

SAMSUNG

GSM TELEPHONE

GT-i9000B

SERVICE *Manual*

GSM TELEPHONE

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Notice

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**SAMSUNG
ELECTRONICS**



GSPN (Global Service Partner Network)

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North America	service.samsungportal.com
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1. Safety Precautions

1-1. Repair Precaution

- Repair in Shield Box, during detailed tuning.
Take specially care of tuning or test, because the specification 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.

2. Specification

2-1. GSM General Specification

	GSM850	EGSM 900	DCS1800	PCS1900	WCDMA2100	WCDMA850
Freq. Band[MHz] Uplink/Downlink	824~849 869~894	880~915 925~960	1710~1785 1805~1880	1850~1910 1930~1990	1922~1977 2112~2167	824~849 869~894
ARFCN range	128~251	0~124 & 975~1023	512~885	512~810	UL:9612~9888 DL:10562~10838	UL:4132~4233, 782,787,807, 812,837,862 DL:4357~4458, 1007,1012,1032, 1037,1062,1087
Tx/Rx spacing	45MHz	45MHz	95MHz	80MHz	190MHz	45MHz
Mod. Bit rate/ Bit Period	270.833kbps 3.692us	270.833kbps 3.692us	270.833kbps 3.692us	270.833kbps 3.692us	3.84Mcps	3.84Mcps
Time Slot Period/Frame Period	576.9us 4.615ms	576.9us 4.615ms	576.9us 4.615ms	576.9us 4.615ms	FrameLength: 10ms Slotlength: 0.667ms	FrameLength: 10ms Slotlength: 0.667ms
Modulation	0.3GMSK	0.3GMSK	0.3GMSK	0.3GMSK	QPSKHQPSK	QPSKHQPSK
MS Power	33dBm~5dBm	33dBm~5dBm	30dBm~0dBm	30dBm~0dBm	24dBm~-50dBm	24dBm~-50dBm
Power Class	5pcl ~ 19pcl	5pcl ~ 19pcl	0pcl ~ 15pcl	0pcl ~ 15pcl	3(max+24dBm)	3(max+24dBm)
Sensitivity	-102dBm	-102dBm	-100dBm	-100dBm	-106.7dBm	-106.7dBm
TDMA Mux	8	8	8	8	8	8
Cell Radius	35Km	35Km	2Km	2Km	2Km	2Km

2-2. GSM Tx Power Class

TX Power control level	GSM850	TX Power control level	EGSM900	TX Power control level	DCS1800	TX Power control level	PCS1900
5	33±2 dBm	5	33±2 dBm	0	30±3 dBm	0	30±3 dBm
6	31±2 dBm	6	31±2 dBm	1	28±3 dBm	1	28±3 dBm
7	29±2 dBm	7	29±2 dBm	2	26±3 dBm	2	26±3 dBm
8	27±2 dBm	8	27±2 dBm	3	24±3 dBm	3	24±3 dBm
9	25±2 dBm	9	25±2 dBm	4	22±3 dBm	4	22±3 dBm
10	23±2 dBm	10	23±2 dBm	5	20±3 dBm	5	20±3 dBm
11	21±2 dBm	11	21±2 dBm	6	18±3 dBm	6	18±3 dBm
12	19±2 dBm	12	19±2 dBm	7	16±3 dBm	7	16±3 dBm
13	17±2 dBm	13	17±2 dBm	8	14±3 dBm	8	14±3 dBm
14	15±2 dBm	14	15±2 dBm	9	12±4 dBm	9	12±4 dBm
15	13±2 dBm	15	13±2 dBm	10	10±4 dBm	10	10±4 dBm
16	11±3 dBm	16	11±3 dBm	11	8±4 dBm	11	8±4 dBm
17	9±3dBm	17	9±3dBm	12	6±4 dBm	12	6±4 dBm
18	7±3 dBm	18	7±3 dBm	13	4±4 dBm	13	4±4 dBm
19	5±3 dBm	19	5±3 dBm	14	2±5 dBm	14	2±5 dBm
				15	0±5 dBm	15	0±5 dBm

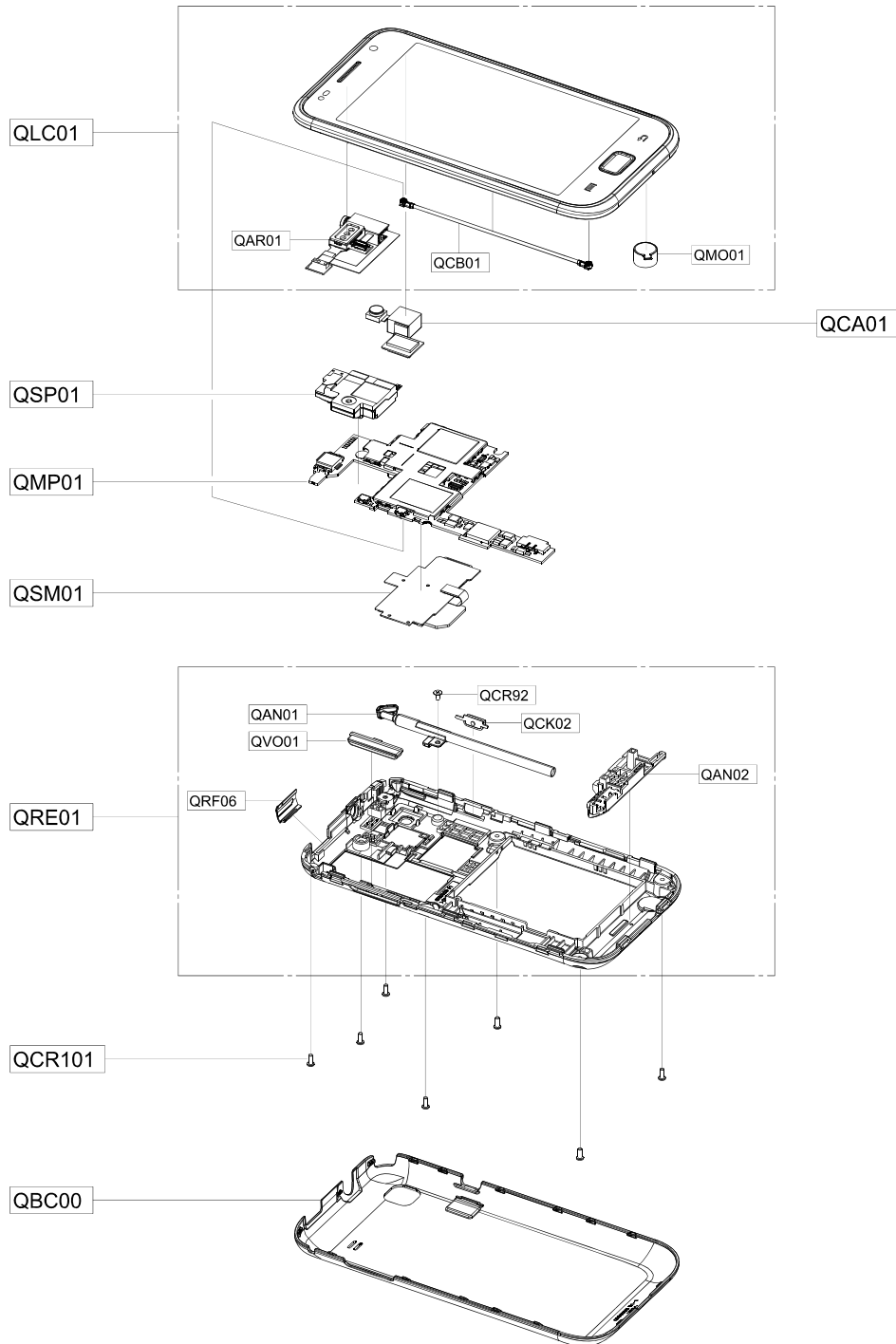
3. Operation Instruction and Installation

Main Function

- Android OS: Eclair
- HSDPA 7.2Mbps / HSUPA 5.76Mbps
- 5MP AF w/o LED Flash
- 4.0" WVGA Super AMOLED Full Touch (C-Type)
- A-GPS / BT v3.0 / USB v2.0 / WiFi (802.11 b/g/n)
- HD Recording (720p) / Full HD Playback (1080p), DLNA
- Sensors: Accelerometer, Compass, Proximity, Light
- TouchWiz 3.0 for Android, Multistage, Augmented Reality, Integrated phonebook with SNS, IM, E-mail, Face Recognition, etc.

4. Exploded View and Parts List

4-1. Cellular phone Exploded View



4-2. Cellular phone Parts list

Design LOC		Discription	SEC CODE
QCR101		SCREW-MACHINE	6001-002005
QCA01		CAMERA MODULE-5M A/F CMOS CAMERA MODULE	GH59-09400A
QSP01		MODULE-SPEAKER	GH59-09636A
QSM01		ASSY ETC-SIM/T-FLASH ASSY(GT-I9000B)	GH59-09704A
QMP01		A/S ASSY-PBA MAIN_GT-I9000B,BRAZ (SVC)	GH82-04996A
QBC00		ASSY COVER-BATTERY(GOOGLE)	GH98-17485A
QLC01		MEA FRONT-GT-I9000B	GH97-11299A
	QCB01	CBF COAXIAL CABLE-GT-I9000 ANT CABLE_(78	GH39-01418A
	QAR01	MODULE-RCV+SENSOR FPCB(I9000B);GT-I9000B	GH59-09920A
	QMO01	MOTOR LINEAR VIBRATION-GTS8000	GH31-00475A
QRE01		ASSY CASE-REAR	GH98-17086A
	QCR92	SCREW-MACHINE	6001-002261
	QAN02	INTENNA-GT-I9000B	GH42-02575A
	QAN01	ANTENNA-GT-I9000B_SBTVDI	GH42-02586A
	QRF06	PMO COVER-USB V3	GH72-59633A
	QVO01	ASSY KEY-VOLUME	GH98-17428A
	QCK02	PMO KEY-POWER	GH72-60316A

5. MAIN Electrical Parts List

Design LOC	SEC CODE	Description
ANT101	GH62-00016A	NPR CONTACT-ANTENNA
ANT102	3705-001448	CONNECTOR-COAXIAL
ANT103,ANT106,ANT701	GH71-08731A	NPR CONTACT-ANTENNA
BAT501	4302-001180	BATTERY-LI(2ND)
BTC501	3711-006299	HEADER-BATTERY
C101,C176	2203-005725	C-CER,CHIP
C102,C202,C205,C209	2203-007210	C-CER,CHIP
C103,C104,C105,C106C107,C108,C110,C111	2203-006194	C-CER,CHIP
C109,C165,C717,C718	2203-006399	C-CER,CHIP
C112,C130,C134,C182	2203-006194	C-CER,CHIP
C113,C140,C154,C501	2203-005736	C-CER,CHIP
C114	2203-006123	C-CER,CHIP
C115,C276	2203-000812	C-CER,CHIP
C118,L105	2703-002793	C-CER,CHIP
C119,C120,C127,C131	2203-005732	C-CER,CHIP
C121,C223,C224,C236	2203-005731	C-CER,CHIP
C123,C129,C166,C204	2203-006423	C-CER,CHIP
C124	2203-005727	C-CER,CHIP
C126,C142,C145,C157	2203-005726	C-CER,CHIP
C128	2203-005552	C-CER,CHIP
C132,C288	2203-005729	C-CER,CHIP
C133,C171,C242,C244	2203-006562	C-CER,CHIP
C135,C173,C174,C193	2203-006208	C-CER,CHIP
C136,C150	2203-000233	C-CER,CHIP
C139	2203-007133	C-CER,CHIP
C141	2203-007194	C-CER,CHIP
C143,C147,C152	2203-006674	C-CER,CHIP
C146	2203-005739	C-CER,CHIP
C149,C421	2203-006305	C-CER,CHIP
C151	2703-002649	C-CER,CHIP
C153	2203-005683	C-CER,CHIP
C155,C160,C161,C175	2203-006872	C-CER,CHIP
C158	2203-006620	C-CER,CHIP
C159,C715	2203-006979	C-CER,CHIP
C162,C246,C544	2203-006048	C-CER,CHIP
C163,C230,C231,C554	2203-006890	C-CER,CHIP
C164,C424,C427	2203-006642	C-CER,CHIP
C167,C541	2203-006648	C-CER,CHIP
C168,C172,C504	2203-006824	C-CER,CHIP
C170	2203-005446	C-CER,CHIP
C177,C192	2203-006120	C-CER,CHIP
C183,C704	2203-001259	C-CER,CHIP

Design LOC	SEC CODE	Description
C185	2203-006611	C-CER,CHIP
C186,C556	2203-002709	C-CER,CHIP
C187,C189,C190,C206	2203-006194	C-CER,CHIP
C188	2203-006693	C-CER,CHIP
C194	2203-000438	C-CER,CHIP
C195,C198	2203-005234	C-CER,CHIP
C196,C254,C255,C256	2203-006872	C-CER,CHIP
C197	2203-005050	C-CER,CHIP
C201,C203,C207,C208	2203-007369	C-CER,CHIP
C211,C214,C216,C241	2203-006423	C-CER,CHIP
C220,C226,C227,C229	2203-007369	C-CER,CHIP
C225,C233	2203-006474	C-CER,CHIP
C228,C232,C249	2203-007210	C-CER,CHIP
C234,C235,C243,C247	2203-007317	C-CER,CHIP
C239,C517,C539	2203-005731	C-CER,CHIP
C245,C308	2203-007393	C-CER,CHIP
C250,C251,C279,C281	2203-006562	C-CER,CHIP
C257,C258,C287,C403	2203-007317	C-CER,CHIP
C259,C260,C261,C262	2203-006423	C-CER,CHIP
C264,C278,C285,C286	2203-007369	C-CER,CHIP
C265,TA300	2404-001496	C-CER,CHIP
C267	2404-001561	C-CER,CHIP
C269	2404-001572	C-CER,CHIP
C275	2203-000278	C-CER,CHIP
C277	2203-000995	C-CER,CHIP
C282,C283,C351,C352	2203-006562	C-CER,CHIP
C301	2203-005732	C-CER,CHIP
C302,C310,C336,C337	2203-006423	C-CER,CHIP
C304,C407,C413,C429	2203-007271	C-CER,CHIP
C305,C306,C307,C338	2203-006838	C-CER,CHIP
C317,C332,C333,C401	2203-007369	C-CER,CHIP
C331	2203-006681	C-CER,CHIP
C339,C340,C524,C525	2203-006838	C-CER,CHIP
C344,C348,C402,C408	2203-006423	C-CER,CHIP
C349	2203-001153	C-CER,CHIP
C350	2203-000386	C-CER,CHIP
C400,C420,C514,C538	2203-006839	C-CER,CHIP
C404,C412	2203-007317	C-CER,CHIP
C405,C422,C425,C428	2203-007369	C-CER,CHIP
C410,C411,C414,C416	2203-006423	C-CER,CHIP
C415	2203-006668	C-CER,CHIP
C417,C418	2203-006133	C-CER,CHIP

Design LOC	SEC CODE	Description
C419,C542	2203-006423	C-CER,CHIP
C430,C503,C512,C522	2203-007369	C-CER,CHIP
C502	2203-006348	C-CER,CHIP
C505,C506,C507,C508,C509,C510,C511	2404-001339	C-CER,CHIP
C515,C516,C528,C533	2203-006562	C-CER,CHIP
C518	2203-006825	C-CER,CHIP
C519,C520,C521	2203-006208	C-CER,CHIP
C523,C526,C527,C530	2203-007369	C-CER,CHIP
C529,C531,C534,C535	2203-006838	C-CER,CHIP
C532,C536,C551,C557	2203-007369	C-CER,CHIP
C537	2203-006838	C-CER,CHIP
C547,C549,C550	2203-006841	C-CER,CHIP
C548	2203-000725	C-CER,CHIP
C553,C701,C702,C703	2203-006562	C-CER,CHIP
C601,C602,C603,C607	2203-007369	C-CER,CHIP
C705	2203-005450	C-CER,CHIP
C706,C710,C711,C716	2203-006839	C-CER,CHIP
C707,C713,C720,L701	2203-007369	C-CER,CHIP
C708,C709,C712	2203-006872	C-CER,CHIP
C714	2203-005806	C-CER,CHIP
C719	2203-006399	C-CER,CHIP
C721	2203-006839	C-CER,CHIP
C722,C723	2203-006439	C-CER,CHIP
D501	0407-001002	DIODE-TVS
F100	2904-001939	FILTER-SAW
F101	2904-001759	FILTER-SAW
F300,F301,F302,F303,F304,F305,F309	2901-001576	FILTER-EMI SMD
F306,F307,F308	2901-001604	FILTER-EMI SMD
F701	2904-001840	FILTER-SAW
HDC300	3711-006483	HEADER-BOARD TO BOARD
HDC301	3711-006865	HEADER-BOARD TO BOARD
HDC302,HEA601	3711-006650	HEADER-BOARD TO BOARD
HDC401	3711-007173	HEADER-BOARD TO BOARD
HEA301	3711-006923	HEADER-BOARD TO BOARD
IFC300	3722-002867	JACK-MICRO USB
L101,L102	2703-002918	INDUCTOR-SMD
L103	2703-002314	INDUCTOR-SMD
L104,L300	3301-001729	INDUCTOR-SMD
L106	2703-002953	INDUCTOR-SMD
L109	2703-002903	INDUCTOR-SMD
L111	2703-002858	INDUCTOR-SMD
L112	2703-002815	INDUCTOR-SMD

Design LOC	SEC CODE	Description
L113,L207,L208	2703-003698	INDUCTOR-SMD
L120	2703-002906	INDUCTOR-SMD
L121	2703-002775	INDUCTOR-SMD
L123	3301-001659	INDUCTOR-SMD
L205,L206	3301-001956	INDUCTOR-SMD
L209,L210	3301-001789	INDUCTOR-SMD
L301,L302,L303,L304	3301-001885	INDUCTOR-SMD
L305	2703-001259	INDUCTOR-SMD
L306,L311	3301-001885	INDUCTOR-SMD
L307,L308	2703-002842	INDUCTOR-SMD
L309,L601	3301-001912	INDUCTOR-SMD
L310,L713	2703-002961	INDUCTOR-SMD
L312,L314	3301-001971	BEAD-SMD
L313,L710,L714	3301-001534	BEAD-SMD
L501	2703-003182	INDUCTOR-SMD
L502,L503	2703-003343	INDUCTOR-SMD
L504	2703-003686	INDUCTOR-SMD
L505,L506	2703-002309	INDUCTOR-SMD
L702	2703-002596	INDUCTOR-SMD
L703	2703-002612	INDUCTOR-SMD
L704,L708	2703-001786	INDUCTOR-SMD
L705	2703-002608	INDUCTOR-SMD
L706	2703-002636	INDUCTOR-SMD
L707	2703-002198	INDUCTOR-SMD
L709	2703-002269	INDUCTOR-SMD
L711	2703-001180	INDUCTOR-SMD
L712	2203-007369	INDUCTOR-SMD
L715,L716	2703-002958	INDUCTOR-SMD
OSC100	2809-001358	OSCILLATOR-VCTCXO
OSC101	2809-001348	OSCILLATOR-VCTCXO
OSC102	2804-001884	OSCILLATOR
OSC200,OSC501	2801-004902	CRYSTAL-SMD
OSC400	2801-004458	CRYSTAL-SMD
OSC701	2801-004560	CRYSTAL-SMD
PAM101	1201-003034	IC-POWER AMP
PAM102	1201-003099	IC-POWER AMP
PAM103	1201-003032	IC-POWER AMP
PAM104	1201-002801	IC-POWER AMP
Q300	0504-001138	TR-DIGITAL
R100,R113,R414,R415	2007-008419	R-CHIP
R101,R102,R117,R275	2007-009801	R-CHIP
R118,R601,R603	2007-008806	R-CHIP

Design LOC	SEC CODE	Description
R119,R235,R239,R342	2007-008055	R-CHIP
R121,R122,R123,R124,R125,R266,R286,R287	2007-008516	R-CHIP
R127	2007-000155	R-CHIP
R211,R212,R216,R233	2007-008045	R-CHIP
R214,R288	2007-000167	R-CHIP
R215,R280,R475,R476	2007-009157	R-CHIP
R217,R345	2007-009084	R-CHIP
R218	2007-007573	R-CHIP
R222,R223,R224	2007-008588	R-CHIP
R229	2007-003018	R-CHIP
R234,R240,R301,R335	2007-008045	R-CHIP
R237,R238	2007-008211	R-CHIP
R245	2007-009323	R-CHIP
R248	2007-008587	R-CHIP
R249	2007-000242	R-CHIP
R278,R279,R343,R344	2007-008531	R-CHIP
R283	2007-008483	R-CHIP
R302,R346,R417,R418	2007-008516	R-CHIP
R303,R304,R309,R353	2007-008774	R-CHIP
R305	2007-007943	R-CHIP
R308	2007-008015	R-CHIP
R326,R328,R329,R330,R331,R340	2007-009171	R-CHIP
R347,R420,R532,R604	2007-008045	R-CHIP
R350	2007-010202	R-CHIP
R354,R355,R356,R357	2007-008774	R-CHIP
R358,R360,R503	2007-008774	R-CHIP
R359,R404,R439,R703	2007-008052	R-CHIP
R411	2007-010029	R-CHIP
R412	2007-008548	R-CHIP
R419,R423,R428,R432	2007-008516	R-CHIP
R431,R434,R435,R437	2007-008055	R-CHIP
R438,R457,R505,R506	2007-008055	R-CHIP
R440,R441,R461,R466	2007-008516	R-CHIP
R447,R448,R449,R450	2007-008419	R-CHIP
R451,R455	2007-009964	R-CHIP
R462,R463,R467,R468	2007-008419	R-CHIP
R465	2007-008531	R-CHIP
R473	2203-005138	R-CHIP
R477,R502,R509,R622	2007-008516	R-CHIP
R479,R480,R481,R482	2007-008419	R-CHIP
R483,R484,R485,R486	2007-008419	R-CHIP
R501	2007-008809	R-CHIP

Design LOC	SEC CODE	Description
R507,R511,R709	2007-008055	R-CHIP
R518,R520	2007-007307	R-CHIP
R521	2007-008502	R-CHIP
R521	2007-008502	R-CHIP
R560	2007-007592	R-CHIP
R701,R702,R711	2007-008419	R-CHIP
R704	2007-008052	R-CHIP
R705	2007-000172	R-CHIP
R706	2007-007318	R-CHIP
R707,R708	2007-008045	R-CHIP
R710	2007-009793	R-CHIP
RFS100	3705-001503	CONNECTOR-COAXIAL
SC601,SC602,SC603,SC604,SC605,SC606, SC607,SC608, SC610,SC611,SC612	GH70-04443A	IPR SHIELD-CAN CLIP
SC613,SC615,SC616,SC617,SC618,SC619,SC620,SC621, SC622,SC623,SC624	GH70-03951A	IPR SHIELD-CAN CLIP
SC614,SC625	GH70-04828A	IPR SHIELD-CAN CLIP
TA501	2404-001506	C-TA,CHIP
TH201,TH401	1404-001221	THERMISTOR
U100	1201-002999	IC-RF AMP
U101	1205-003949	IC-TRANSCIEVER
U102	1203-006199	IC-DC/DC CONVERTER
U104	1204-003026	IC-TUNER
U105	4709-001844	IC-W-LAN MODULE
U106	1205-003966	IC-RECEIVER
U203,U206	1003-002352	IC-LEVEL DRIVER
U207	1205-003943	IC-CODEC
U209	0801-003227	IC-CMOS LOGIC
U210,U303	1203-004819	IC-POSI.FIXED REG.
U300	1203-004339	IC-MULTI REG.
U301	1001-001580	IC-ANALOG MULTIPLEX
U302	1001-001488	IC-ANALOG SWITCH
U307	1203-005521	IC-POSI.FIXED REG.
U308	0406-001369	DIODE-TVS
U503	1203-006186	IC-POWER SUPERVISOR
U505	1209-001817	IC-SENSOR
U506	1209-001877	IC-SENSOR
U507	1203-004925	IC-POSI.FIXED REG.
U508	1003-002047	IC-MOTOR DRIVER
U509	1203-005772	IC-VOLTAGE DETECTOR
U510	2007-007592	R-CHIP
U514	1203-006372	IC-RESET

Design LOC	SEC CODE	Description
U515,U602	1203-005854	IC-MULTI REG.
U601	0801-003022	IC-CMOS LOGIC
U606	1202-001036	IC-VOLTAGE COMP.
U607	0801-003139	IC-CMOS LOGIC
UCP200	1205-003993	IC-MODEM
UCP400	0902-002582	IC-MICROPROCESSOR
UME301	1107-001876	IC-FLASH MEMORY
V304,V305,V316,ZD300	1405-001200	VARISTOR
V306,V307,V308,V309,V310,V311,V312,V313,V314,V315,ZD601	1405-001177	VARISTOR
VOL_DOWN,VOL_UP	3404-001406	SWITCH-TACT
ZD301,ZD303,ZD304, ZD306	0406-001413	DIODE-TVS
ZD302	0403-001688	DIODE-TVS
ZD307,ZD308	0406-001231	DIODE-TVS
ZD502	0406-001322	DIODE-TVS
ZD701	0406-001267	DIODE-TVS

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

6. Level 1 Repair

6-1. S/W Download

6-1-1. Pre-requisite for S/W Downloading

- Downloader Program([Odin3 v1.0.exe](#))
- GT-I9000 Mobile Phone
- Data Cable
- Binary files

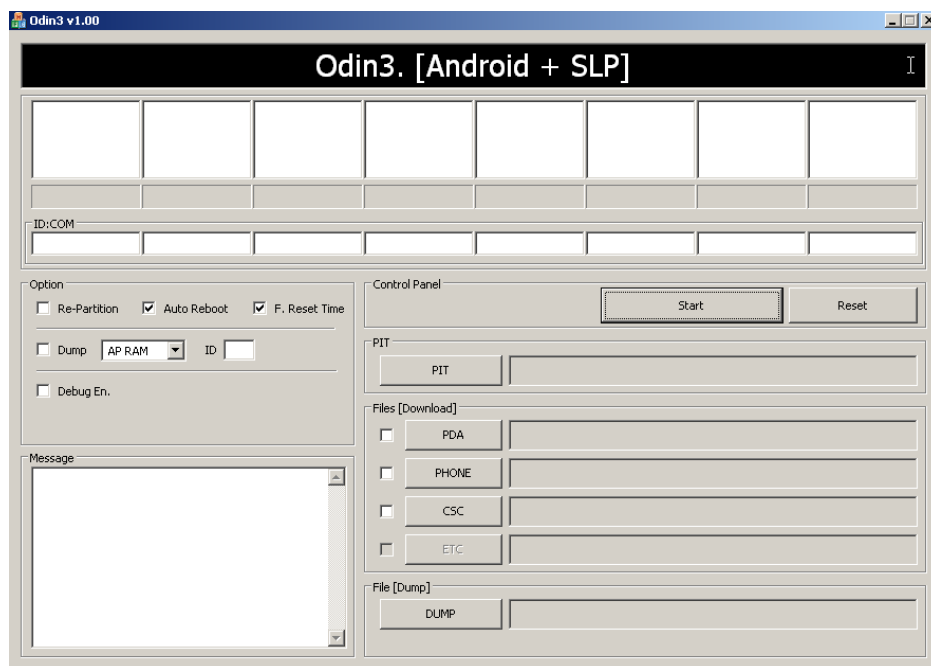
Anyway Jig	Adaptor	IF Cable	RF Cable
			
GH99-36900A	GH99-38251A	GH39-01290A	GH39-00985A

※ Settings



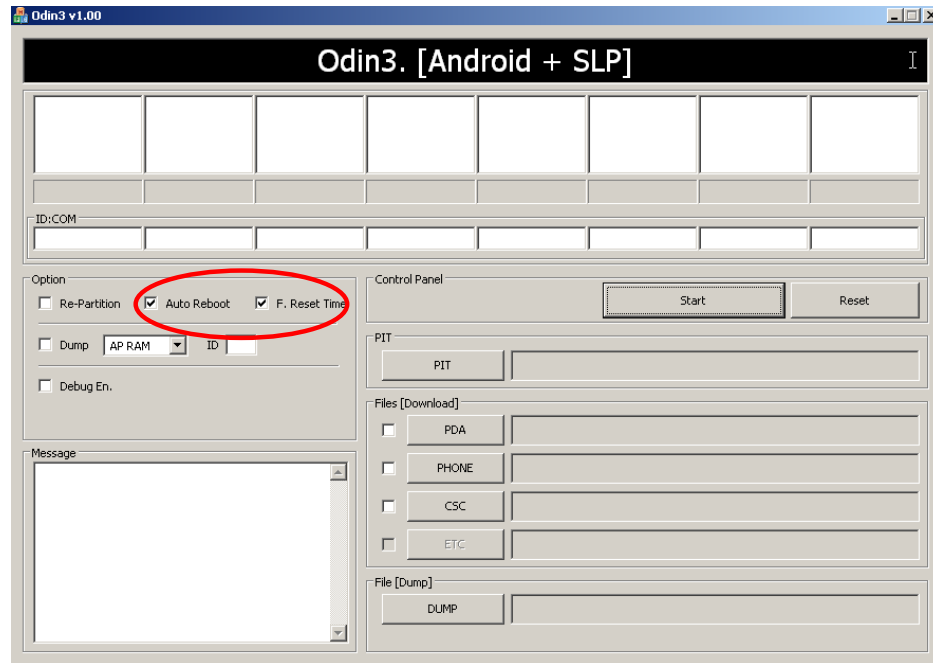
6-1-2. S/W Downloader Program

- Load the binary download program by executing the
" **Odin3 v1.0.exe** " ← **Run this file.**

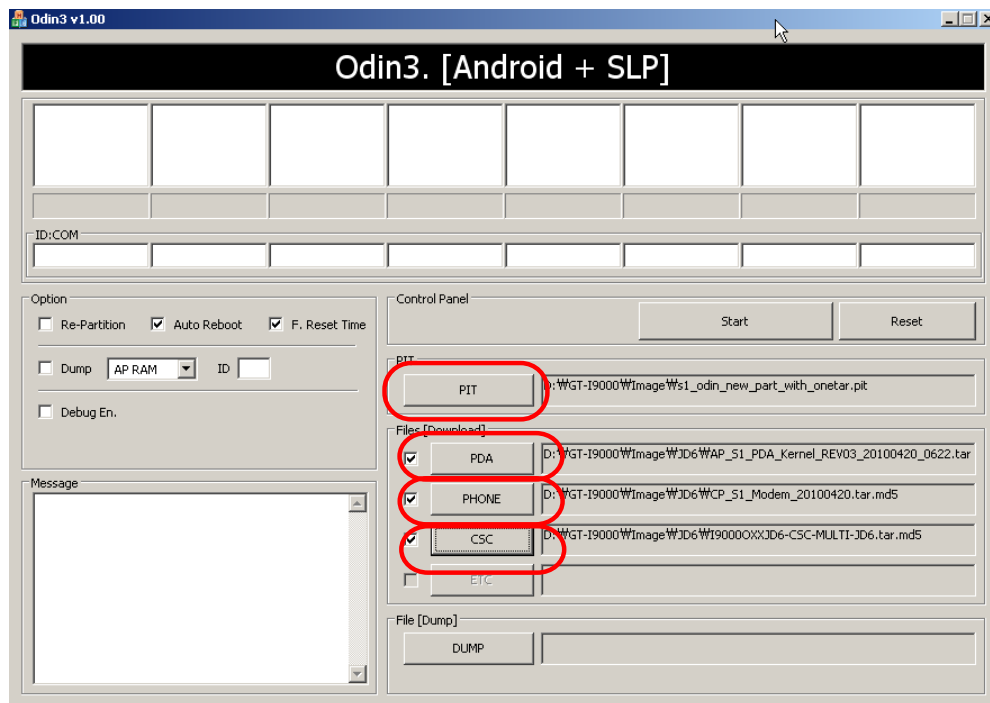


1. Option Selection

- Check Auto Reboot and F. Reset Time



2. Select the PIT, PDA, PHONE & CSC file.

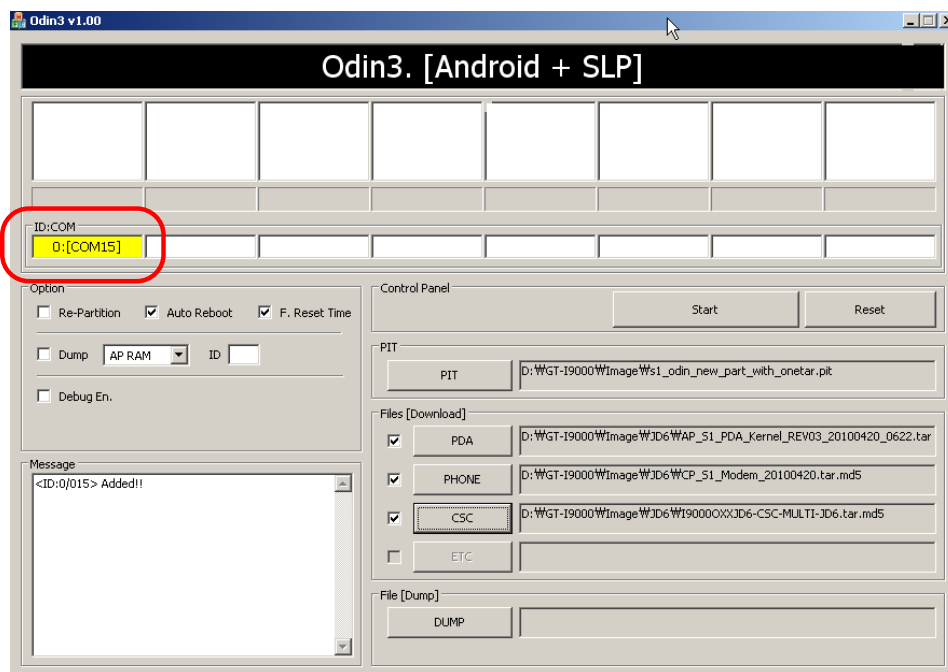


3. Enter Device into Download Mode

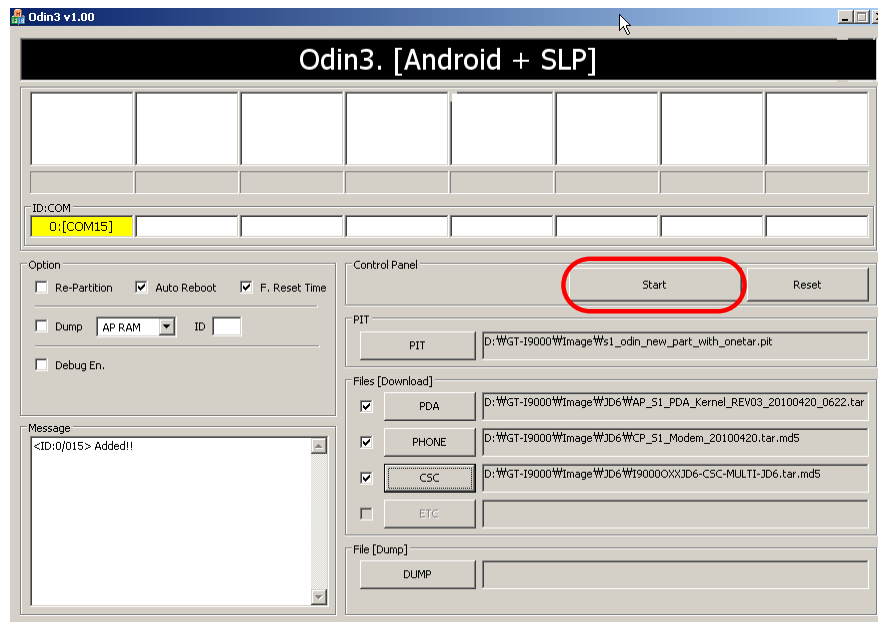
- Enter the device into Download Mode by pressing down on Volume Down button and OK button and Power On button at the same time.



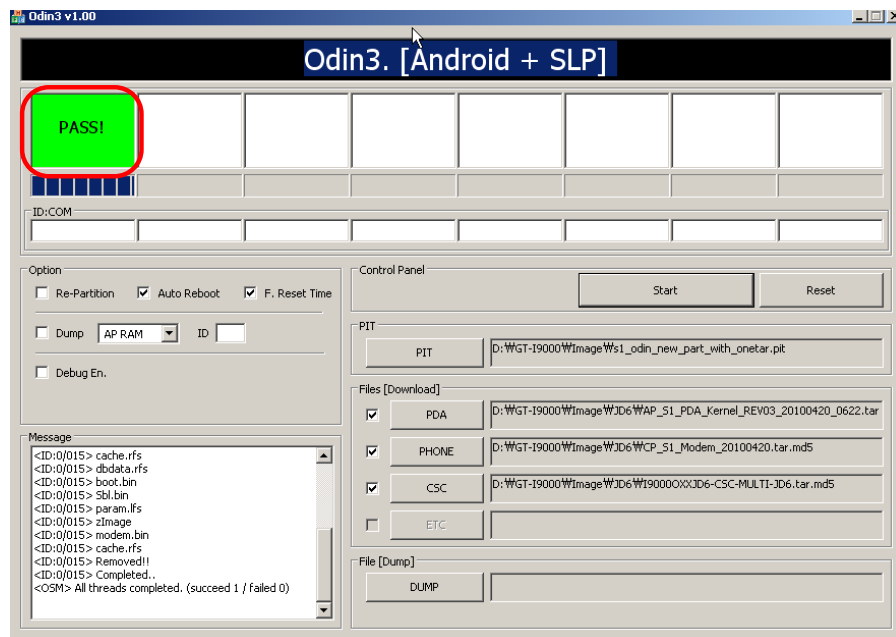
- ### 4. Connect the Handset to PC via a Data Cable. Make sure ID:COM box highlighted yellow to know that the handset is connected to the PC.



5. Start Downloading by clicking Start Button



6. Handset reboots when download completes.



7. Confirm the downloaded version name and etc. :

***#1234#**

Full Reset :

***2767*3855#**

7. Level 2 Repair

7-1. Disassembly and Assembly Instructions

7-1-1. Disassembly

1 Unscrew screws on the rear



2 Unhook the rear using a disassembly knife to remove the rear cover



Unscrew 7 screws on the rear using a screw driver.
screw torque : 1.2 ~ 1.4 kgf.cm

Be careful not to damage the rear cover when unhooking it.

3 Detach the Power Key FPCB



Detach the power key FPCB, that is stick to the bracket by a double-sided tape, using tweezers. Make sure to remove all remaining tape on the bracket.

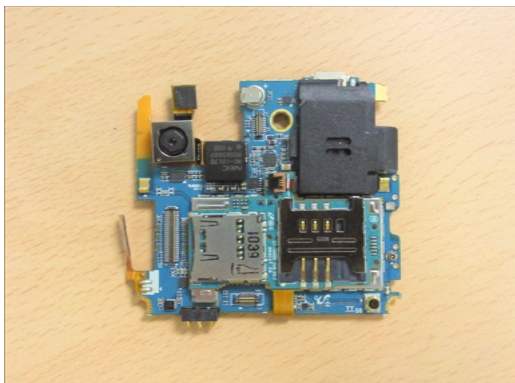
4 Disconnect connectors from the Main PBA



Disconnect LCD Connector, Receiver Connector, Sub-touch Key Connector and Antenna cable from the Main PBA

5

Pull out the Main PBA



6

Remove the Antenna Cable

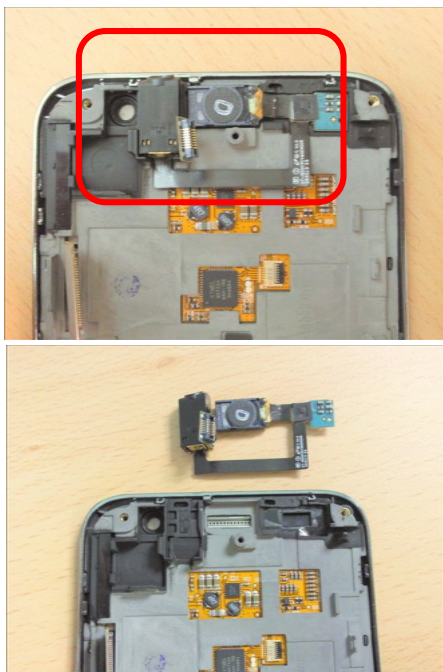


After disconnecting the connectors carefully pull the Main PBA out of the bracket.

Remove the antenna cable from the main Antenna PCB on the sub-touch key module.

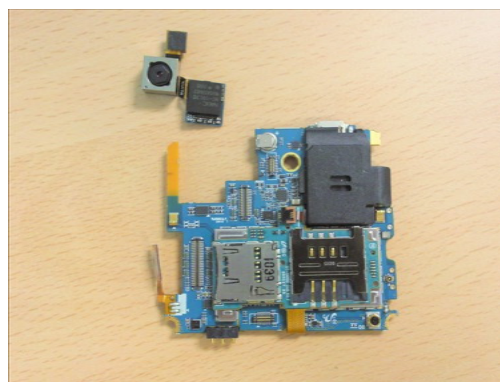
7

Remove the top shield can



8

Remove the Camera Module



Pull out the Receiver module from the bracket. Be careful not to damage the FPC.

Remove the camera module from the Main PBA by pulling it out.

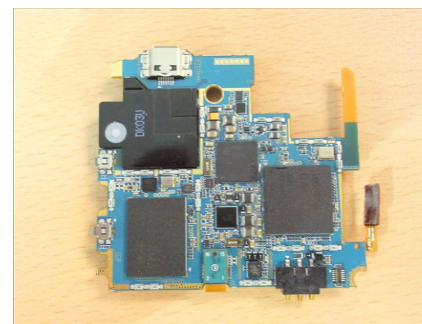
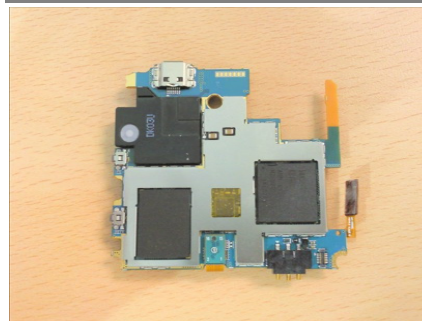
9

Pull out the Main PBA



10

Remove the top shield can

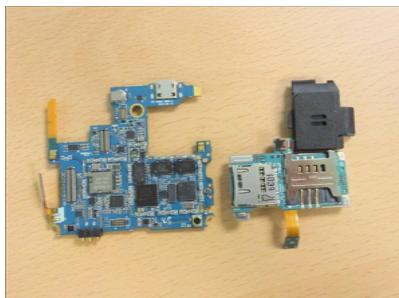


After disconnecting the connectors carefully pull the Main PBA out of the bracket.

Be careful not to damage the shield can and the components when removing it.

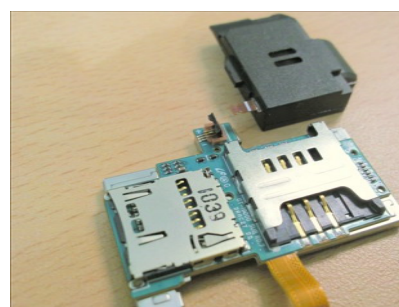
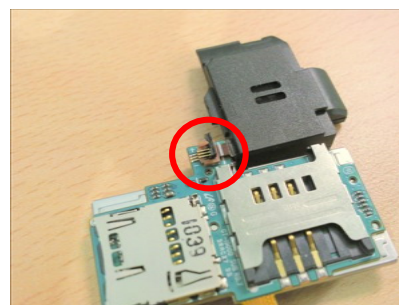
11

Remove the rear shield can + Sim Card PBA



12

Remove the speaker



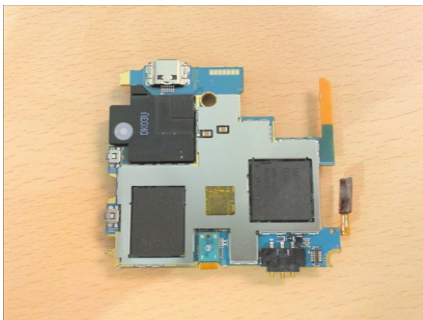
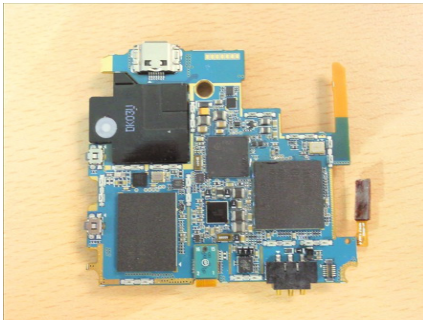
Disconnect the Sim Card PBA connector from the Main PBA then remove the rear shield can + Sim Card PBA

Remove the speaker by opening the connector.

7-1-2. Assembly

1

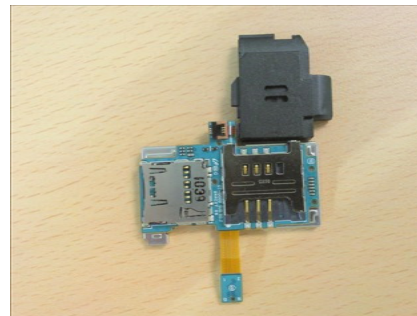
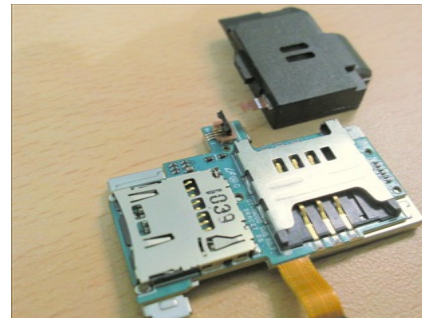
Place the top shield can.



Place the top shield can on the Main PBA

2

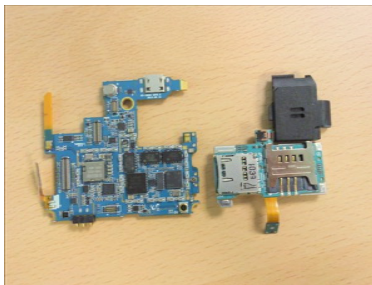
Connect the speaker to the Sim Card PBA



Connect the speaker to the Sim Card PBA by sliding FPC into the connector.

3

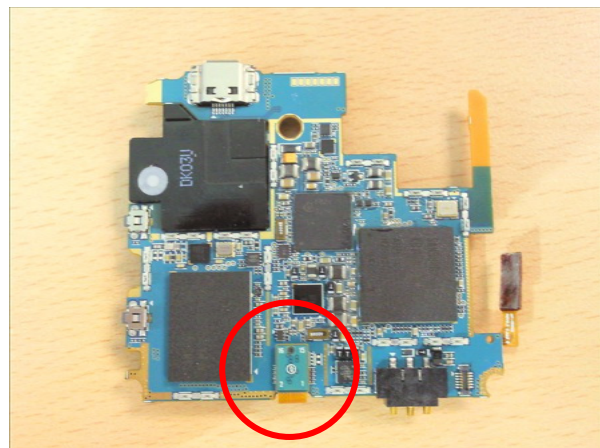
Place the Sim Card PBA + shield can



Place the bottom shield can + Sim Card PBA onto the bottom of the Main PBA. Make sure that the speaker locks into position and the shield can to be place correctly into the clips.

4

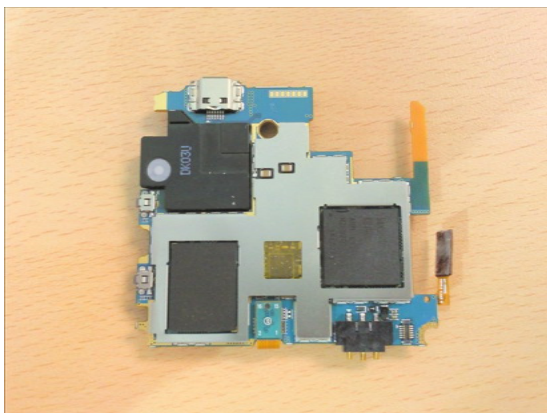
Connect the Sim Card PBA Connector



Connect the sim card PBA connector to the top of the main PBA.

5

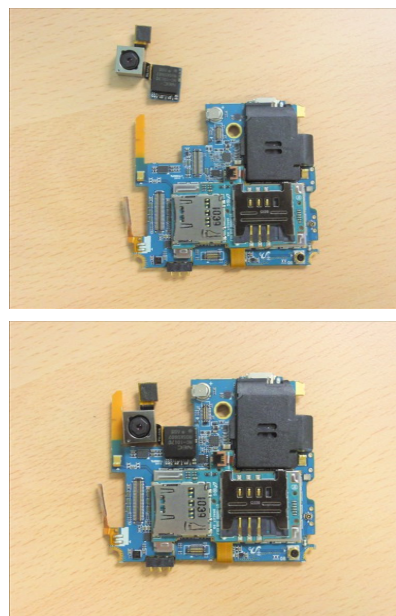
Place the top shield can



Place the top shield can on the top of the main PBA

6

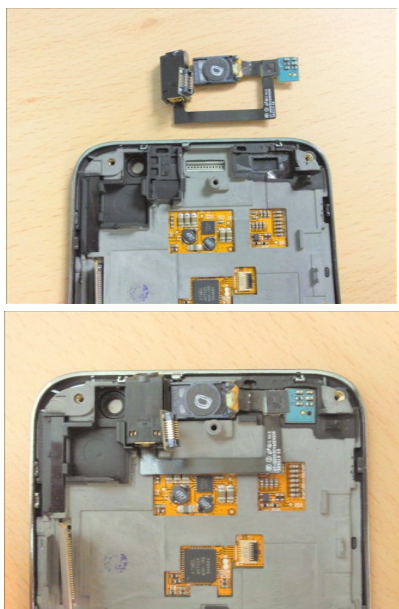
Place the camera module



Connect the camera module to the Main PBA

7

Place the Receiver Module



Place the receiver module onto the bracket.

8

Connect the Antenna Cable



Connect the antenna cable to the Main Antenna PCB

9

Place the Main PBA



Place the main PBA onto the bracket. Make sure to place the camera module into the socket correctly.

10

Connect LCD, Sub-touch key, Antenna and Receiver connectors and place the Power key



Connect LCD, Sub-touch key, Antenna and Receiver connectors, and place the Power key to the side of the bracket

11

Place the rear cover



Make sure all the hooks are placed correctly, and press the volume keys and the power key for tensions.

12

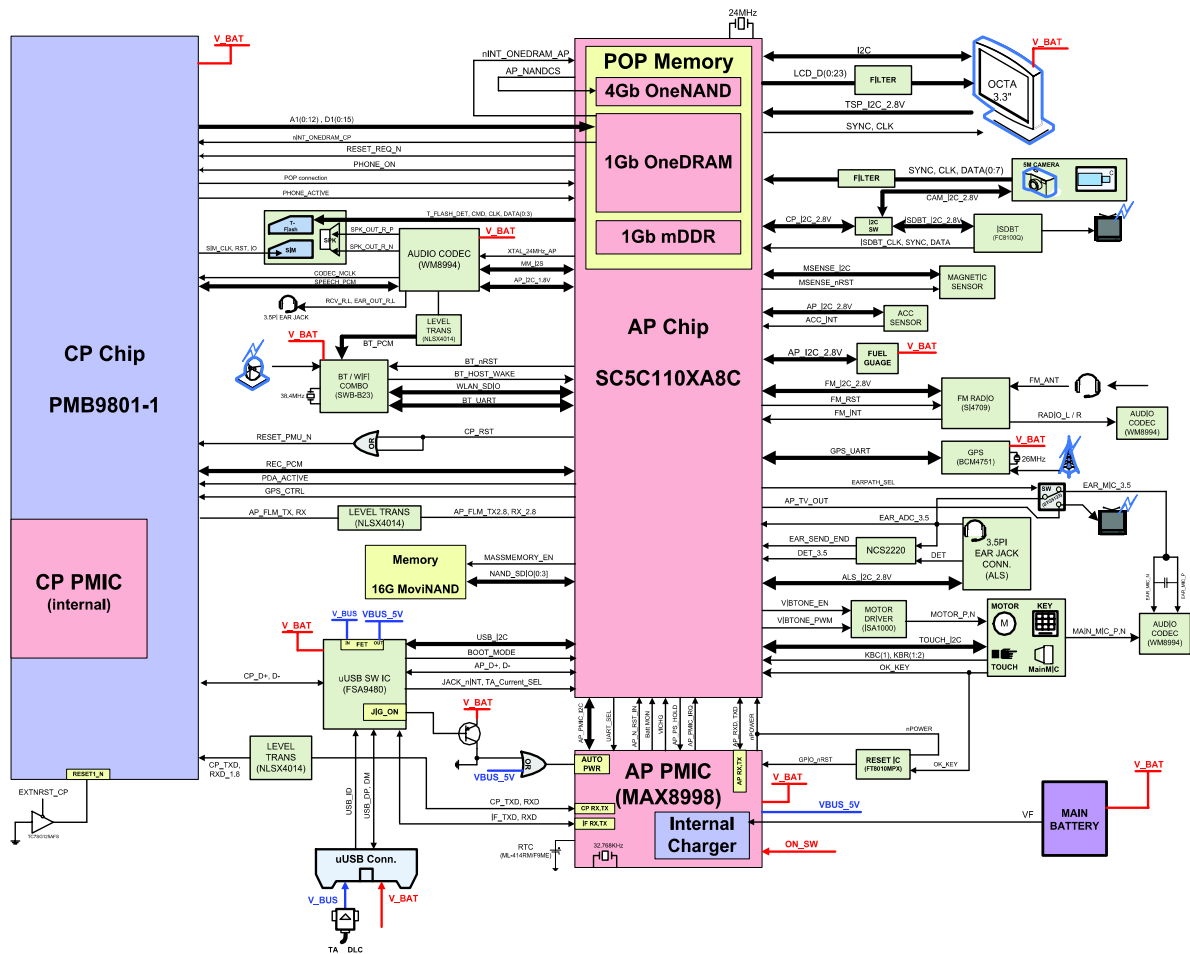
Screw the rear cover

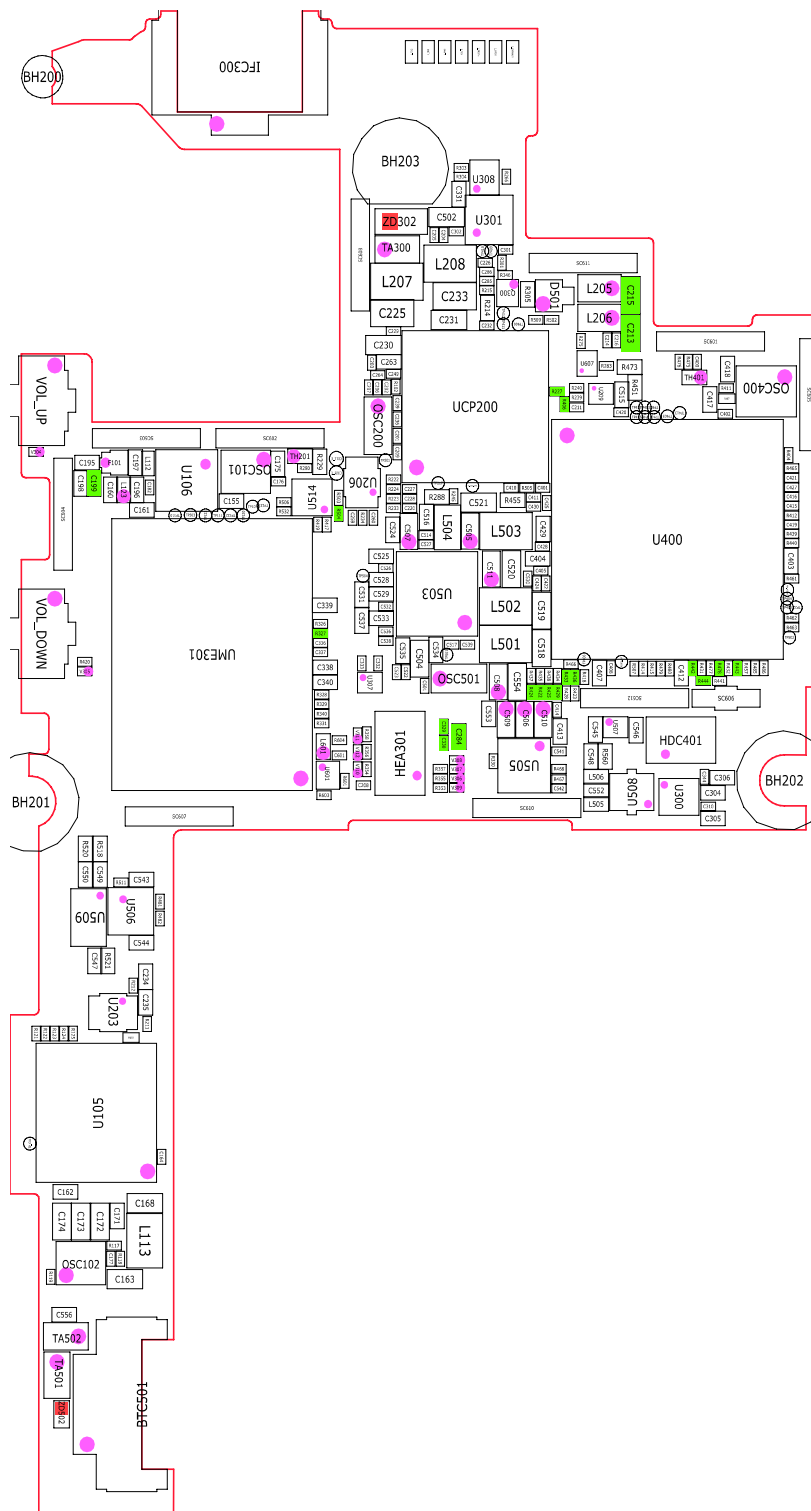


Screw 7 points on the rear cover
screw torque : 1.2 ~ 1.4 kgf.cm

8. Level 3 Repair

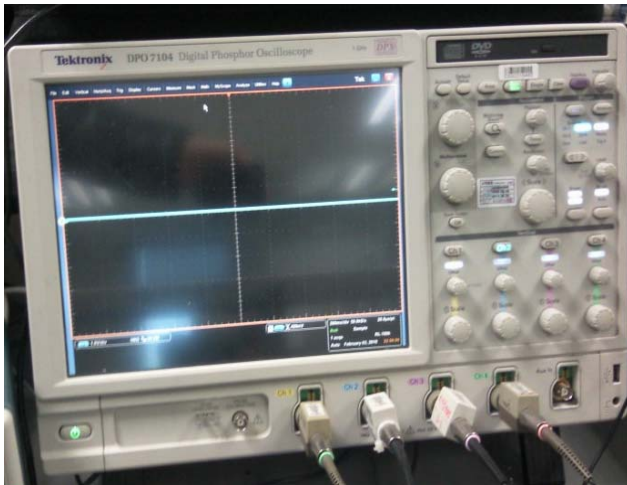
8-1. Block Diagram





8-3. Flow Chart of Troubleshooting

Equipments



↑ Oscilloscope



↑ Digital Multimeter

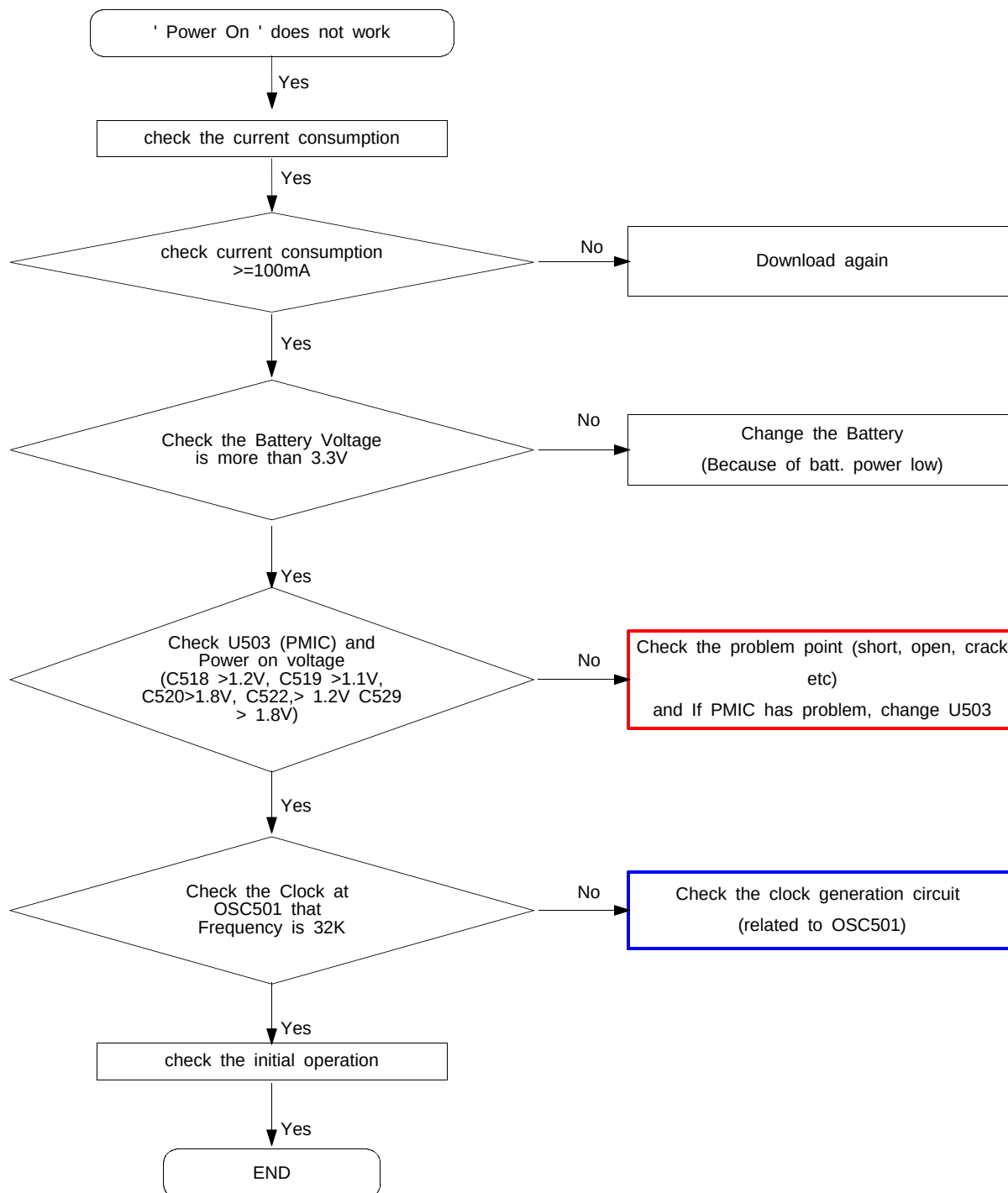


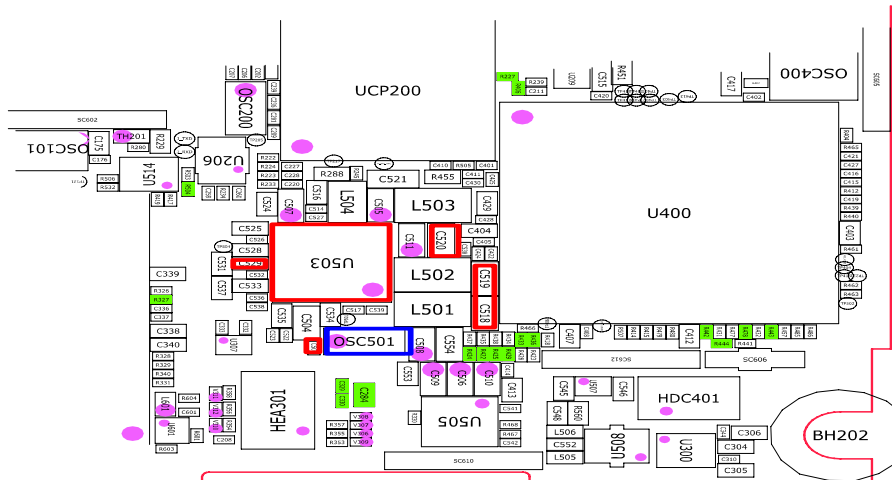
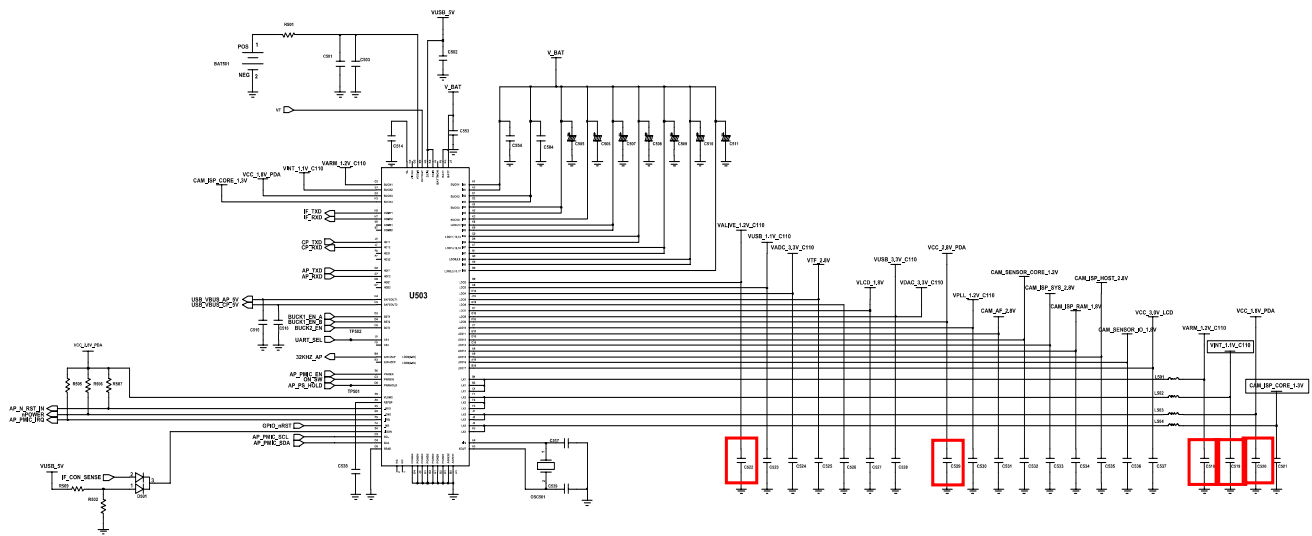
↑ Power Supply



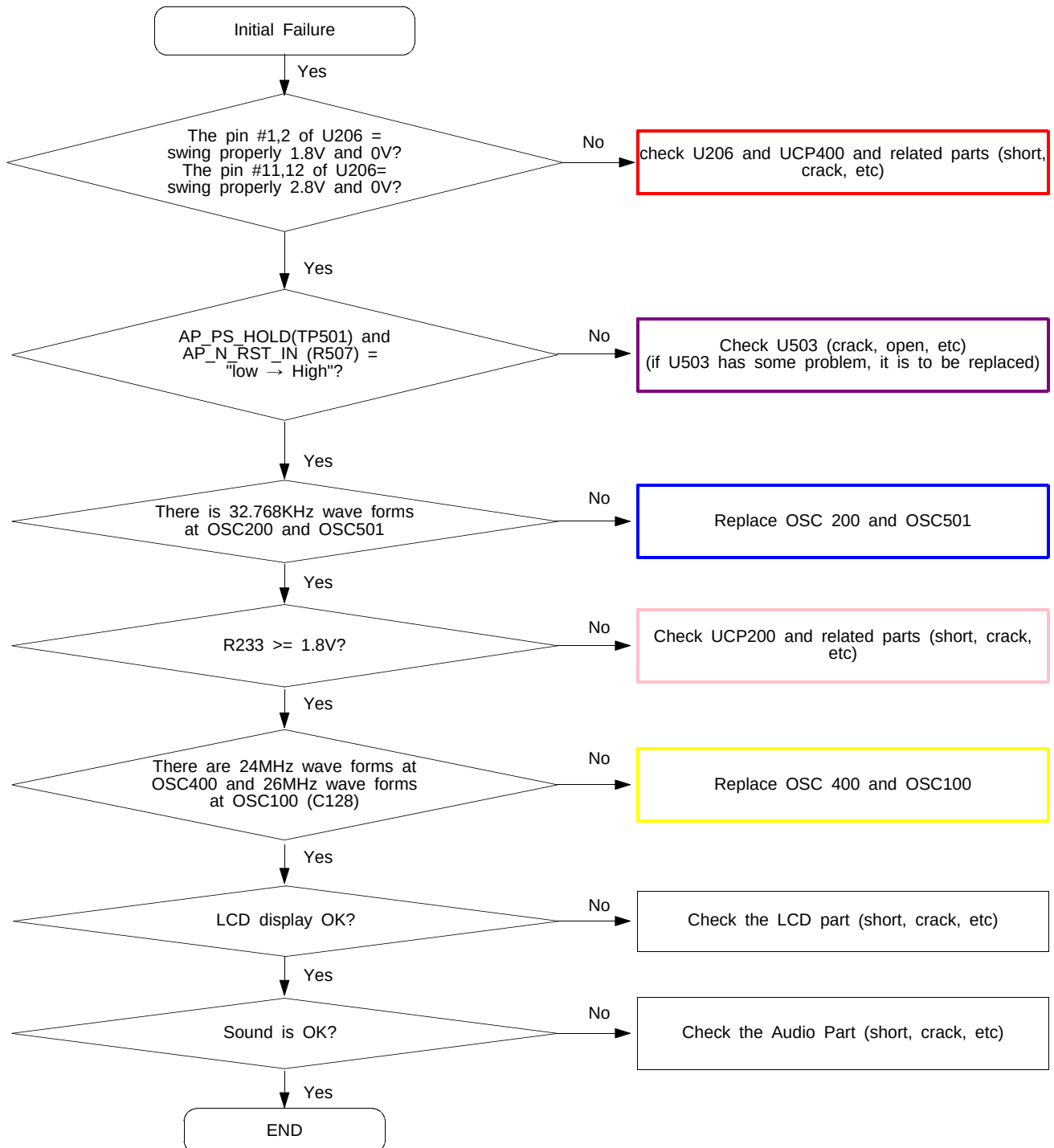
↑ + driver, Tweezer

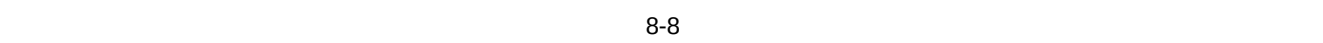
8-3-1. Power On



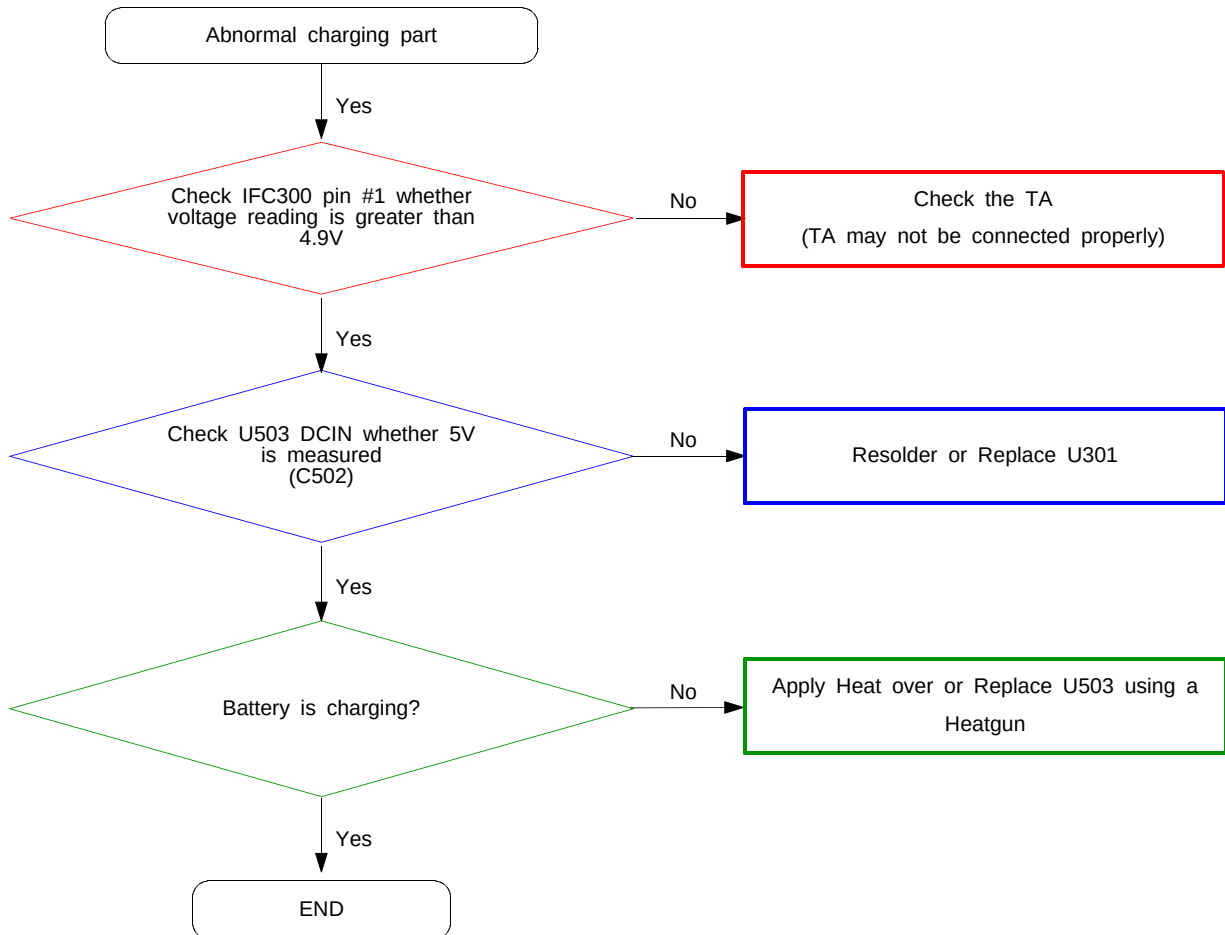


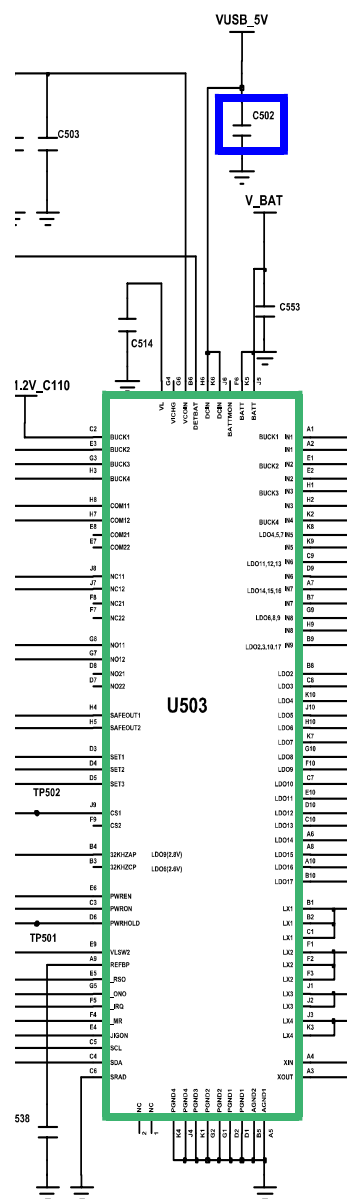
8-3-2. Initial



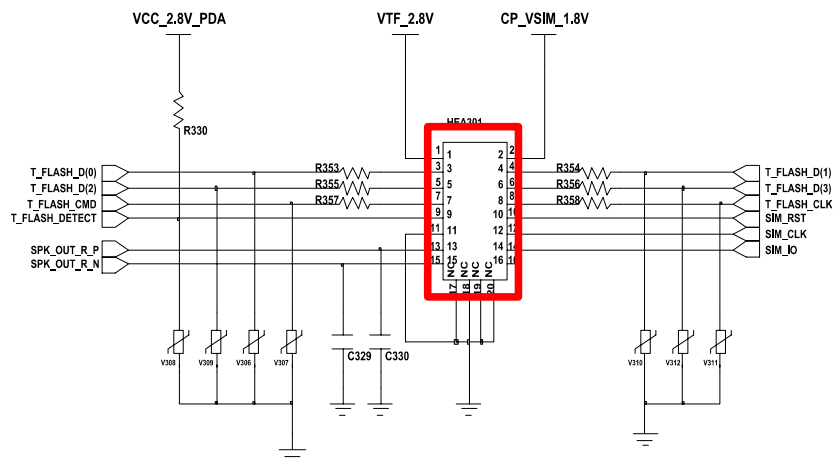
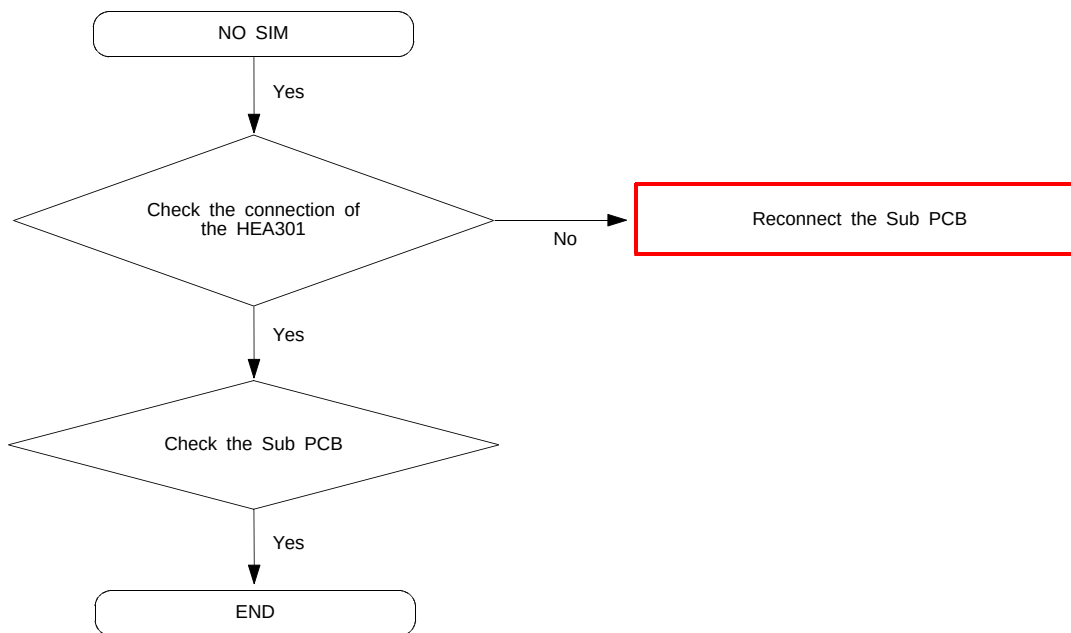


8-3-3. Charging Part

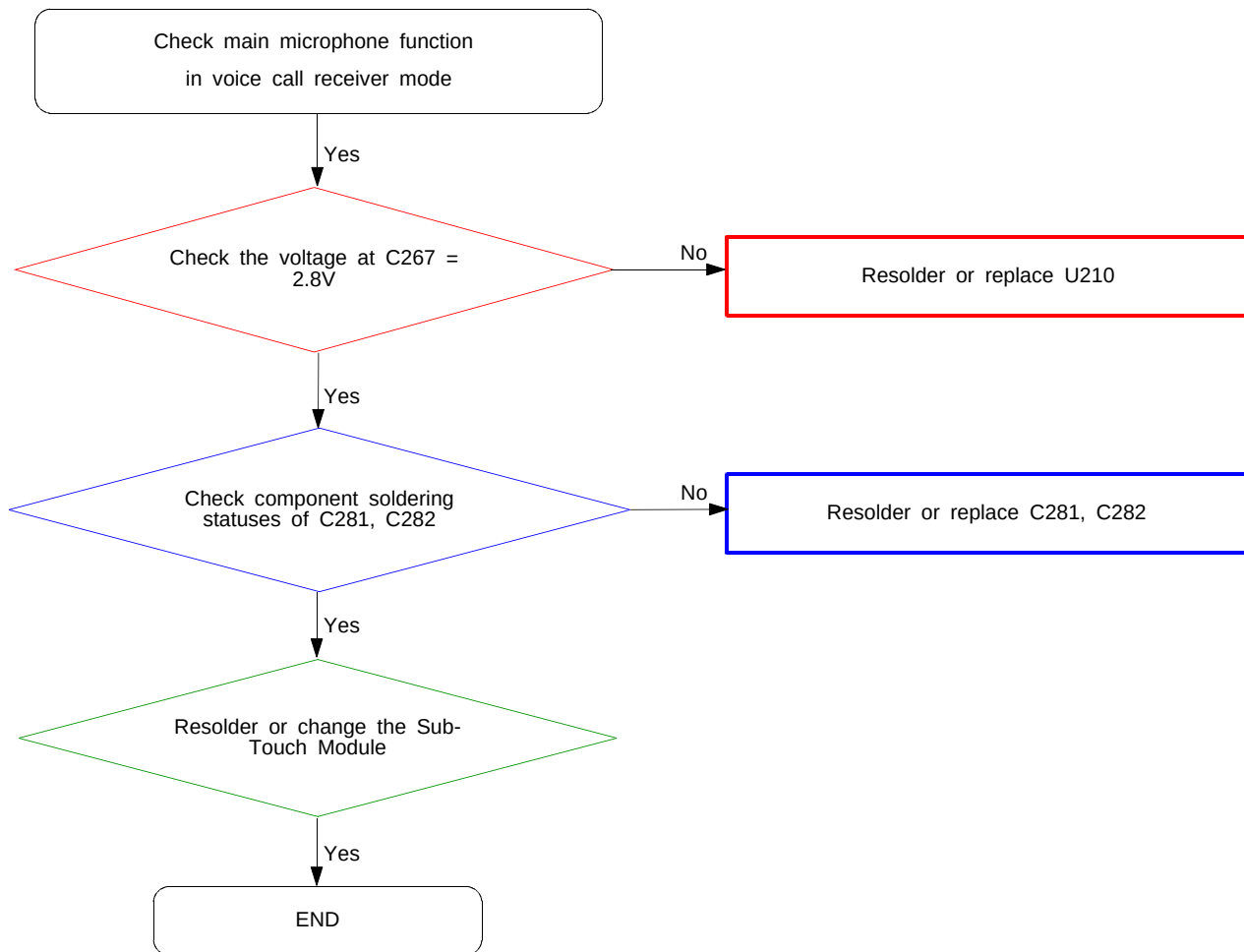


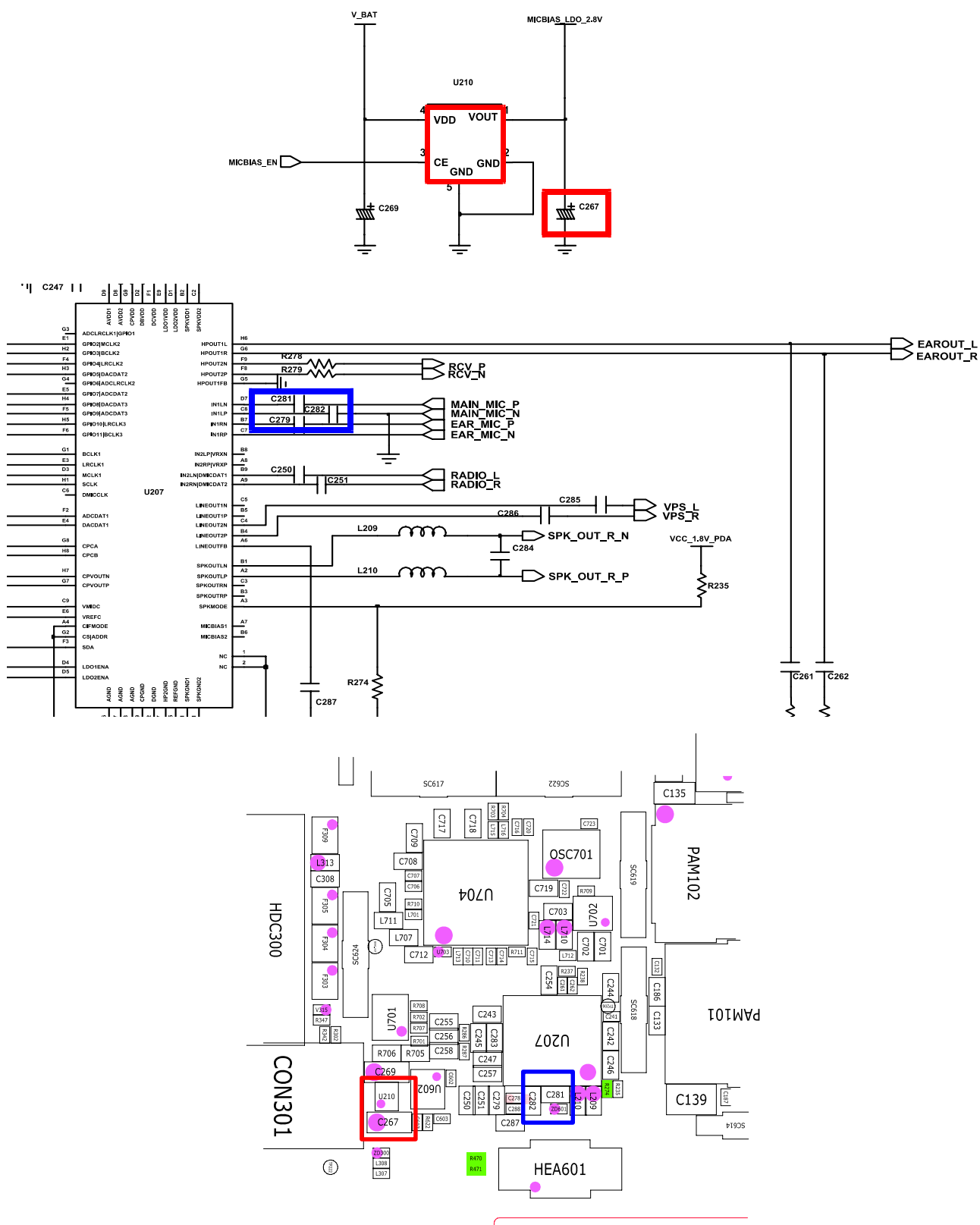


8-3-4. Sim Part

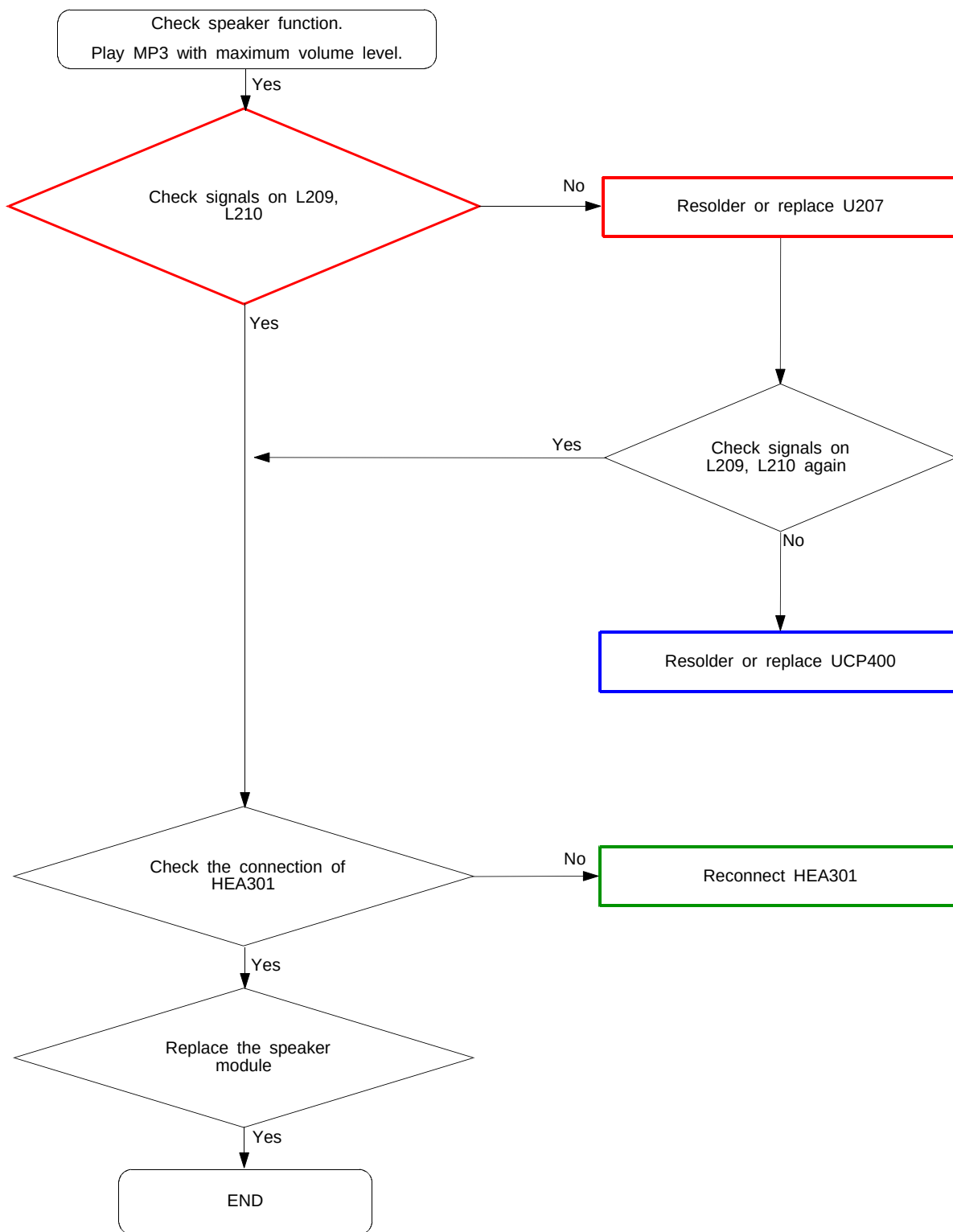


8-3-5. Microphone Part

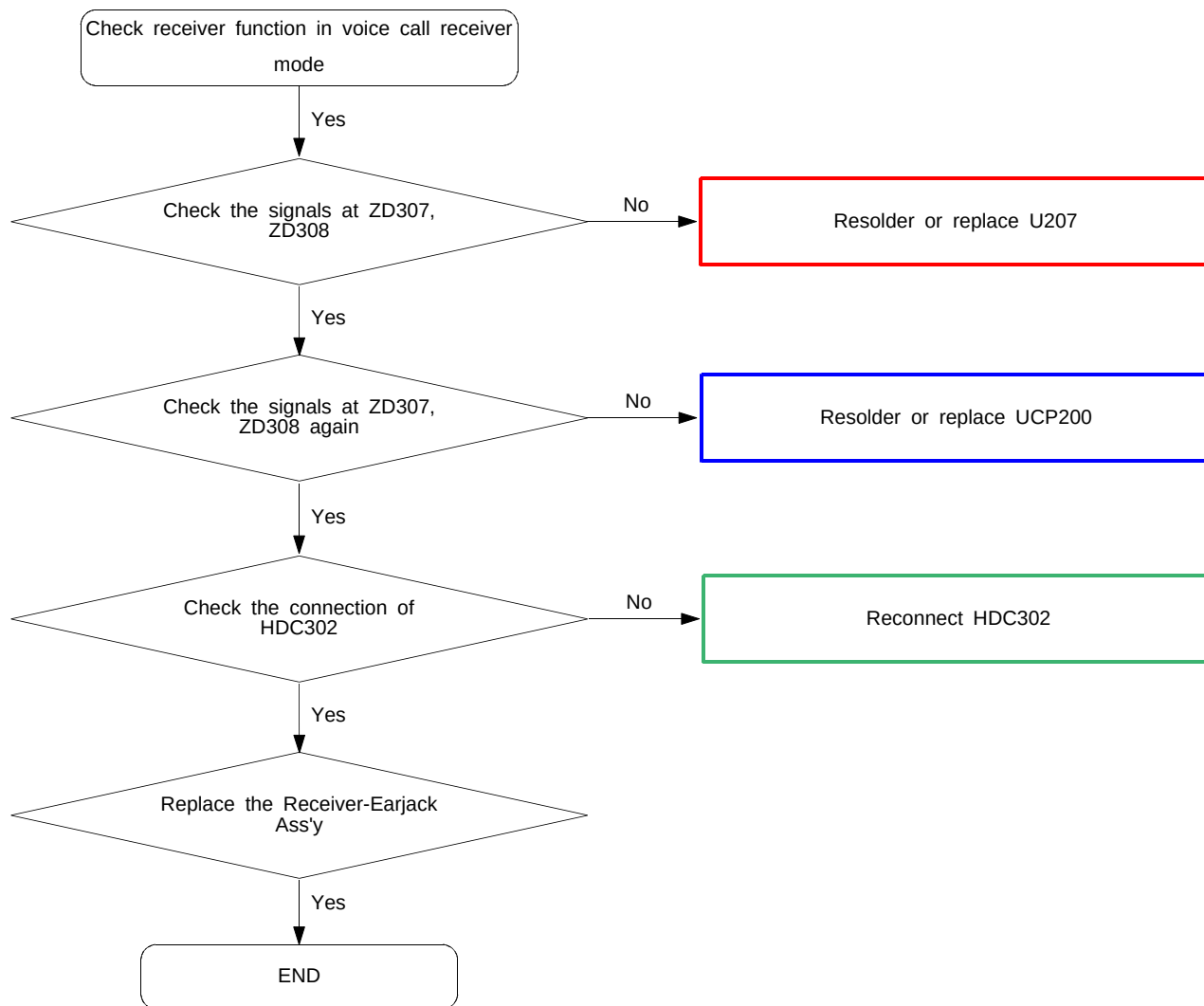




8-3-6. Speaker Part

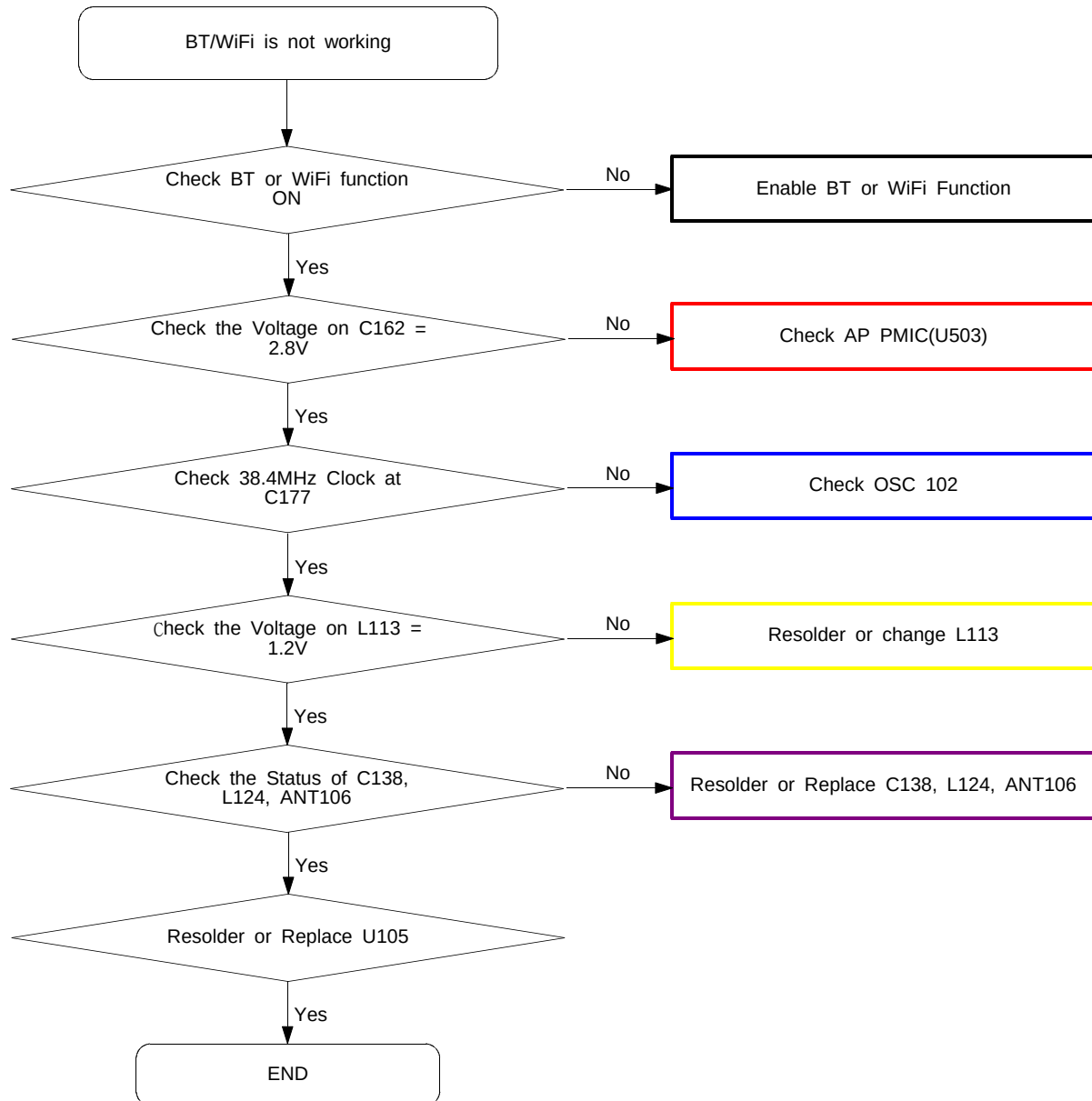


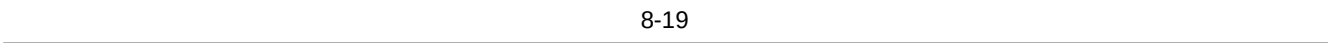
8-3-7. Receiver Part



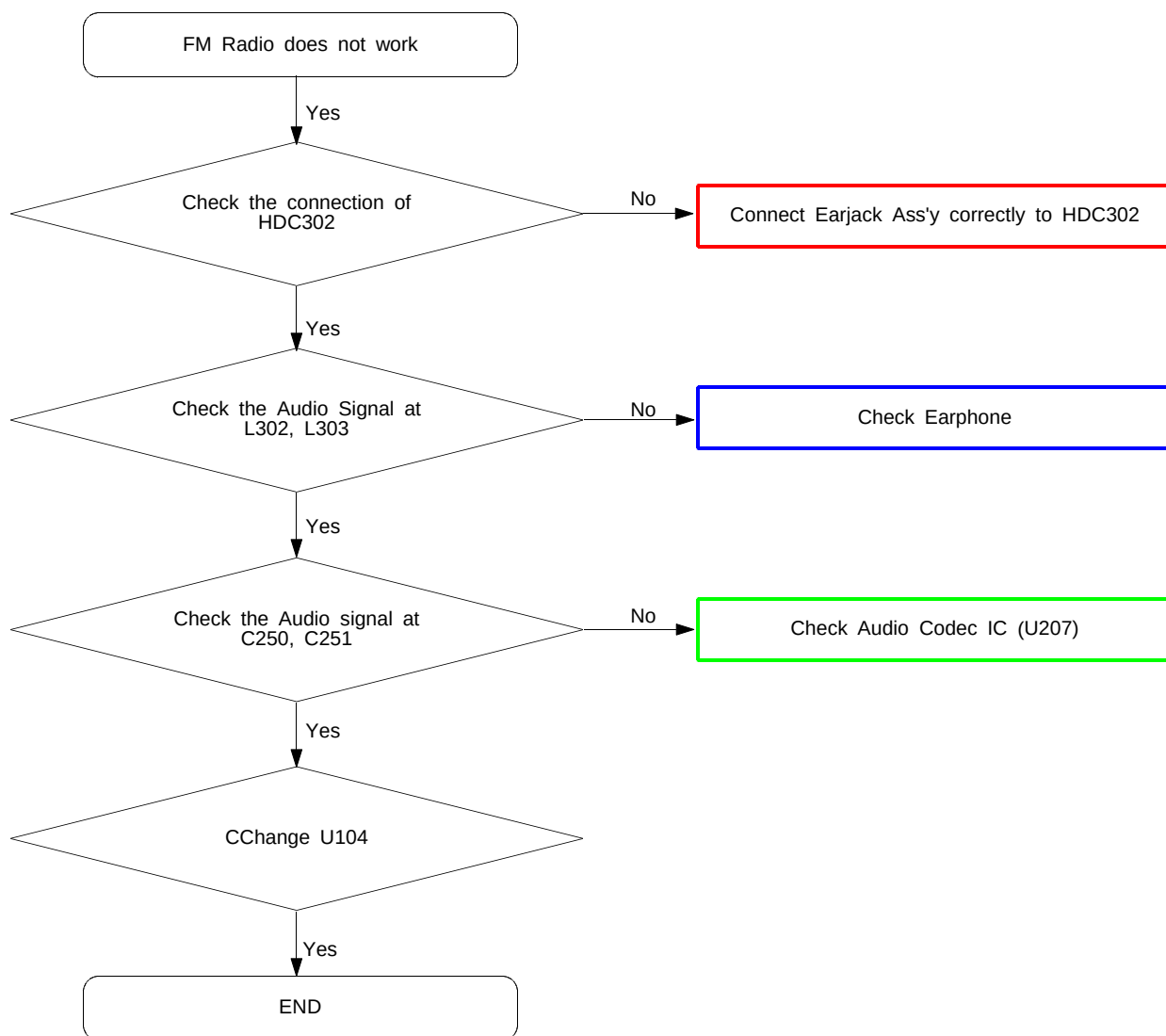


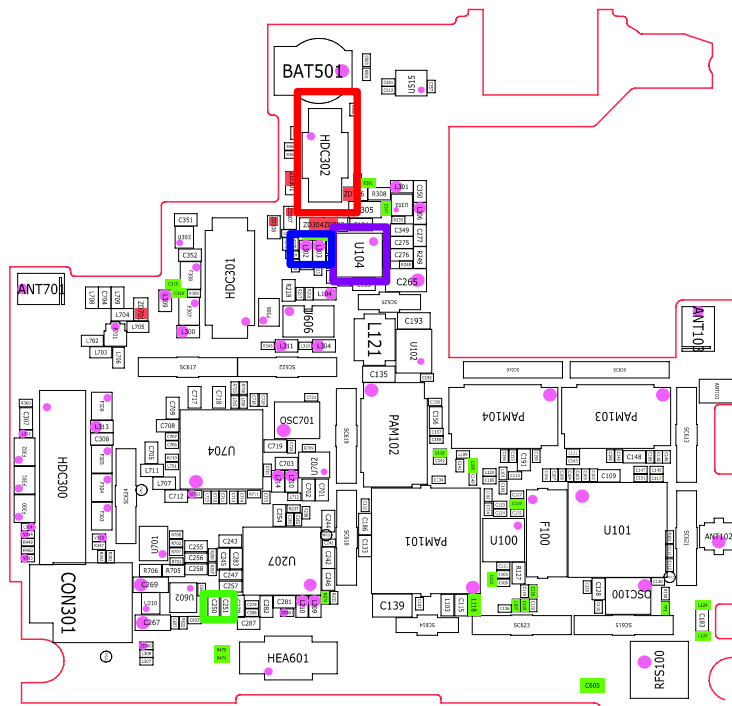
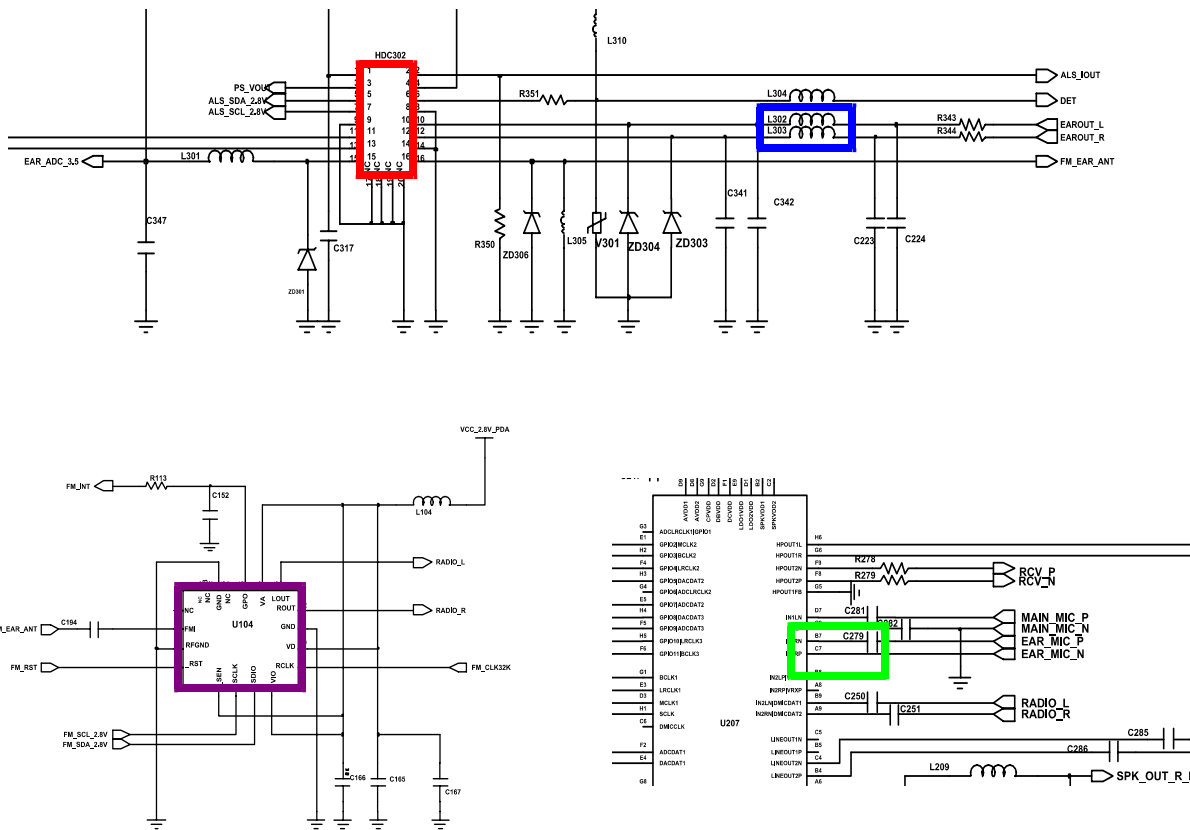
8-3-8. BT/WIFI



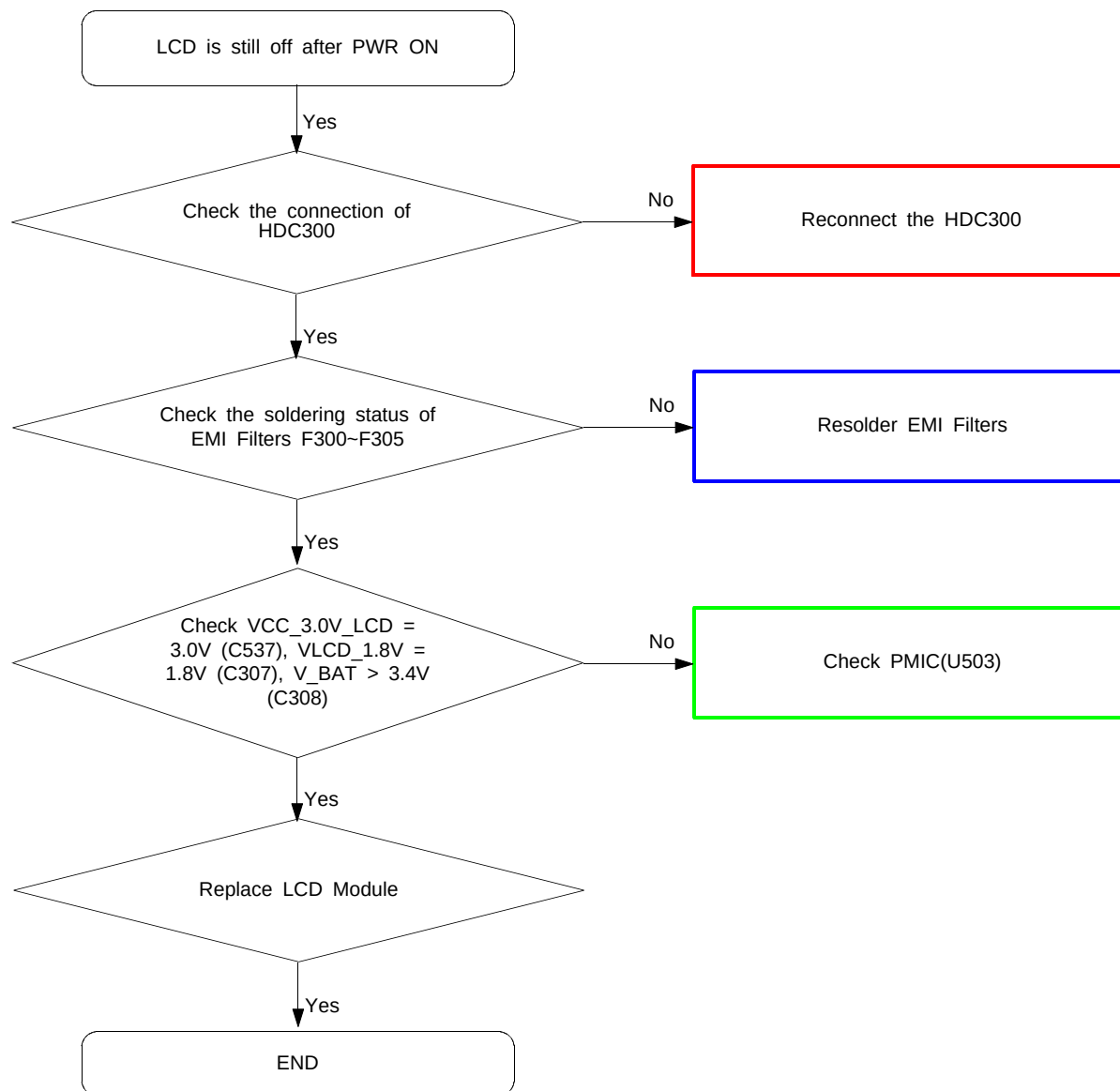


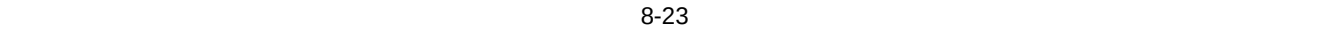
8-3-9. FM RADIO



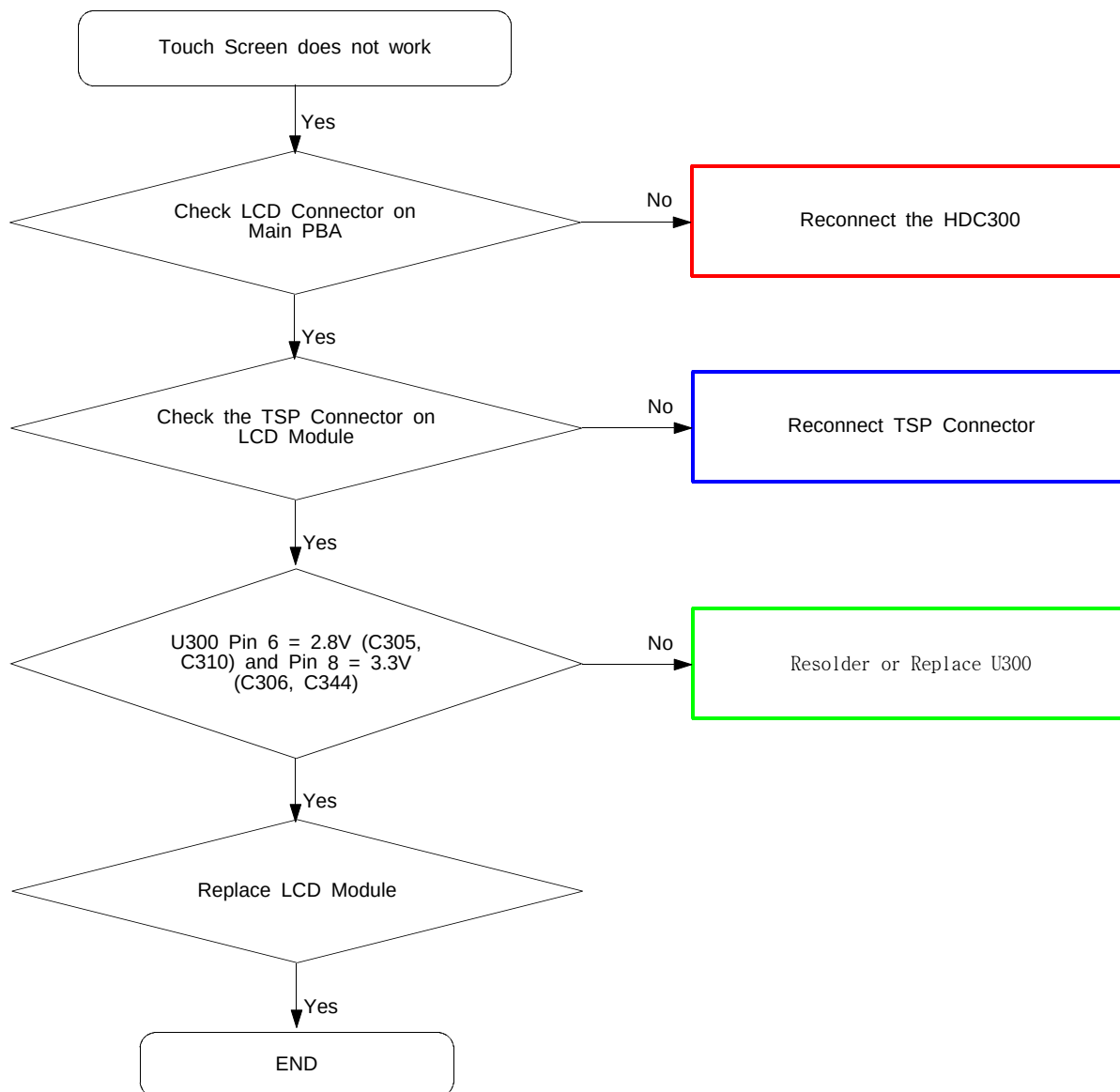


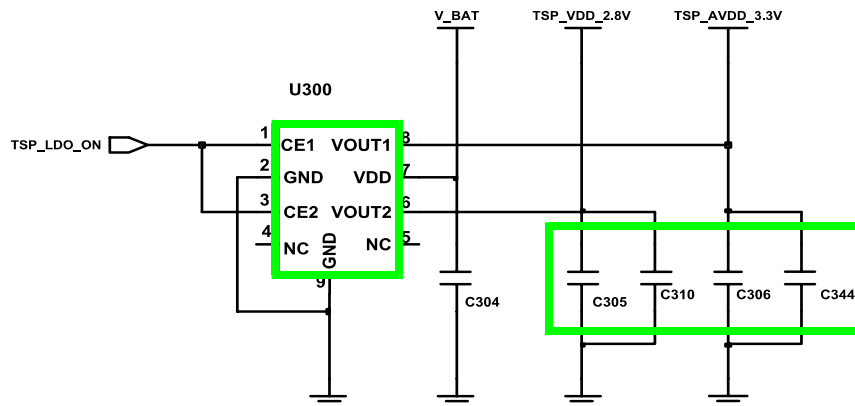
8-3-10. LCD



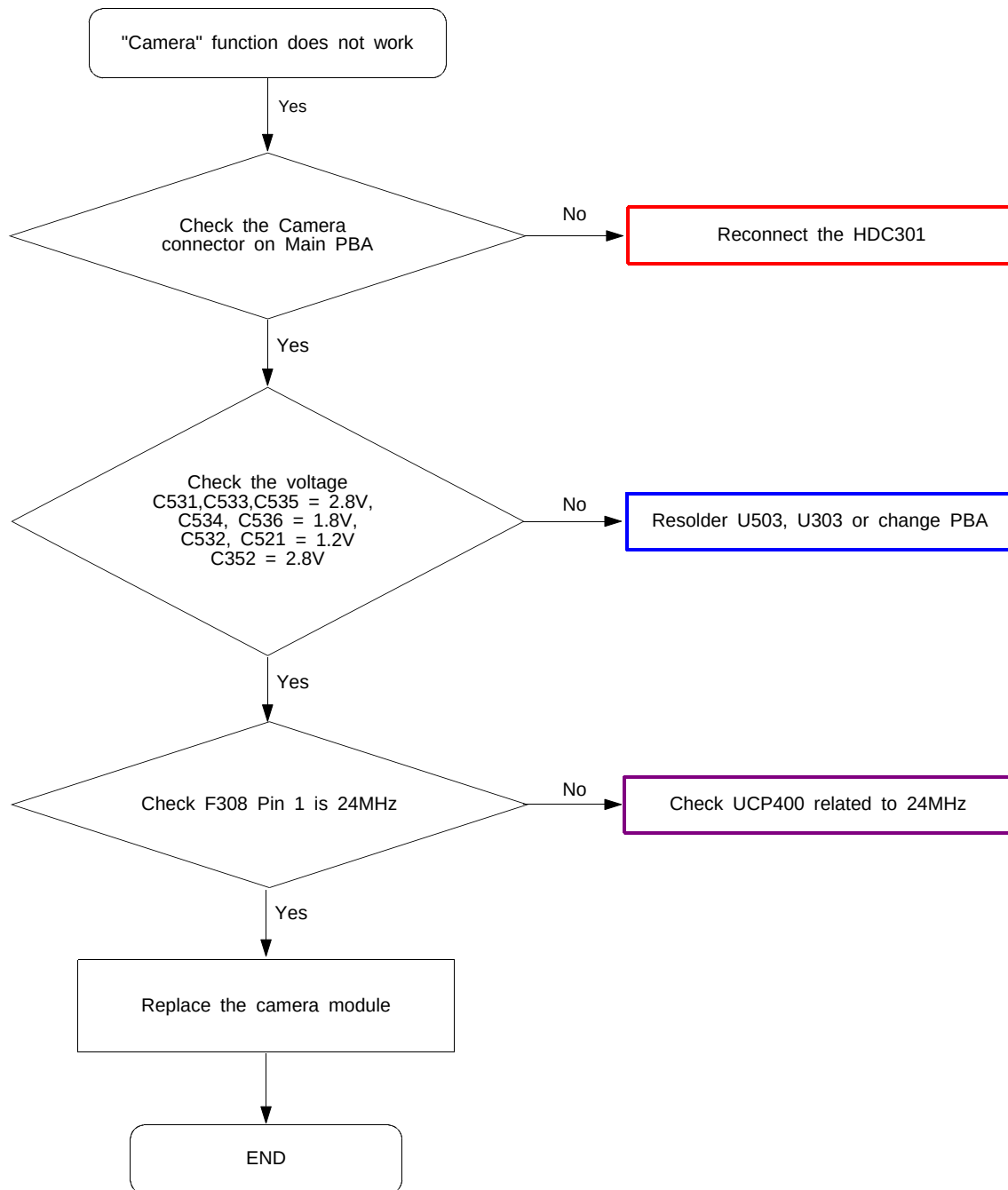


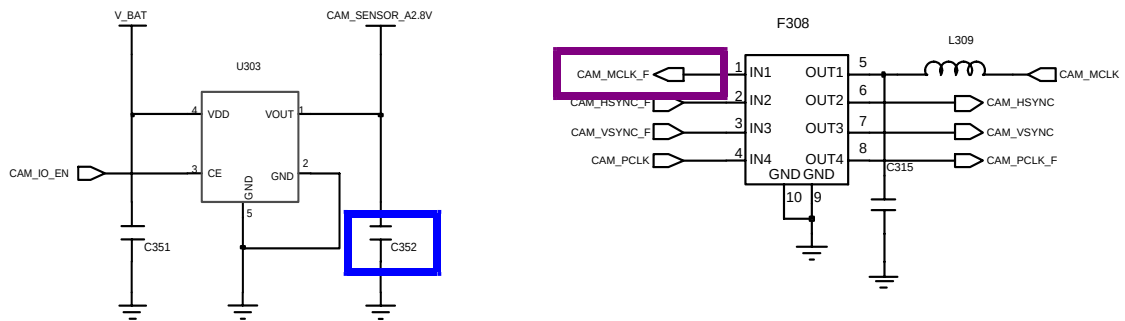
8-3-11. TSP



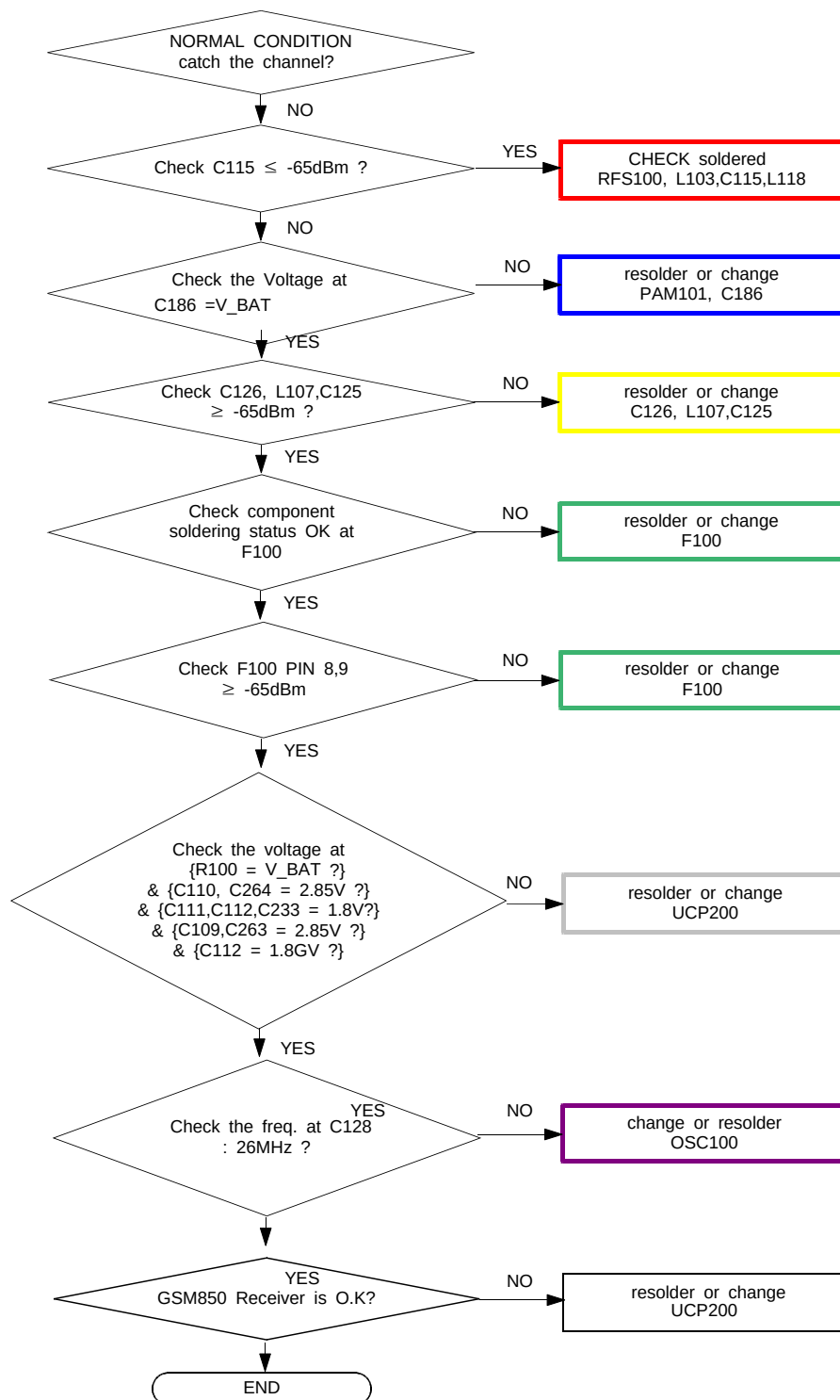


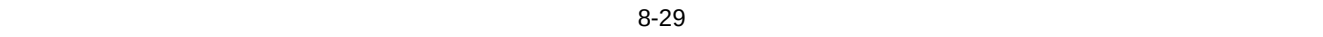
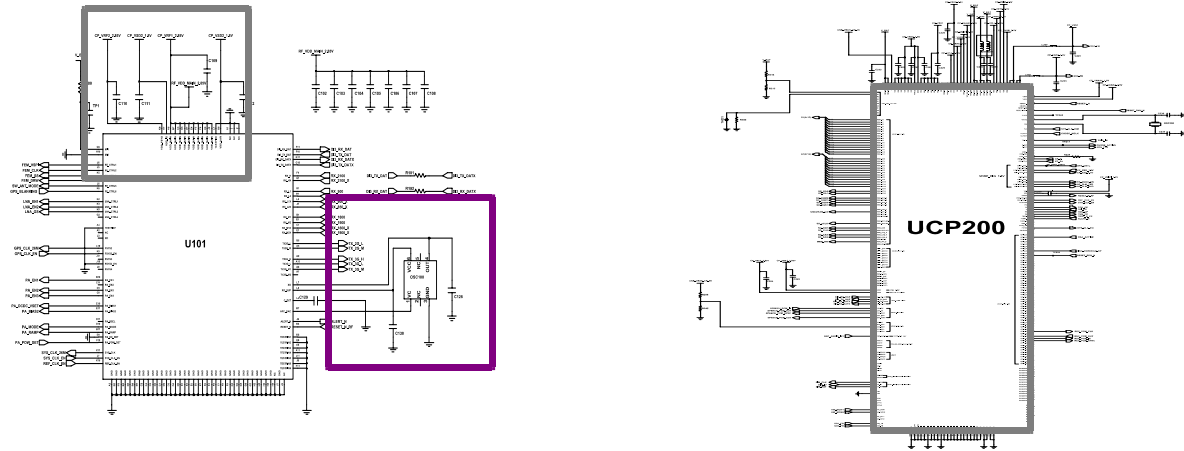
8-3-12. 5M CAM



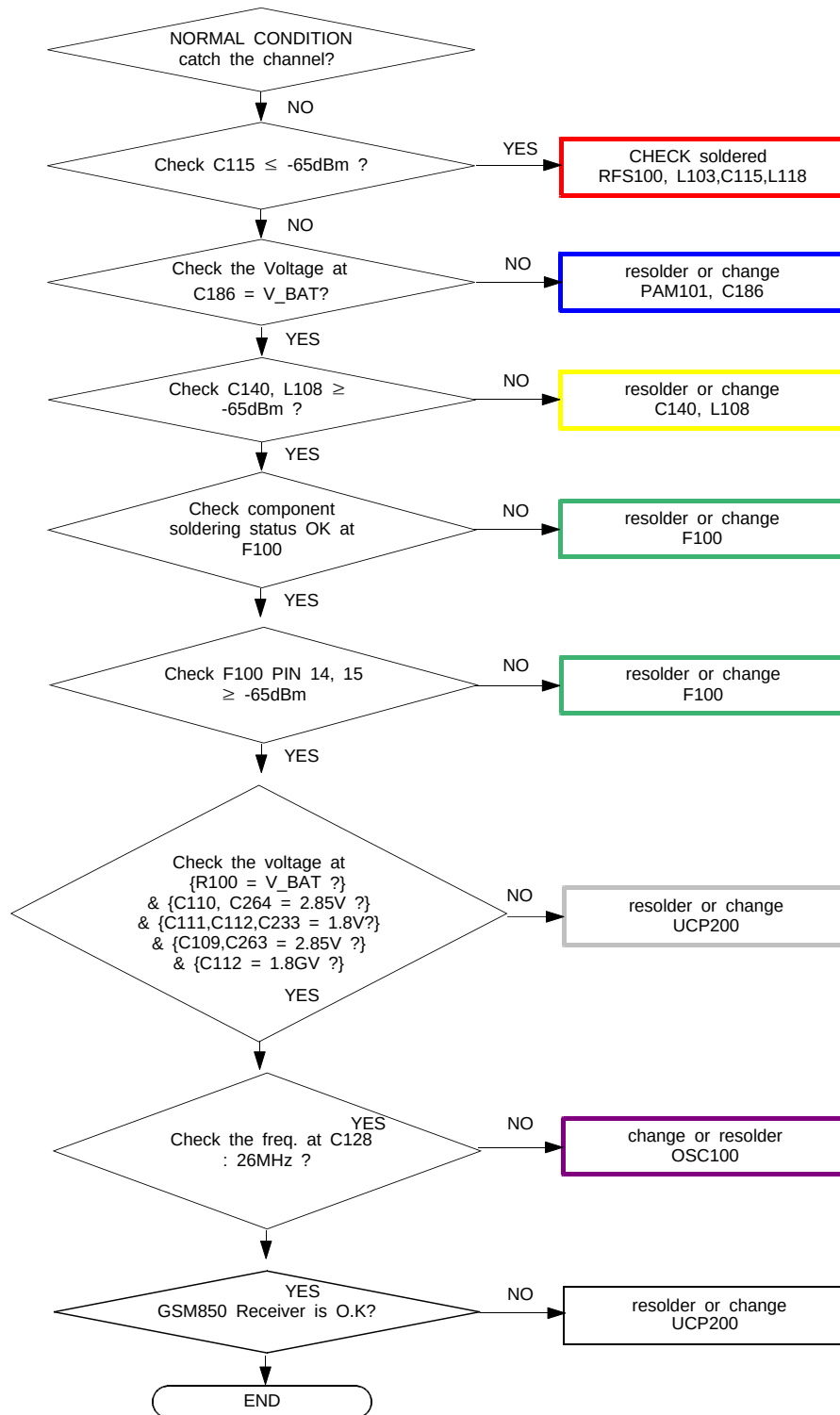


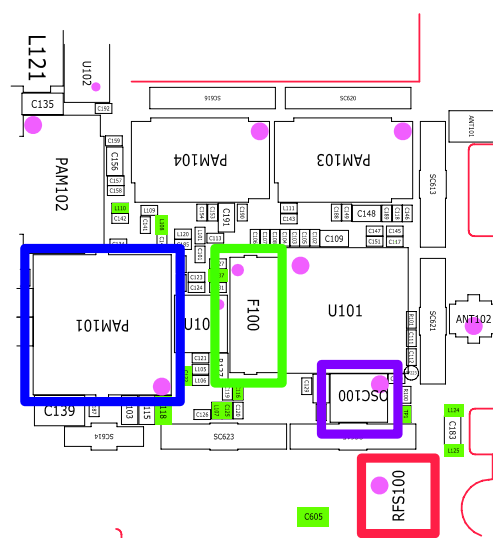
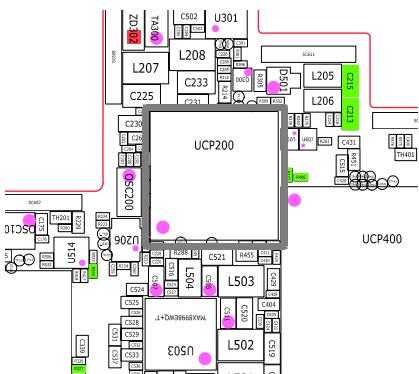
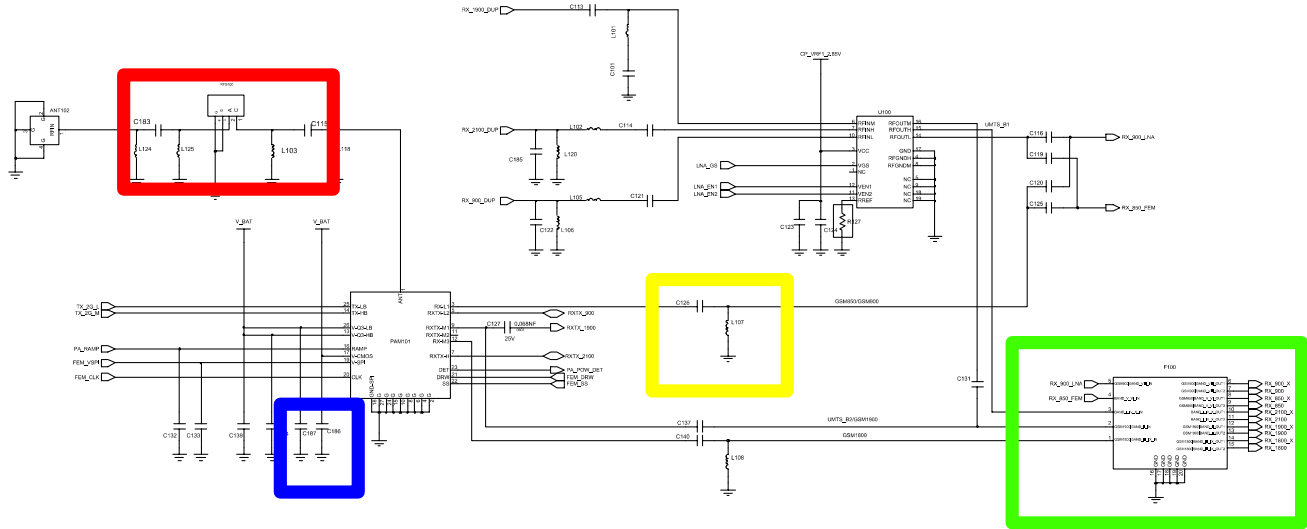
8-3-13. GSM900 RX



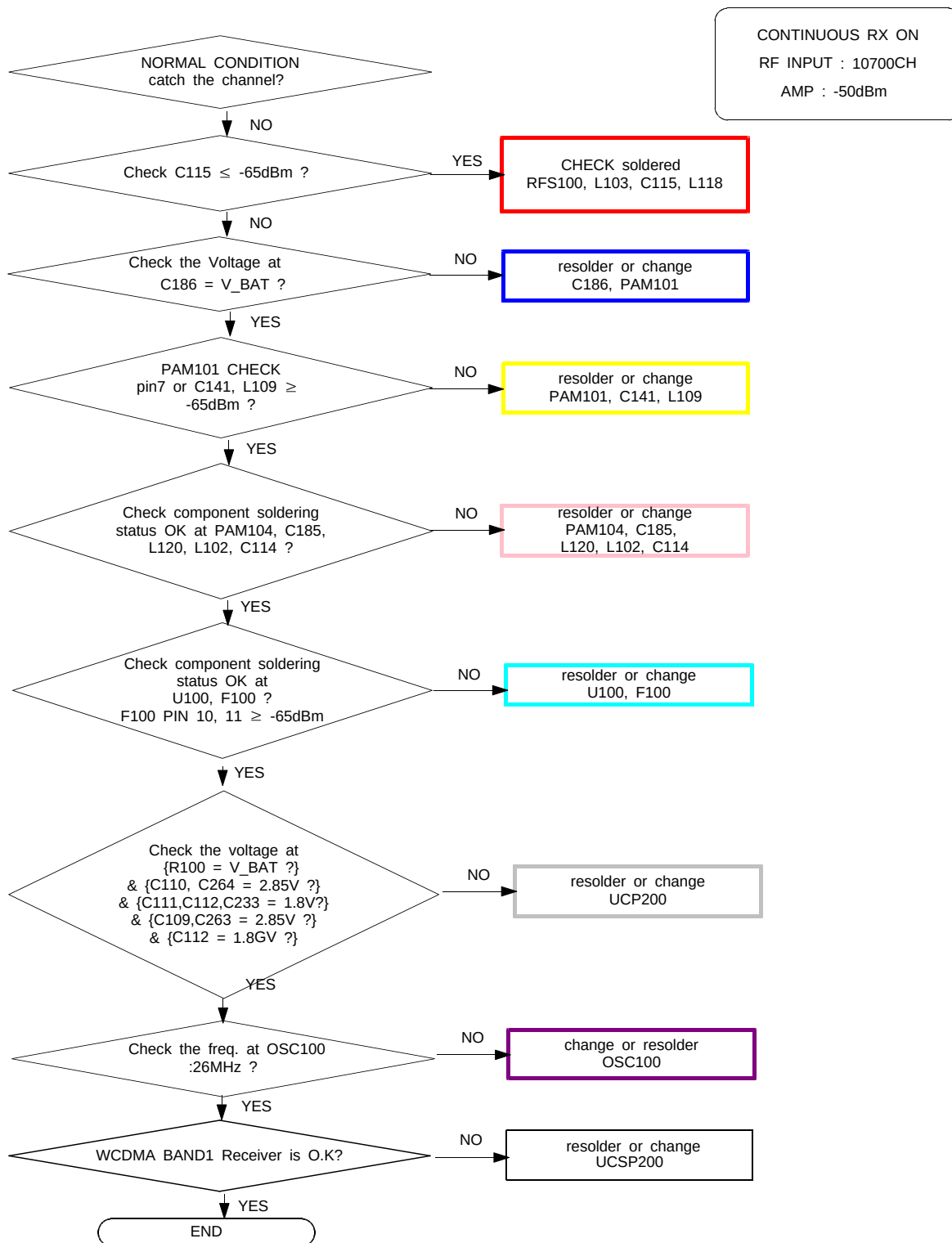


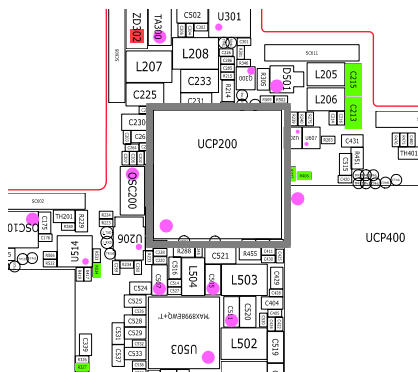
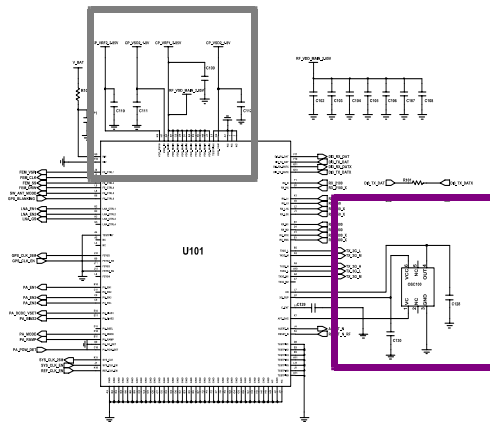
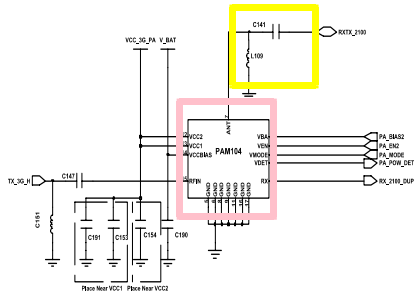
8-3-14. GSM1800 RX



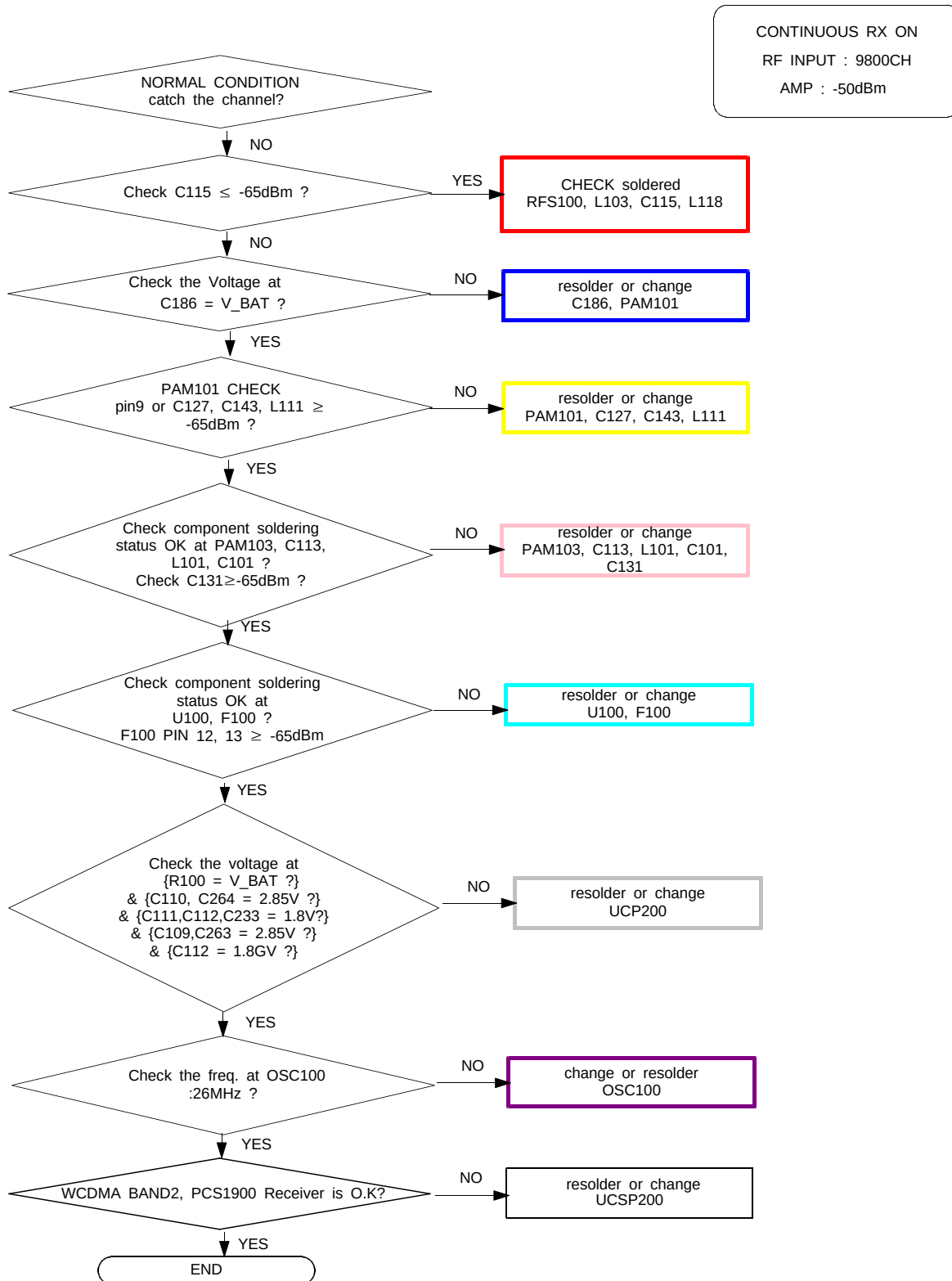


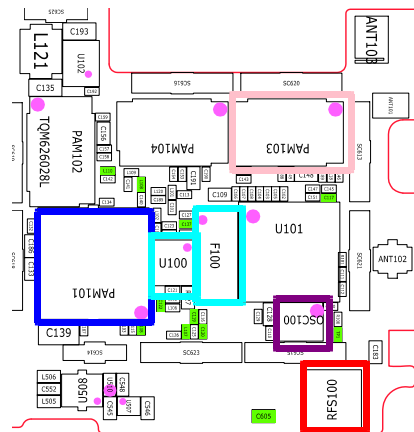
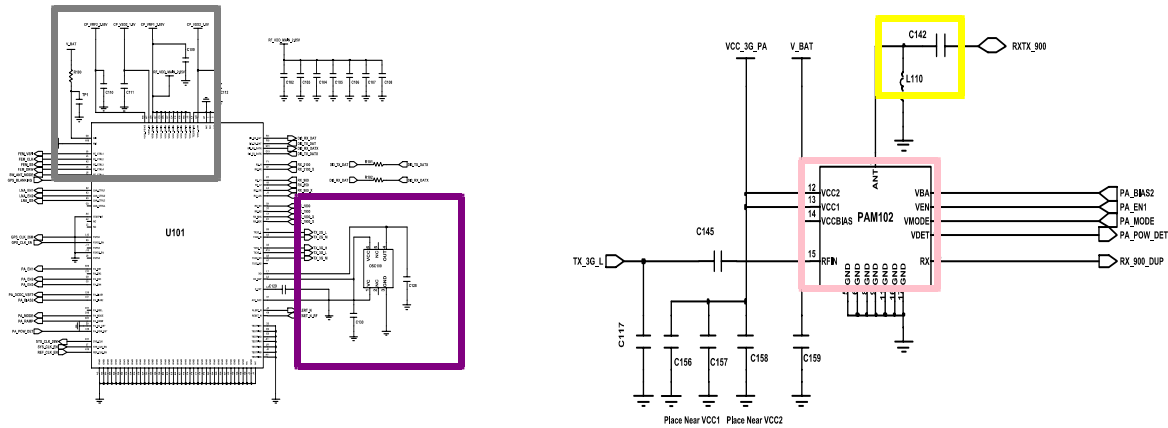
8-3-15. WCDMA Band1 RX



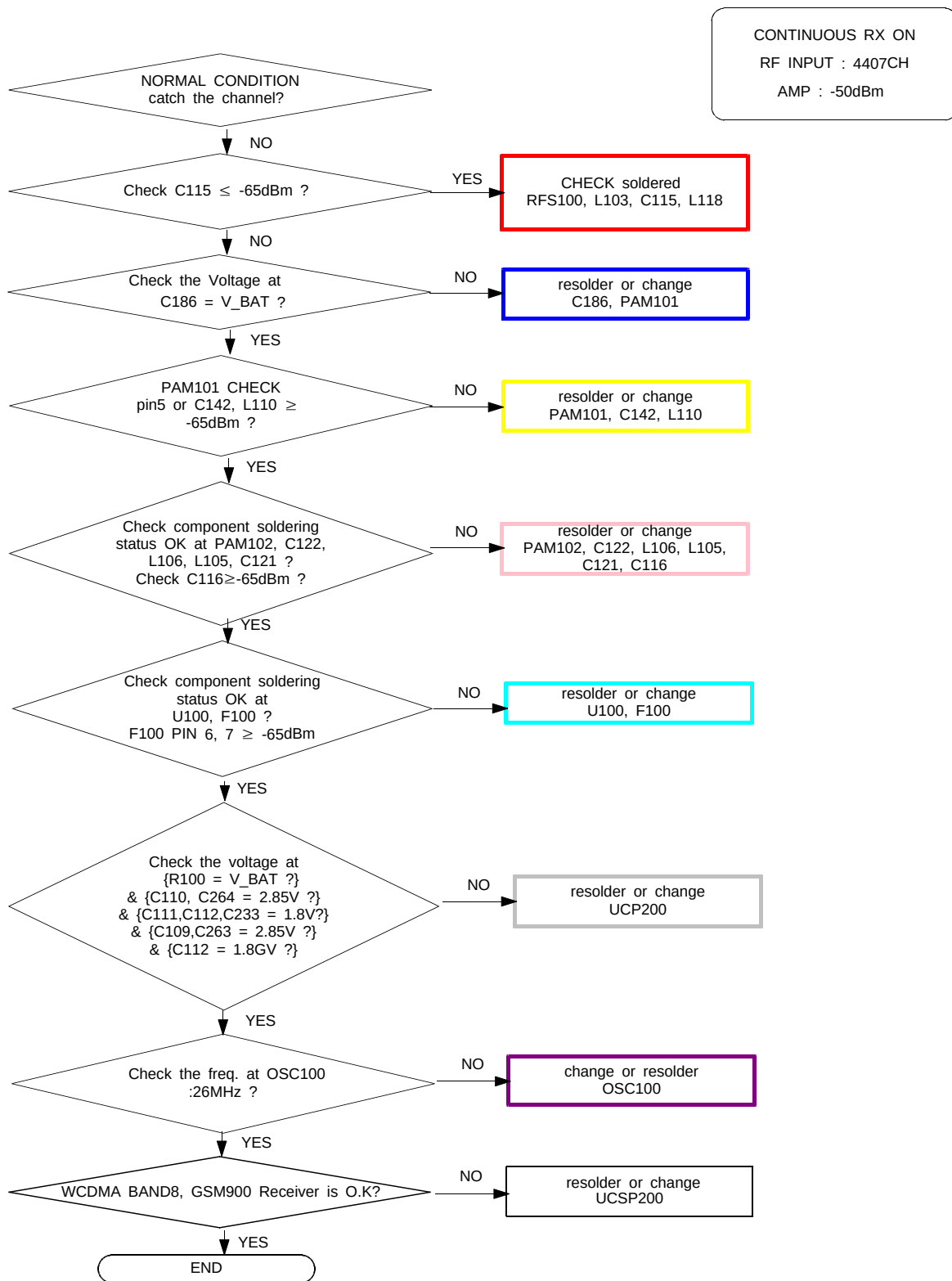


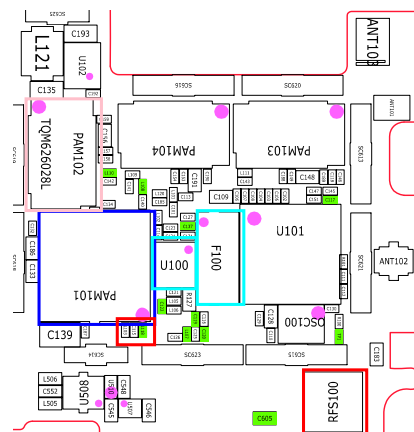
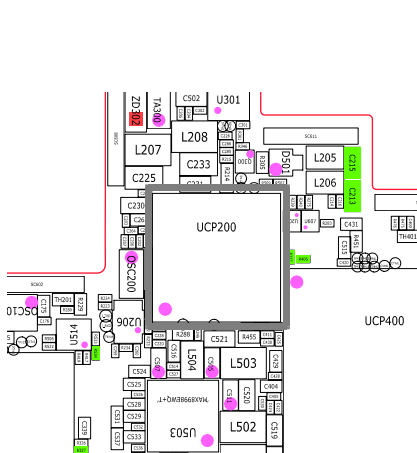
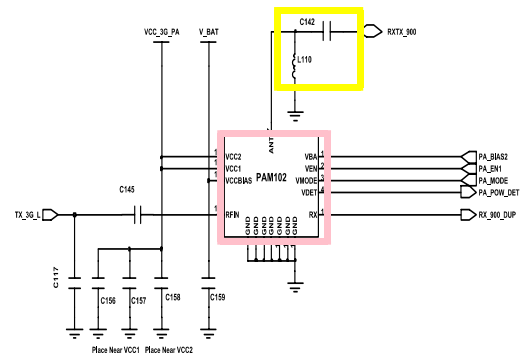
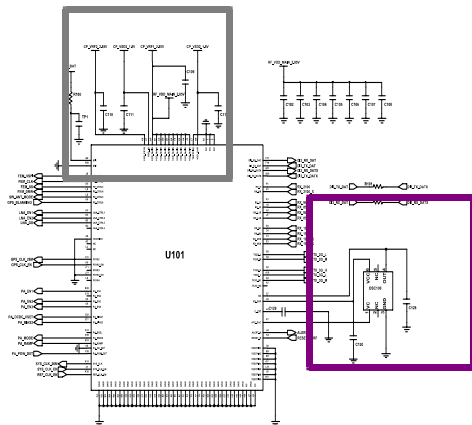
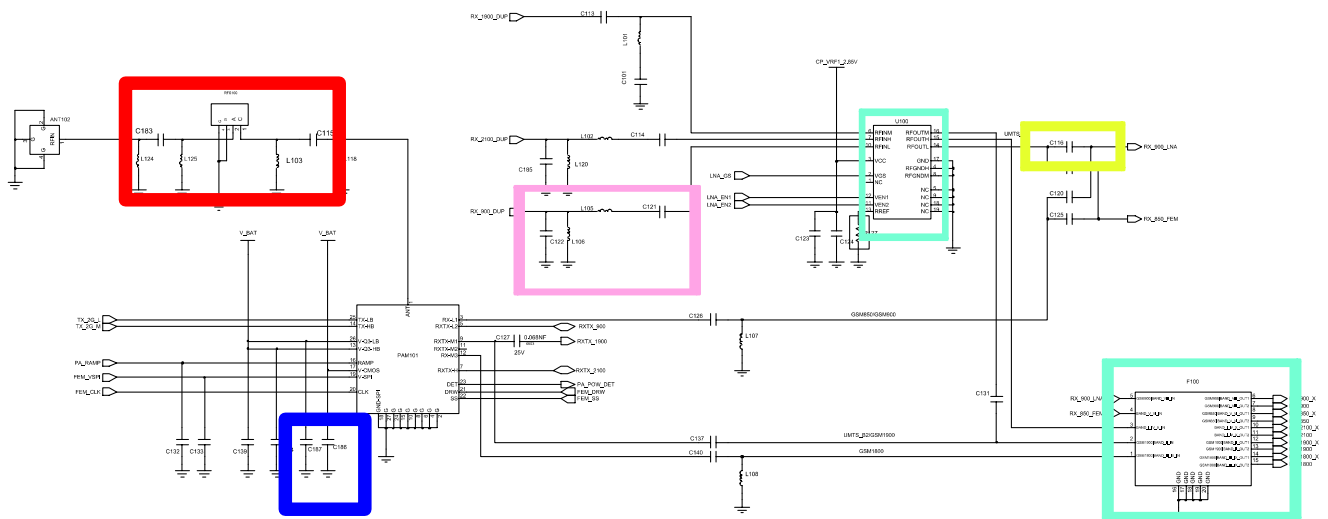
8-3-16. WCDMA Band2 / GSM1900 RX





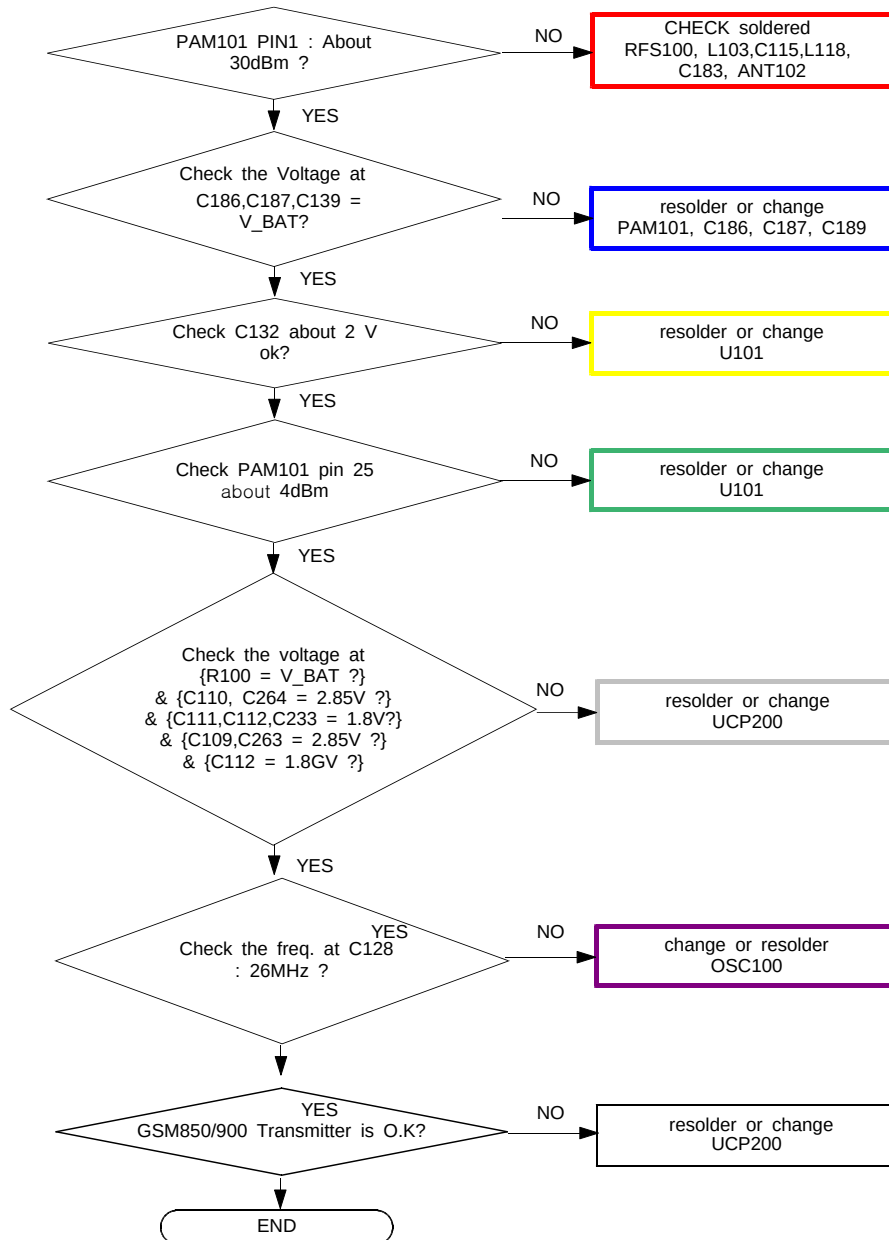
8-3-17. WCDMA Band5 / GSM850 RX





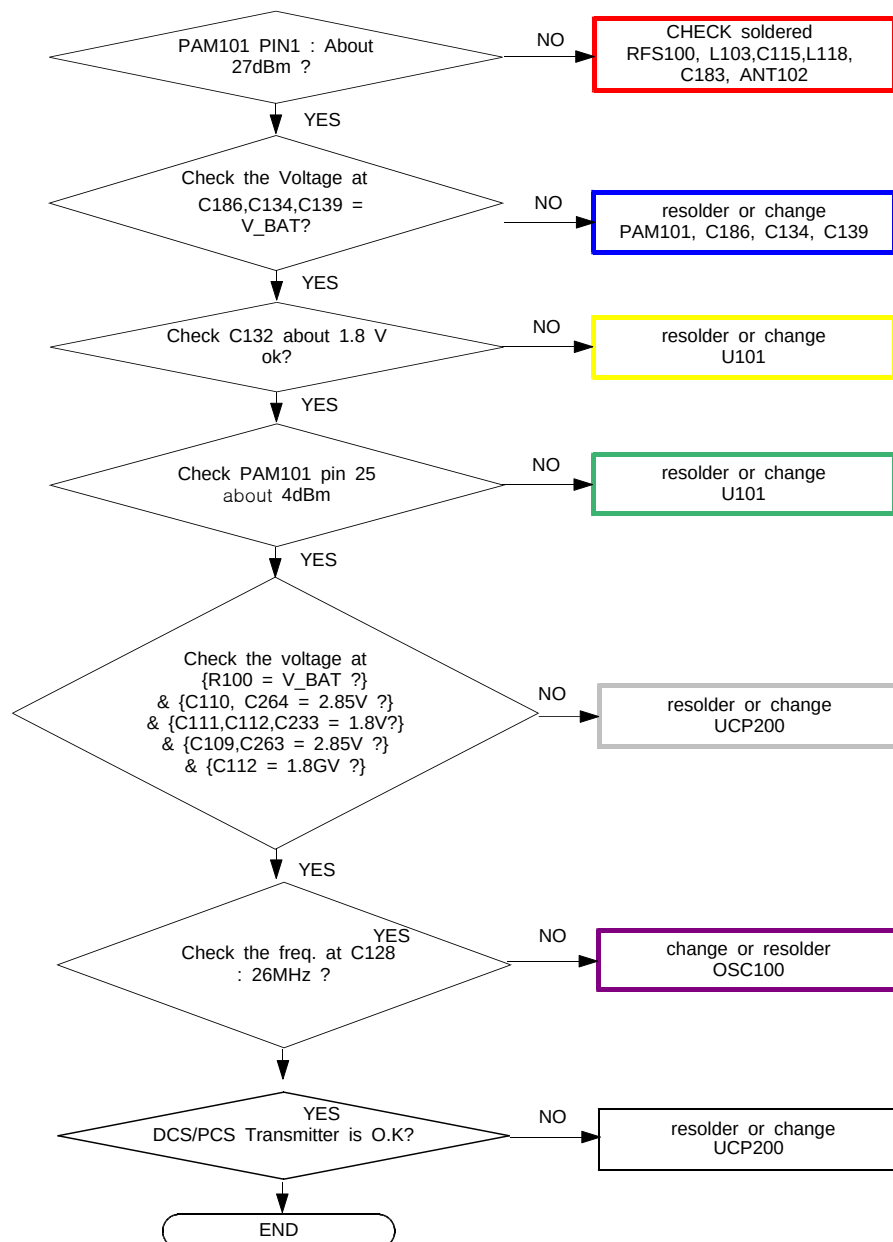
8-3-18. GSM850/GSM900 TX

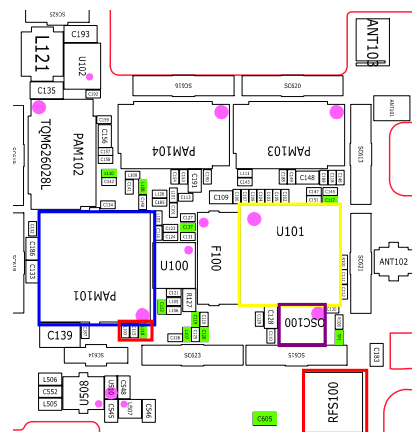
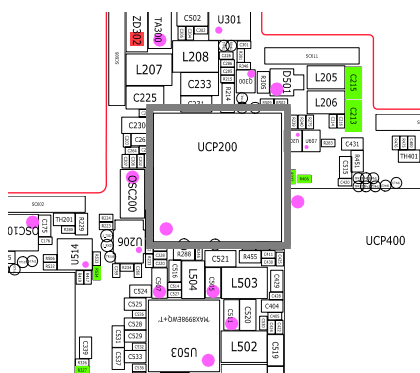
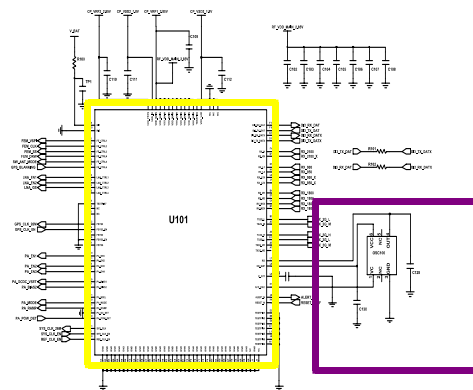
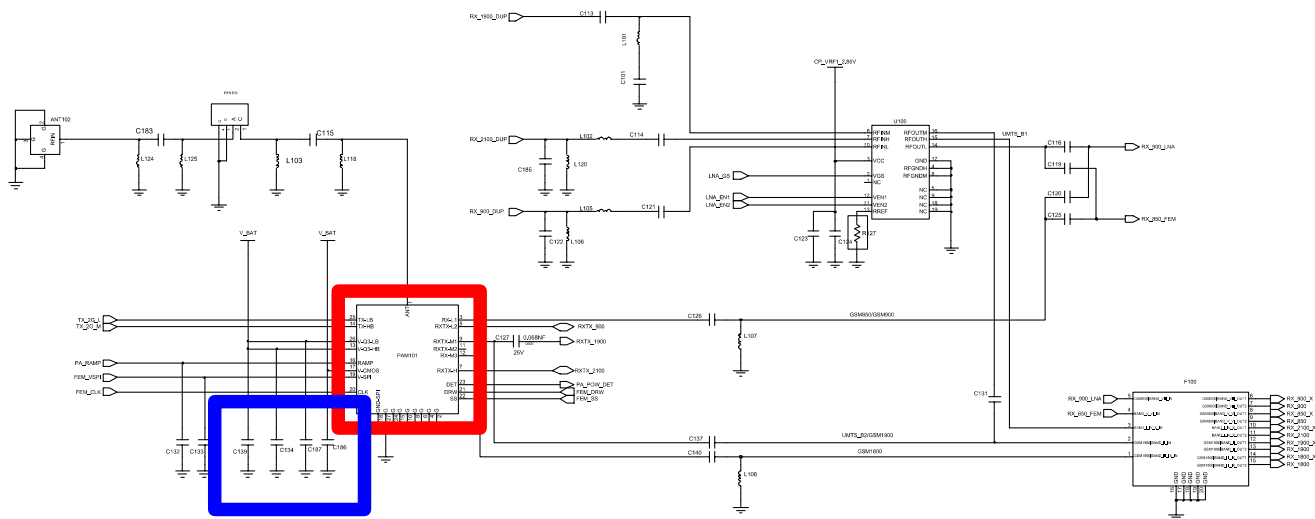
CONTINUOUS TX ON CONDITION
TX POWER DAC:14500 CODE
APPLIED
GSM850 CH : 190
GSM900 CH : 62
RBW : 100KHz
VBW : 100KHz
SPAN : 10MHz
REF LEV. : 10dBm
ATT. : 20dB



8-3-19. DCS/PCS TX

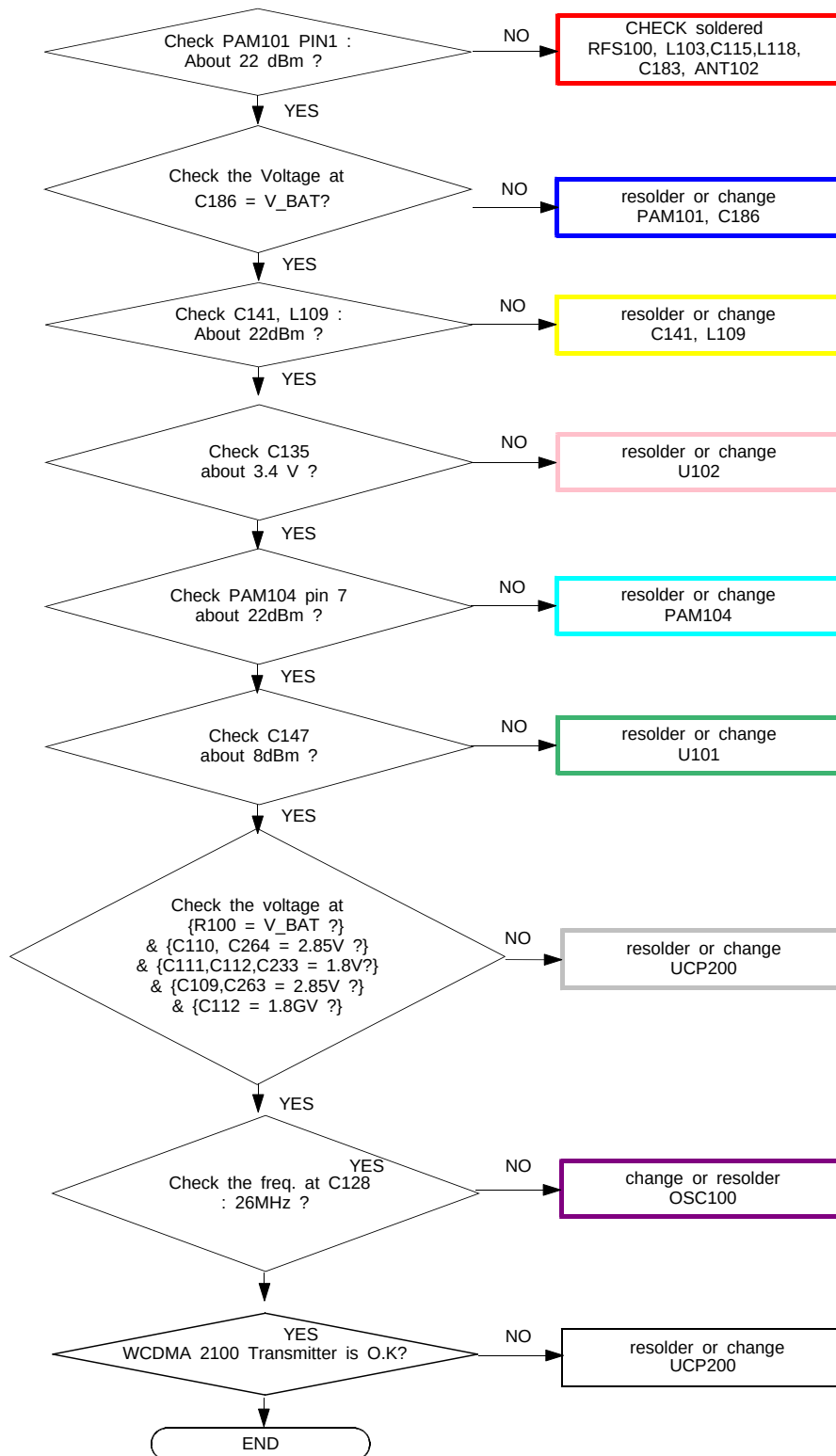
CONTINUOUS TX ON CONDITION
TX POWER DAC:14500 CODE
APPLIED
GSM850 CH : 190
GSM900 CH : 62
RBW : 100KHz
VBW : 100KHz
SPAN : 10MHz
REF LEV. : 10dBm
ATT. : 20dB

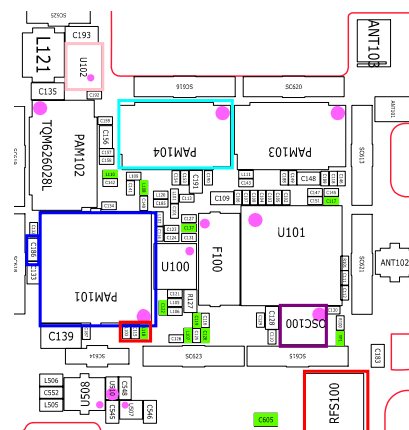
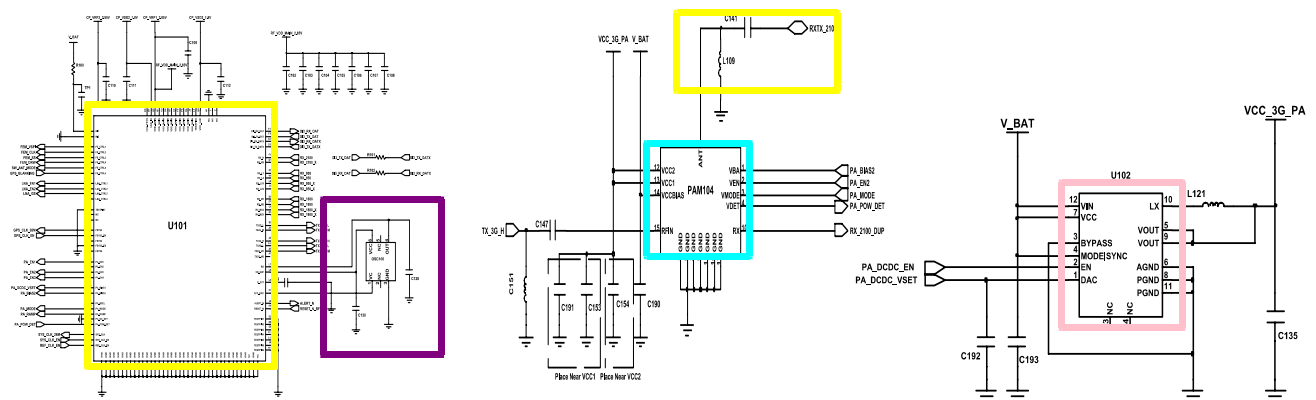




8-3-20. WCDMA BAND1 TX

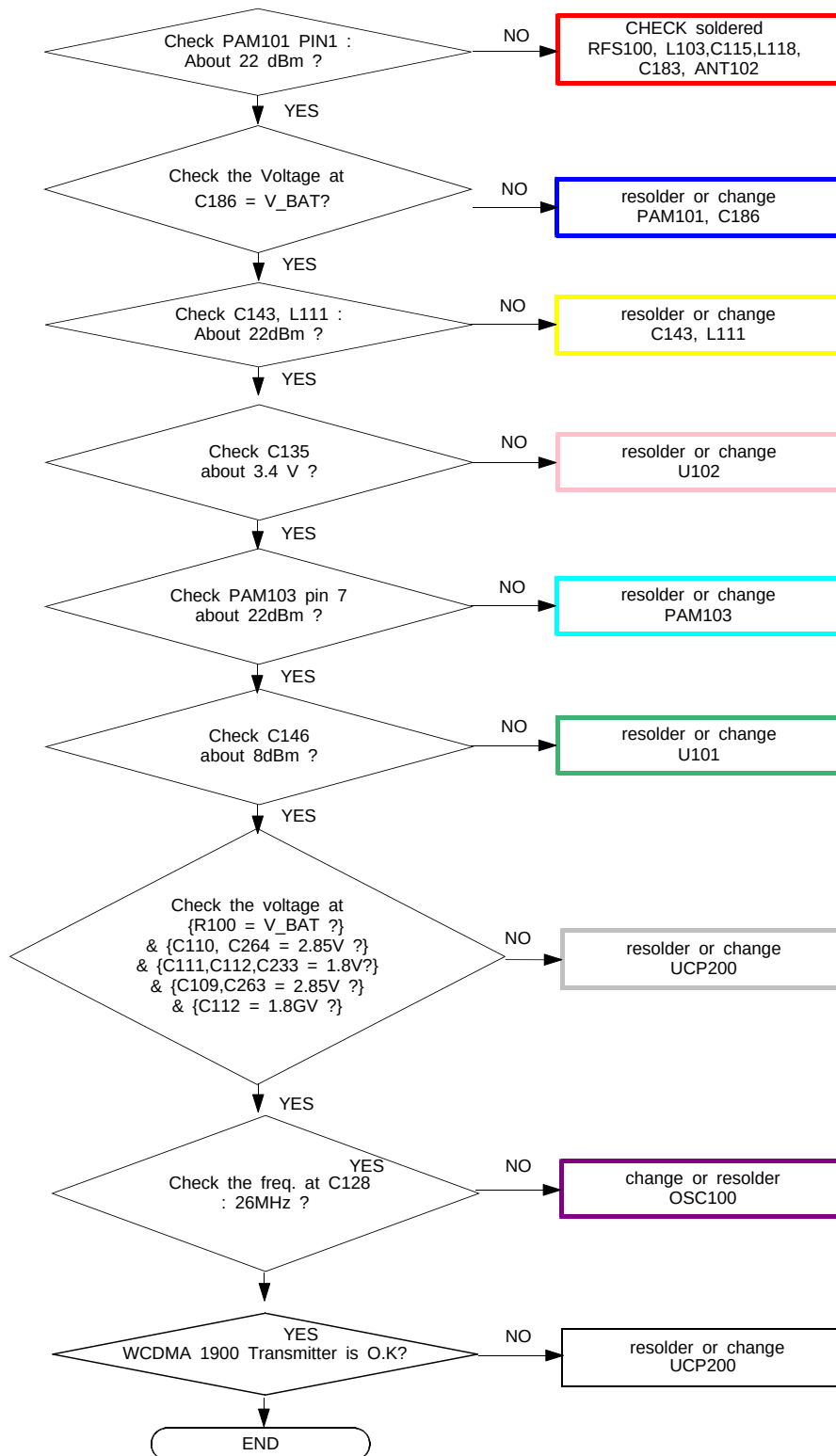
CONTINUOUS TX ON CONDITION
TX POWER DAC:14500 CODE
APPLIED
GSM850 CH : 190
GSM900 CH : 62
RBW : 100KHz
VBW : 100KHz
SPAN : 10MHz
REF LEV. : 10dBm
ATT. : 20dB

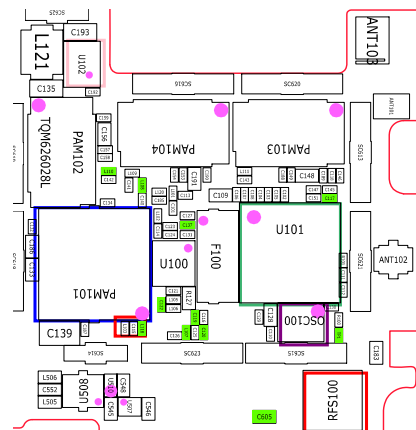
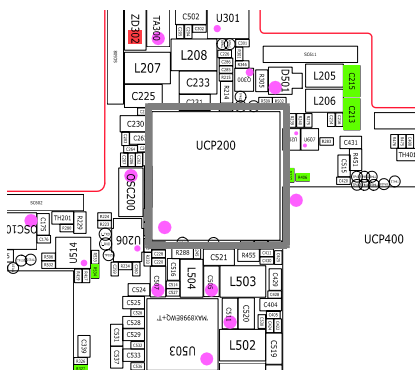
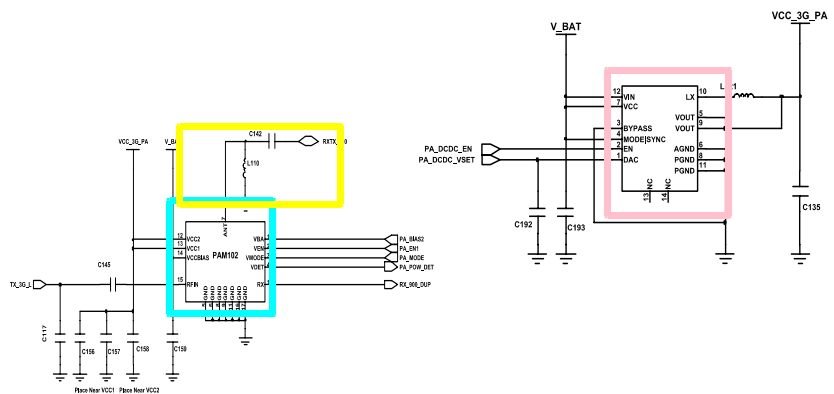
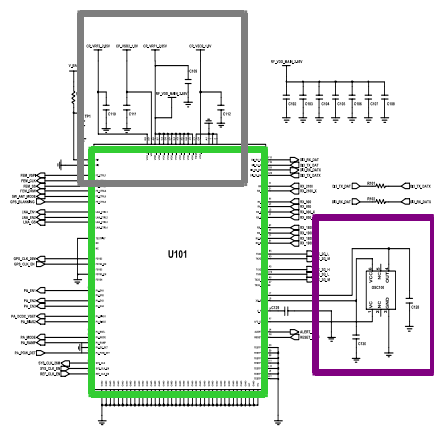
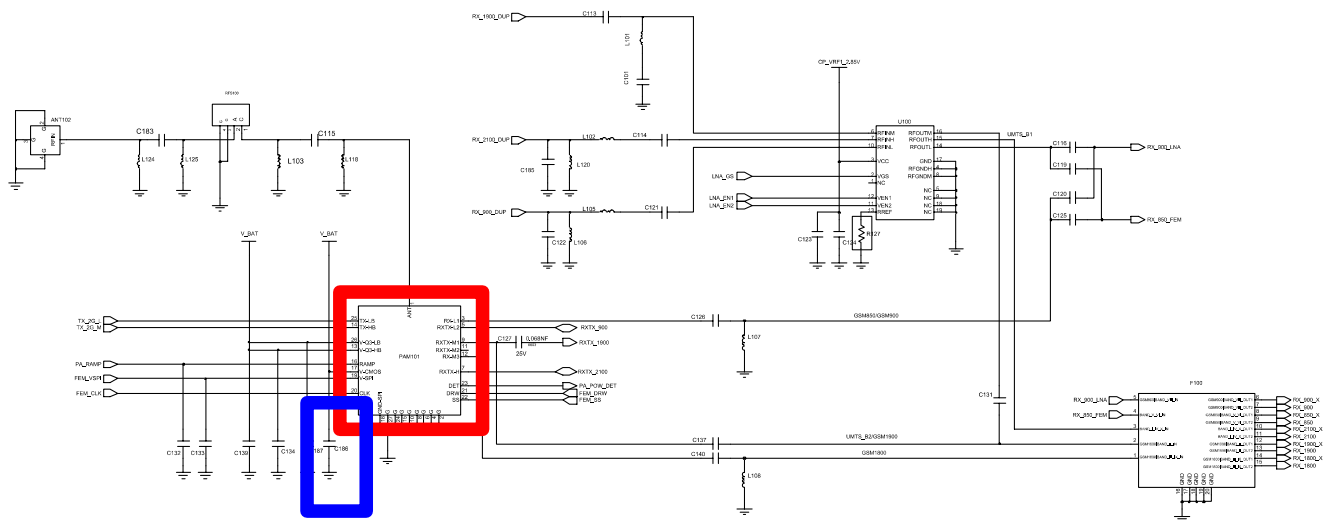




8-3-21. WCDMA BAND2 TX

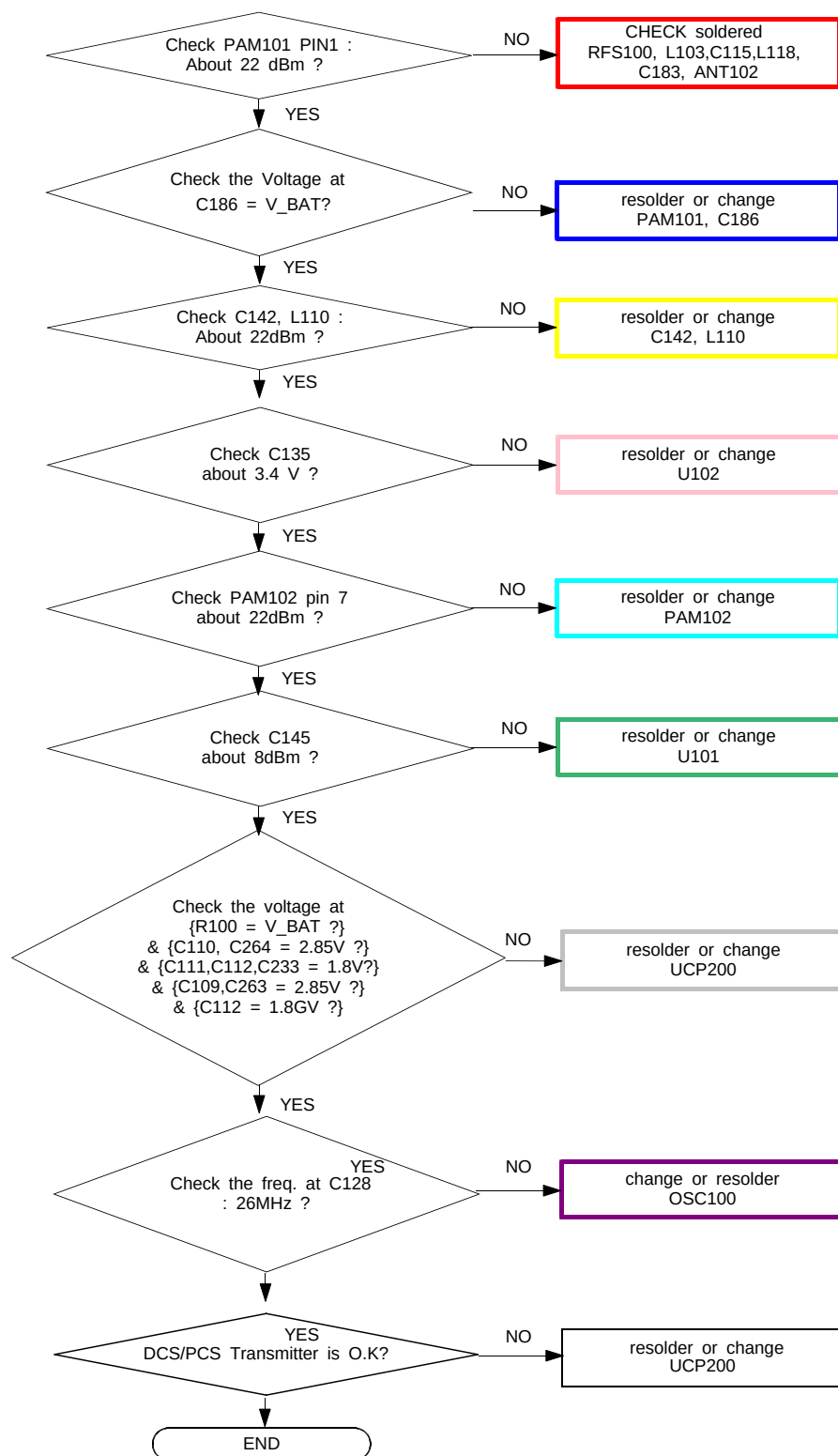
CONTINUOUS TX ON CONDITION
TX POWER DAC:14500 CODE
APPLIED
GSM850 CH : 190
GSM900 CH : 62
RBW : 100KHz
VBW : 100KHz
SPAN : 10MHz
REF LEV. : 10dBm
ATT. : 20dB

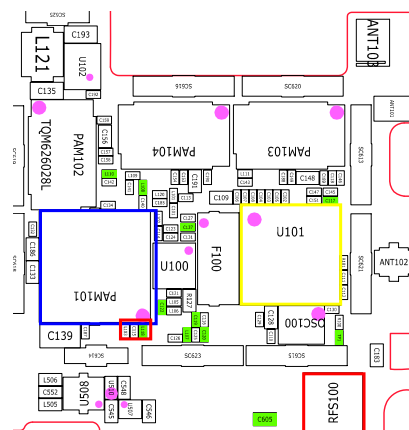
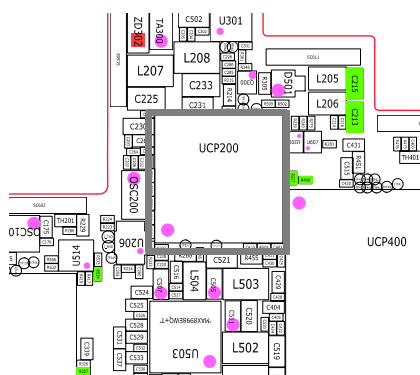
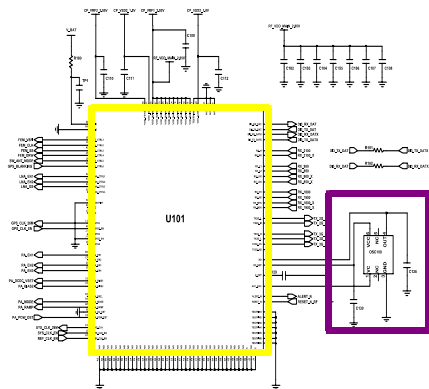
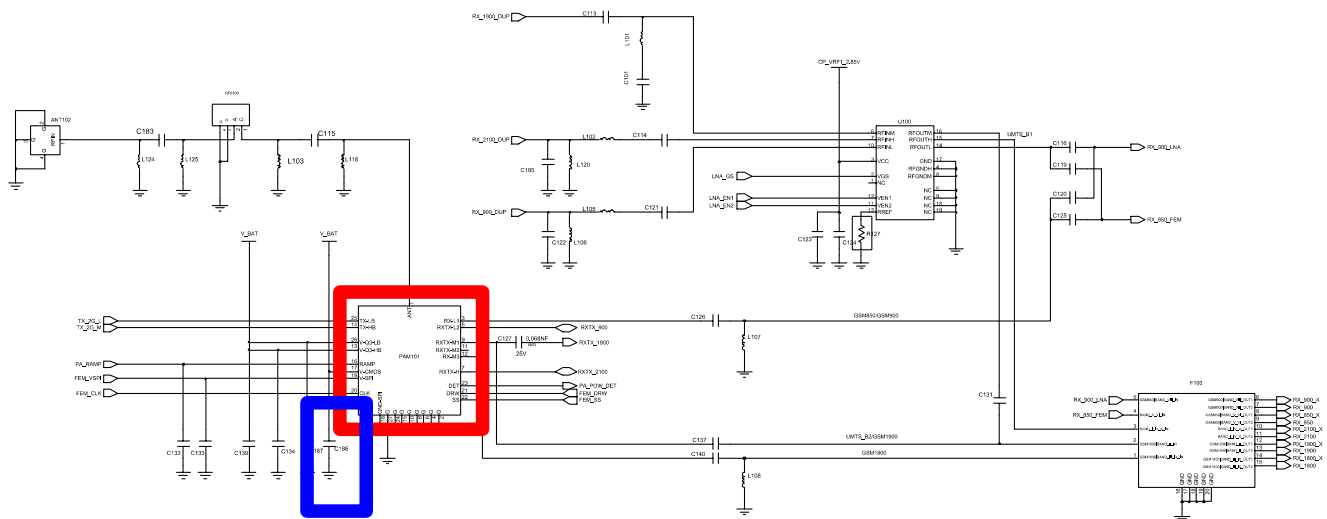


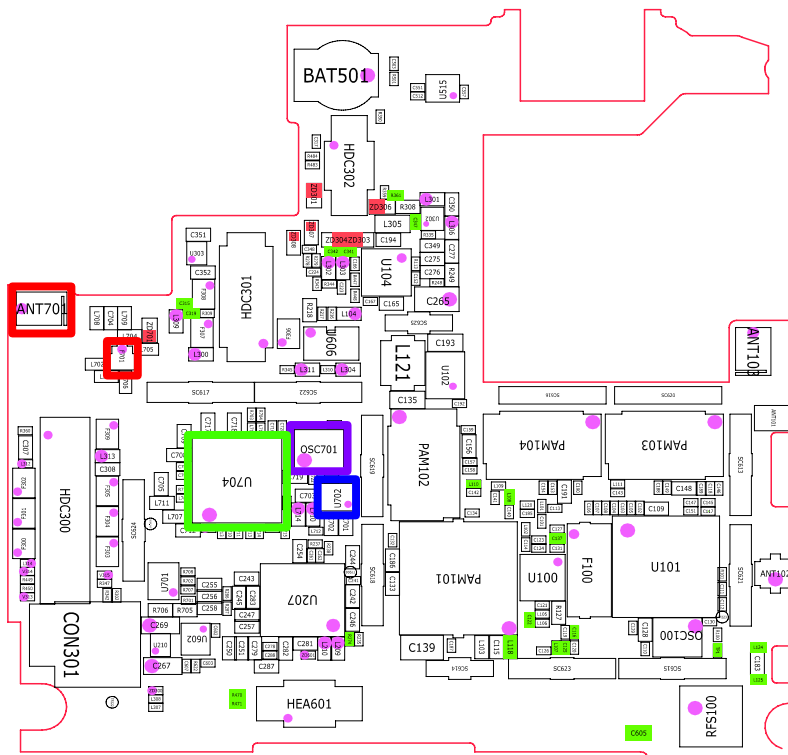


8-3-22. WCDMA BAND5 TX

CONTINUOUS TX ON CONDITION
TX POWER DAC:14500 CODE
APPLIED
GSM850 CH : 190
GSM900 CH : 62
RBW : 100KHz
VBW : 100KHz
SPAN : 10MHz
REF LEV. : 10dBm
ATT. : 20dB



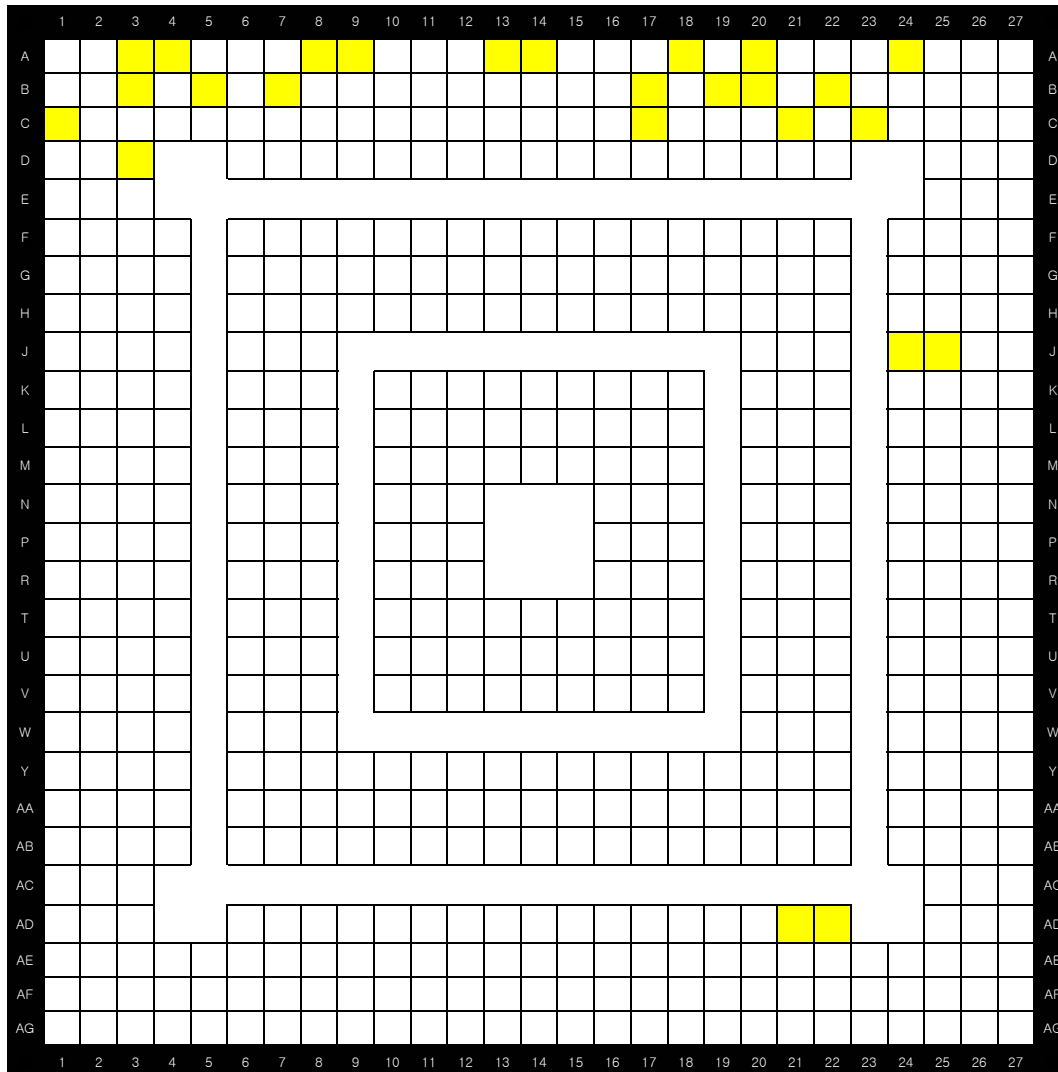




8-4. Service Schematics

- NC Point(Top View) : NC

UCP400



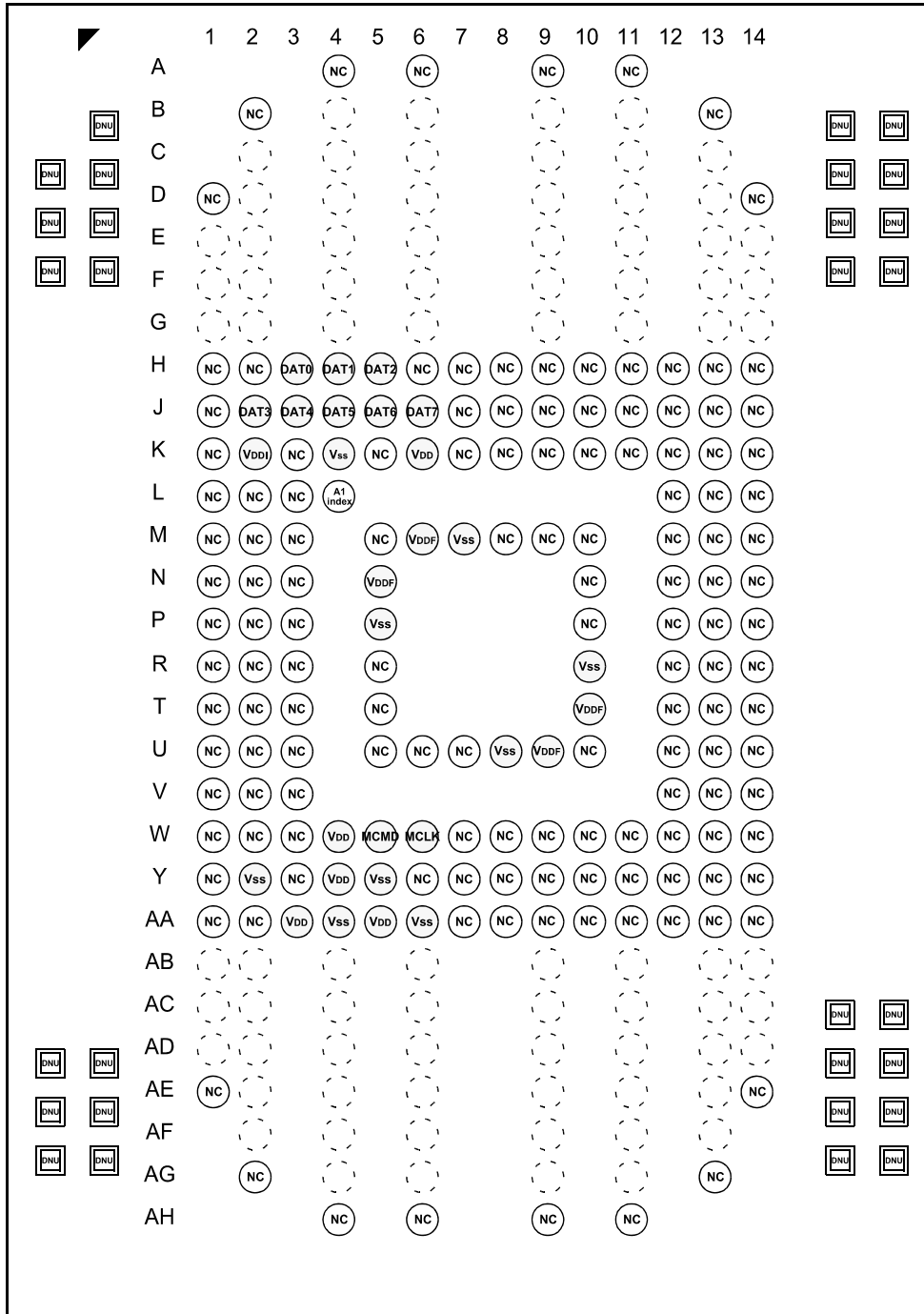
● : NC

UCP200

A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	T	U	V	W	Y	
NC																			NC	20
																				19
																				18
																				17
																				16
																				15
							-													14
																				13
																				12
																				11
																				10
																				9
																				8
																				7
		NC															NC			6
									-											5
							-													4
																				3
									-											2
NC									-										NC	1
A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	T	U	V	W	Y	

● : NC

UME301



9. Reference Abbreviate

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
- **CI** : 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



Notice

Product	GSM	Notice No.	10-67
Model	GT-I9000	Notice Date	5 th Oct '10
Subject	How to enter download mode		

1. Purpose

- To inform All Authorized Service Center of information about technical TIP

2. Instruction

- There is two ways to enter “Download mode” in GT-I9000 model.
- If phone cannot enter to “Download mode” with H/W key combination, you can do it with Anyway JIG too.

1) Key Combination.

- ① Turn off phone
- ② Press and hold “Volume down + Home Key + Power Key”



2) Anyway JIG connection

- ※ If phone cannot enter to download mode with H/W Key combination, you can use the Anyway JIG (S100 or S101)

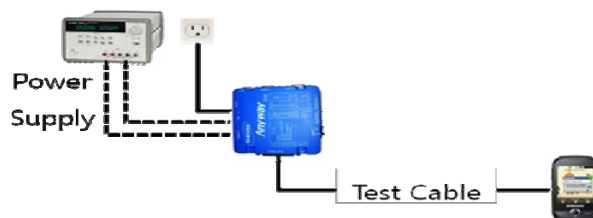
- ① Turn off phone
- ② Change Anyway JIG option refer to below

- Solution Setting : 2 Infineon
- Function Setting : 2 and 6
- VBATT : ON



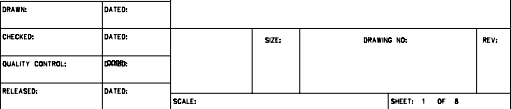
- ③ Connect phone with Anyway JIG refer to below

- * If you have charged battery, Power supply is not needed.

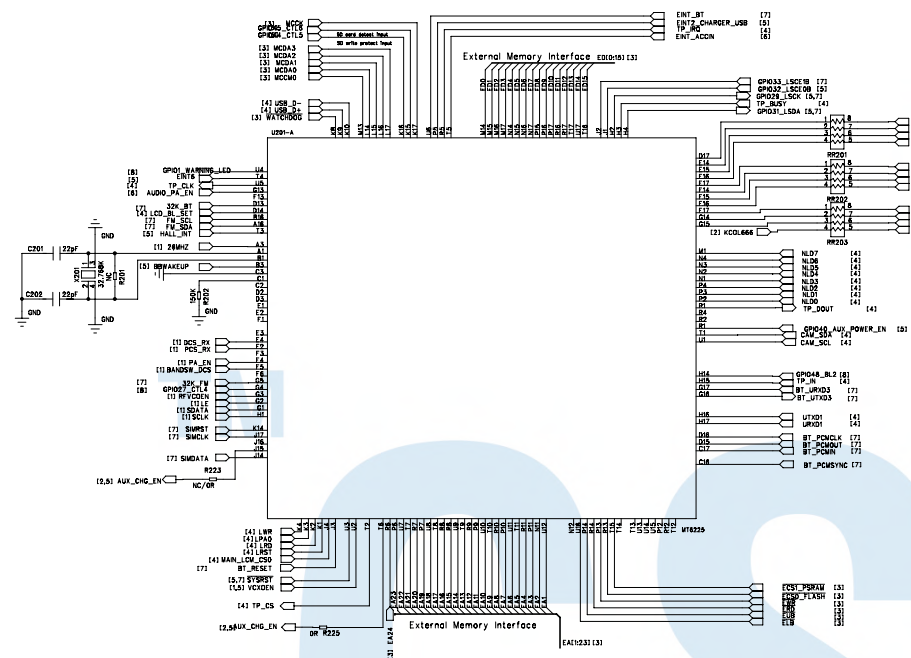


- ※ If you don't have USB cable connecting PC with Anyway JIG, you have to use data cable connecting PC with phone, and must have battery to download S/W.

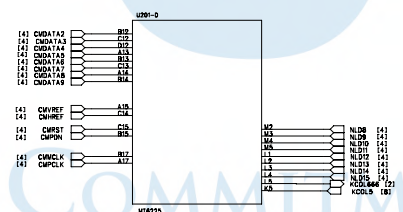
COMPANY:			
TITLE:			
	SIZE:	DRAWING NO:	REV:
SCALE:		SHEET: 1 OF 8	



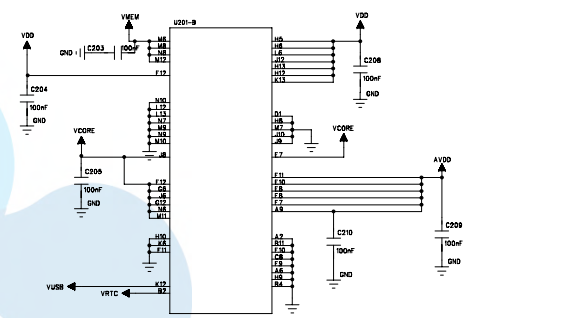
MT6225-DBB



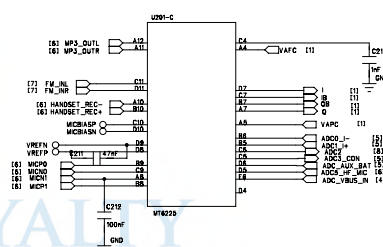
MT6225-CAMERA



MT6225-POWER

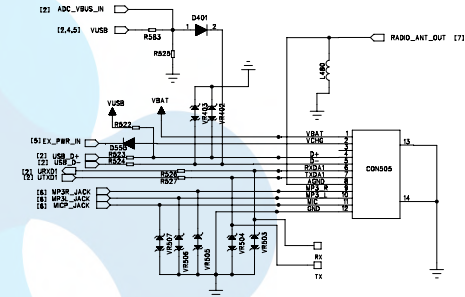


MT6225-ABB

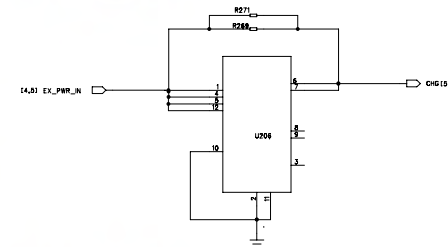


REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE

		COMPANY:			
		TITLE:			
DRAWN:	DATED:	SIZE: DRAWING NO: REV:			
CHECKED:					
QUALITY CONTROL:	DATE:				
RELEASED:	DATED:				
		SCALE:		SHEET: 2 OF 8	

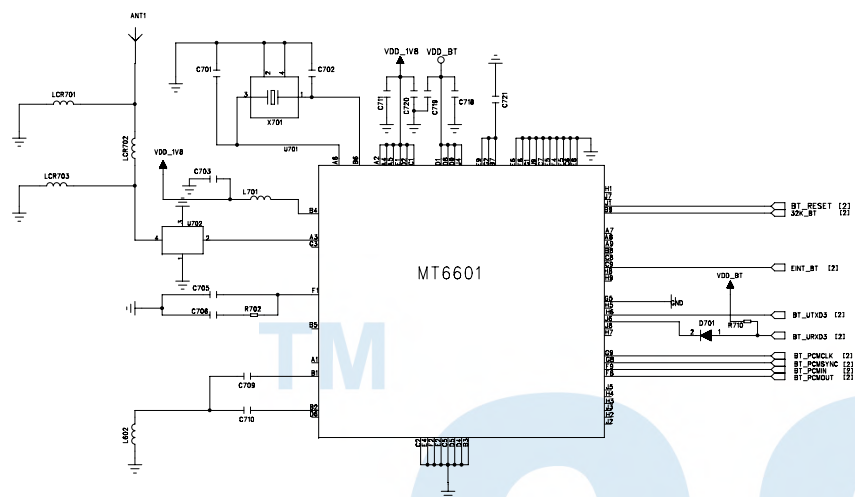


OVP

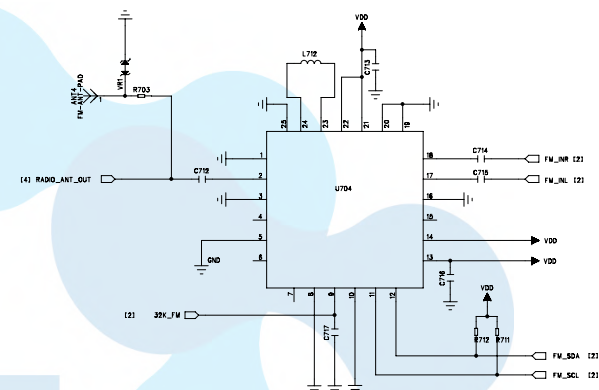


Voltage	Voltage	Max(mA)
Vcore	1.2V	200mA
VDD	2.5V	100mA
AVDD	2.5V	150mA
VTCD	2.5V	20mA
VRTC	1.5V	200uA
VME	2.5V	150mA
VEM	1.8V / 2.5V	20mA

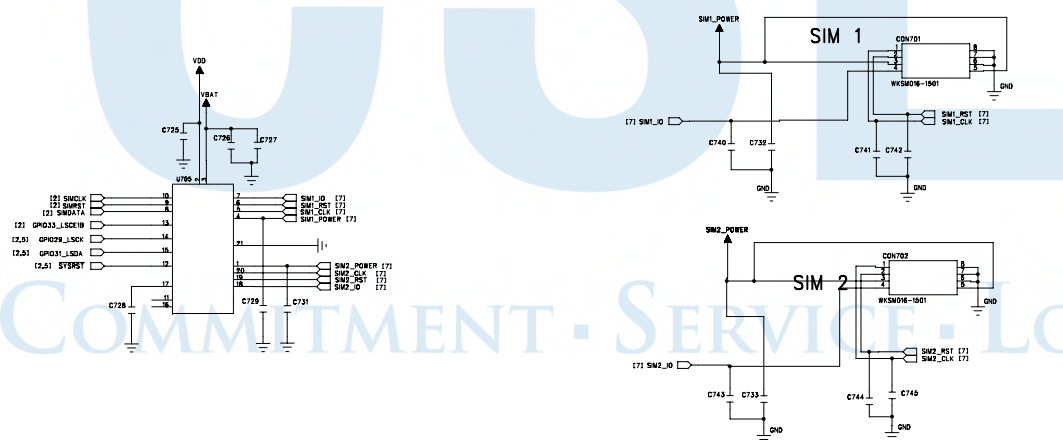
Blue Tooth



FM RADIO



SIM Connector

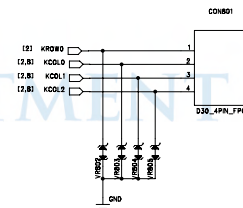
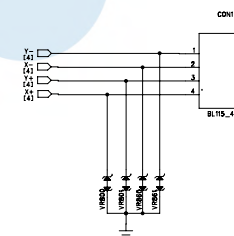
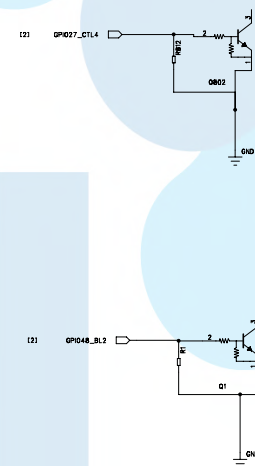
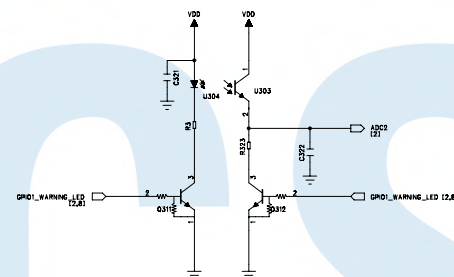


REVISION RECORD			
LTR	ECO NO.	APPROVED	DATE

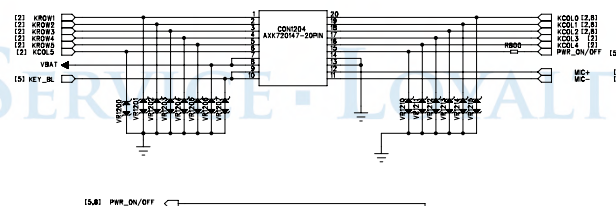
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TITLE:			
DRAWN:	DATED:	SIZE:	DRAWING NO.
CHECKED:	DATED:	SCALE:	REV:
QUALITY CONTROL:	DATED:	SHEET: 7 OF 8	
RELEASED:	DATED:		

REVISION RECORD			
LTR	ECO NO.	APPROVED	DATE

Distance Sensor



SIDEKEY_FPC



Fiducial Mask			
Inside	Outside	Inside	Outside
10P	10P	10P	10P
10P	10P	10P	10P
10P	10P	10P	10P

DRAWN:	DATED:
CHECKED:	DATED:
QUALITY CONTROL:	DATE:
RELEASED:	DATED:

COMPANY:			
TITLE:			
SIZE:	DRAWING NO:	REV:	
SCALE:		SHEET: 8 OF 8	

Service Training manual

GT- I 9000

H/ W Pl at f o r m 2 G r o u p

Contents

- ❑ Concept & Main features
- ❑ Block Diagram
- ❑ Component & Location
- ❑ Disassembly and Assembly
- ❑ Troubleshooting
- ❑ Calibration

Concept & Main features

● Stylish & Slim Design

● Processor

- 1GHz Application Processor

● Display / Size

- 4.0" WGA 16M SUPER AMOLED

● Network

- WCDMA(3G HSDPA) 900/1900/2100
- GSM(2G EDGE/GPRS) Quad band

● Camera

- 5M pixel AF Camera
- Smile/Panorama/Continuous/Beauty, vintage shot

● Video

- HD video (1280x720) Playing/Recording
- DivX, XviD supported

● Radio

- FM Radio with RDS / real time recording

● Memory

- 2GB + microSD (up to 32GB)

● Connectivity

- Bluetooth v3.0 / USB 2.0 FS / Wi-Fi 802.11n/ GPS

● Battery

- 1500mAh

● Music

- MP3/AAC/AAC+ /Eaac+ /WMA/AMR/MIDI/SP-MIDI/i-melody/WAV/MMR/Real(Vodafone only)

● Sensor

- Accelerator Sensor / Proximity Sensor / G-sensor, Ambient Light Sensor

● Additional

- TouchWiz 3.0 / Application store / Voice & Motion UI
- SMS/MMS/Email/Video Messaging Email/ Push Email (Exchange ActiveSync)
- Multi-touch, Multi-task manager

Concept & Main features

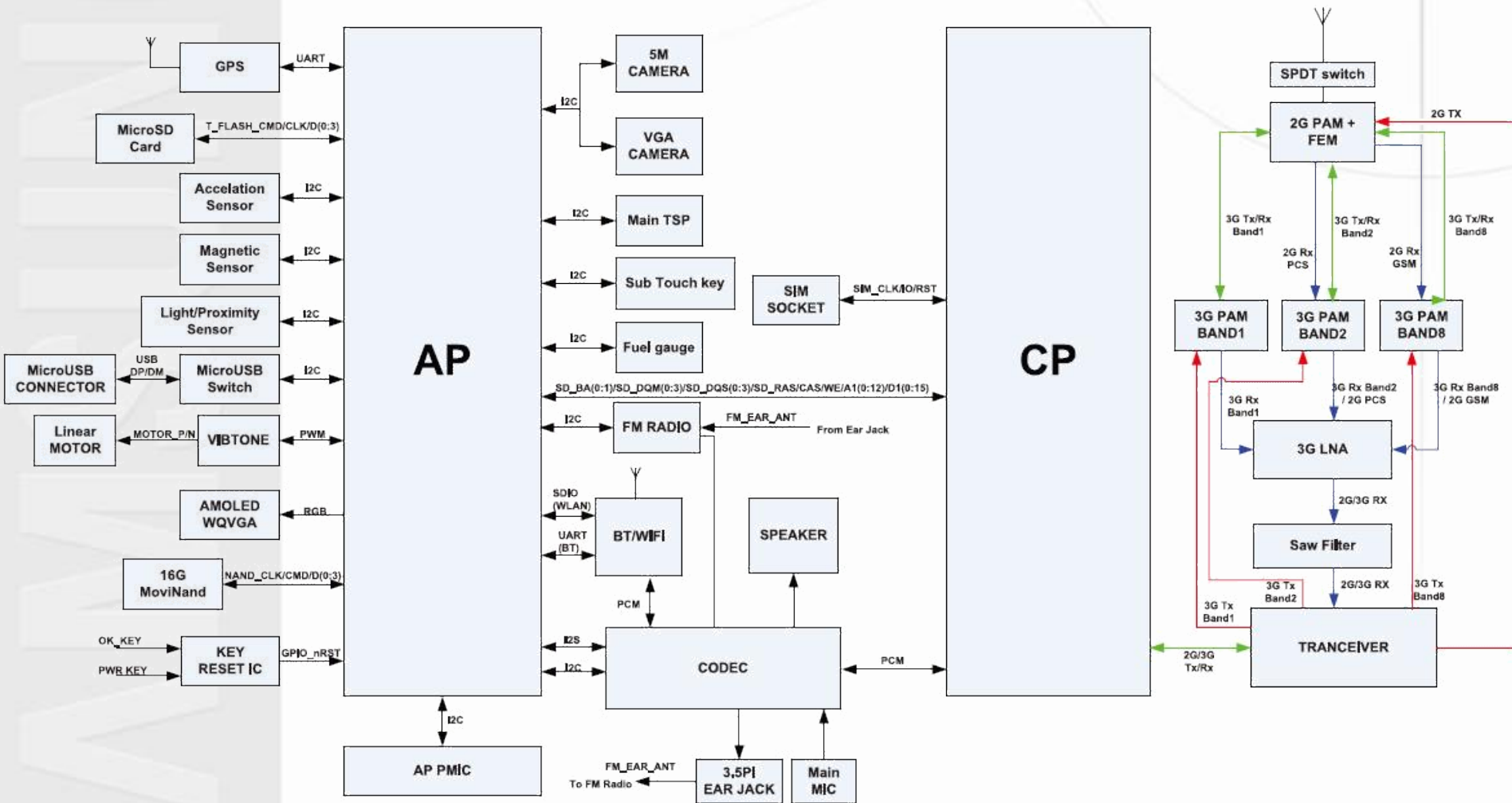
Category	Description
B/B Chipset	XMM6160 (Infineon)
Standard	HSDPA 7.2Mbps, HSUPA 5.76Mbps EDGE/GPRS Class 12 (EDGE Rx- Only)
RF Band	2.5G : 850+ 900+ 1800+ 1900 MHz (2.5G) 3G : 900+ 1900+ 2100 MHz
Additional Chip	N/A
Dimension	122.4 x 64.2 x 9.9 mm
Display	4.0" WVGA 16M OCTA (On Cell TSP AMOLED) C-type Touch
Camera	5M AF
Flash	N/A
Memory	Total : 4G(OneNand) + 3G(DRAM) + 1G(OneDRAM) User : 400MB + 1GB(for Appl.)
Ex. Memory	Micro SD (up to 32GB)
Antenna	GPS, BT, Main
SIM	Sliding type, 3V/1.8V

Category	Description
Battery	Li-ion 1500mAh
- STD time	Up to 750h(2G), 600h(3G)
- Talk time	Up to 13.1h(2G), 6.7h(3G)
Connectivity	GPS Wi-Fi (802.11n) USB 2.0 High Speed BT v3.0
I/F Connector	Micro USB
Speaker	Size : 15x11mm, 3.5t SPK/RCV : Separated
Ear Jack	3.5pi Earjack (4)
CMF	Main Color : Metallic Silver Body : Black Battery Cover: Metallic Black
VPS	Package : TA, battery, Headset, Data cable Option : DC, Car Charger, Car Cradle, Battery Charger, Mic. Cable,
User Benefit	Reinforced connectivity w/ GPS & Wi-Fi Accelerometer sensor, G-sensor Easy to enjoy music w/ your 3.5pi earphone

Contents

- ❑ Concept & Main features
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Block Diagram



Contents

- ❑ Concept & Main features
- ❑ Block Diagram
- ❑ **Component & Location**
- ❑ Disassembly and Assembly
- ❑ Troubleshooter
- ❑ Calibration

Main Top

MicroUSB

CP

RESET IC

AP

Mov NAND

GPS

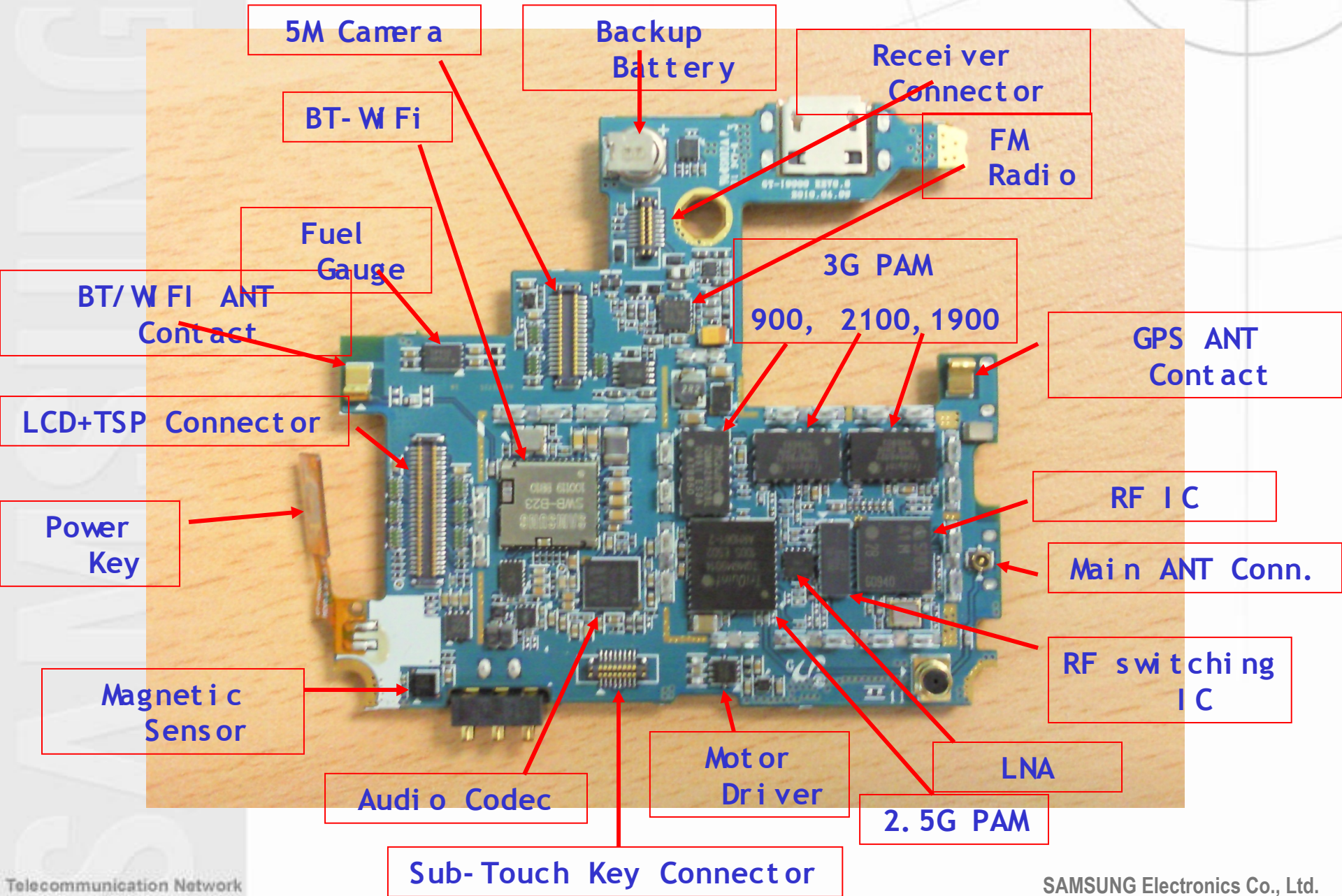
Accelerometer

Volume Keys

AP PMIC

SIM, T-FLASH, Speaker connector

Main Bottom



5M Camera

VGA Camera

Speaker

Receiver

BT/WiFi ANT

3.5pi
Earjack

Light / Proximity
Sensors

LCD Con

SIM Card

Micro SD

TSP
Controller

GPS ANT

Motor

Mic

Main ANT Contact

Sub Touch Key
Controller

Main ANT

Contents

- ❑ Concept & Main features
- ❑ Block Diagram
- ❑ Component & Location
- ❑ **Disassembly and Assembly**
- ❑ Troubleshooting
- ❑ Calibration

1

Unscrew screws on the rear



Unscrew 7 screws on the rear using a screw driver.

2

Unhook the rear using a disassembly knife to remove the rear cover



Be careful not to damage the rear cover when unhooking it.

3

Detach the Power Key FPCB



Detach the power key FPCB, that is stick to the bracket by a double-sided tape, using tweezers. Make sure to remove all remaining tape on the bracket.

4

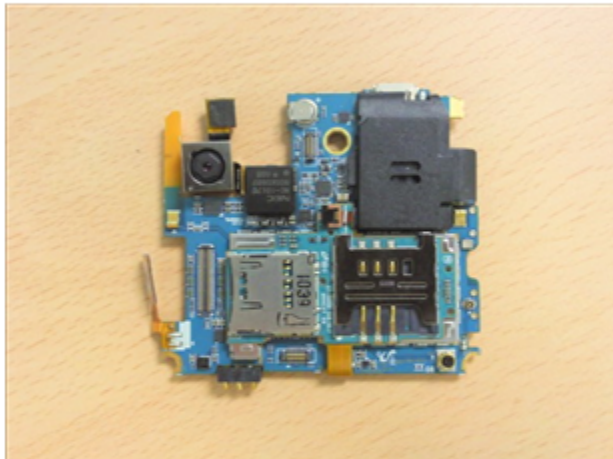
Disconnect connectors from the Main PBA



Disconnect LCD Connector, Receiver Connector, Sub-touch Key Connector and Antenna cable from the Main PBA

5

Pull out the Main PBA



After disconnecting the connectors carefully pull the Main PBA out of the bracket.

6

Remove the Antenna Cable



Remove the antenna cable from the main Antenna PCB on the sub-touch key module.

7

Remove the top shield can



Pull out the Receiver module from the bracket. Be careful not to damage the FPC.

8

Remove the Camera Module

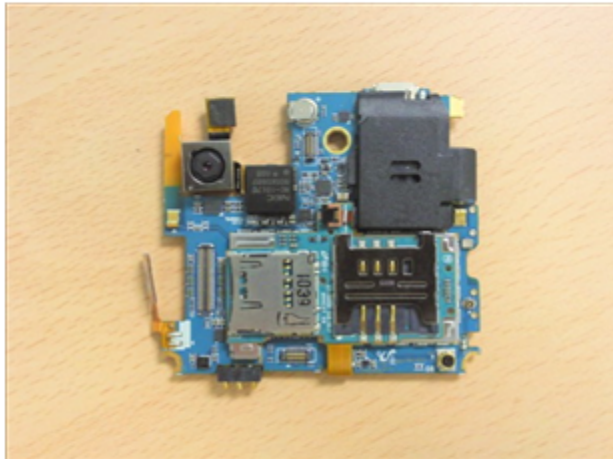


Remove the camera module from the Main PBA by pulling it out.

Disassembly

9

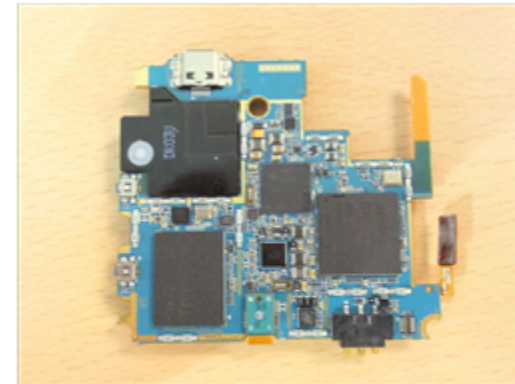
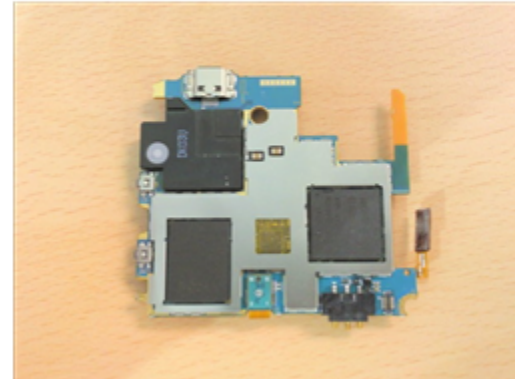
Pull out the Main PBA



After disconnecting the connectors carefully pull the Main PBA out of the bracket.

10

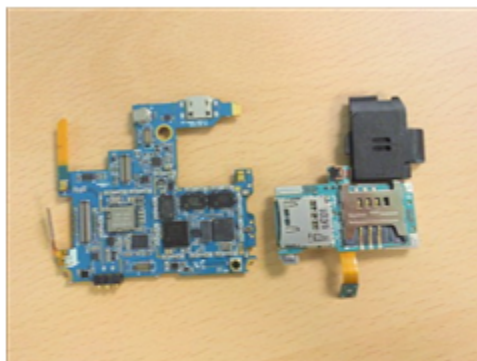
Remove the top shield can



Be careful not to damage the shield can and the components when removing it.

11

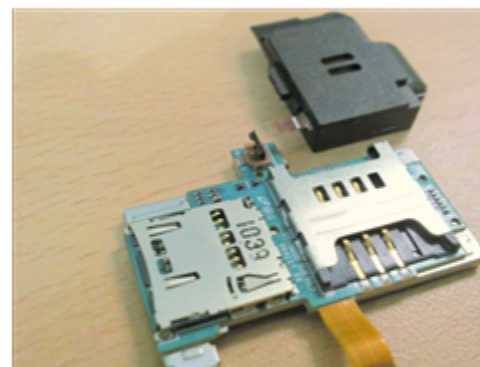
Remove the rear shield can + Sim Card PBA



Disconnect the Sim Card PBA connector from the Main PBA then remove the rear shield can + Sim Card PBA

12

Remove the speaker

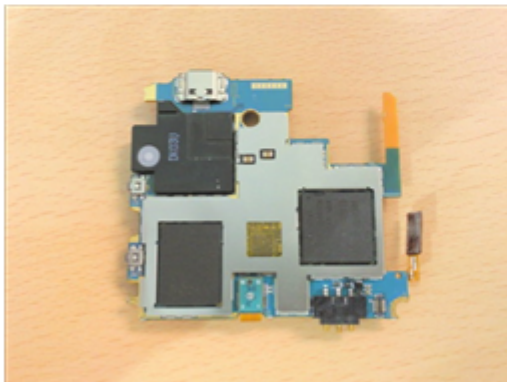
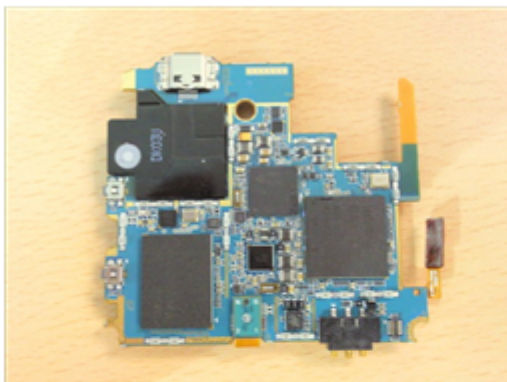


Remove the speaker by opening the connector.

Assembly

1

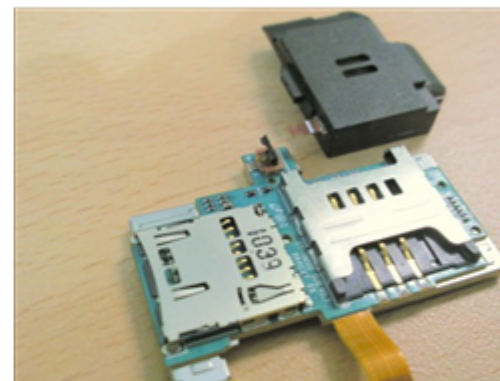
Place the top shield can.



Place the top shield can on the Main PBA

2

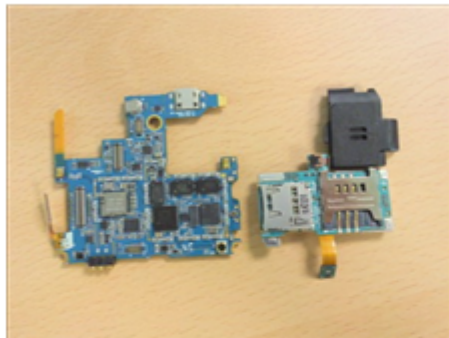
Connect the speaker to the Sim Card PBA



Connect the speaker to the Sim Card PBA by sliding FPC into the connector.

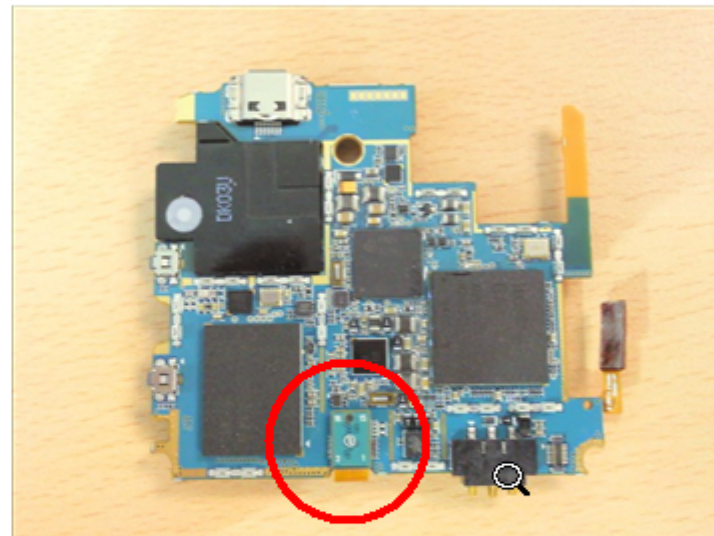
Assembly

3 Place the Sim Card PBA + shield can



Place the bottom shield can + Sim Card PBA onto the bottom of the Main PBA. Make sure that the speaker locks into position and the shield can to be place correctly into the clips.

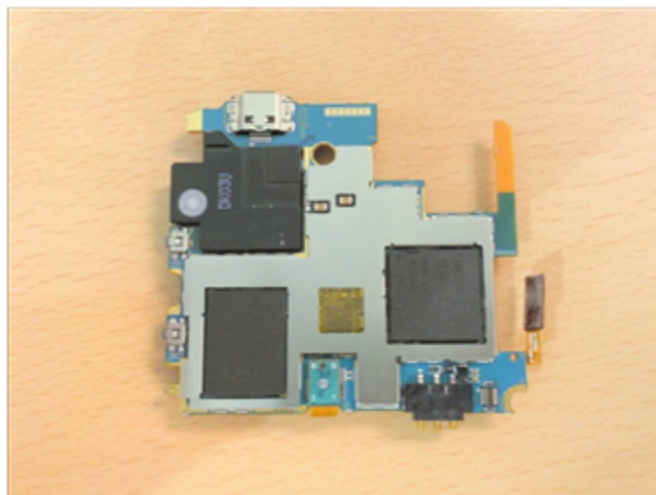
4 Connect the Sim Card PBA Connector



Connect the sim card PBA connector to the top of the main PBA.

5

Place the top shield can



Place the top shield can on the top of the main PBA

6

Place the camera module



Connect the camera module to the Main PBA

7

Place the Receiver Module



Place the receiver module onto the bracket.

8

Connect the Antenna Cable



Connect the antenna cable to the Main Antenna PCB

Assembly

9**Place the Main PBA**

Place the main PBA onto the bracket. Make sure to place the camera module into the socket correctly.

10**Connect LCD, Sub-touch key, Antenna and Receiver connectors and place the Power key**

Connect LCD, Sub-touch key, Antenna and Receiver connectors, and place the Power key to the side of the bracket

Assembly

11

Place the rear cover



12

Screw the rear cover



Make sure all the hooks are placed correctly, and press the volume keys and the power key for tensions.

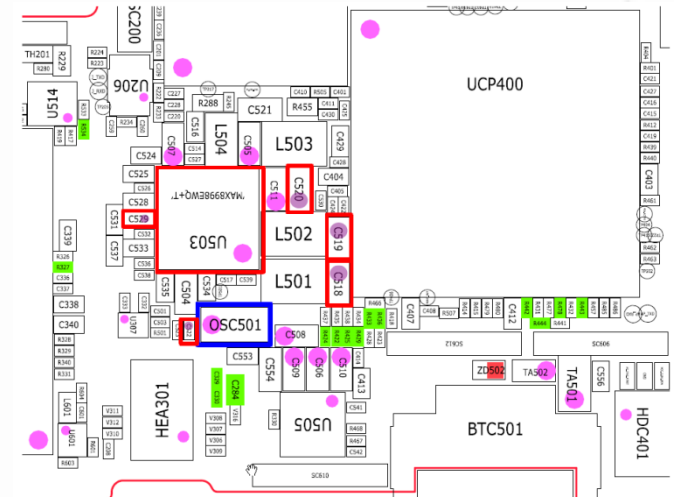
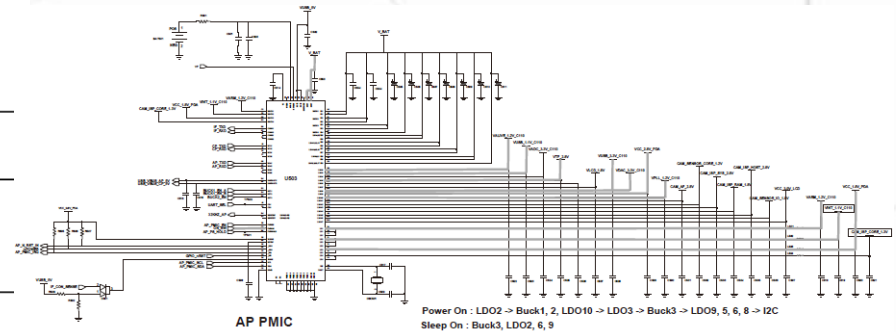
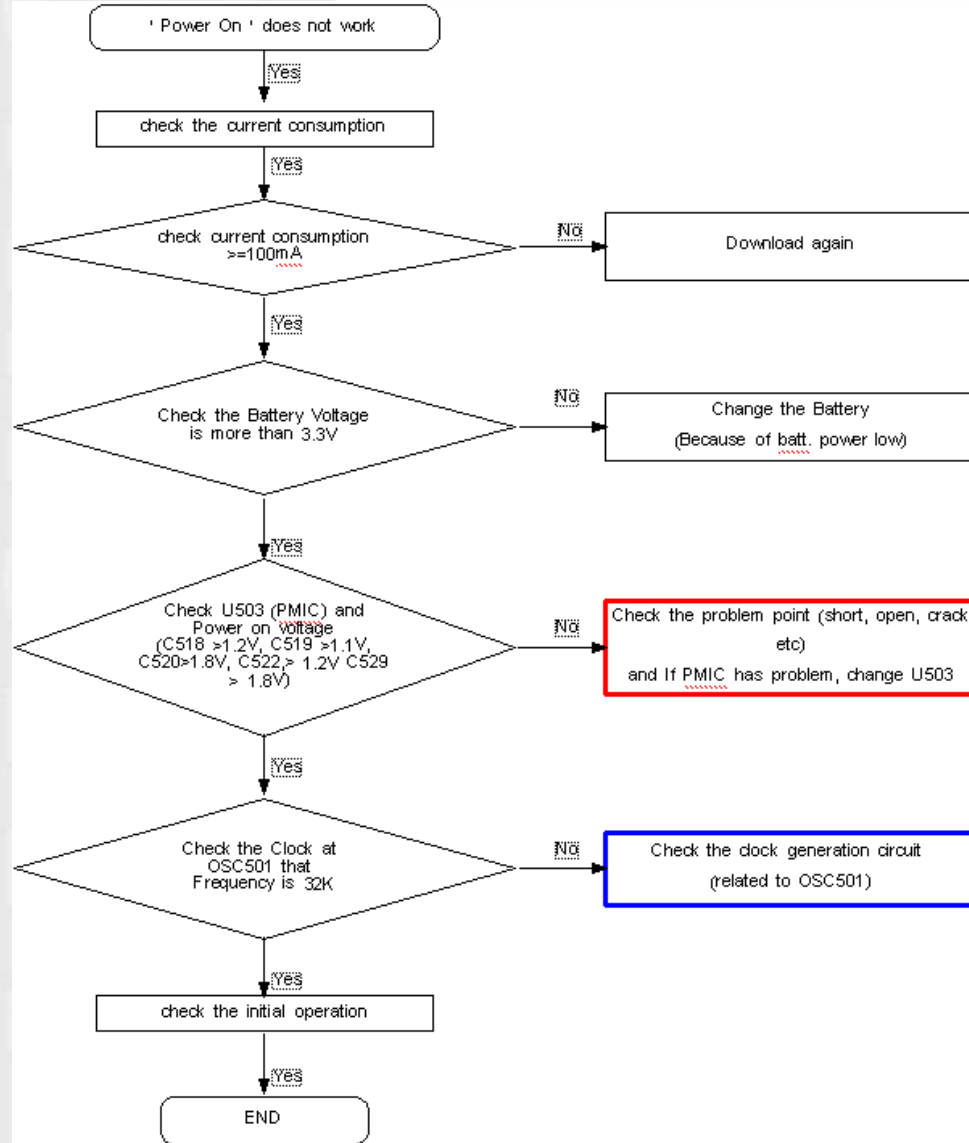
Screw 7 points on the rear cover

Contents

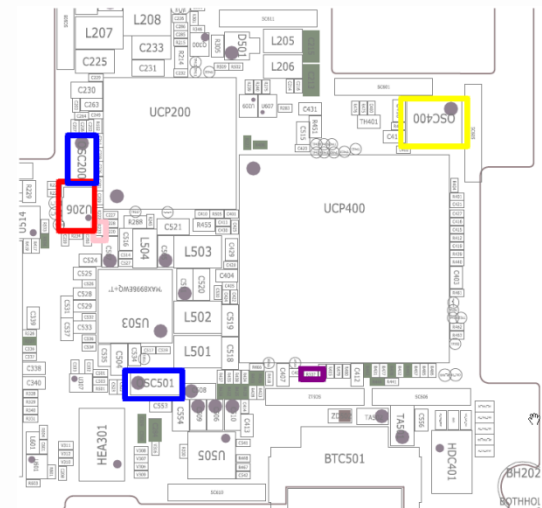
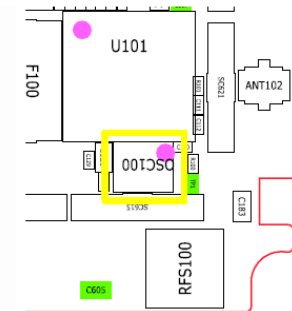
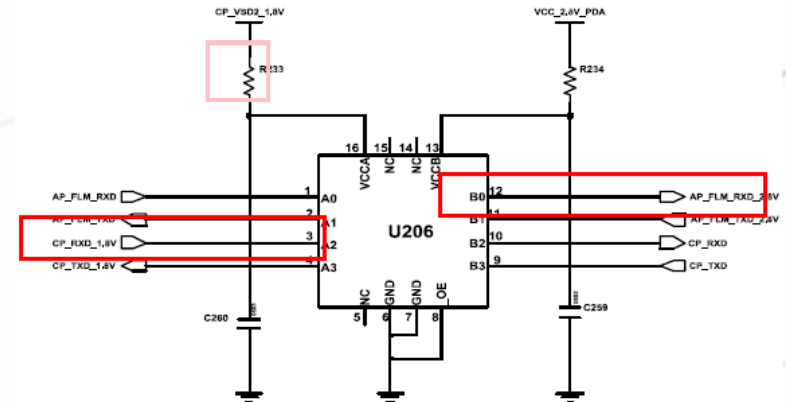
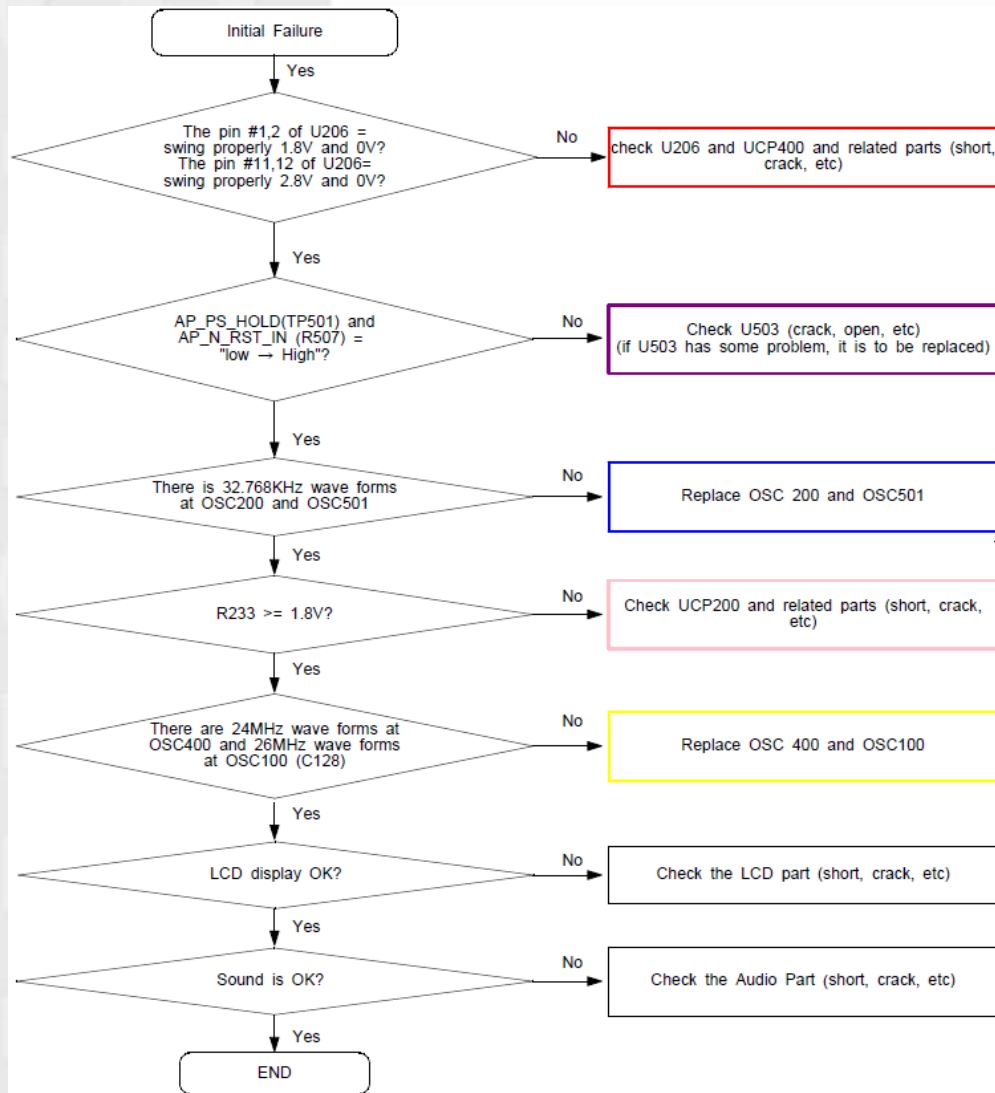
- ❑ Concept & Main features
- ❑ Block Diagram
- ❑ Component & Location
- ❑ Disassembly and Assembly
- ❑ **Trouble shooting**
- ❑ Calibration

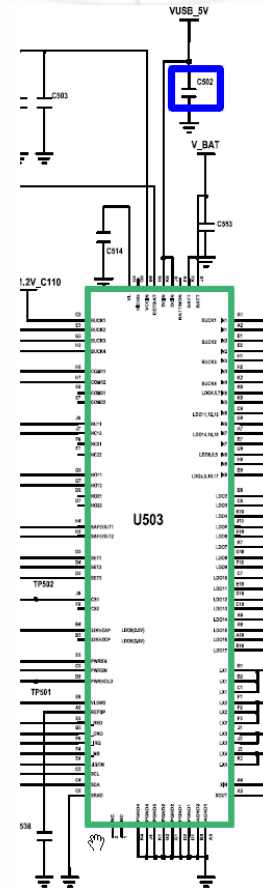
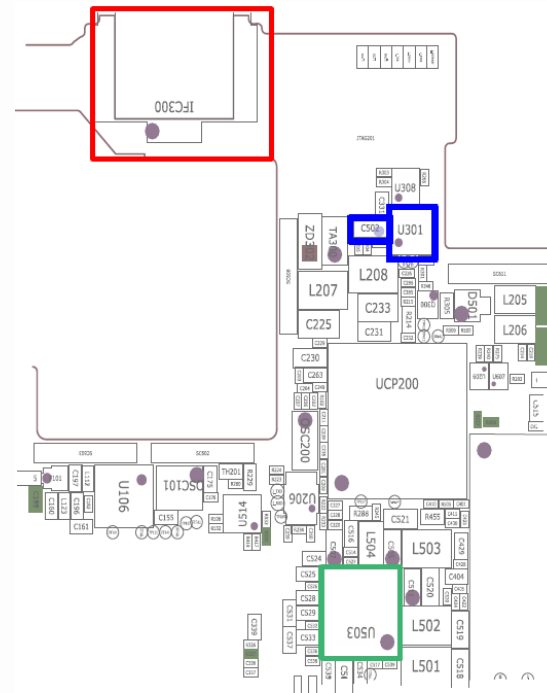
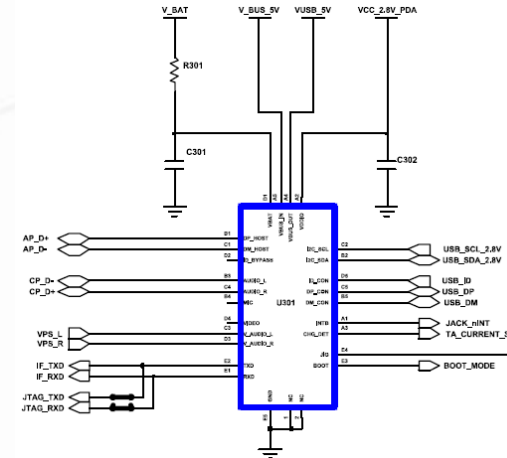
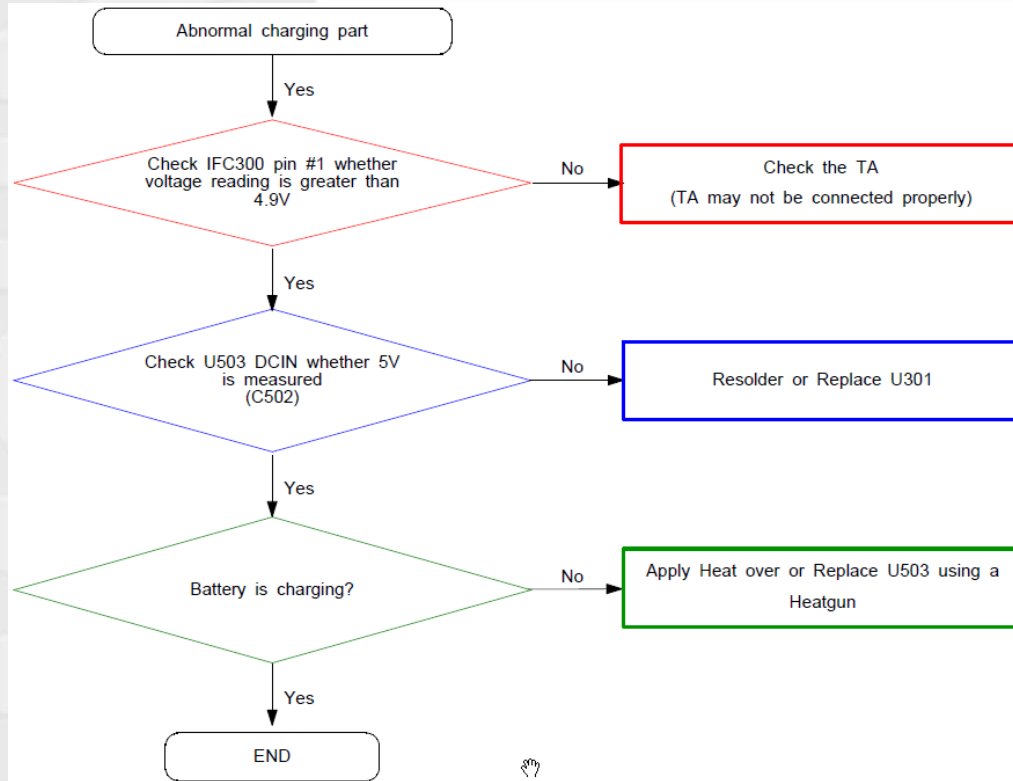


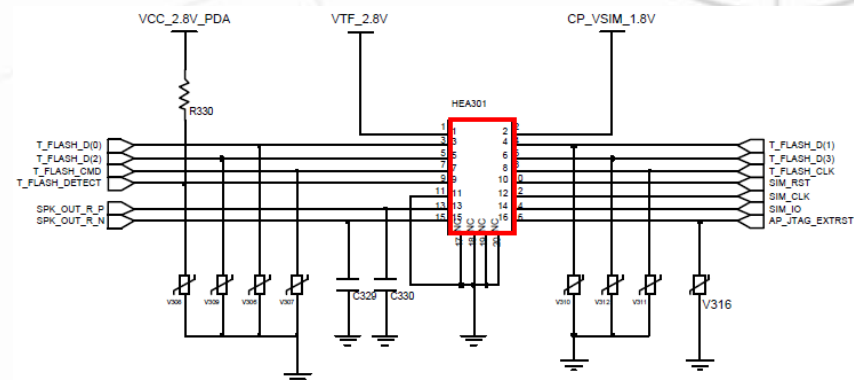
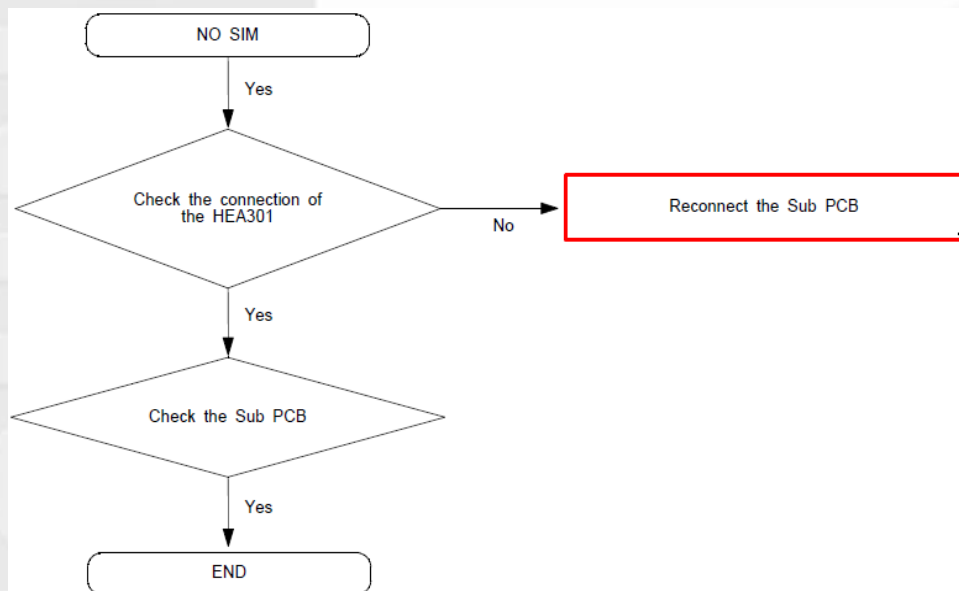
Power On/Off



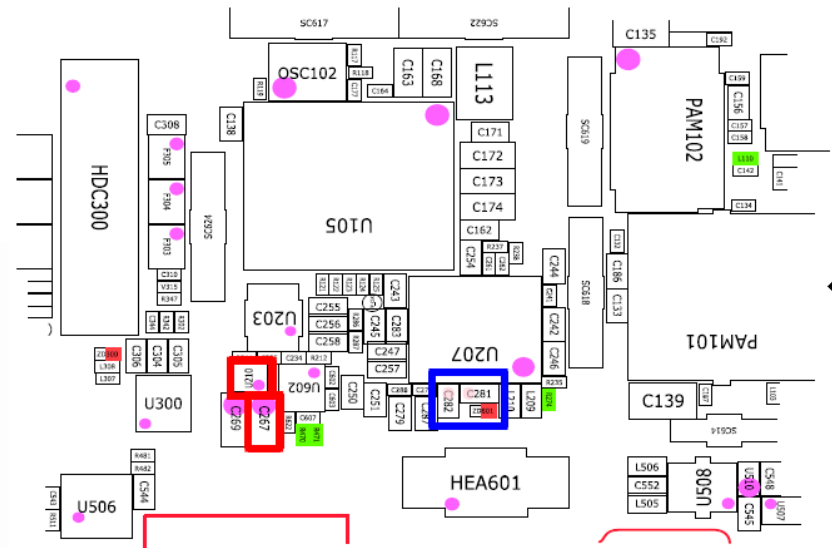
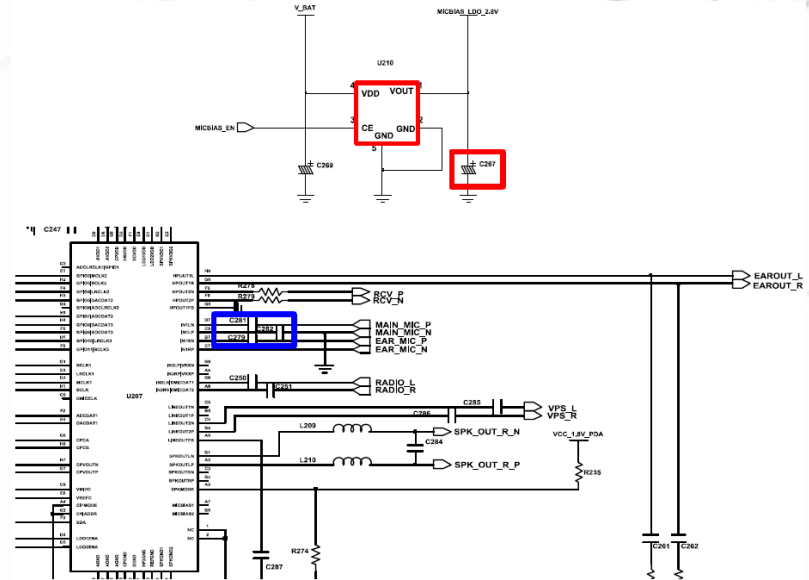
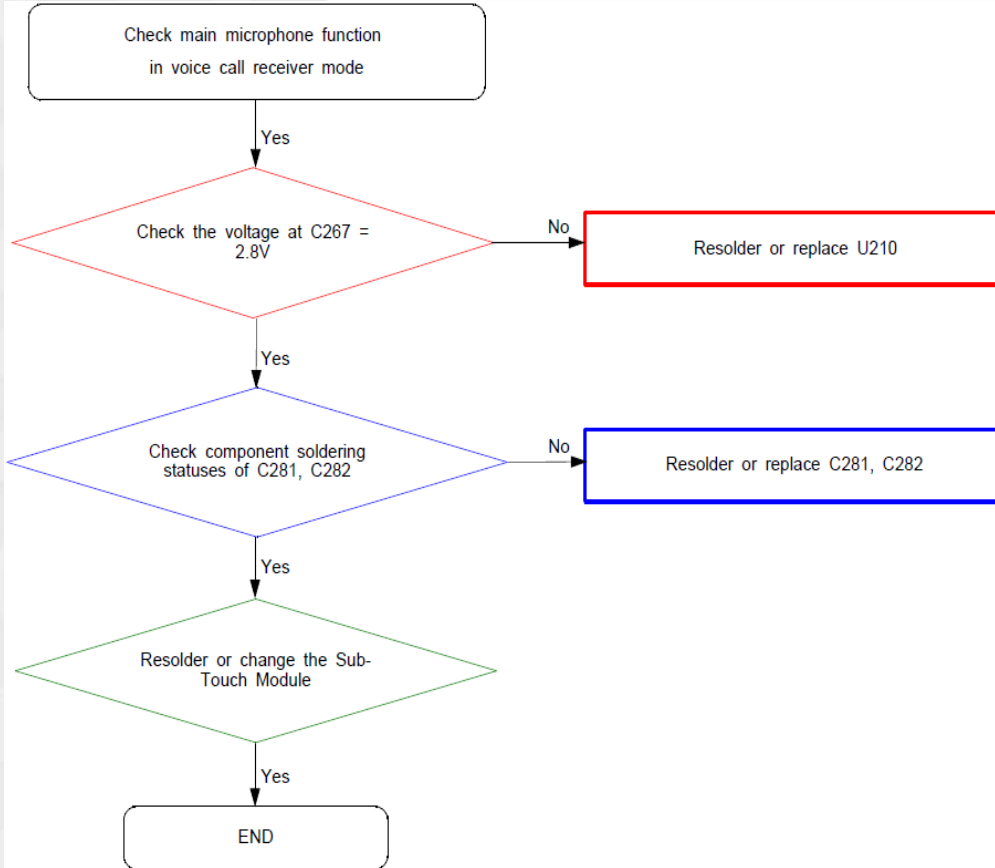
Initialization

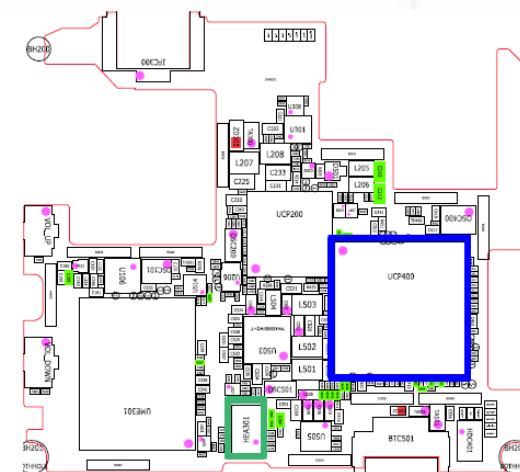
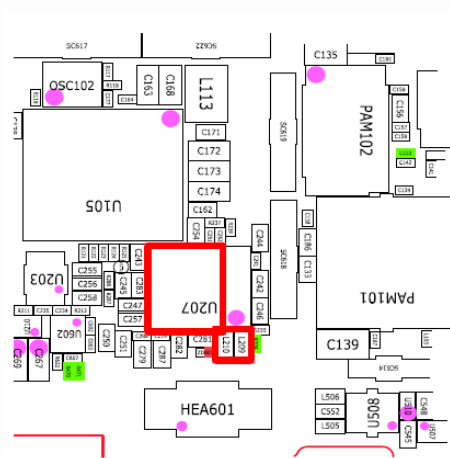
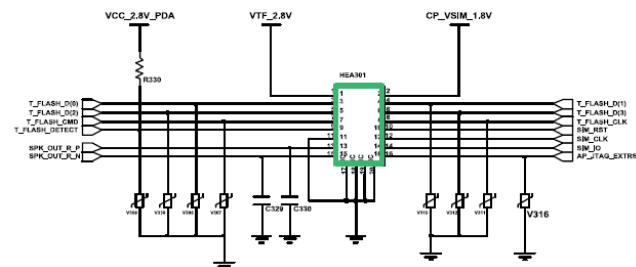
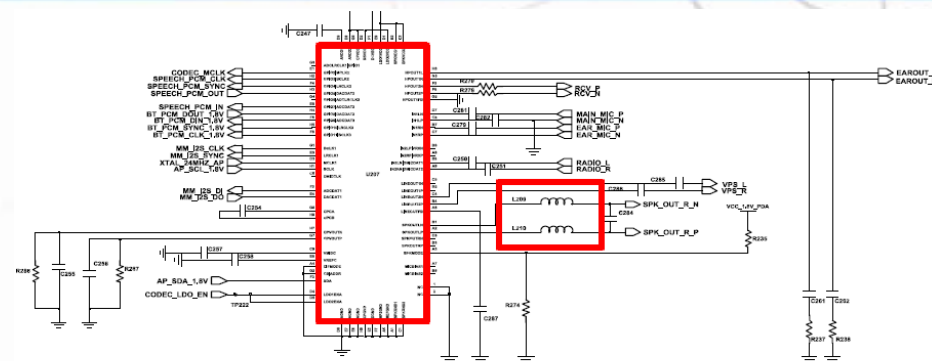
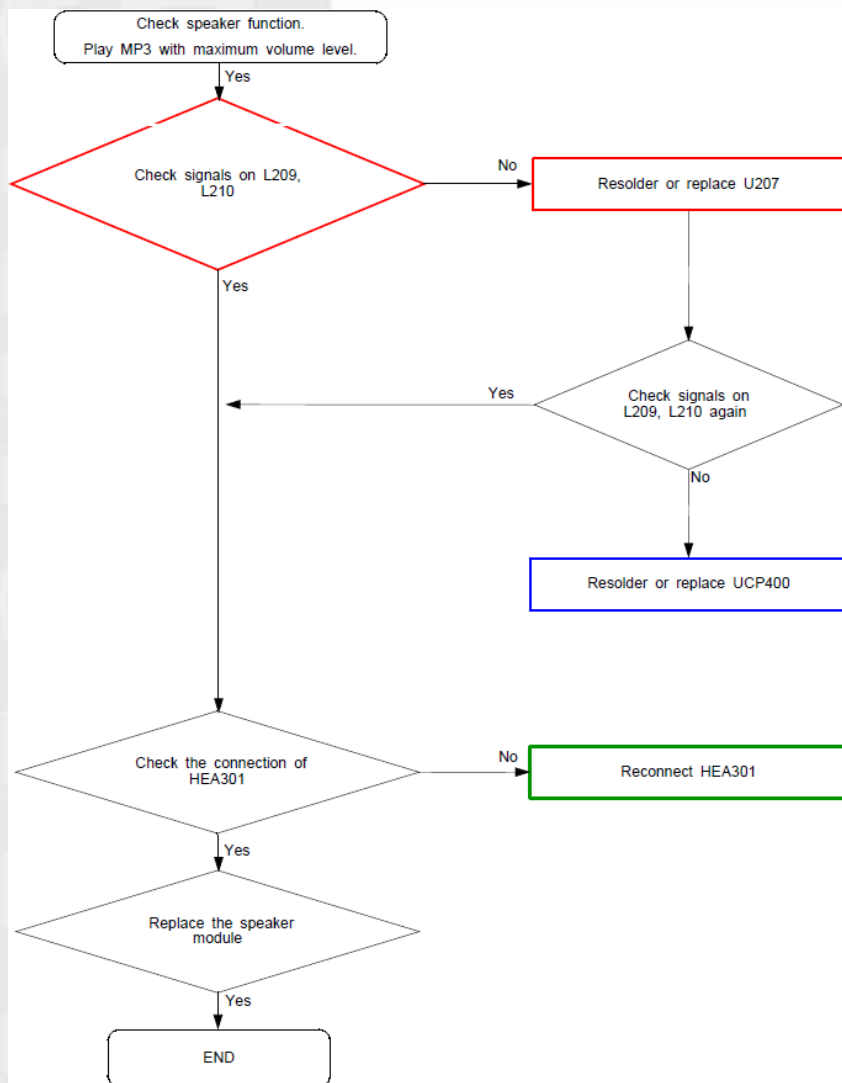






Main MIC





RECEIVER

Check receiver function in voice call receiver mode

Yes

Check the signals at ZD307, ZD308

No

Resolder or replace U207

Yes

Check the signals at ZD307, ZD308 again

No

Resolder or replace UCP200

Yes

Check the connection of HDC302

No

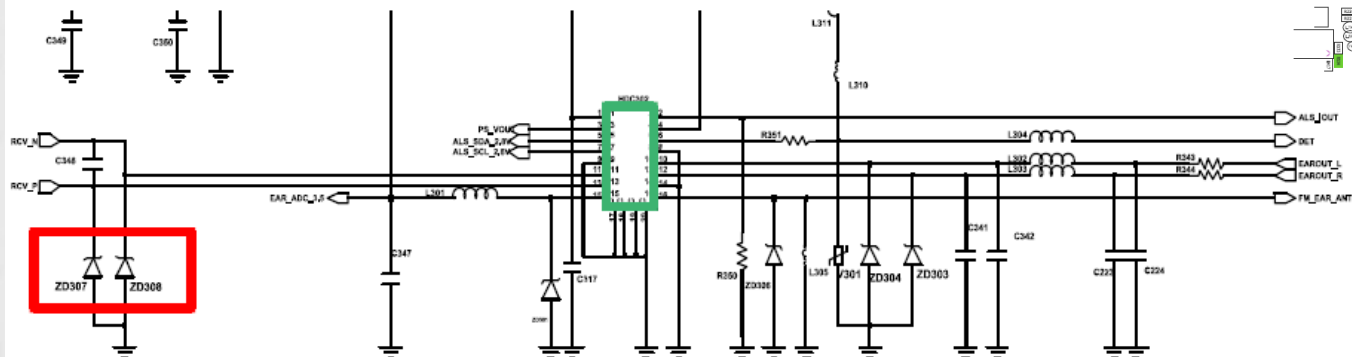
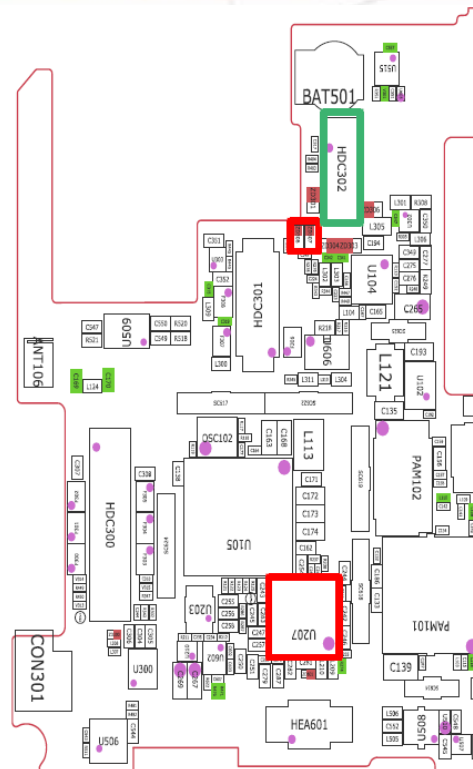
Reconnect HDC302

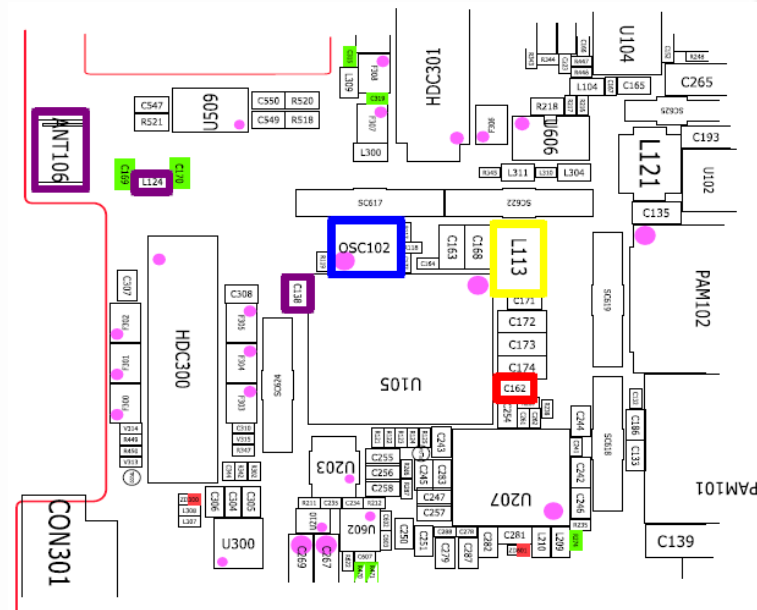
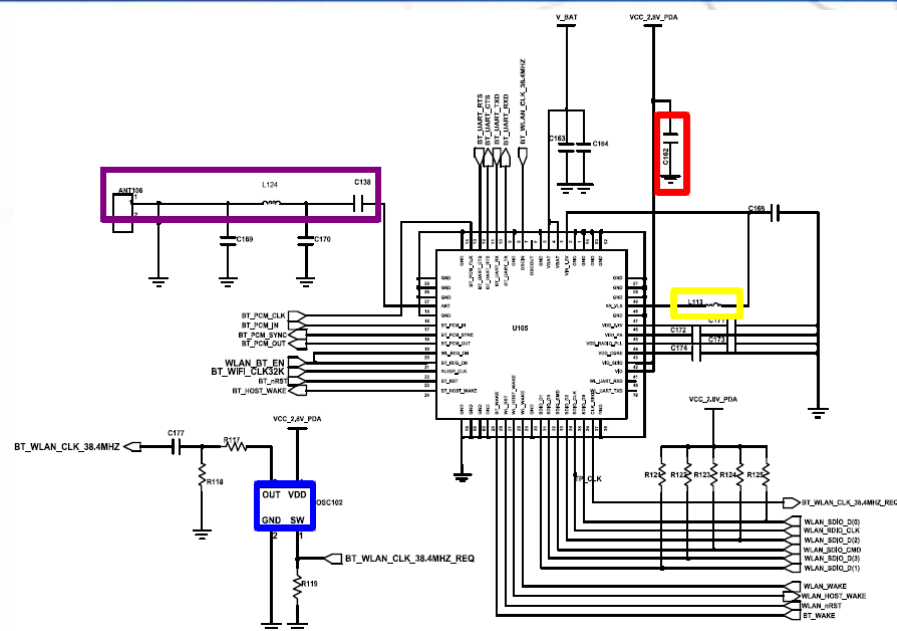
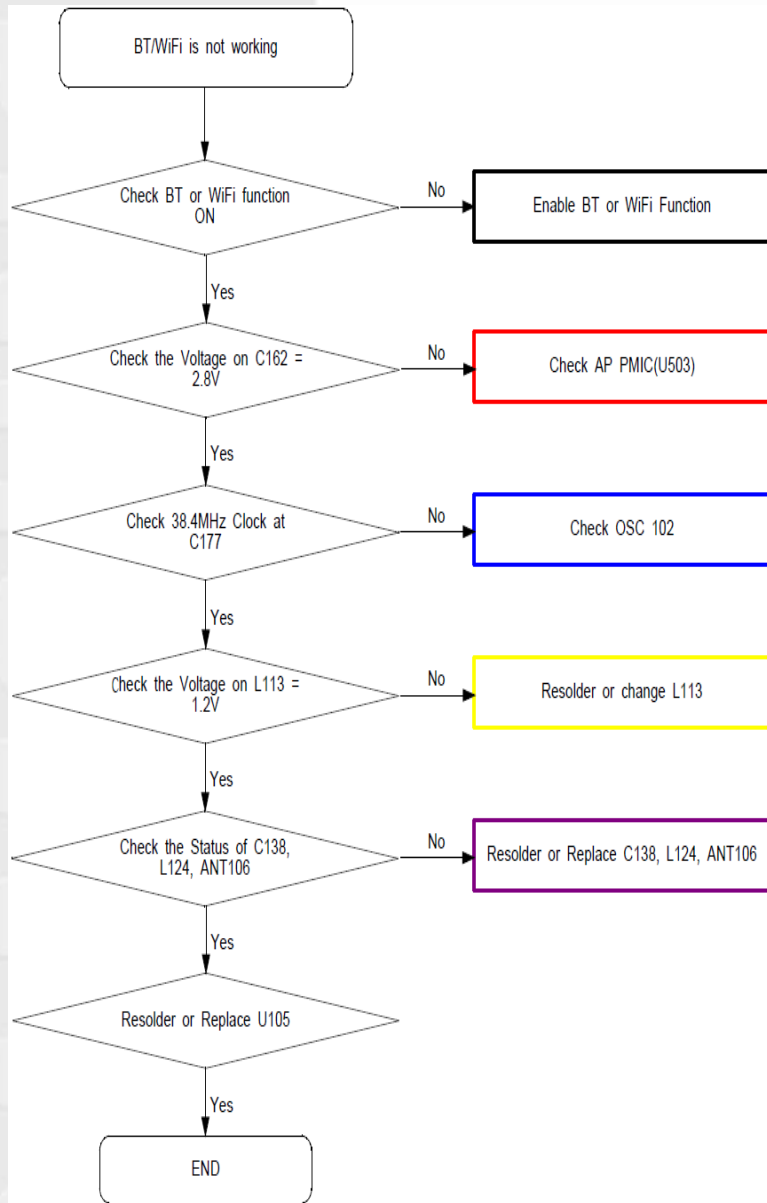
Yes

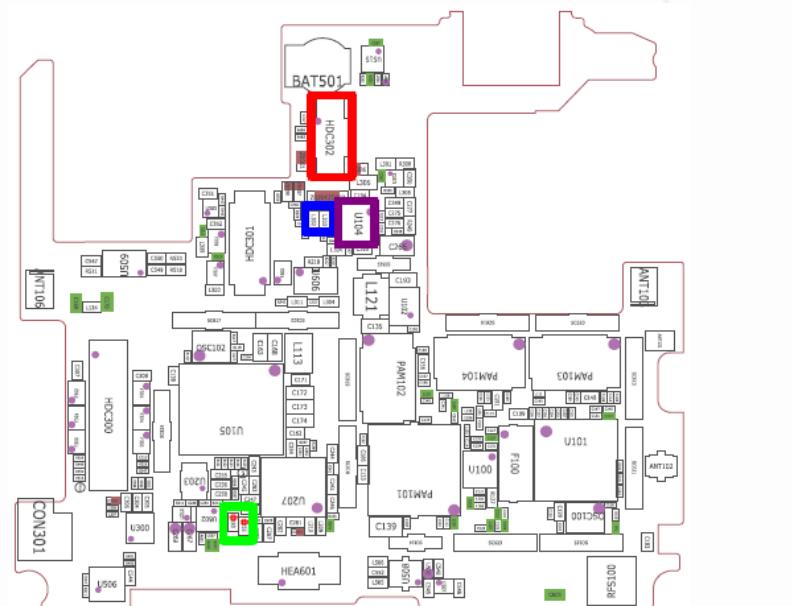
Replace the Receiver-Earjack Ass'y

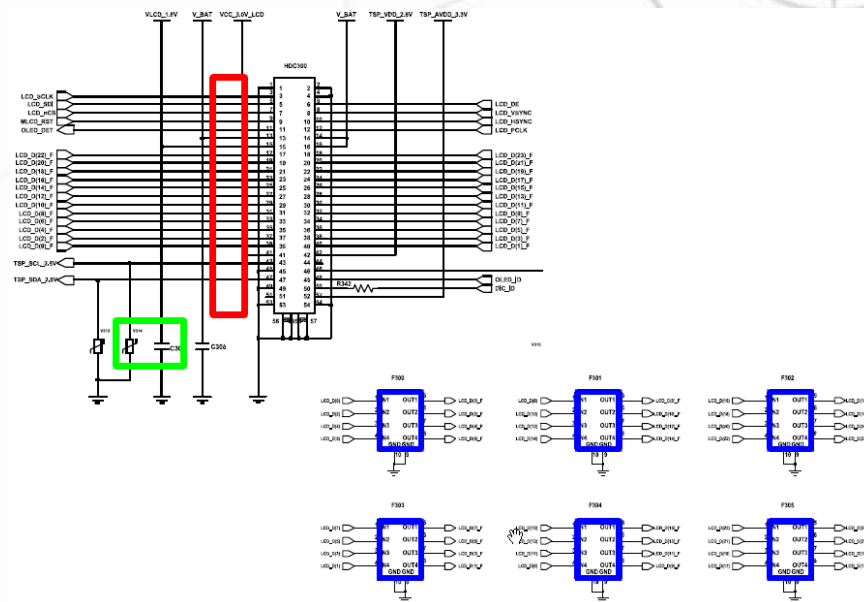
Yes

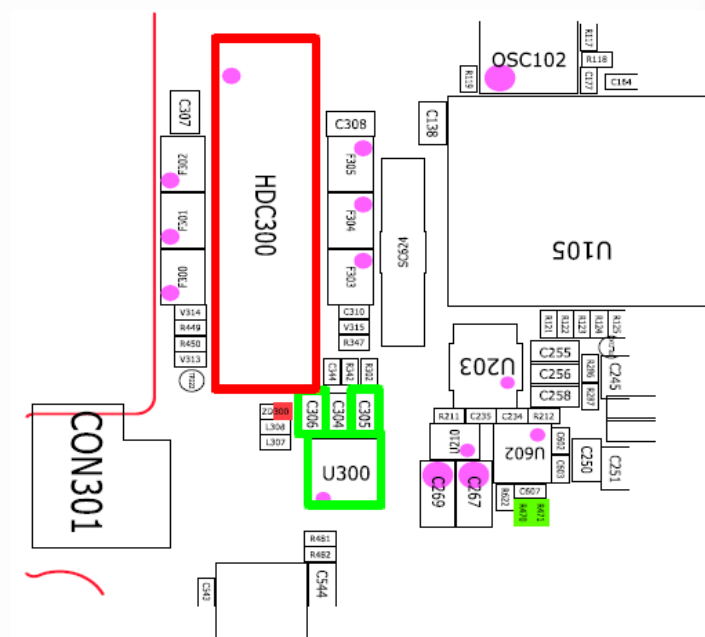
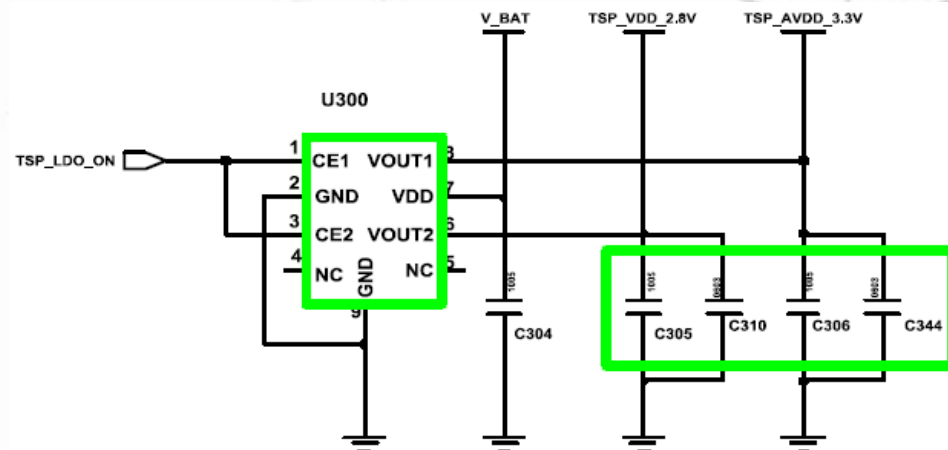
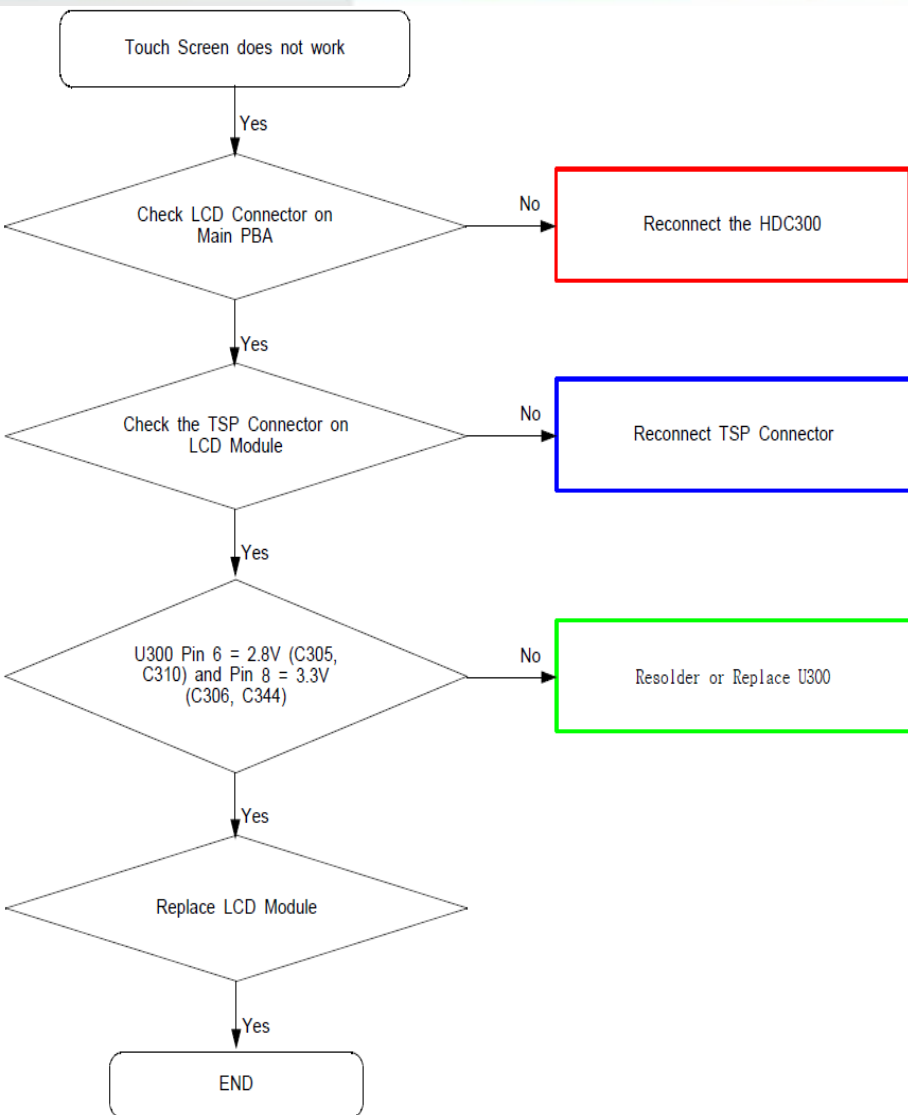
END

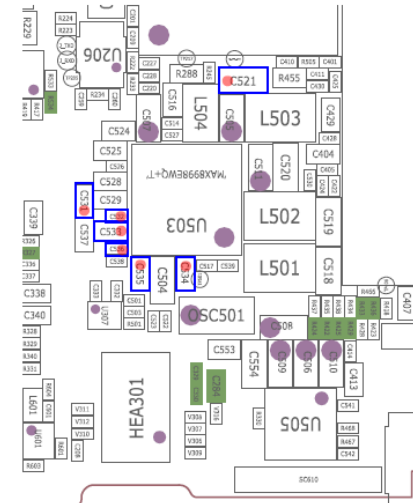
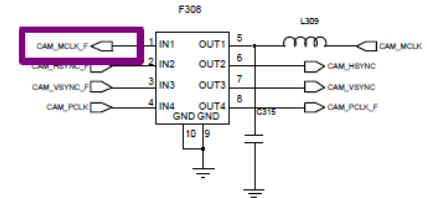
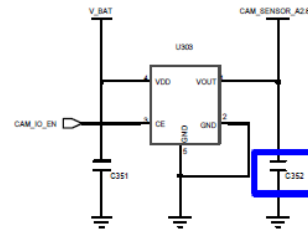
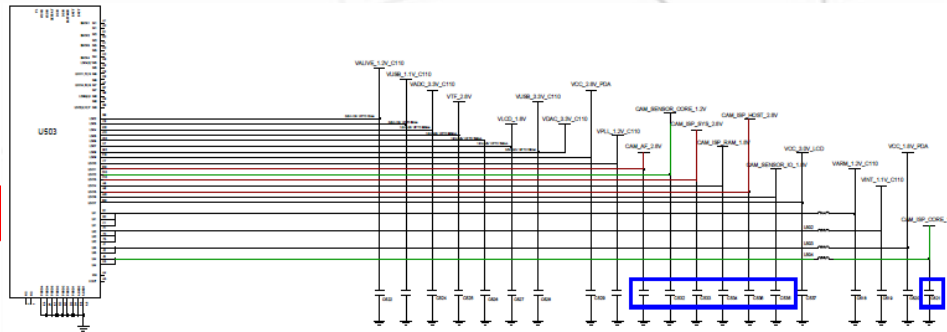
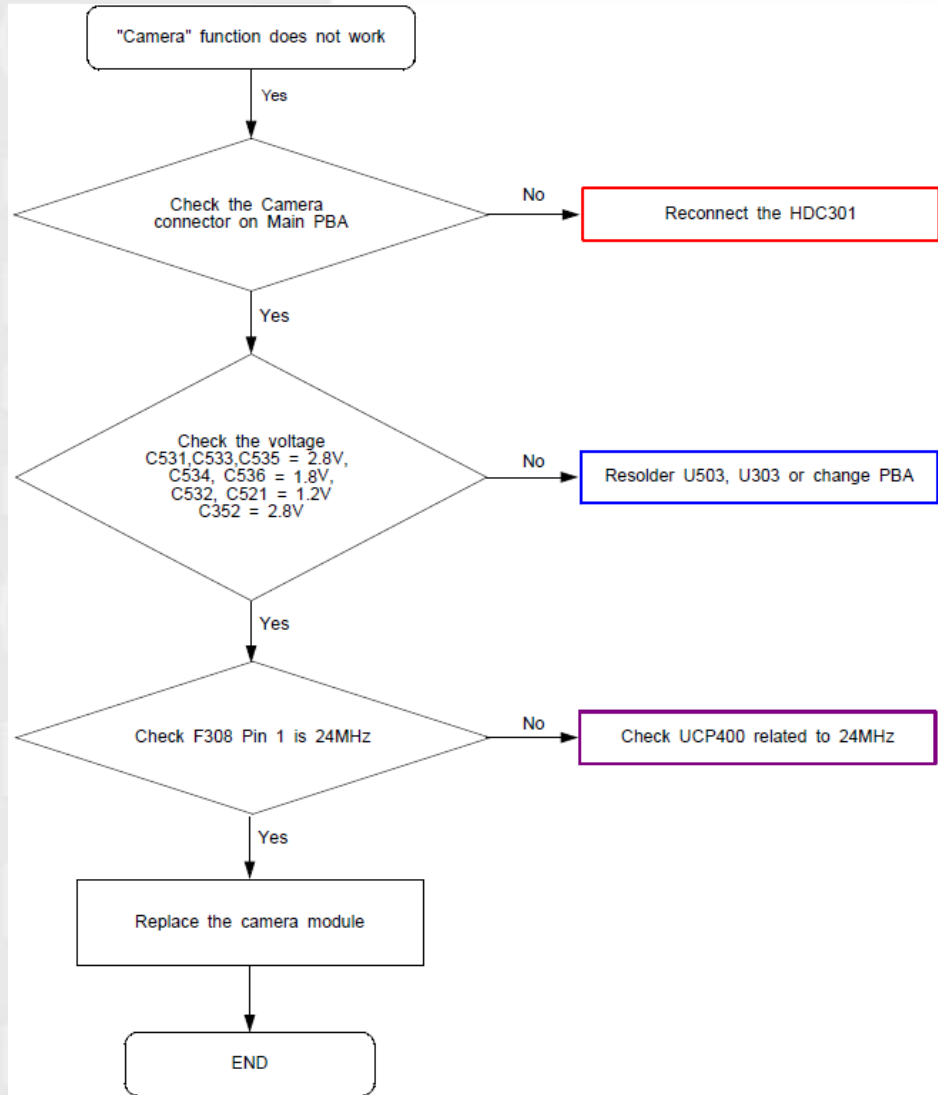




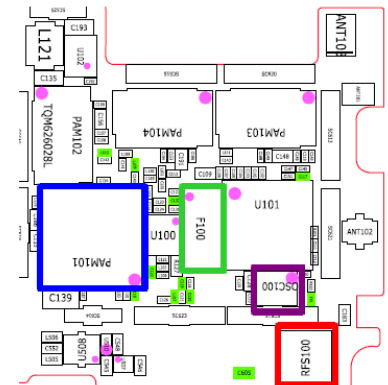
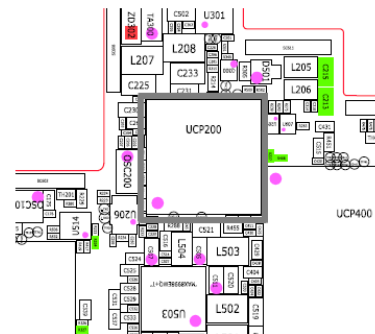
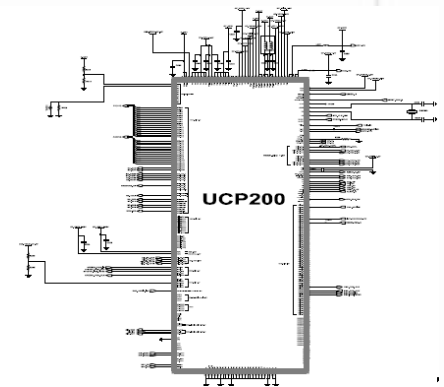
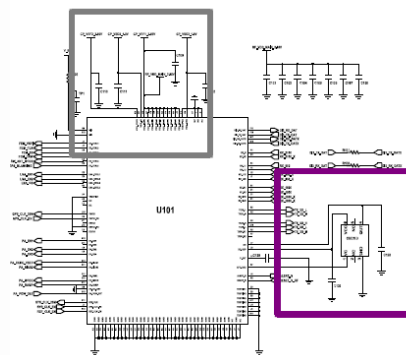
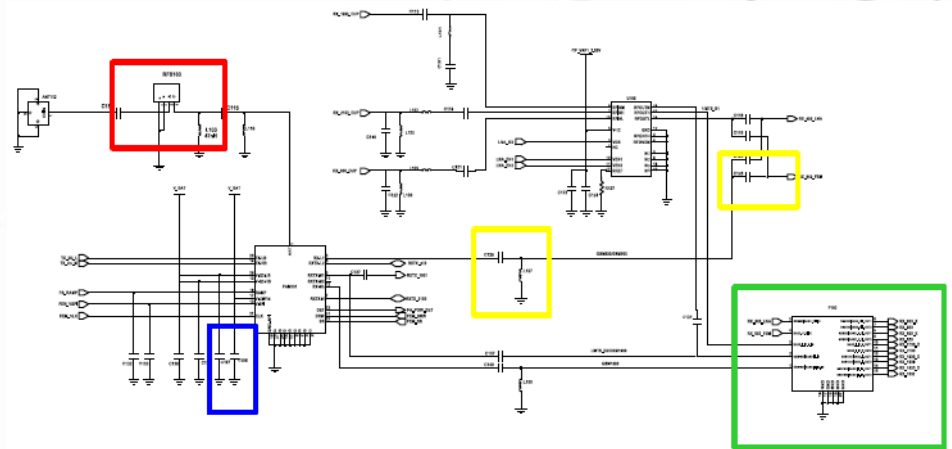
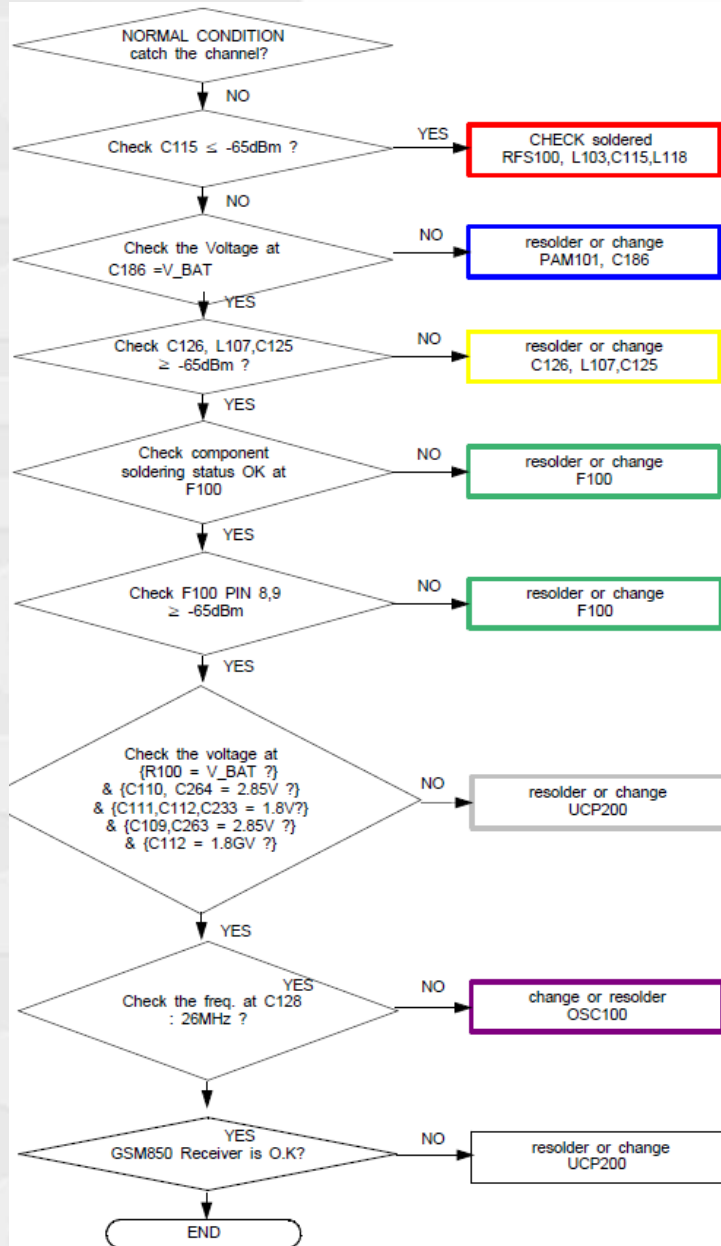




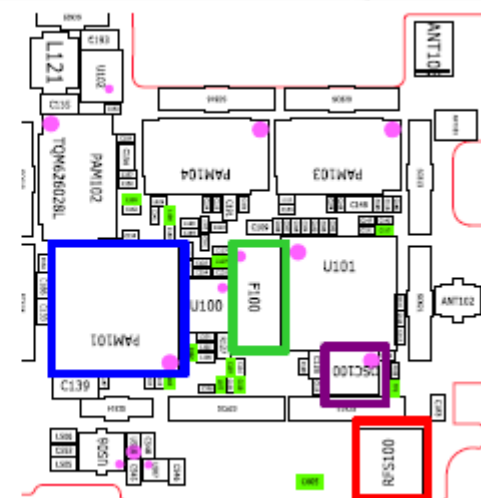
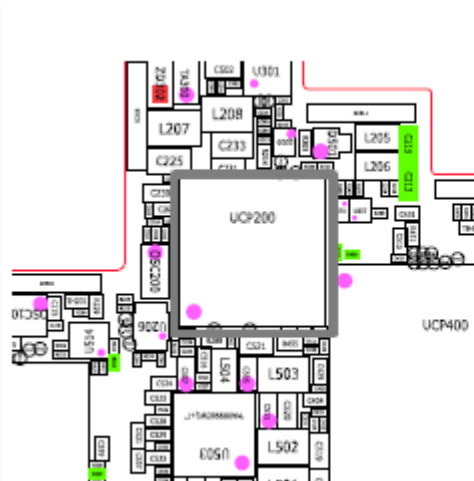
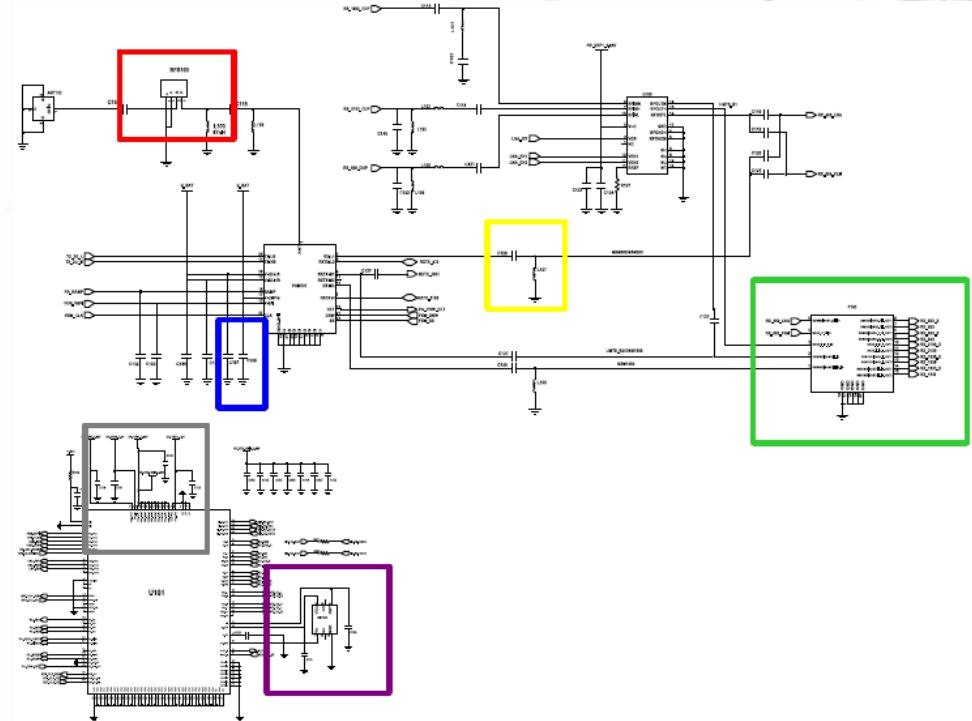
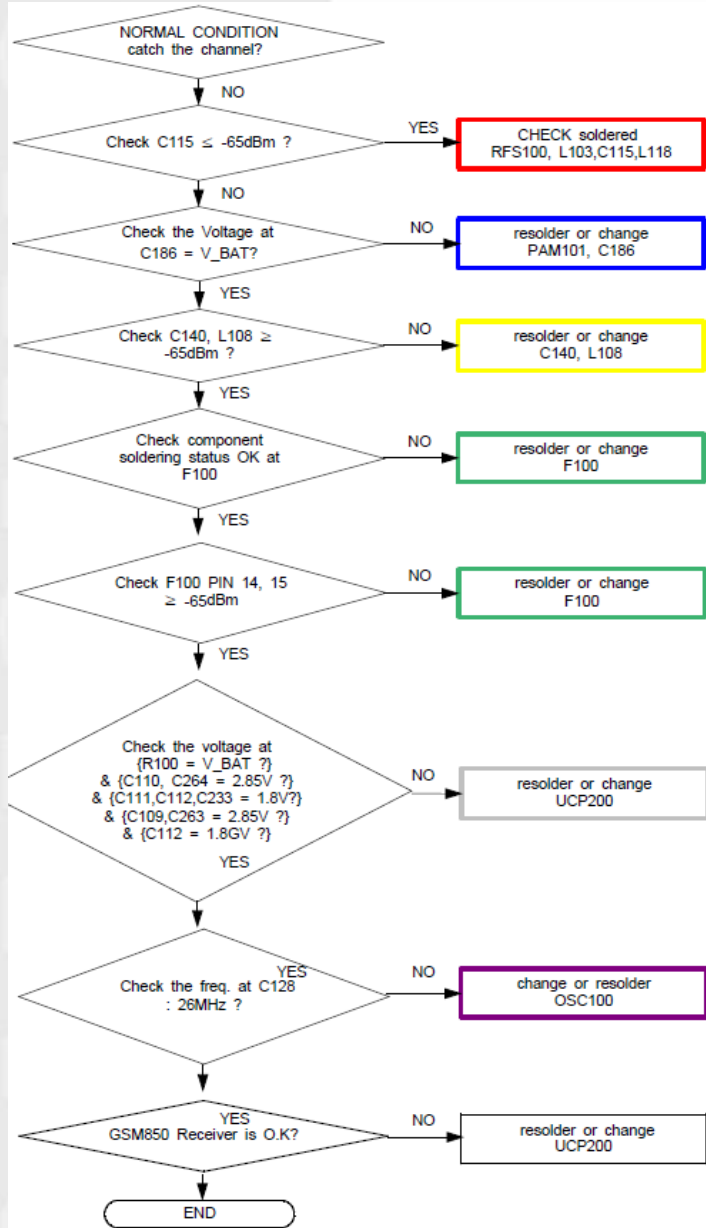


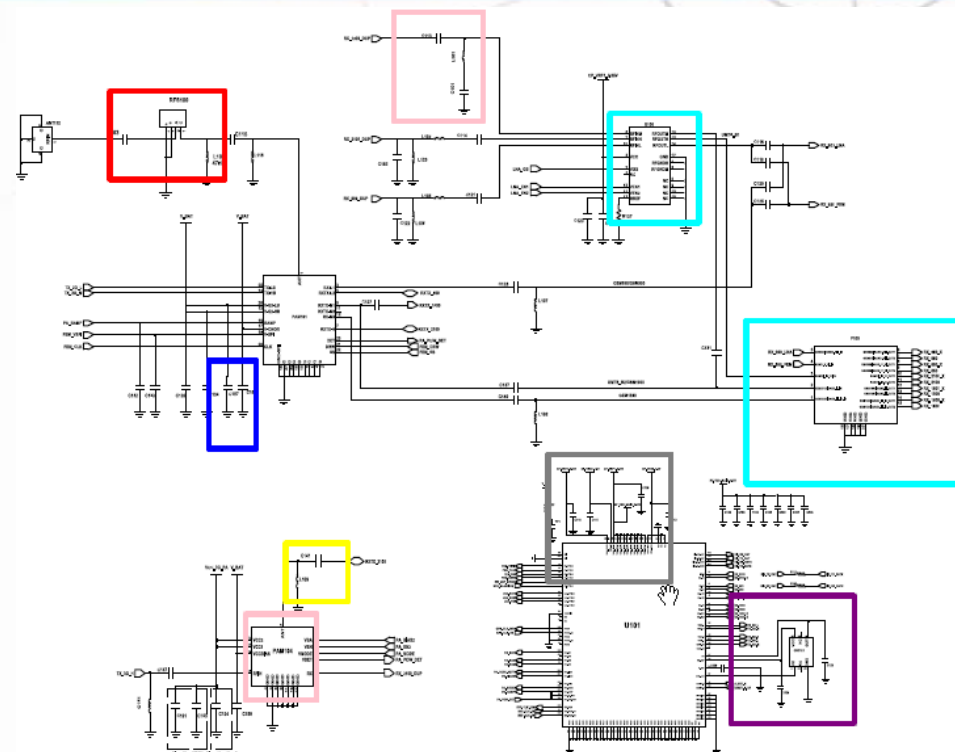
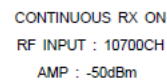


GSM 850 RX

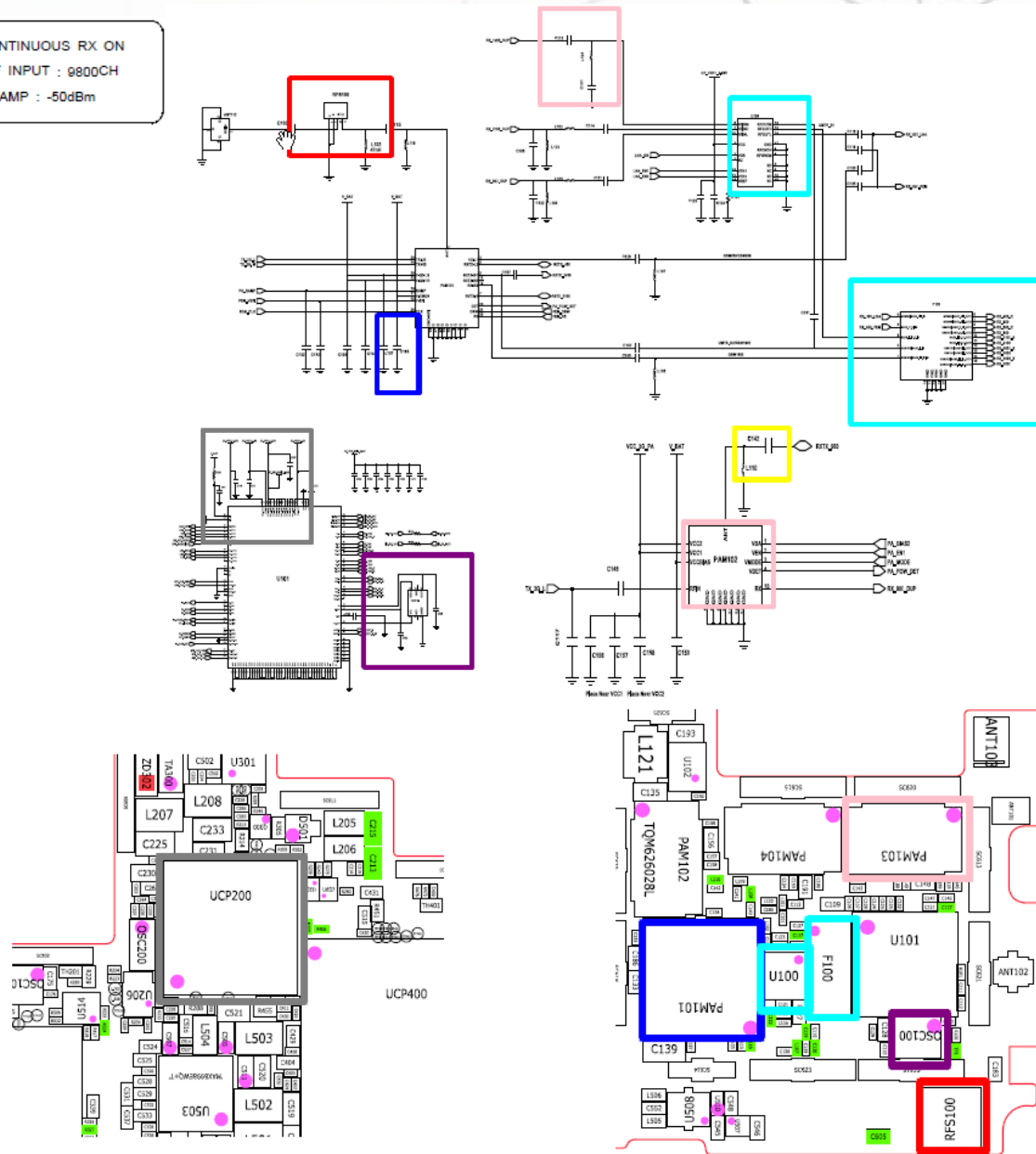
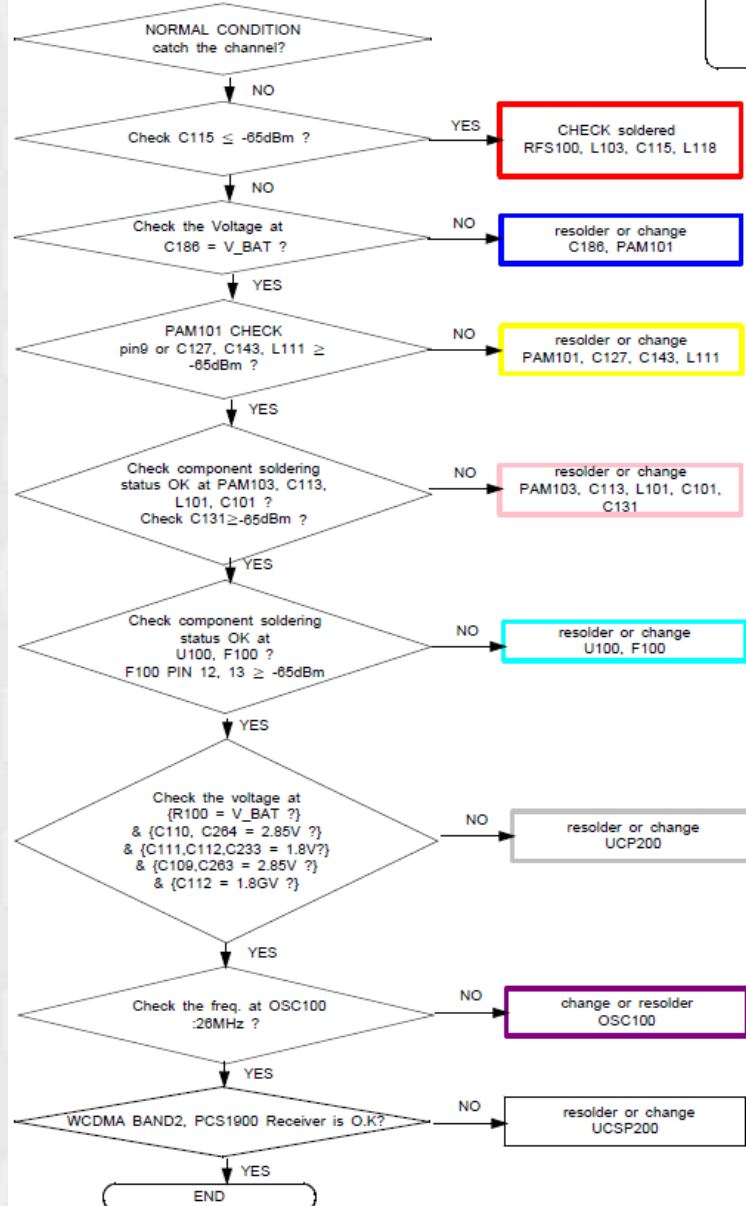


GSM 1800 RX

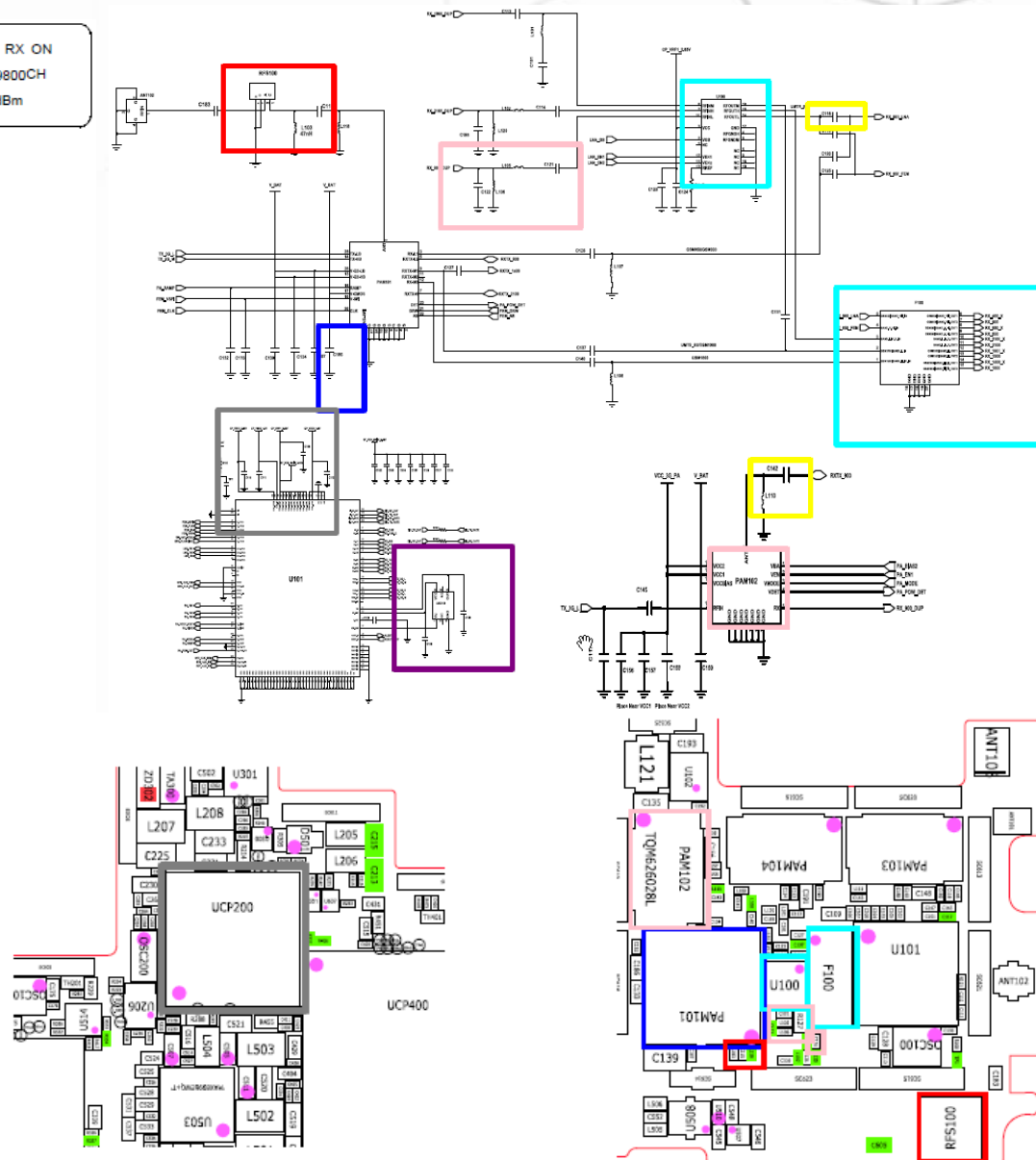
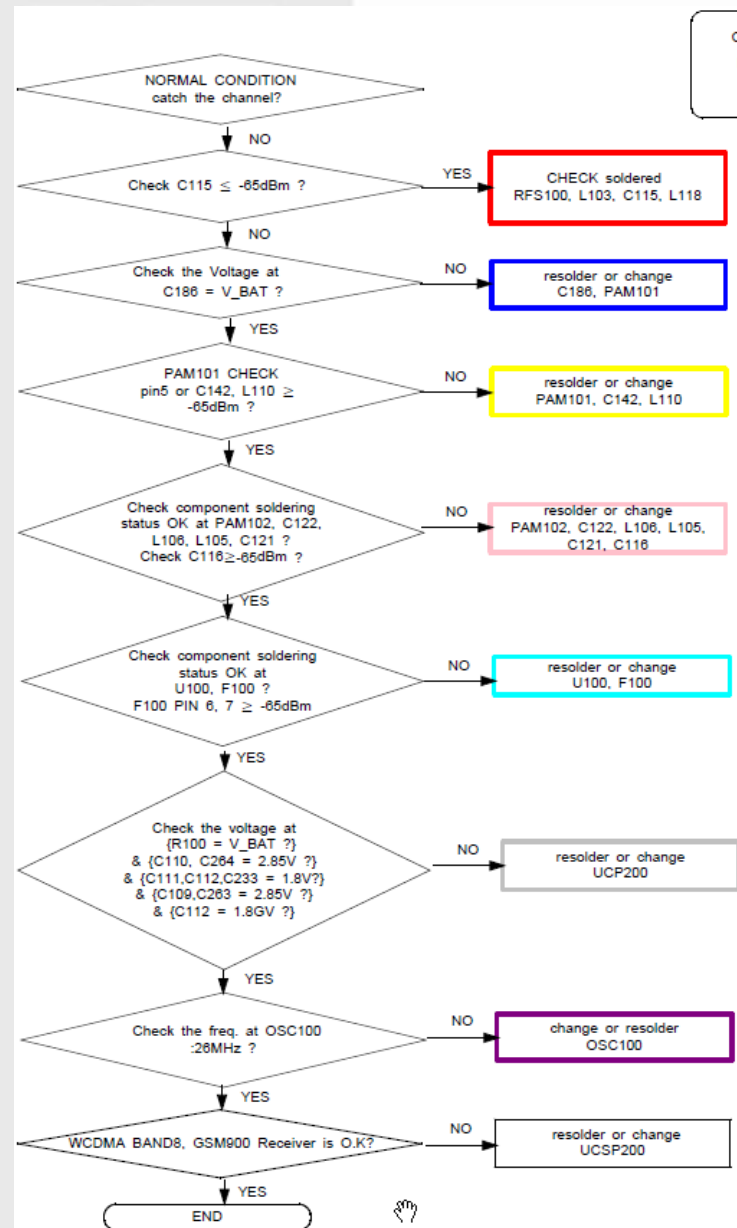




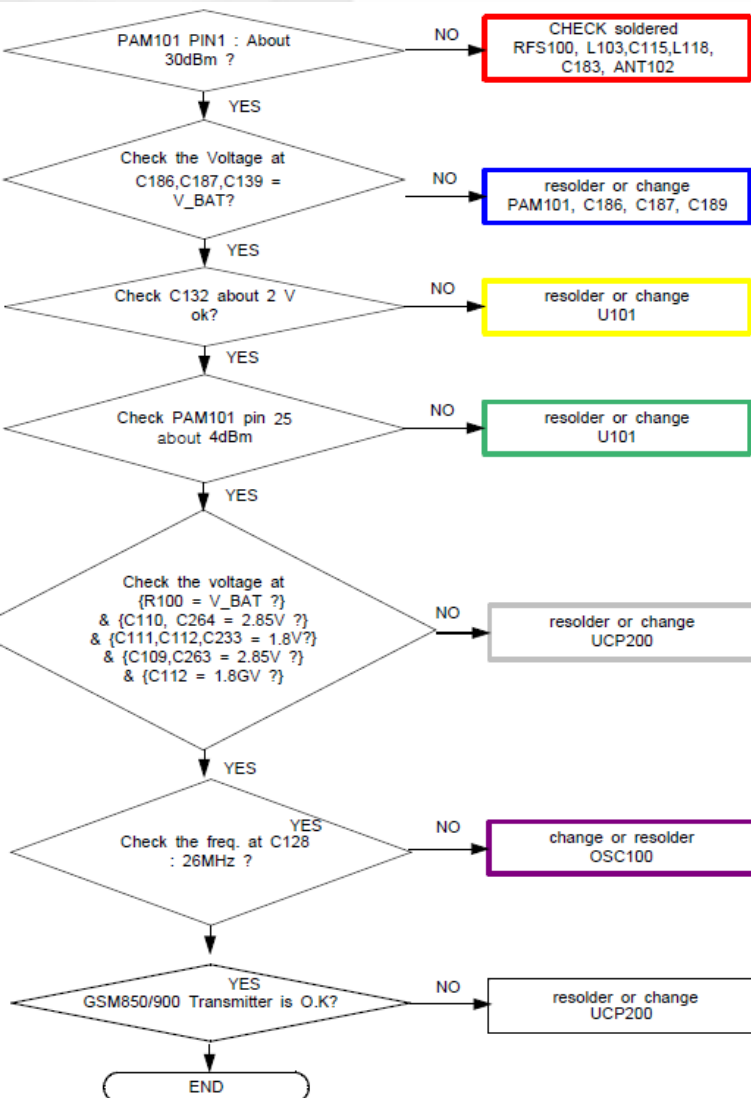
WCDMA Band2 / GSM 1900 RX



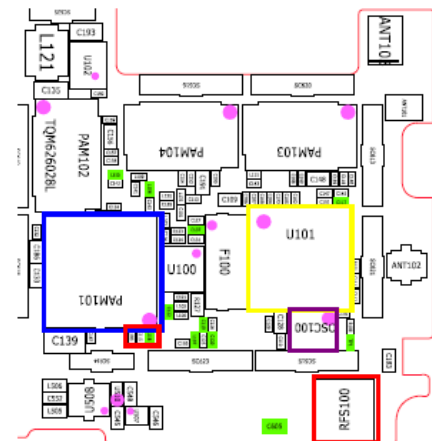
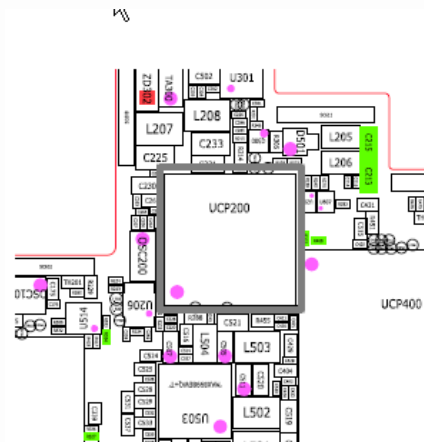
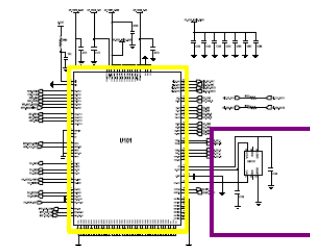
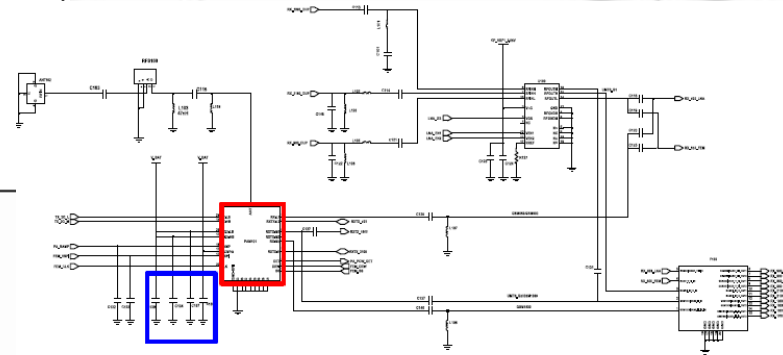
WCDMA Band8 / GSM 900 RX



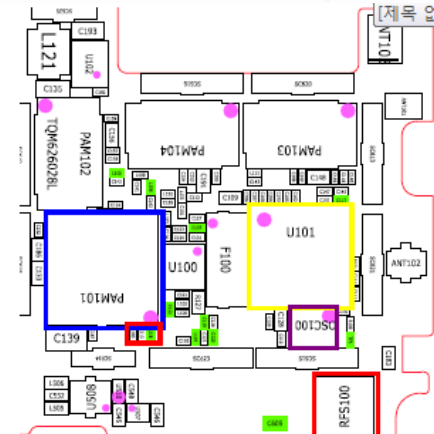
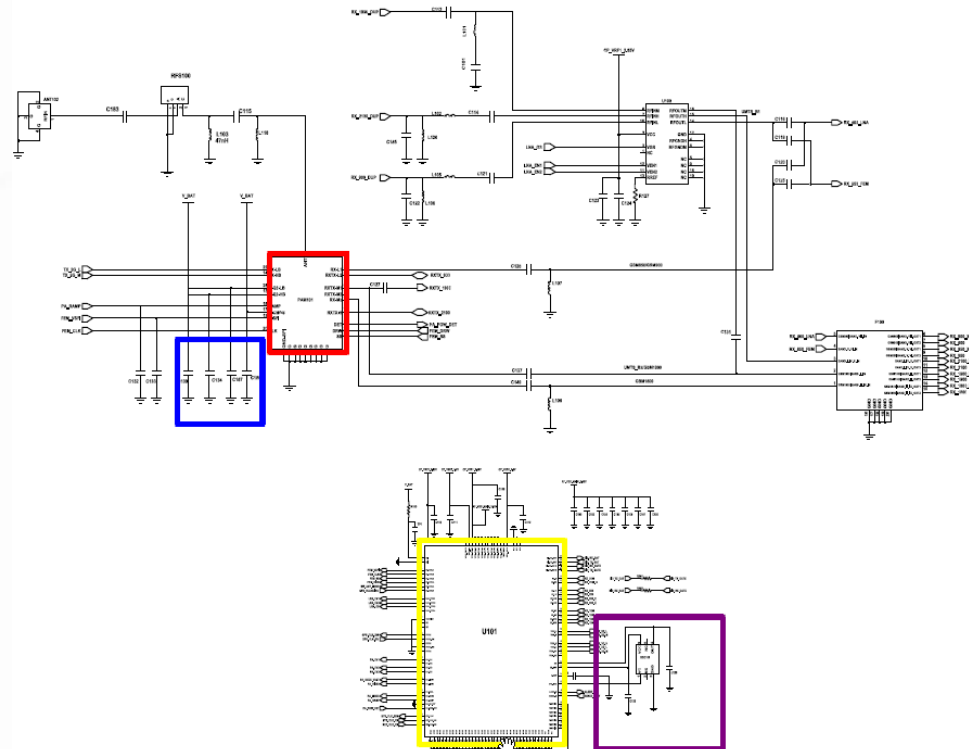
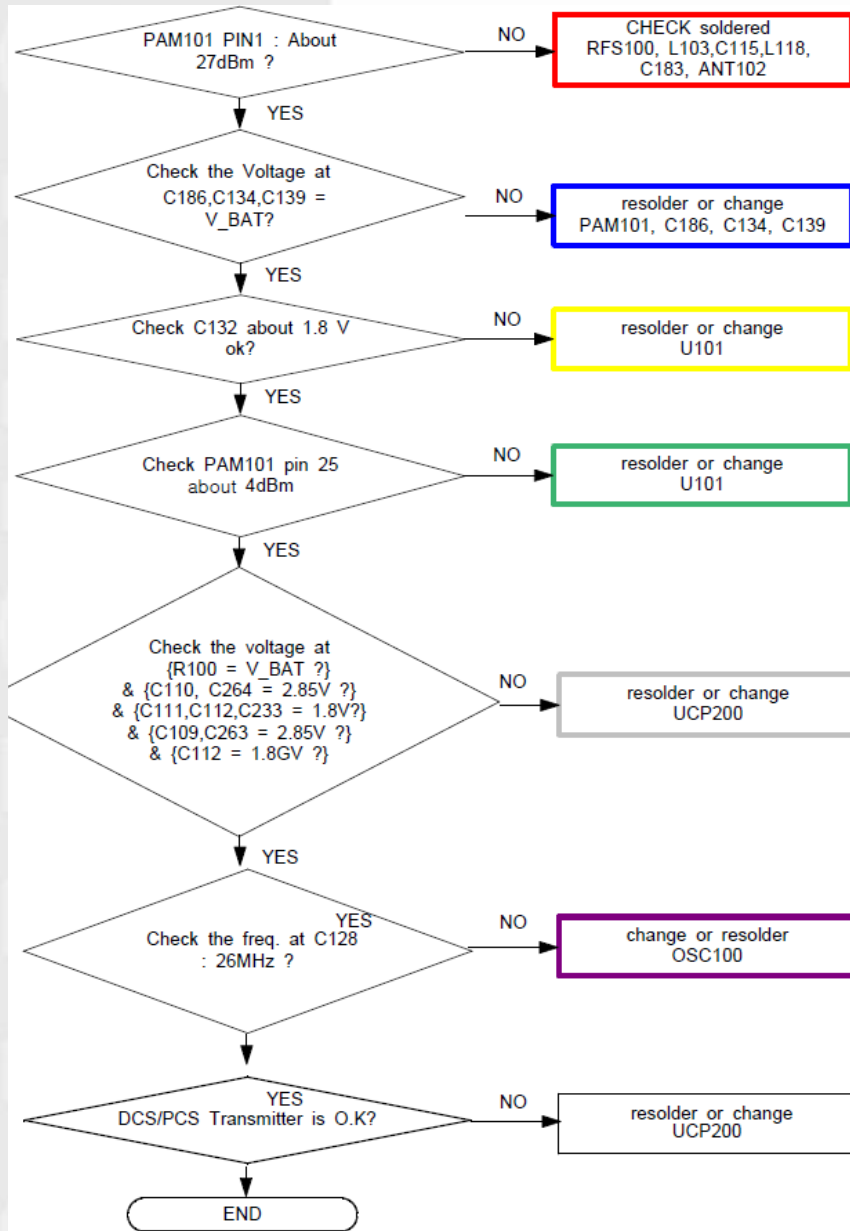
GSM 850 / GSM 900 TX



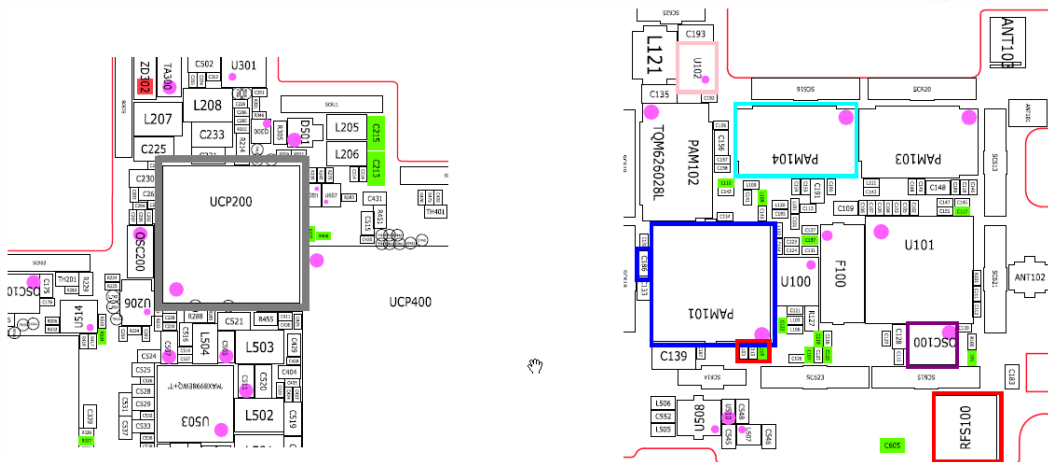
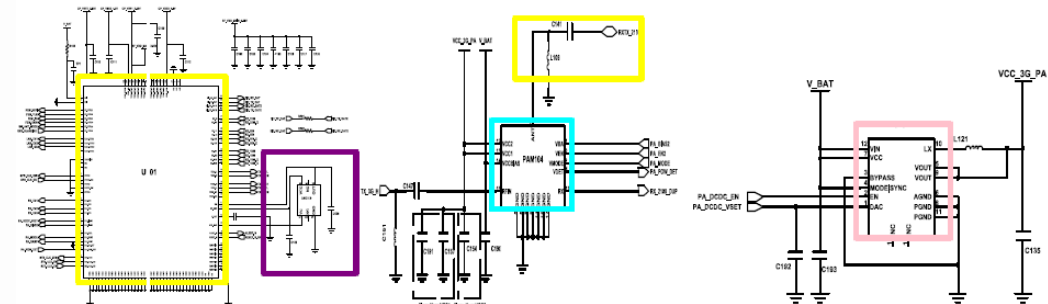
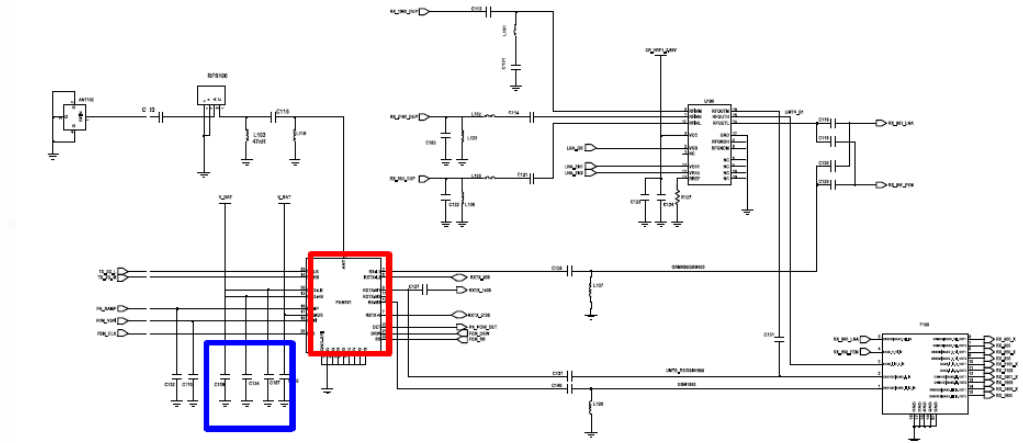
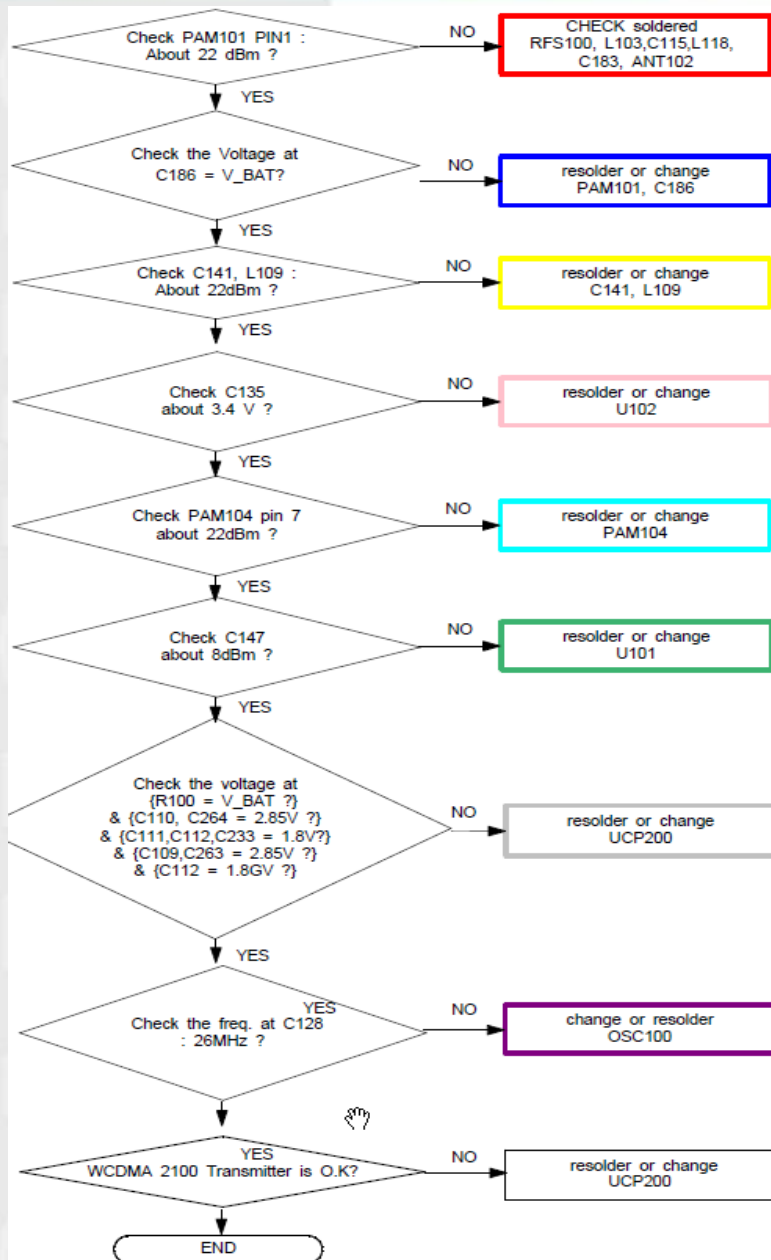
CONTINUOUS TX ON CONDITION
TX POWER DAC:14500 CODE
APPLIED
GSM850 CH : 190
GSM900 CH : 62
RBW : 100KHz
VBW : 100KHz
SPAN : 10MHz
REF LEV. : 10dBm
ATT. : 20dB



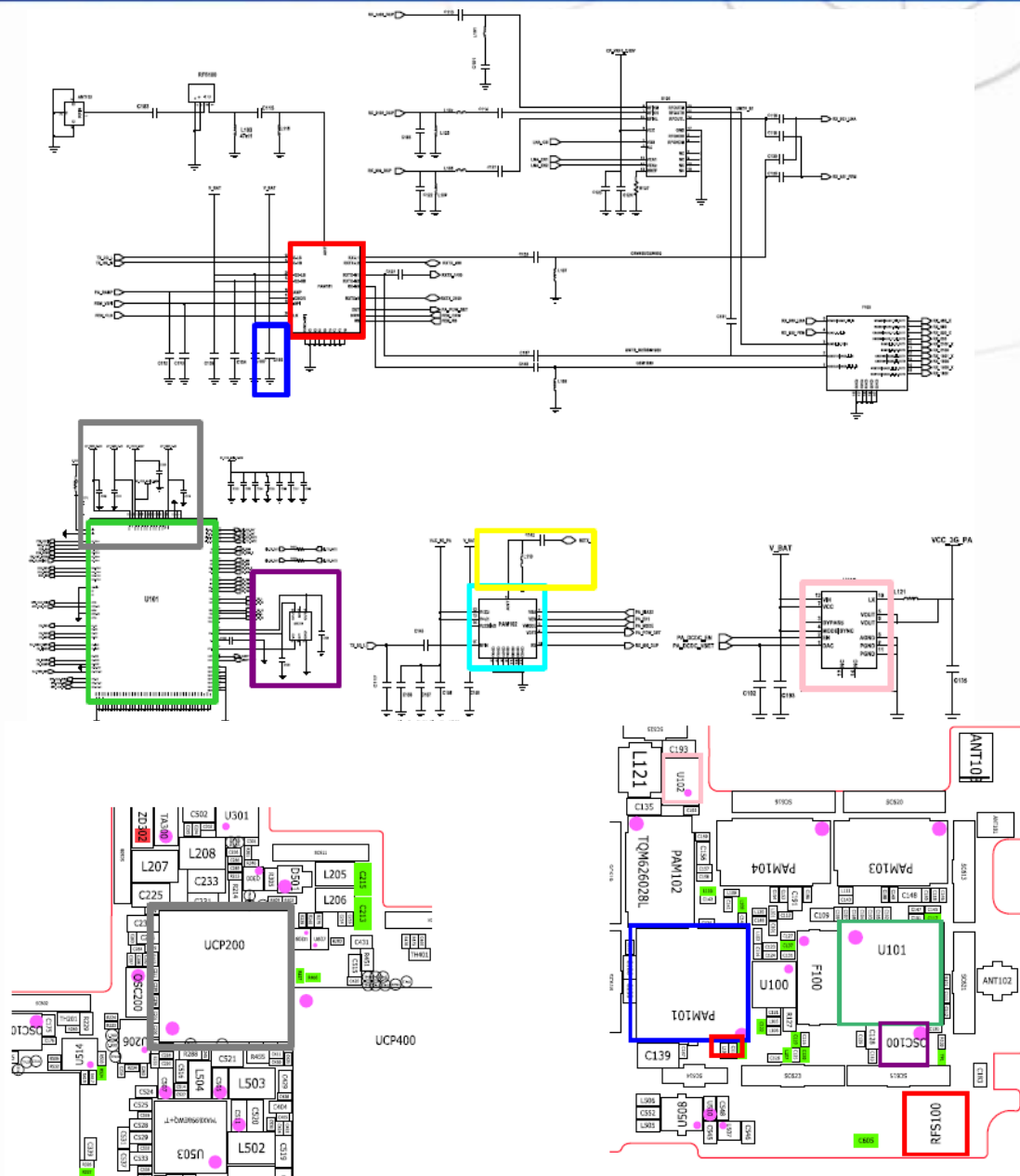
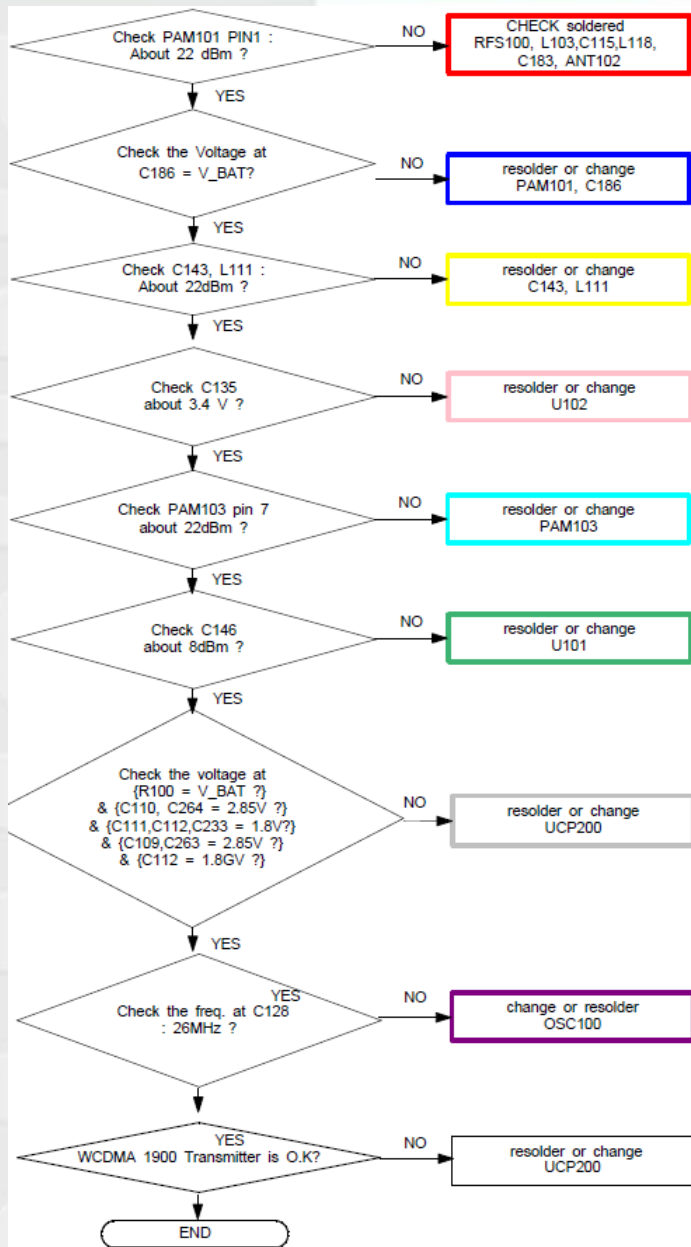
DSC/PCS TX



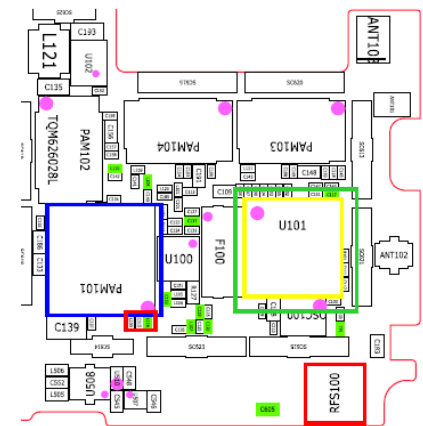
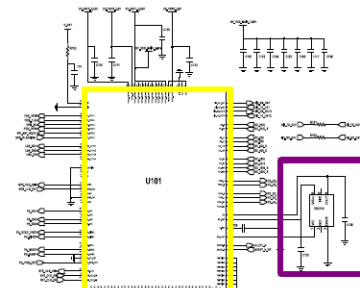
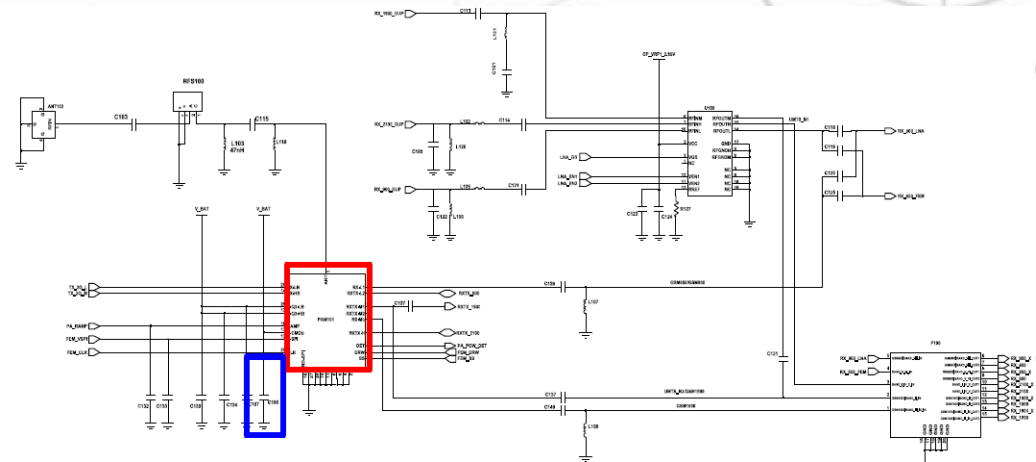
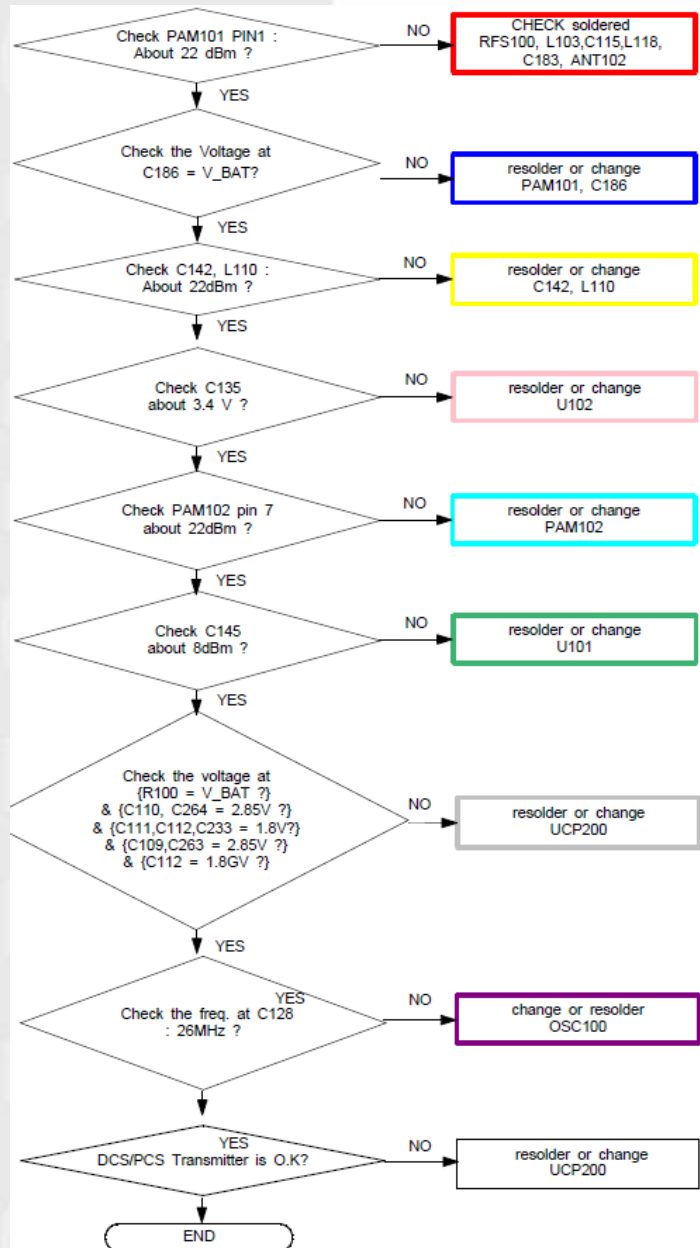
WCDMA Band1 TX



WCDMA Band2 TX



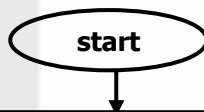
WCDMA Band3 TX



Contents

- ❑ Concept & Main features
- ❑ Block Diagram
- ❑ Component & Location
- ❑ Disassembly and Assembly
- ❑ Troubleshooting
- ❑ Calibration

Calibration



Calibration Option

☐ Manual Calibration START

☒ Auto Calibration ☐ Skip Auto Cal

Calibration Cycle

Cycle: 1 Week

Day: Monday

Time: 17 : 00

Cal Factor

☒ SpectrumMonitor

☐ Others

OK



Config Test

MODEL INFO

MODEL: GT-I9000_CAL_V010

H/W Version: PV0.800

Power-On Delay: 40 secs.

P_Supply Delay: 0 secs.

Sleep Test Delay: 0 secs.

LCD Contrast: 192 [176 -

USER SELECT

[SELECT THE LINE]

☒ Auto Cell [Only CAL]

☐ Block Cell [Cal+Final]

☐ 1 Person Cell

☒ FDT OPTION

☐ REAL CAL MODE

☐ Pre-Process Check

☐ Loop Test

☐ DGS Read

Seperating Option

☐ RF Calibration Seperating

☐ CMU200 RF1 & RF2 [B99/U99 Option Need]

Additional Setting

☒ Anyway JIG

☐ NV Verification

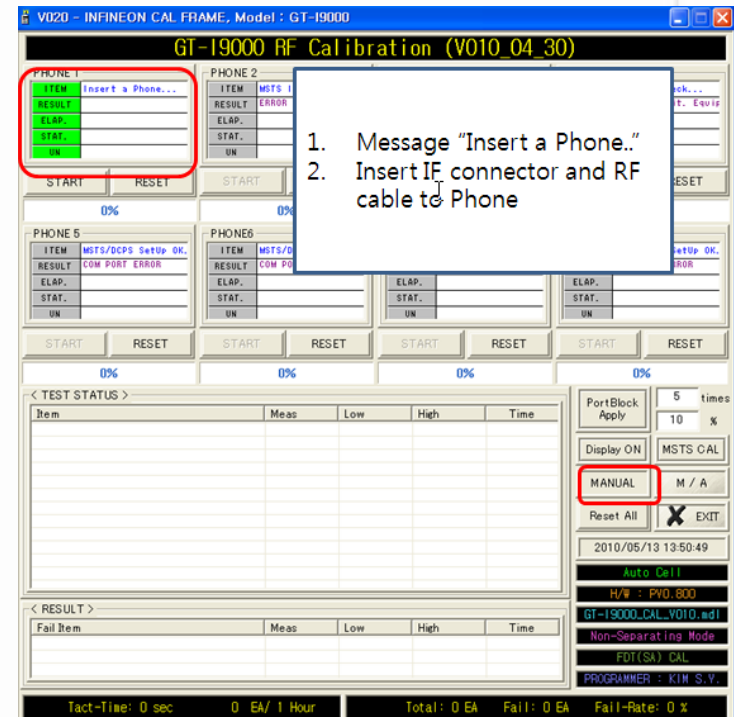
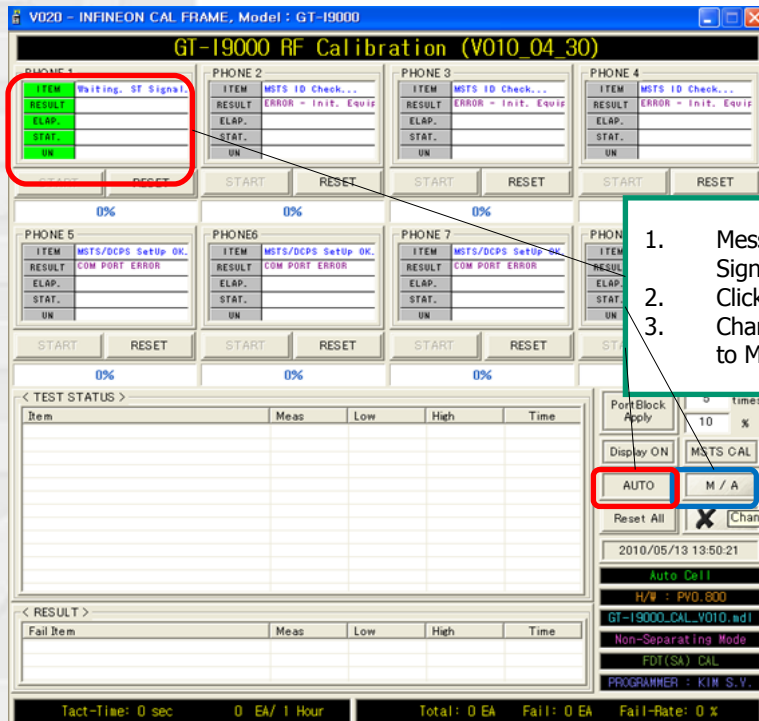
PC NUM[PN] : 0

✓ O.K. ✗ CANCEL

1. Pre-Process : un-check
2. DGS Read : un-check
3. FDT Option : if you have License : check , no-License : un-check



Calibration



- THE END -