

SAMSUNG

UMTS TELEPHONE

SGH-ZV50

SERVICE *Manual*

UMTS TELEPHONE



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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 specipcty 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

		EGSM 900	DCS1800	PCS1900	W-CDMA
Freq. Band[MHz] Uplink/Downlink		880~915 925~960	1710~1785 1805~1880	1850~1910 1930~1990	1920~1980 2110~2170
ARFCN range		0~124 & 975~1023	512~885	512~810	UL:9612~9888 DL:10562~10838
Tx/Rx spacing		45MHz	95MHz	80MHz	190MHz
Mod. Bit rate/ Bit Period		270.833kbps 3.692us	270.833kbps 3.692us	270.833kbps 3.692us	3.84Mcps
Time Slot Period/Frame Period		576.9us 4.615ms	576.9us 4.615ms	576.9us 4.615ms	Frame length : 10ms Slot length : 0.667ms
Modulation	GSM/ GPRS	0.3GMSK	0.3GMSK	0.3GMSK	QPSK HQPSK
	EDGE	8PSK	8PSK	8PSK	
MS Power		33dBm~5dBm	30dBm~0dBm	30dBm~0dBm	24dBm ~ - 50dBm
Power Class		4 (max +33dBm)	1 (max +30dBm)	1 (max +30dBm)	3 (max +24dBm)
Sensitivity		-102dBm	-100dBm	-100dBm	-106.7dBm
TDMA Mux		8	8	8	
Cell Radius		35Km	2Km	2Km	2Km

2-2. GSM TX power class

TX Power control level	GSM900	TX Power control level	DCS1800	TX Power control level	PCS1900
5	33±2 dBm	0	30±2 dBm	0	30±2 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±4 dBm	9	12±4 dBm
15	13±2 dBm	10	10±4 dBm	10	10±4 dBm
16	11±3 dBm	11	8±4dBm	11	8±4dBm
17	9±3dBm	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

- 2.0Megapixel Camera
- 2.0" MAIN QVGA TFT Screen (262K color)
- 1.07" SUB TFT Screen(65K color)
- Video Telephony & Streaming
- Music Player(MP3/AAC/AAC+)
- Bluetooth Wireless Technology
- Multimedia Message Service (MMS)
- E-mail
- Voice recorder
- Java / WAP2.0
- Quadband (900/1800/1900/2100Mhz)

4. Array course control

Test Jig (GH80-03308A)



Test Cable (GH39-00446A)



Power Supply Cable

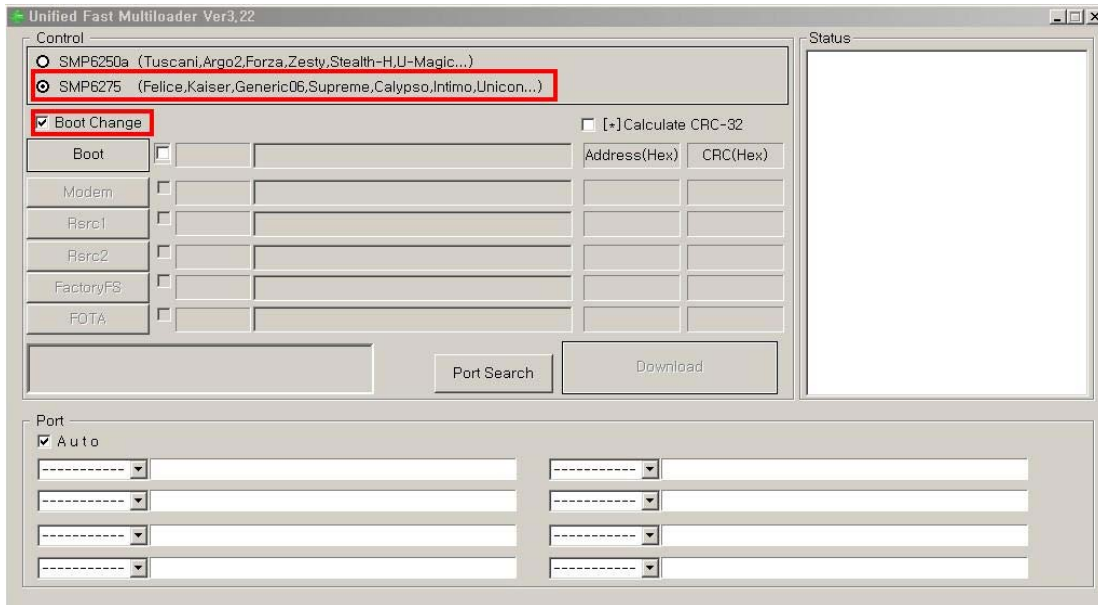


DATA CABLE
(GH39-0437B)

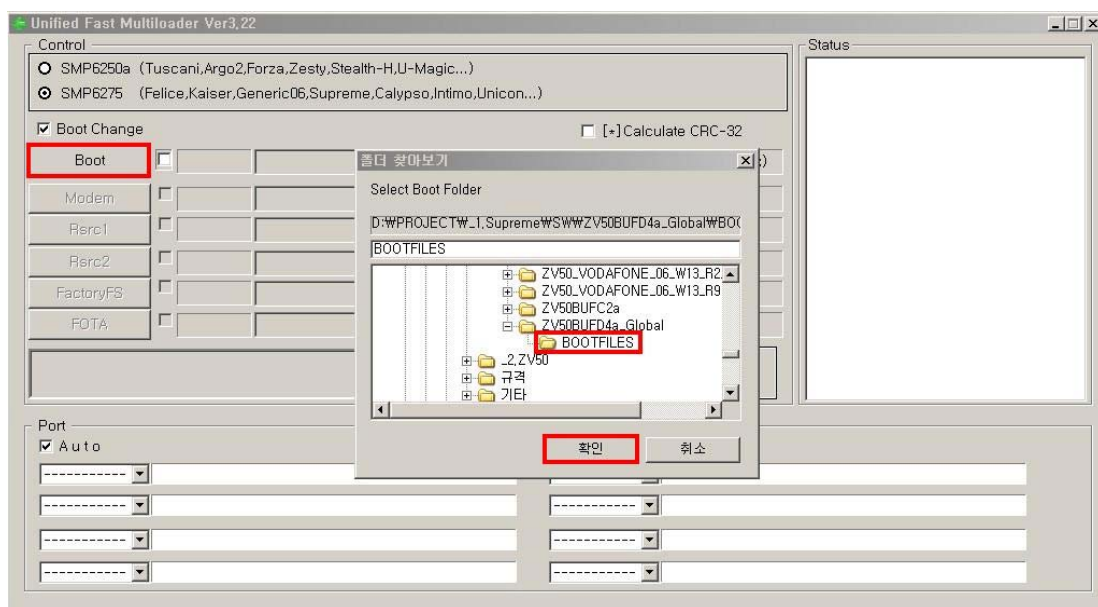


4-3. S/W Downloader Program

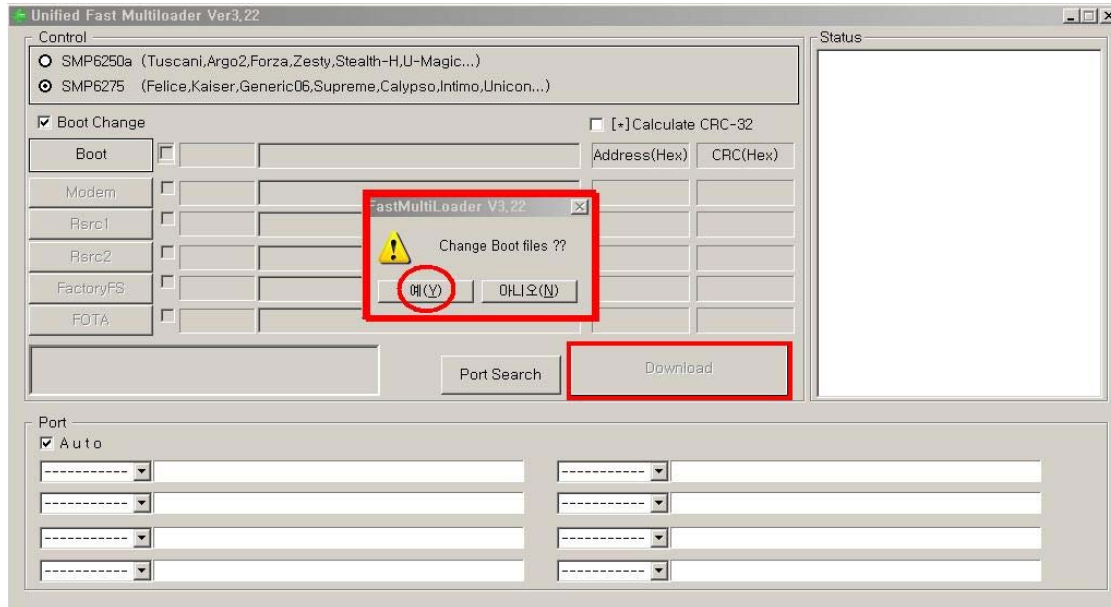
1. Boot the ZV50 by pressing 'Power ON key' + 'Number 9 key' at the same time-
If you do properly, you can see the following message on sub LCD "DOWNLOAD"
2. Load the binary download program by executing the **"FastMultiloader3.22.exe"**
Select the check box **"SMP6275"** and **"Boot Change"**.



3. Press the "Boot" and Select the "BOOTFILES" folder.



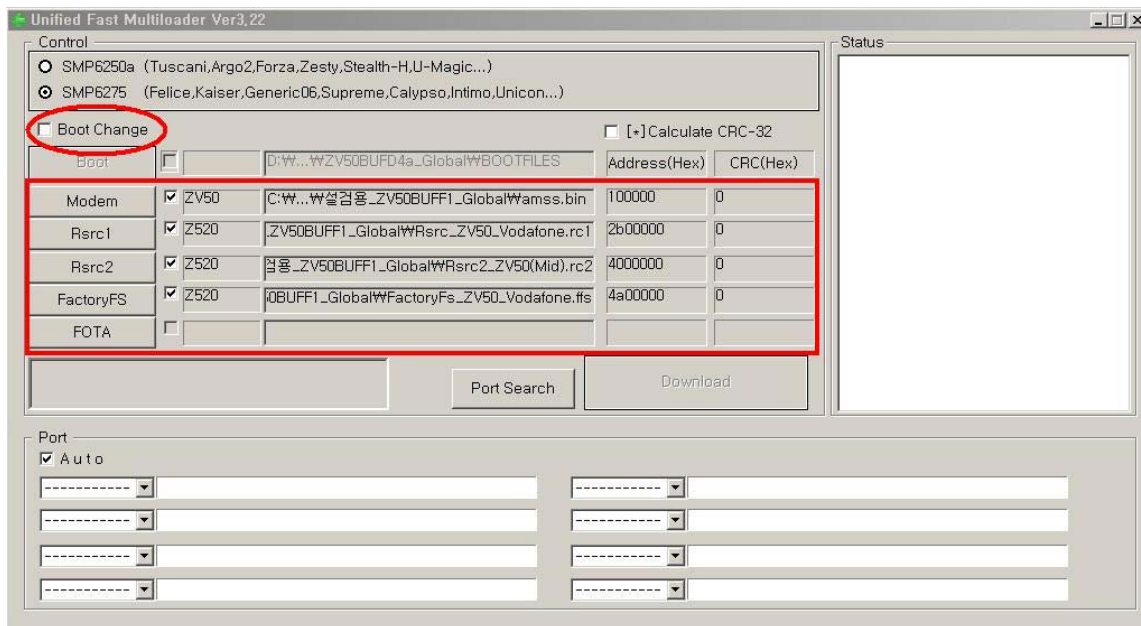
4. When you see the pop up window = **Change Boot files??** → Choose **Y**, and then Press the **Download** button.



- ※ The boot file downloading is completed !!!
Now, Download the binary files. (amss.bin, FactoryFs.ffa, Rsrc.rc1, Rsrc.rc2)

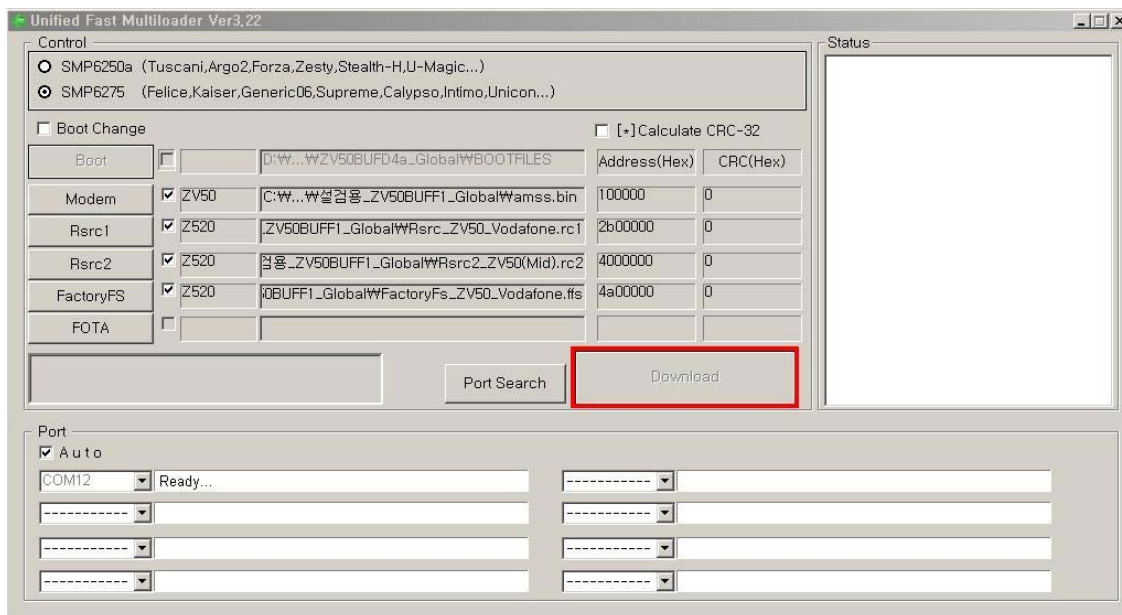
5. Take off the battery(=Power off), and insert the battery again.
6. Boot ZV50 by pressing 'Power ON key' + 'Number 9 key' at the same time-
If you do properly, you can see the following message on sub LCD "DOWNLOAD"
7. Unselect the Boot Change check box.
then Select the binary files what you want to download.

Modem : amss.bin
Rsrc1 : Rsrc_ZV50_Vodafone.rc1
Rsrc2 : Rsrc2_ZV50.rc2
FactoryFS : FactoryFs_ZV50_Vodafone.ffa



* Up to eight ports are supported.

8. Now press the button 'DownLoad'.

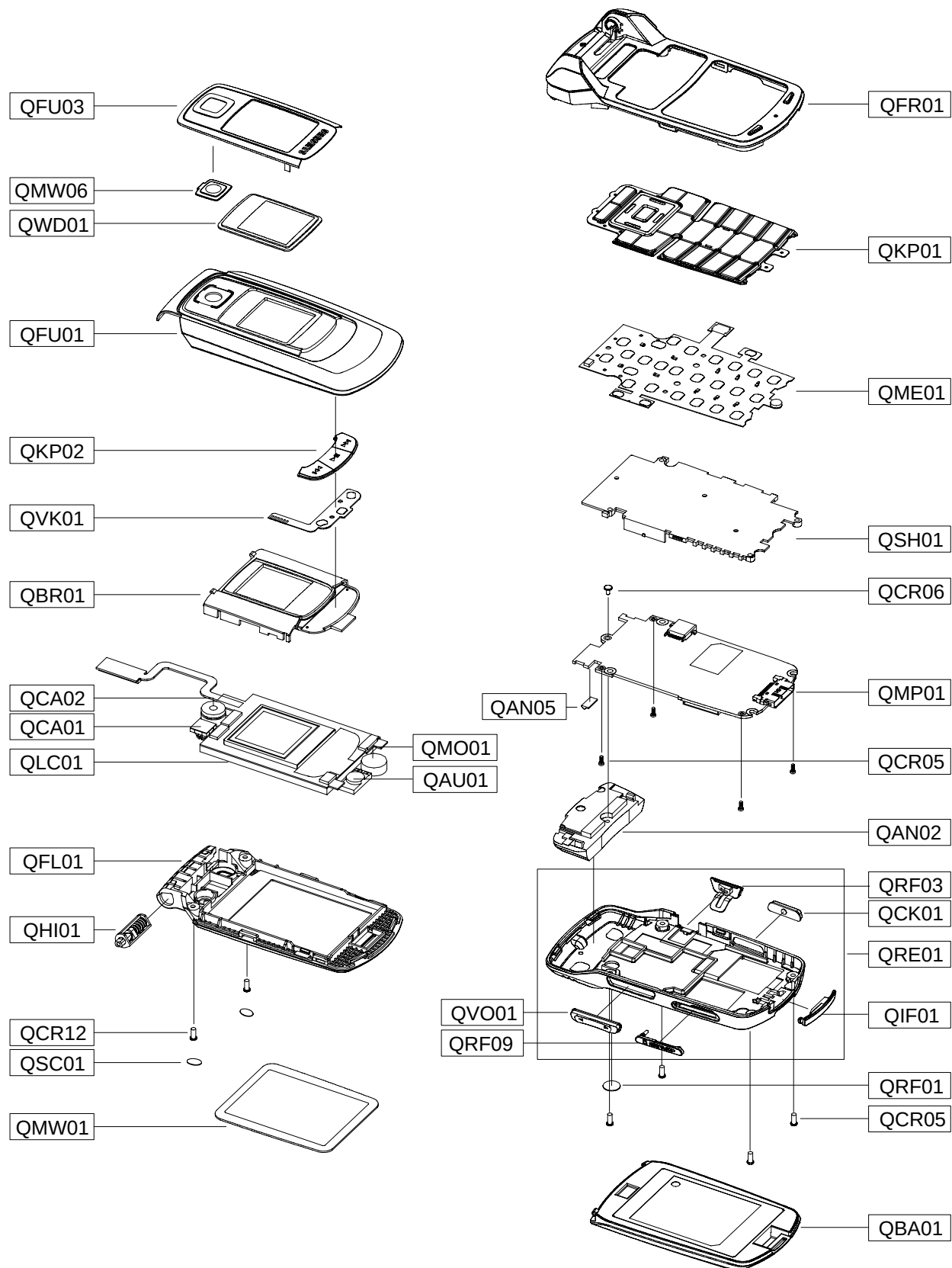


※ The downloading is completed !!!

9. When downloading is complete, UE reboot automatically.
 - If there is difference in FactoryFs.bin, UE will format file system automatically.

5. Exploded View and Parts list

5-1. Cellular phone Exploded View



5-2. Cellular phone Parts list

Design LOC		Description	SEC CODE
QAN02		INTENNA-SGH ZV50	GH42-00850A
QAN05		MEC-INTENNA CONTACT	GH75-08168A
QAU01		AUDIO-RECEIVER	3009-001127
QBA01		BATTERY-900MAHSILVERMAIN	GH43-02456A
QBR01		ASSY-BRACKET-MP3 KEY	GH98-01023A
QCA01		UNIT-CAMERA(SELF)	GH59-03008A
QCA02		UNIT-CAMERA(REC)	GH59-03009A
QCR05		SCREW-MACHINE	6001-001478
QCR05		SCREW-MACHINE	6001-001478
QCR06		SCREW-MACHINE	6001-001155
QCR12		SCREW-MACHINE	6001-001530
QFR01		ASSY ACCE-FRONT COVER	GH98-01021A
QFU01		ASSY ACCE-FOLDER UPPER	GH98-01019A
QFU03		ICT-DECO FOLDER UPPER V2	GH70-01356A
QKP01		ASSY-KEY-KEYPAD MAIN	GH98-01027A
QKP02		ASSY-KEY-KEY FOLD(MP3)	GH98-01025A
QLC01		MEA-LCD MODULE KIT	GH97-06078A
QME01		UNIT-KEY PAD	GH59-03120A
QMO01		MOTOR DC-SGHZ520	GH31-00248A
QMP01		PBA MAIN-SGH-ZV50	GH92-02758A
QMW01		ASSY-COVER-MAIN WINDOW	GH98-01028A
QMW06		PCT-MEGA WINDOW	GH72-31014A
QRE01		ASSY CASE-REAR(SFR)	GH98-01487A
QRF01		MPR-SHEET RF COVER	GH74-23730A
QSC01		MPR-SHEET SCREW COVER	GH74-23862A
QSH01		ASSY-BRACKET-SHIELD	GH98-01024A
QVK01		UNIT-MP3 KEY	GH59-03154A
QWD01		PCT-SUB WINDOW	GH72-31015A
QRF03		PMO-COVER EAR V4	GH72-31004A
	QIF01	PMO-COVER IF V4	GH72-31007A
	QRF09	PMO-COVER MICRO SD	GH72-31008A
	QVO01	PMO-VOUME KEY V3	GH72-31010A
	QCK01	PMO-CAMERA KEY V3	GH72-31012A
QFL01		ASSY ACCE-FOLDER LOWER	GH98-01020A
	QHI01	MEC-HINGE ASSY	GH75-04334B

Description	SEC CODE
IC-MEMORY CARD	1109-001332
CONNECTOR-ADAPTOR	3719-001319
CARD-WARRANTY	6801-001501
BAG PE	6902-000634
BAG ZIPPER	6902-000658
CBF INTERFACE-DATA LINK CABLE	GH39-00431B
CHARGER-SGHZ310 TA	GH44-01080A
S/W CD-PC STUDIO	GH46-00252A
UNIT-EARPHONE	GH59-02316A
LABEL(P)-WATER SOAK	GH68-02026A
LABEL(P)-WATER SOAK	GH68-02026A
MANUAL USERS-VDPNFRENCH	GH68-09570A
LABEL(R)-MAIN(FRAN)	GH68-10901C
CUSHION-CASE(VODA)	GH69-03796A
BOX(P)-UNIT(SFR)	GH69-03797B
MPR-BOHO VINYL LCD CONN	GH74-15350A
MPR-SHEET LCD BOTTOM	GH74-23718A
MPR-SHHET FRONT SHIELD	GH74-23719A
MPR-SHEET LCD TOP A	GH74-23721A
MPR-SHHET LCD TOP B	GH74-23722A
MPR-TAPE EMI LOWER LCD R	GH74-23725A
MPR-TAPE EMI LOWER LCD L	GH74-23727A
MPR-TAPE GASKET LCD TAIL	GH74-23728A
MPR-VINYL BOHO SUB WINDOW	GH74-23731A
MPR-VINYL BOHO FOLDER LOWER	GH74-23737A
MPR-VINYL BOHO FOLDER UPPER	GH74-24810A
MPR-VINYL BOHO FOLDER LOWER B	GH74-24811A
MPR-VINYL BOHO SUB WINDOW TOP	GH74-25032A
MPR-SPONGE IF CONN TOP	GH74-25370A
MPR-SPONGE VOL KEY HOLD	GH74-25573A
MPR-SPONGE LCD TAIL	GH74-25606A
AS-IC-MCP UMTS	GH81-04520A

6. MAIN Electrical Parts List

Design LOC	Discription	SEC Code	STATUS
ANT100	NPR-ANTENNA CONTACT	GH71-05666A	SNA
ANT101	NPR-ANTENNA CONTACT	GH71-05666A	SNA
ANT600	ANTENNA-CHIP	4202-001160	SA
BAT400	BATTERY-LI(2ND)	4302-001130	SA
BTC700	HEADER-BATTERY	3711-005897	SA
C100	C-CER,CHIP	2203-000812	SA
C101	C-CER,CHIP	2203-000254	SA
C102	C-CER,CHIP	2203-005682	SA
C103	C-CER,CHIP	2203-005806	SA
C104	C-CER,CHIP	2203-006194	SA
C105	C-FILM,SMD-PPS	2301-001213	SA
C106	C-CER,CHIP	2203-006423	SA
C107	C-CER,CHIP	2203-005682	SA
C108	C-CER,CHIP	2203-005682	SA
C109	C-CER,CHIP	2203-006423	SA
C110	C-CER,CHIP	2203-000233	SA
C111	C-CER,CHIP	2203-001124	SA
C112	C-CER,CHIP	2203-000812	SA
C113	C-CER,CHIP	2203-006423	SA
C114	C-CER,CHIP	2203-000812	SA
C115	C-CER,CHIP	2203-005061	SA
C116	C-CER,CHIP	2203-000885	SA
C117	C-CER,CHIP	2203-000330	SA
C118	C-CER,CHIP	2203-000995	SA
C119	C-CER,CHIP	2203-006423	SA
C120	C-CER,CHIP	2203-000438	SA
C121	C-CER,CHIP	2203-005682	SA
C122	C-CER,CHIP	2203-000254	SA
C123	C-CER,CHIP	2203-000233	SA
C124	C-CER,CHIP	2203-000812	SA
C126	C-CER,CHIP	2203-000995	SA
C127	C-CER,CHIP	2203-000254	SA
C128	C-CER,CHIP	2203-000725	SA
C129	C-CER,CHIP	2203-006423	SA
C130	C-CER,CHIP	2203-000836	SA
C131	C-CER,CHIP	2203-000812	SA
C132	C-CER,CHIP	2203-000854	SA
C133	C-CER,CHIP	2203-006423	SA
C134	C-CER,CHIP	2203-005682	SA
C135	C-CER,CHIP	2203-006423	SA
C136	C-CER,CHIP	2203-000812	SA
C137	C-CER,CHIP	2203-005806	SA
C138	C-CER,CHIP	2203-006556	SA
C139	C-CER,CHIP	2203-006348	SA
C140	C-CER,CHIP	2203-000812	SA
C141	C-CER,CHIP	2203-000812	SA
C142	C-CER,CHIP	2203-006208	SA
C143	C-CER,CHIP	2203-000438	SA
C144	C-CER,CHIP	2203-006423	SA
C145	C-CER,CHIP	2203-005808	SA
C146	C-CER,CHIP	2203-005682	SA
C147	C-CER,CHIP	2203-005806	SA
C148	C-CER,CHIP	2203-000386	SA

Design LOC	Discription	SEC Code	STATUS
C149	C-CER,CHIP	2203-006305	SA
C150	C-CER,CHIP	2203-006423	SA
C151	C-CER,CHIP	2203-005682	SA
C152	C-CER,CHIP	2203-005682	SA
C153	C-CER,CHIP	2203-006423	SA
C154	C-CER,CHIP	2203-005806	SA
C155	C-CER,CHIP	2203-000254	SA
C156	C-CER,CHIP	2203-000254	SA
C157	C-CER,CHIP	2203-000233	SA
C158	C-CER,CHIP	2203-002443	SA
C159	C-CER,CHIP	2203-001033	SA
C160	C-CER,CHIP	2203-005682	SA
C161	C-CER,CHIP	2203-006423	SA
C162	C-CER,CHIP	2203-000278	SA
C163	C-CER,CHIP	2203-005682	SA
C164	C-CER,CHIP	2203-005806	SA
C165	C-CER,CHIP	2203-000995	SA
C166	C-CER,CHIP	2203-005482	SA
C168	C-CER,CHIP	2203-005725	SA
C169	C-CER,CHIP	2203-005725	SA
C170	C-CER,CHIP	2203-000438	SA
C171	C-CER,CHIP	2203-001239	SA
C172	C-CER,CHIP	2203-000278	SA
C173	C-CER,CHIP	2203-001153	SA
C174	C-CER,CHIP	2203-002968	SA
C175	C-CER,CHIP	2203-006137	SA
C176	C-CER,CHIP	2203-000812	SA
C177	C-CER,CHIP	2203-000438	SA
C178	C-CER,CHIP	2203-000812	SA
C179	C-CER,CHIP	2203-005736	SA
C180	C-CER,CHIP	2203-000679	SA
C181	C-CER,CHIP	2203-005808	SA
C182	C-CER,CHIP	2203-006208	SA
C183	C-CER,CHIP	2203-005806	SA
C184	C-CER,CHIP	2203-005806	SA
C185	C-CER,CHIP	2203-005682	SA
C186	C-CER,CHIP	2203-005806	SA
C187	C-CER,CHIP	2203-002668	SA
C200	C-CER,CHIP	2203-000233	SA
C201	C-CER,CHIP	2203-006194	SA
C202	C-CER,CHIP	2203-000233	SA
C203	C-CER,CHIP	2203-006423	SA
C204	C-CER,CHIP	2203-000233	SA
C205	C-CER,CHIP	2203-005061	SA
C206	C-CER,CHIP	2203-005736	SA
C207	C-CER,CHIP	2203-000330	SA
C209	C-CER,CHIP	2203-000330	SA
C210	C-CER,CHIP	2203-000233	SA
C211	C-CER,CHIP	2203-006423	SA
C212	C-CER,CHIP	2203-002668	SA
C213	C-CER,CHIP	2203-000438	SA
C216	C-CER,CHIP	2203-000330	SA
C217	C-CER,CHIP	2203-006423	SA

Design LOC	Discription	SEC Code	STATUS
C218	C-CER,CHIP	2203-000233	SA
C221	C-CER,CHIP	2203-000330	SA
C222	C-CER,CHIP	2203-000995	SA
C223	C-CER,CHIP	2203-000696	SA
C224	C-CER,CHIP	2203-000438	SA
C225	C-CER,CHIP	2203-000386	SA
C226	C-CER,CHIP	2203-000386	SA
C227	C-CER,CHIP	2203-005061	SA
C228	C-CER,CHIP	2203-000696	SA
C229	C-CER,CHIP	2203-006423	SA
C230	C-CER,CHIP	2203-000233	SA
C231	C-CER,CHIP	2203-000233	SA
C232	C-CER,CHIP	2203-000679	SA
C233	C-CER,CHIP	2203-006208	SA
C234	C-CER,CHIP	2203-006423	SA
C235	C-CER,CHIP	2203-000233	SA
C236	C-CER,CHIP	2203-000330	SA
C237	C-CER,CHIP	2203-006423	SA
C238	C-CER,CHIP	2203-000233	SA
C239	C-CER,CHIP	2203-006194	SA
C240	C-CER,CHIP	2203-006194	SA
C241	C-CER,CHIP	2203-000679	SA
C242	C-CER,CHIP	2203-006194	SA
C243	C-CER,CHIP	2203-006423	SA
C244	C-CER,CHIP	2203-005806	SA
C245	C-CER,CHIP	2203-005682	SA
C246	C-CER,CHIP	2203-006208	SA
C247	C-CER,CHIP	2203-006423	SA
C248	C-CER,CHIP	2203-000386	SA
C300	C-CER,CHIP	2203-006423	SA
C301	C-CER,CHIP	2203-006091	SA
C302	C-CER,CHIP	2203-005725	SA
C303	C-CER,CHIP	2203-006423	SA
C304	C-CER,CHIP	2203-005725	SA
C305	C-CER,CHIP	2203-000489	SA
C306	C-CER,CHIP	2203-006423	SA
C307	C-CER,CHIP	2203-006091	SA
C308	C-CER,CHIP	2203-006423	SA
C309	C-CER,CHIP	2203-005480	SA
C310	C-CER,CHIP	2203-006194	SA
C311	C-CER,CHIP	2203-006208	SA
C312	C-CER,CHIP	2203-006423	SA
C313	C-CER,CHIP	2203-006423	SA
C314	C-CER,CHIP	2203-006423	SA
C315	C-CER,CHIP	2203-005736	SA
C316	C-CER,CHIP	2203-005736	SA
C317	C-CER,CHIP	2203-006423	SA
C318	C-CER,CHIP	2203-006423	SA
C319	C-CER,CHIP	2203-006423	SA
C320	C-CER,CHIP	2203-006824	SA
C321	C-CER,CHIP	2203-006423	SA
C322	C-CER,CHIP	2203-006423	SA
C323	C-CER,CHIP	2203-000254	SA

Design LOC	Discription	SEC Code	STATUS
C324	C-CER,CHIP	2203-000812	SA
C325	C-CER,CHIP	2203-006423	SA
C326	C-CER,CHIP	2203-006194	SA
C327	C-CER,CHIP	2203-006194	SA
C328	C-CER,CHIP	2203-006194	SA
C329	C-CER,CHIP	2203-006194	SA
C330	C-CER,CHIP	2203-006194	SA
C331	C-CER,CHIP	2203-006194	SA
C332	C-CER,CHIP	2203-006194	SA
C333	C-CER,CHIP	2203-005806	SA
C334	C-CER,CHIP	2203-005806	SA
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C545	C-CER,CHIP	2203-003054	SA

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C550	C-CER,CHIP	2203-006648	SA
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C725	C-CER,CHIP	2203-002677	SA
C726	C-TA,CHIP	2404-001411	SA
C727	C-CER,CHIP	2203-005682	SA
CD300	CONNECTOR-CARD EDGE	3709-001392	SA
D401	DIODE-ARRAY	0407-001002	SA
DUF200	DUPLEXER-SAW	2910-000010	SA
EAR500	JACK-EAR PHONE	3722-002181	SA
F100	FILTER-SAW	2904-001571	SA
F101	FILTER-SAW	2904-001570	SA
F102	FILTER-SAW	2904-001550	SA
F200	FILTER-SAW	2904-001623	SA
F201	FILTER-SAW	2904-001438	SA
F300	DIODE-ARRAY	0407-001038	SA

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F703	FILTER-EMI SMD	2901-001268	SA
F704	FILTER-EMI SMD	2901-001268	SA
F706	FILTER-EMI SMD	2901-001268	SA
F707	FILTER-EMI/ESD	2901-001355	SA
F708	FILTER-EMI/ESD	2901-001355	SA
HDC700	CONNECTOR-HEADER	3711-006010	SA
HDC701	HEADER-BOARD TO BOARD	3711-005605	SA
IFC700	CONNECTOR-INTERFACE	3710-002283	SA
L102	INDUCTOR-SMD	2703-002314	SA
L103	INDUCTOR-SMD	2703-002314	SA
L104	INDUCTOR-SMD	2703-002203	SA
L105	INDUCTOR-SMD	2703-002819	SA
L106	INDUCTOR-SMD	2703-002176	SA
L107	INDUCTOR-SMD	2703-002170	SA
L108	INDUCTOR-SMD	2703-002176	SA
L109	BEAD-SMD	3301-001534	SA
L110	INDUCTOR-SMD	2703-002198	SA
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L112	INDUCTOR-SMD	2703-002819	SA
L113	INDUCTOR-SMD	2703-002281	SA
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L130	BEAD-SMD	3301-001756	SA
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L208	INDUCTOR-SMD	2703-002367	SA
L209	INDUCTOR-SMD	2703-002205	SA
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L401	INDUCTOR-SMD	2703-002840	SA
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L502	INDUCTOR-SMD	2703-002551	SA
L503	INDUCTOR-SMD	2703-002551	SA
L504	INDUCTOR-SMD	2703-002551	SA
L506	INDUCTOR-SMD	2703-002176	SA
MOD600	BLUETOOTH MODULE	4709-001445	SA
OSC100	OSCILLATOR-VCO	2806-001377	SA
OSC200	OSCILLATOR-VCTCXO	2809-001312	SA
OSC201	OSCILLATOR-VCO	2806-001372	SA
OSC300	RESONATOR-CERAMIC	2802-001182	SA
OSC400	CRYSTAL-SMD	2801-004373	SA
PAM100	IC-POWER AMP	1201-002288	SA
PAM200	IC-POWER AMP	1201-002305	SA
Q200	TR-DIGITAL	0504-001151	SA
Q401	FET-SILICON	0505-001889	SA
Q700	FET-SILICON	0505-001423	SA
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R102	R-CHIP	2007-008045	SA
R104	R-CHIP	2007-007318	SA
R105	R-CHIP	2007-007136	SA
R106	R-CHIP	2007-007306	SA
R107	R-CHIP	2007-000143	SA
R108	R-CHIP	2007-001217	SA
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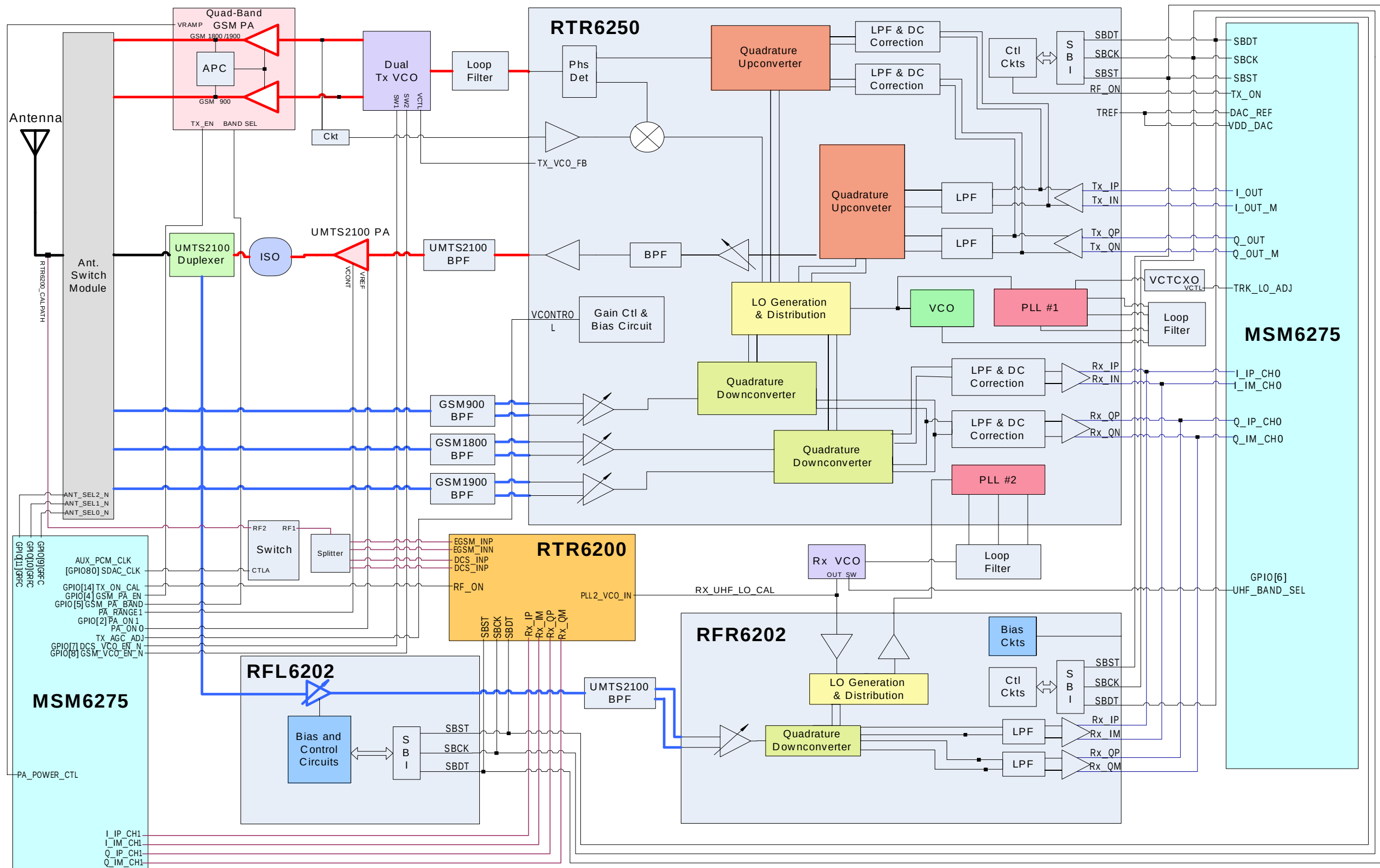
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R513	R-CHIP	2007-003010	SA

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R607	R-CHIP	2007-008542	SA
R700	R-CHIP	2007-008542	SA
R703	R-CHIP	2007-008516	SA
R704	R-CHIP	2007-008548	SA
R705	R-CHIP	2007-009111	SA
R706	R-CHIP	2007-008419	SA
R707	R-CHIP	2007-008419	SA
R708	R-CHIP	2007-009111	SA
R709	R-CHIP	2007-000171	SA
R710	R-CHIP	2007-009111	SA
R711	R-CHIP	2007-009111	SA
R712	R-CHIP	2007-009111	SA
R713	R-CHIP	2007-009111	SA
R715	R-CHIP	2007-009111	SA
R716	R-CHIP	2007-009111	SA
R717	R-CHIP	2007-008542	SA
R718	R-CHIP	2007-000171	SA
R719	R-CHIP	2007-000159	SA
R723	R-CHIP	2007-008542	SA
R724	R-CHIP	2007-008052	SA
R725	R-CHIP	2007-008542	SA
R727	R-CHIP	2007-008542	SA
R728	R-CHIP	2007-007132	SA
R729	R-CHIP	2007-007132	SA
R730	R-CHIP	2007-007014	SA
R731	R-CHIP	2007-008516	SA
R732	R-CHIP	2007-008516	SA
R733	R-CHIP	2007-008516	SA
R734	R-CHIP	2007-008516	SA
RFS100	CONNECTOR-COAXIAL	3705-001358	SA
SIM400	CONNECTOR-CARD EDGE	3709-001229	SA
TA100	C-TA,CHIP	2404-001411	SA
TA200	C-TA,CHIP	2404-001394	SA
TA700	C-TA,CHIP	2404-001411	SA
TA701	C-TA,CHIP	2404-001411	SA
TH300	THERMISTOR-NTC	1404-001224	SA
TR201	TR-DIGITAL	0504-001113	SA
TR202	FET-SILICON	0505-001464	SA
TR400	TR-DIGITAL	0504-000168	SA
TR401	TR-DIGITAL	0504-000168	SA
U100	IC-TRANSCEIVER	1205-002645	SA

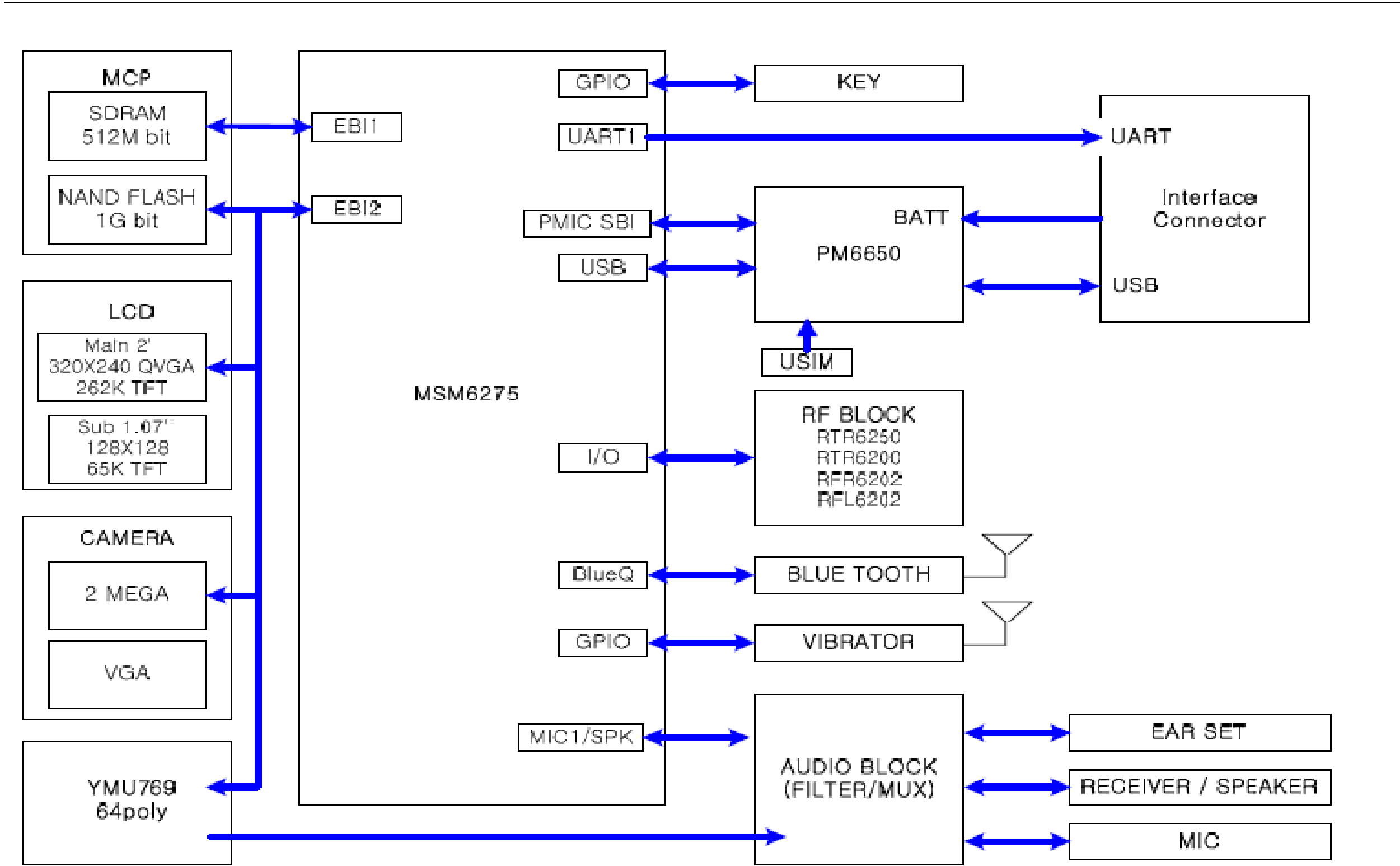
Design LOC	Discription	SEC Code	STATUS
U102	IC-TRANSCIEVER	1205-002300	SA
U200	IC-DETECTOR	1209-001577	SA
U201	IC-RF AMP	1201-002297	SA
U203	IC-RECEIVER	1205-002798	SA
U301	IC-SWITCH	1205-002568	SA
U303	IC-CMOS LOGIC	0801-003076	SA
U400	IC-POWER SUPERVISOR	1203-003335	SA
U401	IC-VOL. DETECTOR	1203-003728	SA
U402	IC-MULTI REG.	1203-002969	SA
U403	IC-POSI.FIXED REG.	1203-003523	SA
U404	IC-BATTERY	1203-003823	SA
U408	IC-SWITCH	1205-002874	SNA
U409	IC-VOL. DETECTOR	1203-004045	SNA
U500	IC-AUDIO AMP	1201-002241	SA
U501	IC-ANALOG SWITCH	1001-001265	SA
U502	IC-VOLTAGE COMP.	1202-001068	SA
U503	IC-ANALOG SWITCH	1001-001354	SA
U504	IC-POSI.FIXED REG.	1203-003208	SA
U600	IC-MELODY	1204-002316	SA
U601	IC-AUDIO AMP	1201-002195	SA
U702	IC-SWITCH	1205-002783	SA
U704	IC-POSI.FIXED REG.	1203-003105	SA
U705	IC-POSI.FIXED REG.	1203-003523	SA
U706	C-CER,CHIP	2203-006562	SA
U707	IC-ANALOG MULTIPLEX	1001-001358	SA
UCP300	IC-MODEM	1205-002790	SA
UME300	IC-MCP	1108-000041	SA
ZD500	DIODE-TVS	0406-001190	SA
ZD700	DIODE-TVS	0406-001197	SA
ZD701	DIODE-ZENER	0403-001427	SA
ZD702	DIODE-TVS	0406-001197	SA
ZD703	DIODE-TVS	0406-001237	SNA
ZD704	DIODE-TVS	0406-001237	SNA
ZD705	DIODE-ZENER	0403-001547	SA
ZD709	DIODE-TVS	0406-001237	SNA
ZD710	DIODE-ZENER	0403-001427	SA
ZD711	DIODE-TVS	0406-001210	SA
ZD712	DIODE-TVS	0406-001210	SA

7. Block Diagrams

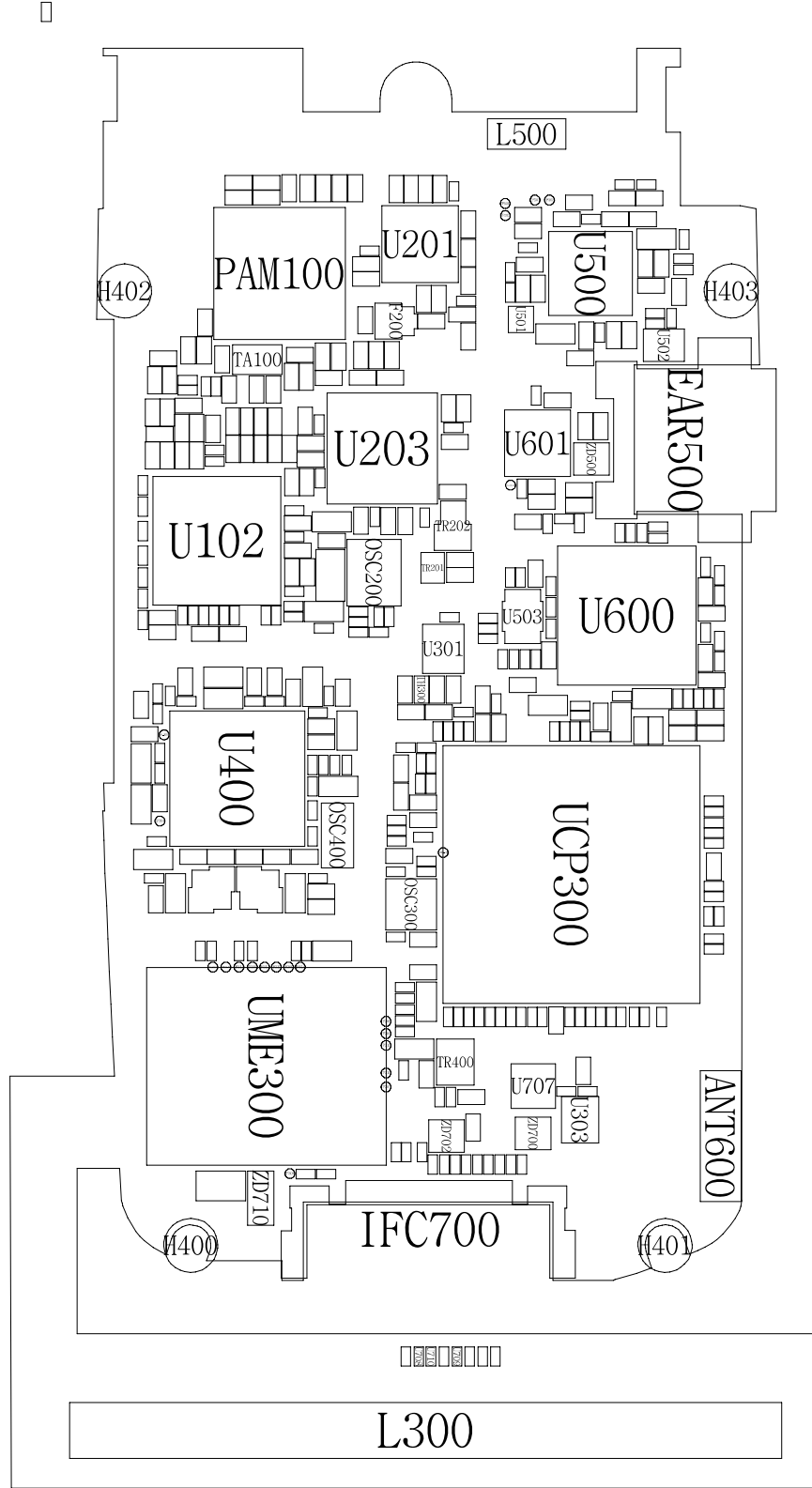
7-1. RF Solution Block Diagram



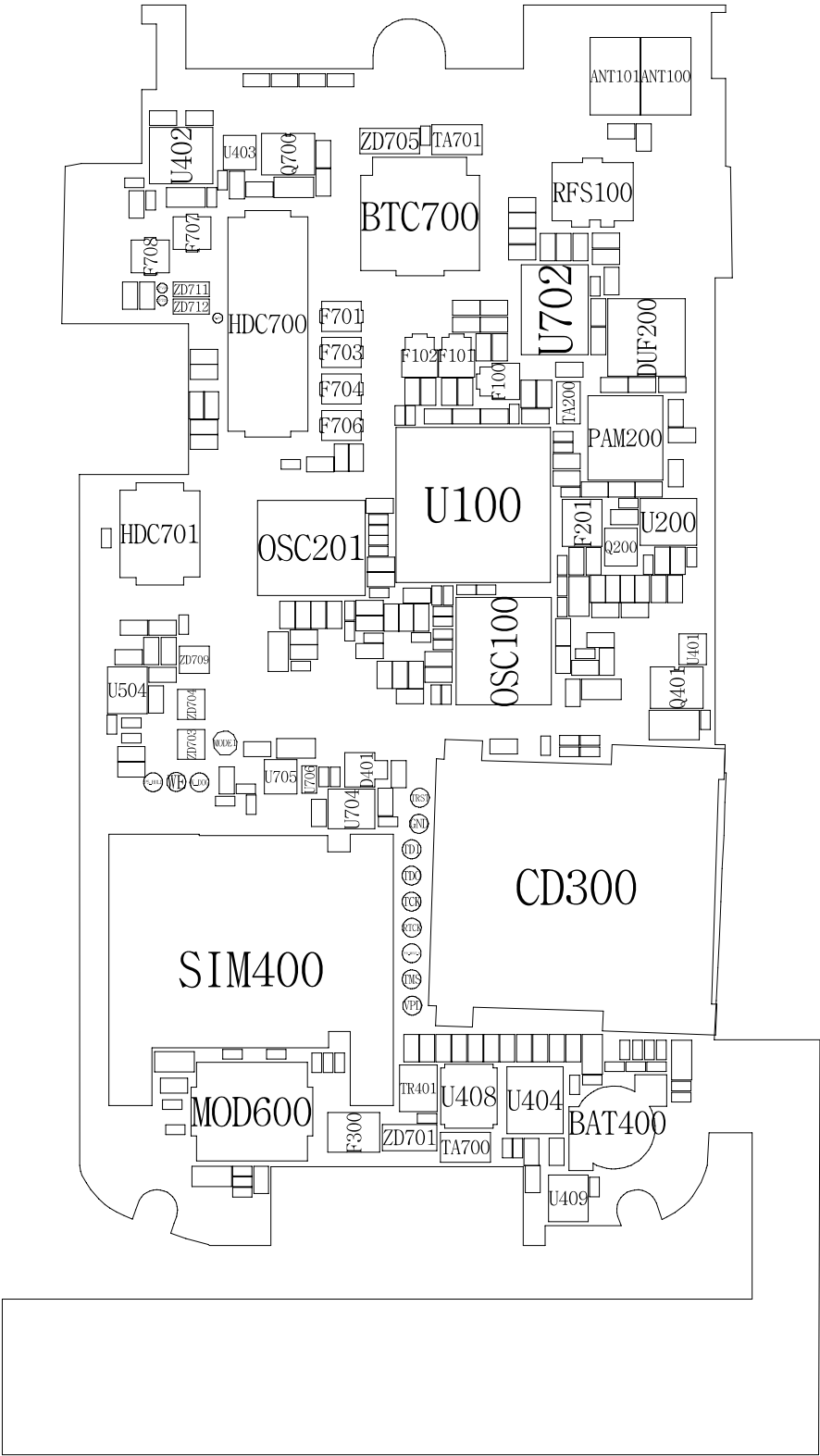
7-2. Base Band Solution Block Diagram



Top

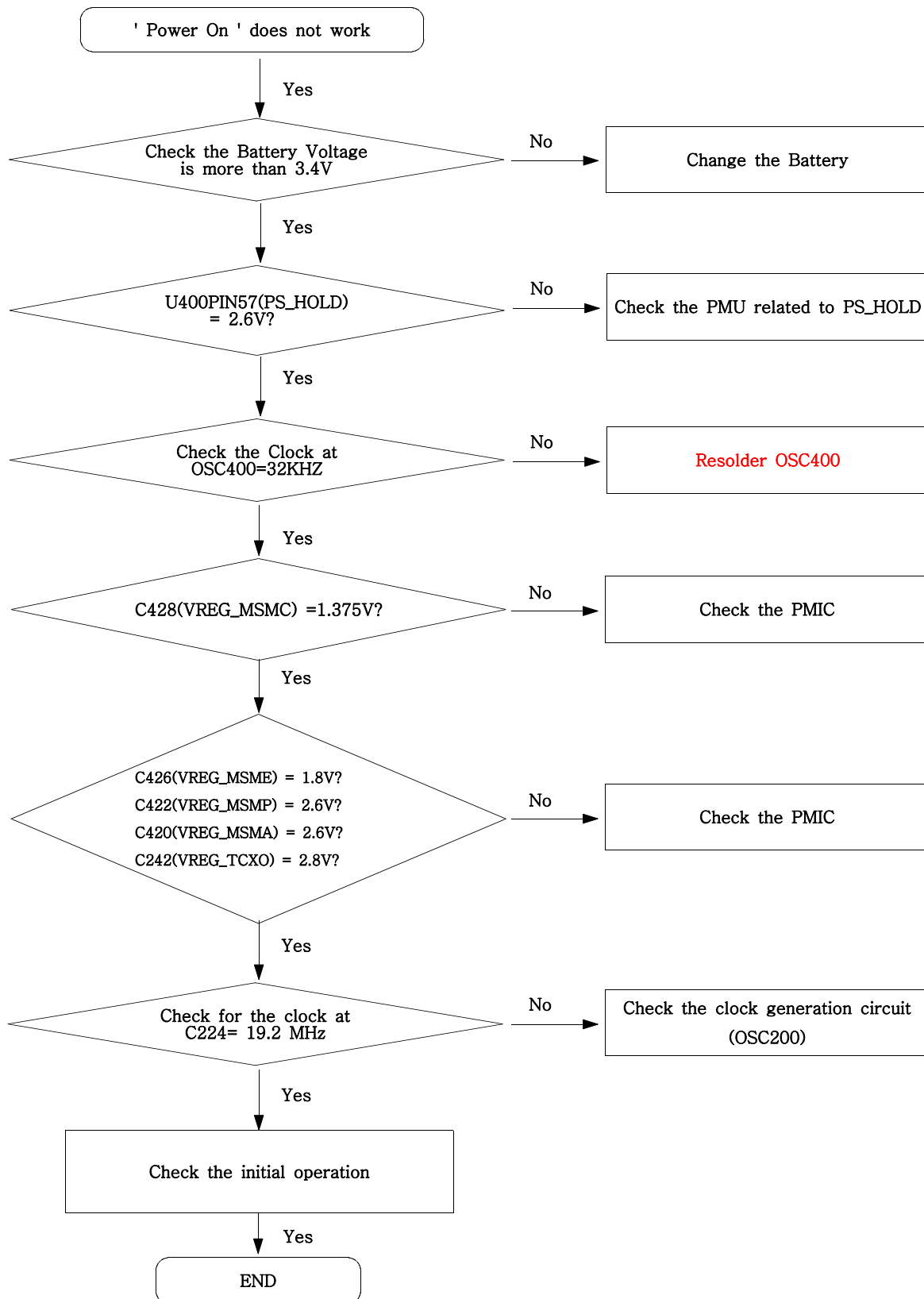


Bottom

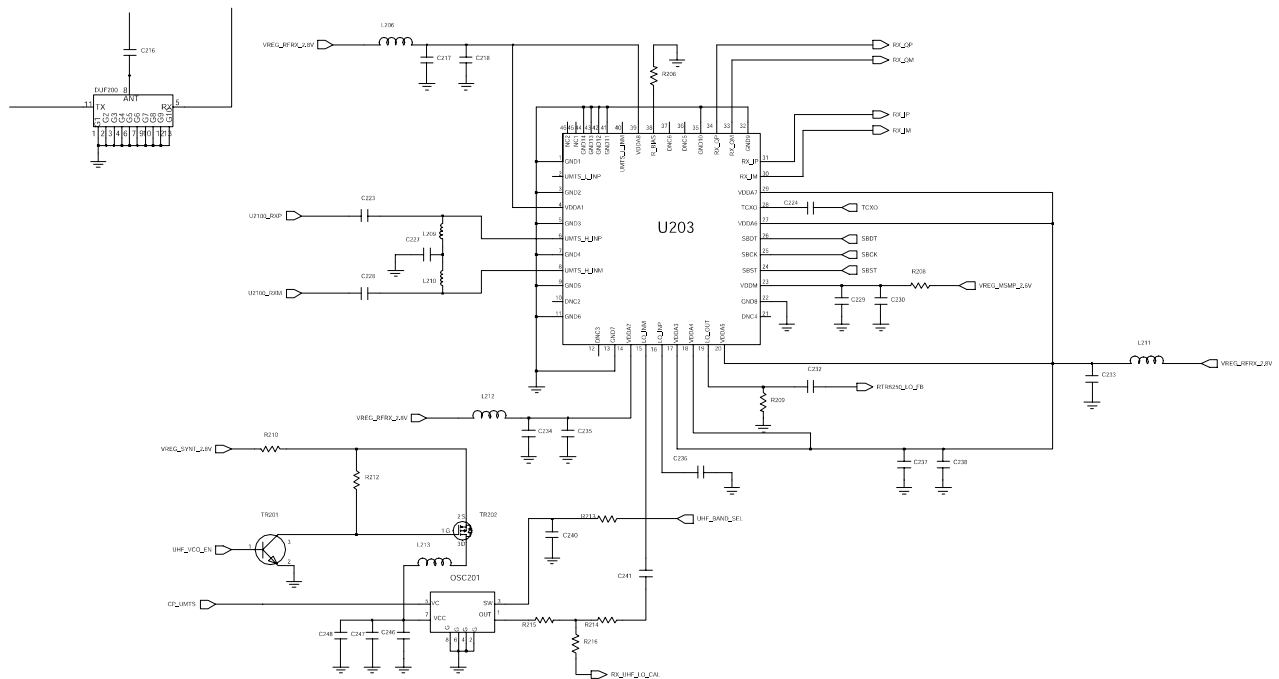
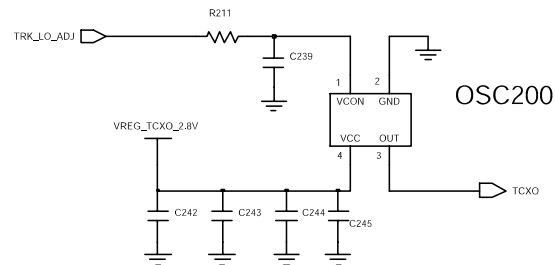


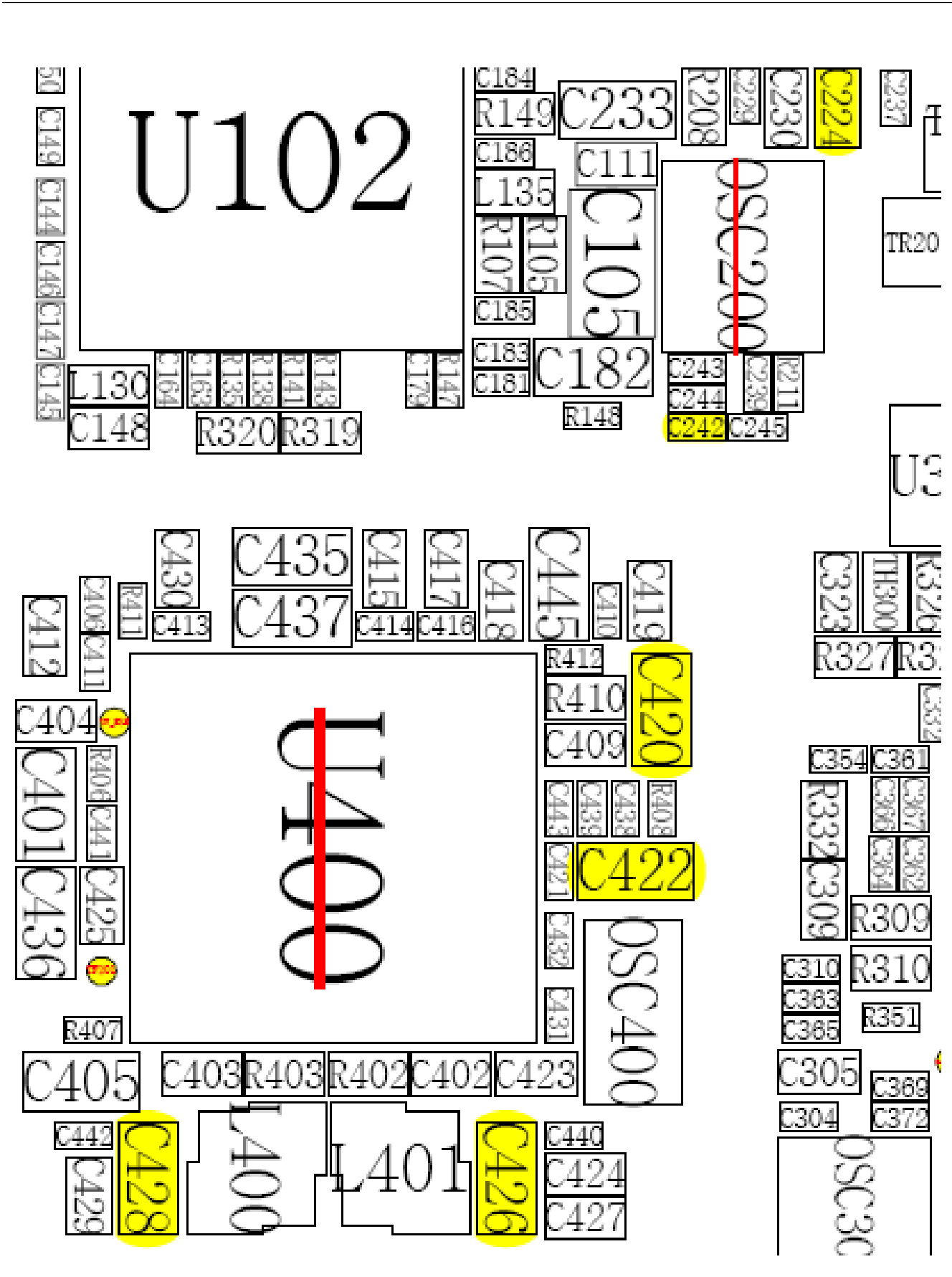
9. Flow Chart of Troubleshooting

9-1. Power On

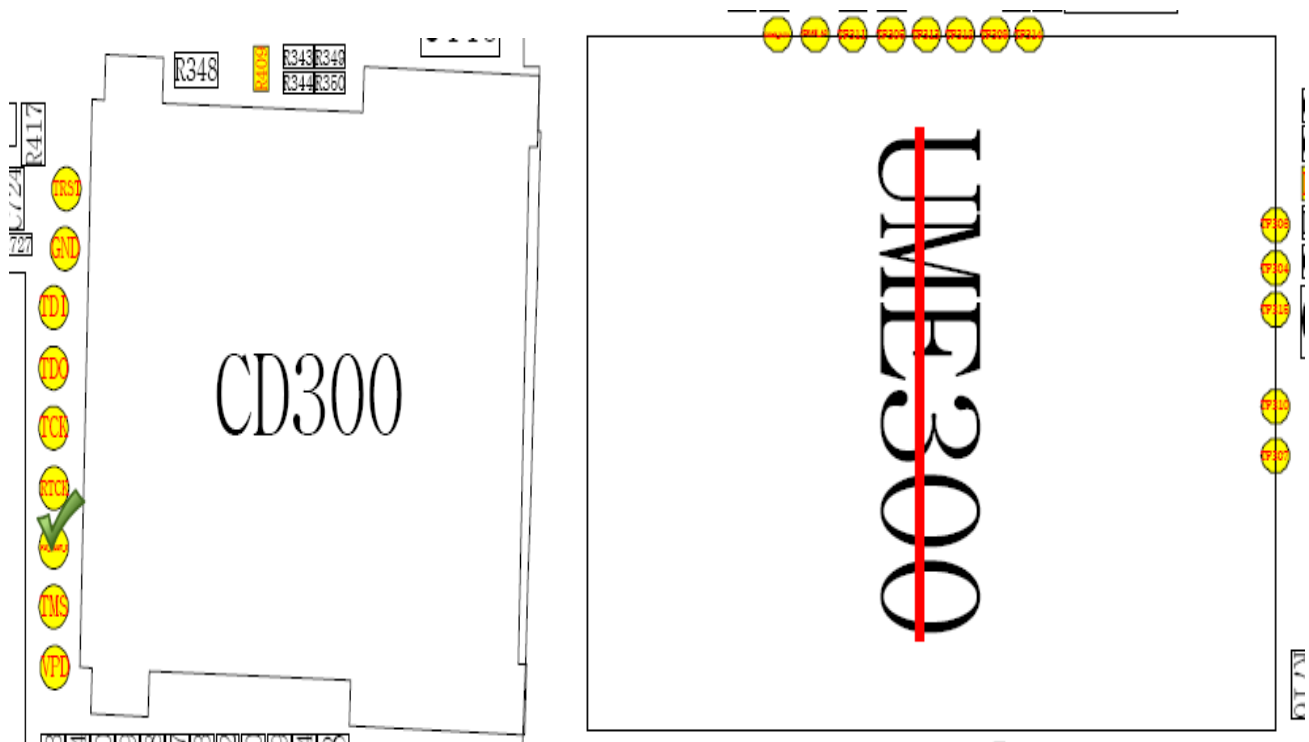
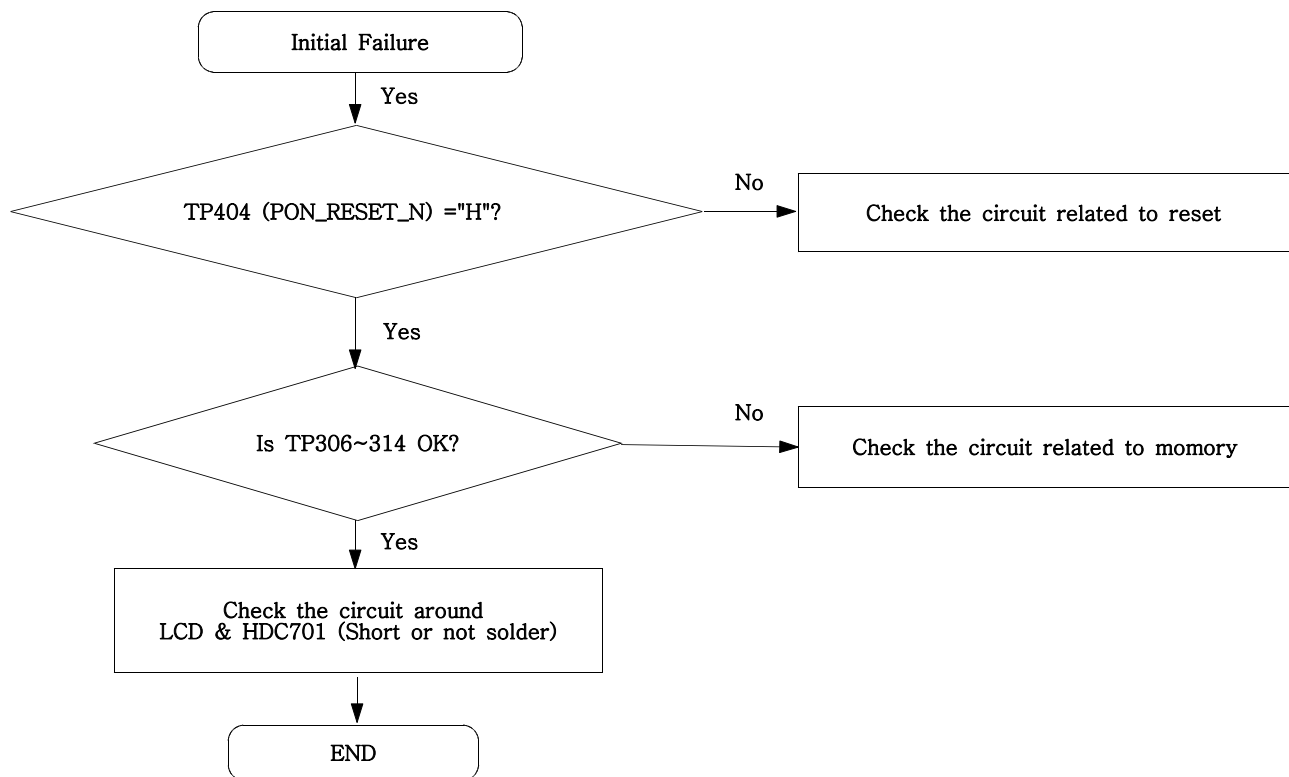


Power On

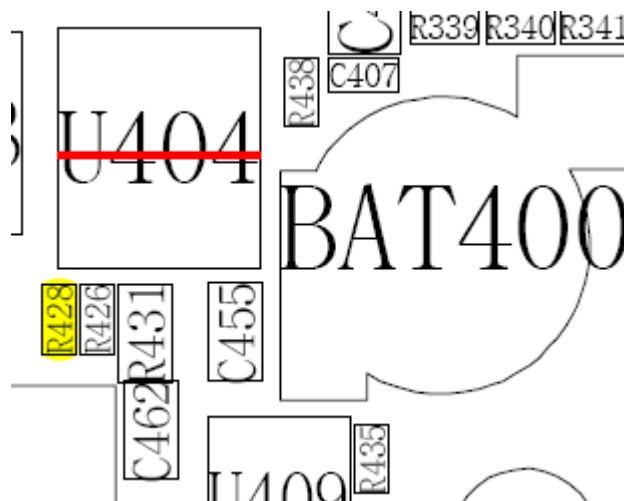
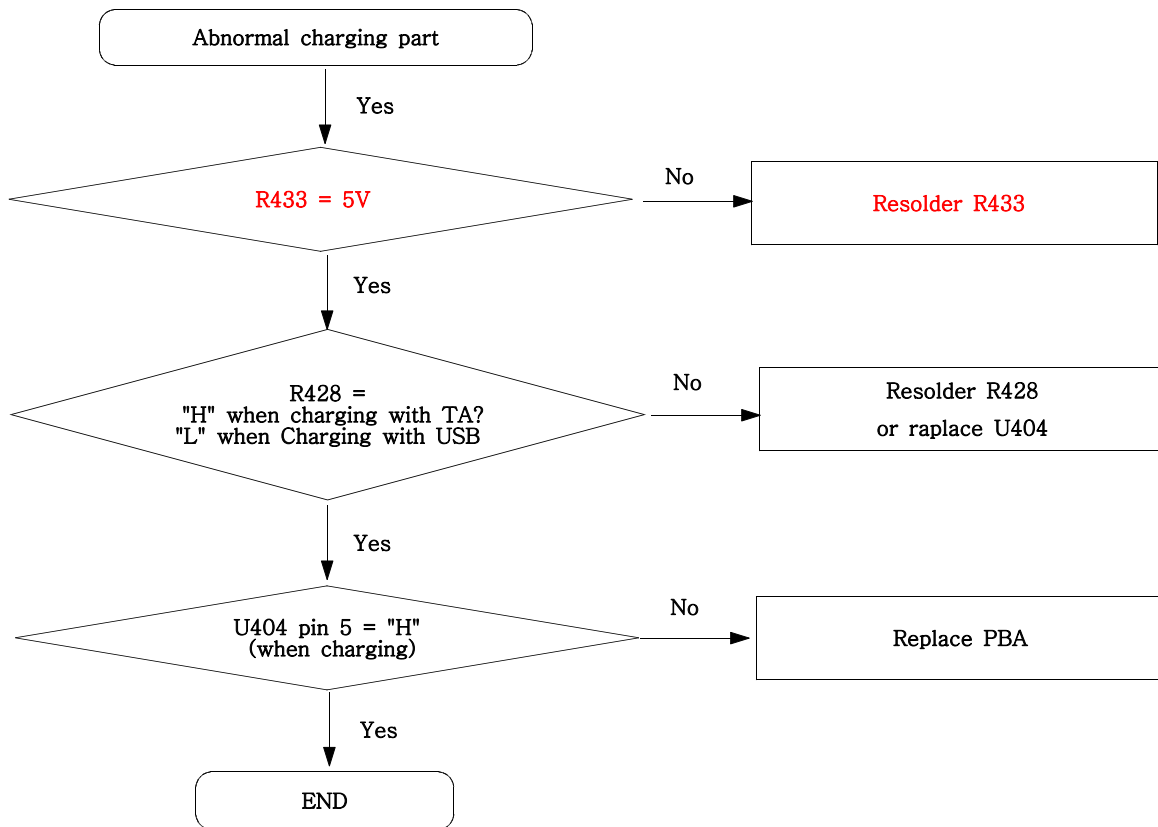




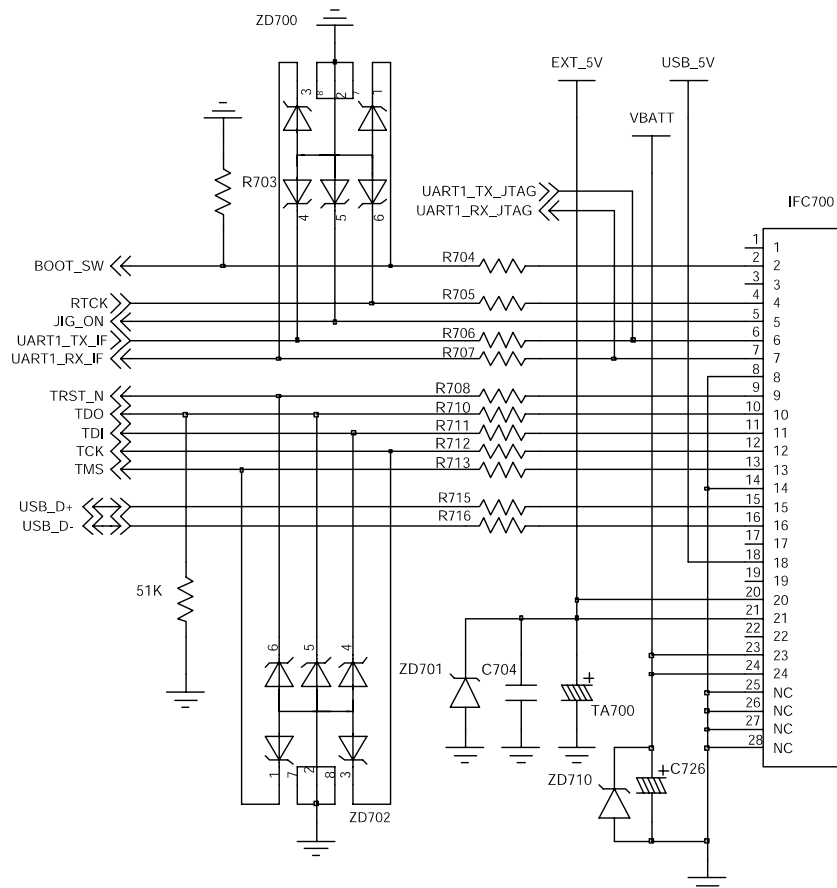
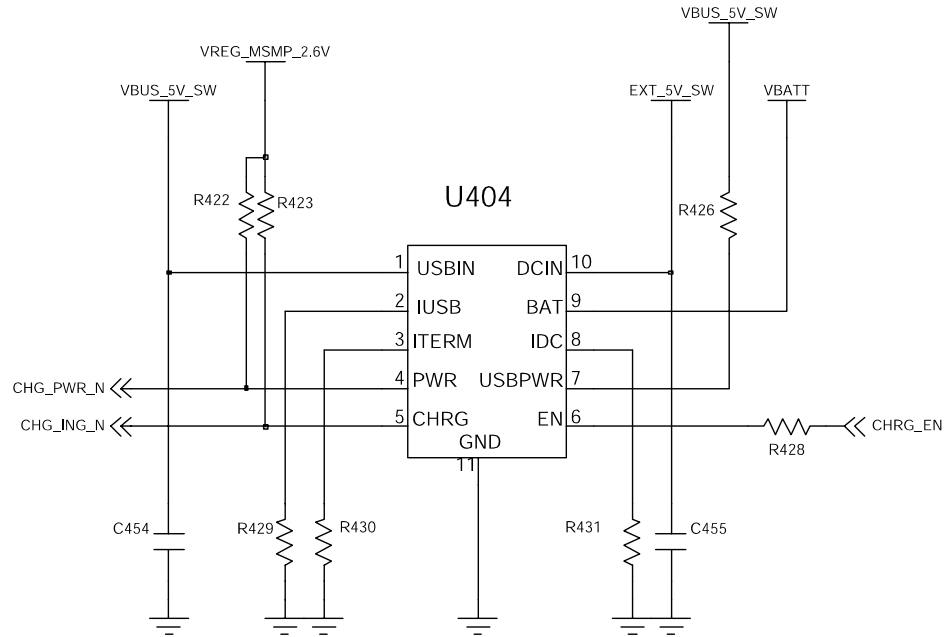
9-2. Initial



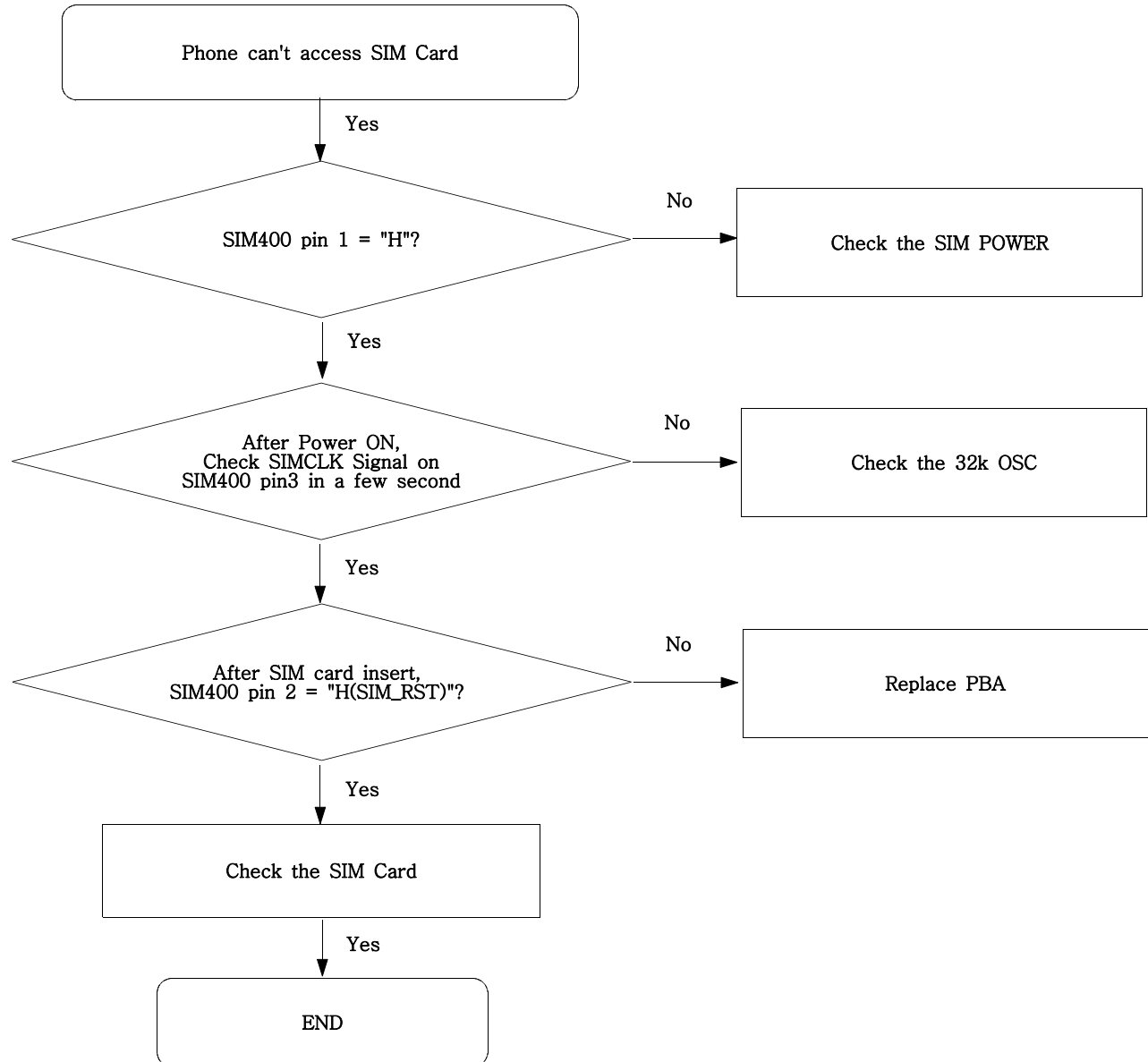
9-3. Charging Part

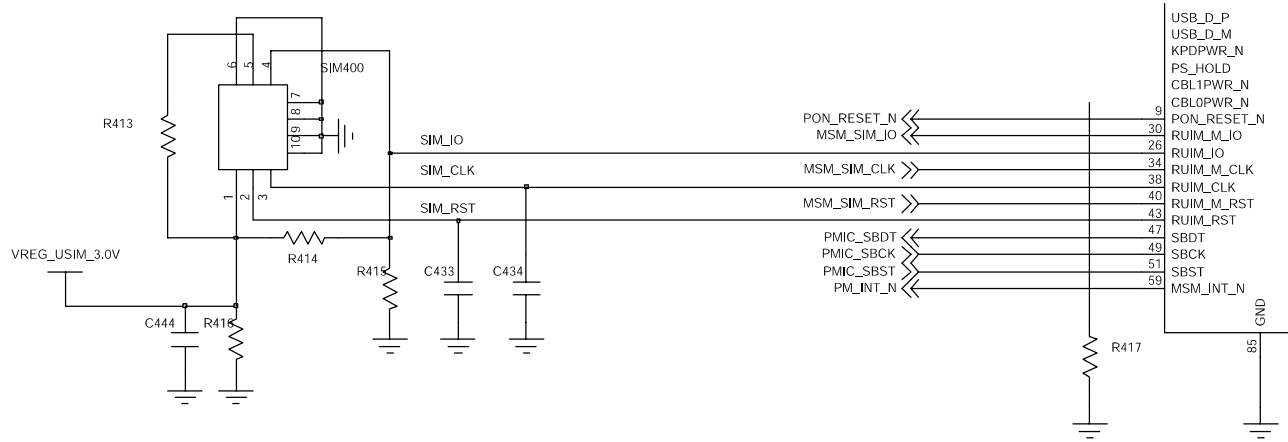


Charging

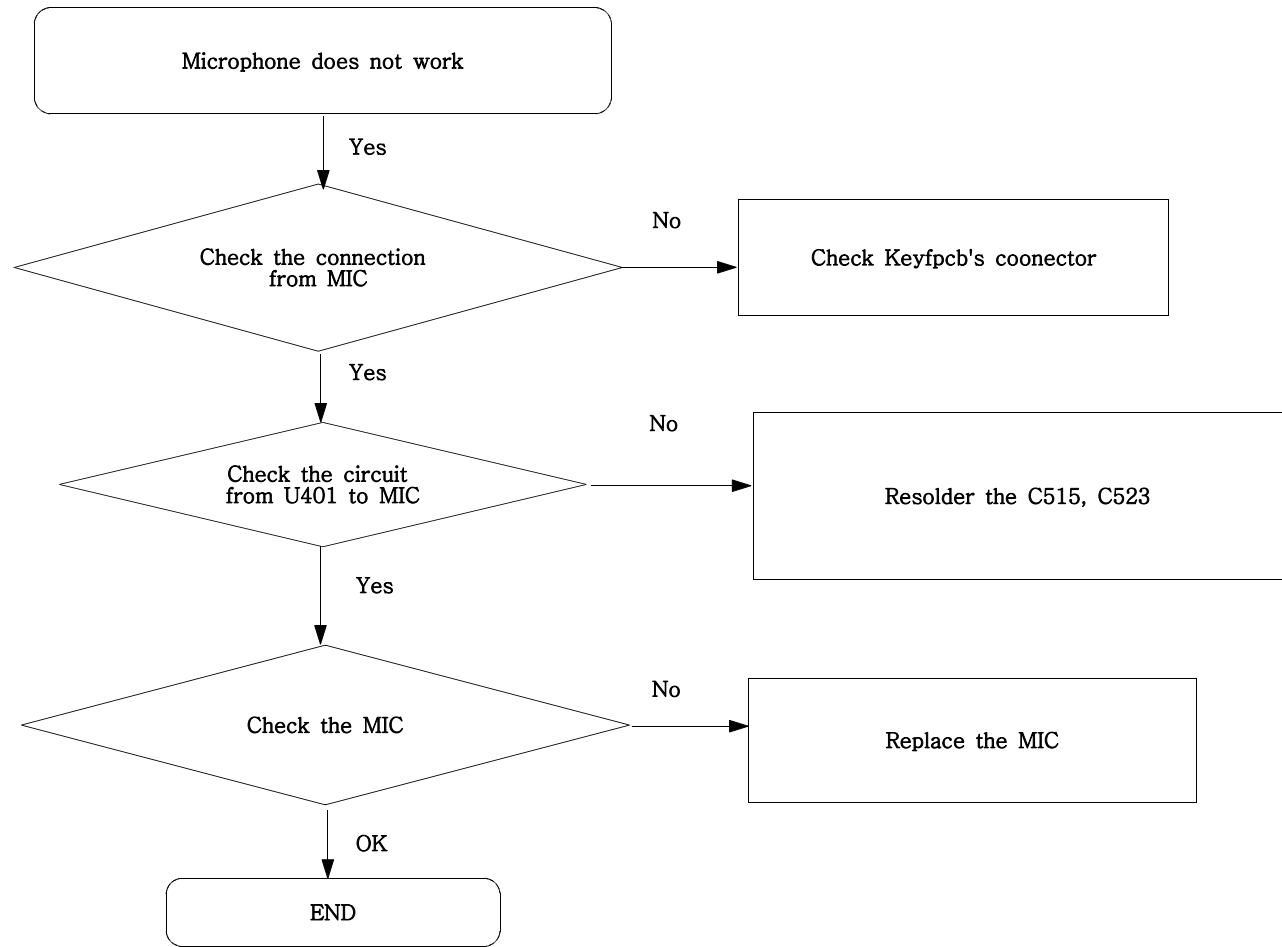


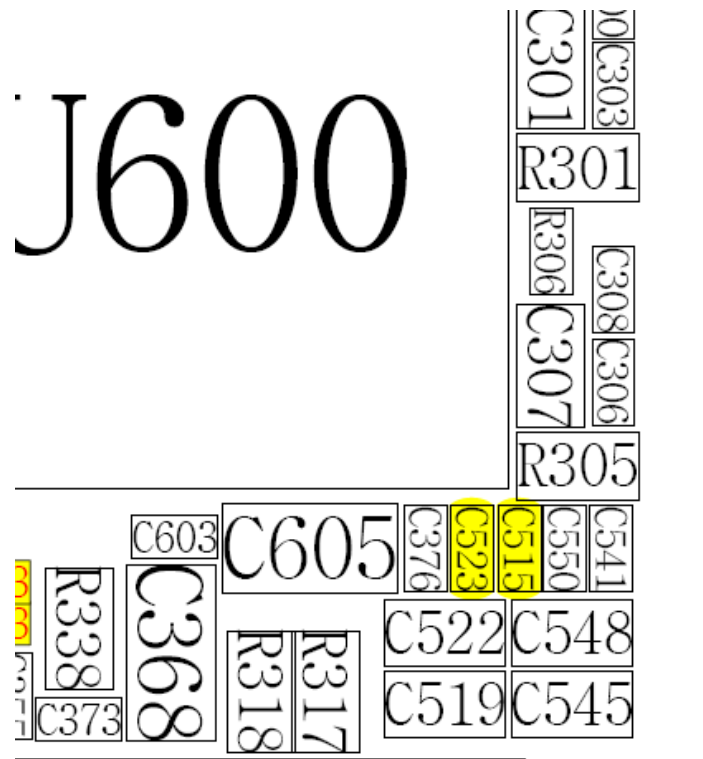
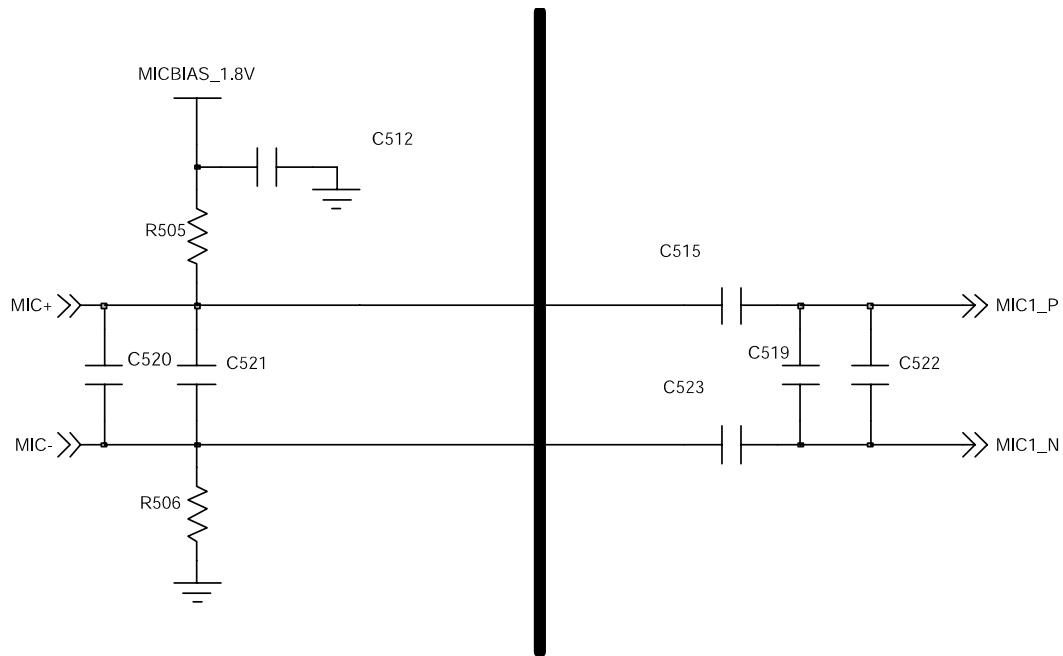
9-4. Sim Part



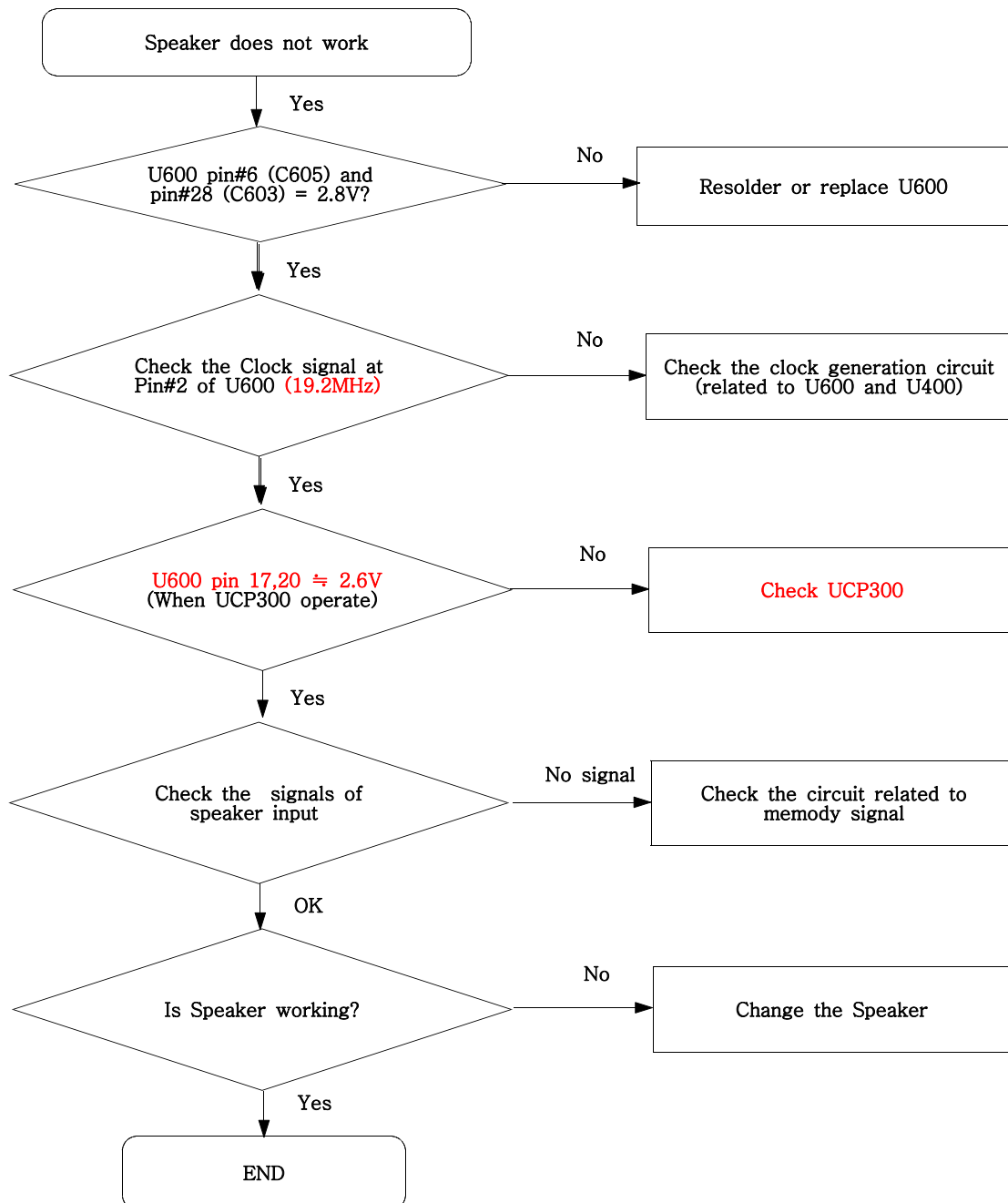


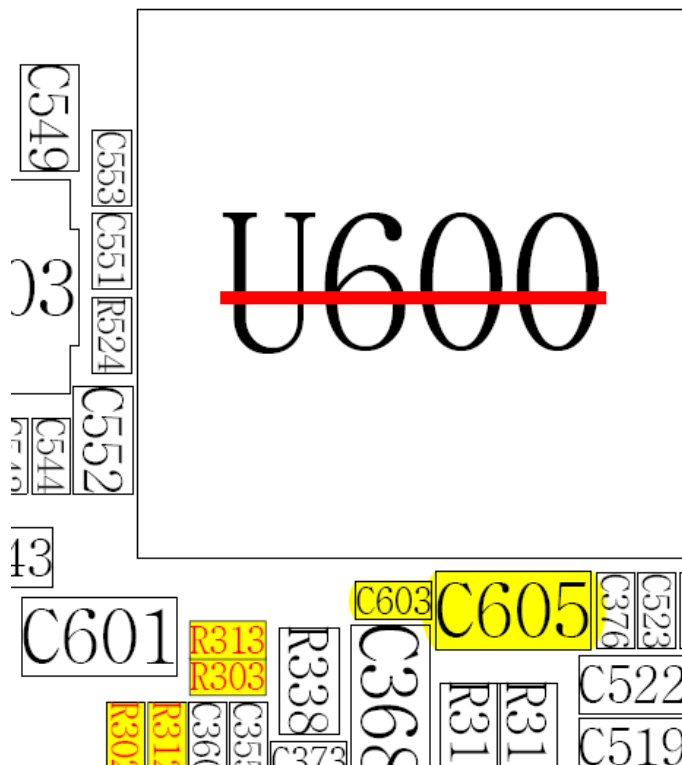
9-5. Microphone Part



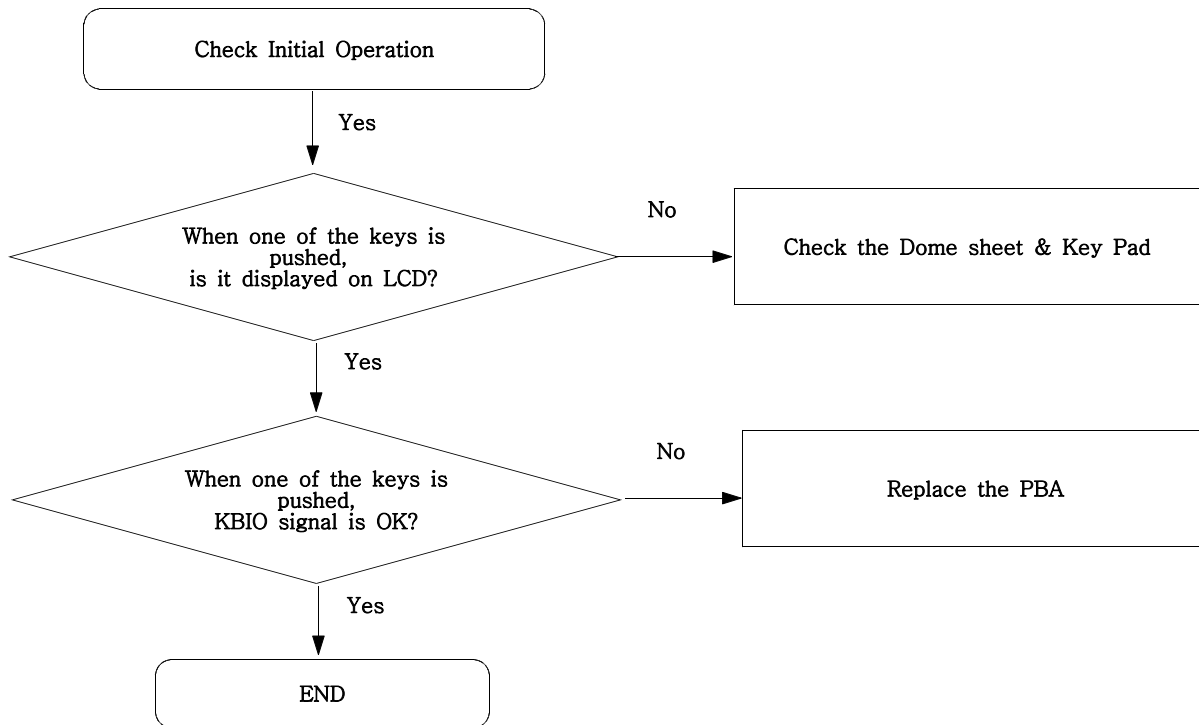


9-6. Speaker Part(Melody))

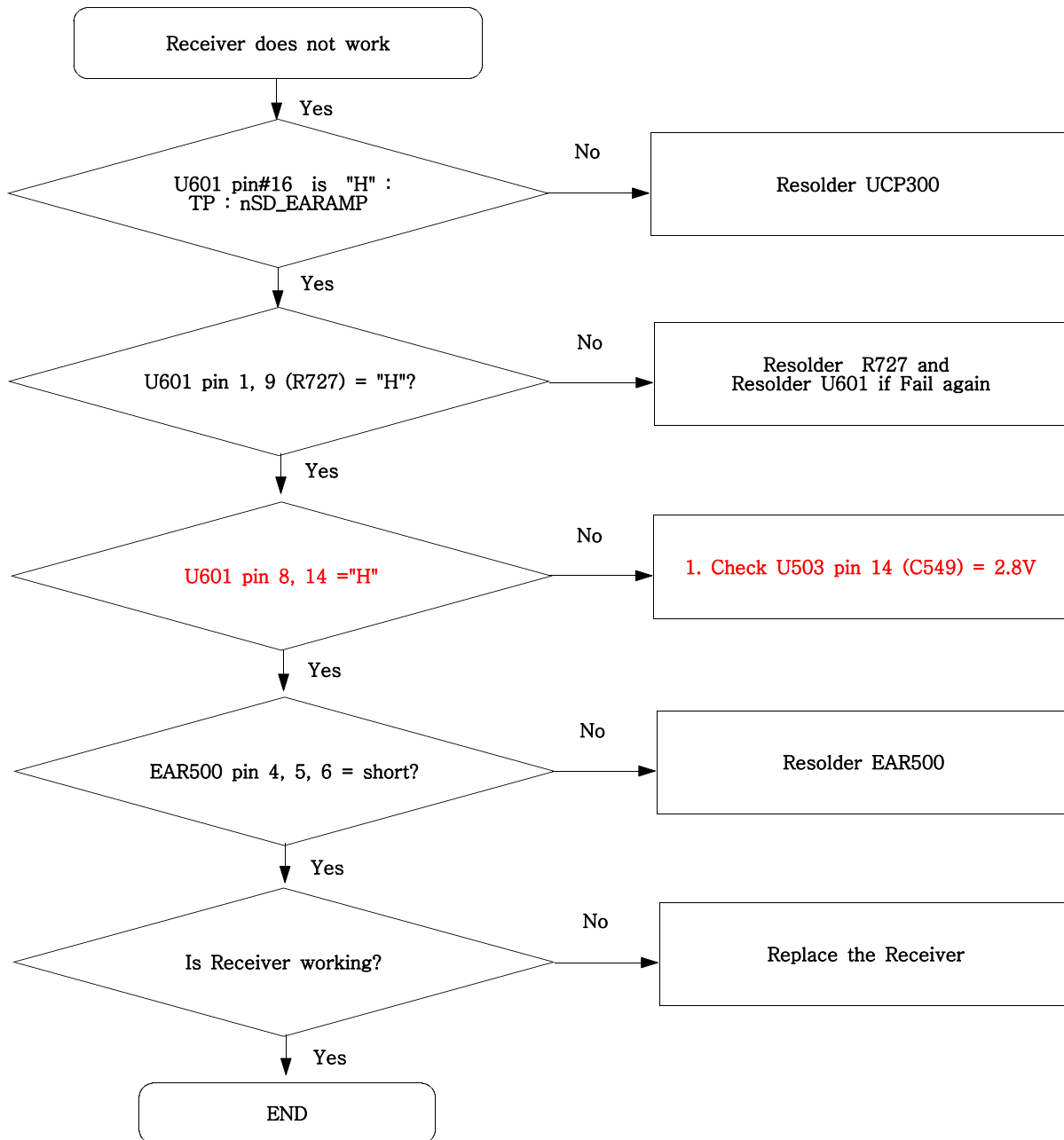


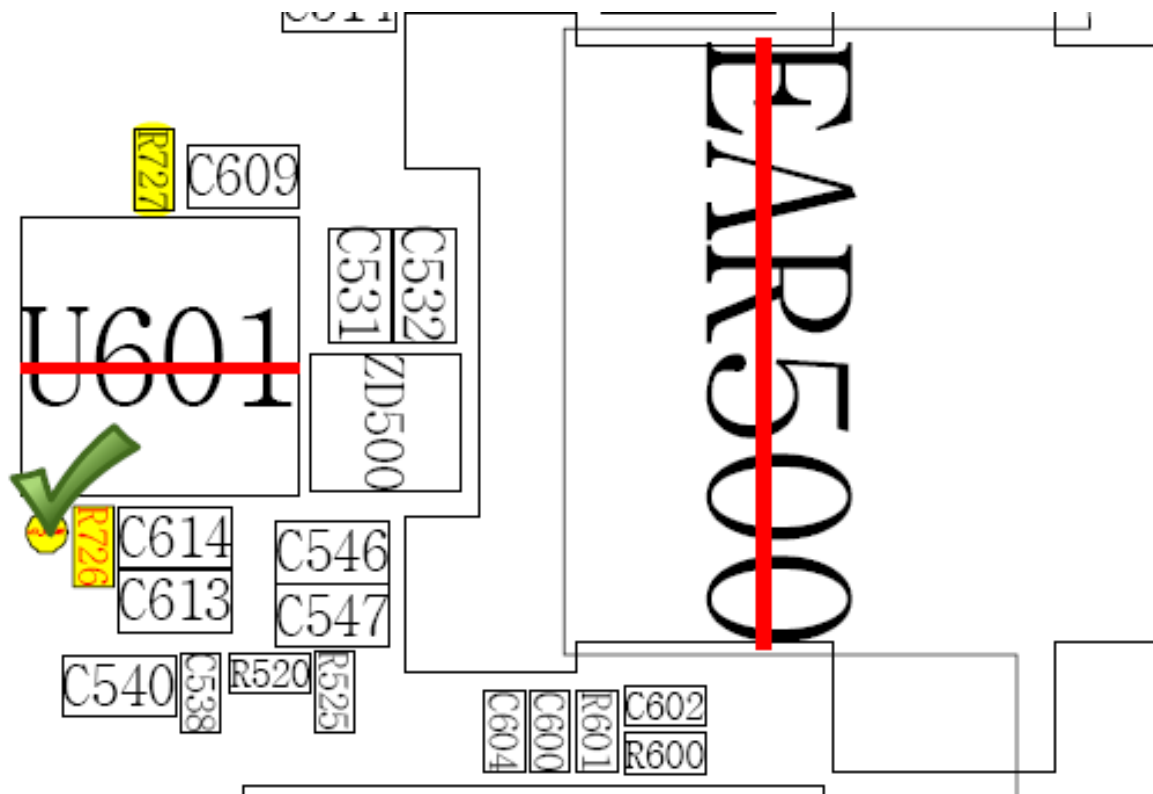
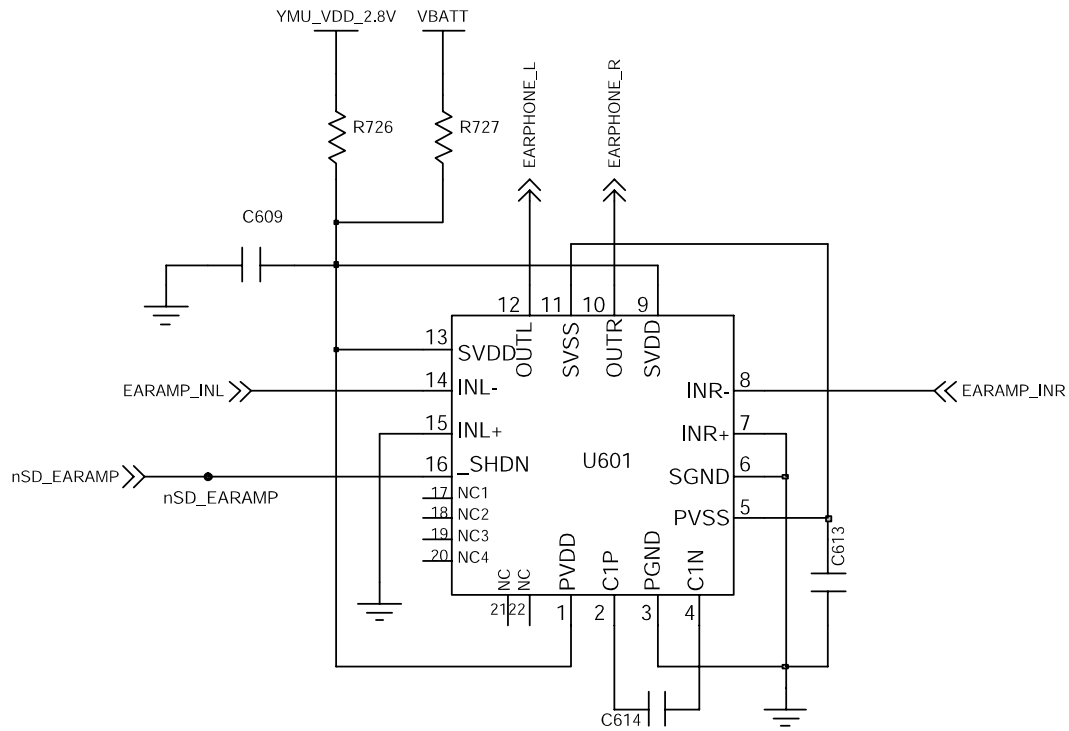


9-7. Key Data Input

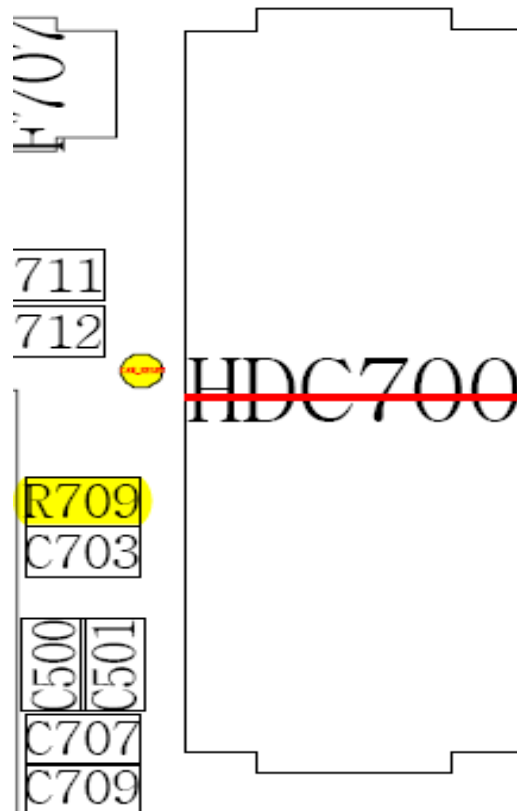
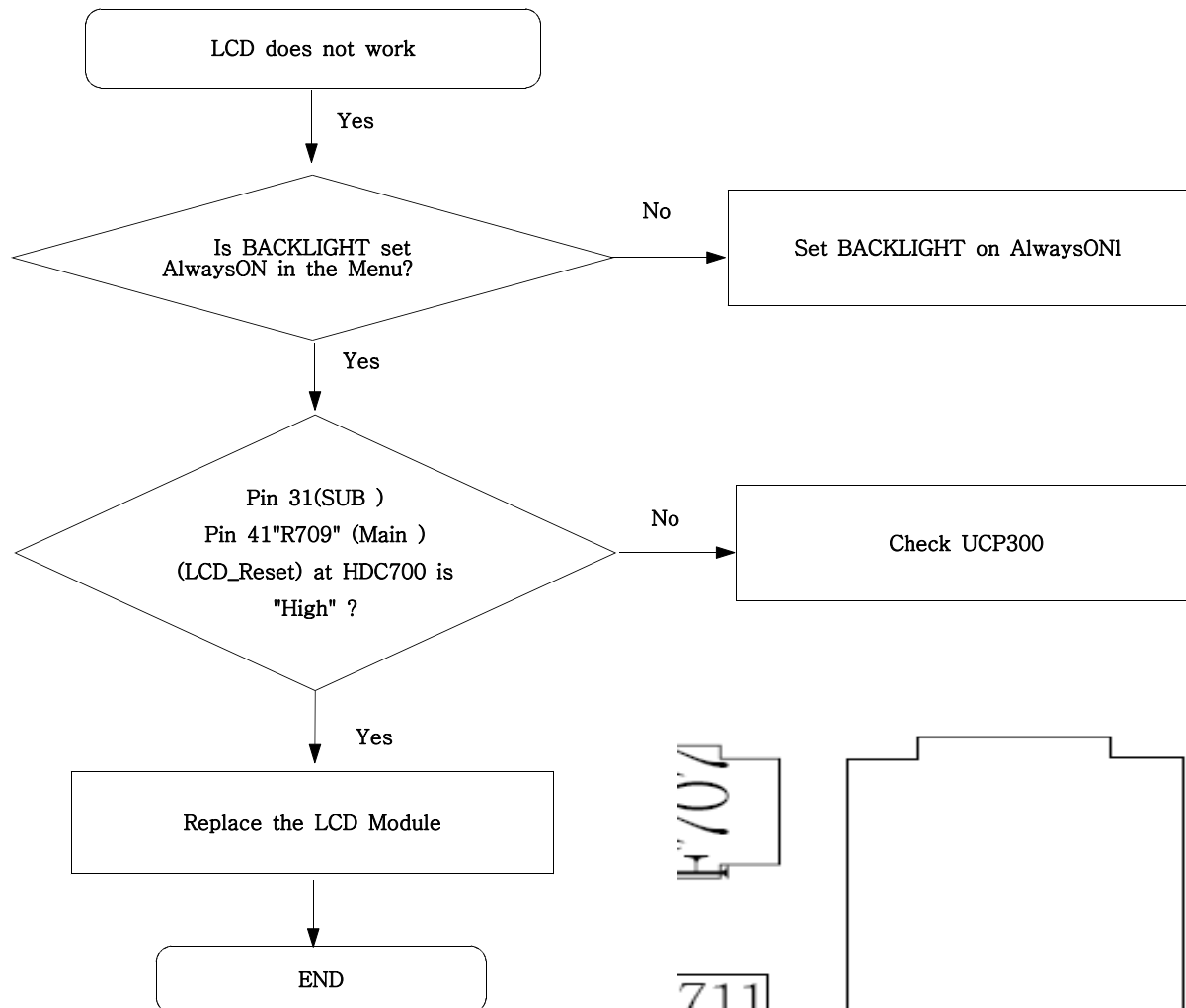


9-8. Earphone Part

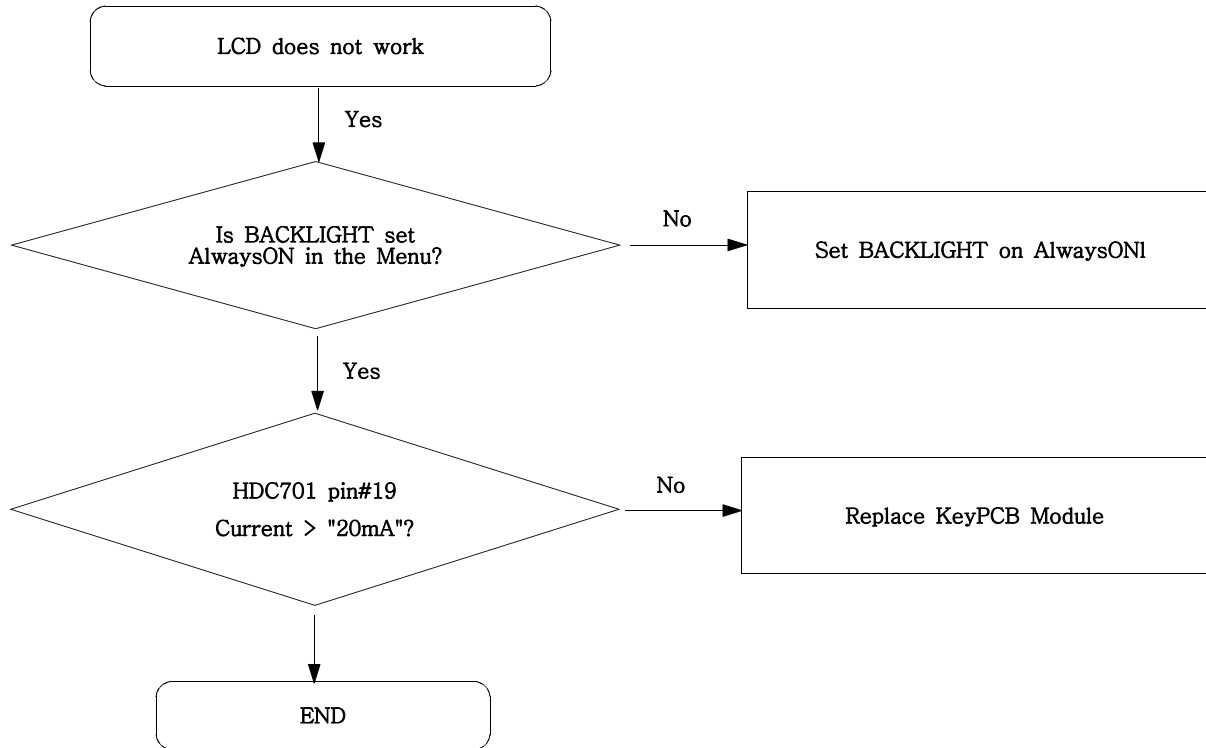




9-9. LCD Part

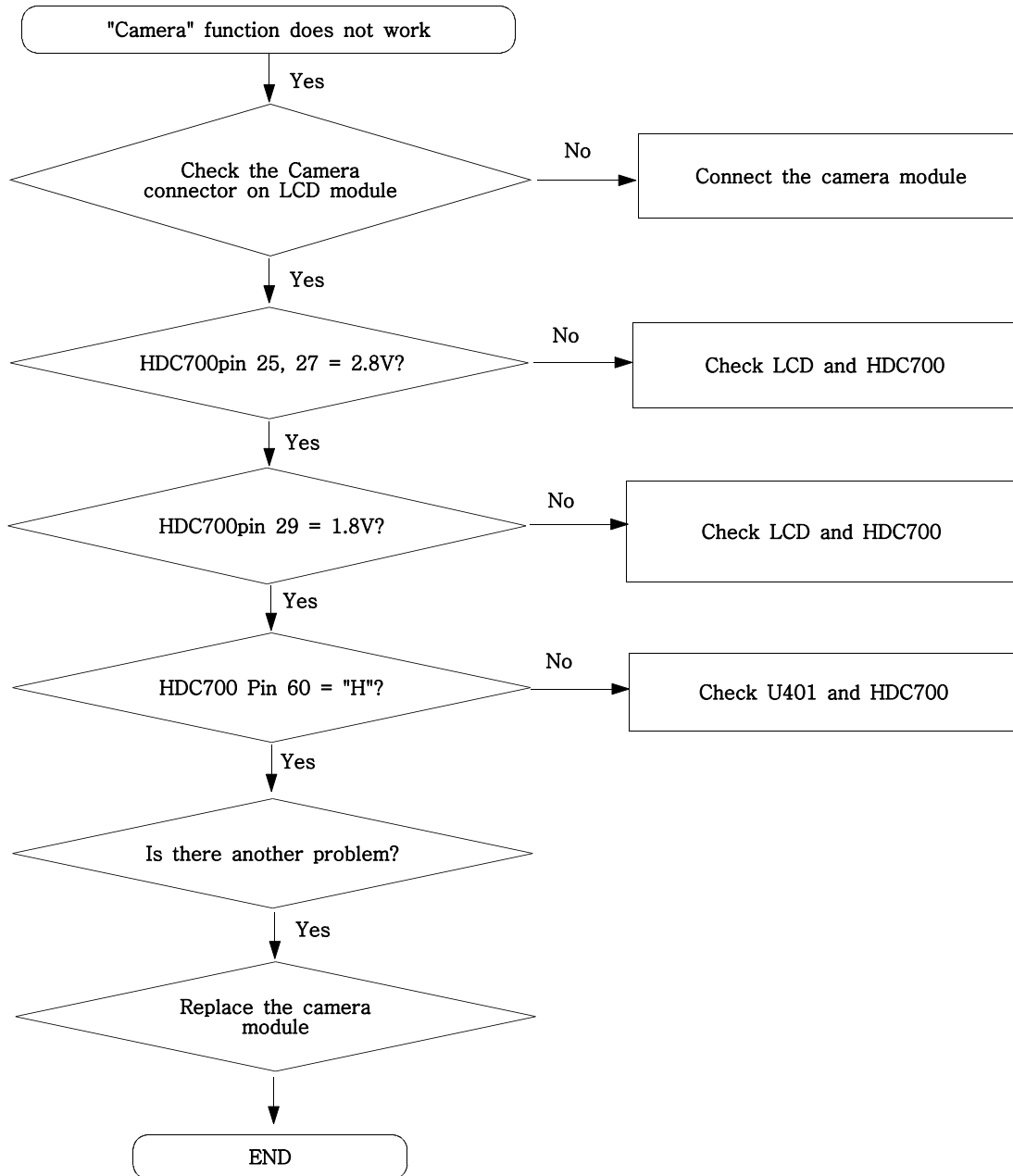


9-10. Key Back Light (Main)

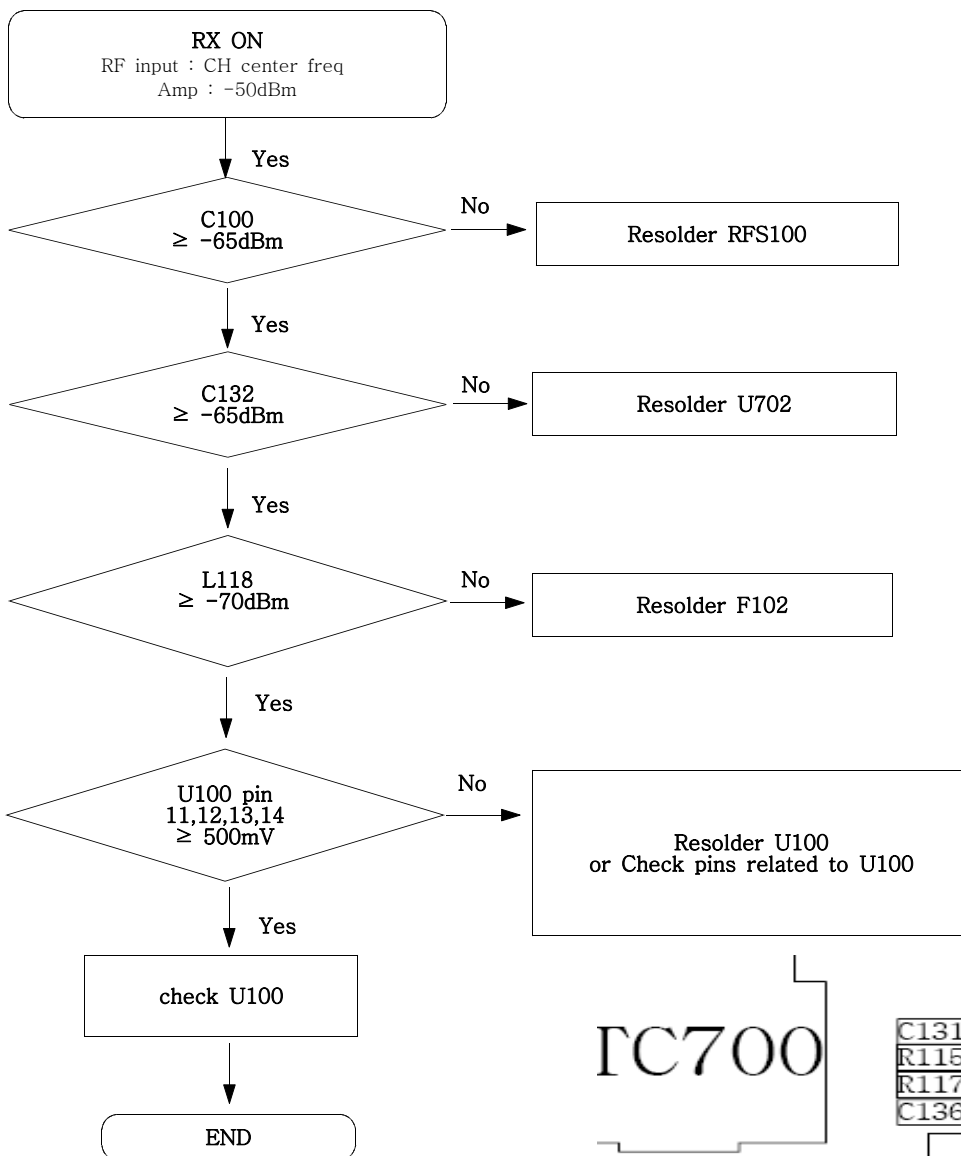




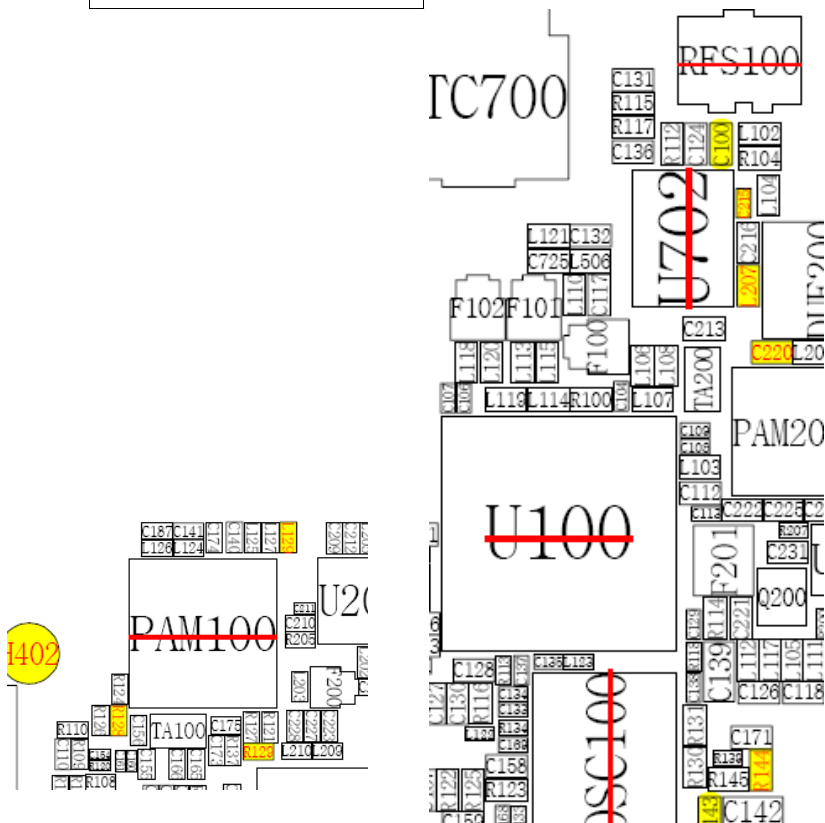
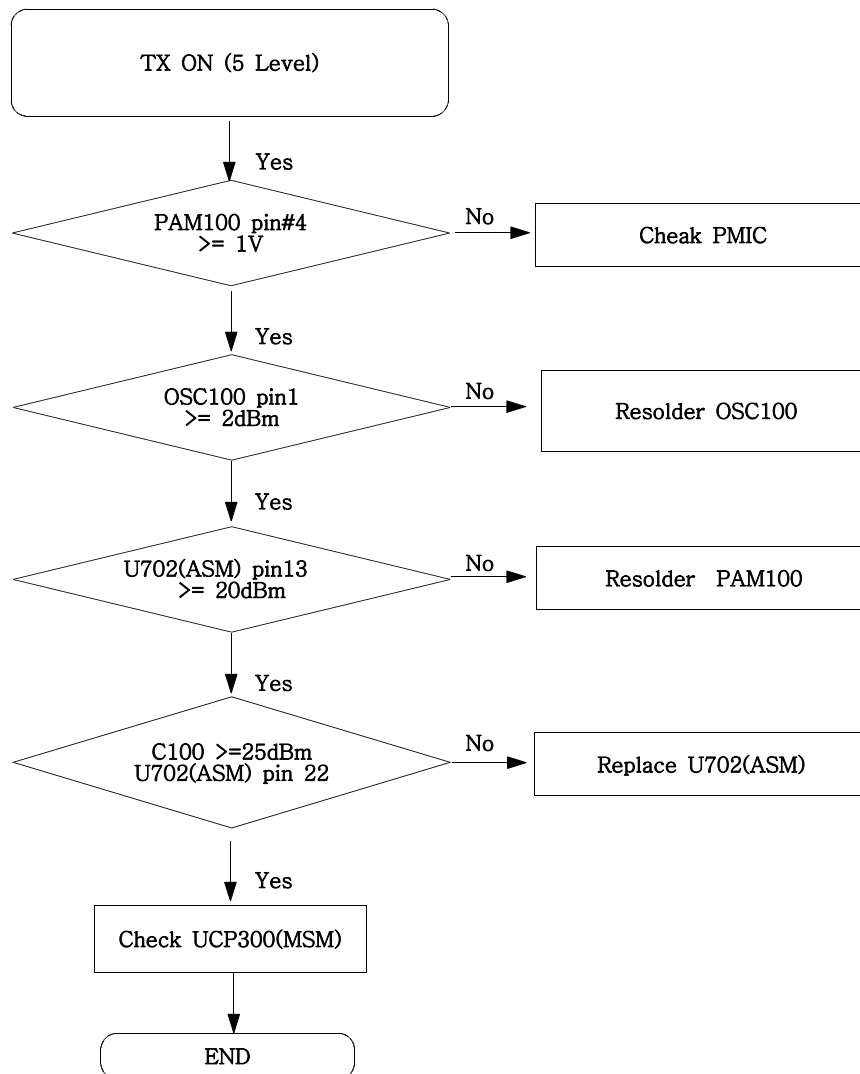
9-11. Camera part

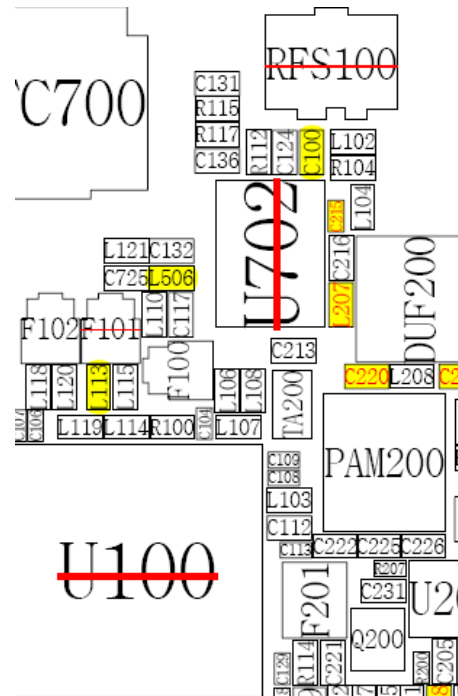


9-12. GSM900 Receiver

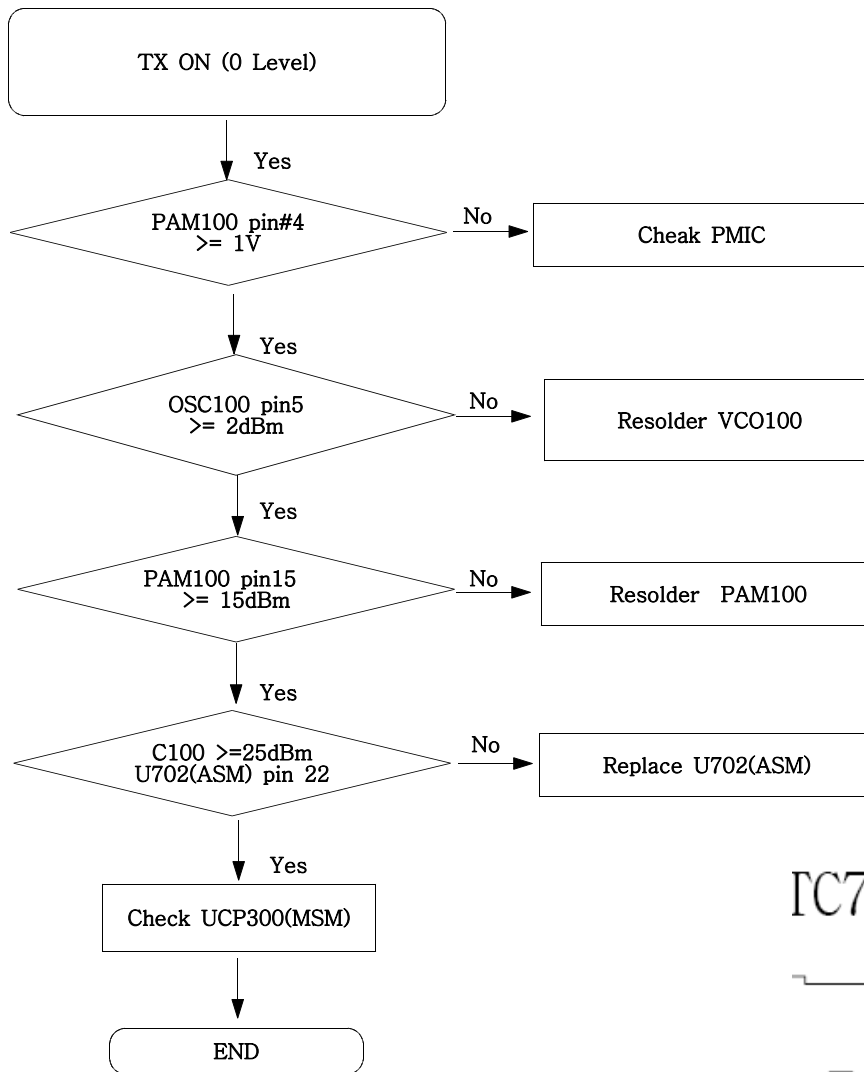


9-13. GSM900 Transmitter

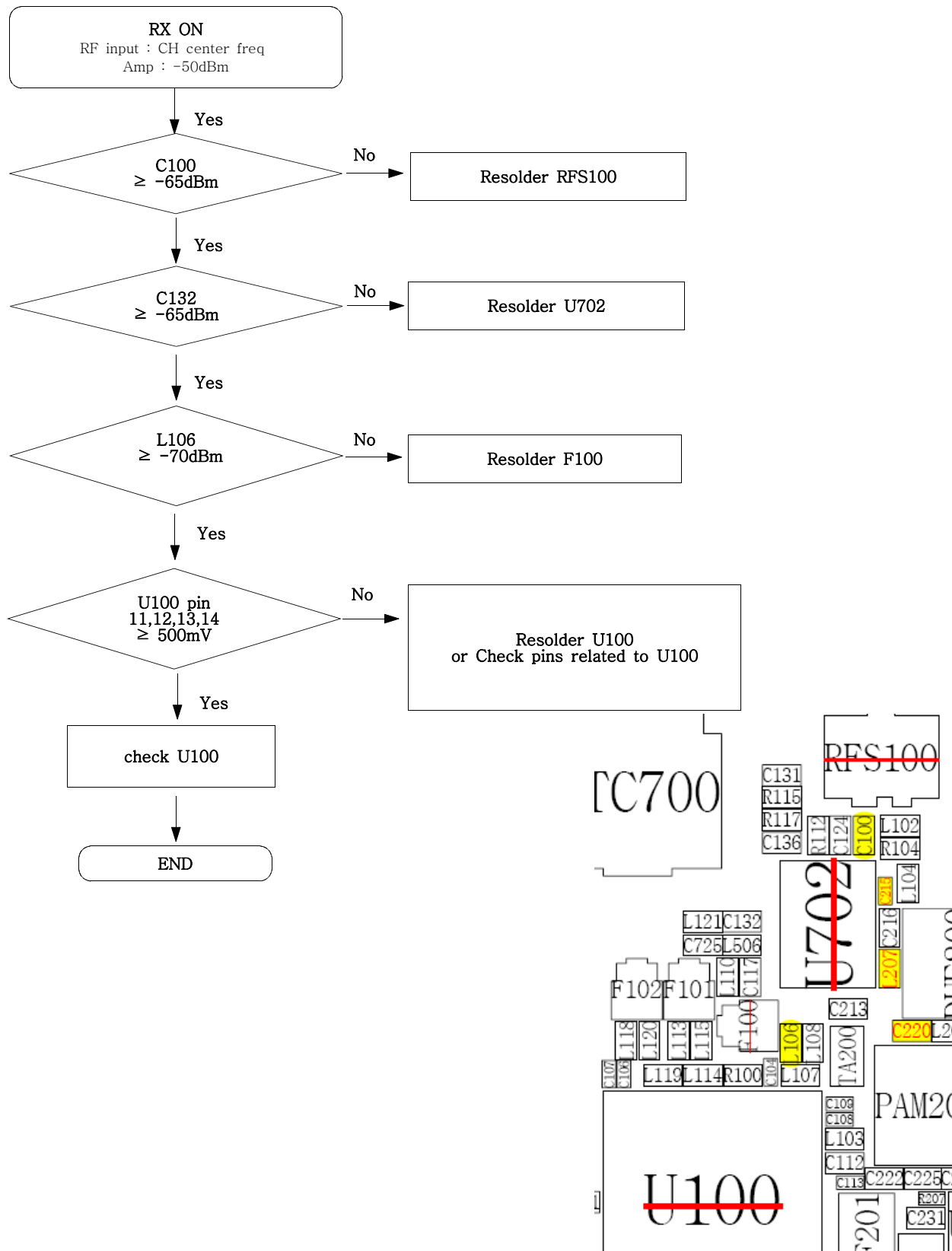




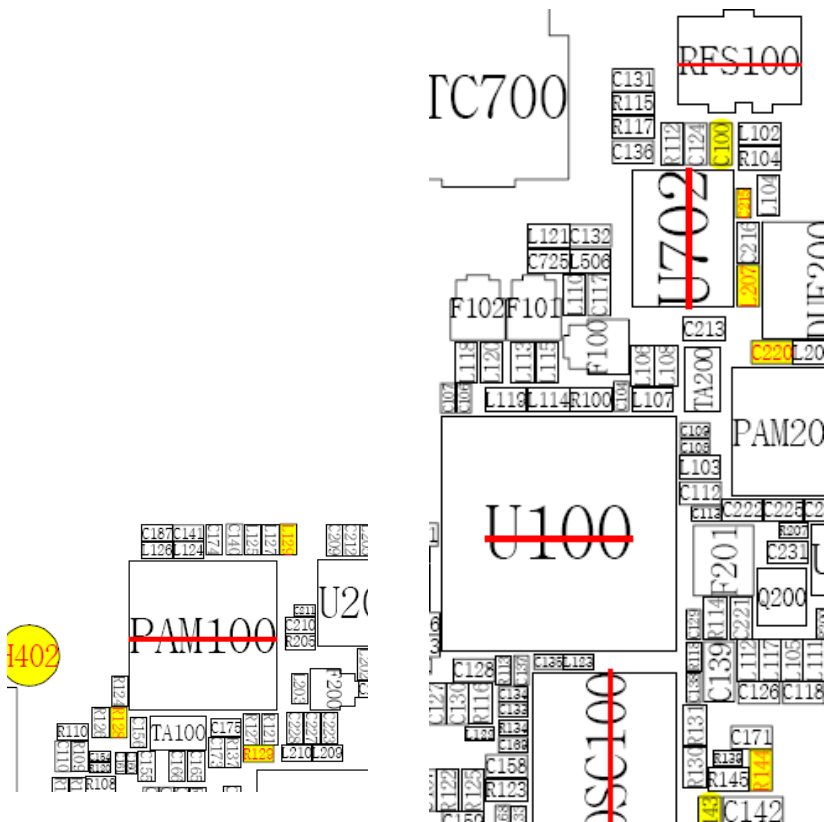
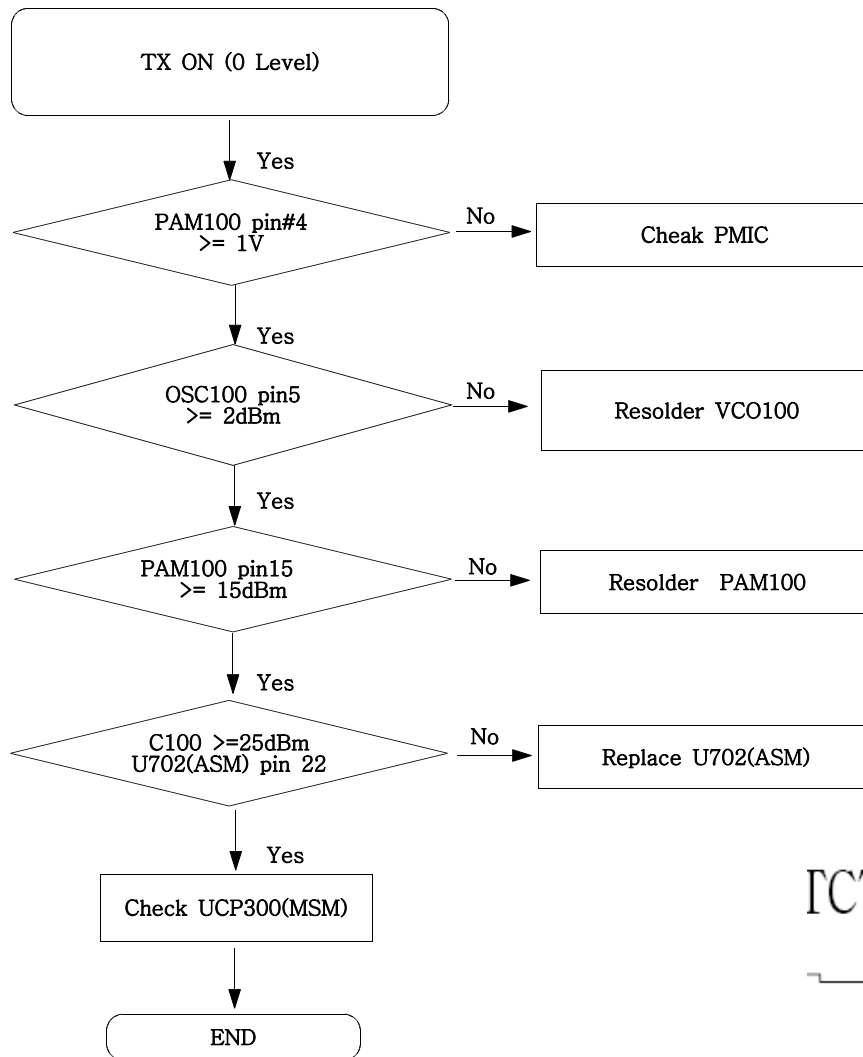
9-15. DCS Transmitter



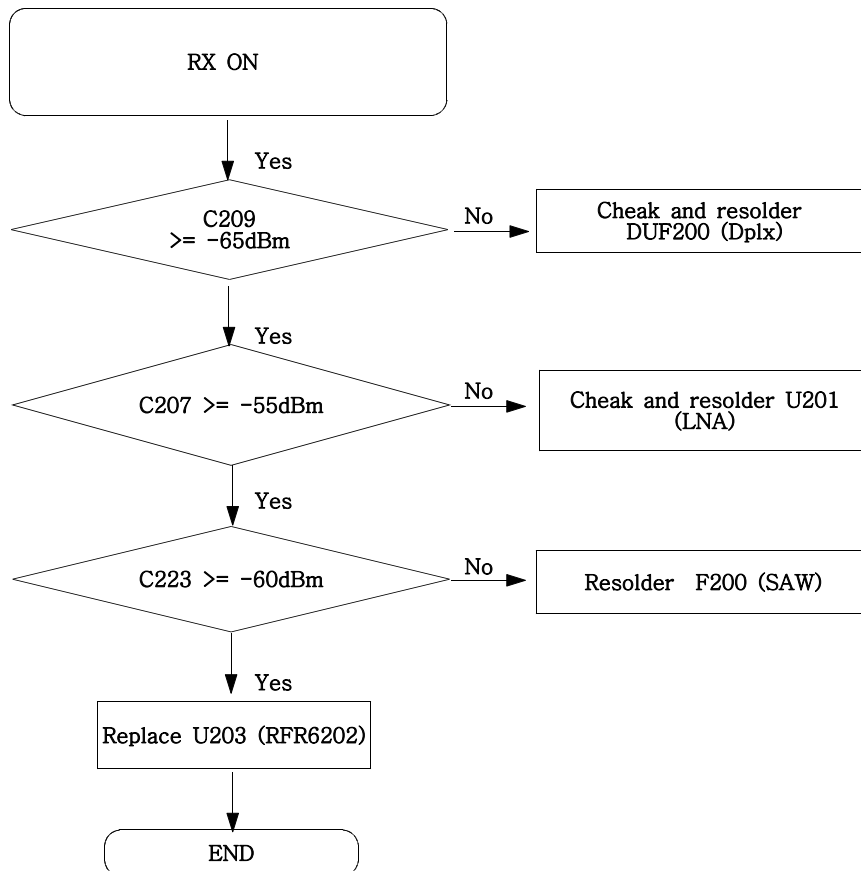
9-16. PCS Receiver



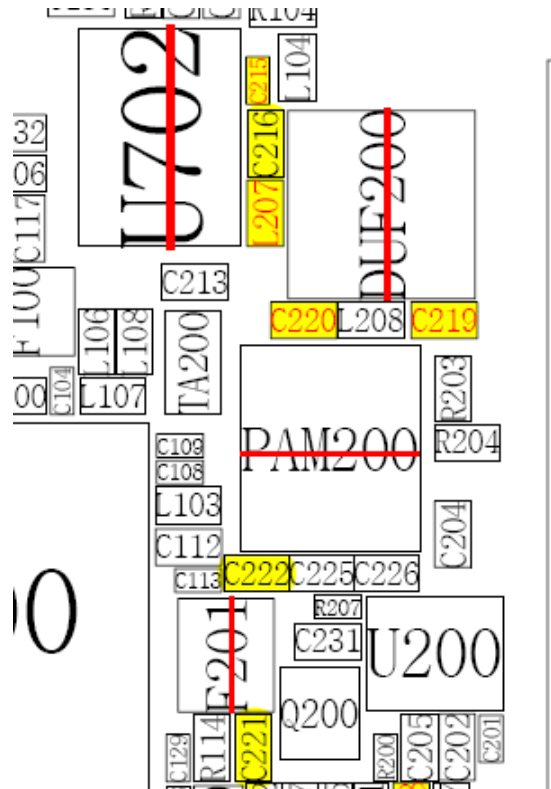
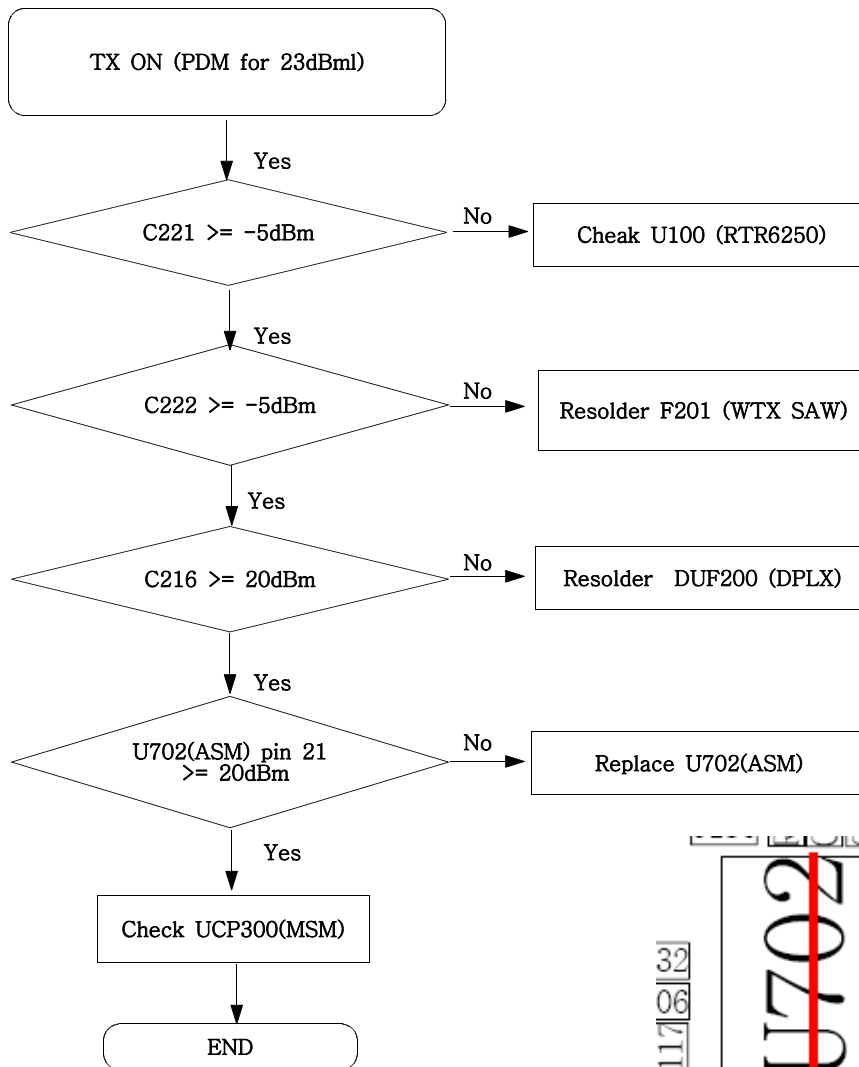
9-17. PCS Transmitter



9-18. WCDMA Receiver

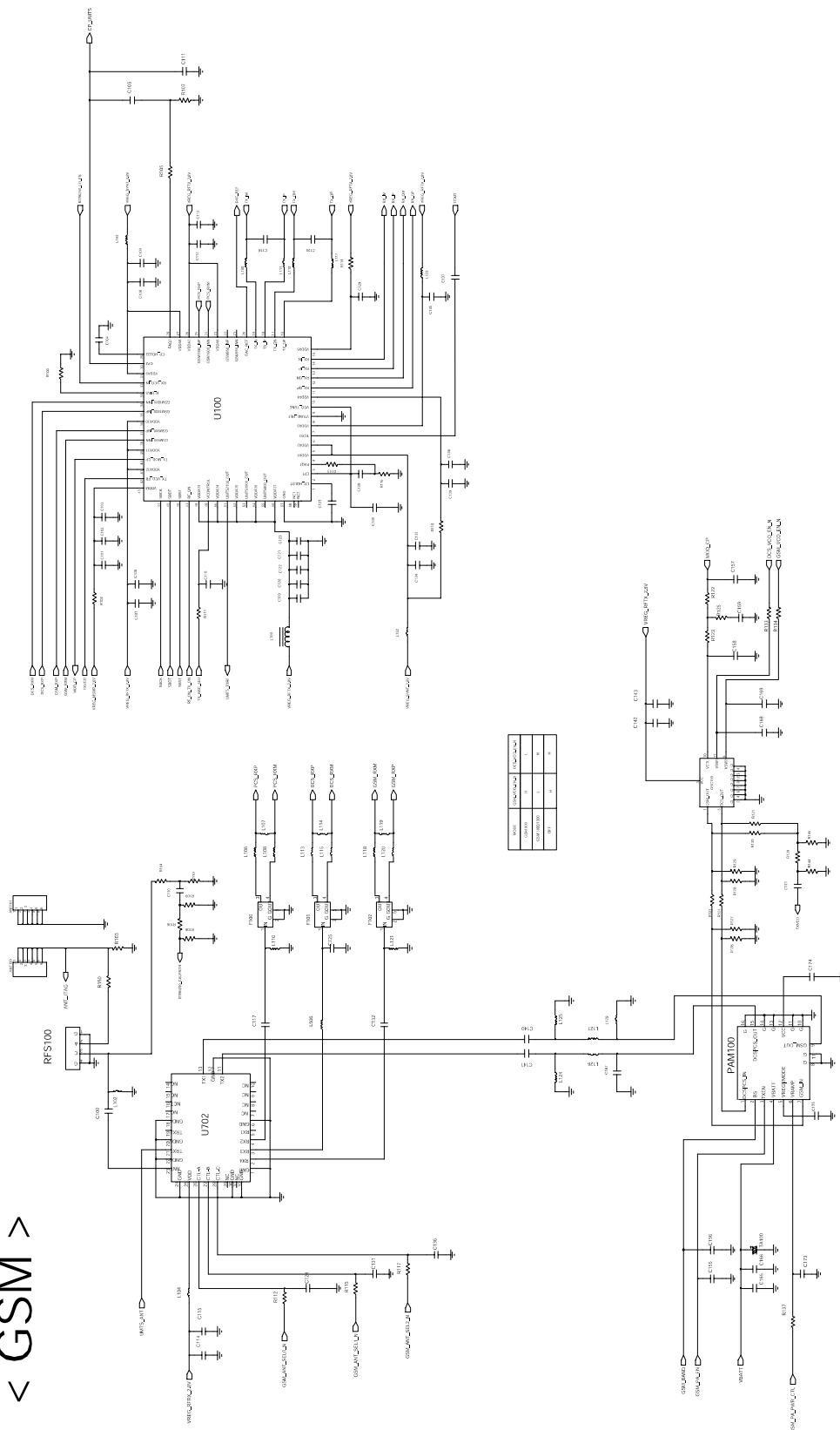


9-19. WCDMA Transmitter



2G Transmitter/Receiver

< GSM >



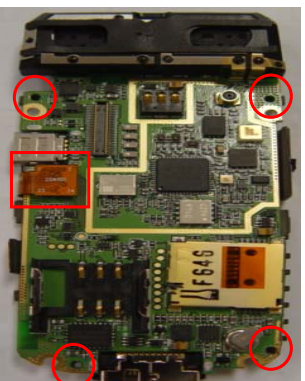
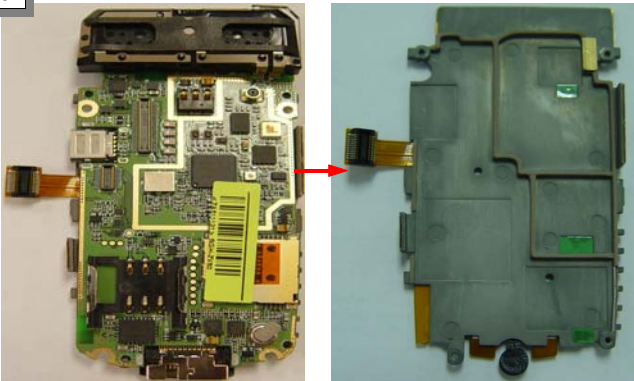
10. Reference data

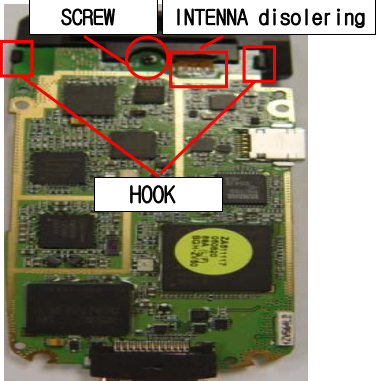
10-1. Reference Abbreviate

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

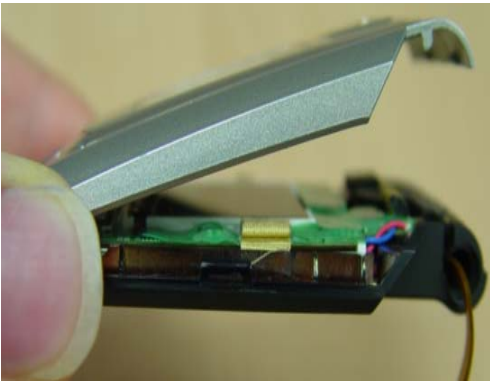
11. Disassembly and Assembly Instructions

11-1. Disassembly

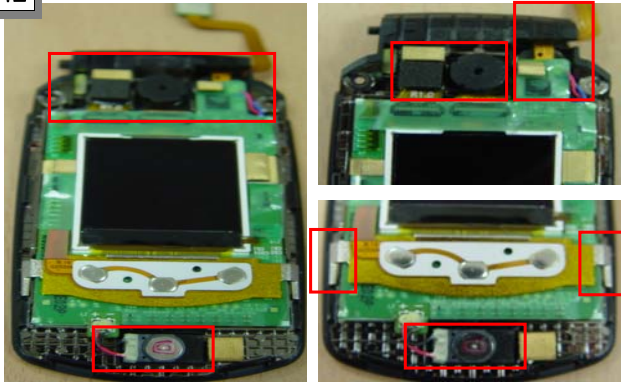
1  1.Unscrew 4 points on REAR	2  1.DISASSEMBLE REAR COVER
3  1.DISCONNECT LCD CONNECTOR FROM PBA	4  1.DIVIDE ASSAY into FRONT COVER and PBA
5  1.DISCONNECT KEY PCB CONNECTOR FROM PBA 2. Unscrew 4POINT On PBA	6  1.DIVIDE ASSAY PBA into SHIELD CAN

7  SCREW ANTENNA disassembling HOOK	
1.UNSCREW 1POINT , DISSOLDERING ANTENNA , Unhook ANTENNA on PBA	

8 	9 
1.Remove dust-proof tape	1.Disassemble FOLDER UPPER

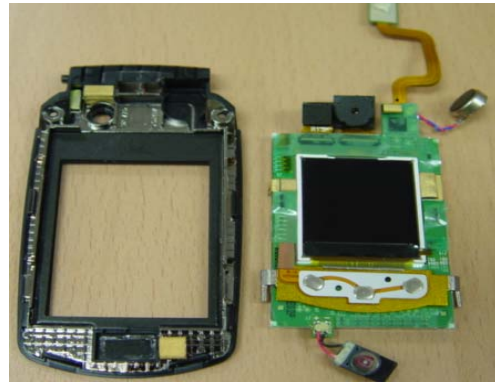
10 	11 
1.remove SCREW CAP / 2.UNSCREW	1.Disassemble FOLDER UPPER

12



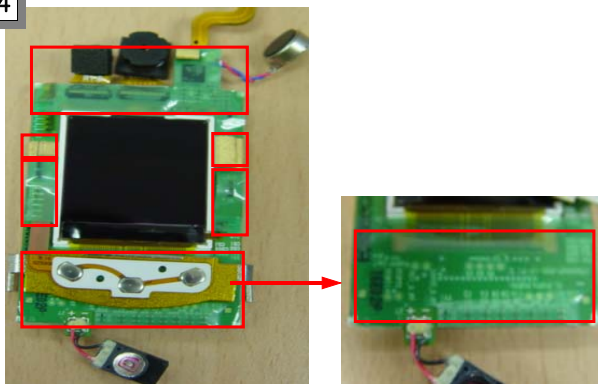
1.DISASSEMBLE RECEIVER,MP3 BRACKET,LCD FPCB,CAMERA

13



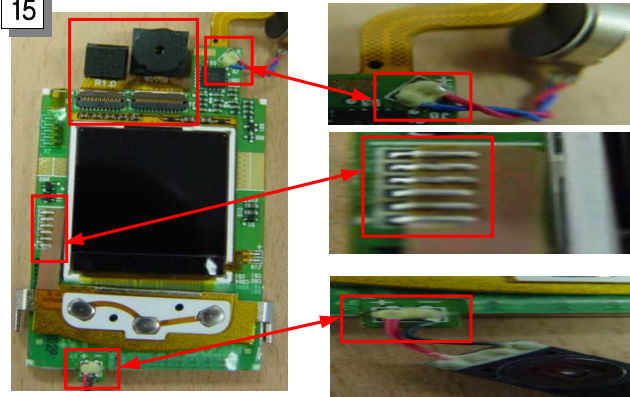
1.DISASSEMBLE FOLDER LOWER,LCD

14



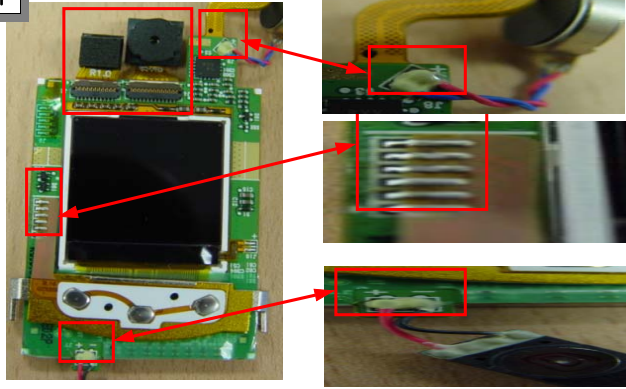
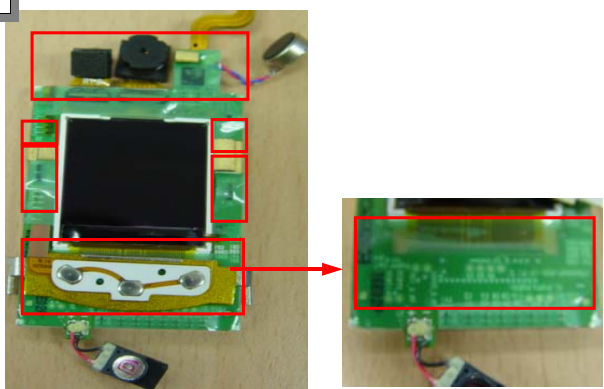
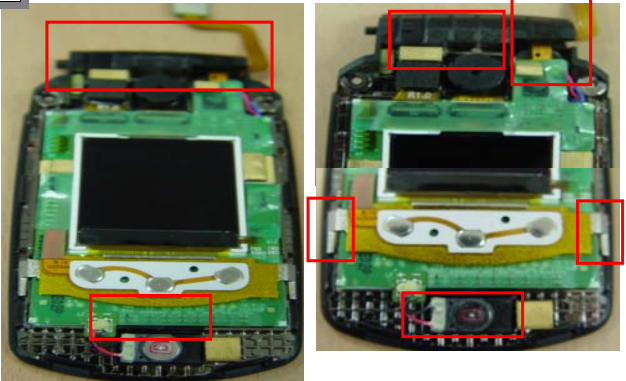
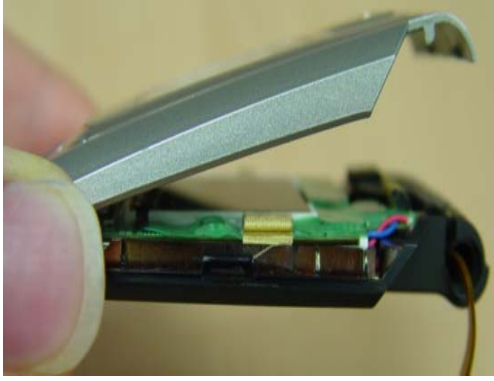
1.Remove Insulation TAPE and SHIELD TAPE, SHIELD SPONGE

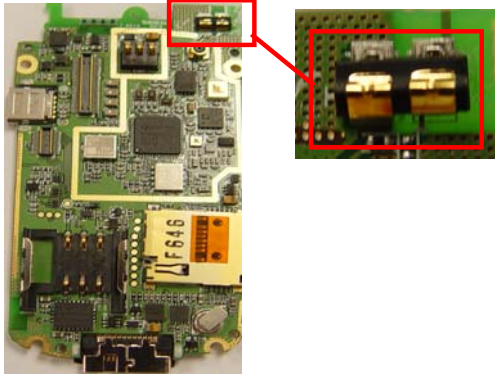
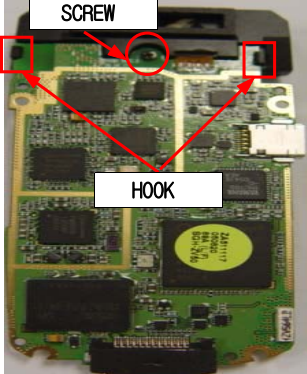
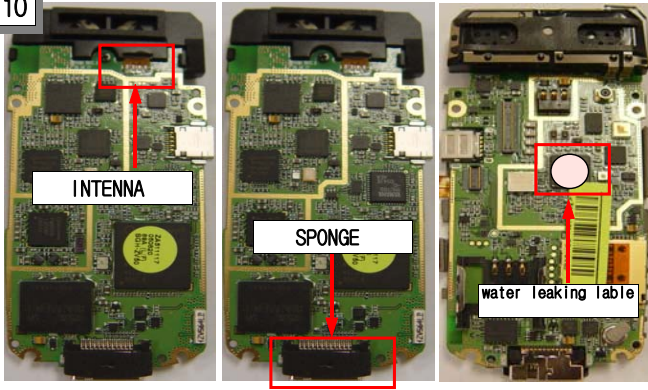
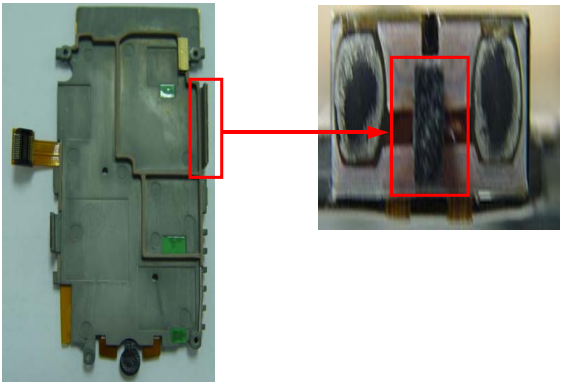
15

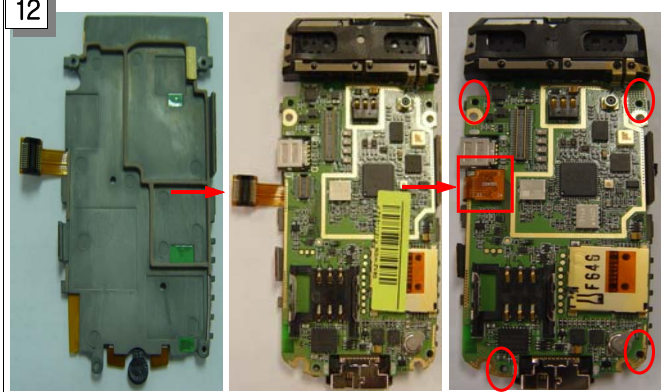


1.DISOLDER CAMERA 2ea,MOTOR ,RECEIVER,MP3 KEY

11-2. Assembly

1  1.Put MEGA CAMERA , VGA CAMERA module 2.solder MOTOR,RECEIVER , MP3 KEY	2  1. Plate insulation TAPE and SHIELD SPONGE , SHIELD TAPE
3  2.Put MOTOR,CAMERA,RECEIVER,MP3 BRACKET on FOLDER UPPER	4  1.Assemble FOLDER UPPER and FOLDER LOWER into FOLDER ASSAY
5  1.Screw LCD LOWER to LCD UPPER 2. Adhere SCREW CAP to HOLE	6  1.Connect FOLDER with FRONT

7  1.Adhere Dust-proof TAPE	8  1.place KEY PAD on LCD front assay
8  1.inset ANTENNA RUBBER to ANTENNA CLIP	9  1. Hook ANTENNA on PBA 2. Screw ANTENNA to PBA
10  1.Adhere SPONGE and Water leaking label 2. Solder ANTENNA Fpcb to PBA PADs	11  1.adhere SPONGE to VOLUME KEY

12 	13 
1.CONNECT PBA with KEY PCB CONNECTOR 2. SCREW PBA to Shield Bracket (4 points)	1.Place PBA on FRONT 2. Connect PBA with LCD CONNECTOR

14 	15 
1.Assemble REAR and Front assay into phone	1.SCREW down REAR – 4 POINTs

16 	
1.Adhere SCREW CAP on REAR	

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