

SAMSUNG

GSM TELEPHONE

GT-B7350

SERVICE *Manual*

GSM TELEPHONE

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Notice :

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**SAMSUNG
ELECTRONICS**



GSPN (Global Service Partner Network)

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

2. Specification

2-1. GSM General Specification

	GSM850 Phase 1	EGSM 900 Phase 2	DCS1800 Phase 1	PCS1900	WCDMA2100	WCDMA900
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	880~915 925~960
ARFCN range	128~251	0~124 & 975~1023	512~885	512~810	UL:9612~9888 DL:10562~10838	UL:2712~2863, DL:2937~3088
Tx/Rx spacing	45MHz	45MHz	95MHz	80MHz	190MHz	45MHz
Mod. Bit rate/ Bit Period	270.833kbp s 3.692us	270.833kbp s 3.692us	270.833kbp s 3.692us	270.833kbp s 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: h: 10ms Slotlength: 0.667ms	FrameLength: h: 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

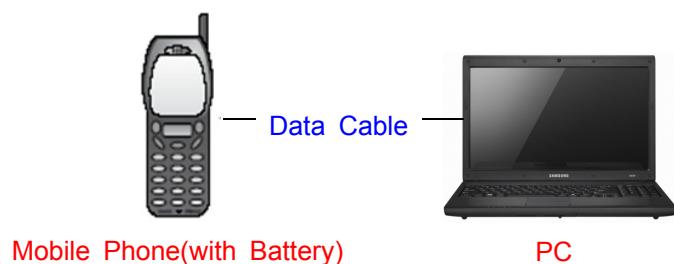
- GSM(2G EDGE/GPRS)850/900/1800/1900, WCDMA(3G HSDPA)W900/W2100
- HSDPA 7.2 Mbps
- 2.62" TFT Touch (R-type)
- Music player, Voice Recorder
- A-GPS / Bluetooth v2.0+EDR / WiFi (802.11 b/g)
- 3M Camera(AF)
- FM Radio Receiver
- USB 2.0 Full Speed
- Windows Mobile 6.5
- SMS/MMS/Email

6. Level 1 Repair

6-1. Software Download

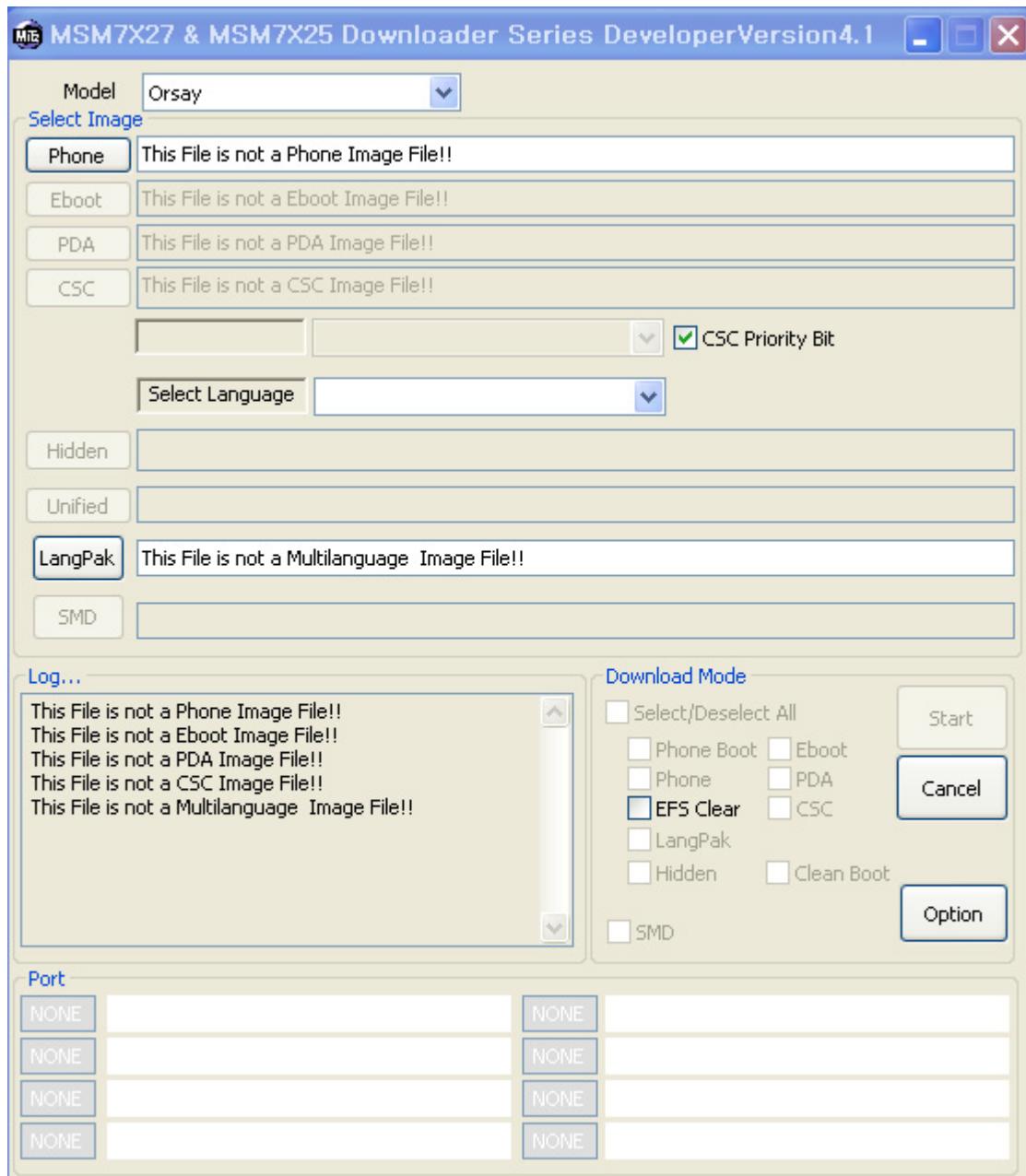
6-1-1. Pre-requisite for Download

- Downloader Program ([MSM7x27 & MSM7X25_MultiDownloader.exe](#))
 - GT-B7350 Mobile Phone
 - Data Cable
 - JIG BOX (GH99-36900A)
 - RF Test Cable (GH39-00985A)
 - JIG Cable (GH39-01338A)
 - Adapter (GH99-38251A)
 - Binary files
- Diagram of Connection:

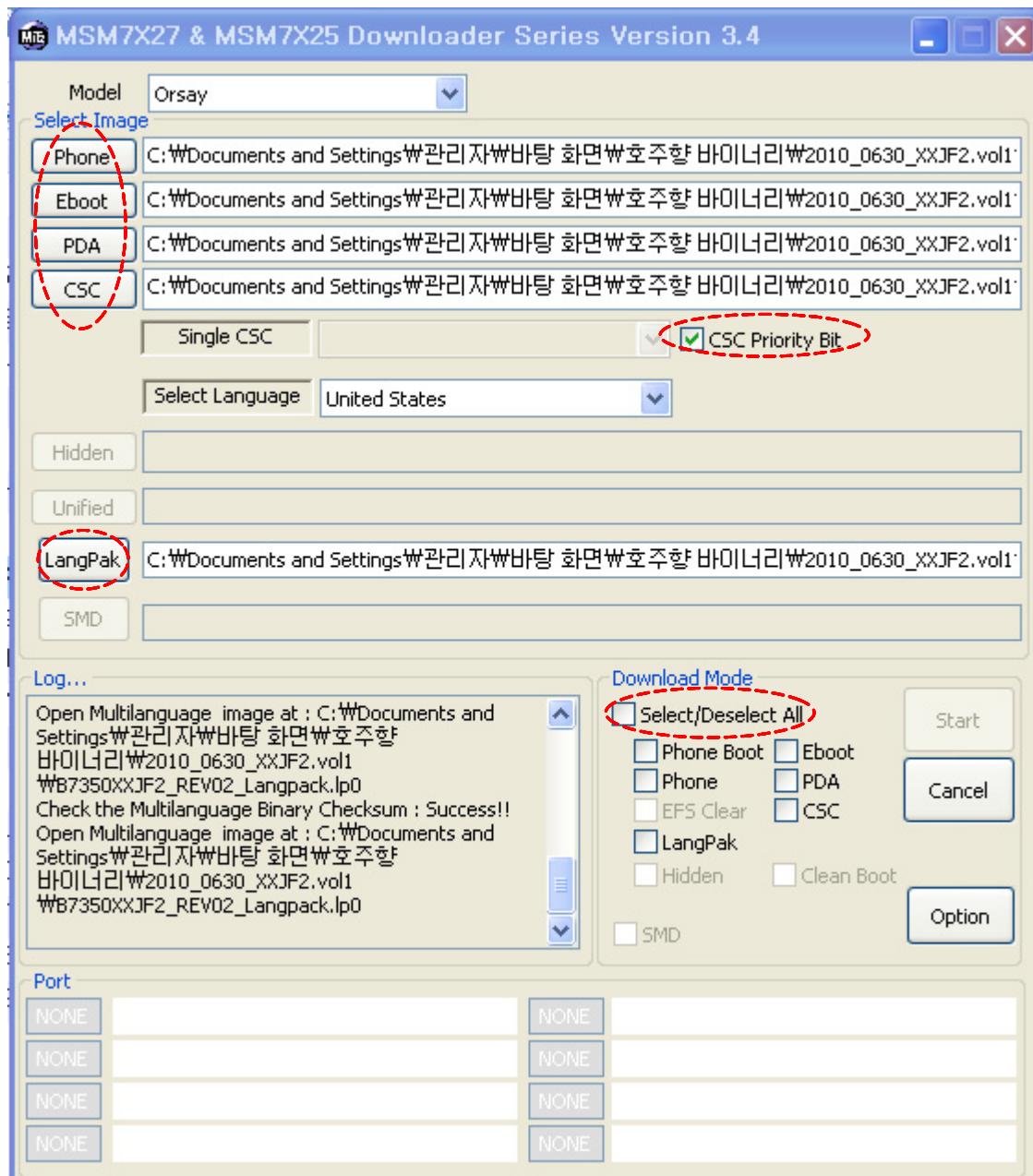


6-1-2. S/W Download Process

1. Load the binary download program by executing the "MSM7x27 & MSM7X25_MultiDownloader.exe"

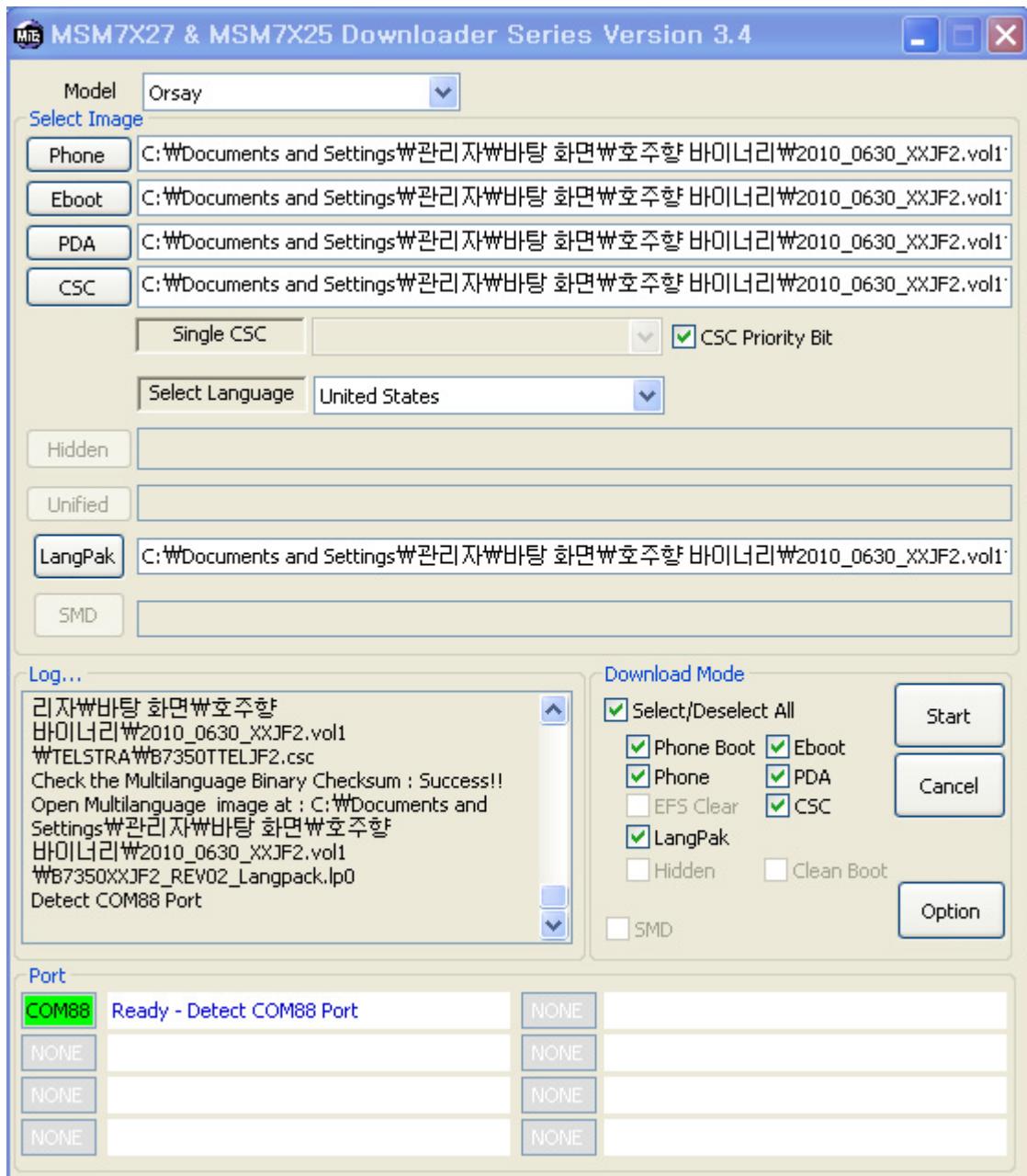


2. Set the Download program



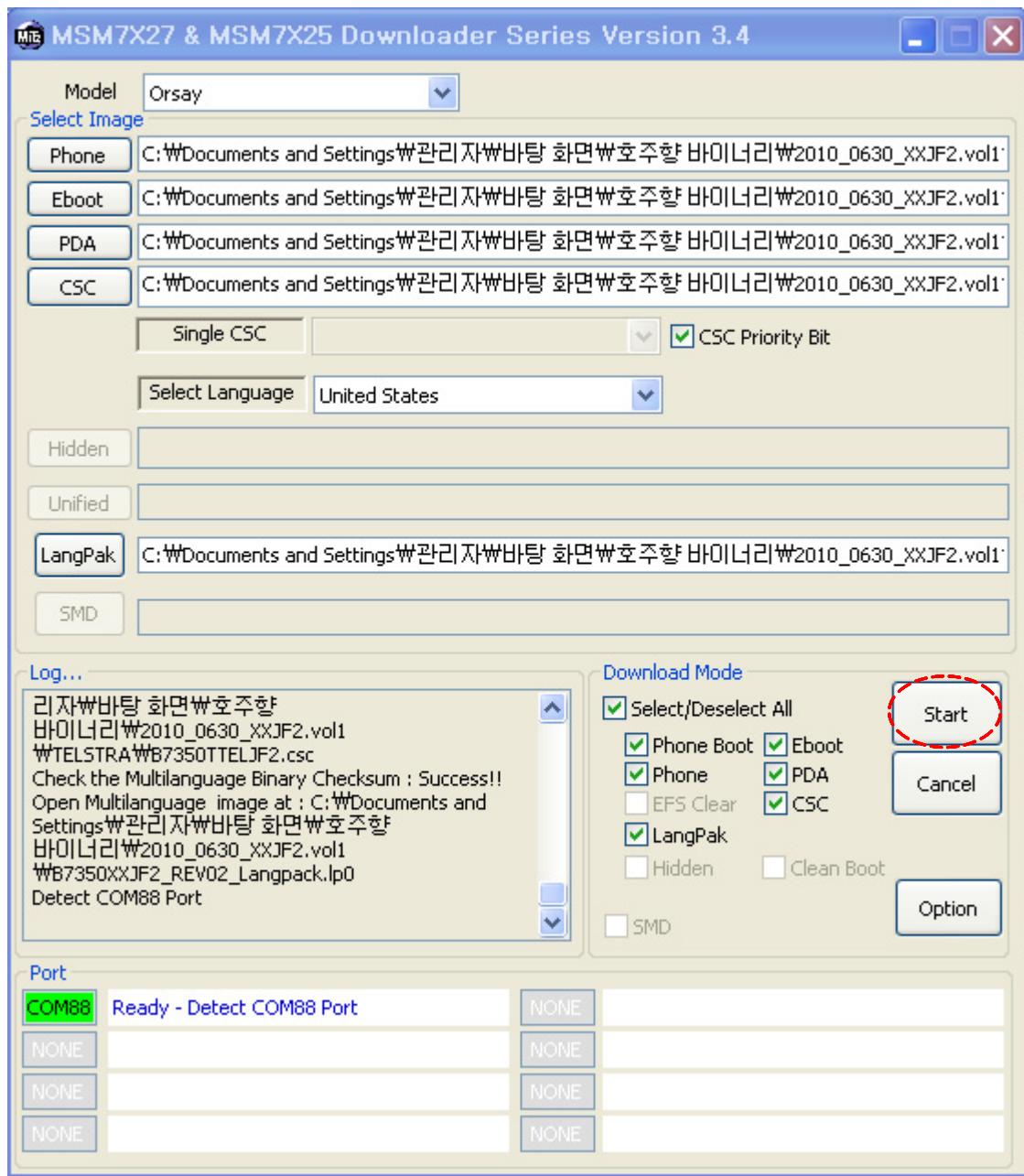
- (1).Load "phone,Eboot,PDA,CSC,LangPak" files
- (2) Check "CSC Priority Bit" and "Select/Deselete All"

3. COM Port Mapping change to **Green Color** when the phone with download mode is connected to PC by data cable.

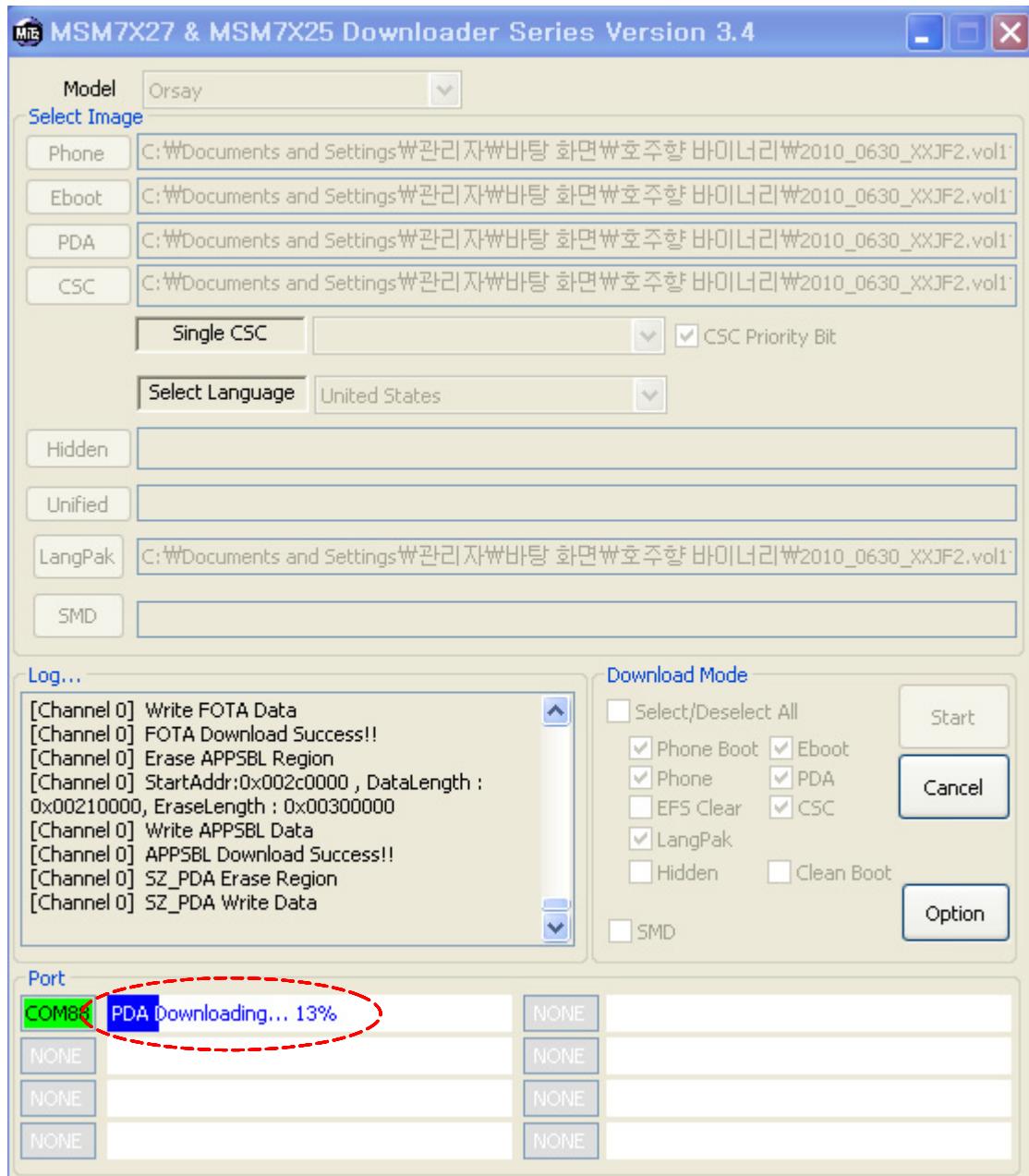


cf. You have to set the phone as a download mode by pressing Volume down + Hold key + End key simultaneously before connecting to PC .

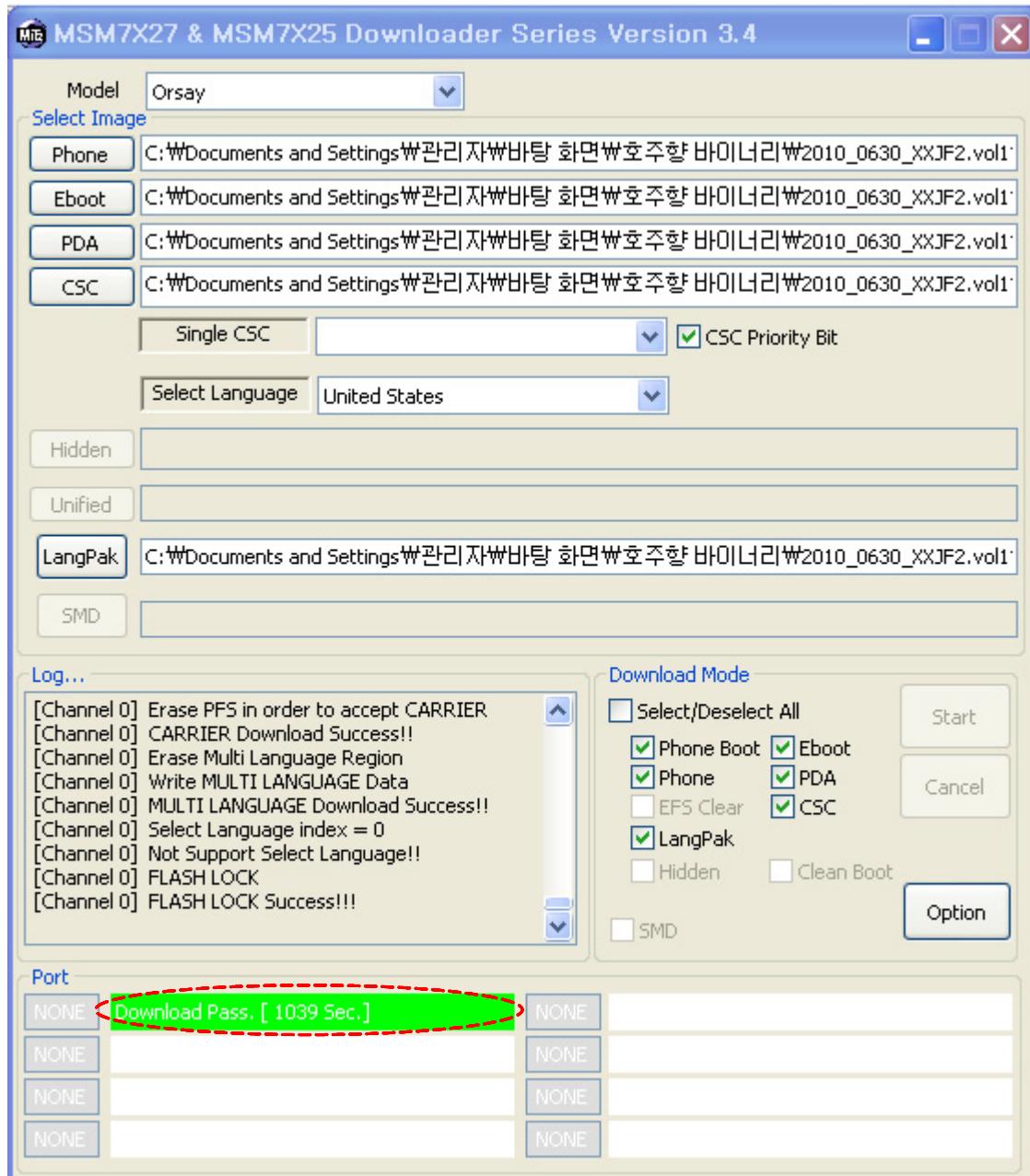
4. Click the **Start** button when the Port searched.



It will start to download.



5. When downloading is finished successfully, there is a "DownLoad Pass" message.



6. Confirm the downloaded version name and etc. :

*#1234#

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
- **C/I** : Carrier to Interference
- **DMB** : Digital Multimedia Broadcasting
- **EN** : European Standard
- **ES** : Elementary Stream
- **ETSI**: European Telecommunications Standards Institute
- **MPEG**: Moving Picture Experts Group
- **PN** : Pseudo-random Noise
- **PS** : Pilot Symbol
- **QPSK**: Quadrature Phase Shift Keying
- **RS** : Reed-Solomon
- **SI** : Service Information
- **TDM** : Time Division Multiplexing
- **TS** : Transport Stream

1. Safety Precautions

1-1. Repair Precaution

- Repair in Shield Box, during detailed tuning. Take specially care of tuning or test, because specificity of cellular phone is sensitive for surrounding interference(RF noise).
- Be careful to use a kind of magnetic object or tool, because performance of parts is damaged by the influence of magnetic force.
- Surely use a standard screwdriver when you disassemble this product, otherwise screw will be worn away.
- Use a thicken twisted wire when you measure level.
A thicken twisted wire has low resistance, therefore error of measurement is few.
- Repair after separate Test Pack and Set because for short danger (for example an overcurrent and furious flames of parts etc) when you repair board in condition of connecting Test Pack and tuning on.
- Take specially care of soldering, because Land of PCB is small and weak in heat.
- Surely tune on/off while using AC power plug, because a repair of battery charger is dangerous when tuning ON/OFF PBA and Connector after disassembling charger.
- Don't use as you pleases after change other material than replacement registered on SEC System. Otherwise engineer in charge isn't charged with problem that you don't keep this rules.

1-2. ESD(Electrostatically Sensitive Devices) Precaution

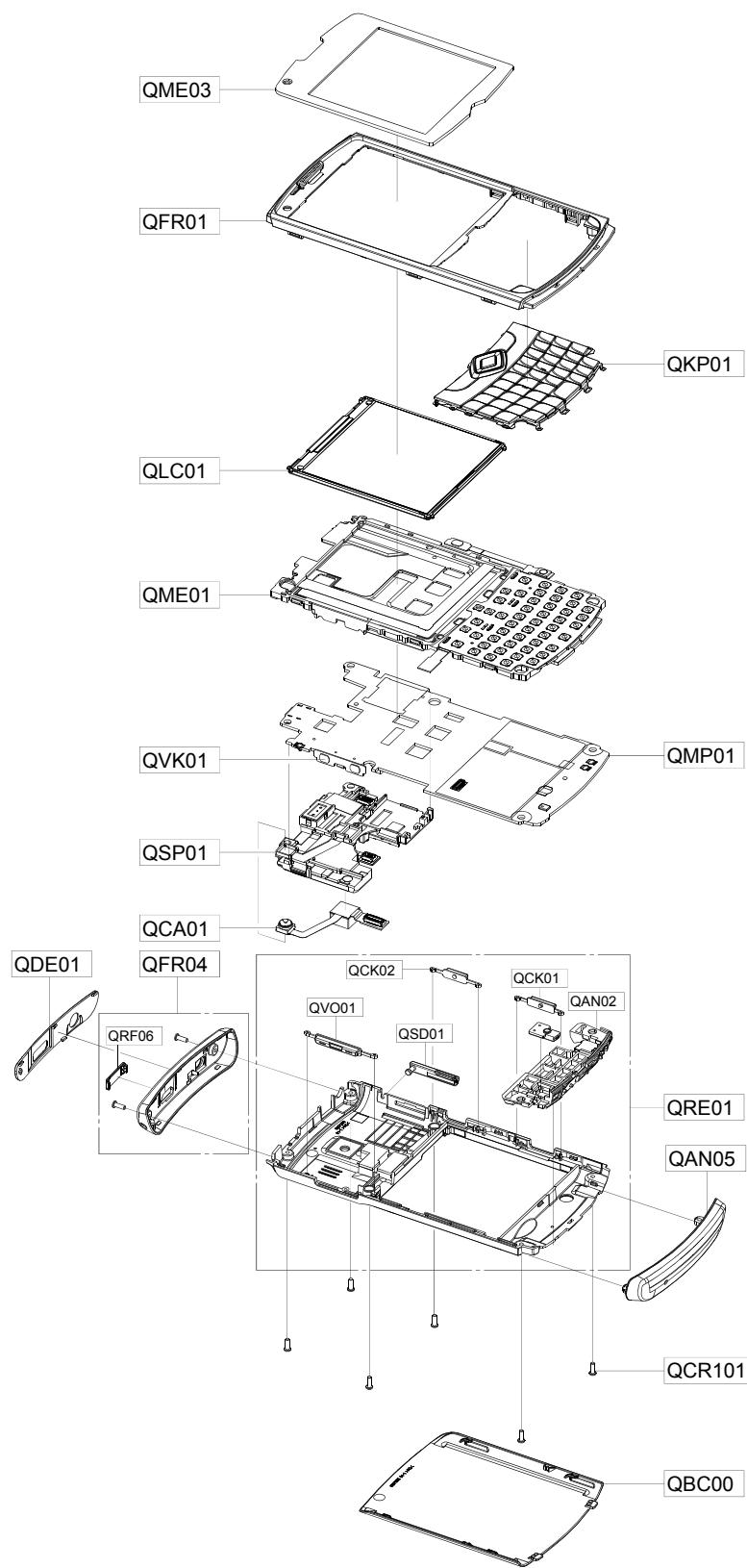
Several semiconductor may be damaged easily by static electricity. Such parts are called by ESD (Electrostatically Sensitive Devices), for example IC,BGA chip etc. Read Precaution below.

You can prevent from ESD damage by static electricity.

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

4. Exploded View and Parts List

4-1. Cellular phone Exploded View



4-2. Cellular phone Parts list

Design LOC		Description	SEC CODE
QCR101		SCREW-MACHINE	6001-002005
QSP01		MODULE-SPK/MOT/RCV	GH59-09738A
QCA01		CAMERA MODULE-GT-B7350,3AF_CIF CAMERA MO	GH59-09812A
QVK01		KEY FPCB-VOL KEY(GT_B7350)	GH59-09772A
QME03		TOUCH/PANEL-TOUCH KEY(GT_B7350)	GH59-09840A
QMP01		A/S ASSY-PBA MAIN (COMM)	GH82-05111A
QLC01		ASSY LCD-2.6" 320X320 GT-B7350 ASSY	GH96-04750A
QME01		ASSY MODULE-TF KEY PBA+BRACKET(GTB7350)	GH96-04853A
QFR01		ASSY COVER-FRONT(EU/OG)	GH98-17299A
QKP01		ASSY KEYPAD-MAIN(XK/OPEN)	GH98-17300A
QDE01		ASSY DECO-TOP CAP	GH98-17305A
QAN05		ASSY COVER-INTENNA	GH98-17306A
QBC00		ASSY COVER-BATT	GH98-17619A
QFR04		ASSY DECO-TOP	GH98-17304A
	QRF06	PMO COVER-USB	GH72-60105A
QRE01		ASSY COVER-REAR	GH98-17518A
	QAN02	INTENNA-GT_B7350(MAIN)	GH42-02623A
	QCK02	PMO KEY-HOLD	GH72-60100A
	QCK01	PMO KEY-CAMERA	GH72-60101A
	QVO01	PMO KEY-VOLUME	GH72-60102A
	QSD01	PMO COVER-SD	GH72-60103A

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5-2. Cellular phone Parts list : GT-B7350XKAXEF

Design LOC	Description	SEC CODE
QAN02	INTENNA-GT_B7350(MAIN)	GH42-02623A
QAN05	ASSY COVER-INTENNA	GH98-17306A
QBC00	ASSY COVER-BATT	GH98-17619A
QCA01	ASSY CAMERA-MODULE(B7350_3M)	GH96-04926A
QCK01	PMO KEY-CAMERA	GH72-60101A
QCK02	PMO KEY-HOLD	GH72-60100A
QCR101	SCREW-MACHINE	6001-002005
QDE01	ASSY DECO-TOP CAP	GH98-17305A
QFR01	ASSY COVER-FRONT(EU/OG)	GH98-17299A
QFR04	ASSY DECO-TOP	GH98-17304A
QKP01	ASSY KEYPAD-MAIN(XK/FRAN)	GH98-17815A
QLC01	ASSY LCD-2.6" 320X320 GT-B7350 ASSY	GH96-04750A
QME01	ASSY MODULE-TF KEY PBA+BRACKET(GTB7350)	GH96-04853A
QME03	TOUCH/PANEL-TOUCH KEY(GT_B7350)	GH59-09840A
QMP01	A/S ASSY-PBA MAIN (COMM)	GH82-05111A
QRE01	ASSY COVER-REAR	GH98-17518A
QRF06	PMO COVER-USB	GH72-60105A
QSD01	PMO COVER-SD	GH72-60103A
QSP01	MODULE-SPK/MOT/RCV	GH59-09738A
QVK01	KEY FPCB-VOL KEY(GT_B7350)	GH59-09772A
QVO01	PMO KEY-VOLUME	GH72-60102A

7. Level 2 Repair

7-1. Disassembly

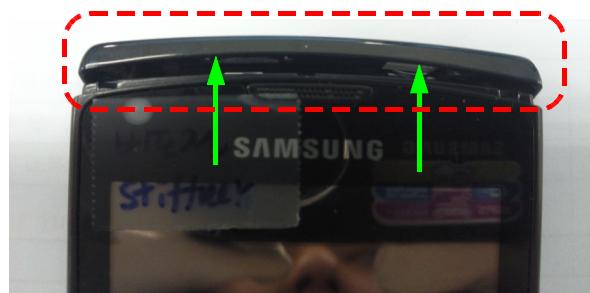
1

1)Disassemble Deco Top Cover.



2

1)Unscrew the 2 points of Deco Top.
2)Separate Deco Top from the SET.



* Caution

1) Be care of scratch and molding damage.

3

1)Unscrew the 6 points of Rear.



* Caution

1) Be care of scratch and molding damage.
2) Torque : 1.0 ~ 1.2 Kgf·cm

4

1) Separate Intenna Cover from the SET.



* Caution

1) Be care of scratch and molding damage.
2) Torque : 1.0 ~ 1.2 Kgf·cm

* Caution

1) Be care of scratch and molding damage.

7. Level 2 Repair

5 1) Separate the Rear Case from the Set.



6 1) Disconnect LCD connector
2) Separate PBA from the Ass'y



*** Caution**

1) Be care of scratch and molding damage.

7 1) Disconnect Key connector



*** Caution**

1) Be care of damage to LCD F-CPB.

8 1) Disconnect CAM, SPK connector



*** Caution**

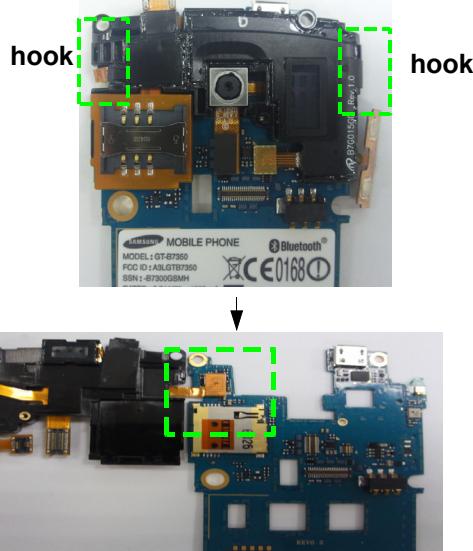
1) Be care of damage to Key F-CPB.

*** Caution**

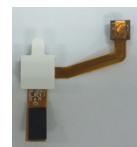
1) Be care of damage to part of PBA

9

- 1) Disassemble SPK Ass'y from PBA.
- 2) Disconnect SIM connector

**10**

- 1) Separate the Camera from SPK ass'y

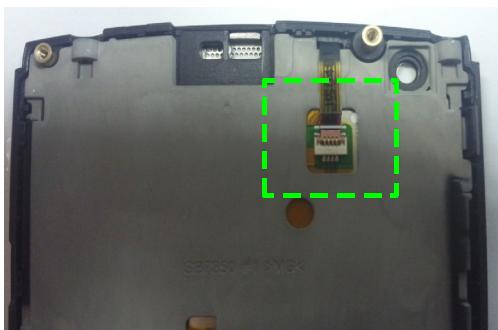


*** Caution**

- 1) Be care of damage to SIM F-CPB.

11

- 1) After Zip Connector open, separate TSP FPCB from Front Ass'y.

**12**

- 1) Separate the Bracket from Front Ass'y by disassembling hook.



*** Caution**

- 1) Be care of damage to TSP F-CPB

*** Caution**

- 1) Be care of scratch and molding damage.

13

1)Diassemble the LCD module from the Bracket



14

1))Diassemble TSP from Front



*** Caution**

- 1) Be care of damage to LCD

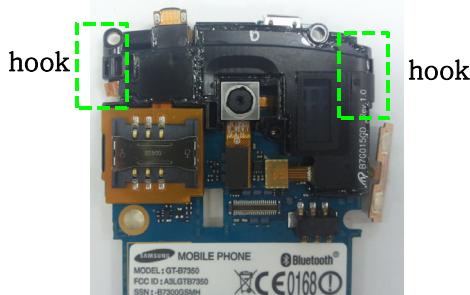
*** Caution**

- 1) Be care of damage to TSP.

7-2. Assembly

1

1)Assemble SPK Ass'y to PBA



2

1)Assemble LCD on the Bracket.

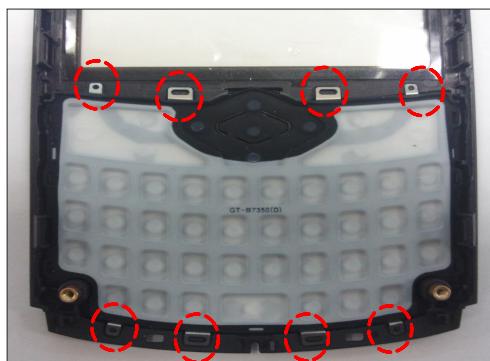


* Caution

- 1) Be care of damage to SPK

3

1)Assemble the Keypad on Front



* Caution

- 1) Be care of damage to LCD

4

1)Assemble the LCD bracket on the front



* Caution

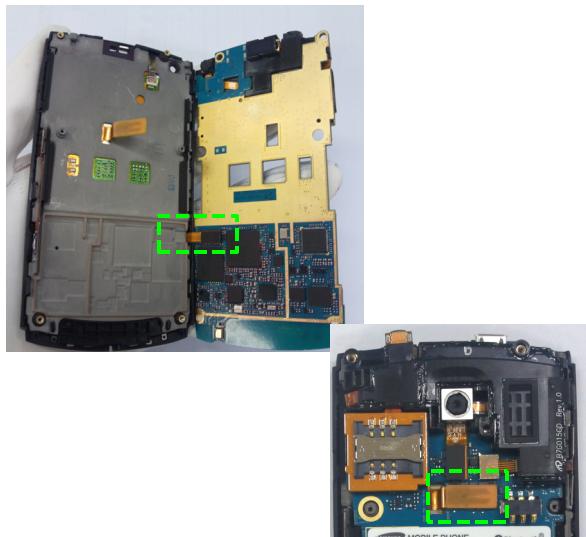
- 1) Be care of scratch and molding damage.

* Caution

- 1) Be care of scratch and molding damage.

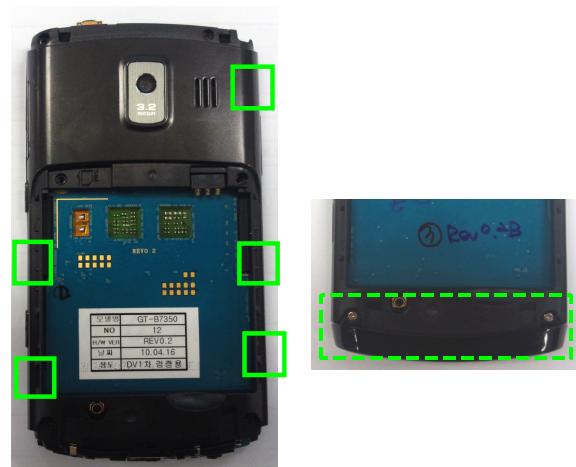
5

- 1) Assemble the PBA to LCD Bracket.
- 2) Assemble LCD connector on PBA



6

- 1) Assemble the Rear.
- 2) Assemble the Intenna Cover.



*** Caution**

- 1) Be care of damage to FPCB

7

- 1) Screw 6 point.



8

- 1) Assemble Deco Top.



*** Caution**

- 1) Be care of scratch and molding damage.
- 2) Torque : 1.0 ~ 1.2 Kgf·cm

9

1) Screw 2 point

**10**

1) Assemble Deco Top Cover.

*** Caution**

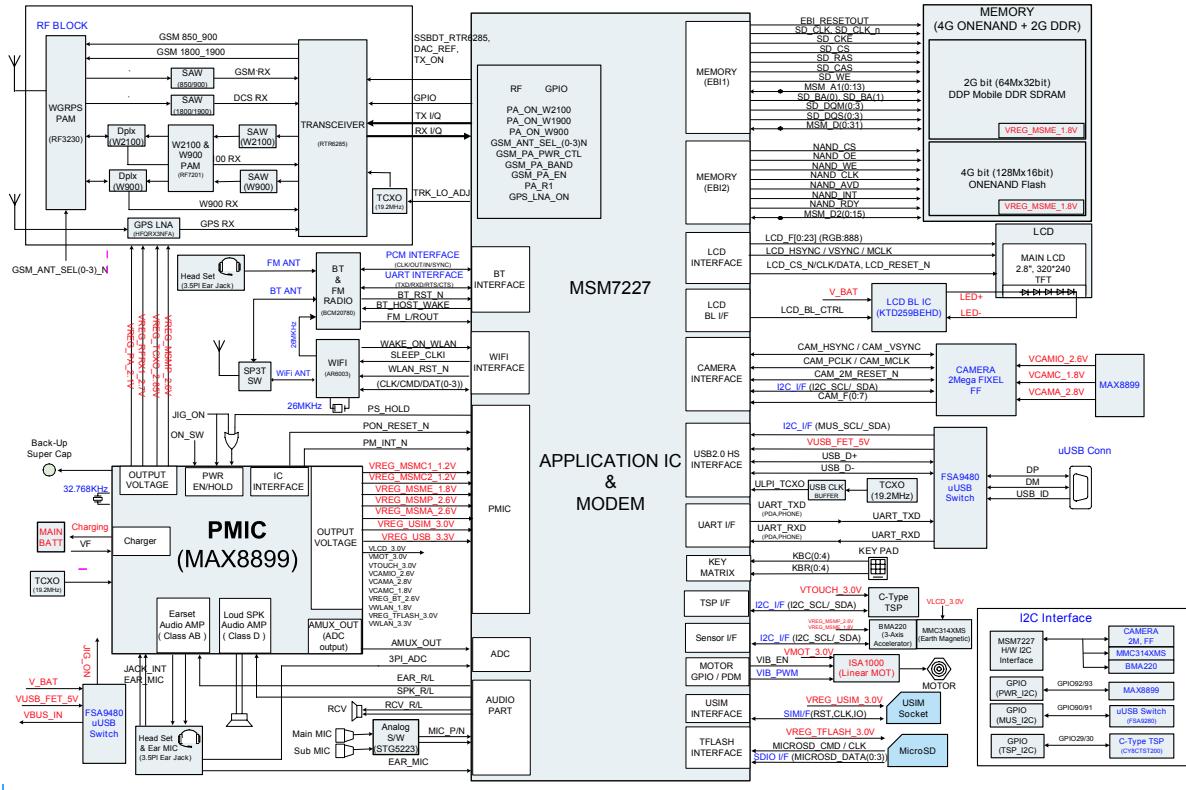
- 1) Be care of scratch and molding damage.
- 2) Torque : 1.0 ~ 1.2 Kgf·cm

*** Caution**

- 1) Be care of scratch and molding damage.

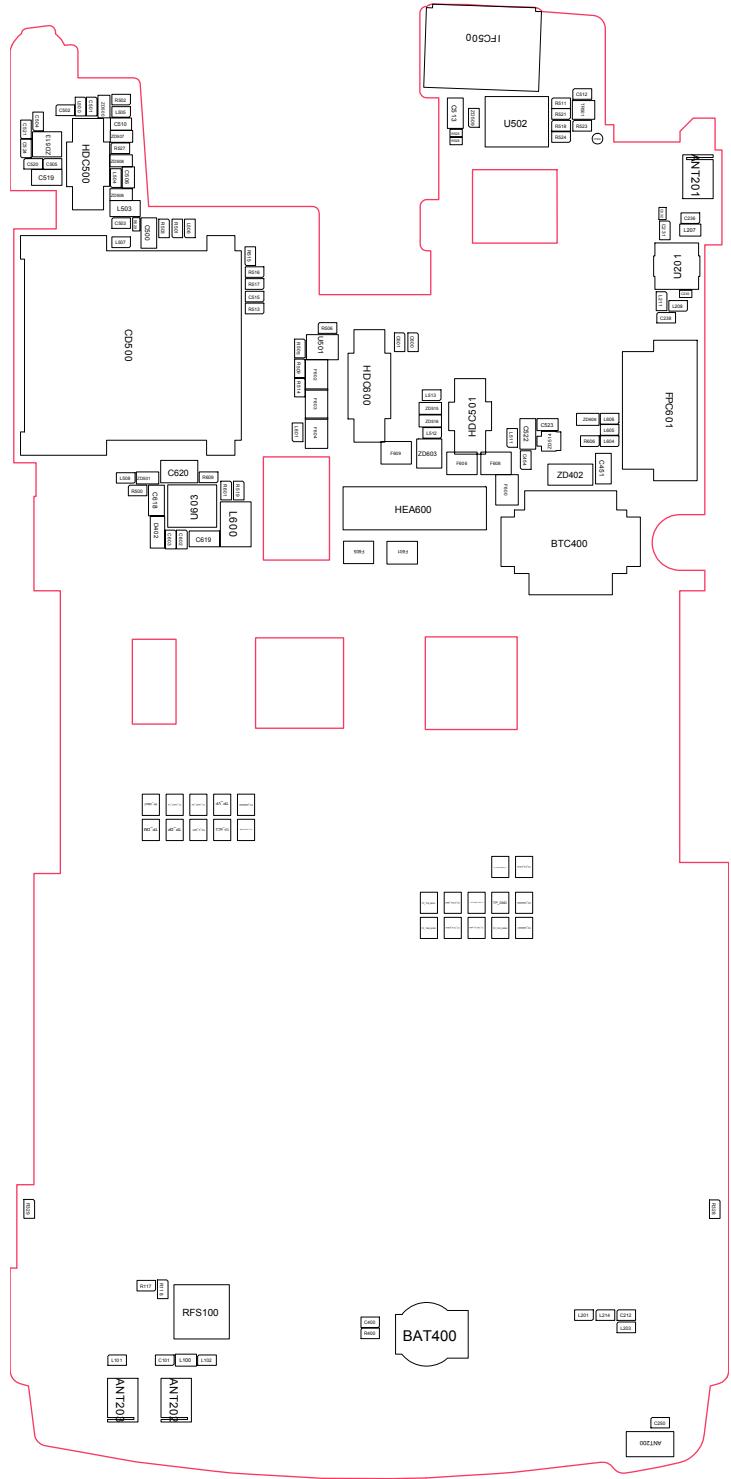
8. Level 3 Repair

8-1. Block Diagram

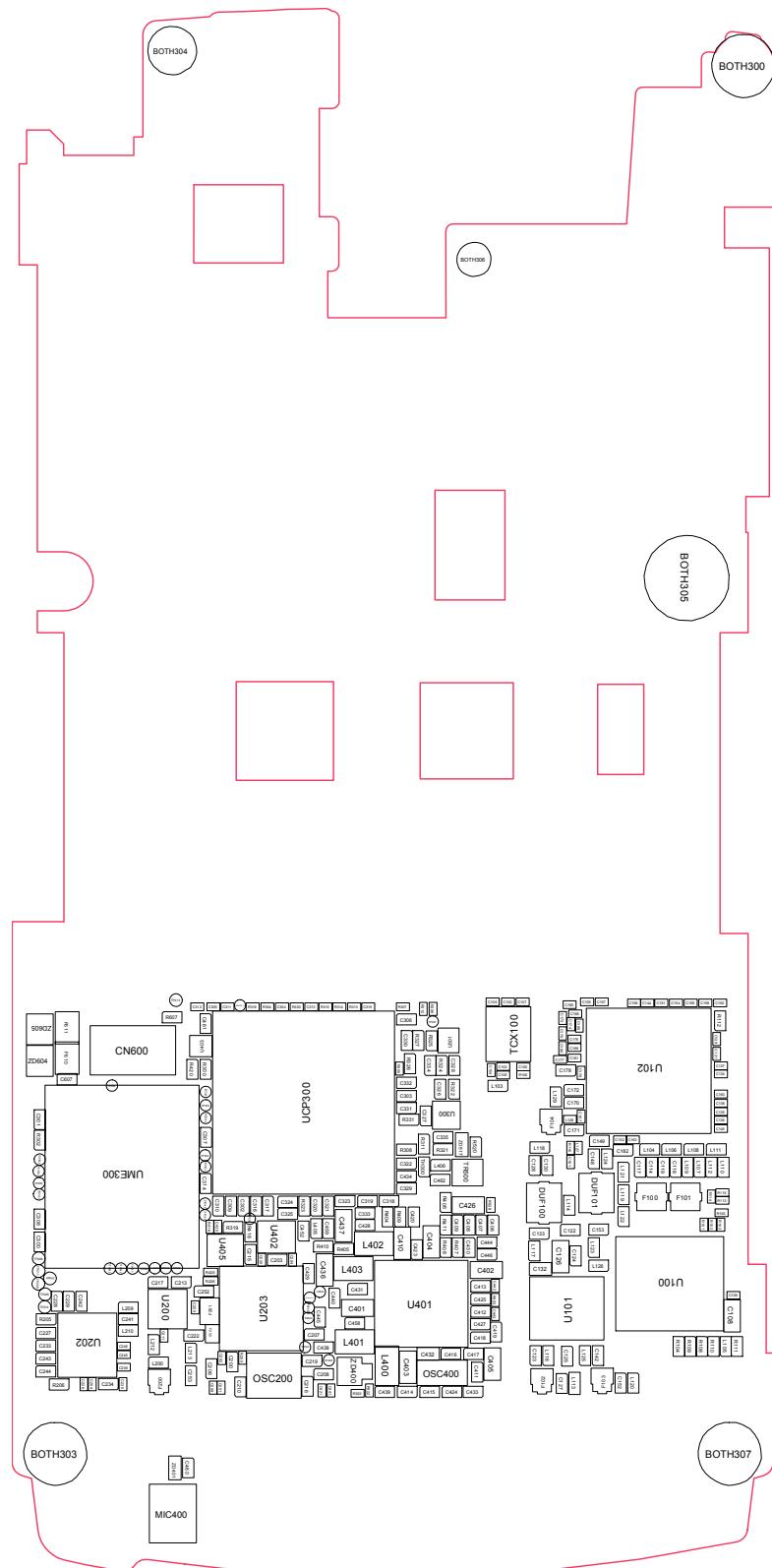


8-2. PCB Diagrams

8-2-1. Top

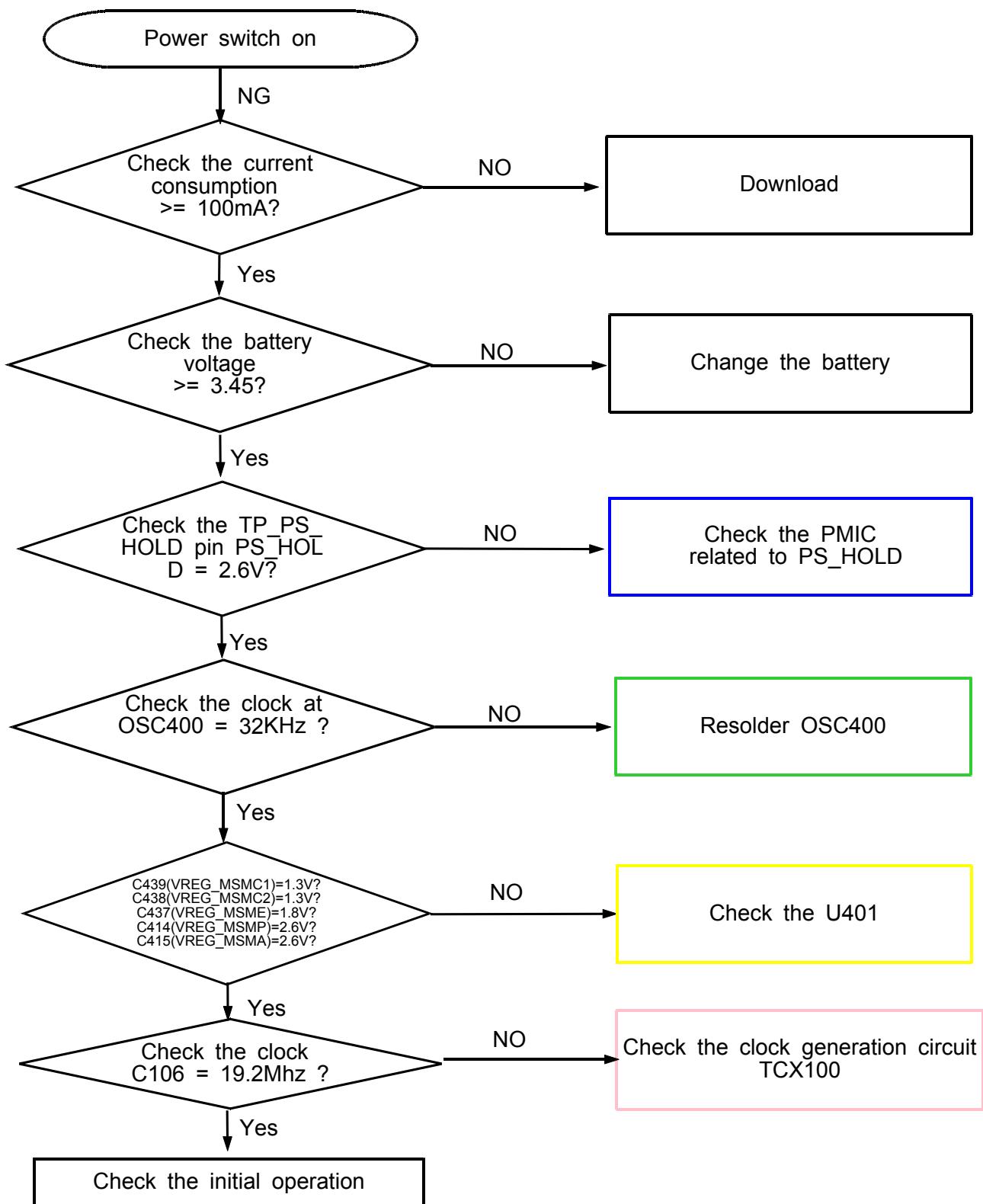


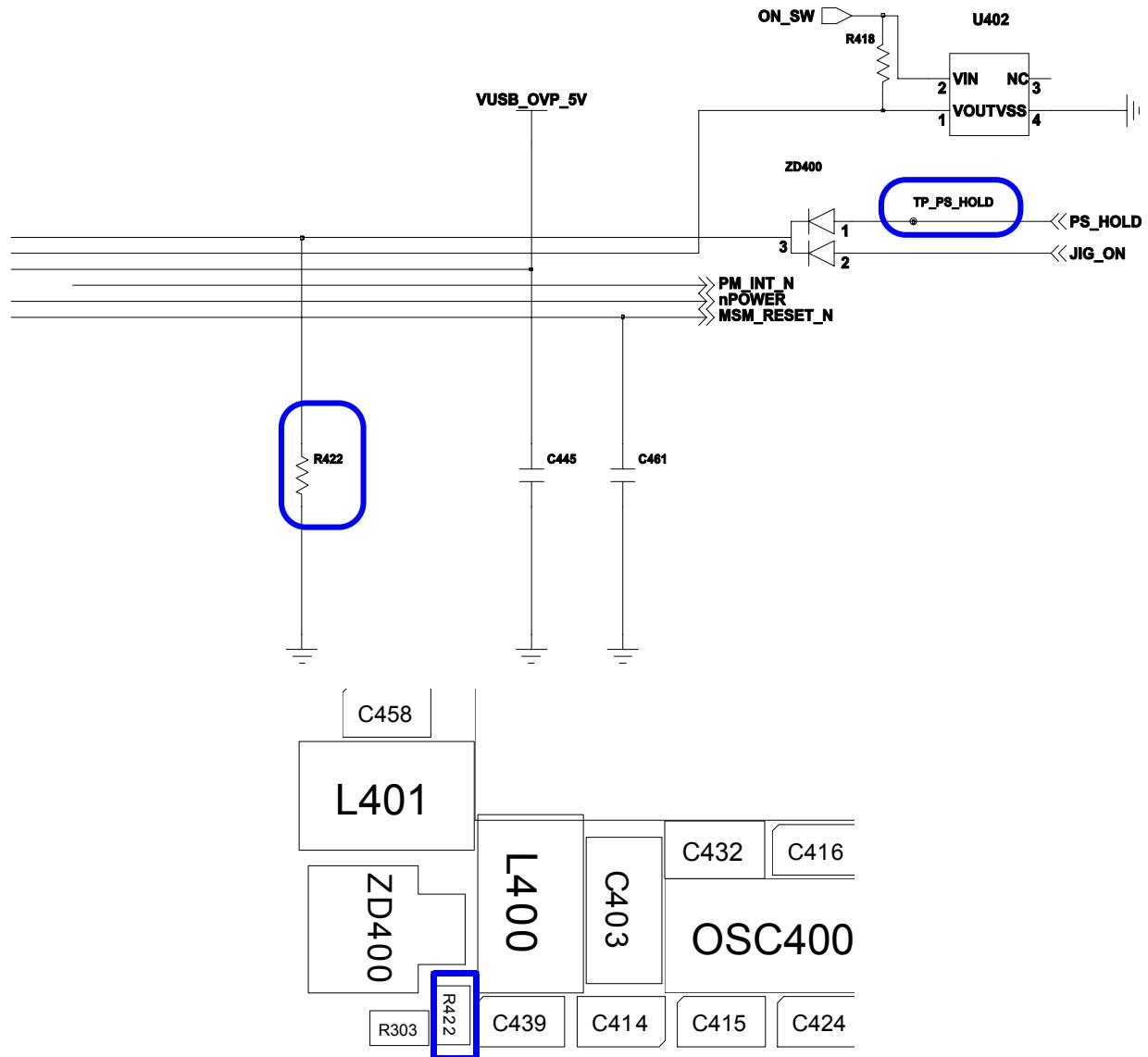
8-2-1. Bottom

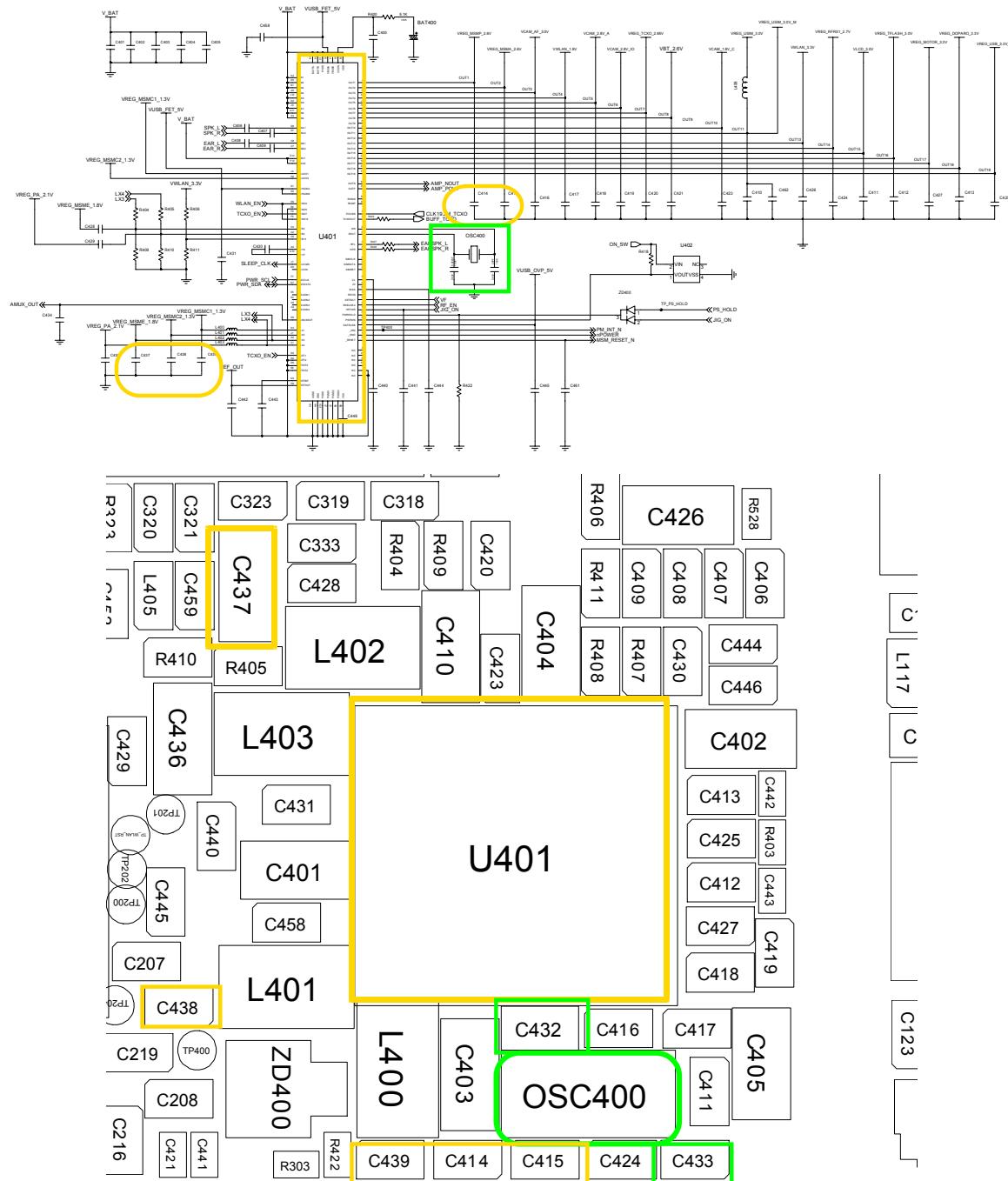


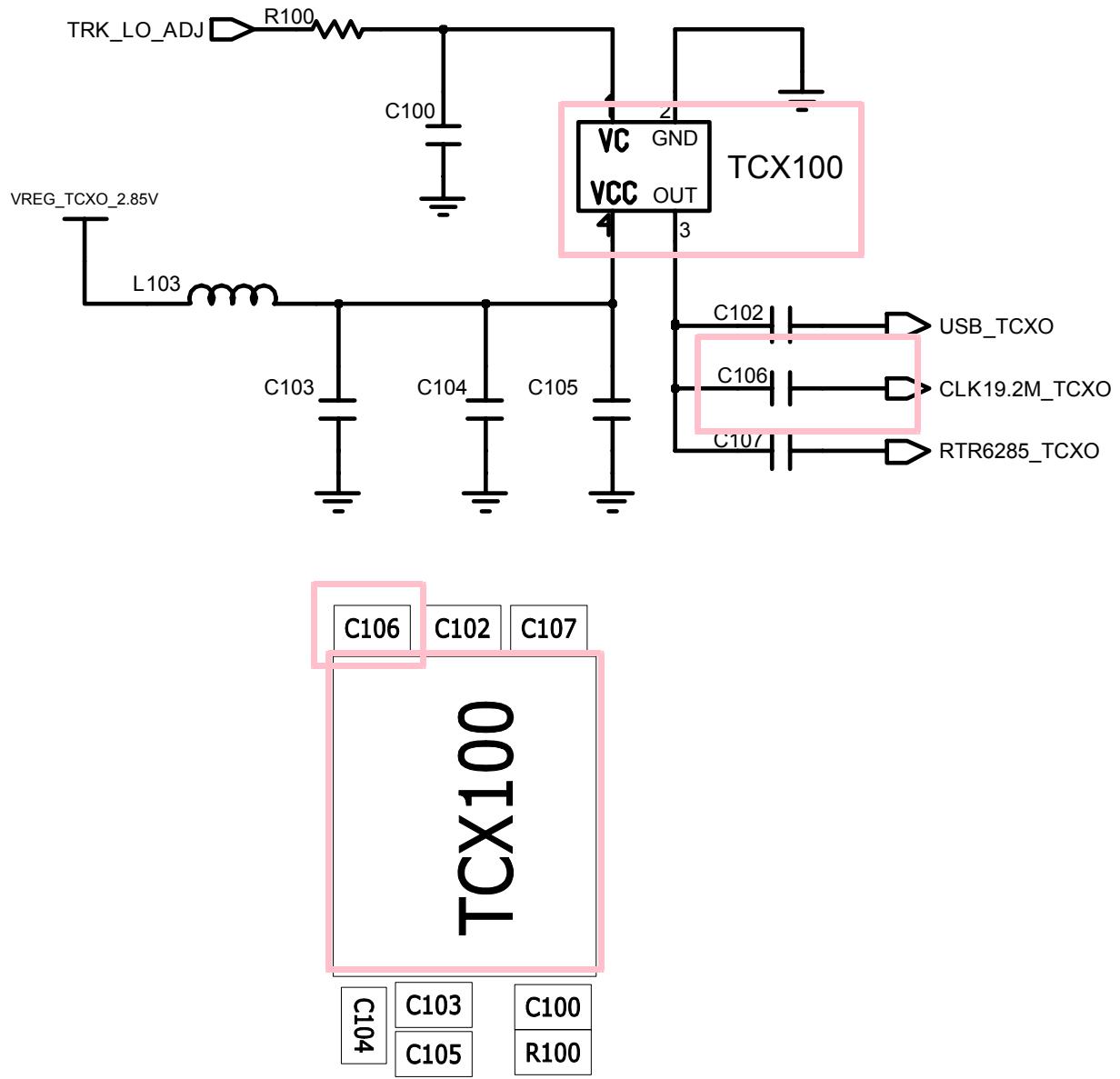
8-3. LOGIC

8-3-1. Power On

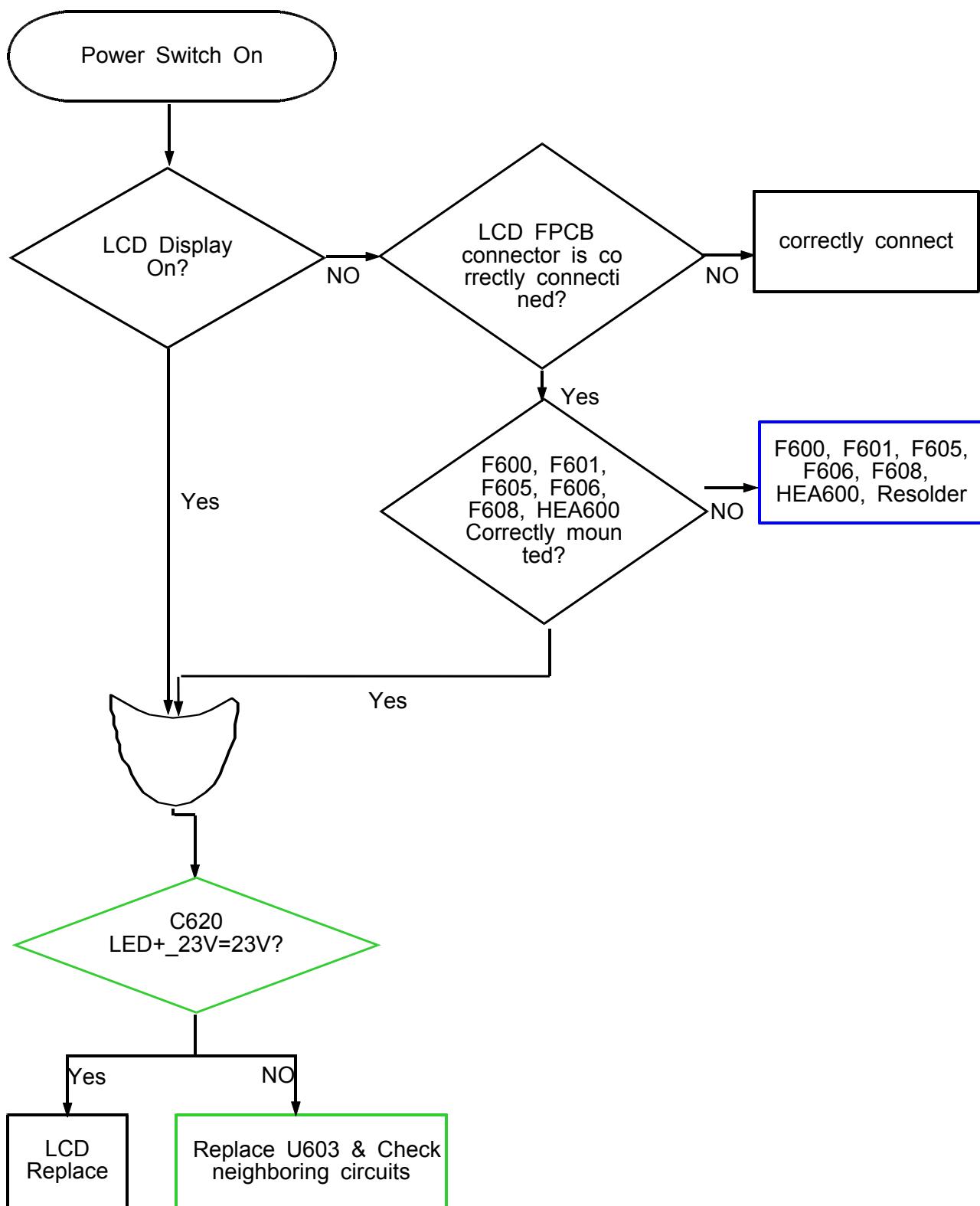


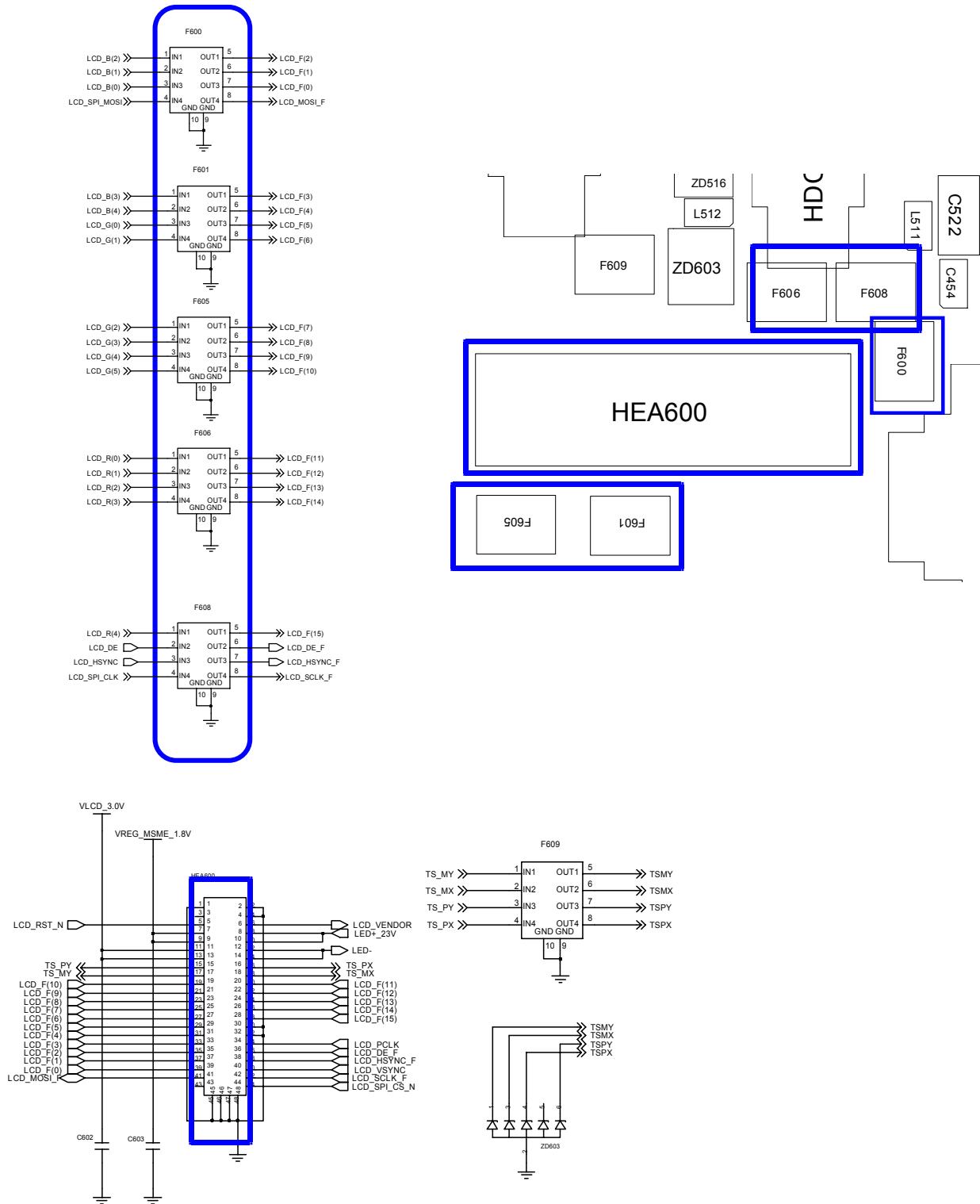


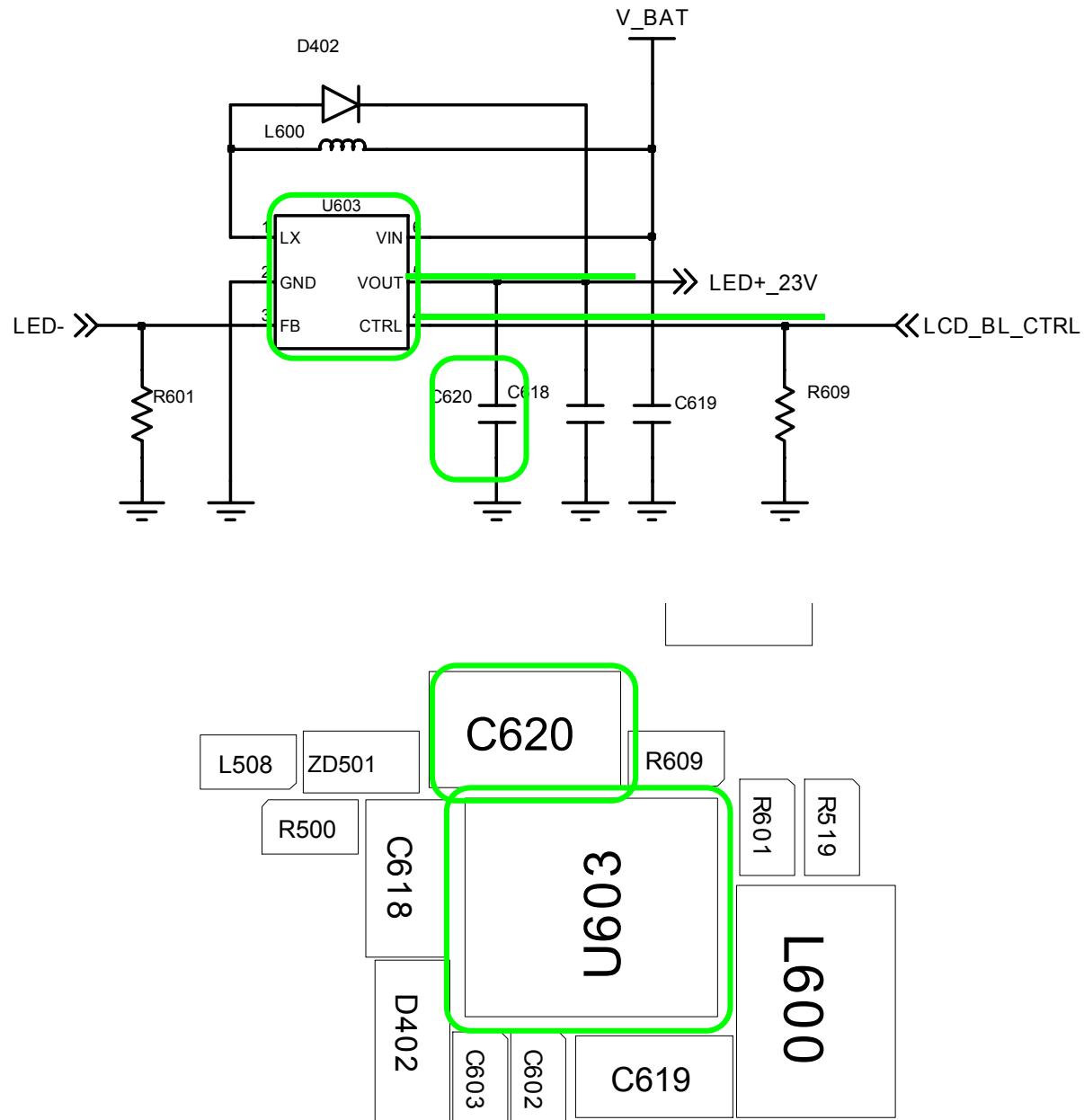




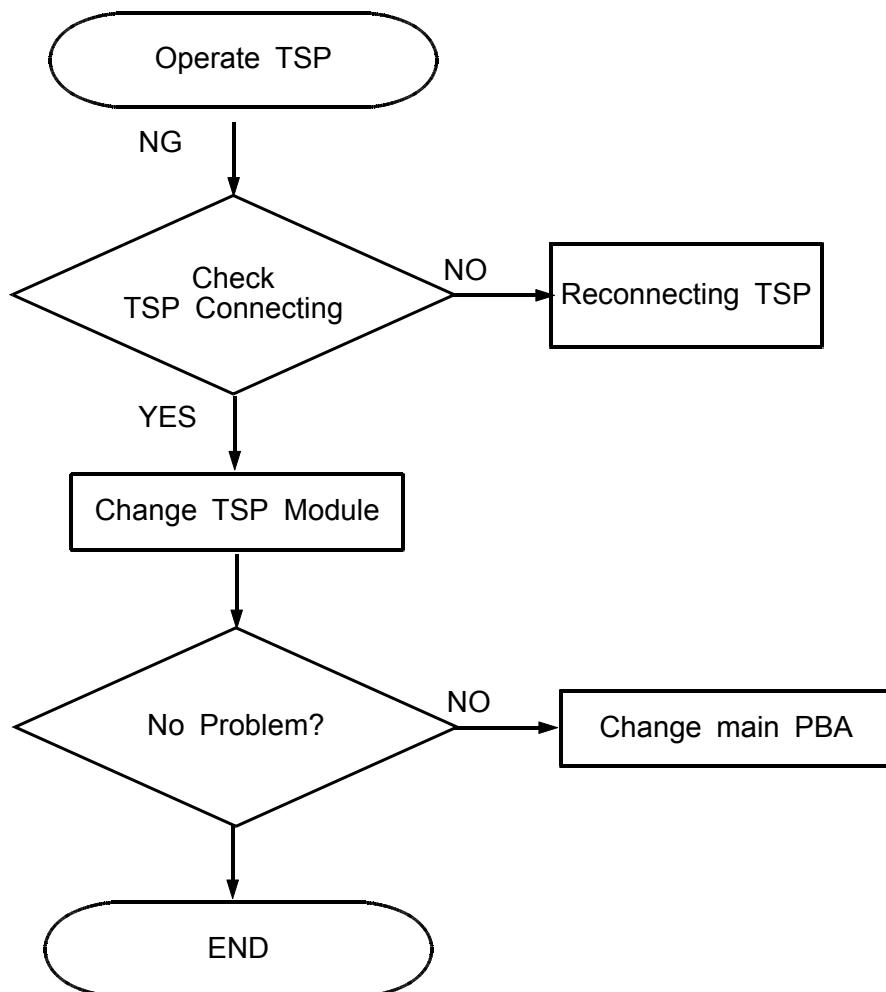
8-3-2. LCD Working



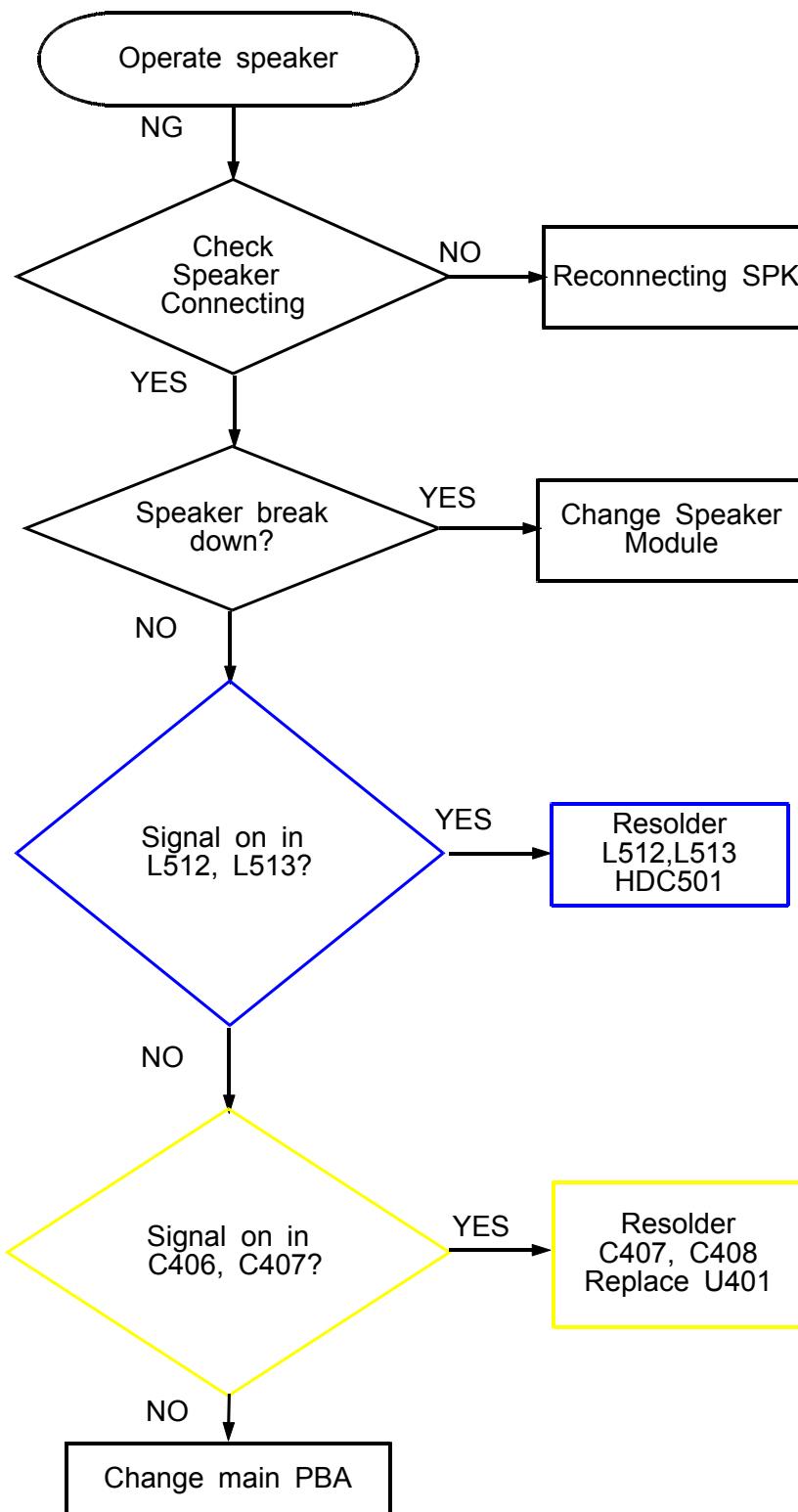


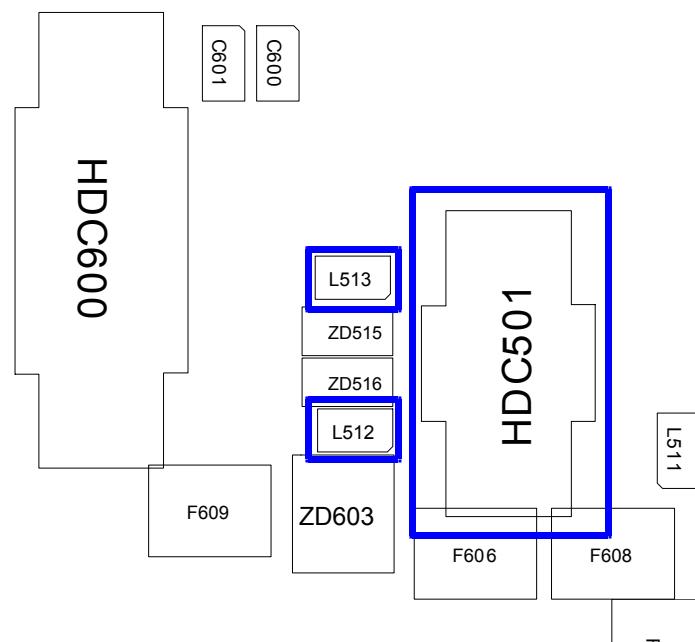
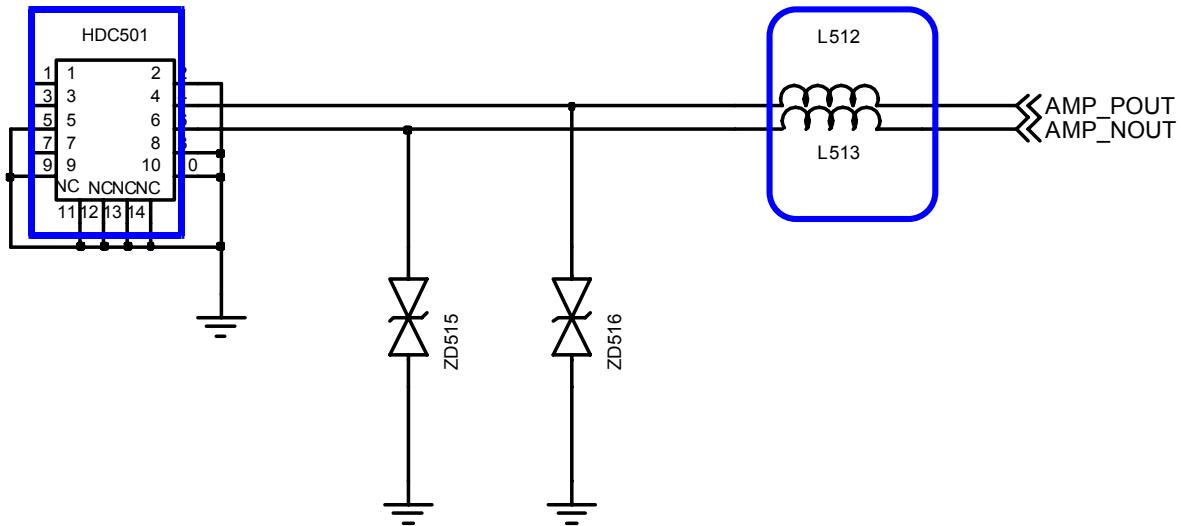


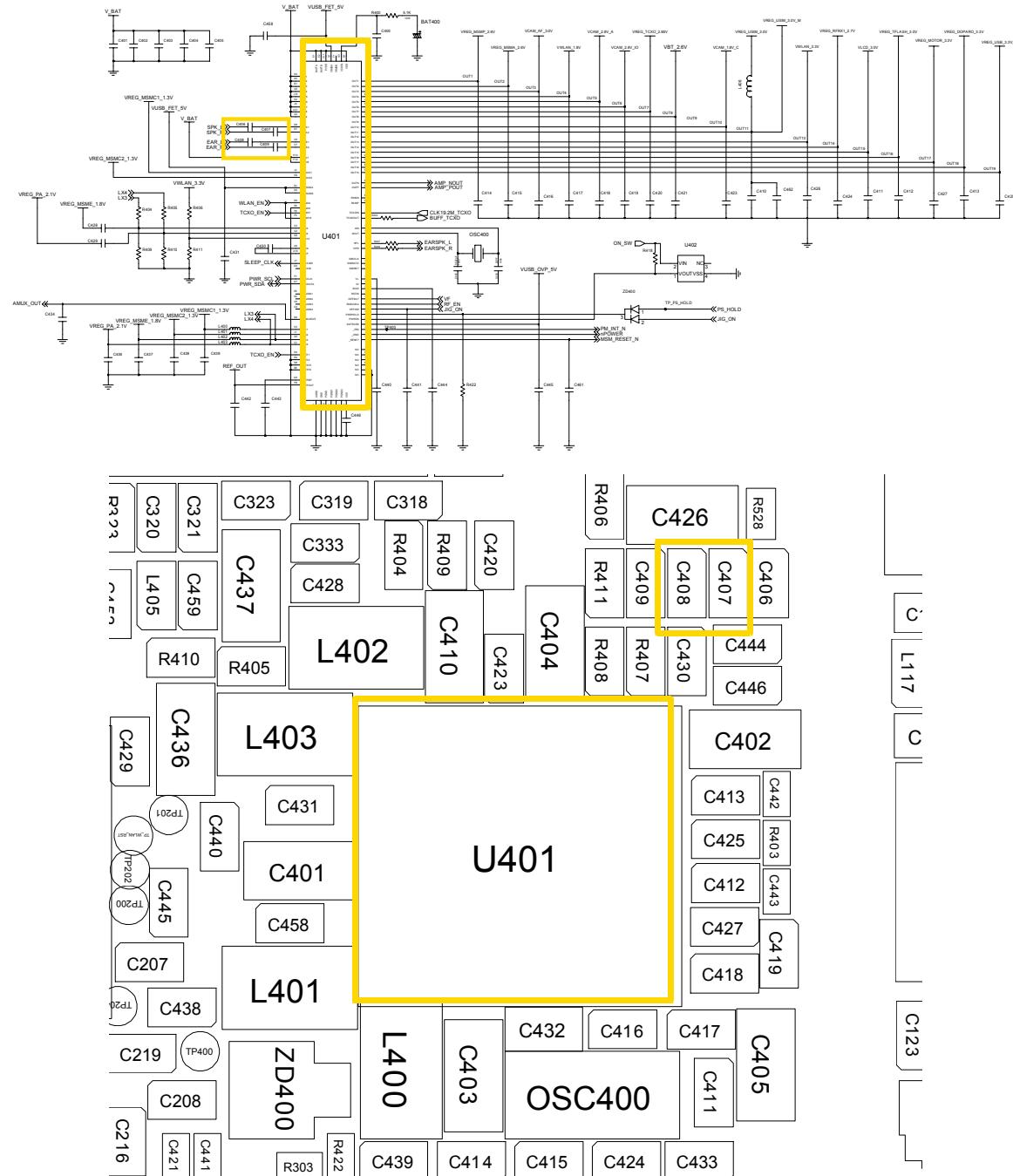
8-3-3. TSP



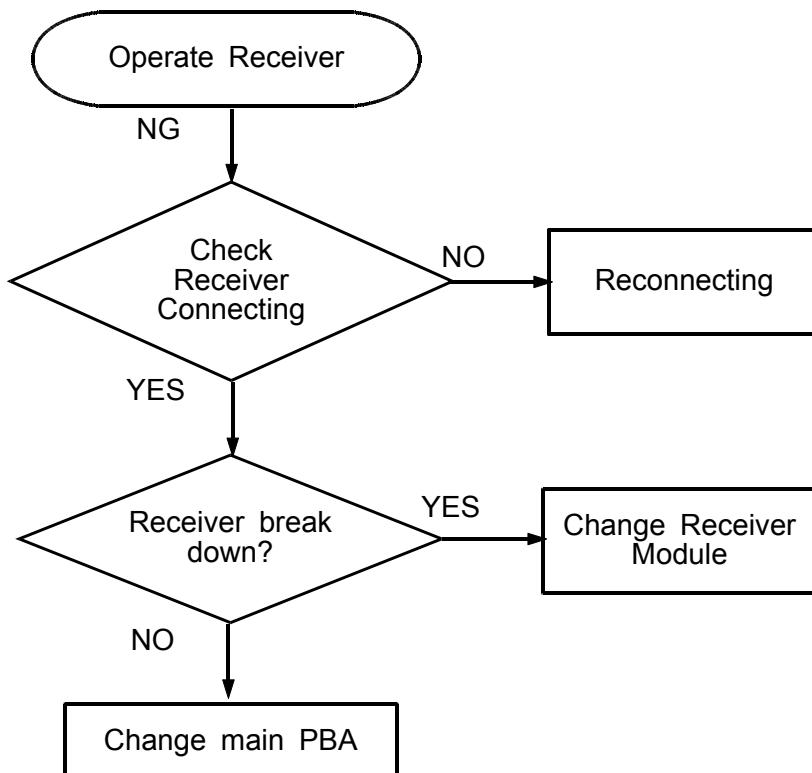
8-3-4. Audio Working

● Speaker Working

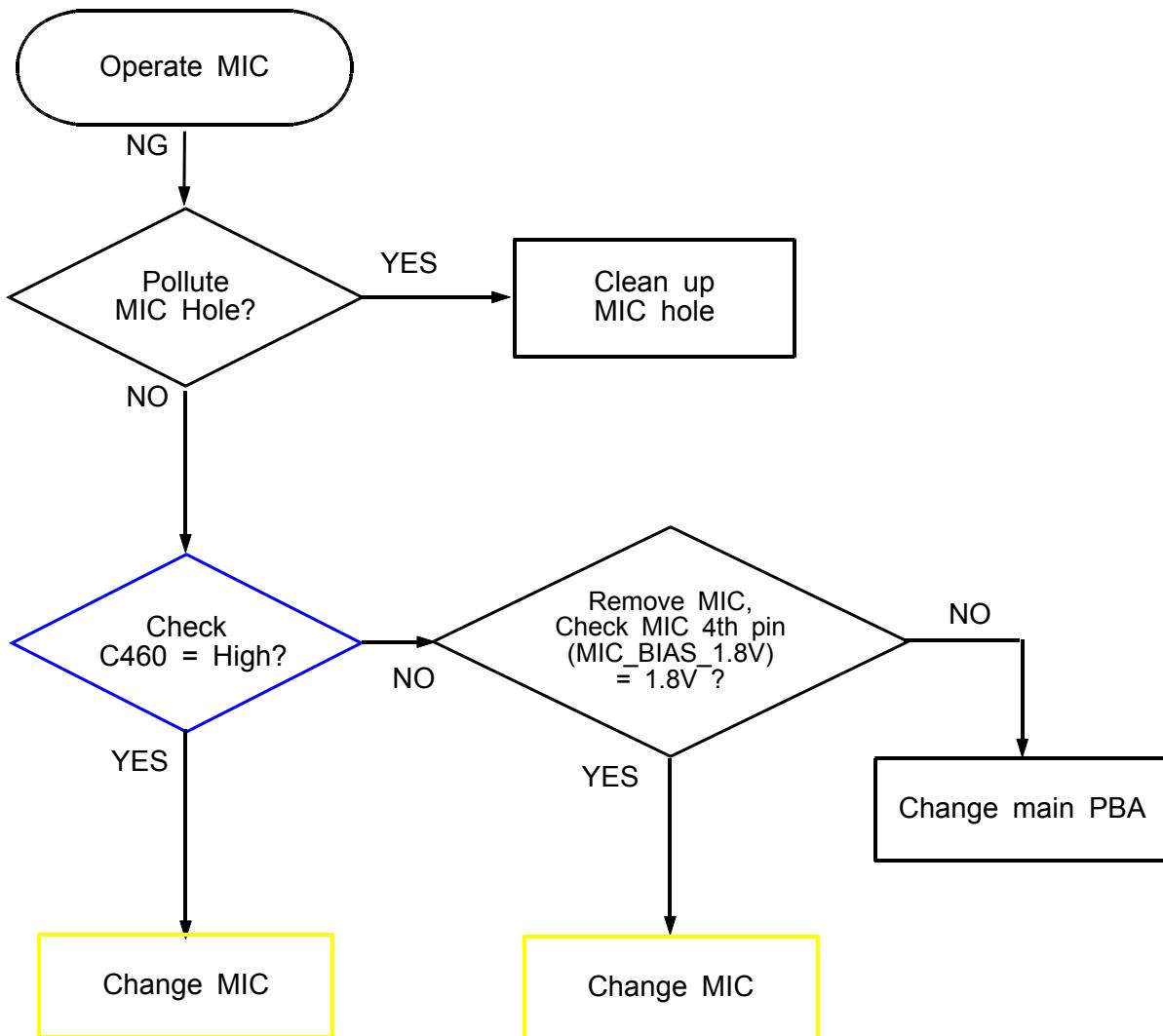


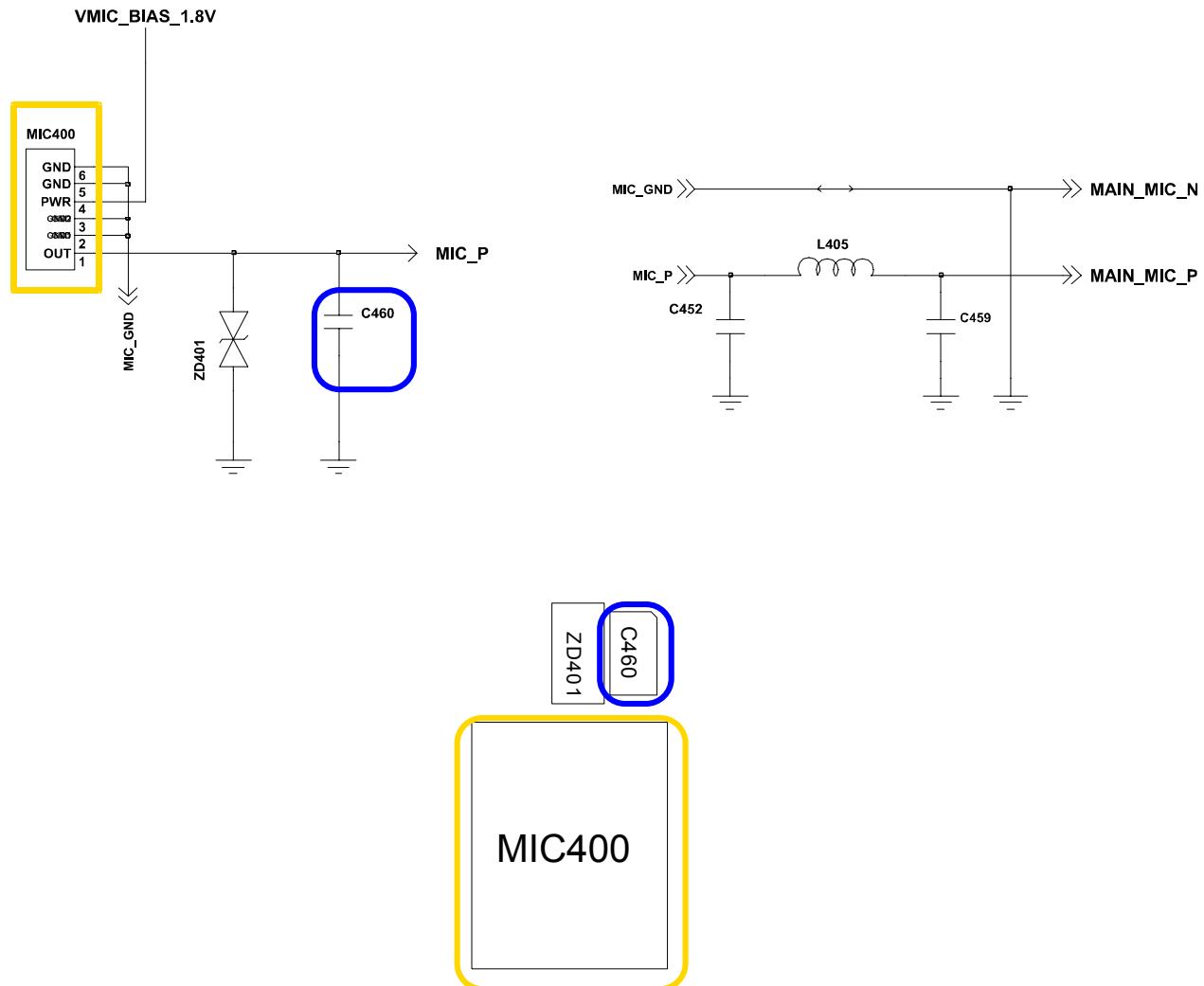


- Receiver Working

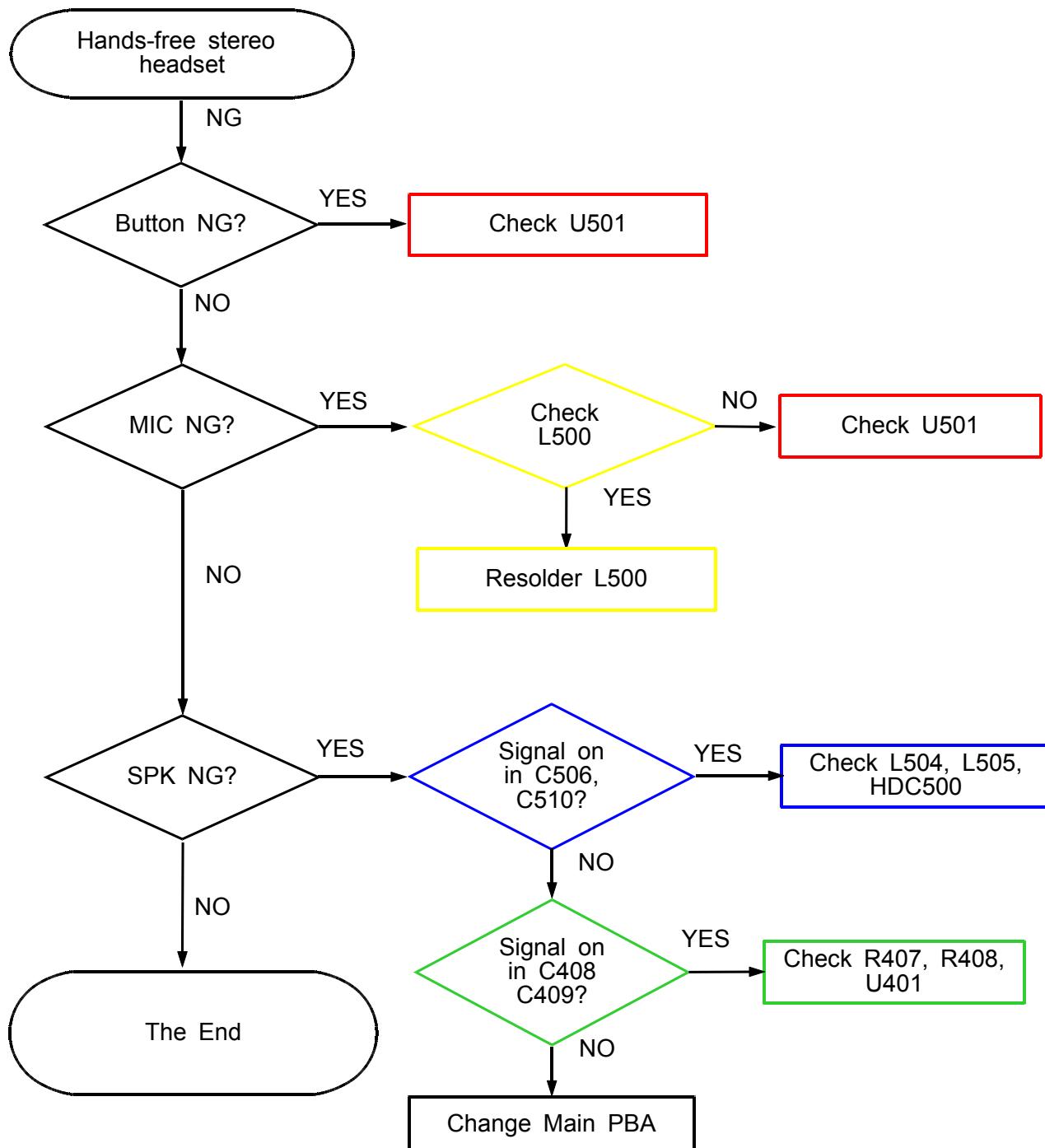


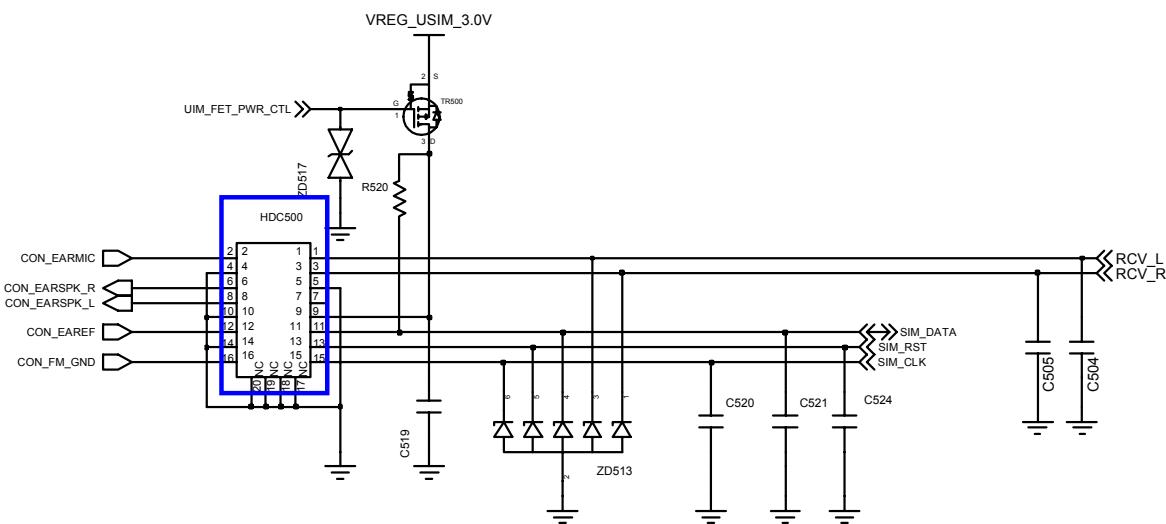
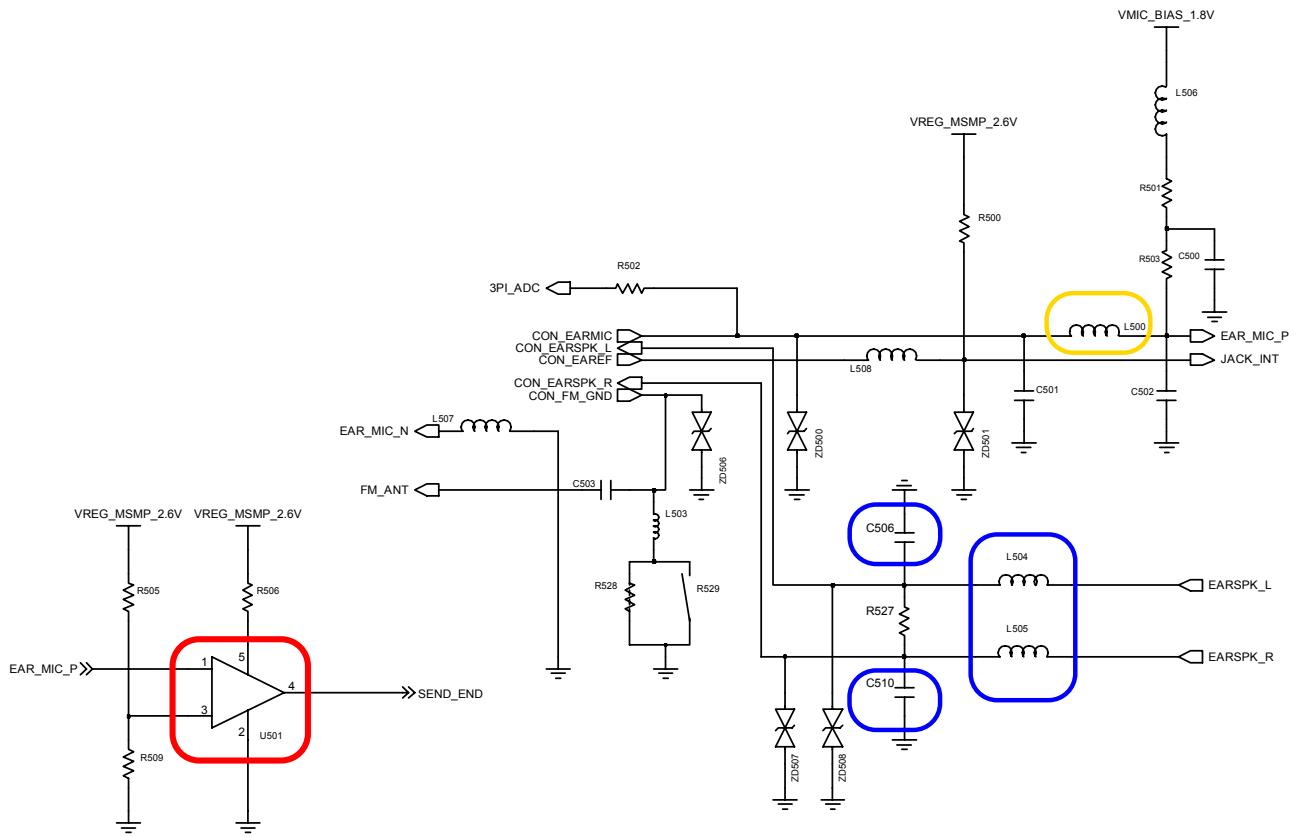
- Main MIC Working

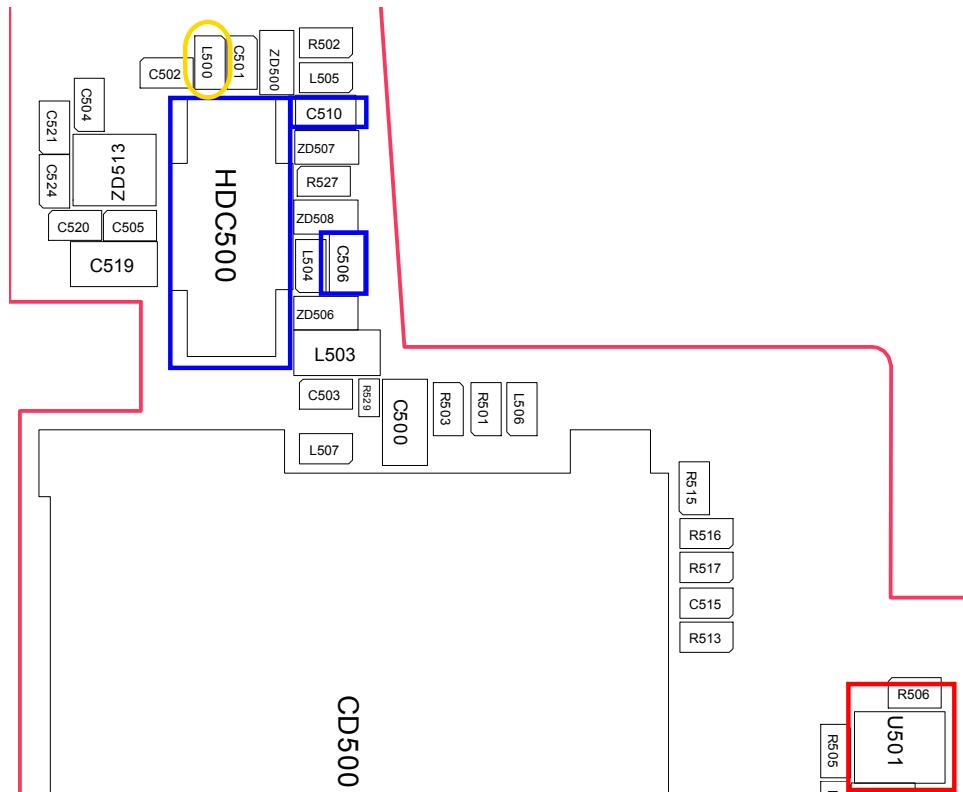


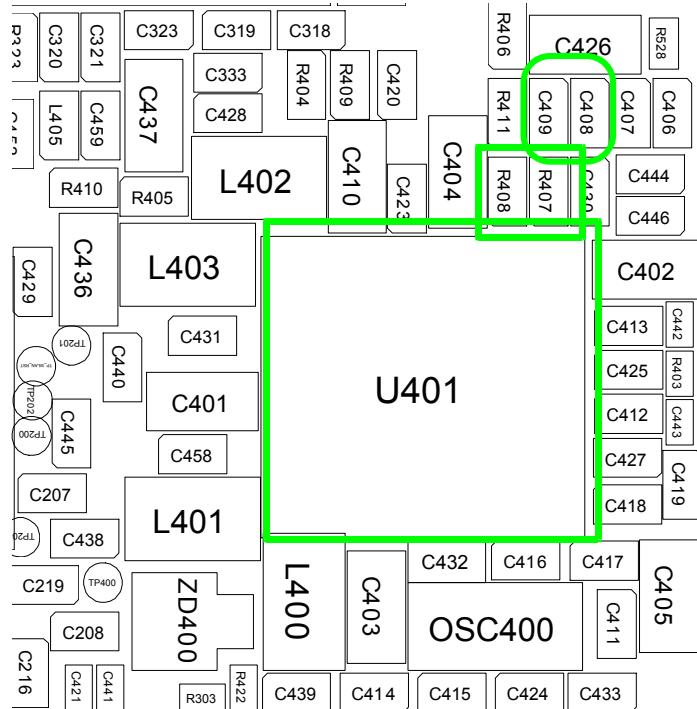
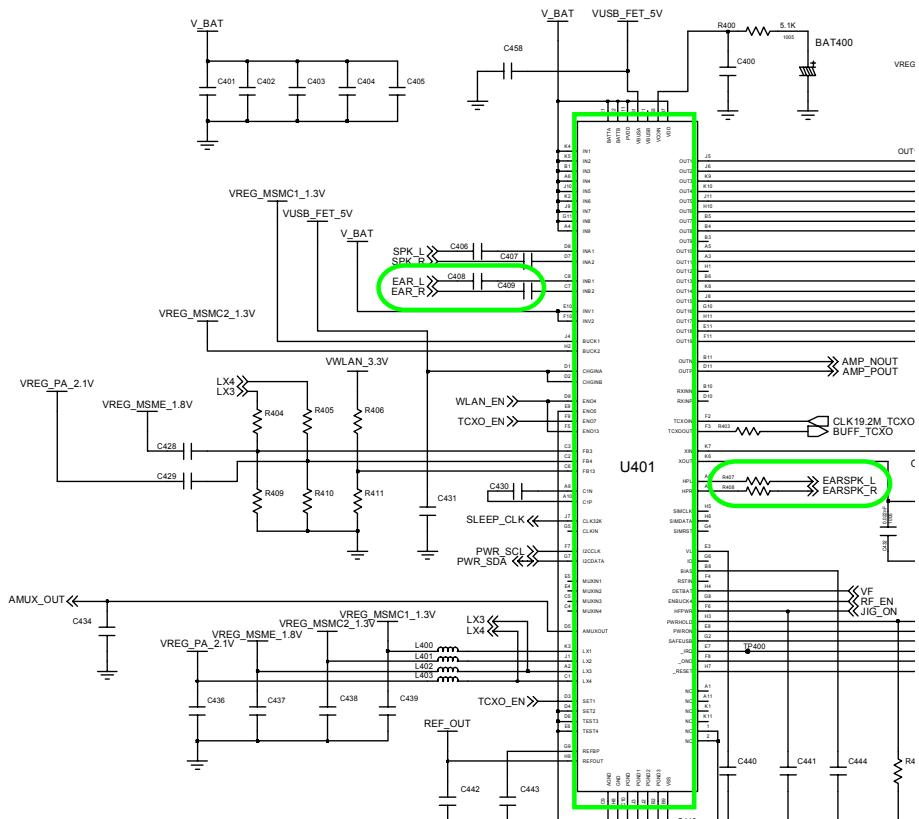


■ Stereo Headset Working



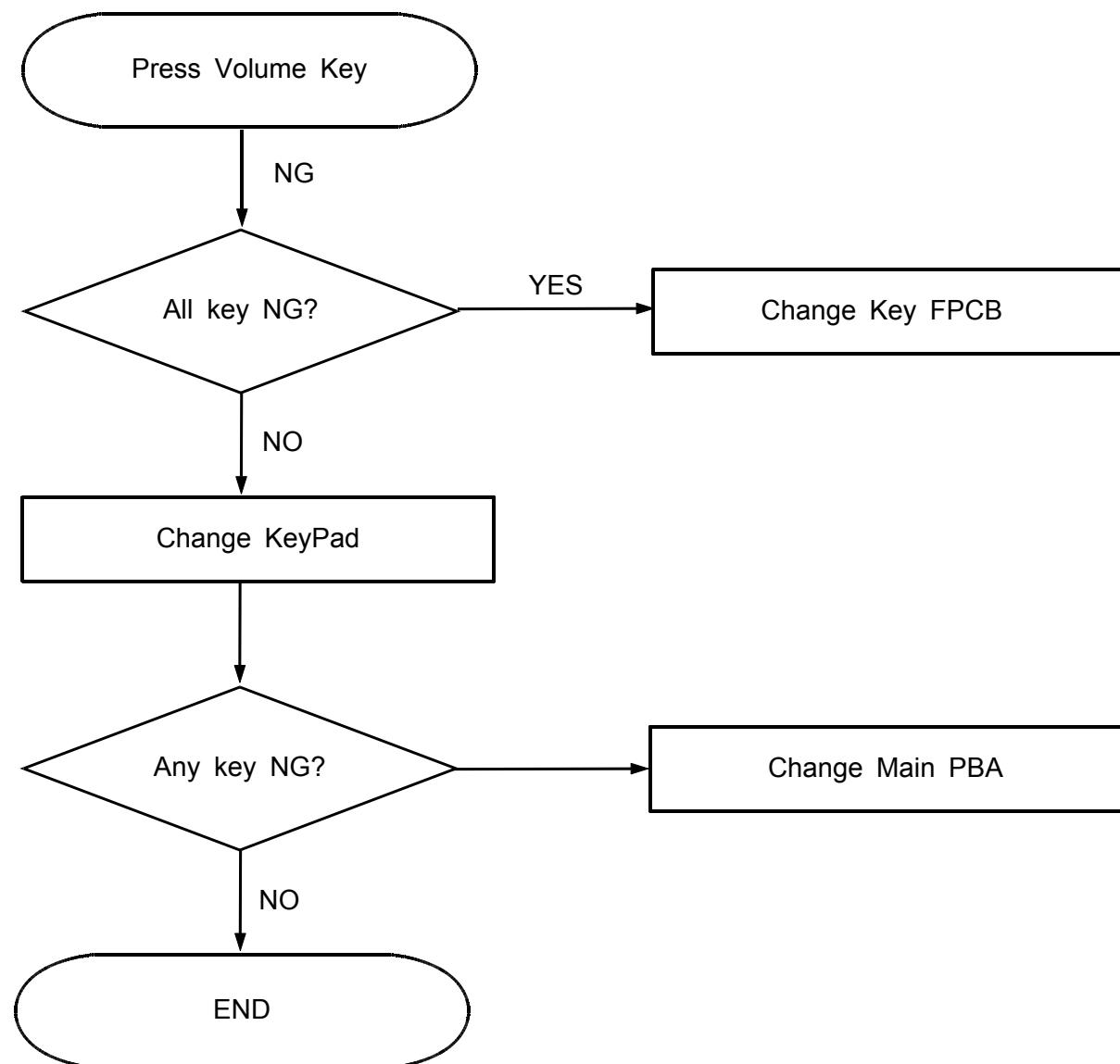




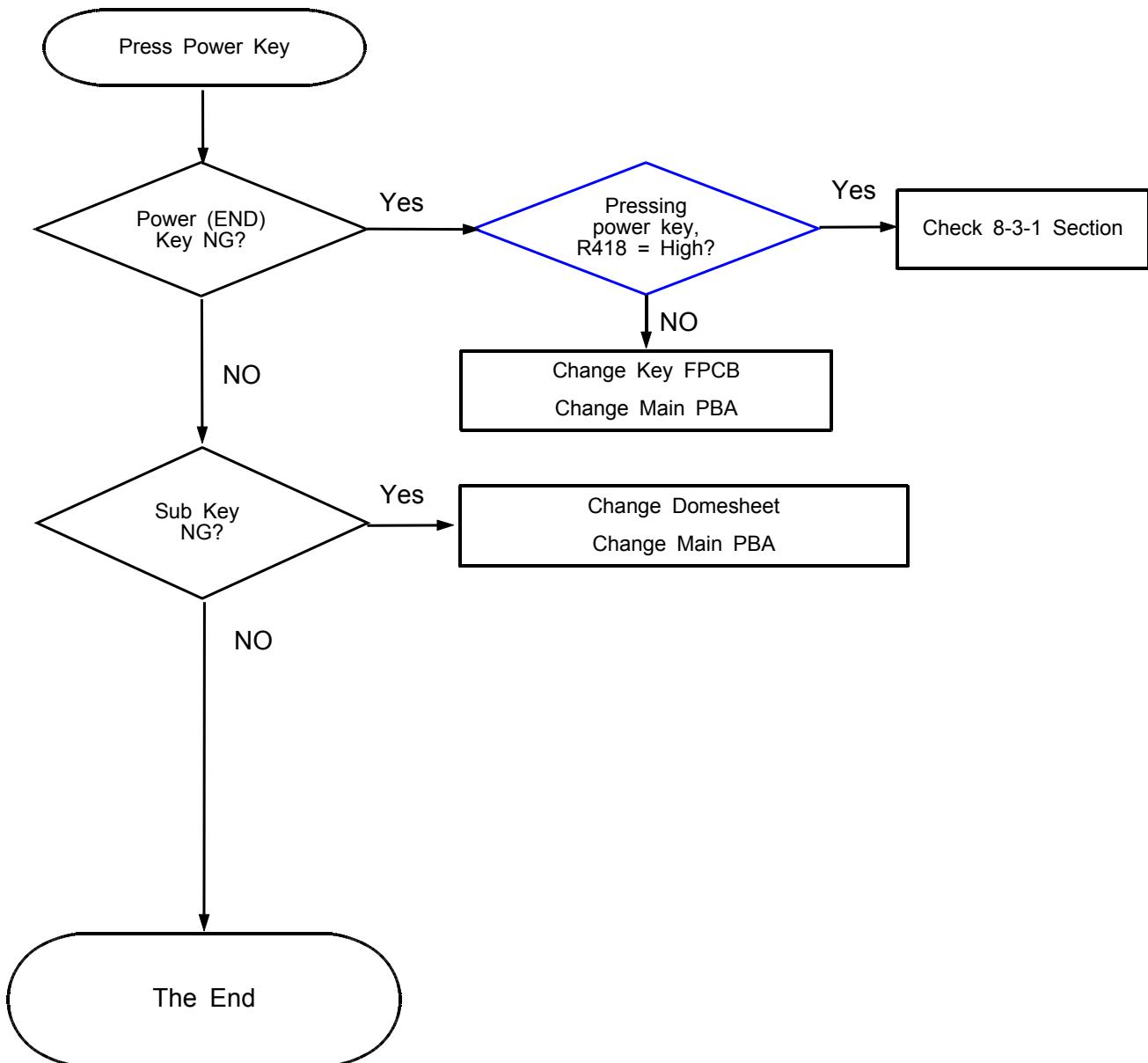


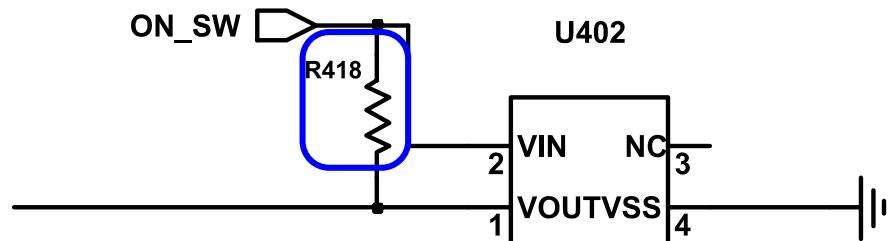
8-3-5. KEY Working

- Volume KEY

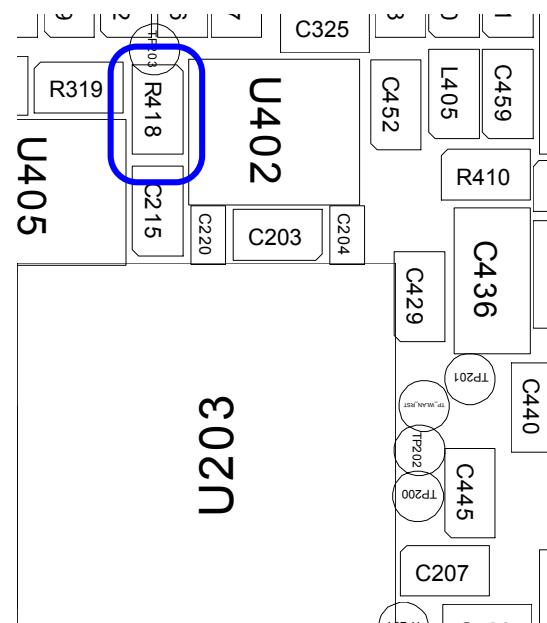


- Main Key



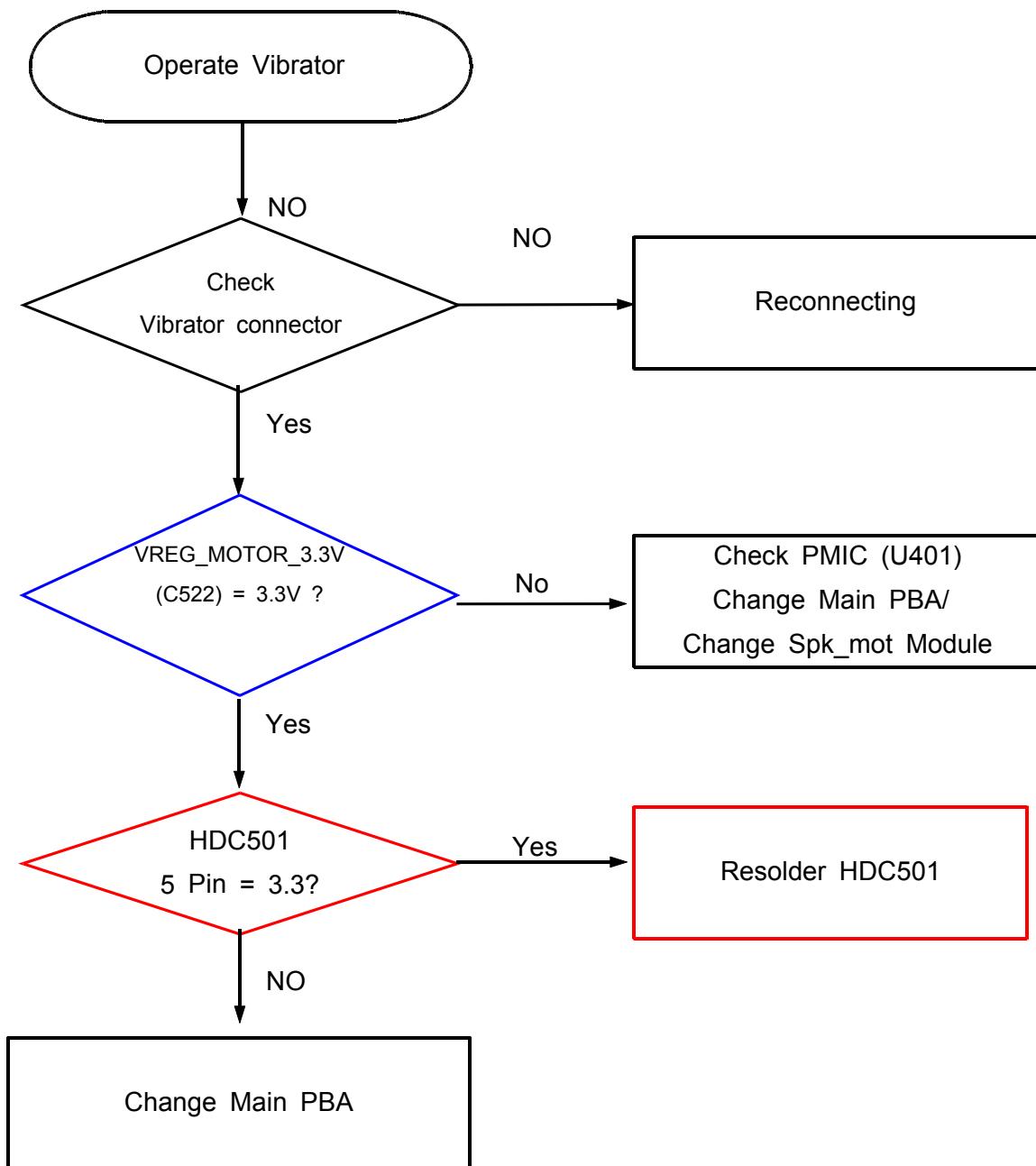


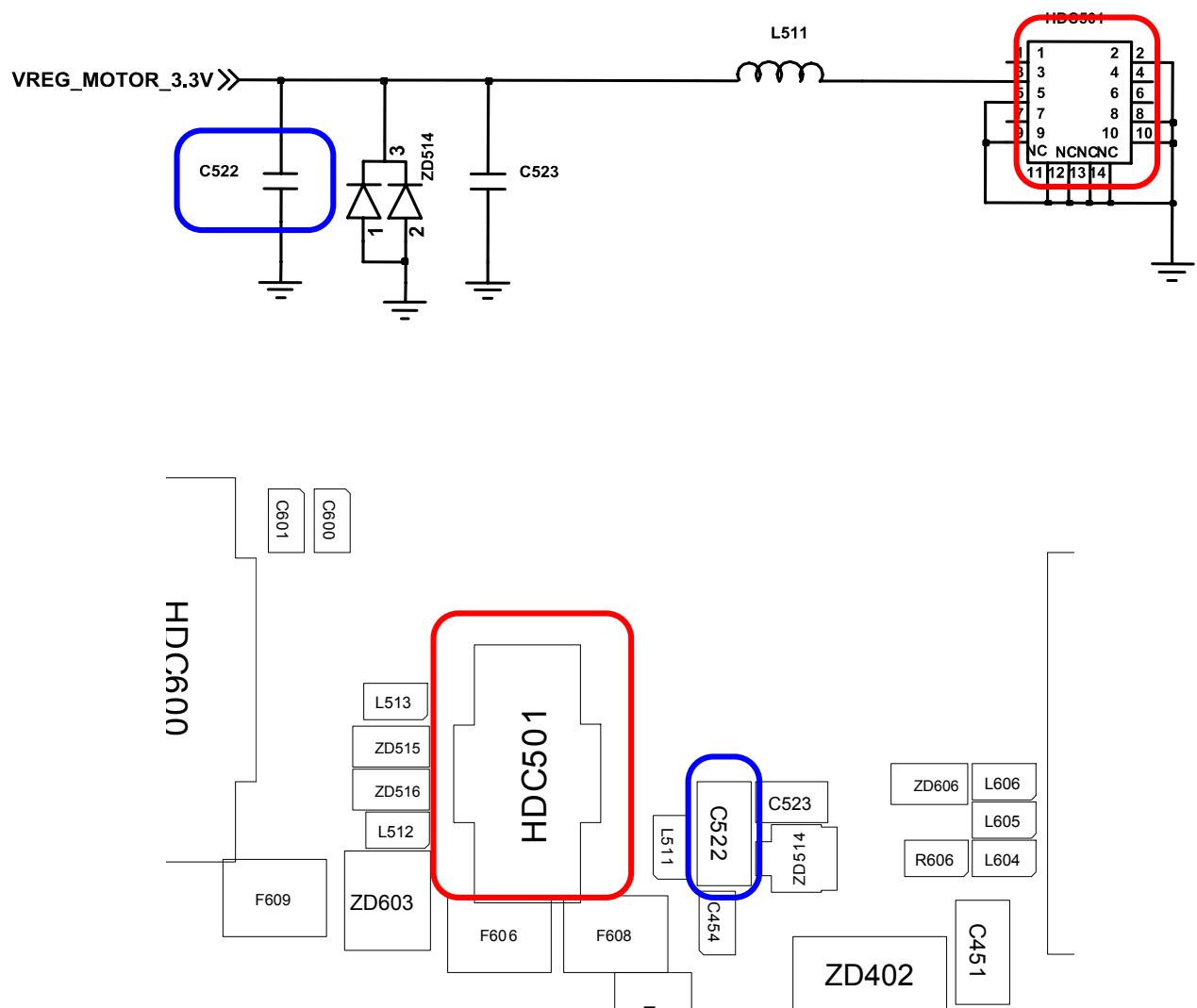
ZD400



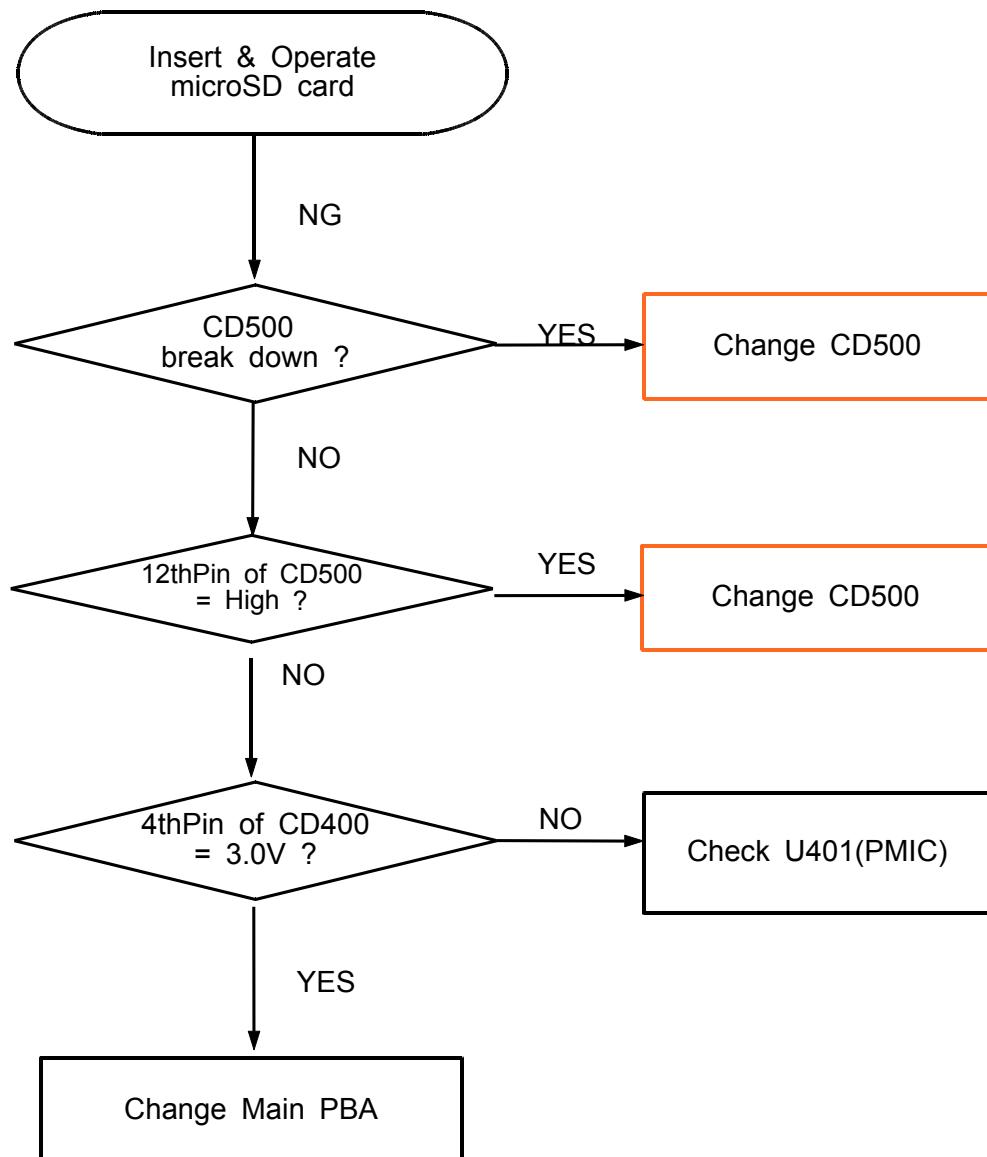
U203

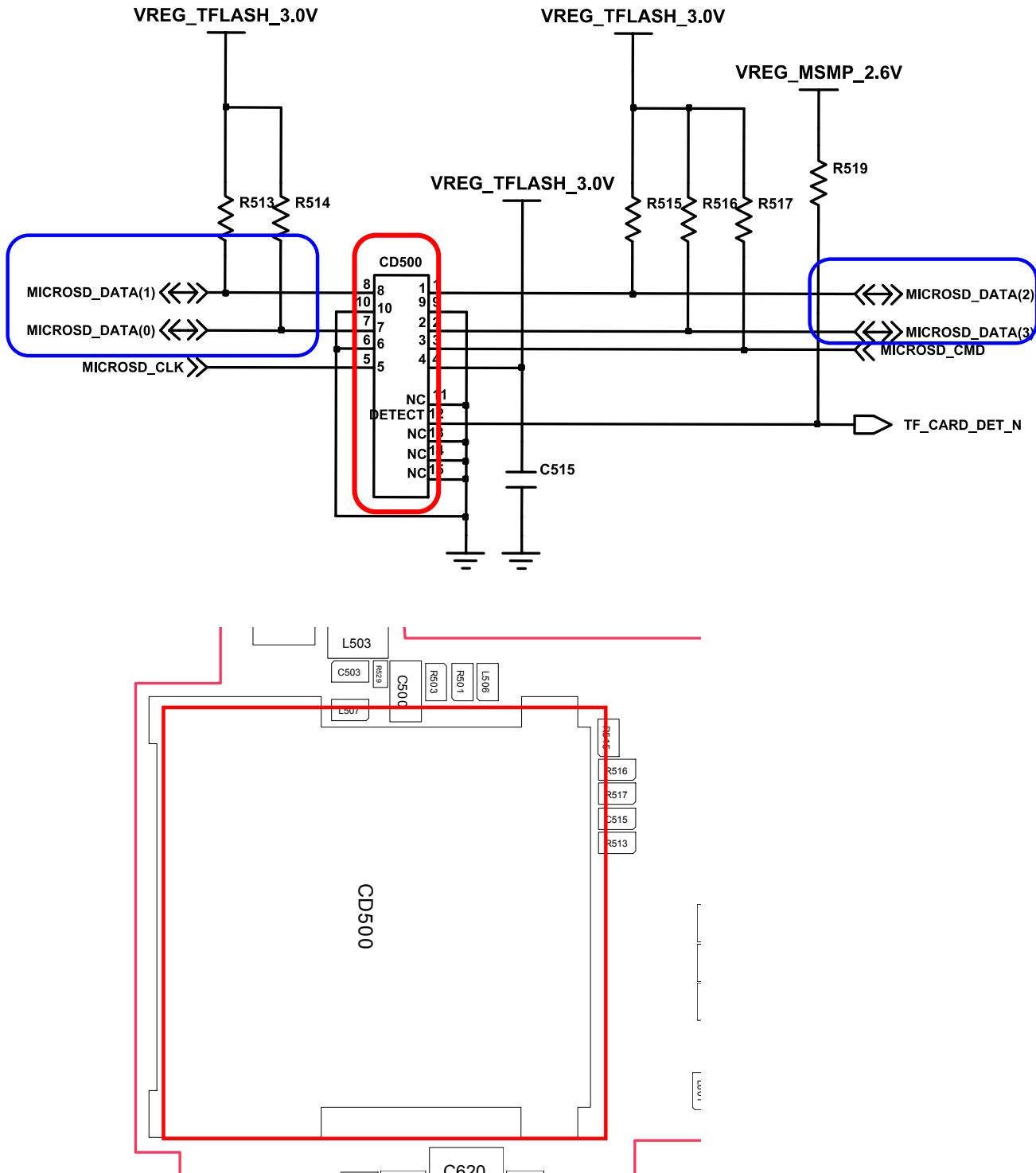
8-3-6. Vibrator Working



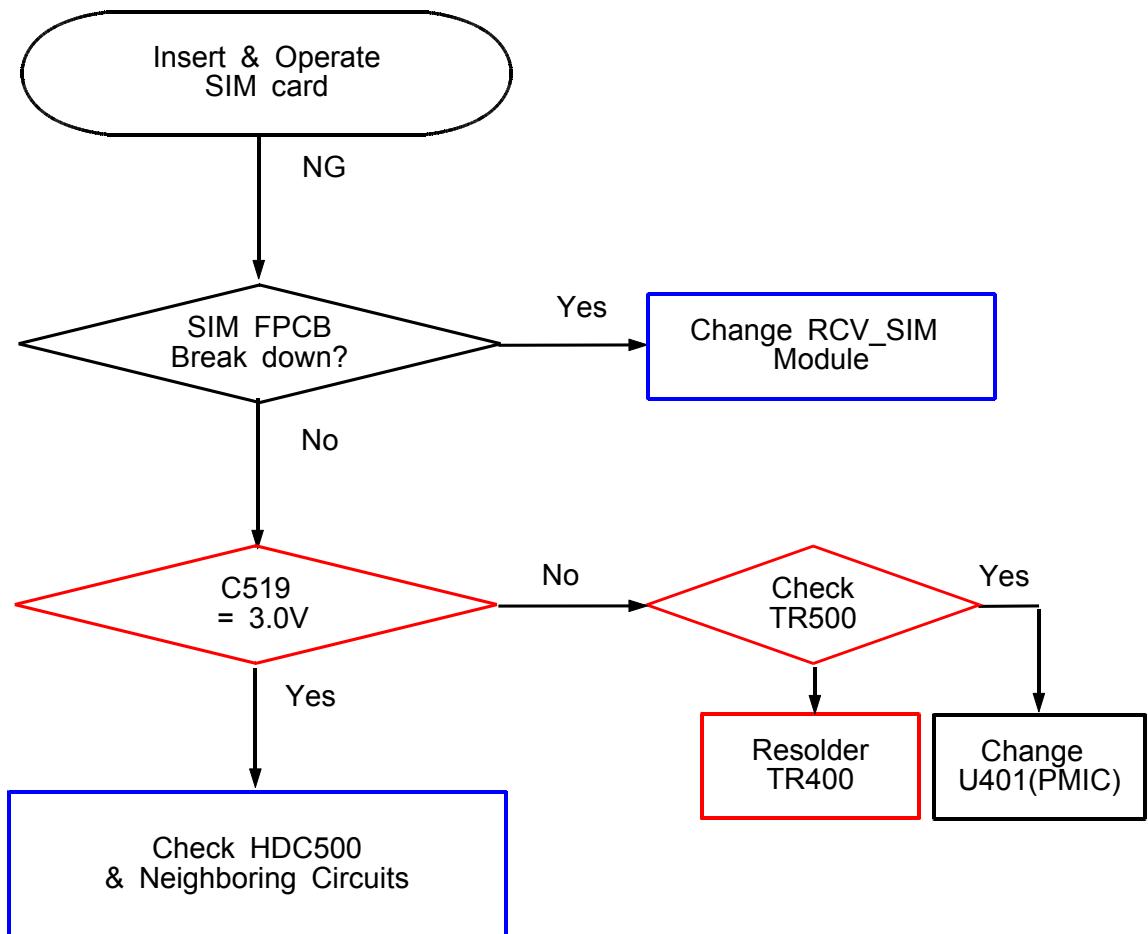


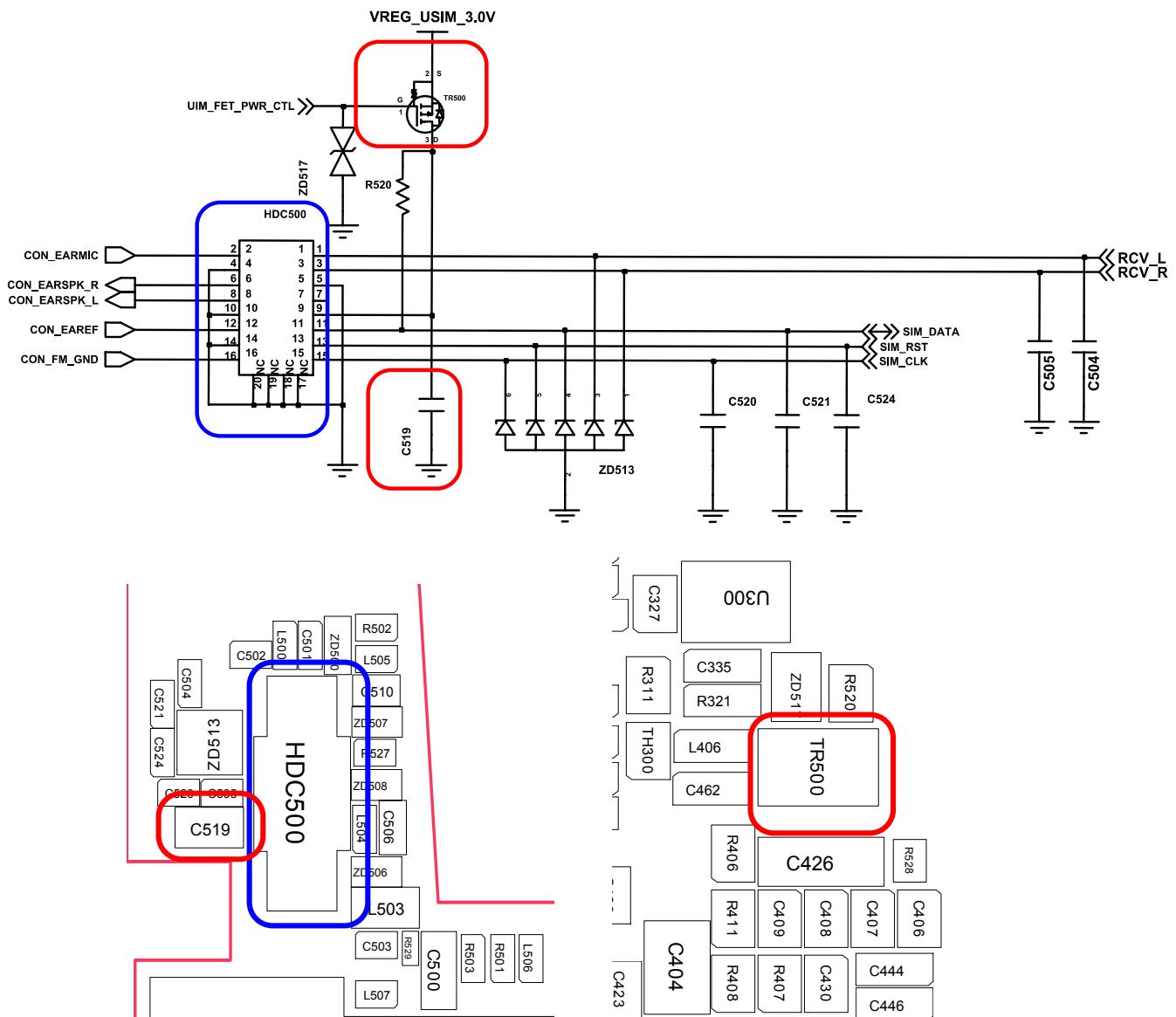
8-3-7. T-Flash Card Working

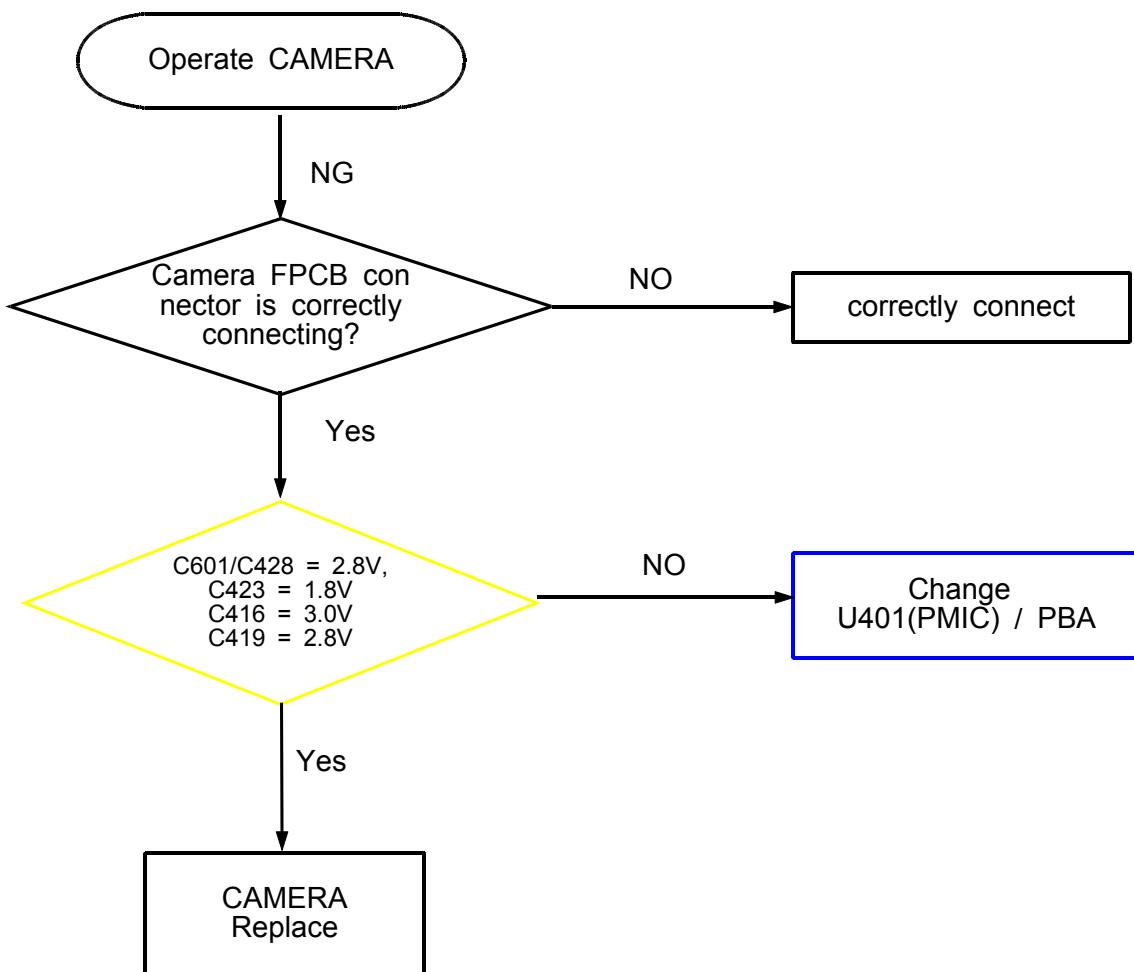


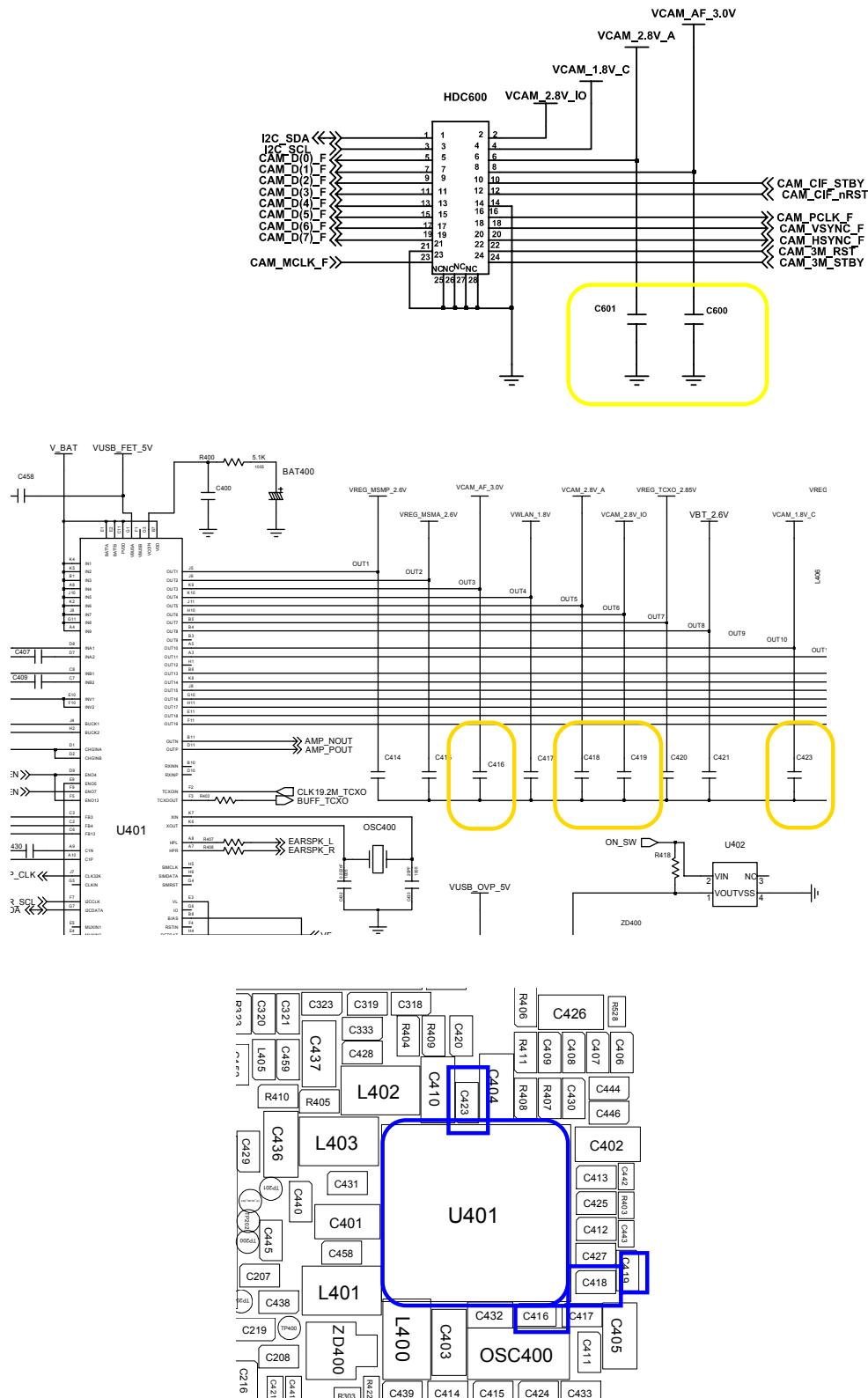


8-3-8. SIM Card Working





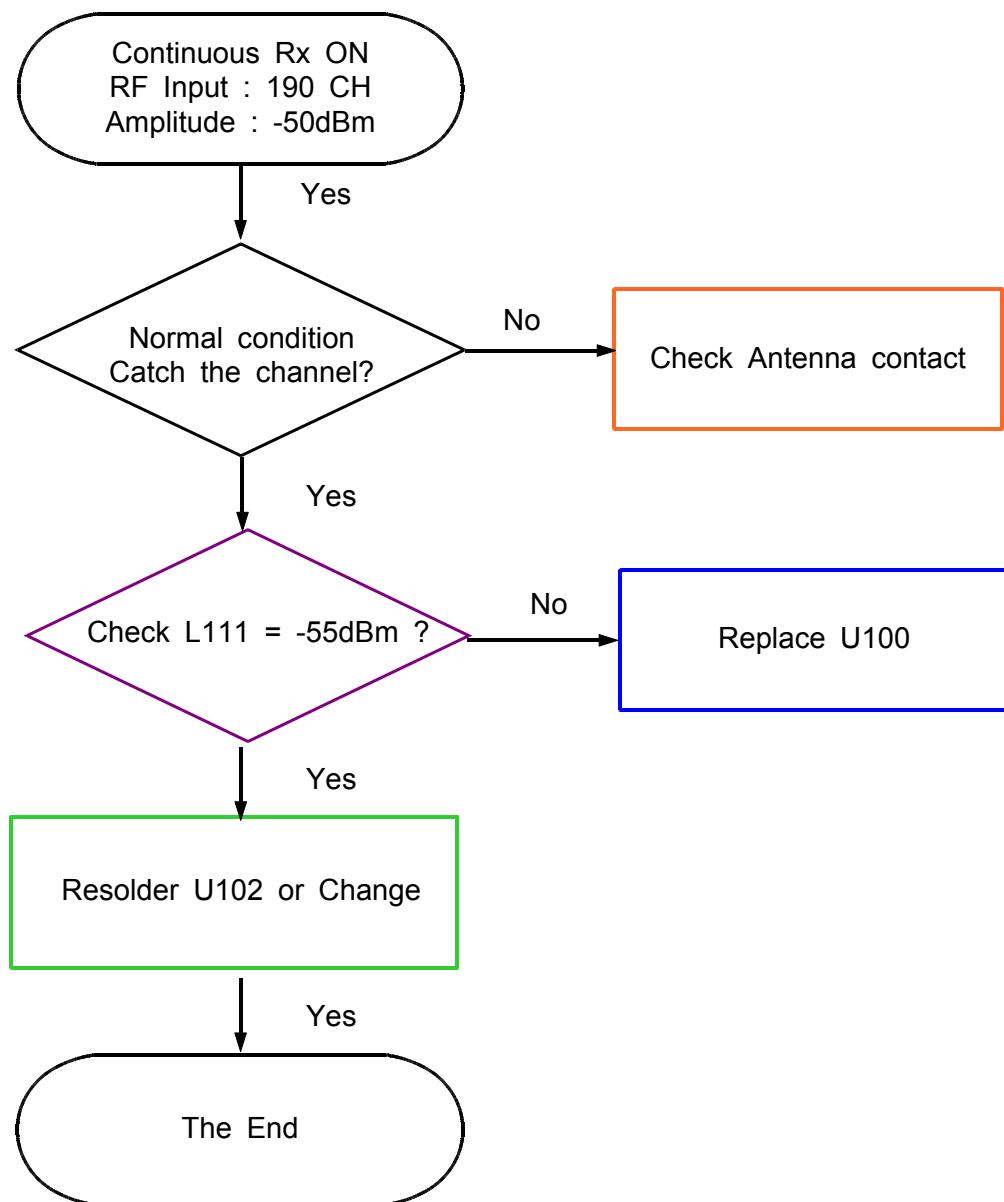
8-3-9 CAMERA Working



8-4-1. GSM850 RX

**If you check the tx chain,

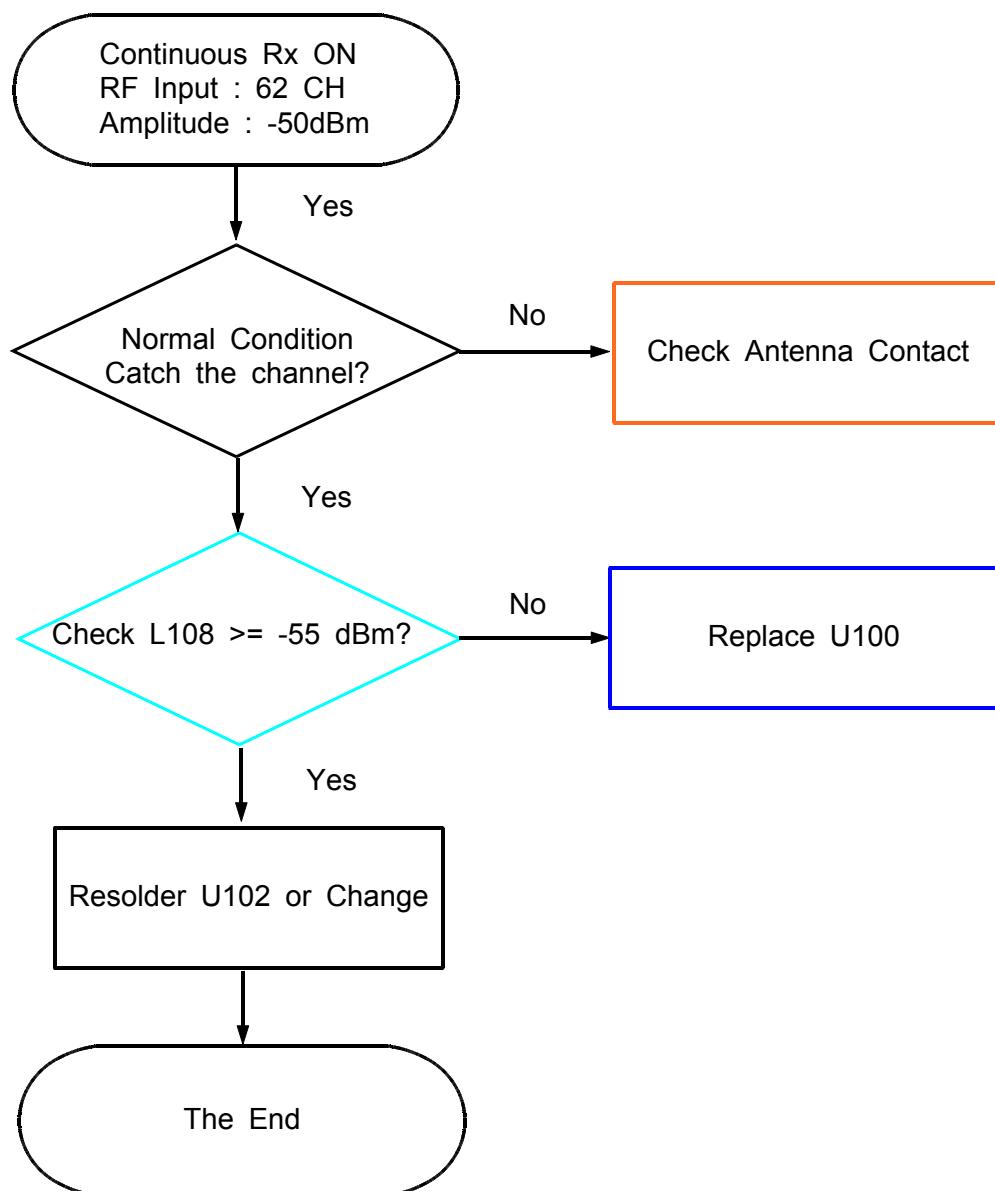
Check the not only RF Device but also resistor, inductor and capacitor.



8-4-2. GSM900 RX

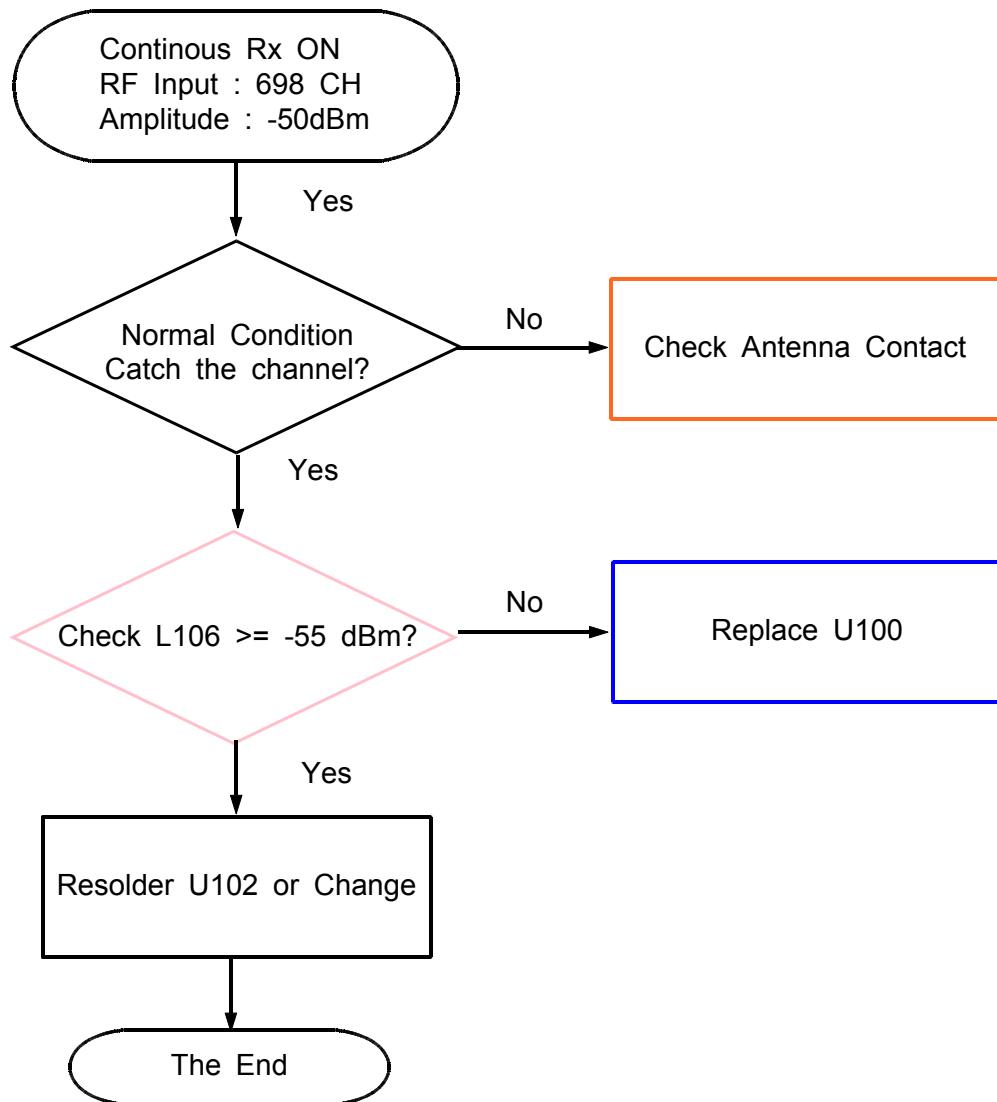
**If you check the tx chain,

Check the not only RF Device but also resistor, inductor and capacitor.



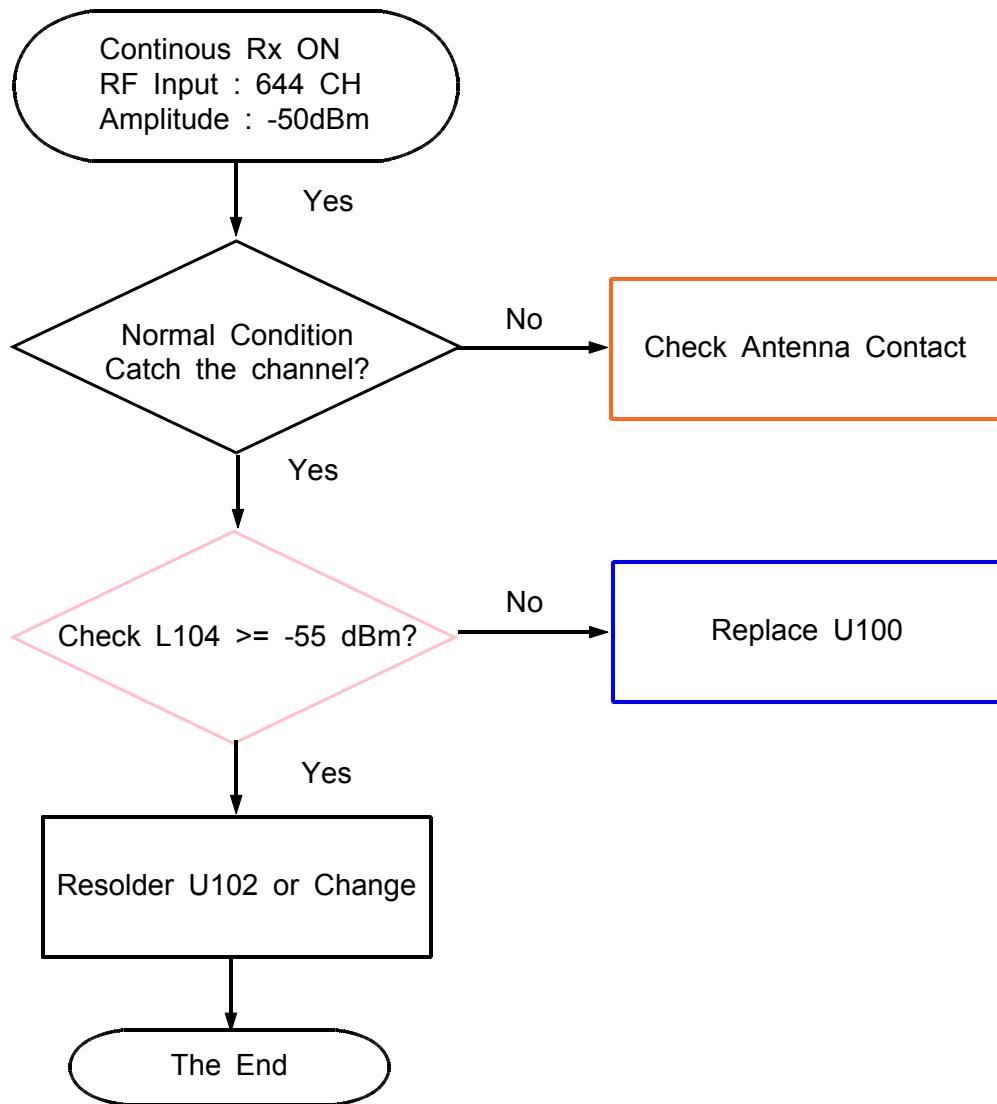
8-4-3. DCS RX

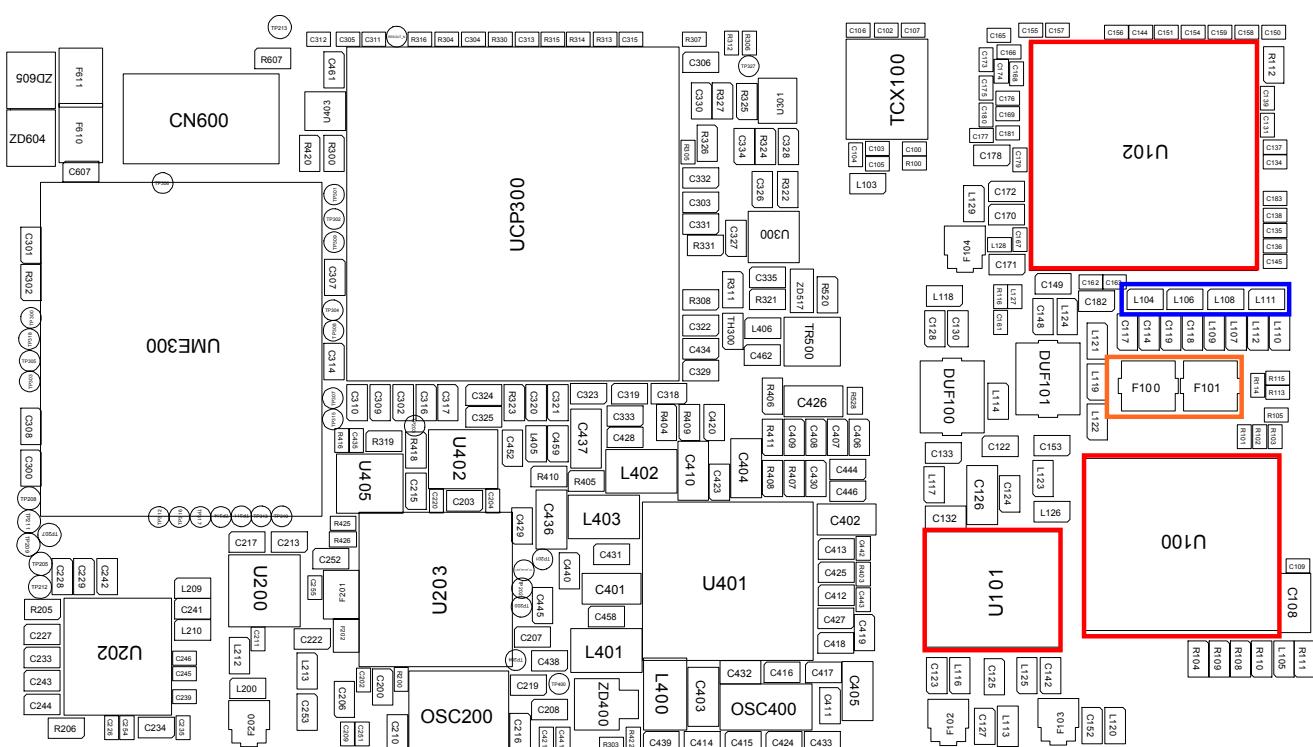
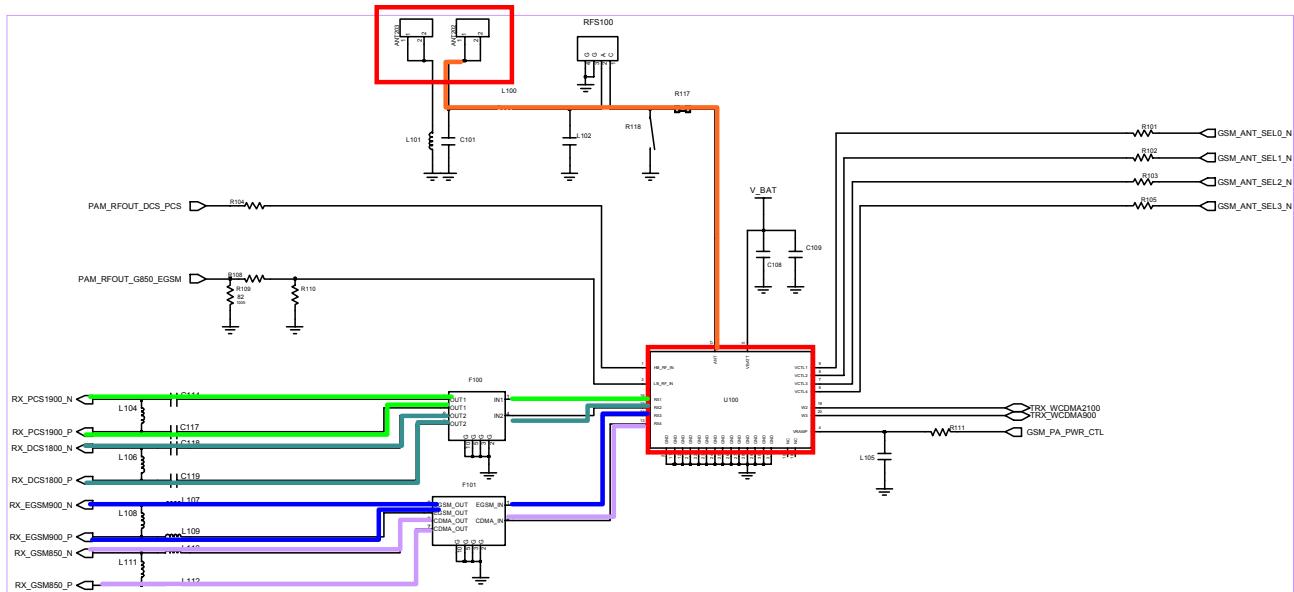
**If you check the tx chain,
Check the not only RF Device but also resistor, inductor and capacitor.



8-4-4. PCS RX

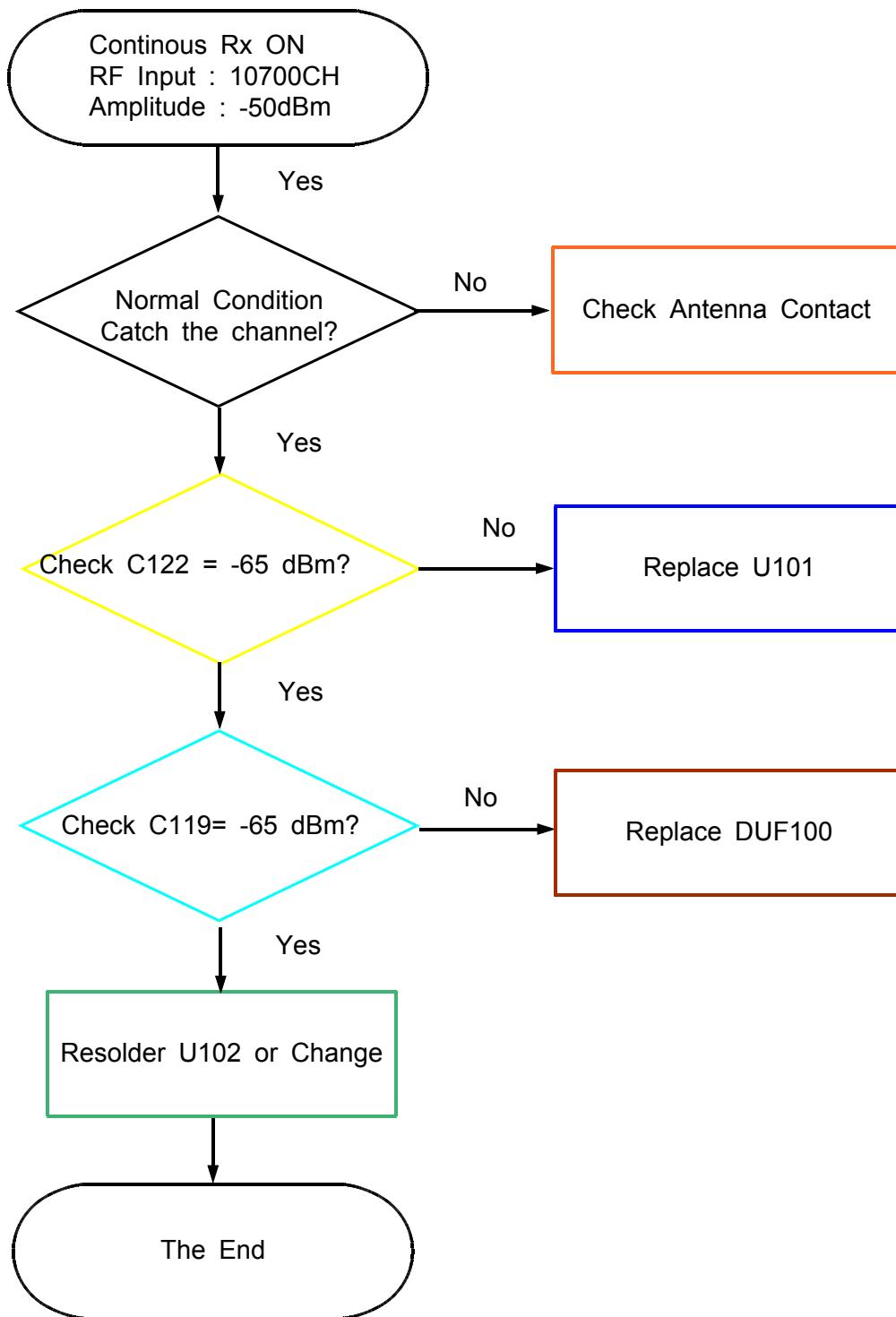
**If you check the tx chain,
Check the not only RF Device but also resistor, inductor and capacitor.





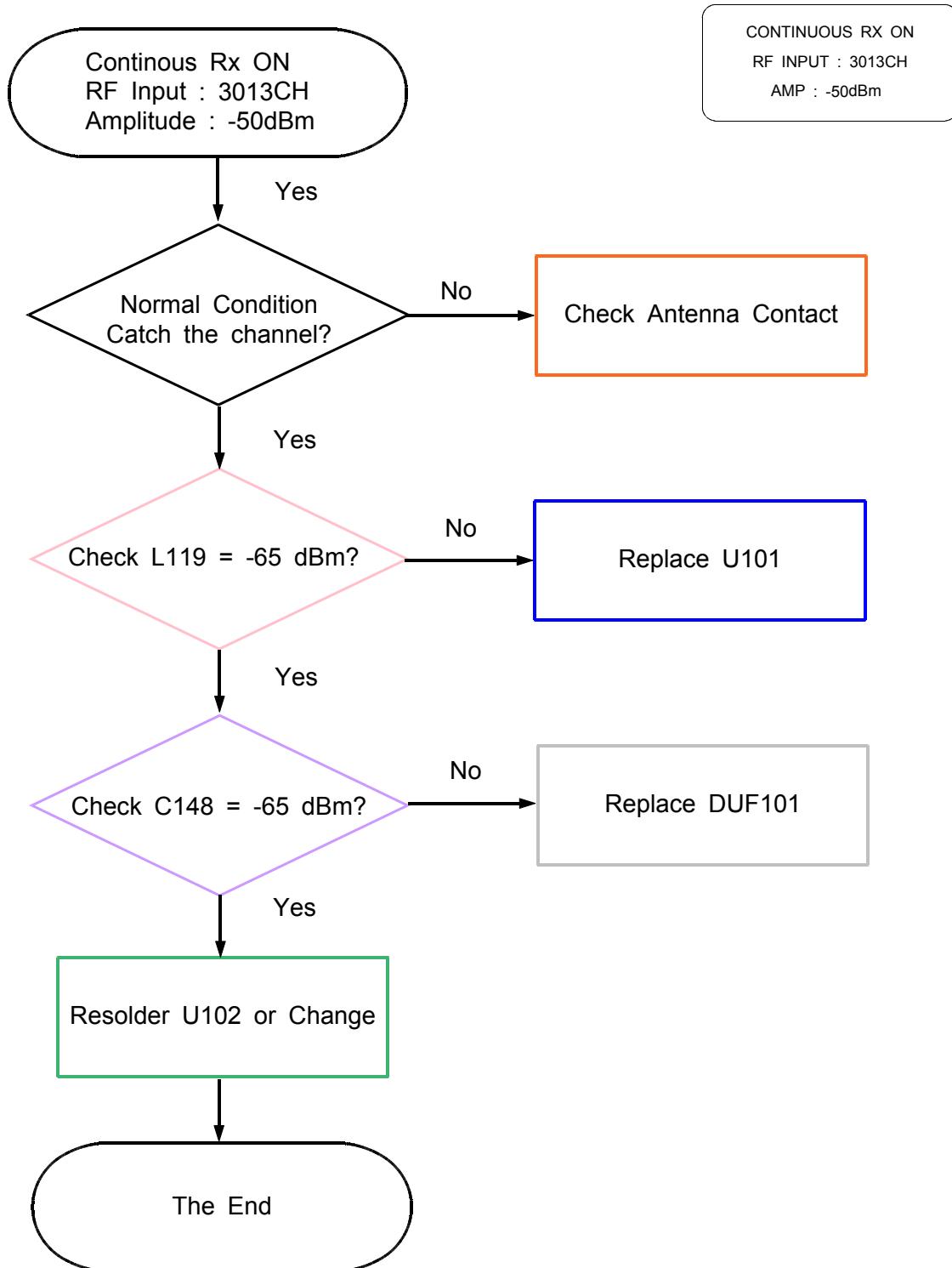
8-4-5. WCDMA Band1 RX

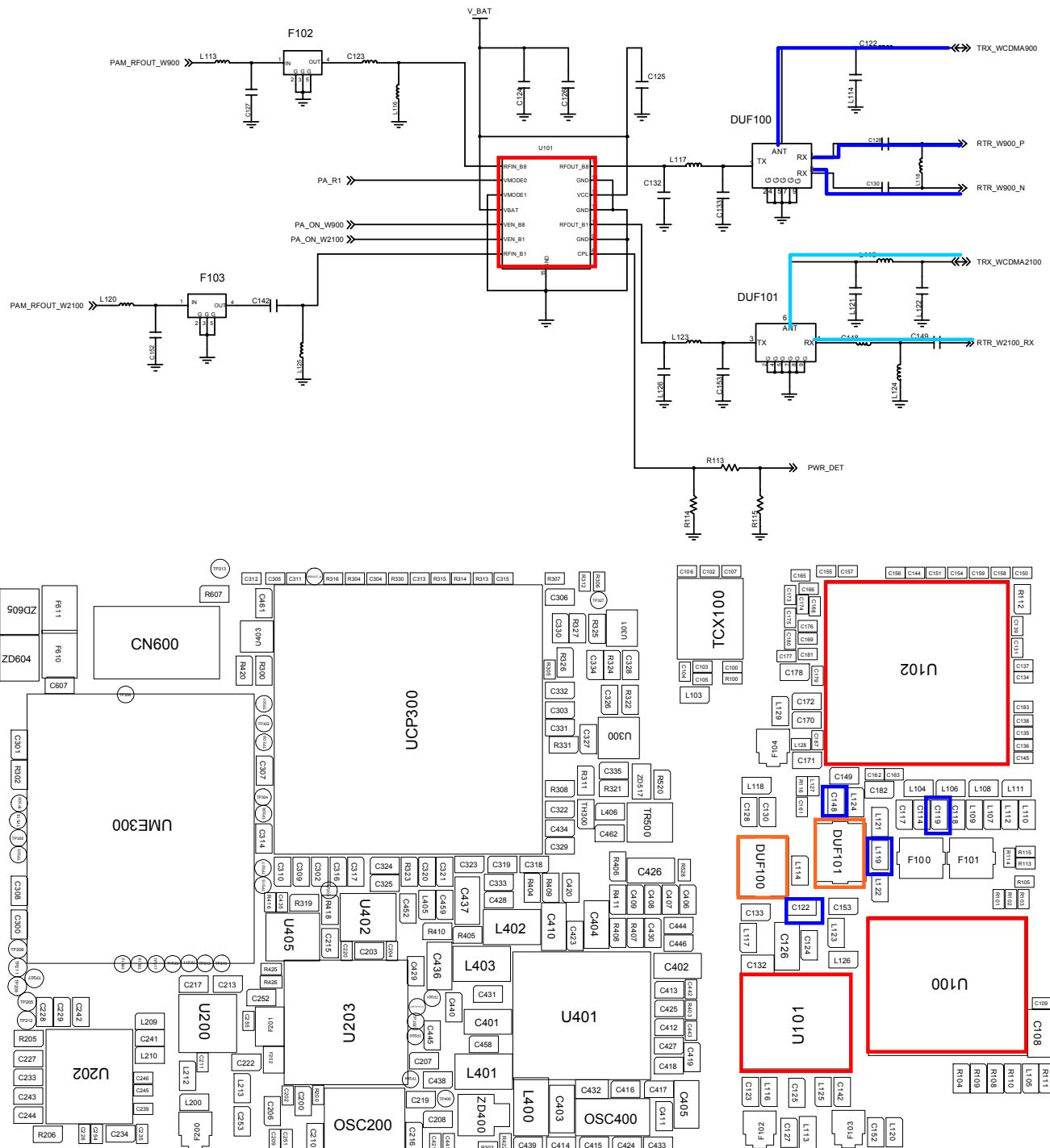
**If you check the tx chain,
Check the not only RF Device but also resistor, inductor and capacitor.



8-4-6. WCDMA Band8 RX

**If you check the tx chain,
Check the not only RF Device but also resistor, inductor and capacitor.

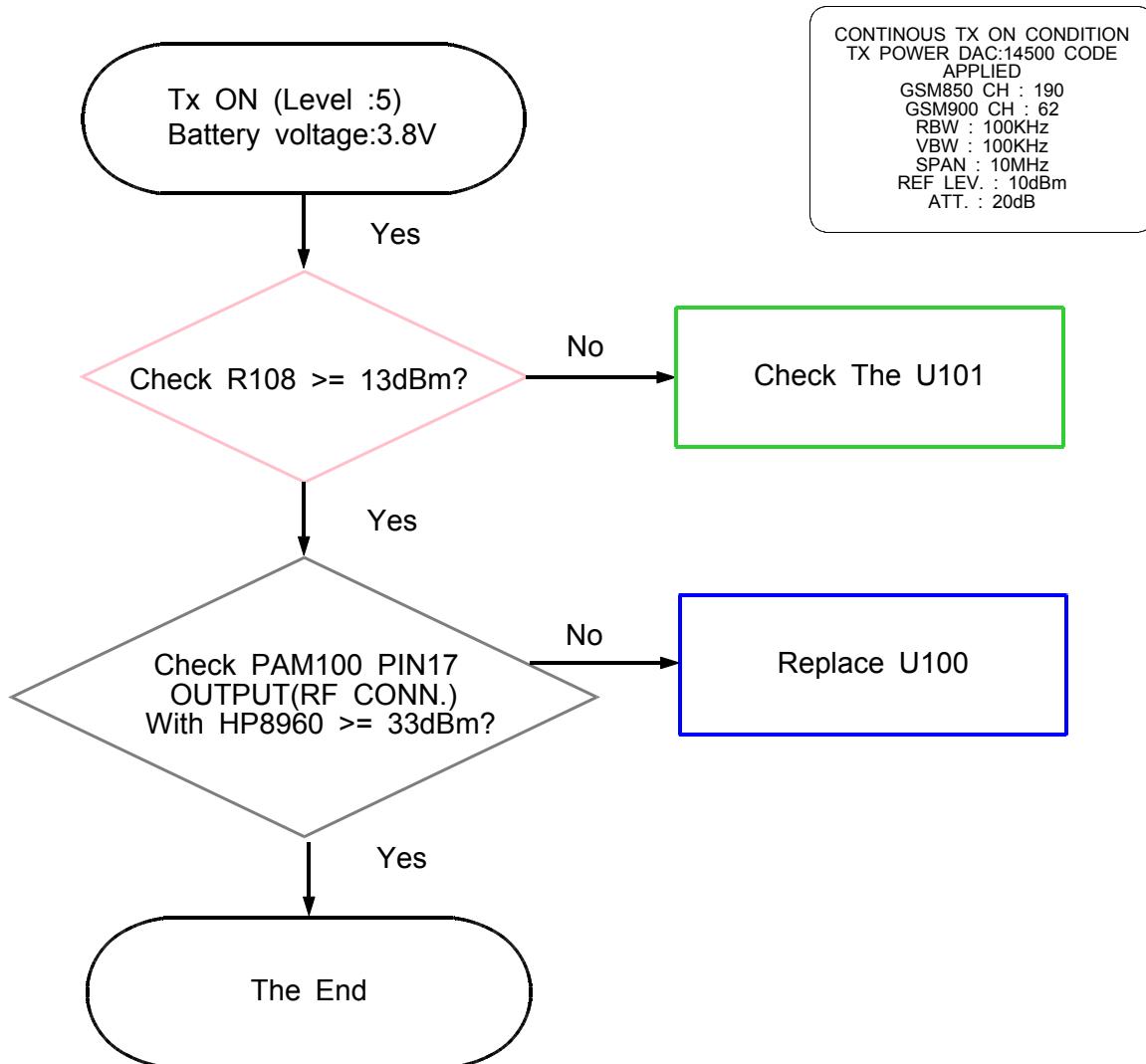




8-4-7. GSM850/900 TX

**If you check the tx chain,

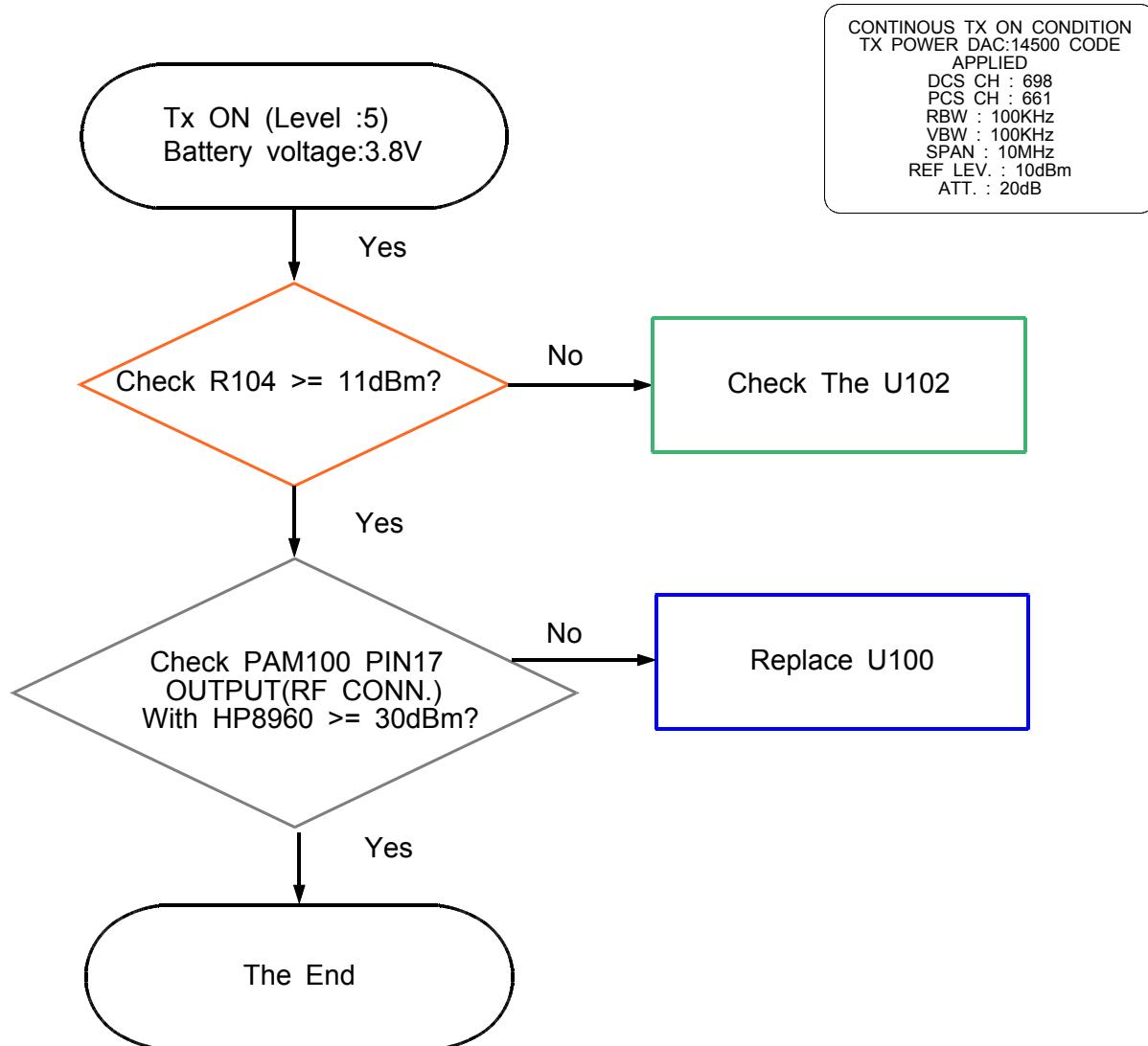
Check the not only RF Device but also resistor, inductor and capacitor.

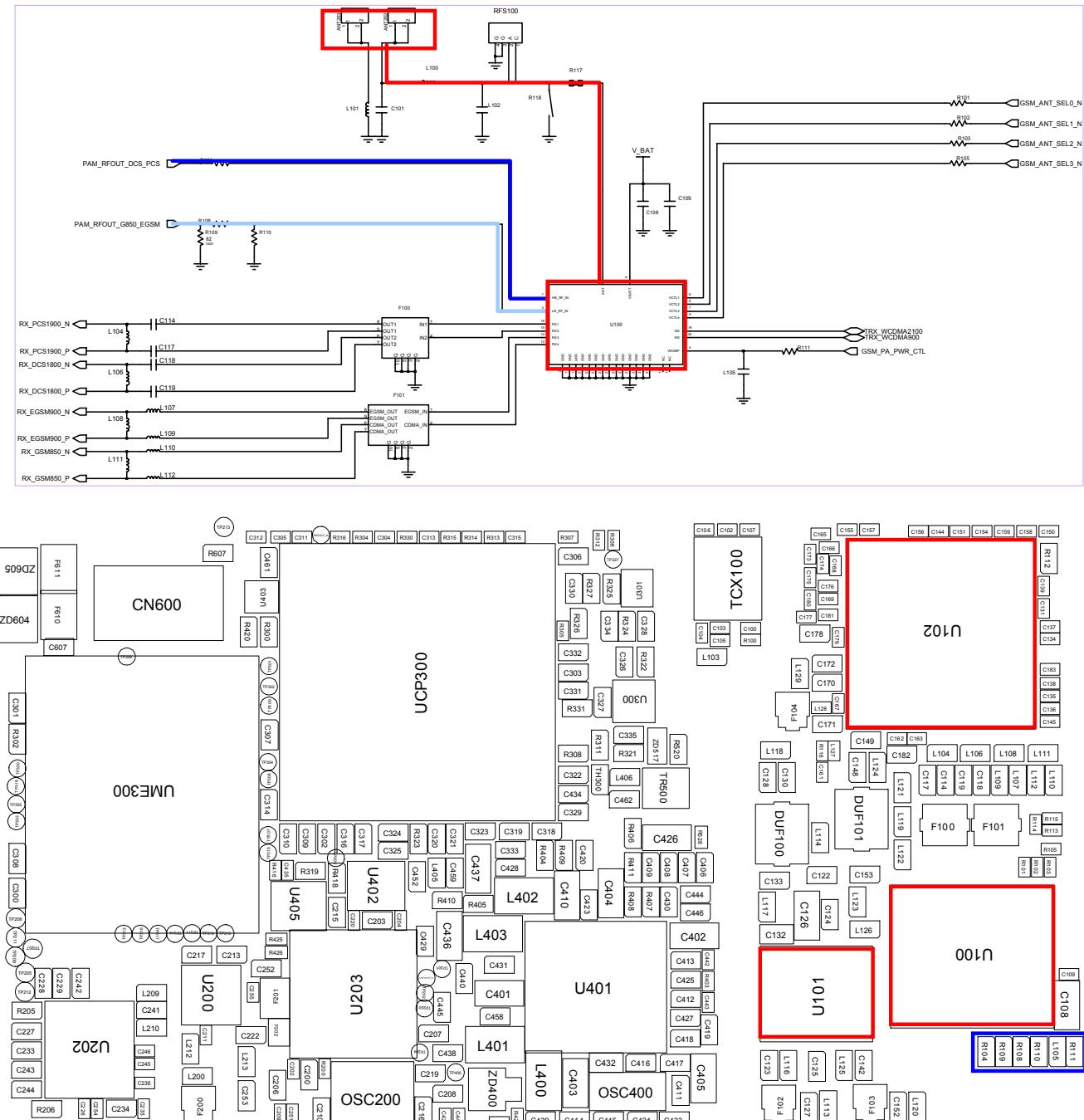


8-4-8. DCS/PCS TX

**If you check the tx chain,

Check the not only RF Device but also resistor, inductor and capacitor.

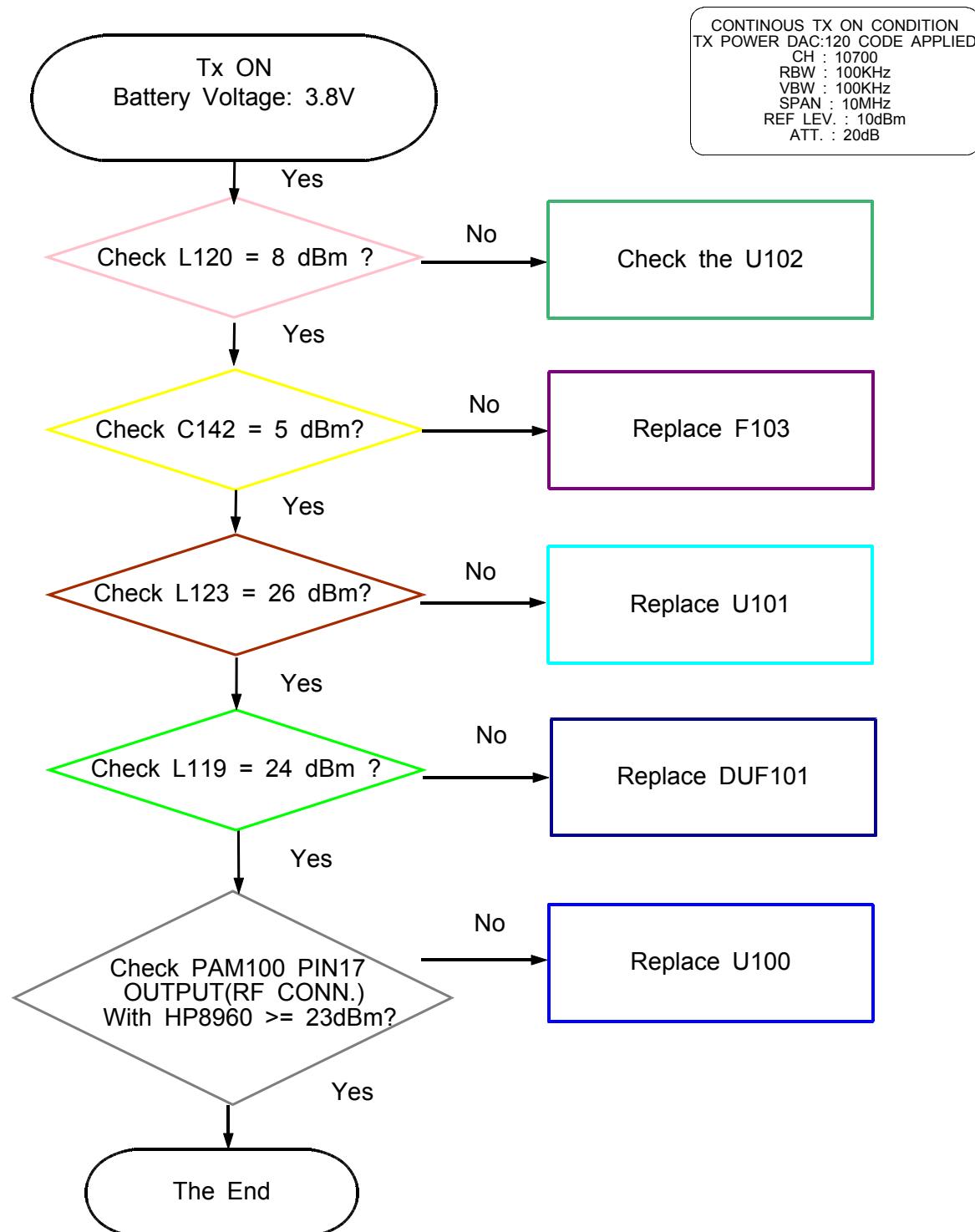




8-4-9. WCDMA Band1 TX

**If you check the tx chain,

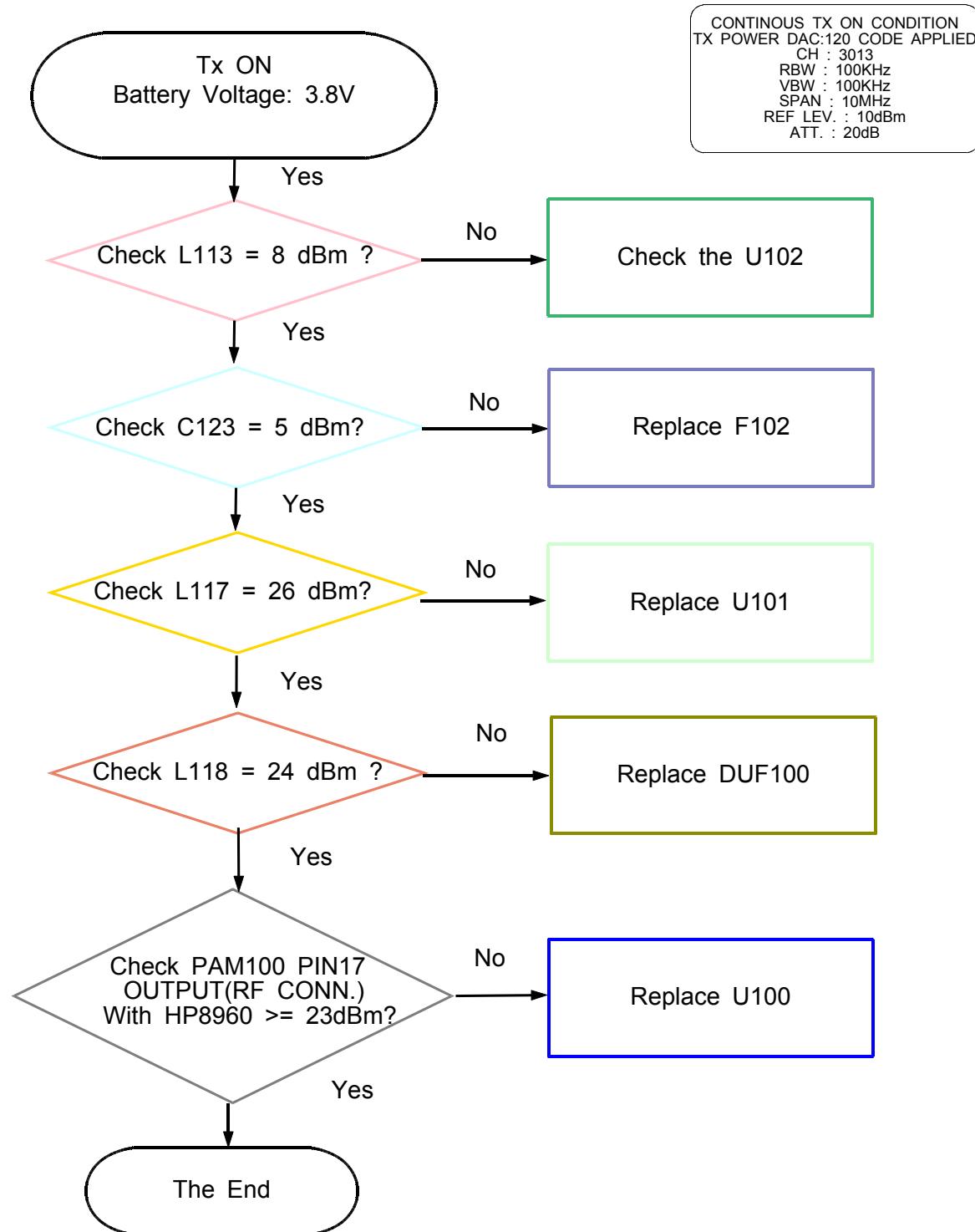
Check the not only RF Device but also resistor, inductor and capacitor.

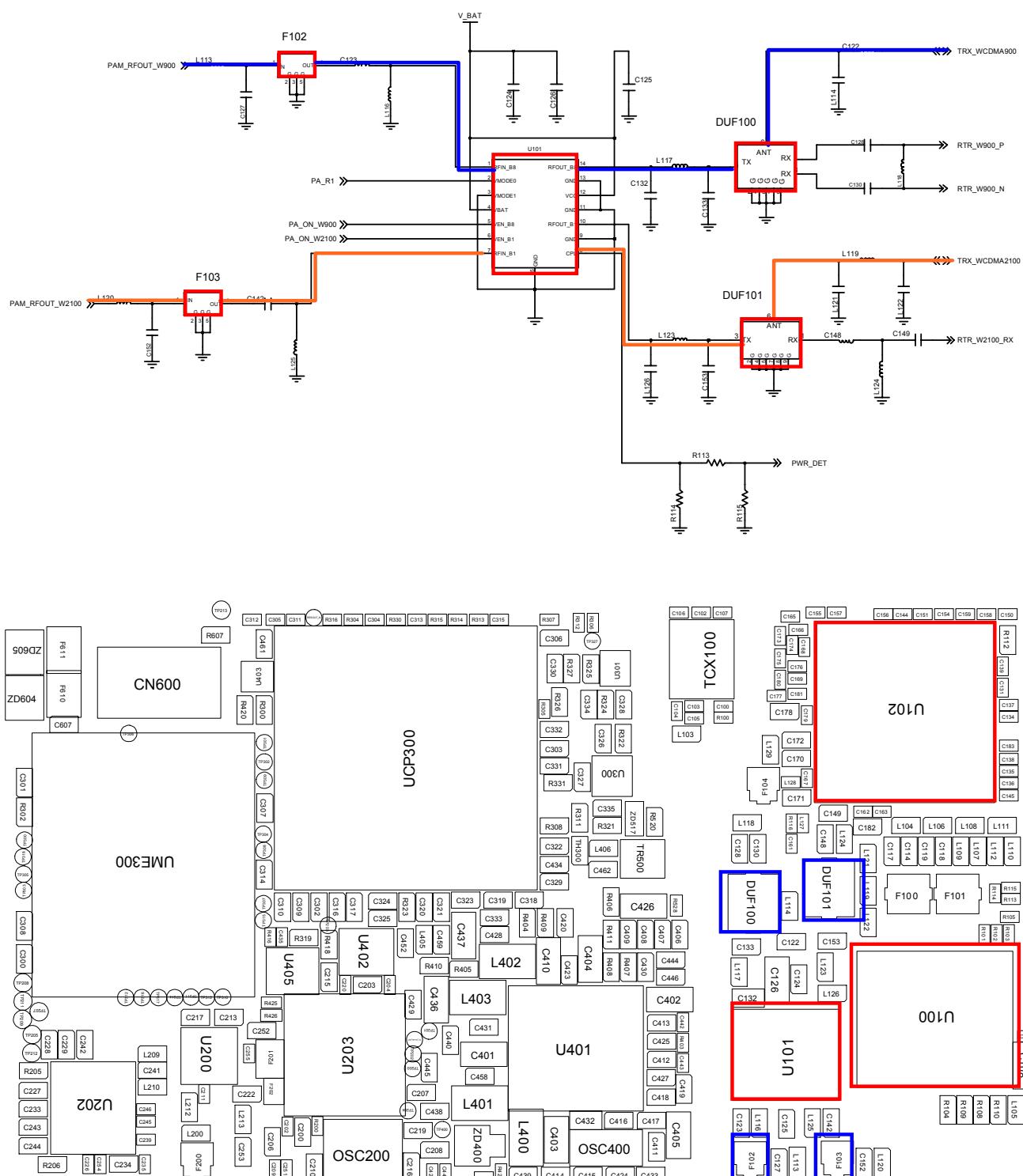


8-4-10. WCDMA Band8 TX

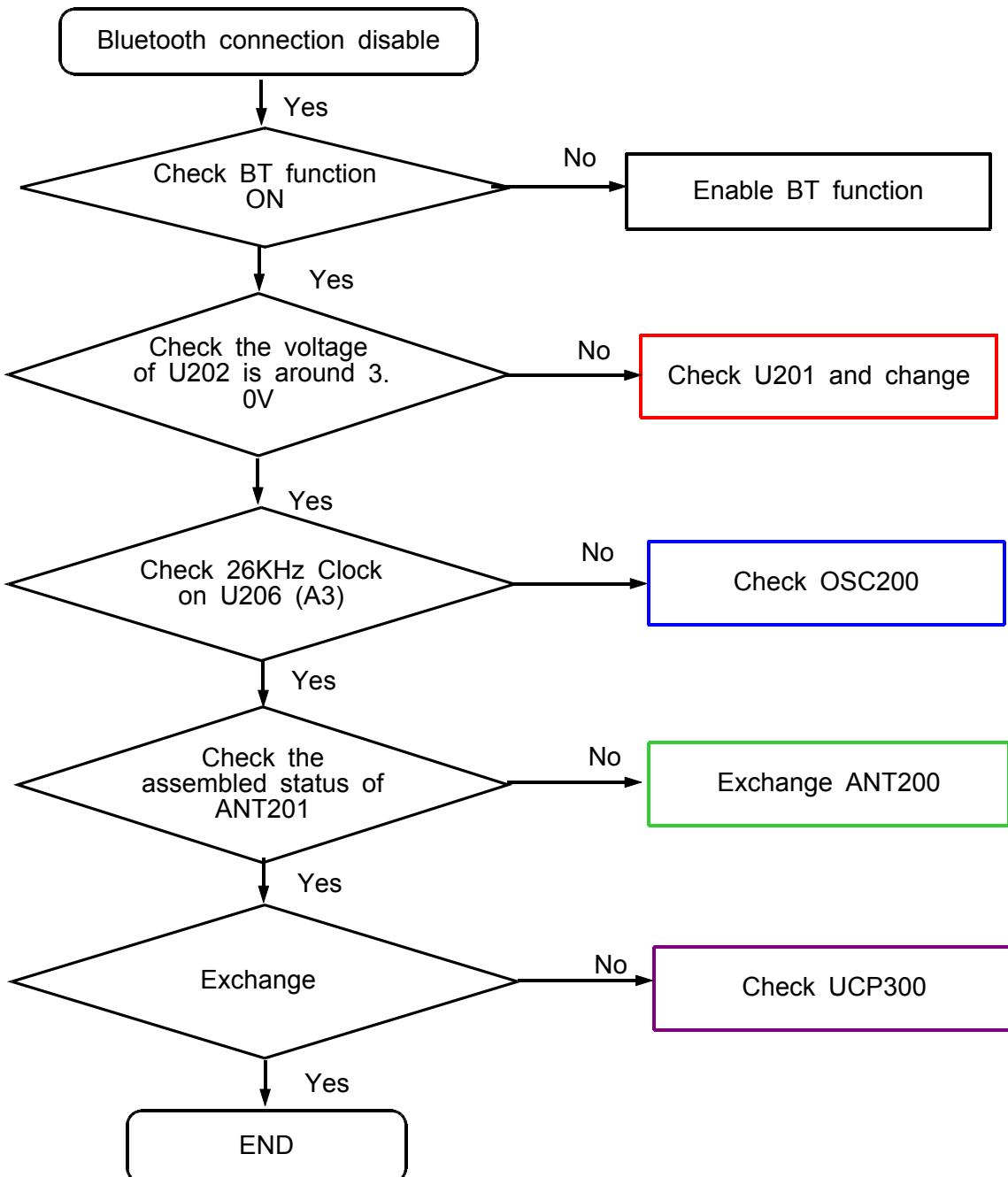
**If you check the tx chain,

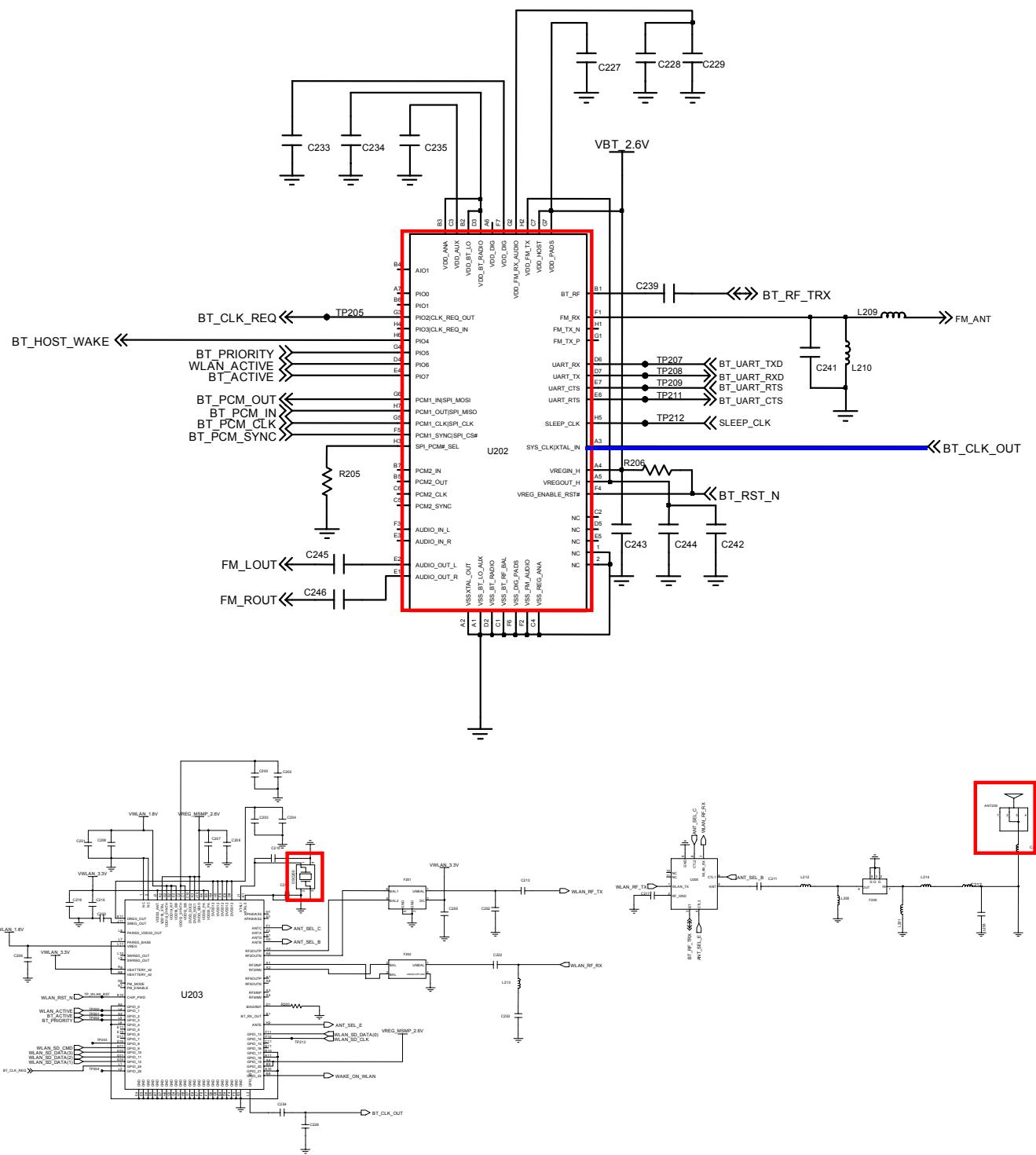
Check the not only RF Device but also resistor, inductor and capacitor.



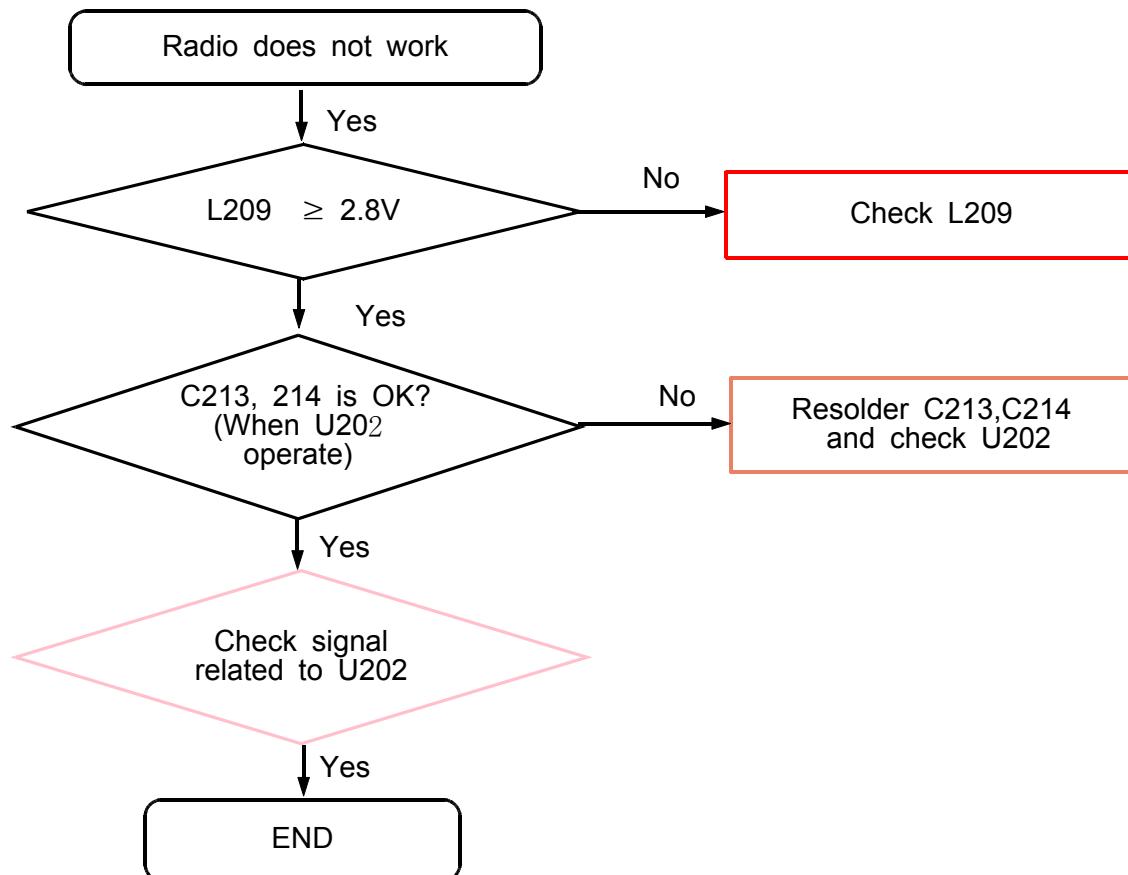


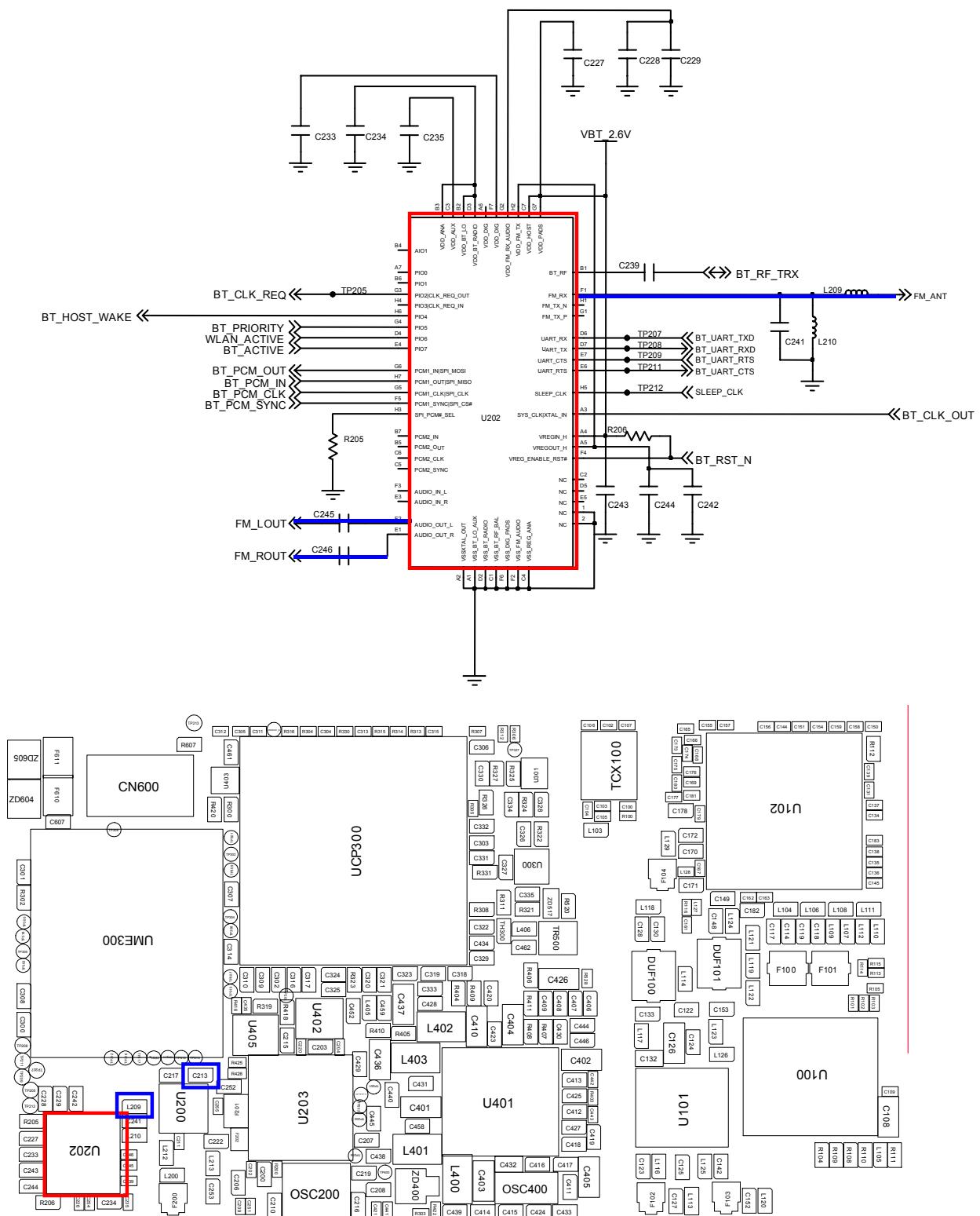
8-4-11. BLUETOOTH



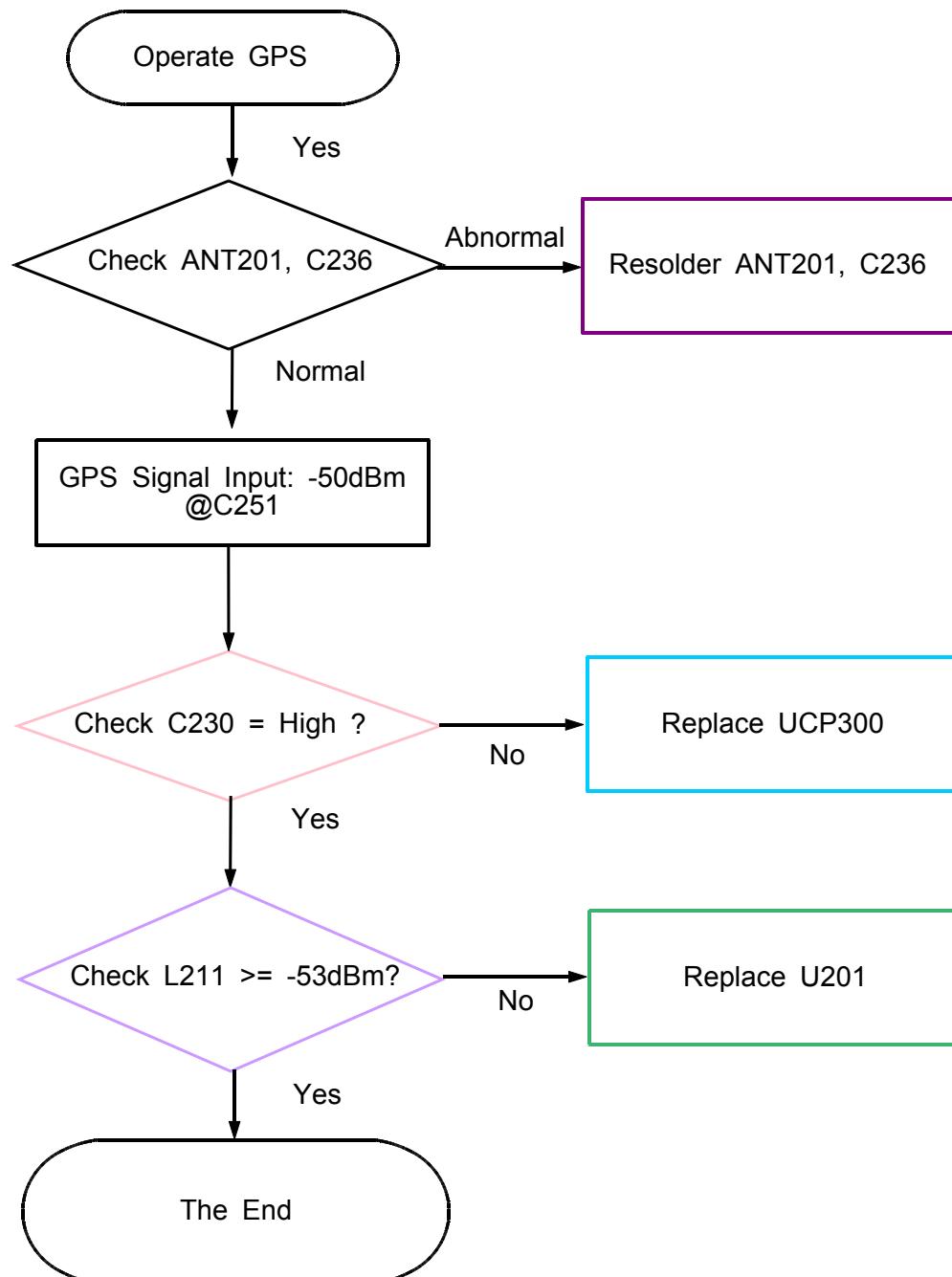


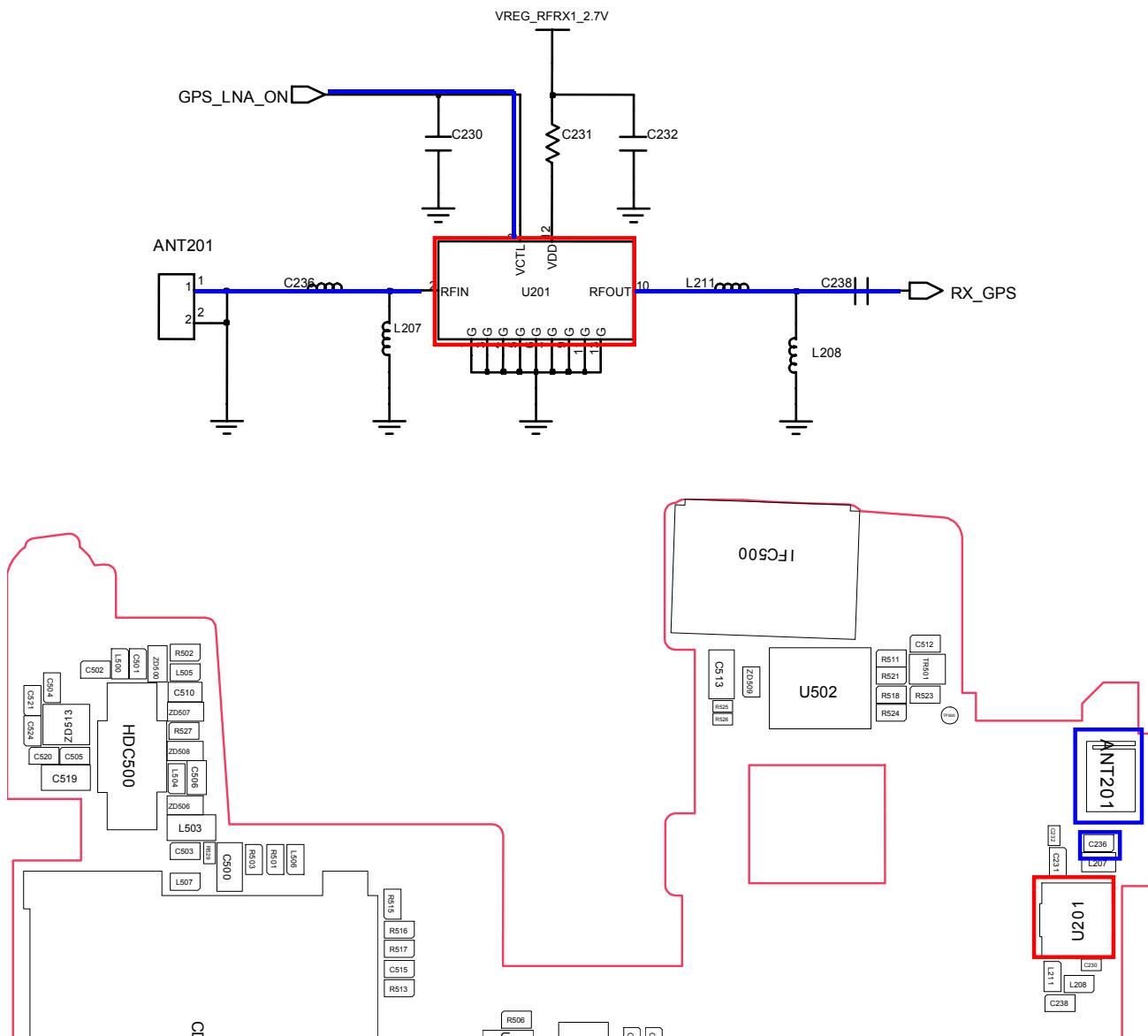
8-4-12. FM RADIO



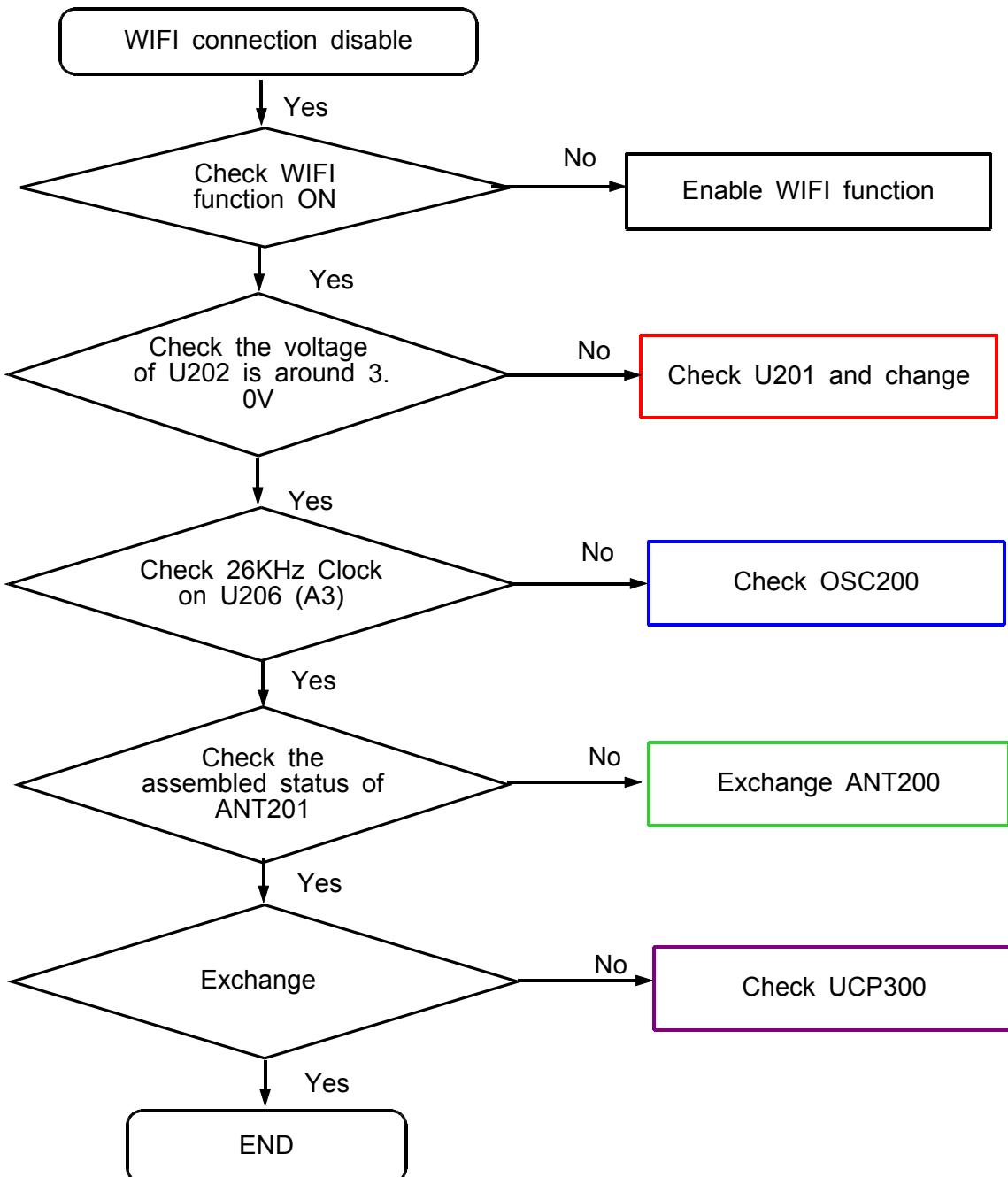


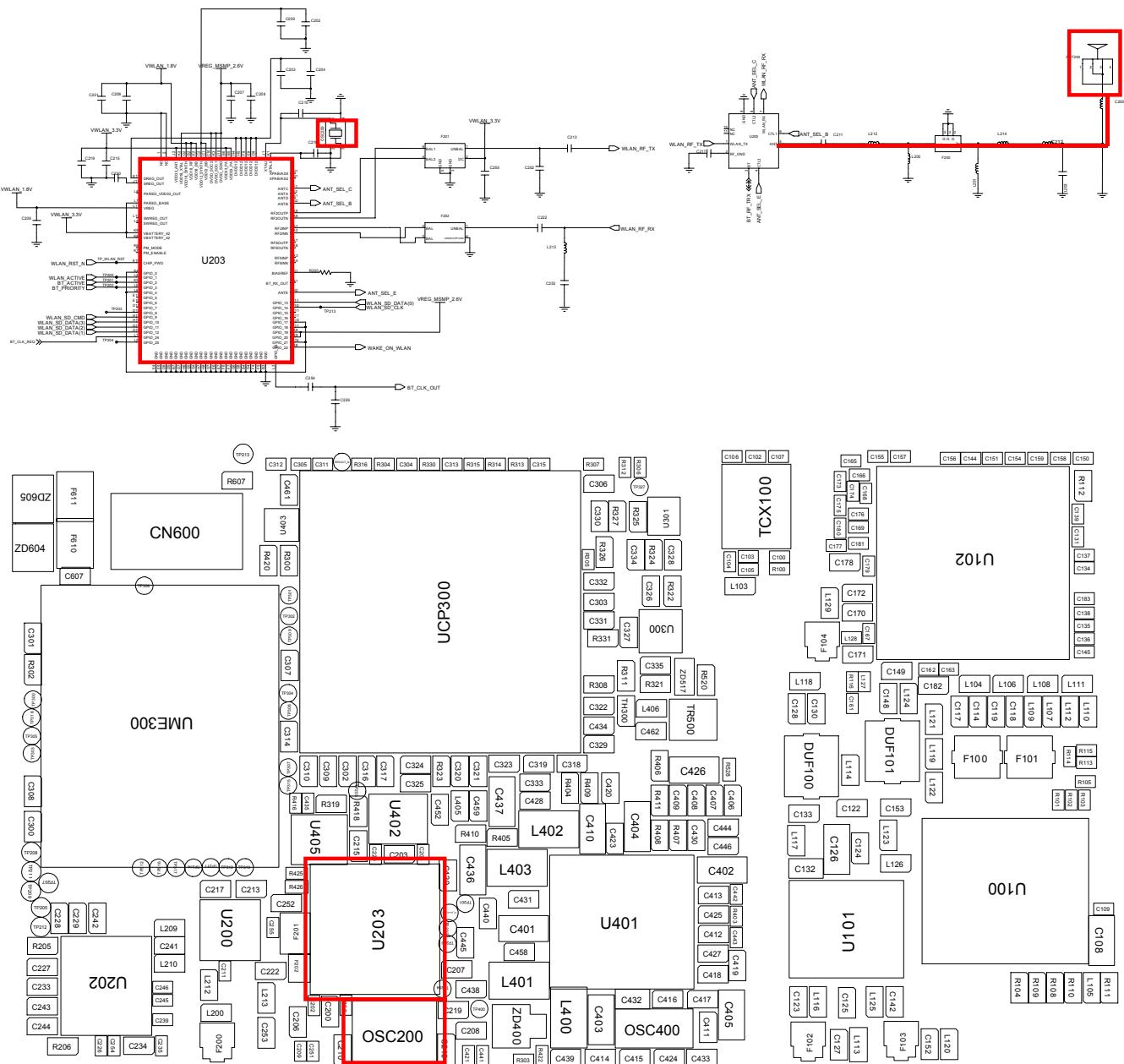
8-4-13. GPS





8-4-13. wifi



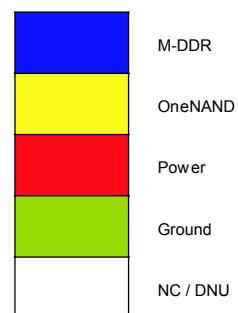


8-5. Service Schematics

- NC Point(Top View)**UME300**

	1	2	3	4	5	6	7	8	9	10	11	12	13	14		
A	DNU	DNU	NC	VSSo	VCCo	VSSQd	VDDQd	VDDQd	VSSQd	VSSd	VDDd	VSSQd	DNU	DNU		
B	DNU	VSSo	/OEo	NC	/RPo	/WEo	DQS3d	DQ31d	DQ29d	DQ20d	DQ30d	DQ27d	VDDQd	DNU		
C	VSSd	NC	/WE _d	/AVDo	/CEo	RDYo	DQ22d	DQ16d	DQ21d	DQ28d	DQ26d	DQ17d	DQM2d	VDDQd		
D	VDDd	/CSd	BA0d	A1 Index										DQ25d	DQM3d	VSSQd
E	NC	/RASd	A2d		VCCo	NC	NC	INTo	NC	NC		DQ24d	DQ23d	DQS2d		
F	/CASd	A12d	A0d		CLKo					NC		DQ19d	DQ18d	VSSQd		
G	CKEd	A9d	BA1d		VSSo					NC		VDDd	VDDQd	CKd		
H	VDDd	A11d	A7d		ADQ8o					ADQ15o		VSSd	VDDQd	/CKd		
J	A4d	VSSd	A5d		ADQ9o					ADQ14o		DQS1d	DQM0d	VSSQd		
K	A6d	A10d	A3d		ADQ10o	ADQ11o	VCCQo	VSSo	ADQ12o	ADQ13o		DQ10d	DQM1d	DQ12d		
L	A13d	A8d	A1d												DQ13d	DQ15d
M	VSSd	VDDd	NC	ADQ5o	ADQ2o	ADQ0o	DQ14d	DQ11d	DQ1d	DQ5d	DQ4d	DQ6d	DQ8d	VDDQd		
N	DNU	VCCQo	NC	ADQ6o	ADQ3o	VSSQd	DQ3d	DQ9d	DQ0d	DQ7d	DQ2d	DQS0d	VDDQd	DNU		
P	DNU	DNU	VSSo	ADQ7o	ADQ4o	ADQ1o	VDDQd	VDDQd	VSSQd	VSSd	VDDd	VSSQd	DNU	DNU		

153 FBGA: Top View (Ball Down)



UCP300(● : NC)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
A	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
B	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	●	
C	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	●	
D	●	○	○																						○	○	●	
E	●	○	○																						○	○	●	
F	●	○	○																						○	○	●	
G	●	○	○																						○	○	●	
H	●	○	○																						○	○	●	
J	●	○	○																						○	○	●	
K	●	○	○																						○	○	●	
L	●	○	○																						○	○	●	
M	●	○	○																						○	○	●	
N	●	○	○																						○	○	●	
P	●	○	○																						○	○	●	
R	●	○	○																						○	○	●	
T	●	○	○																						○	○	●	
U	●	○	○																						○	○	●	
V	●	○	○																						○	○	●	
W	●	○	○																						○	○	●	
Y	●	○	○																						○	○	●	
AA	●	○	○																						○	○	●	
AB	●	○	○																						○	○	●	
AC	●	○	○																						○	○	●	
AD	●	○	○																						○	○	●	
AE	●	○	○																						○	○	●	
AF	●	○	○																						○	○	●	
AG	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	

5. MAIN Electrical Parts List

5-1. Main

SEC CODE	DESIGN LOC	DESCRIPTION
4202-001463	ANT200	ODBTP3015
2409-001172	BAT400	SM3R3703-R01
3711-006910	BTC400	KQ03SL-3R
2203-006194	C100	GRP033R70J103K
2203-001385	C101	GRP1555C1H1R5C
2203-005806	C102	GRP033R71C102K
2203-006556	C103	GRM0335C1E470J
2203-005806	C104	GRP033R71C102K
2203-006423	C105	GRM33X5R104K6.
2203-006979	C106	CL03B103KP3NNN
2203-005806	C107	GRP033R71C102K
2203-007270	C108	CL10A106KP8NNN
2203-006611	C109	GRM0335C1E2R7C
2203-005053	C114	GRP1555C1H3R9C
2203-005053	C117	GRP1555C1H3R9C
2203-005053	C118	GRP1555C1H3R9C
2203-005053	C119	GRP1555C1H3R9C
2703-002208	C122	CIH05T2N2SNC
2703-002176	C123	CIH05T2N7SNC
2203-000438	C124	GRP155R71H102K
2203-002443	C125	GRP155R71H331K
2203-007270	C126	CL10A106KP8NNN
2203-005281	C127	GRP1555C1H1R5B
2203-005053	C128	GRP1555C1H3R9C
2203-005053	C130	GRP1555C1H3R9C
2203-005732	C131	GRP0335C1E680J
2203-005446	C132	GRP1555C1H2R7B
2203-005736	C134	GRP0335C1E101J
2203-005725	C135	GRP0335C1E220J
2203-006423	C136	GRM33X5R104K6.
2203-006423	C137	GRM33X5R104K6.
2203-005736	C138	GRP0335C1E101J
2203-005732	C139	GRP0335C1E680J
2203-000812	C142	GRP1555C1H330J
2203-005736	C144	GRP0335C1E101J
2203-005682	C145	GRP0335C1E330J

SEC CODE	DESIGN LOC	DESCRIPTION
2703-002365	C148	CIH05T1N2SNC
2203-000812	C149	GRP1555C1H330J
2203-006423	C150	GRM33X5R104K6.
2203-005725	C151	GRP0335C1E220J
2203-005281	C152	GRP1555C1H1R5B
2203-006194	C154	GRP033R70J103K
2203-006423	C155	GRM33X5R104K6.
2203-005806	C156	GRP033R71C102K
2203-005736	C157	GRP0335C1E101J
2203-005725	C158	GRP0335C1E220J
2203-005725	C159	GRP0335C1E220J
2203-005736	C161	GRP0335C1E101J
2203-005736	C162	GRP0335C1E101J
2203-006423	C163	GRM33X5R104K6.
2007-009766	C165	RC0603J5R1CS
2203-005736	C166	GRP0335C1E101J
2203-005725	C167	GRP0335C1E220J
2203-006423	C168	GRM33X5R104K6.
2203-006194	C169	GRP033R70J103K
2203-005281	C170	GRP1555C1H1R5B
2203-000812	C171	GRP1555C1H330J
2203-005281	C172	GRP1555C1H1R5B
2203-006423	C173	GRM33X5R104K6.
2203-005725	C174	GRP0335C1E220J
2203-005736	C175	GRP0335C1E101J
2203-006423	C176	GRM33X5R104K6.
2007-009766	C177	RC0603J5R1CS
2203-007317	C178	CV05X5R475M06A
2203-005736	C179	GRP0335C1E101J
2203-006423	C180	GRM33X5R104K6.
2203-005736	C181	GRP0335C1E101J
2203-007317	C182	CV05X5R475M06A
2203-005682	C183	GRP0335C1E330J
2203-006872	C200	GRM155R60J225M
2203-006839	C202	CL03A104KP3NNN
2203-006872	C203	GRM155R60J225M
2203-006839	C204	CL03A104KP3NNN

SEC CODE	DESIGN LOC	DESCRIPTION
2203-006872	C206	GRM155R60J225M
2203-006048	C207	GRM155R71A104K
2203-006048	C208	GRM155R71A104K
2203-006423	C209	GRM33X5R104K6.
2203-005393	C210	GRP1555C1H5R0B
2203-006305	C211	CM03CG100J25AH
2703-002365	C212	CIH05T1N2SNC
2203-000330	C213	GRP1555C1H120J
2203-007271	C215	CL05A225KP5NSN
2203-005393	C216	GRP1555C1H5R0B
2203-000696	C217	GRP1555C1H2R0C
2203-006681	C219	GRM155F51E104Z
2203-006121	C220	GRM33X7R471K16
2203-000278	C222	GRP1555C1H100D
2203-006048	C227	GRM155R71A104K
2203-000254	C228	GRP155R71C103K
2203-006872	C229	GRM155R60J225M
2203-005719	C230	GRP0335C1E390J
2007-001313	C231	MCR01MZP5J331
2203-005682	C232	GRP0335C1E330J
2203-006872	C233	GRM155R60J225M
2203-006872	C234	GRM155R60J225M
2203-007391	C235	CL03A474KQ3NNN
2703-002369	C236	CIH05T1N5SNC
2203-000278	C238	GRP1555C1H100D
2203-005736	C239	GRP0335C1E101J
2203-000679	C241	GRP1555C1H270J
2203-006048	C242	GRM155R71A104K
2203-006872	C243	GRM155R60J225M
2203-006872	C244	GRM155R60J225M
2203-007210	C245	CV03X5R224K06A
2203-007210	C246	CV03X5R224K06A
2703-001749	C250	LL1005-FH1N0S
2203-005806	C251	GRP033R71C102K
2203-001383	C252	GRP1555C1HR50C
2203-005395	C253	C1005CG1H4R7BT
2203-005725	C254	GRP0335C1E220J

SEC CODE	DESIGN LOC	DESCRIPTION
2203-007210	C255	CV03X5R224K06A
2203-006048	C300	GRM155R71A104K
2203-006048	C301	GRM155R71A104K
2203-006399	C302	GRM155R60J105K
2203-006048	C303	GRM155R71A104K
2203-006423	C304	GRM33X5R104K6.
2203-006423	C305	GRM33X5R104K6.
2203-006048	C306	GRM155R71A104K
2203-006399	C307	GRM155R60J105K
2203-006048	C308	GRM155R71A104K
2203-007385	C309	CL05A106MR5NRN
2203-007385	C310	CL05A106MR5NRN
2203-006423	C311	GRM33X5R104K6.
2203-006423	C312	GRM33X5R104K6.
2203-006423	C313	GRM33X5R104K6.
2203-006048	C314	GRM155R71A104K
2203-007449	C315	CV03X5R105M06A
2203-006048	C316	GRM155R71A104K
2203-006048	C317	GRM155R71A104K
2203-006399	C318	GRM155R60J105K
2203-006399	C319	GRM155R60J105K
2203-006048	C320	GRM155R71A104K
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2203-006048	C322	GRM155R71A104K
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