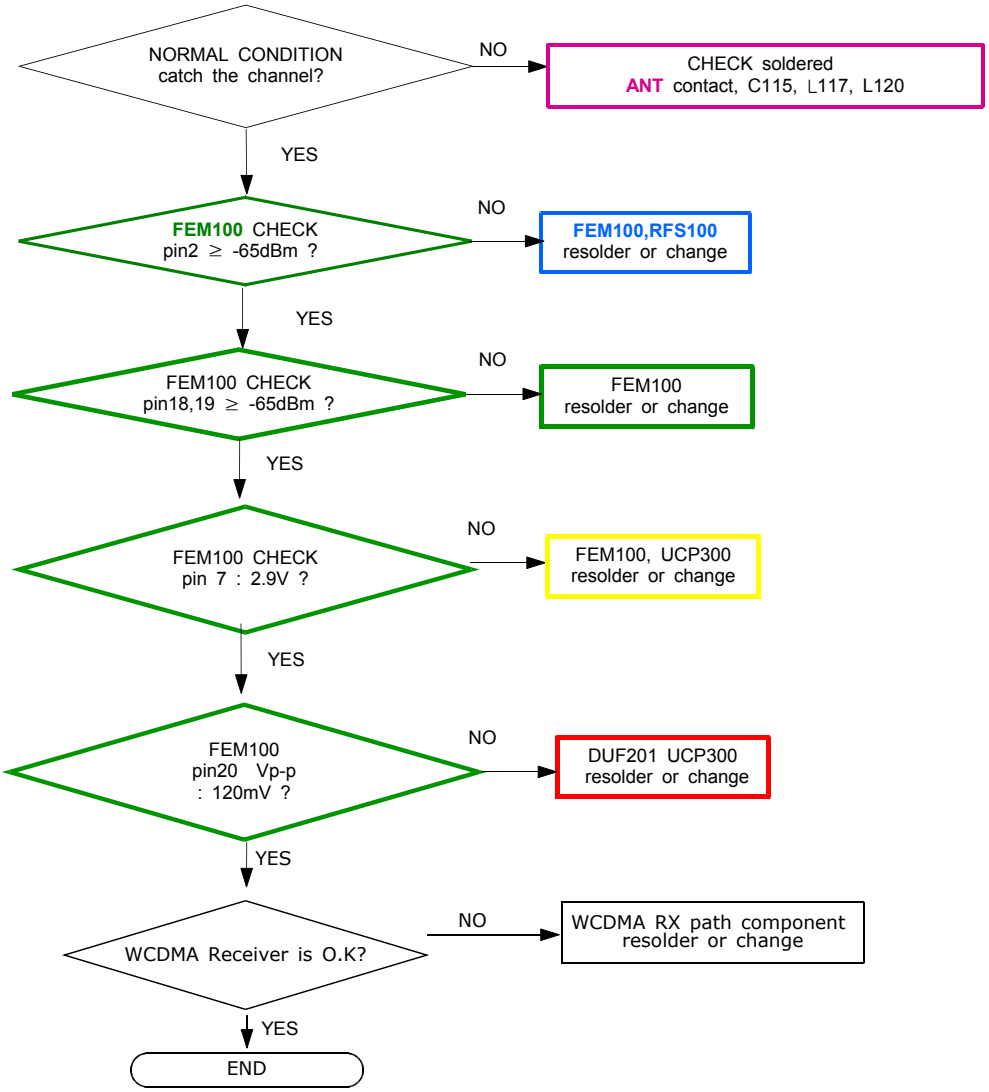


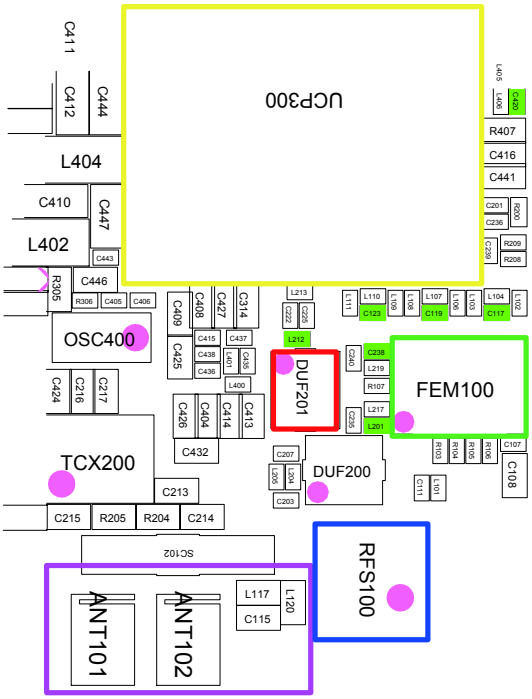


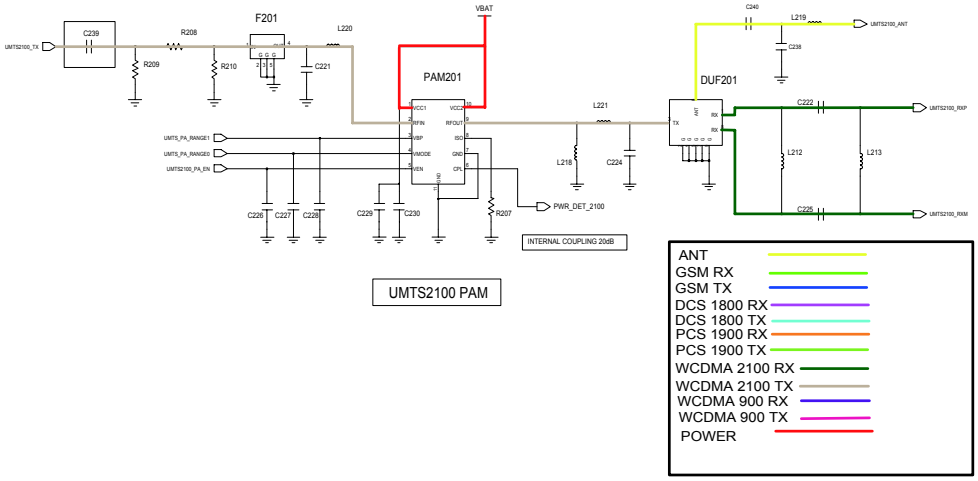




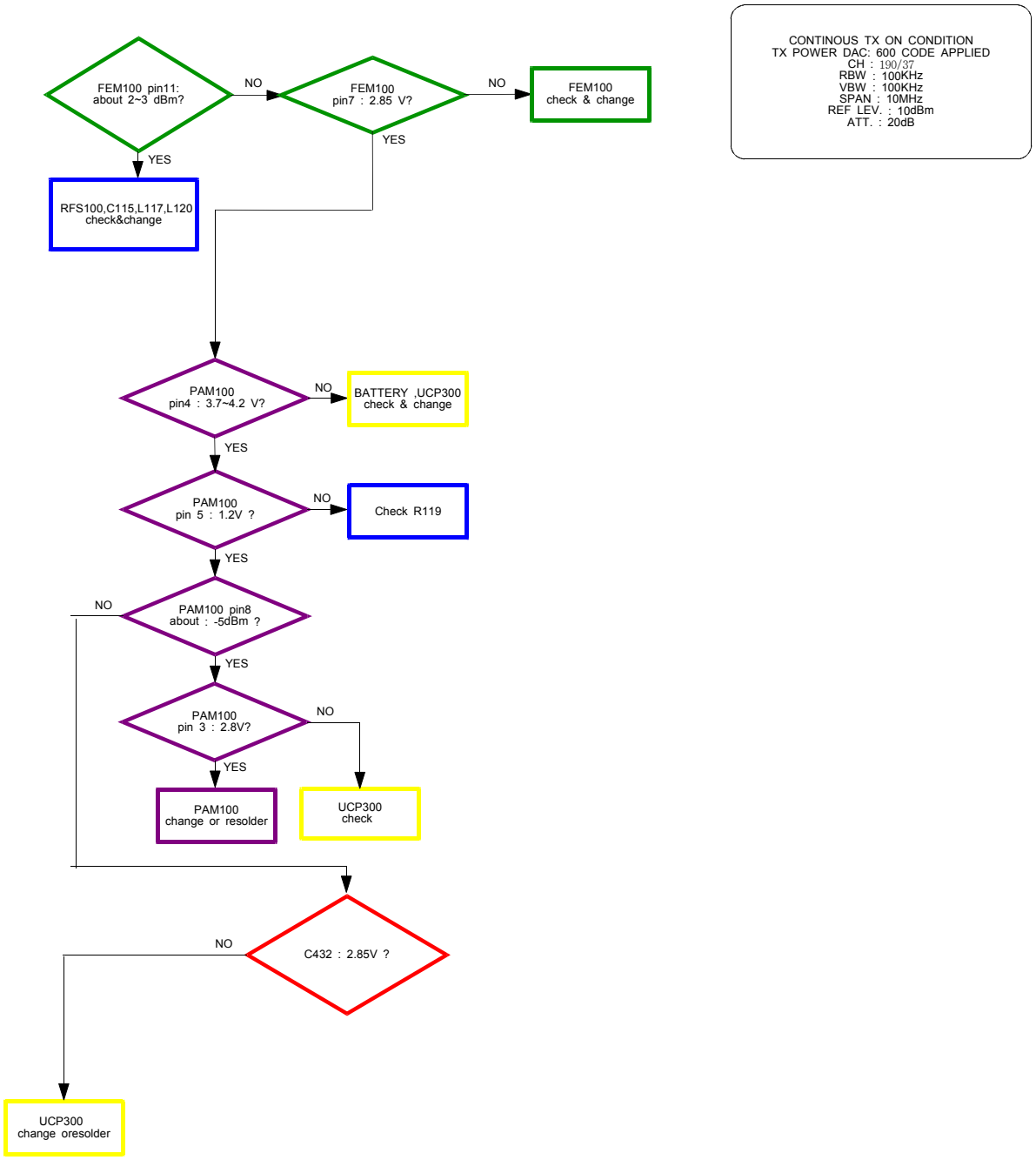
9-2-5. WCDMA Band1 RX

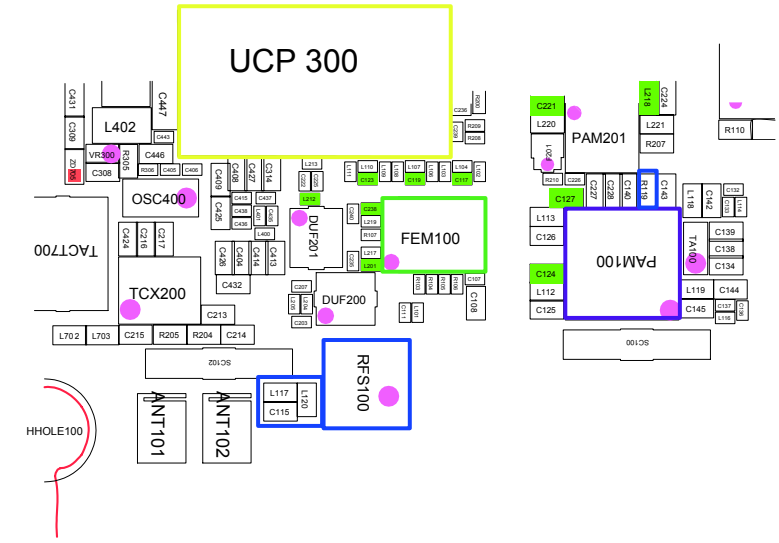


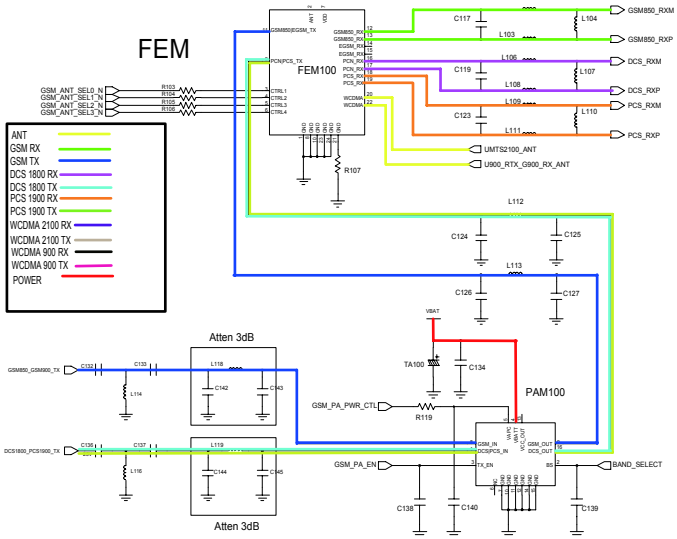




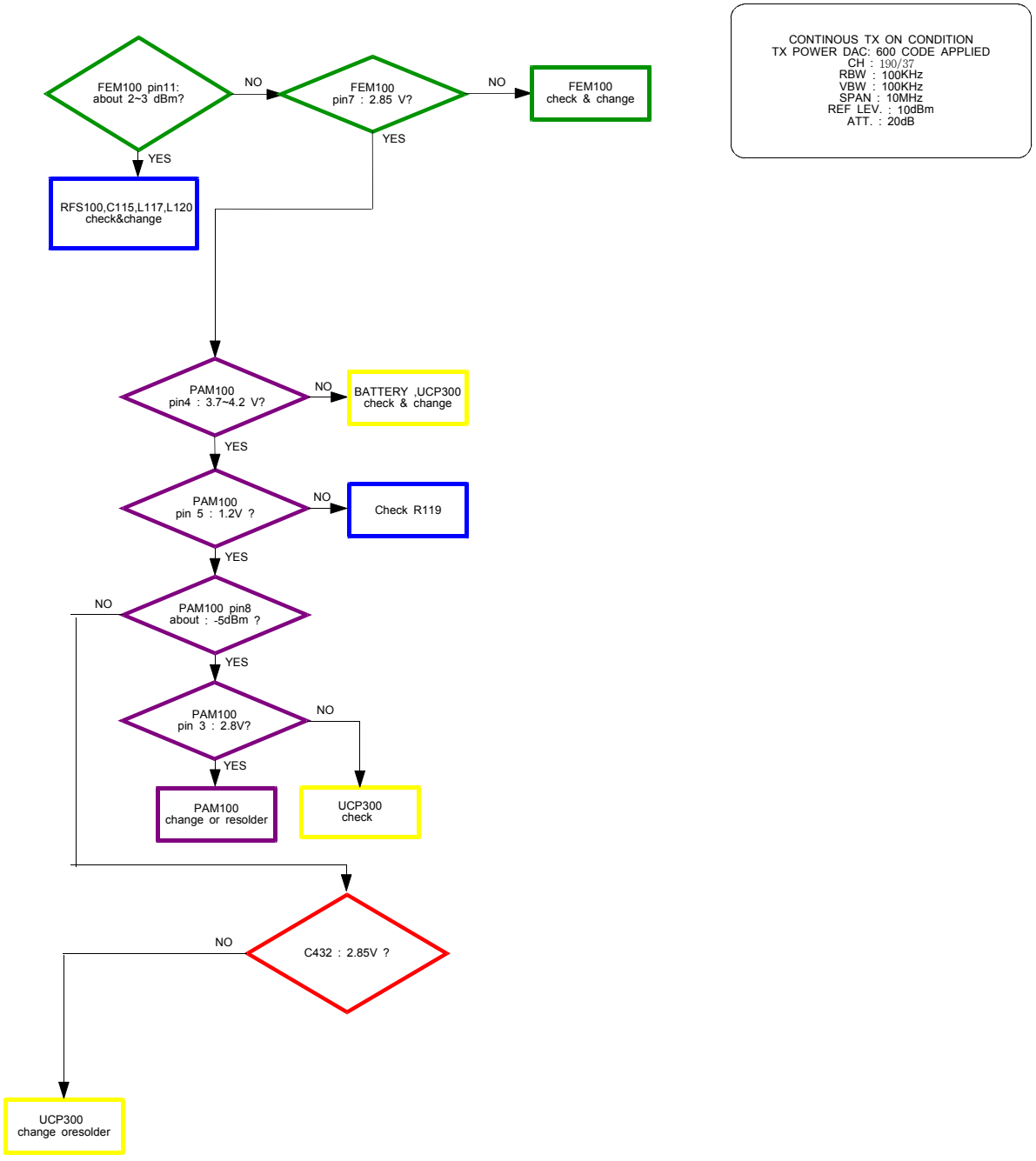
9-2-6. GSM850/ GSM900 TX

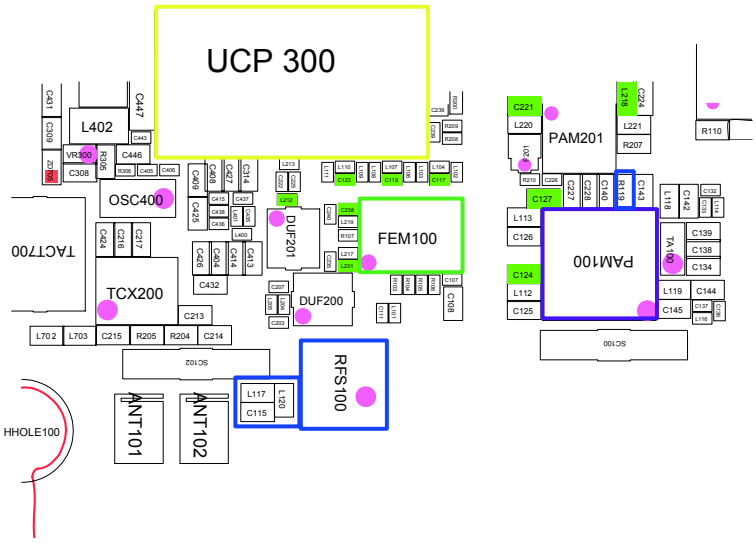


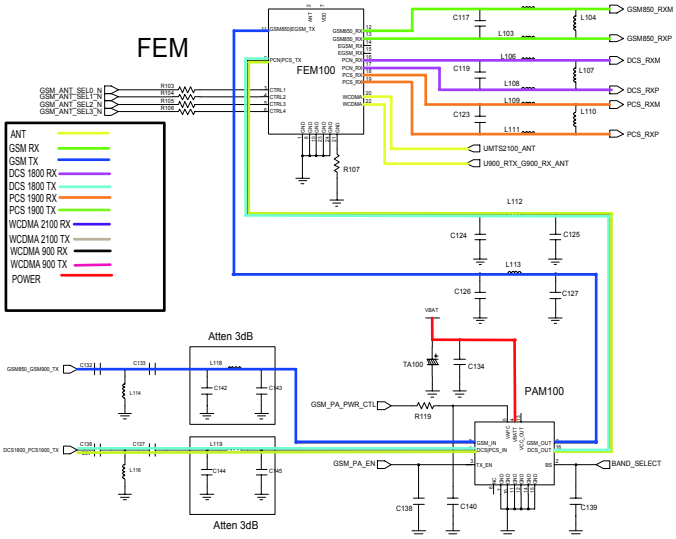




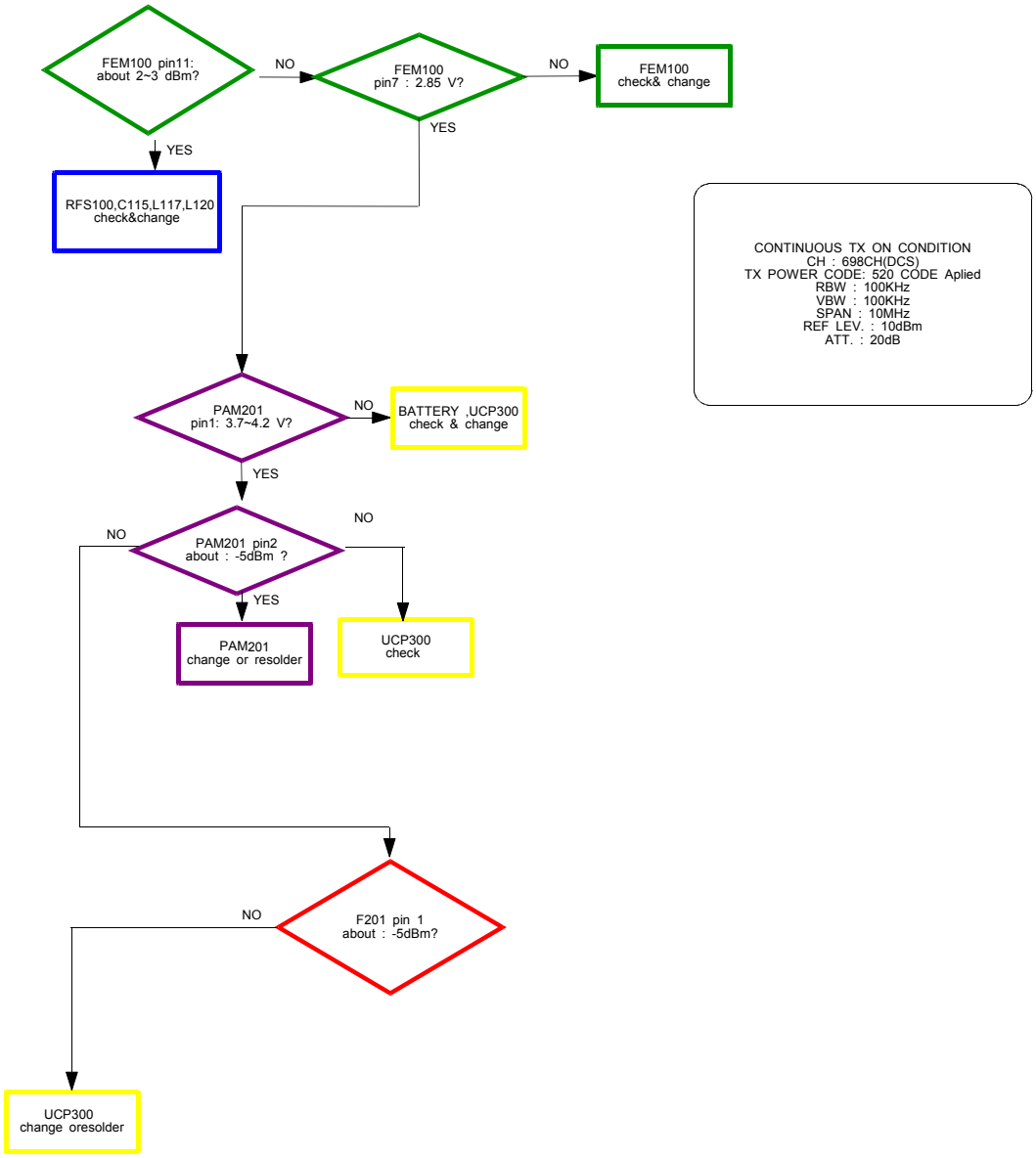
9-2-7. DCS/ PCS TX

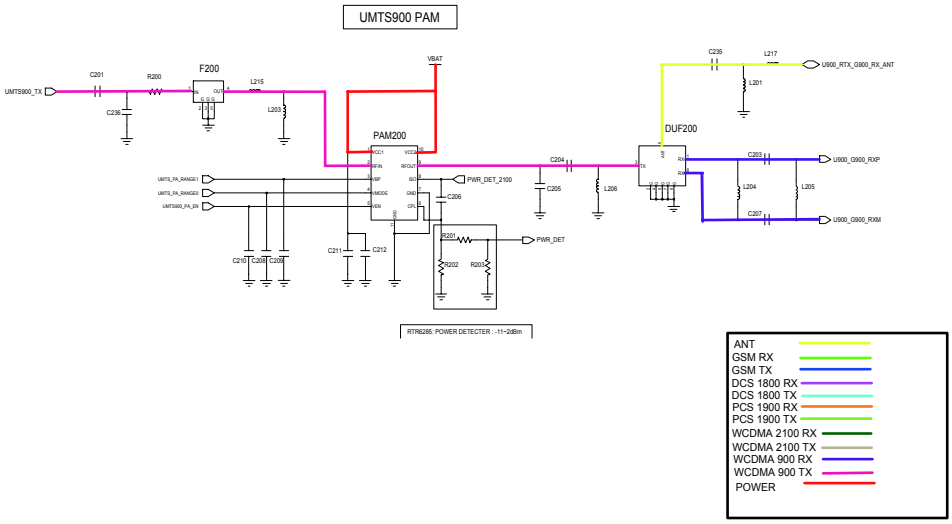


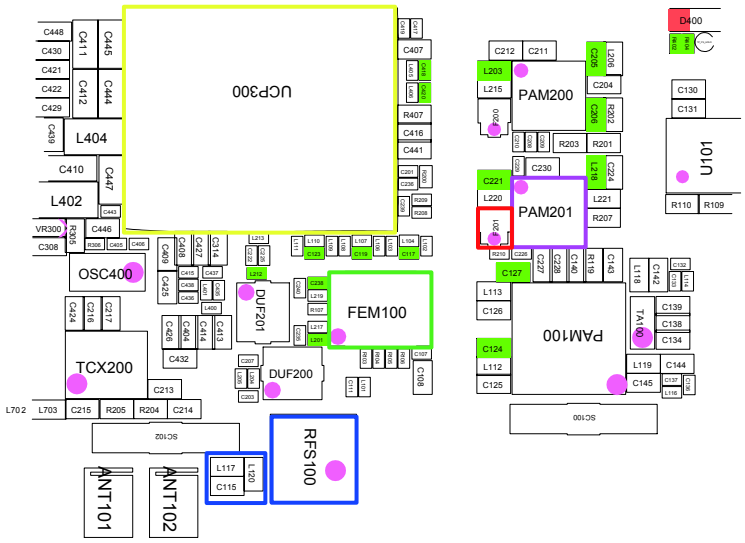




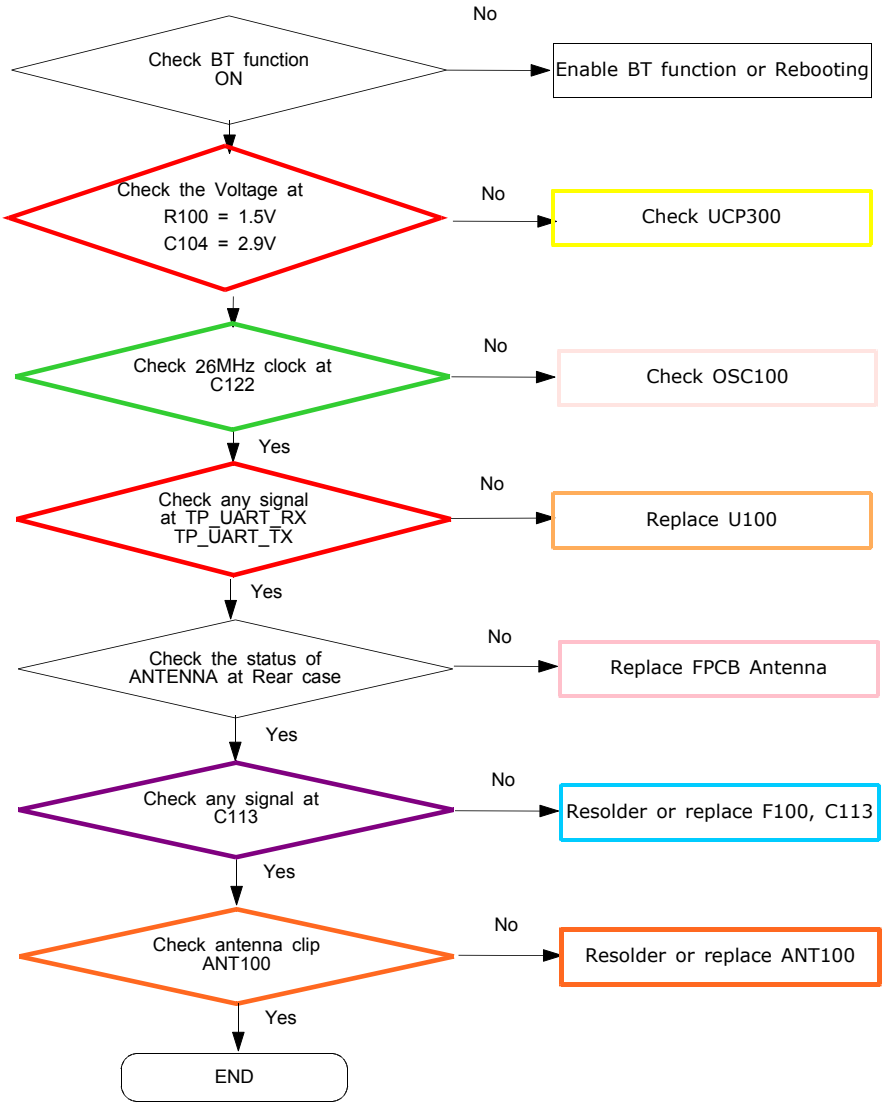
9-2-8. WCDMA Band1 TX



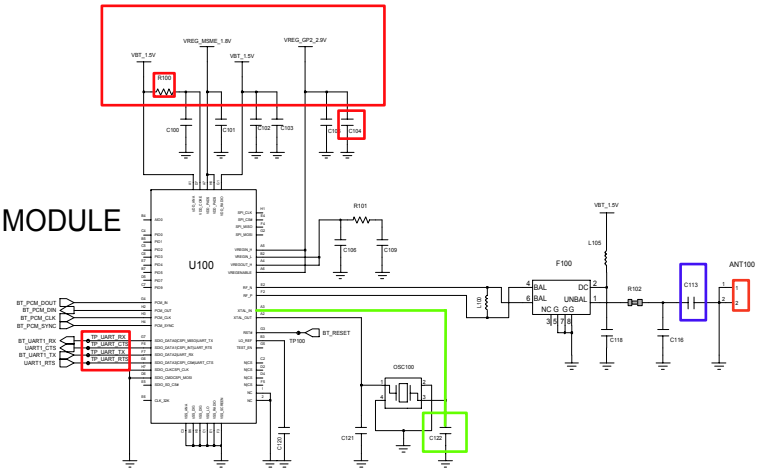


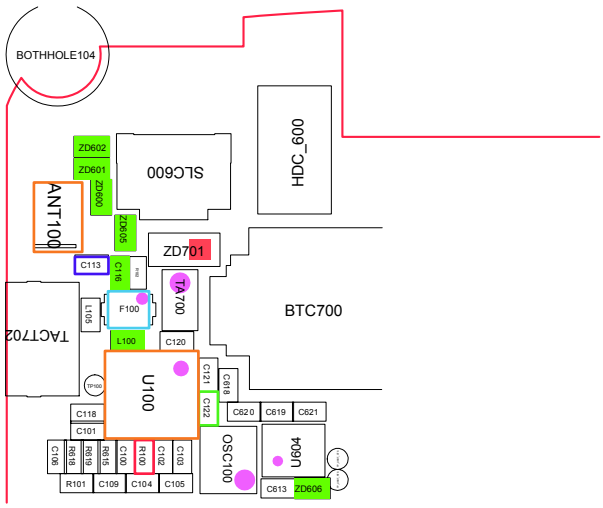


10-3. Bluetooth

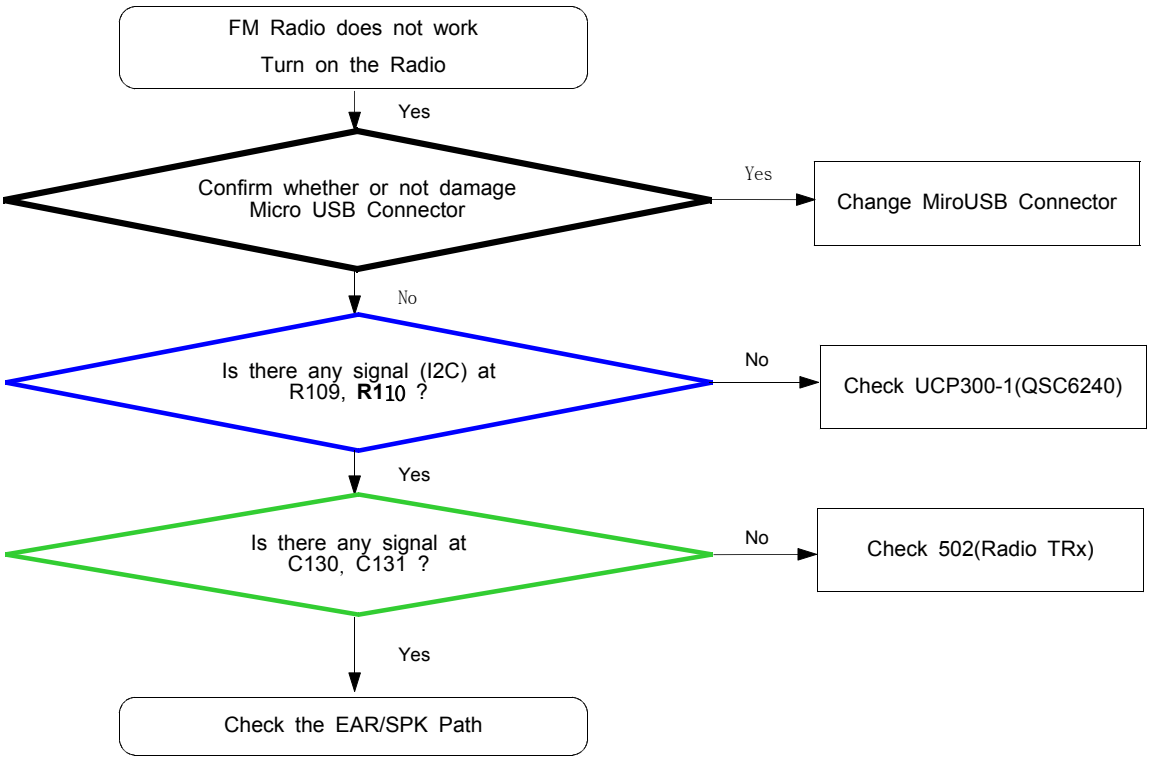


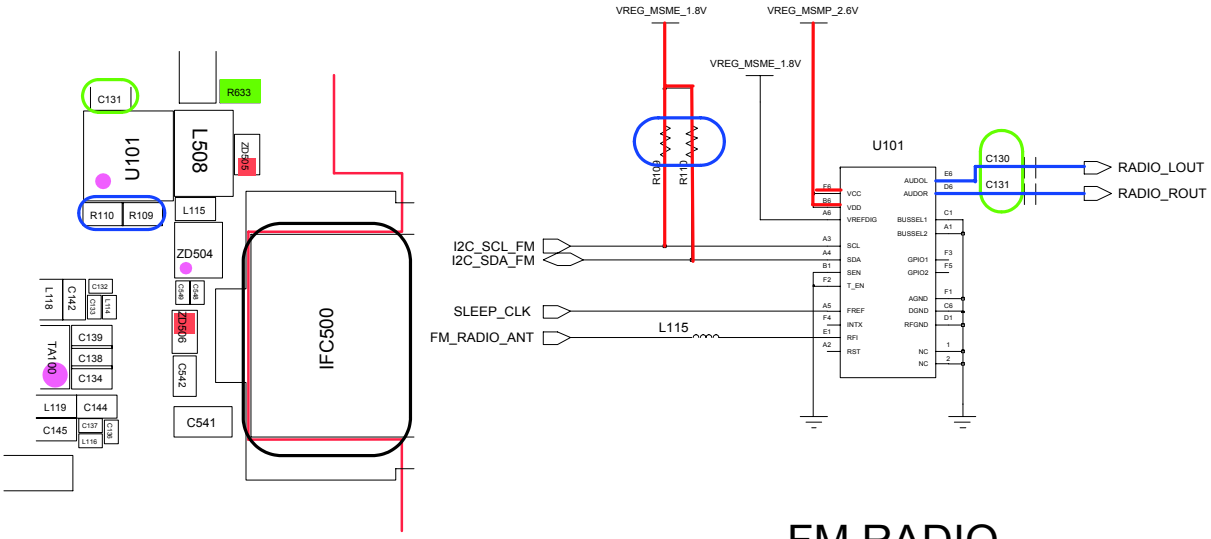
BT MODULE





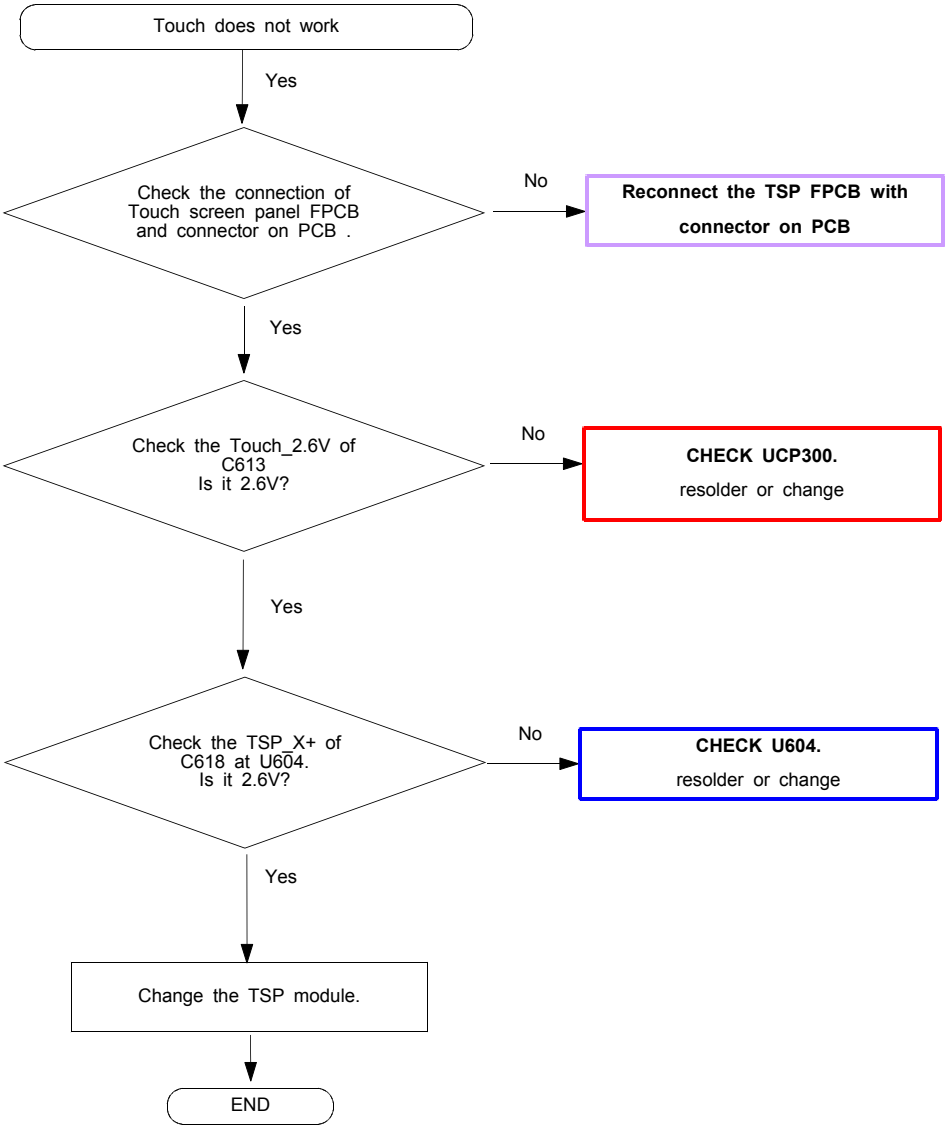
9-4. FM Radio Part

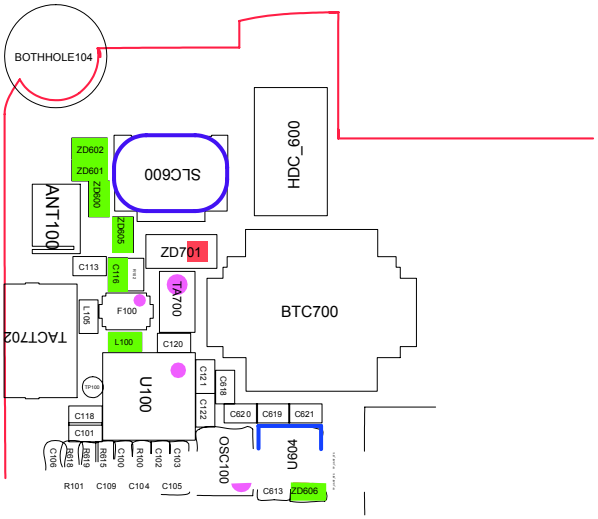


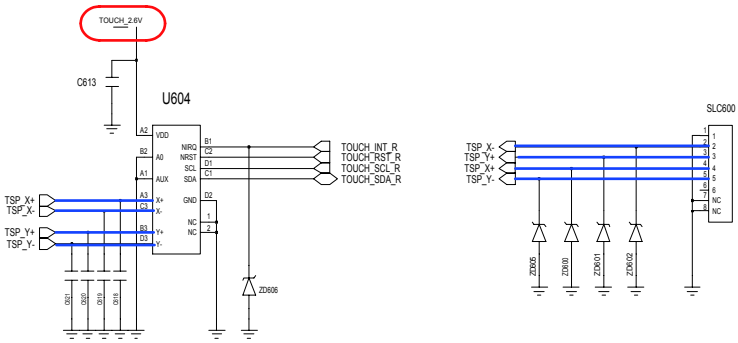


FM RADIO

9.5 Touch Screen Panel (TSP)



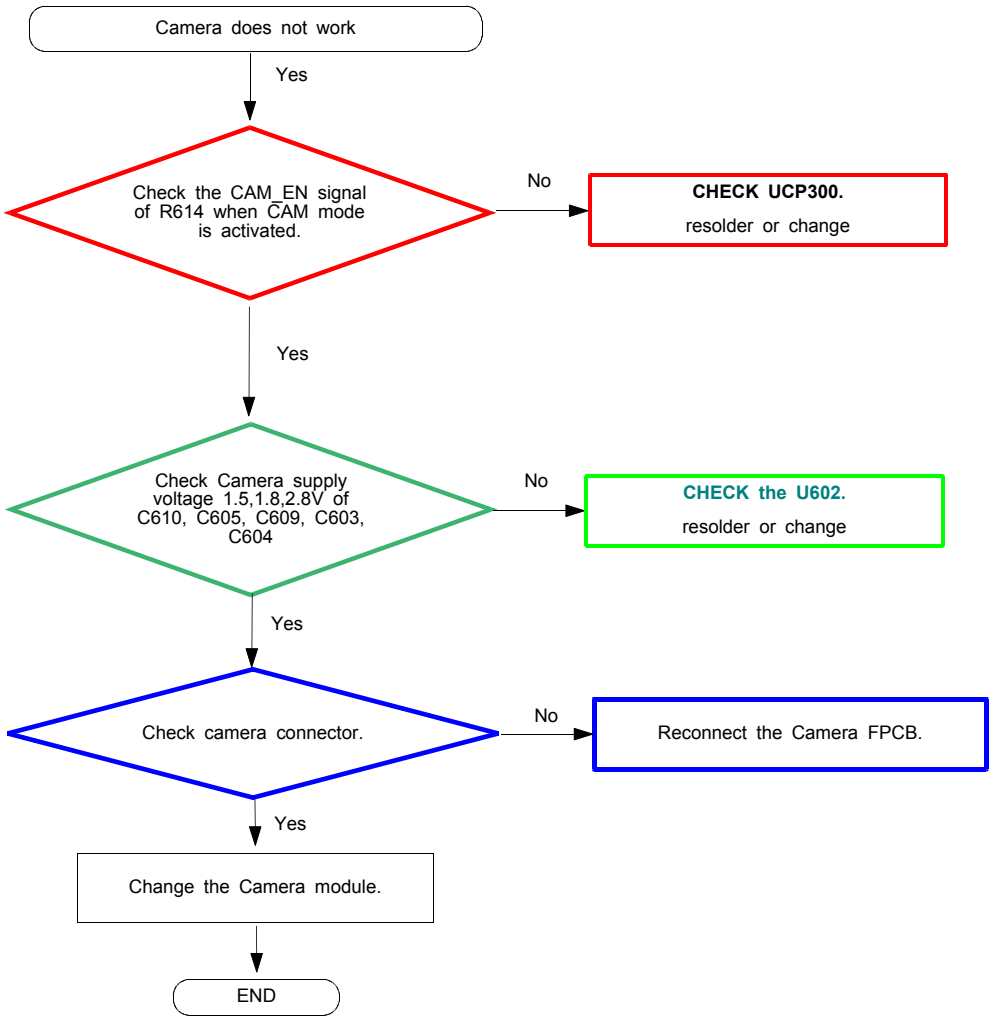


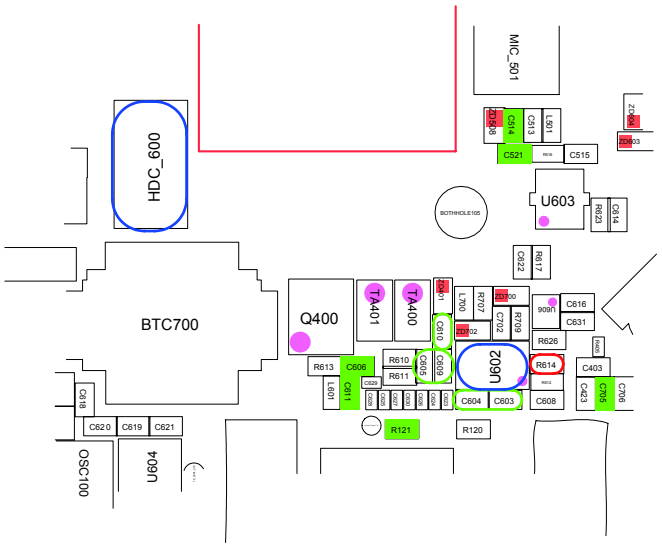


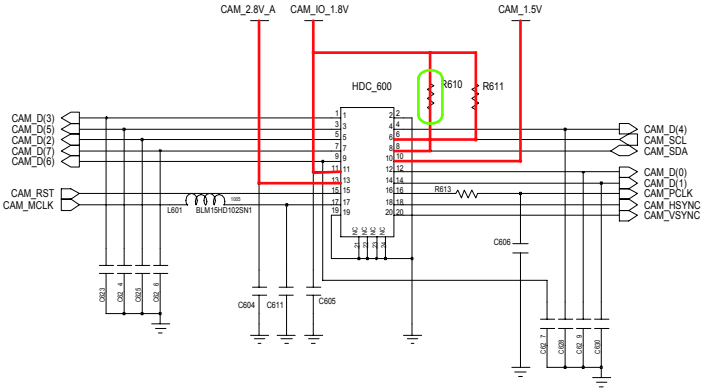
TOUCH CONN

R-TYPE - U604 SMD
C-TYPE - U604 N.C

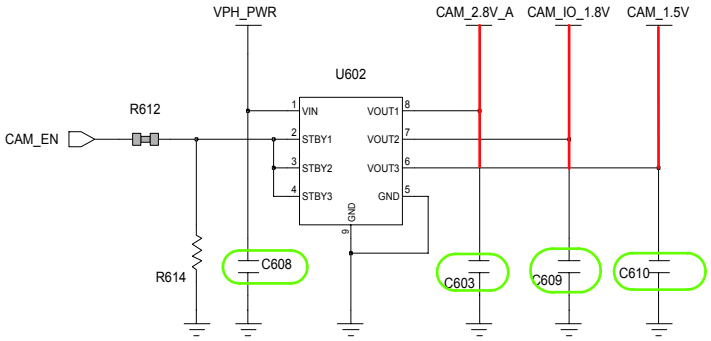
9-6. Camera







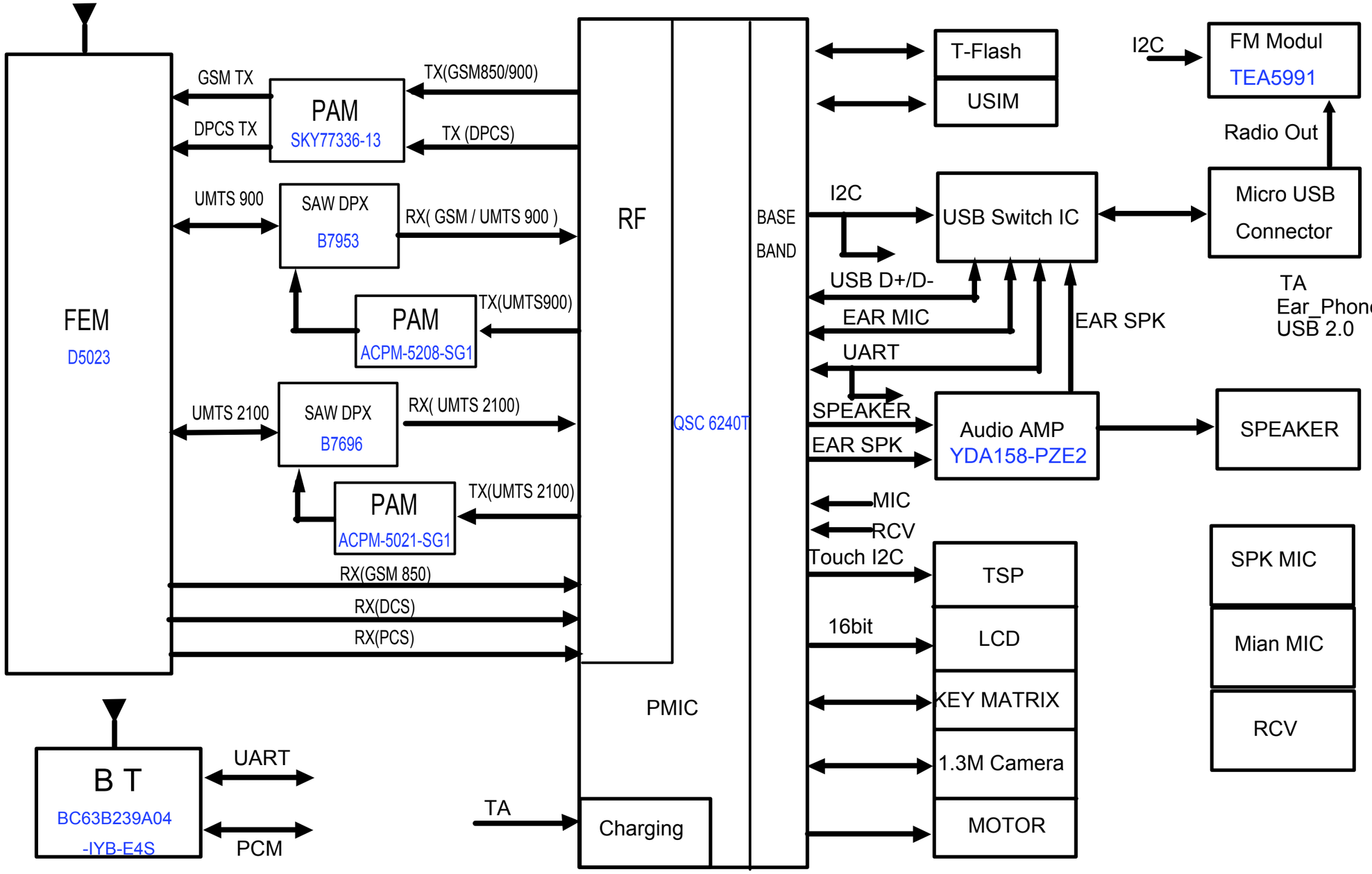
1.3MEGA CAMERA



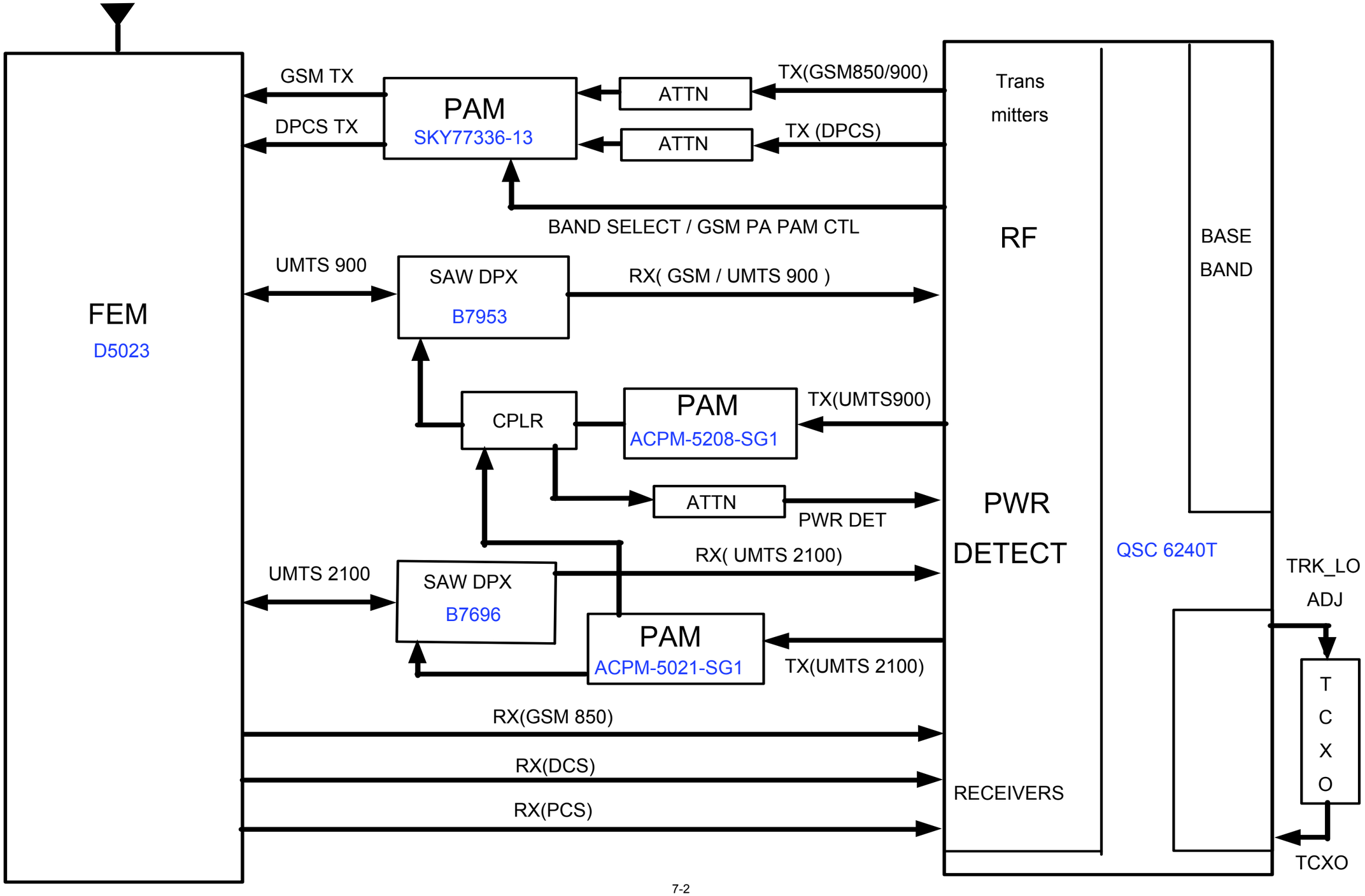
CAM LDO

7. Block Diagrams

7-1. Block Diagram

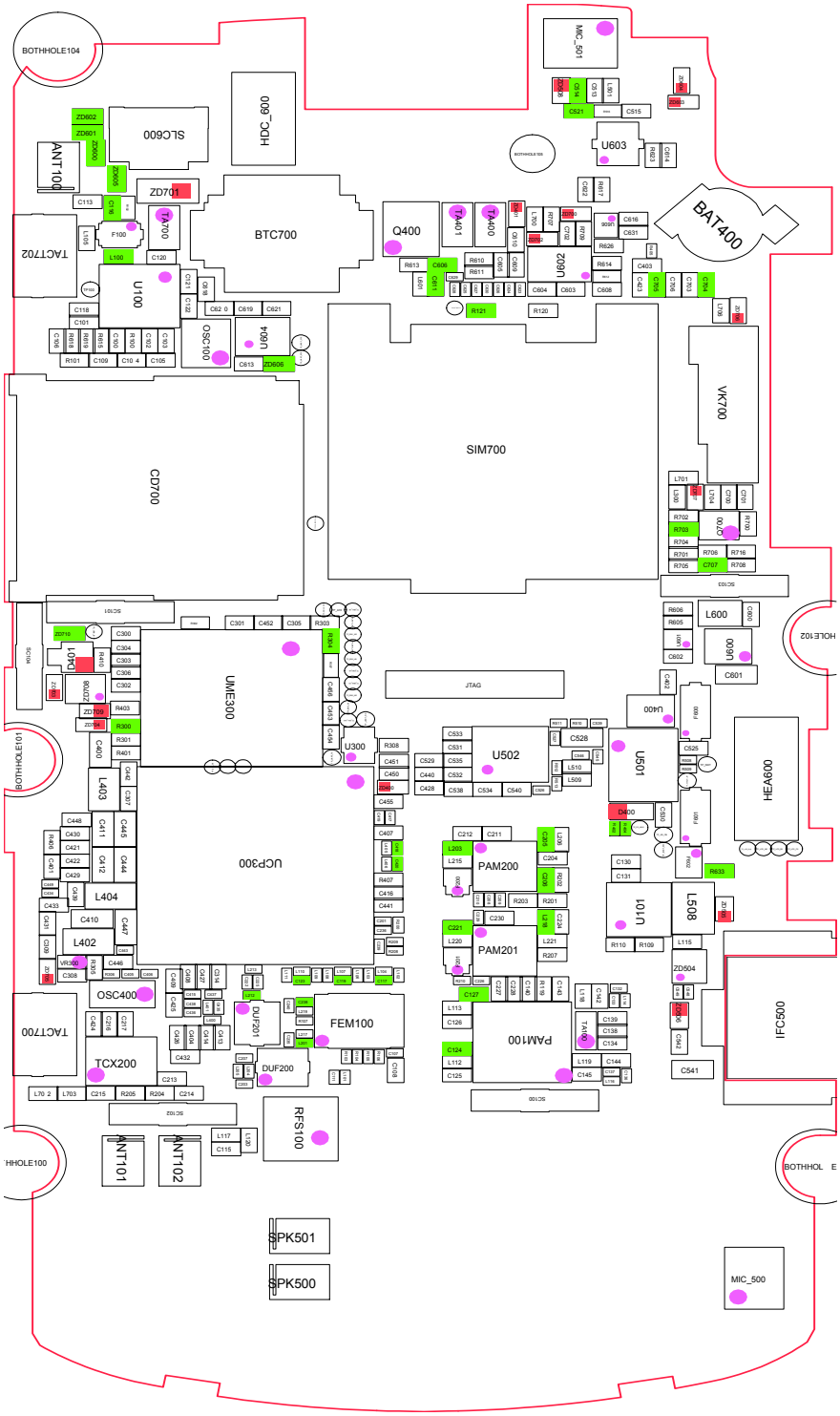


7-2. RF Blcok Diagram

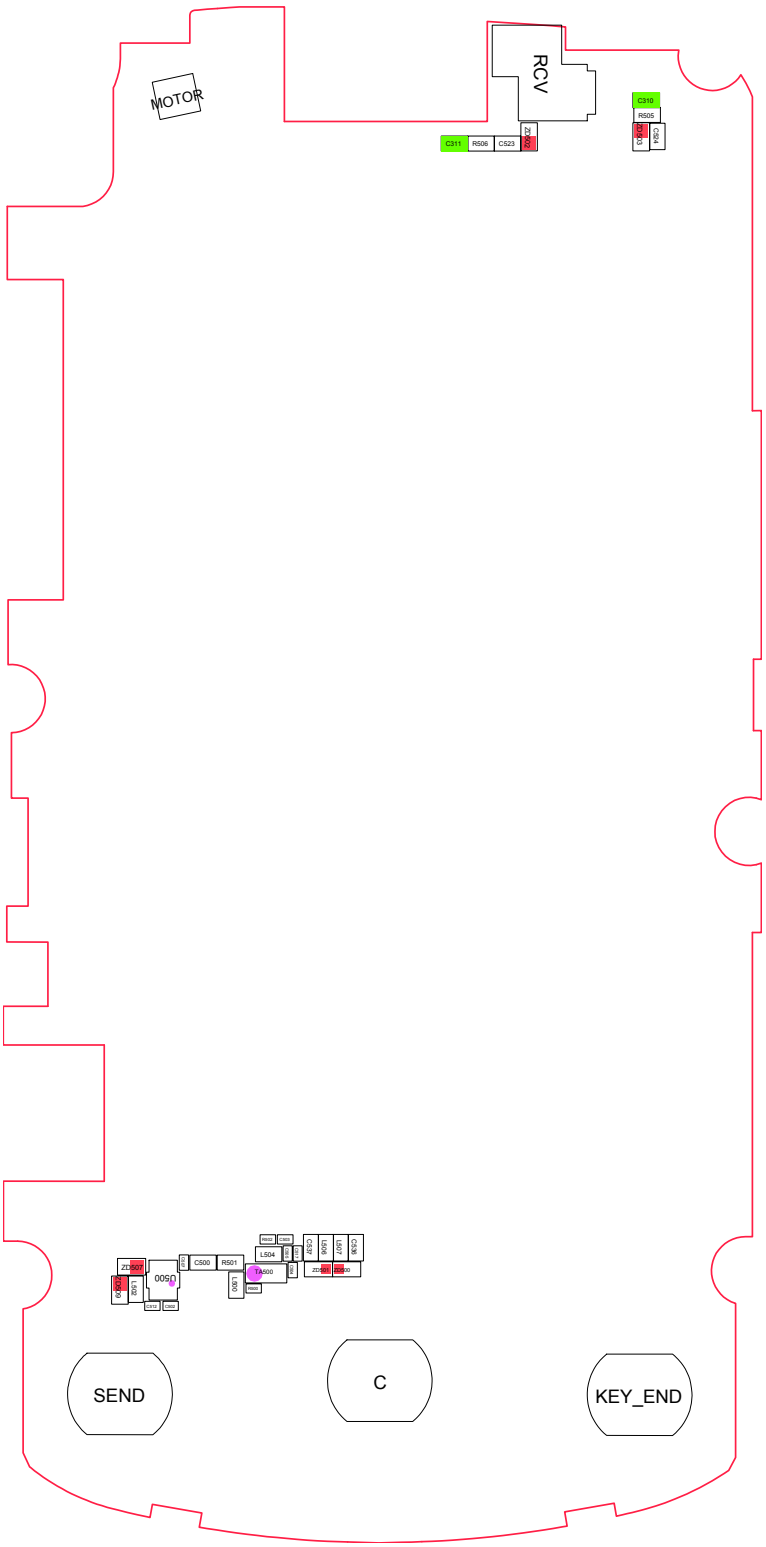


8. PCB Diagrams

8-1. Main Top

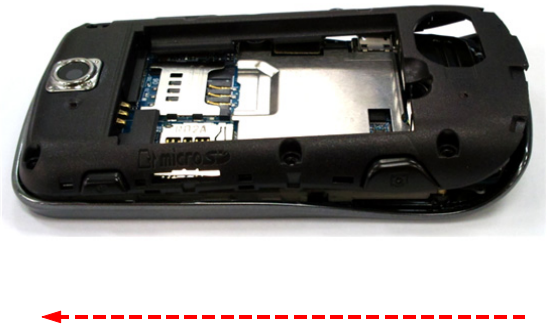
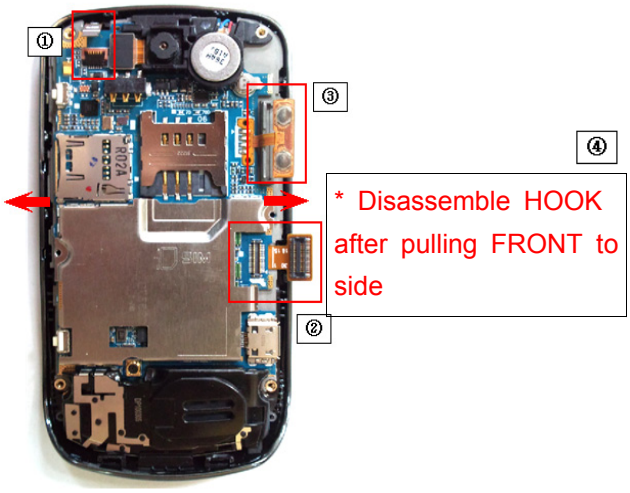


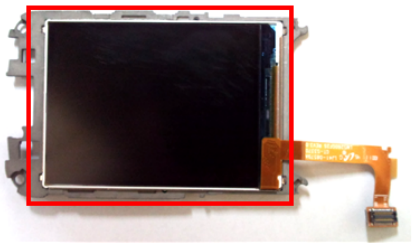
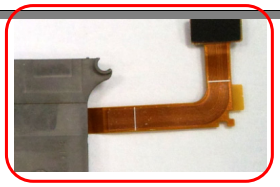
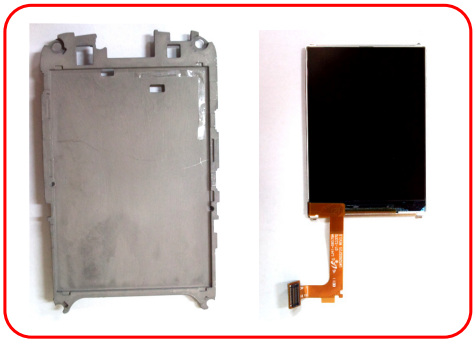
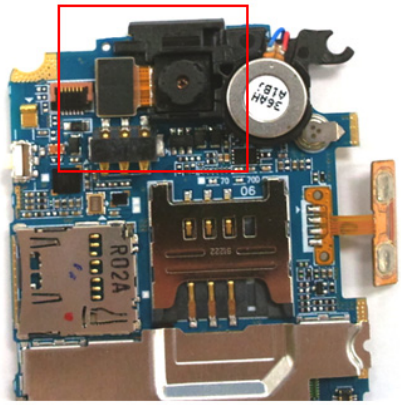
8-2. Main Bottom

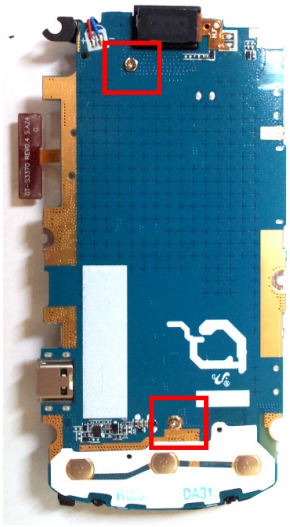
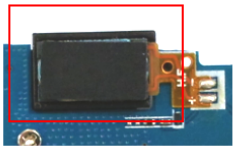
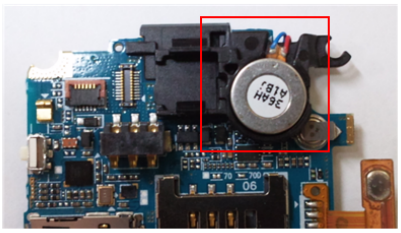
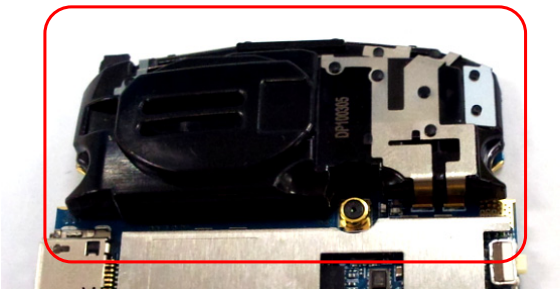
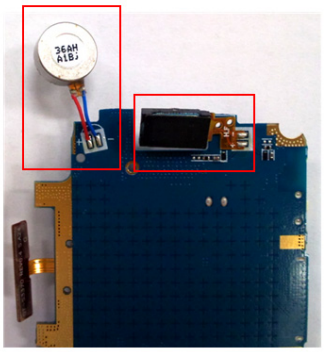
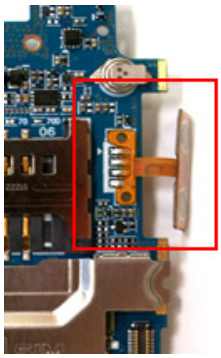


11. Disassembly and Assembly Instructions

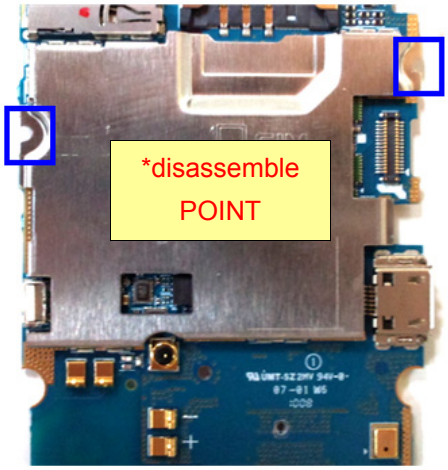
11-1. Disassembly

1 Unscrew 6 points at the REAR case 	2 Disassemble the REAR as below sequence 
1) Be careful not to make scratch and molding damage!	1) Be careful not to make scratch and molding damage! 2) Be careful not to damage IF COVER
3 lift up PBA after disassemble 1 → 4 sequence  * Disassemble HOOK after pulling FRONT to side	4 Disassemble the Keypad 
1) Be careful not to make scratch and molding damage! 2) Be careful FPCB damage when disassemble volume key	1) Be careful not to make scratch and molding damage!

5 Disassemble FRONT and LCD bracket  	6 Disassemble LCD and bracket after separate LCD FPCB  
1) Be careful not to make scratch and molding damage! 2) Be careful not to damage LCD	1) Be careful not to make scratch and molding damage! 2) Be careful not to damage LCD FPCB and LCD
7 Disassemble FRONT and TSP bracket  	8 Disassemble the Camera 
1) Be careful not to make scratch and molding damage!	1) Be careful not to make scratch and molding damage!

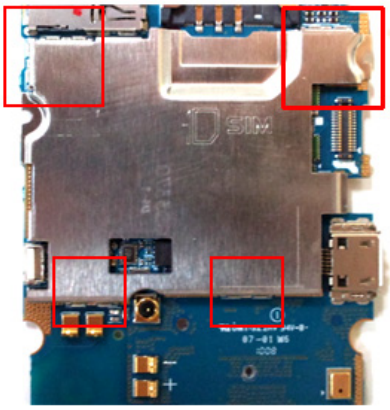
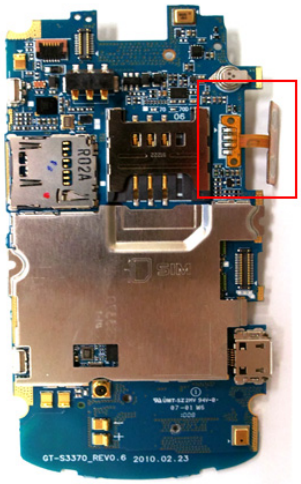
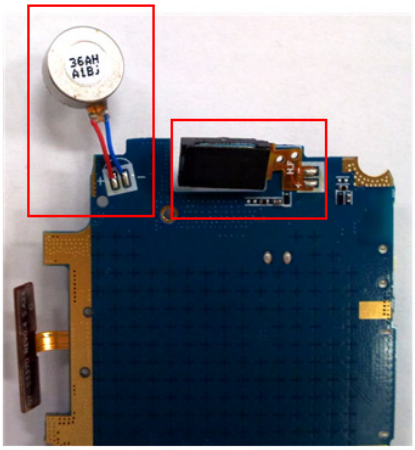
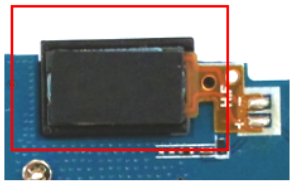
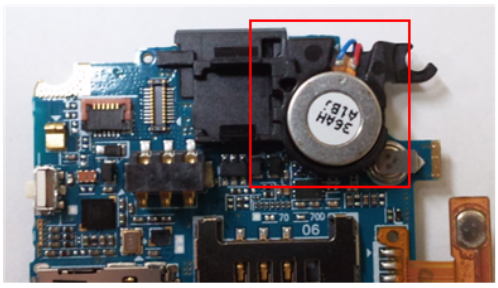
9 Disassemble screw 2 point 	10 Disassemble CAMERA bracket after motor and receiver  
1) Be careful not to make scratch and molding damage!	1) Be careful not to make scratch and molding damage!
11 Disassemble SPK module 	12 Desoldering Vibration motor, receiver, volume key FPCB  
1) Be careful not to make scratch and molding damage! 2) Be careful to intenna pin depression	1) Be careful not to make scratch and molding damage!

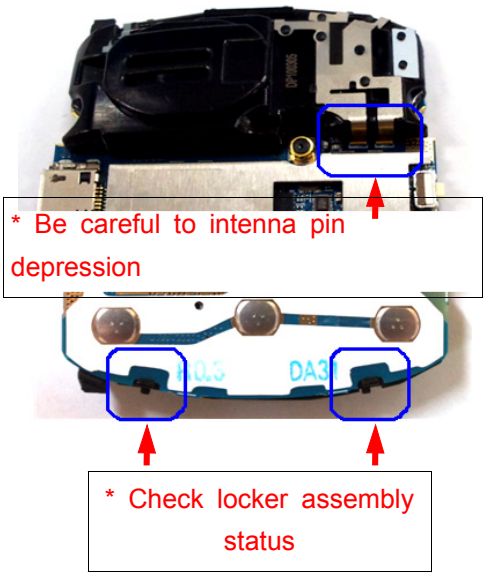
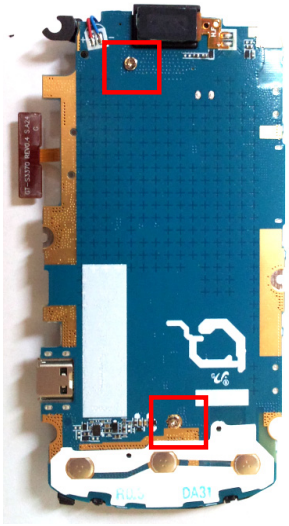
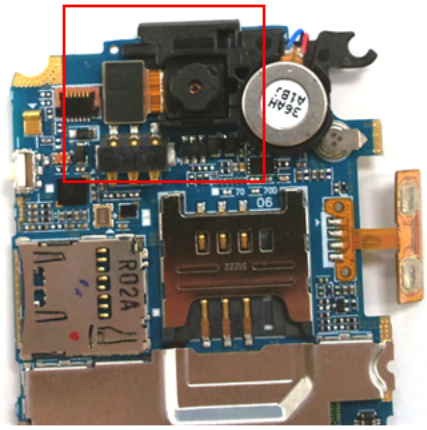
13 Disassemble the Shieldcan



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

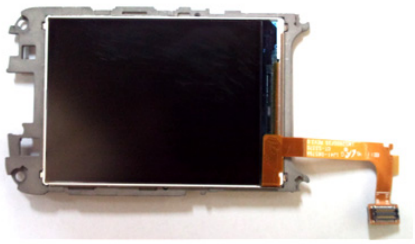
11-2. Assembly

1 Assemble the SHIELD CAN 	2 Soldering 4 points of Volume Key FPCB pad with PBA 
1) Be careful not to make scratch and molding damage!	1) Be careful not to make scratch and molding damage!
3 Soldering Volume Key FPCB pad and Receiver FPCB pad with PBA 	4 Place receiver and motor after assemble CAMERA bracket  
1) Be careful not to make scratch and molding damage!	1) Be careful not to make scratch and molding damage!

5 Assemble SPK module  	6 Screw 2 points at the PBA 
1) Be careful not to make scratch and molding damage! 2) Be careful to intenna pin depression	1) Be careful not to make scratch and molding damage!
7 Assemble CAMERA module after replace release paper. 	8 Place TSP on FRONT after putting TSP FPCB on FRONT hole. 
1) Be careful not to make scratch and molding damage! 2) assemble connector until occur 'click' sound	1) Be careful not to make scratch and molding damage!

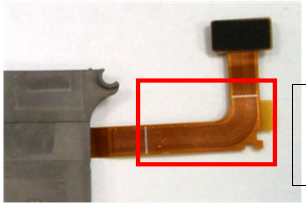
9 Assemble LCD module after remove LCD bracket release paper

* Remove release paper

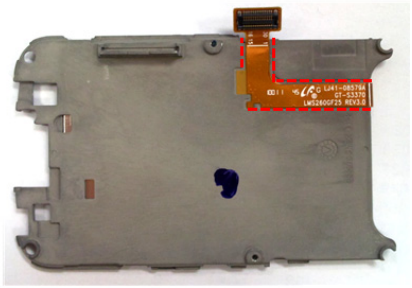


1) Be careful not to make scratch and molding damage!

10 Attach LCD FPCB on bracket's guide line after remove release paper



* Remove release paper



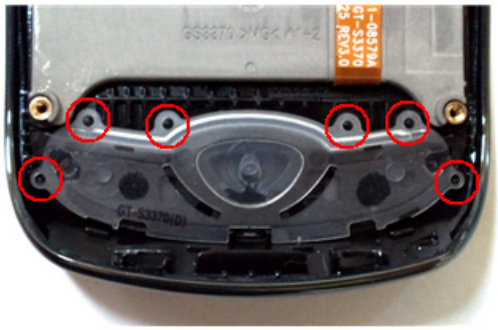
1) Be careful not to make scratch and molding damage!
2) attach on bracket's guide line

11 Assemble LCD bracket on FRONT after remove FRONT와 LCD의 protection vinyl

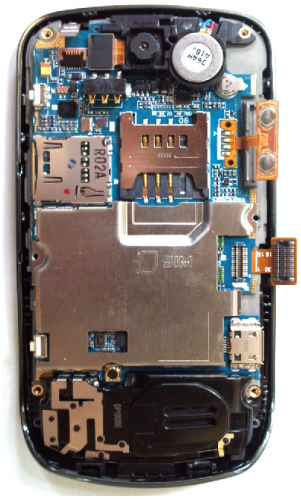
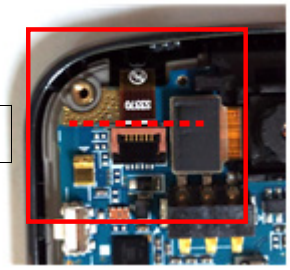
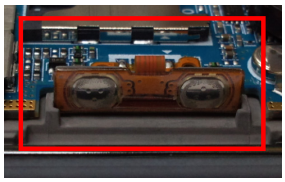
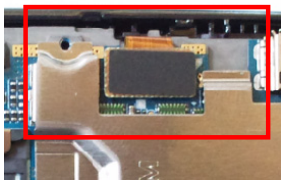
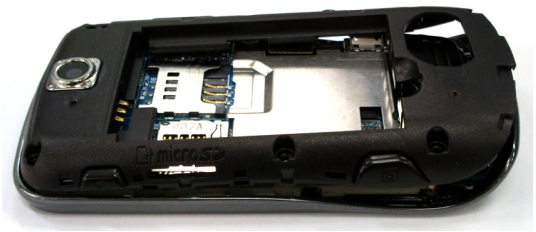
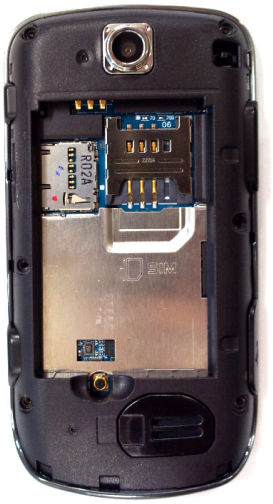
* Be careful to FPCB folding

1) Be careful not to make scratch and molding damage!
2) Be careful to TSP FPCB folding

12 Assemble KEYPAD



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

13 Place PBA ASS'Y on FRONT	14 Assemble LCD CONN after insert TSP FPCB until fit on silk line. Attach volume key FPCB after remove release paper
	* fit on silk line   
1) Be careful not to make scratch and molding damage!	1) Be careful not to make scratch and molding damage! 2) Insert TSP FPCB fit on silk line 3) Assemble connector until occur 'click' sound
15 Assemble REAR by upper to lower	16 Screw 6 points at the REAR case.
	
1) Be careful not to make scratch and molding damage!	1) Be careful not to make scratch and molding damage! 2) Torque adjust to 1.2 kgf/m

5-2. Cellular phone Parts list : GT-S3370DIASWR

Design LOC	Description	SEC CODE
QAR01	AUDIO-RECEIVER	3009-001453
QBC00	ASSY COVER-BATT(DI)	GH98-16826D
QBR05	PMO BRACKET-CAMERA	GH72-58473A
QCA01	ASSY CAMERA-GTS3370(1.3M)	GH96-04338A
QCK01	PMO KEY-CAMERA(DI)	GH72-59477D
QCK02	PMO KEY-HOLD(DI)	GH72-59272D
QCR03	SCREW-MACHINE	6001-001811
QCR72	SCREW-MACHINE	6001-002051
QFR01	ASSY CASE-FRONT(DI)	GH98-16825D
QKP01	ASSY KEYPAD-MAIN(DI)	GH98-16943D
QLB01	ASSY BRACKET-LCD	GH98-16942A
QLC01	ELA MODULE-LCD MODULE(GTS3370)	GH96-04756A
QME01	DOME SHEET-GTS3370	GH59-08912A
QME03	TOUCH/PANEL-GTS3370 EU/PNK	GH59-08969D
QMI03	RMO RUBBER-MIC_HOLDER_TOP(V3)	GH73-14041A
QMO01	MOTOR DC-SCHC250	GH31-00323A
QMP01	A/S ASSY-PBA MAIN,GTS3370,XEB,COMM,SVC	GH82-04812A
QRE01	ASSY CASE-REAR(DI)	GH98-16824D
QRF03	PMO COVER-USB(DI)	GH72-59478D
QSP01	MODULE-SPK+INT,GTS3370	GH59-09014A
QVK01	KEY FPCB-SIDE KEY(GTS3370)	GH59-08927A
QVO01	PMO KEY-VOLUME(DI)	GH72-59271D