GSM TELEPHONE

GT-i8700

SERVICE Manual

GSM TELEPHONE

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SAMSUNG ELECTRONICS

GSPN (Global Service Partner Network)

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

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2. Specification

2-1. GSM General Specification

	EGSM 850	EGSM 900	DCS 1800	PCS 1900	WCDMA 900	WCDMA 1900	WCDMA 2100
Freq. Band[MHz] Uplink/Downlink	824~849 869~894	880~915 925~960	1710~1785 1805~1880	1850~1910 1930~1990	880~915 925~960	1850~1910 1930~1990	1920~1980 2110~2170
ARFCN range	128~251	0~124 & 975~1023	512~885	512~810	UL:2712~2863 DL:2937~3088	UL:9262~9538 DL:9662~9938	UL:9612~9888 DL:10562~10838
Tx/Rx spacing	45MHz	45MHz	95MHz	80MHz	45MHz	80MHz	190MHz
Mod. Bit rate/ Bit Period	270.833 Kbps 3.692 us	270.833 Kbps 3.692 us	270.833 Kbps 3.692 us	270.833 Kbps 3.692 us	3.84Mcps/s	3.84Mcps	3.84Mcps/s
Time Slot Period/ Frame Period	576.9 us 4.615 ms	576.9 us 4.615 ms	576.9 us 4.615 ms	576.9 us 4.615 ms	Frame length:10ms Slot length:0.667ms	Frame length: 10ms Slot length: 0.667ms	Frame length:10ms Slot length:0.667ms
Modulation	0.3GMSK	0.3GMSK	0.3GMSK	0.3GMSK	QPSK HPSK	QPSK HQPSK	QPSK HPSK
MS Power	33dBm ~5dBm	33dBm ~5dBm	30dBm ~0dBm	30dBm ~0dBm	24dBm ~-50dBm	24dBm ~ -50dBm	24dBm ~-50dBm
Power Class	4(max +33dBm)	4(max +33dBm)	1(max +30dBm)	1(max +30dBm)	3(max +24dBm)	3(max +24dBm)	3(max +24dBm)
Sensitivity	-102dBm	-102dBm	-100dBm	-100dBm	-103.7dBm	-106.7dBm	-106.7dBm
TDMA Mux	8	8	8	8	-	-	-
Cell Radius	35Km	35Km	2 Km	2 Km	2Km	2Km	2Km

2-2. GSM Tx Power Class

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

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

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

2-3. GSM EDGE TX power class

Only in Master

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

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

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

3. Operation Instruction and Installation

Main Function

- GSM 850 / 900 / 1800 / 1900
- GPRS EDGE 850 / 1900 Rx/Tx
- WCDMA 900 / 1900 / 2100
- HSDPA (Cat.8)
- HSUPA (Cat.6)
- FM Radio
- Bluetooth v2.1 + EDR
- WLAN b/g/n
- On Cell TSP Amoled 4.0" 800x480 16M Color
- 5.0M CMOS Camera
- MP3 Player

6. Level 1 Repair

6-1. S/W Download

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

- GT-I8700 Mobile Phone
- Data Cable
- JIG BOX (GH99-36900A)
- RF Test Cable (GH39-00985A)
- JIG Cable (GH39-01290A)
- Adapter (GH99-38251A)
- PC (Windows XP)
- USB cable.
- ROM Image : *.csc (CSC Image)
- ROM Images : *.bin (Phone Image), *.eb0 (PDA boot Image), *.nb0 (PDA Image)
- Supported OS : Windows 2000 SP4 /XP SP3 / Vista / Windows 7
- Samsung CDMA modem driver 5.2 or later must be installed.

6-1-2. Driver Installation

1. You must install Phone driver
   Phone driver : Samsung CDMA Modem driver v. 5.2 or later must be installed
2. Execute Cetus Downloader Ver. 5.56 for WP7.exe
3. Turn off Device Power and Then Turn on target device while pressing the ‘volume up’ key and ‘camera’ key in left side of Device.
4. Connect the USB Cable to host PC.
   So you can see the following screen.

Fig. 6-1. Notification of Samsung USB Composite Device

Fig. 6-2. Notification of Samsung CDMA Modem

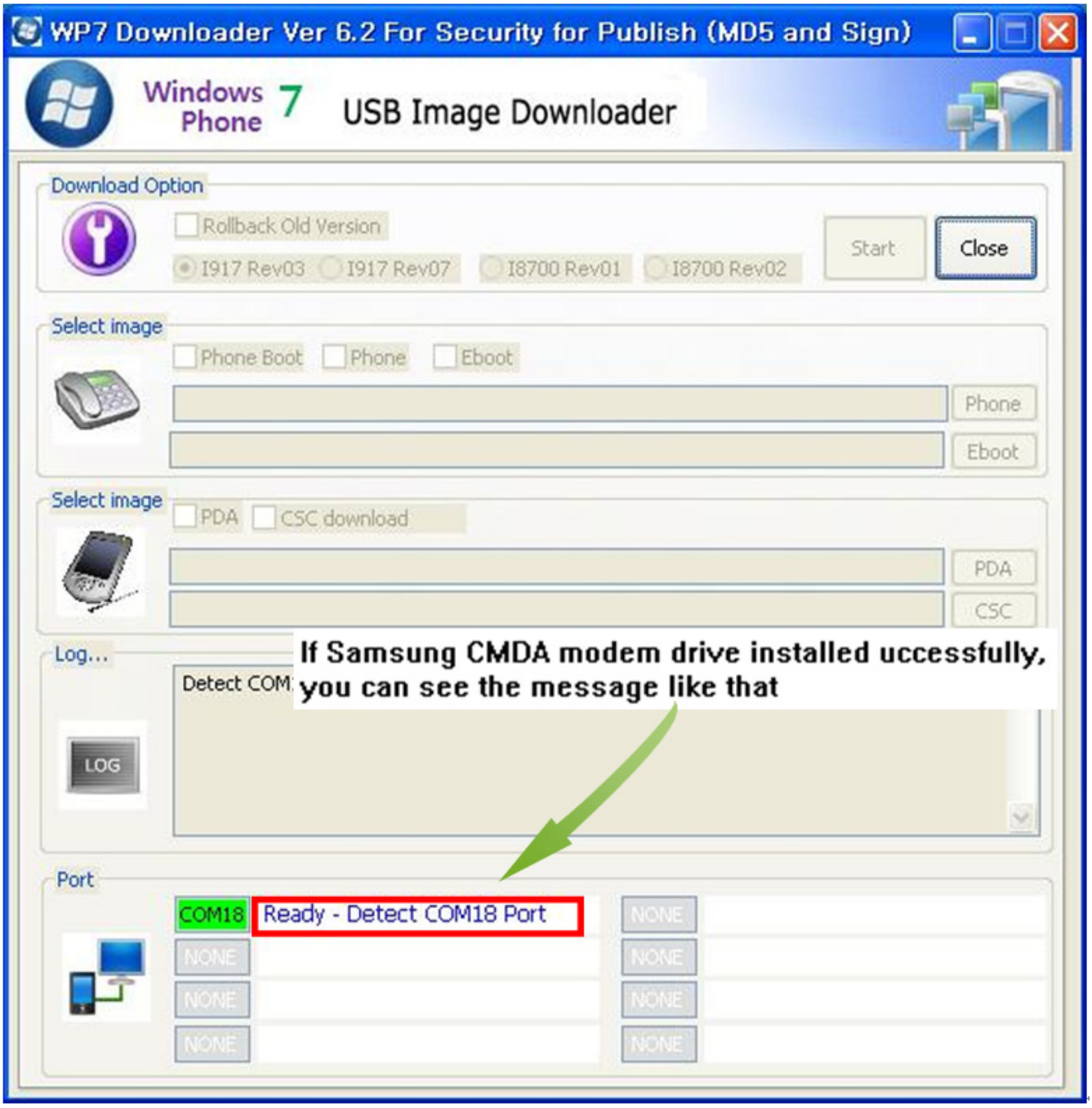


Fig. 6-3. GT-I8700 Image Downloader

6-1-3. S/W Downloader Program

1. Image files Drag and Drop.

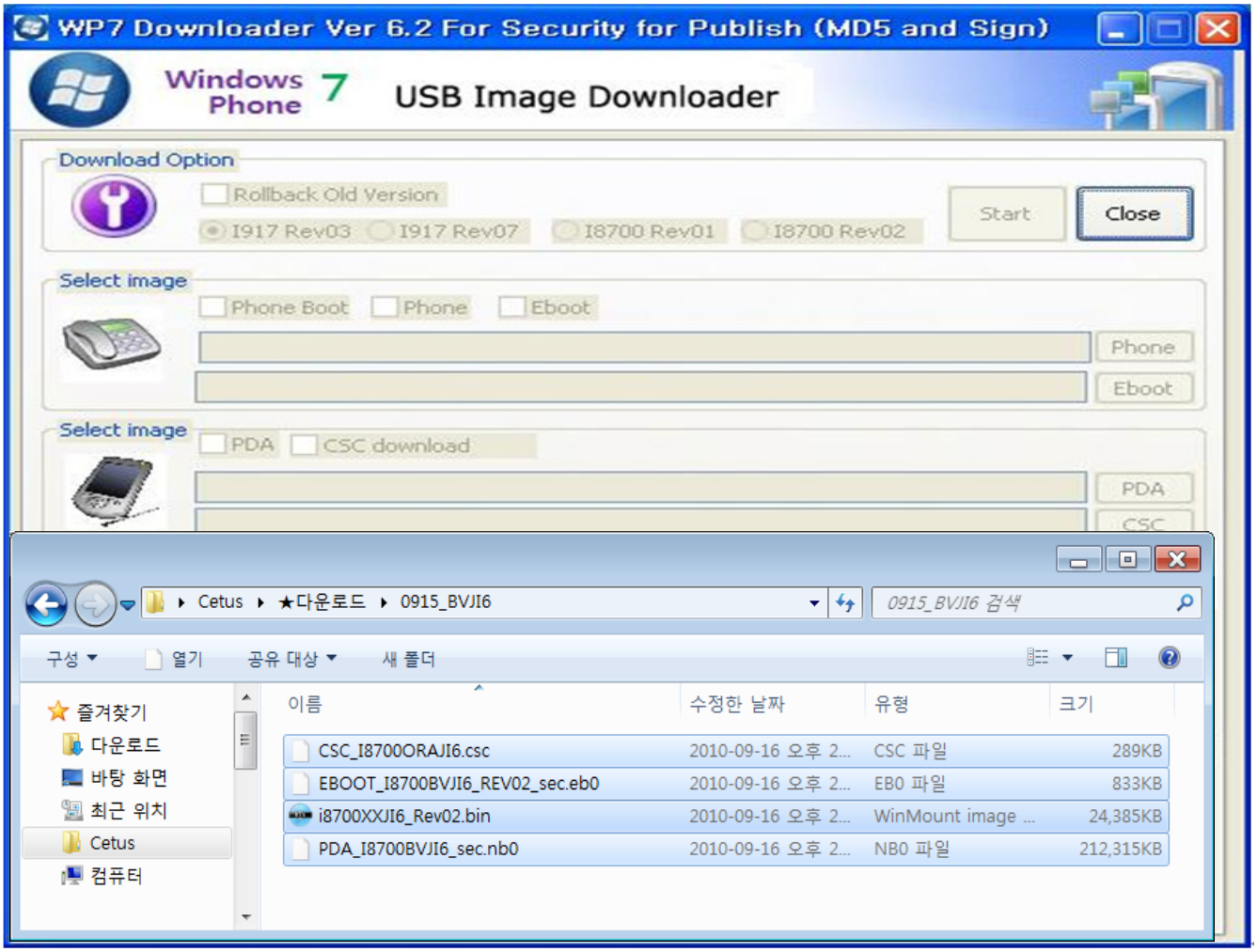


Fig. 6-4. Select & Drag image file

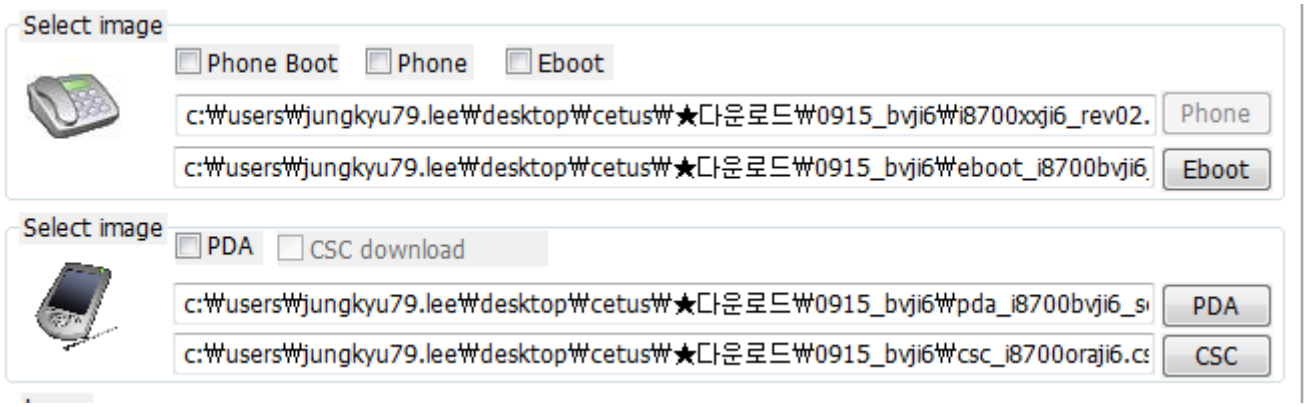


Fig. 6-5. Drop image file and Image file open success

2. Select the image download mode.

You can use any of below download modes for your convenience. Each of them is as follows.

1. Phone Boot : download Phone Boot binary.
2. Phone Binary : download Phone binary.
3. PDA Boot : download PDA Boot binary.
4. PDA Image : download PDA binary

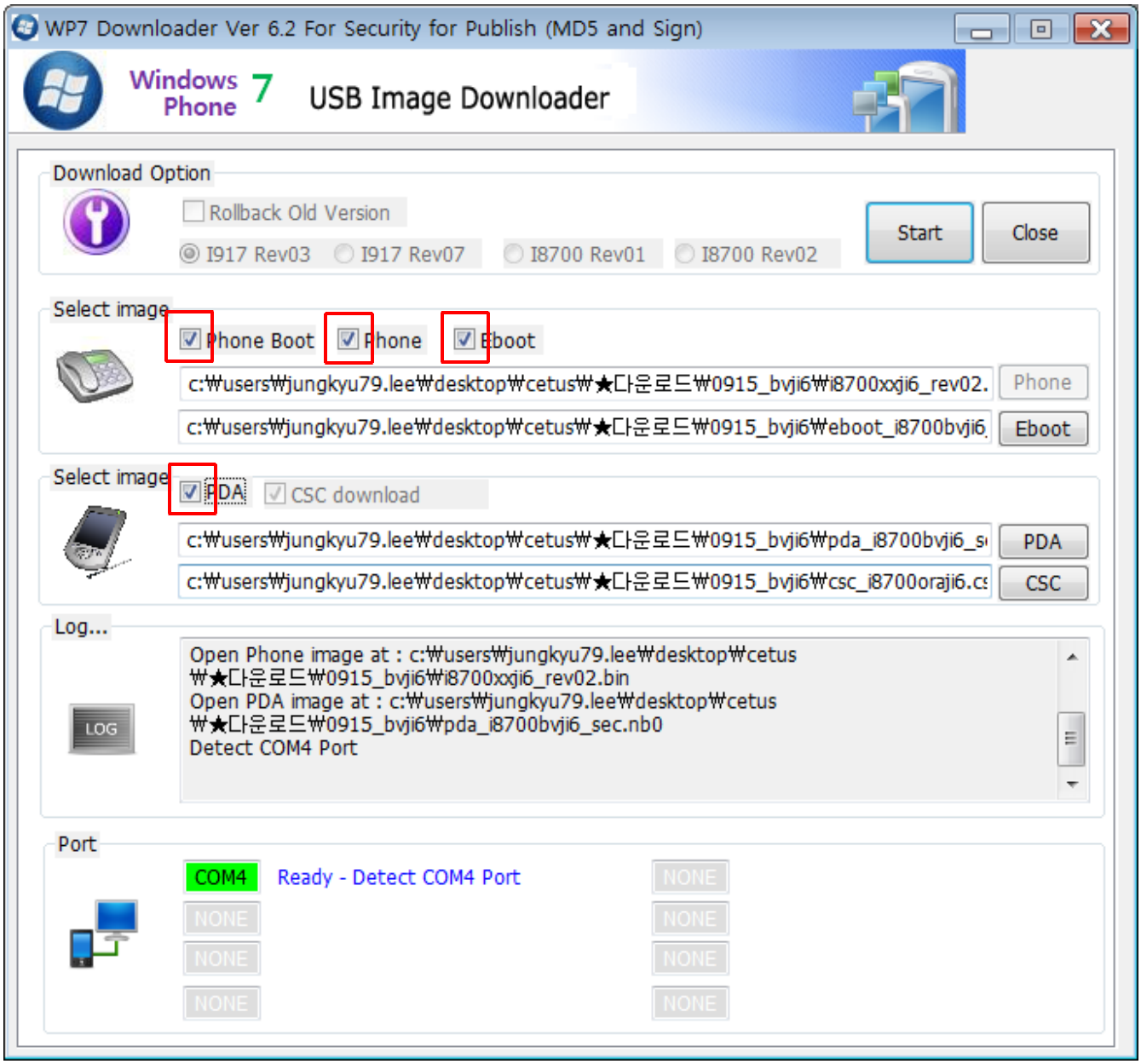


Fig. 6-6. Select the image download mode

3. Image Download

Once the GT-I8700 is connected to PC and the image files are opened successfully, you can start downloading by clicking 'start' button.

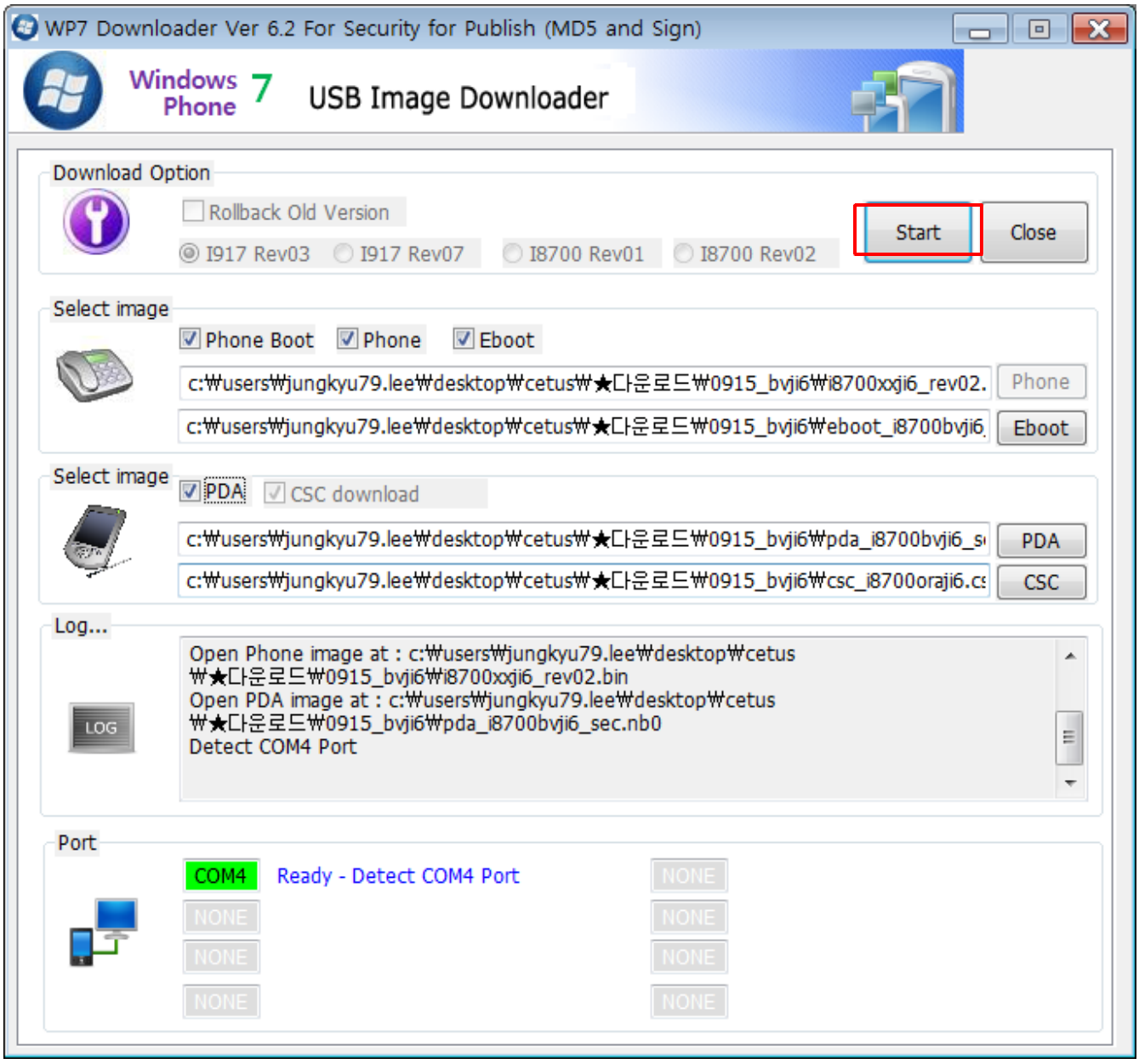


Fig. 6-7. Click start button for starting download

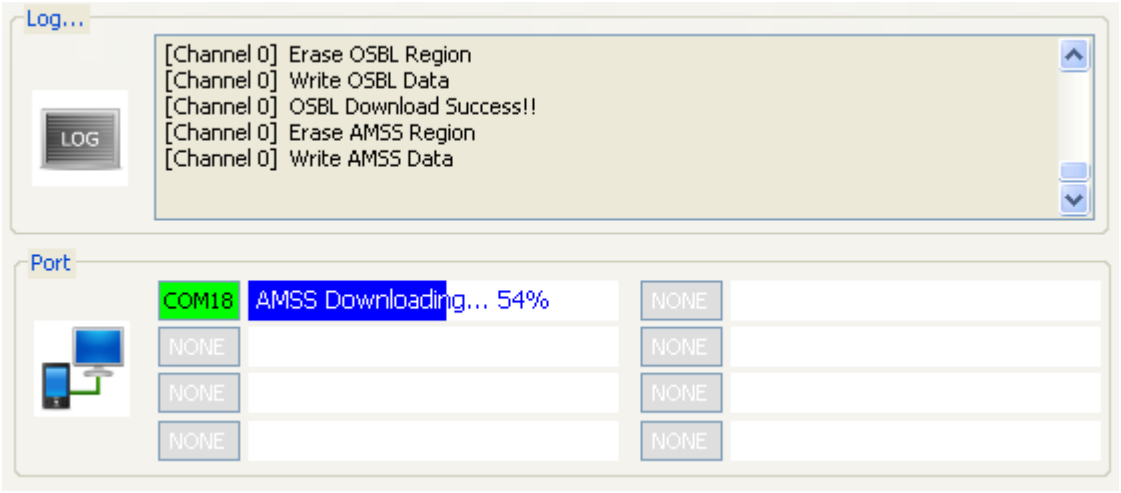


Fig. 6-8. Image downloading.

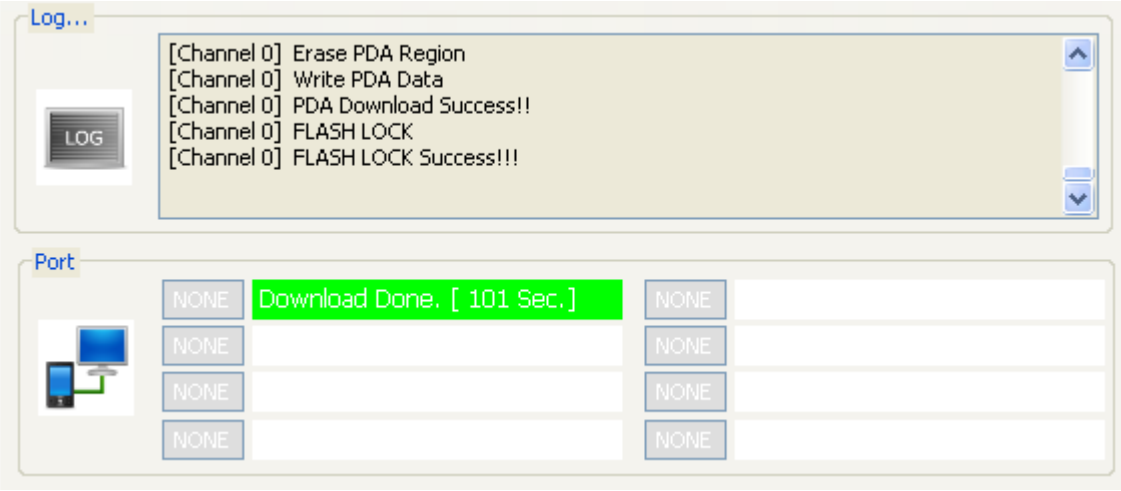


Fig. 6-9. Image downloading complete.

In the middle of downloading,
the progress information of downloading is shown up in the “Log” window.
After finishing download, please make sure that you hard-reset the device.

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 specipicty of cellular phone is sensitive for surrounding interference(RF noise).

- Be careful to use a kind of magnetic object or tool, because performance of parts is damaged by the influence of magnetic force.

- Surely use a standard screwdriver when you disassemble this product, otherwise screw will be worn away.

- Use a thicken twisted wire when you measure level.
  A thicken twisted wire has low resistance, therefore error of measurement is few.

- Repair after separate Test Pack and Set because for short danger (for example an overcurrent and furious flames of parts etc) when you repair board in condition of connecting Test Pack and tuning on.

- Take specially care of soldering, because Land of PCB is small and weak in heat.

- Surely tune on/off while using AC power plug, because a repair of battery charger is dangerous when tuning ON/OFF PBA and Connector after disassembling charger.

- Don't use as you pleases after change other material than replacement registered on SEC System. Otherwise engineer in charge isn't charged with problem that you don't keep this rules.

1-2. ESD(Electrostatically Sensitive Devices) Precaution

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

- Remove static electricity remained your body before you touch semiconductor or parts with semiconductor. There are ways that you touch an earthed place or wear static electricity prevention string on wrist.

- Use earthed soldering steel when you connect or disconnect ESD.

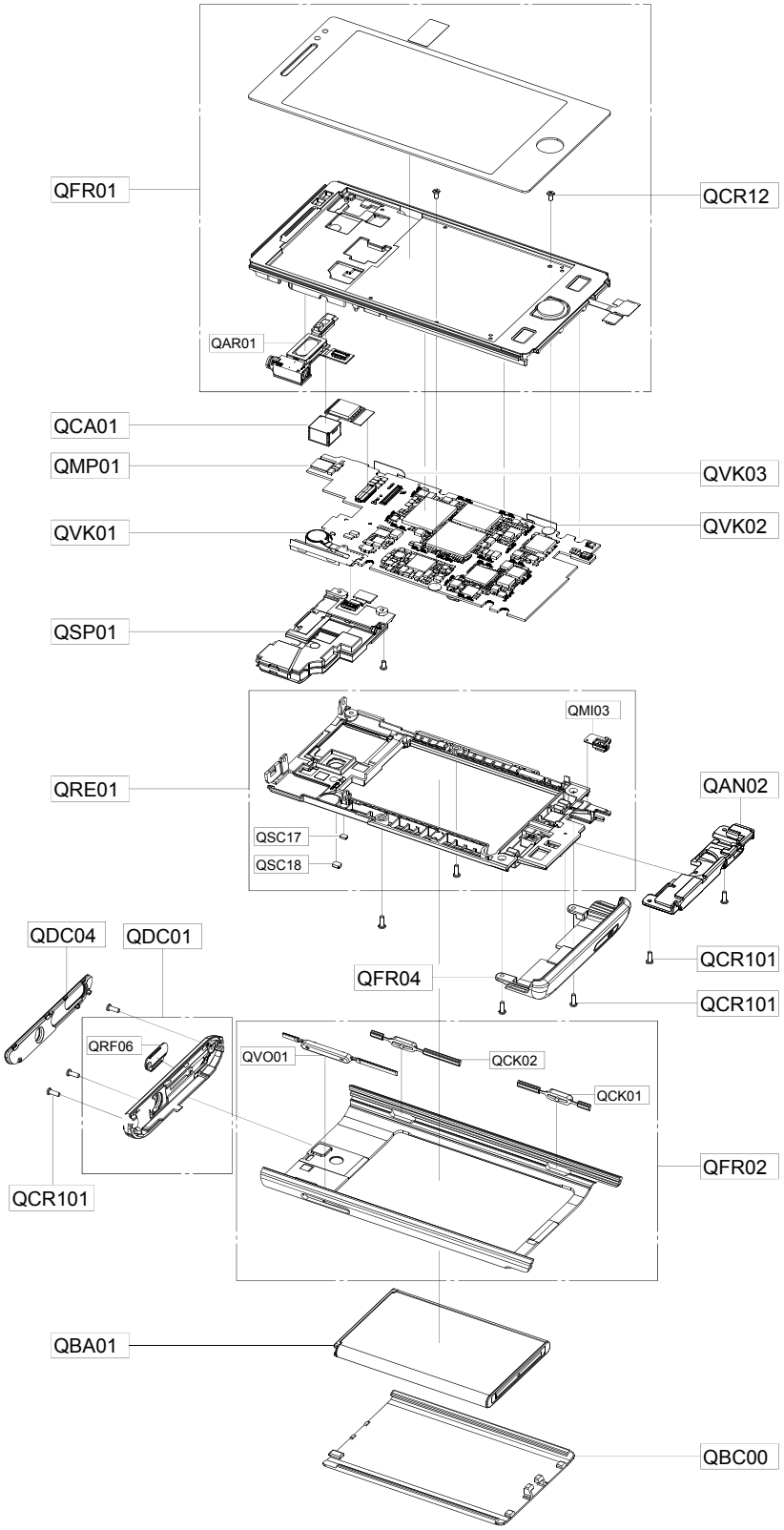
- Use soldering removing tool to break static electricity. , otherwise ESD will be damaged by static electricity.

- Don't unpack until you set up ESD on product. Because most of ESD are packed by box and aluminum plate to have conductive power,they are prevented from static electricity.

- You must maintain electric contact between ESD and place due to be set up until ESD is connected completely to the proper place or a circuit board.

4. Exploded View and Parts List

4-1. Cellular phone Exploded View



5. MAIN Electrical Parts List

SEC CODE	Design LOC	Discription
0403-001688	ZD705	DIODE-ZENER
0404-001172	D400	DIODE-SCHOTTKY
0404-001250	D520	DIODE-SCHOTTKY
0404-001514	ZD800	DIODE-SCHOTTKY
0406-001223	ZD522	DIODE-TVS
0406-001223	ZD600	DIODE-TVS
0406-001223	ZD601	DIODE-TVS
0406-001223	ZD700	DIODE-TVS
0406-001223	ZD701	DIODE-TVS
0406-001223	ZD702	DIODE-TVS
0406-001223	ZD706	DIODE-TVS
0406-001369	U602	DIODE-TVS
0406-001413	ZD520	DIODE-TVS
0406-001413	ZD521	DIODE-TVS
0406-001413	ZD523	DIODE-TVS
0406-001413	ZD524	DIODE-TVS
0406-001413	ZD525	DIODE-TVS
0406-001413	ZD526	DIODE-TVS
0406-001413	ZD527	DIODE-TVS
0407-001002	D401	DIODE-ARRAY
0501-000225	TR403	TR-SMALL SIGNAL
0504-000168	TR401	TR-DIGITAL
0505-001995	TR402	FET-SILICON
0505-002703	TR400	FET-SILICON
0801-003013	U801	IC-CMOS LOGIC
0801-003130	U221	IC-CMOS LOGIC
0801-003130	U222	IC-CMOS LOGIC
0801-003200	U802	IC-CMOS LOGIC
1001-001488	U606	IC-ANALOG SWITCH
1001-001645	U601	IC-ANALOG MULTIPLEX
1003-002047	U412	IC-MOTOR DRIVER
1107-001962	UME800	IC-FLASH MEMORY
1108-000369	UME801	IC-MCP
1201-002830	PAM101	IC-POWER AMP
1201-003057	PAM100	IC-POWER AMP
1201-003060	PAM102	IC-POWER AMP
1201-003134	U521	IC-AUDIO AMP
1201-003139	F220	IC-RF AMP

SEC CODE	Design LOC	Discription
1202-001068	U405	IC-VOLTAGE COMP.
1202-001079	U523	IC-VOLTAGE COMP.
1203-004644	U409	IC-POWER SUPERVISOR
1203-004792	U413	IC-POSI.FIXED REG.
1203-004793	U411	IC-POSI.FIXED REG.
1203-004802	U408	IC-POSI.FIXED REG.
1203-004806	U414	IC-POSI.FIXED REG.
1203-005069	U404	IC-POSI.FIXED REG.
1203-005092	U401	IC-POWER SUPERVISOR
1203-005396	U520	IC-POSI.FIXED REG.
1203-005396	U522	IC-POSI.FIXED REG.
1203-005503	U410	IC-DC/DC CONVERTER
1203-005512	U407	IC-POSI.FIXED REG.
1203-005772	U406	IC-VOL. DETECTOR
1203-006074	U400	IC-DC/DC CONVERTER
1203-006182	U604	IC-VOL. DETECTOR
1203-006372	U605	IC-RESET
1203-006638	U403	IC-POSI.FIXED REG.
1204-003176	U220	IC-TUNER
1205-003297	U101	IC-TRANSCEIVER
1205-004081	UCP800	IC-MODEM
1209-001766	U603	IC-SENSOR
1209-001877	U600	IC-SENSOR
1301-002012	U800	IC-FPGA
1404-001221	TH400	THERMISTOR-NTC
2007-000137	R850	R-CHIP
2007-000138	R424	R-CHIP
2007-000138	R534	R-CHIP
2007-000138	R600	R-CHIP
2007-000138	R606	R-CHIP
2007-000138	R607	R-CHIP
2007-000138	R611	R-CHIP
2007-000138	R613	R-CHIP
2007-000138	R707	R-CHIP
2007-000139	R400	R-CHIP
2007-000141	R813	R-CHIP
2007-000141	R819	R-CHIP
2007-000141	R820	R-CHIP

SEC CODE	Design LOC	Discription
2007-000141	R824	R-CHIP
2007-000141	R825	R-CHIP
2007-000141	R828	R-CHIP
2007-000141	R829	R-CHIP
2007-000141	R830	R-CHIP
2007-000141	R831	R-CHIP
2007-000141	R834	R-CHIP
2007-000141	R835	R-CHIP
2007-000143	R401	R-CHIP
2007-000147	R409	R-CHIP
2007-000148	R412	R-CHIP
2007-000148	R420	R-CHIP
2007-000148	R444	R-CHIP
2007-000148	R445	R-CHIP
2007-000148	R800	R-CHIP
2007-000148	R802	R-CHIP
2007-000148	R816	R-CHIP
2007-000148	R840	R-CHIP
2007-000148	R841	R-CHIP
2007-000151	R432	R-CHIP
2007-000152	R422	R-CHIP
2007-000156	R405	R-CHIP
2007-000156	R408	R-CHIP
2007-000157	R230	R-CHIP
2007-000157	R231	R-CHIP
2007-000157	R232	R-CHIP
2007-000157	R233	R-CHIP
2007-000157	R234	R-CHIP
2007-000162	R406	R-CHIP
2007-000162	R410	R-CHIP
2007-000162	R423	R-CHIP
2007-000162	R434	R-CHIP
2007-000162	R447	R-CHIP
2007-000162	R448	R-CHIP
2007-000162	R601	R-CHIP
2007-000162	R604	R-CHIP
2007-000162	R605	R-CHIP
2007-000162	R612	R-CHIP

SEC CODE	Design LOC	Discription
2007-000162	R704	R-CHIP
2007-000170	R535	R-CHIP
2007-000170	R536	R-CHIP
2007-000172	R220	R-CHIP
2007-000242	R826	R-CHIP
2007-000242	R827	R-CHIP
2007-001119	R223	R-CHIP
2007-001285	R102	R-CHIP
2007-001285	R104	R-CHIP
2007-001298	R100	R-CHIP
2007-001298	R101	R-CHIP
2007-001298	R414	R-CHIP
2007-001298	R415	R-CHIP
2007-001301	R531	R-CHIP
2007-001301	R533	R-CHIP
2007-001313	R224	R-CHIP
2007-002797	R522	R-CHIP
2007-003015	R602	R-CHIP
2007-003015	R603	R-CHIP
2007-003015	R610	R-CHIP
2007-007014	R416	R-CHIP
2007-007014	R803	R-CHIP
2007-007014	R804	R-CHIP
2007-007014	R805	R-CHIP
2007-007014	R806	R-CHIP
2007-007014	R807	R-CHIP
2007-007014	R808	R-CHIP
2007-007014	R809	R-CHIP
2007-007014	R810	R-CHIP
2007-007107	R225	R-CHIP
2007-007107	R609	R-CHIP
2007-007107	R703	R-CHIP
2007-007132	R439	R-CHIP
2007-007136	R700	R-CHIP
2007-007139	R419	R-CHIP
2007-007306	R226	R-CHIP
2007-007306	R229	R-CHIP
2007-007306	R402	R-CHIP

SEC CODE	Design LOC	Discription
2007-007306	R853	R-CHIP
2007-007307	R428	R-CHIP
2007-007307	R429	R-CHIP
2007-007318	R228	R-CHIP
2007-007318	R608	R-CHIP
2007-007468	R417	R-CHIP
2007-007480	R451	R-CHIP
2007-007528	R524	R-CHIP
2007-007529	R427	R-CHIP
2007-007538	R441	R-CHIP
2007-007573	R430	R-CHIP
2007-007589	R404	R-CHIP
2007-007590	R431	R-CHIP
2007-007698	R418	R-CHIP
2007-007798	R435	R-CHIP
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2007-007875	R450	R-CHIP
2007-008044	R114	R-CHIP
2007-008045	R113	R-CHIP
2007-008045	R115	R-CHIP
2007-008045	R116	R-CHIP
2007-008045	R532	R-CHIP
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2007-008046	R109	R-CHIP
2007-008047	R111	R-CHIP
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2007-008055	R527	R-CHIP
2007-008055	R615	R-CHIP
2007-008055	R811	R-CHIP
2007-008055	R848	R-CHIP
2007-008213	R440	R-CHIP
2007-008391	R855	R-CHIP
2007-008403	R438	R-CHIP

SEC CODE	Design LOC	Discription
2007-008403	R442	R-CHIP
2007-008403	R443	R-CHIP
2007-008403	R446	R-CHIP
2007-008419	R221	R-CHIP
2007-008420	R851	R-CHIP
2007-008486	R421	R-CHIP
2007-008516	R838	R-CHIP
2007-008588	R106	R-CHIP
2007-008588	R526	R-CHIP
2007-008588	R812	R-CHIP
2007-008739	R449	R-CHIP
2007-008780	R236	R-CHIP
2007-008780	R413	R-CHIP
2007-008798	R433	R-CHIP
2007-008806	R107	R-CHIP
2007-009155	R425	R-CHIP
2007-009157	R222	R-CHIP
2007-009157	R426	R-CHIP
2007-009157	R436	R-CHIP
2007-009201	R110	R-CHIP
2007-009212	R105	R-CHIP
2007-009420	R103	R-CHIP
2203-000233	C225	C-CER,CHIP
2203-000233	C246	C-CER,CHIP
2203-000233	C453	C-CER,CHIP
2203-000254	C231	C-CER,CHIP
2203-000254	C245	C-CER,CHIP
2203-000254	C464	C-CER,CHIP
2203-000254	C532	C-CER,CHIP
2203-000254	C534	C-CER,CHIP
2203-000254	C881	C-CER,CHIP
2203-000386	C528	C-CER,CHIP
2203-000386	C537	C-CER,CHIP
2203-000386	C542	C-CER,CHIP
2203-000425	C451	C-CER,CHIP
2203-000425	C452	C-CER,CHIP
2203-000438	C235	C-CER,CHIP
2203-000438	C447	C-CER,CHIP

SEC CODE	Design LOC	Discription
2203-000438	C479	C-CER,CHIP
2203-000438	C879	C-CER,CHIP
2203-000466	C184	C-CER,CHIP
2203-000466	C228	C-CER,CHIP
2203-000725	C480	C-CER,CHIP
2203-000812	C103	C-CER,CHIP
2203-000812	C112	C-CER,CHIP
2203-000812	C117	C-CER,CHIP
2203-000812	C118	C-CER,CHIP
2203-000812	C224	C-CER,CHIP
2203-000812	C700	C-CER,CHIP
2203-000812	C701	C-CER,CHIP
2203-000812	C702	C-CER,CHIP
2203-000812	C704	C-CER,CHIP
2203-000812	C905	C-CER,CHIP
2203-000995	C221	C-CER,CHIP
2203-001153	C529	C-CER,CHIP
2203-001153	C538	C-CER,CHIP
2203-001153	C543	C-CER,CHIP
2203-001383	C109	C-CER,CHIP
2203-001383	C201	C-CER,CHIP
2203-001383	C238	C-CER,CHIP
2203-001385	C175	C-CER,CHIP
2203-002668	C116	C-CER,CHIP
2203-002668	C177	C-CER,CHIP
2203-002668	C185	C-CER,CHIP
2203-002668	C191	C-CER,CHIP
2203-002677	C180	C-CER,CHIP
2203-002709	C540	C-CER,CHIP
2203-002709	C541	C-CER,CHIP
2203-002709	C545	C-CER,CHIP
2203-002709	C554	C-CER,CHIP
2203-002709	C886	C-CER,CHIP
2203-002709	C887	C-CER,CHIP
2203-005052	C226	C-CER,CHIP
2203-005056	C222	C-CER,CHIP
2203-005234	C189	C-CER,CHIP
2203-005682	C114	C-CER,CHIP

SEC CODE	Design LOC	Discription
2203-005682	C140	C-CER,CHIP
2203-005682	C142	C-CER,CHIP
2203-005682	C143	C-CER,CHIP
2203-005682	C144	C-CER,CHIP
2203-005682	C145	C-CER,CHIP
2203-005682	C147	C-CER,CHIP
2203-005682	C173	C-CER,CHIP
2203-005682	C183	C-CER,CHIP
2203-005682	C195	C-CER,CHIP
2203-005682	C206	C-CER,CHIP
2203-005719	C901	C-CER,CHIP
2203-005725	C101	C-CER,CHIP
2203-005725	C104	C-CER,CHIP
2203-005725	C120	C-CER,CHIP
2203-005725	C125	C-CER,CHIP
2203-005725	C127	C-CER,CHIP
2203-005725	C136	C-CER,CHIP
2203-005725	C156	C-CER,CHIP
2203-005725	C159	C-CER,CHIP
2203-005725	C160	C-CER,CHIP
2203-005725	C161	C-CER,CHIP
2203-005725	C164	C-CER,CHIP
2203-005725	C165	C-CER,CHIP
2203-005727	C174	C-CER,CHIP
2203-005732	C123	C-CER,CHIP
2203-005732	C131	C-CER,CHIP
2203-005736	C100	C-CER,CHIP
2203-005736	C119	C-CER,CHIP
2203-005736	C122	C-CER,CHIP
2203-005736	C137	C-CER,CHIP
2203-005736	C150	C-CER,CHIP
2203-005736	C151	C-CER,CHIP
2203-005736	C155	C-CER,CHIP
2203-005736	C158	C-CER,CHIP
2203-005736	C162	C-CER,CHIP
2203-005736	C204	C-CER,CHIP
2203-005736	C424	C-CER,CHIP
2203-005740	C129	C-CER,CHIP

SEC CODE	Design LOC	Discription
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2203-005777	C197	C-CER,CHIP
2203-005777	C199	C-CER,CHIP
2203-005779	C194	C-CER,CHIP
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2203-005789	C141	C-CER,CHIP
2203-005792	C135	C-CER,CHIP
2203-005792	C146	C-CER,CHIP
2203-005806	C107	C-CER,CHIP
2203-005806	C170	C-CER,CHIP
2203-005806	C192	C-CER,CHIP
2203-005806	C207	C-CER,CHIP
2203-005806	U805	C-CER,CHIP
2203-006047	C902	C-CER,CHIP
2203-006048	C233	C-CER,CHIP
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2203-006048	C407	C-CER,CHIP
2203-006048	C408	C-CER,CHIP
2203-006048	C409	C-CER,CHIP
2203-006048	C410	C-CER,CHIP
2203-006048	C411	C-CER,CHIP
2203-006048	C414	C-CER,CHIP
2203-006048	C426	C-CER,CHIP
2203-006048	C448	C-CER,CHIP
2203-006048	C450	C-CER,CHIP
2203-006048	C470	C-CER,CHIP
2203-006048	C520	C-CER,CHIP
2203-006048	C522	C-CER,CHIP
2203-006048	C602	C-CER,CHIP
2203-006048	C603	C-CER,CHIP
2203-006048	C607	C-CER,CHIP
2203-006048	C608	C-CER,CHIP

SEC CODE	Design LOC	Discription
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2203-006048	C800	C-CER,CHIP
2203-006048	C801	C-CER,CHIP
2203-006048	C802	C-CER,CHIP
2203-006048	C815	C-CER,CHIP
2203-006048	C842	C-CER,CHIP
2203-006048	C849	C-CER,CHIP
2203-006048	C850	C-CER,CHIP
2203-006048	C851	C-CER,CHIP
2203-006048	C856	C-CER,CHIP
2203-006048	C857	C-CER,CHIP
2203-006048	C863	C-CER,CHIP
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2203-006048	C870	C-CER,CHIP
2203-006048	C873	C-CER,CHIP
2203-006048	C875	C-CER,CHIP
2203-006048	C877	C-CER,CHIP
2203-006048	C882	C-CER,CHIP
2203-006048	C885	C-CER,CHIP
2203-006048	C895	C-CER,CHIP
2203-006048	C896	C-CER,CHIP
2203-006048	C899	C-CER,CHIP
2203-006048	C900	C-CER,CHIP
2203-006048	C903	C-CER,CHIP
2203-006048	C906	C-CER,CHIP
2203-006123	C133	C-CER,CHIP
2203-006123	C134	C-CER,CHIP
2203-006194	C108	C-CER,CHIP
2203-006194	C130	C-CER,CHIP
2203-006194	C198	C-CER,CHIP
2203-006194	C209	C-CER,CHIP
2203-006208	C420	C-CER,CHIP
2203-006257	C466	C-CER,CHIP
2203-006257	C467	C-CER,CHIP
2203-006257	C489	C-CER,CHIP
2203-006257	C490	C-CER,CHIP
2203-006260	C874	C-CER,CHIP

SEC CODE	Design LOC	Discription
2203-006348	C454	C-CER,CHIP
2203-006348	C486	C-CER,CHIP
2203-006399	C220	C-CER,CHIP
2203-006399	C223	C-CER,CHIP
2203-006399	C440	C-CER,CHIP
2203-006399	C441	C-CER,CHIP
2203-006399	C449	C-CER,CHIP
2203-006399	C455	C-CER,CHIP
2203-006399	C463	C-CER,CHIP
2203-006399	C465	C-CER,CHIP
2203-006399	C484	C-CER,CHIP
2203-006399	C803	C-CER,CHIP
2203-006399	C804	C-CER,CHIP
2203-006399	C805	C-CER,CHIP
2203-006399	C806	C-CER,CHIP
2203-006399	C807	C-CER,CHIP
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2203-006399	C809	C-CER,CHIP
2203-006399	C810	C-CER,CHIP
2203-006399	C811	C-CER,CHIP
2203-006399	C824	C-CER,CHIP
2203-006399	C828	C-CER,CHIP
2203-006399	C838	C-CER,CHIP
2203-006399	C843	C-CER,CHIP
2203-006399	C844	C-CER,CHIP
2203-006399	C852	C-CER,CHIP
2203-006399	C853	C-CER,CHIP
2203-006399	C854	C-CER,CHIP
2203-006399	C855	C-CER,CHIP
2203-006399	C858	C-CER,CHIP
2203-006399	C865	C-CER,CHIP
2203-006399	C866	C-CER,CHIP
2203-006399	C867	C-CER,CHIP
2203-006399	C876	C-CER,CHIP
2203-006399	C878	C-CER,CHIP
2203-006399	C880	C-CER,CHIP
2203-006399	C883	C-CER,CHIP
2203-006399	C884	C-CER,CHIP

SEC CODE	Design LOC	Discription
2203-006399	C888	C-CER,CHIP
2203-006399	C889	C-CER,CHIP
2203-006399	C890	C-CER,CHIP
2203-006399	C891	C-CER,CHIP
2203-006399	C892	C-CER,CHIP
2203-006399	C893	C-CER,CHIP
2203-006399	C894	C-CER,CHIP
2203-006423	C105	C-CER,CHIP
2203-006423	C115	C-CER,CHIP
2203-006423	C121	C-CER,CHIP
2203-006423	C124	C-CER,CHIP
2203-006423	C126	C-CER,CHIP
2203-006423	C128	C-CER,CHIP
2203-006423	C152	C-CER,CHIP
2203-006423	C154	C-CER,CHIP
2203-006423	C157	C-CER,CHIP
2203-006423	C163	C-CER,CHIP
2203-006423	C208	C-CER,CHIP
2203-006423	C812	C-CER,CHIP
2203-006423	C813	C-CER,CHIP
2203-006423	C814	C-CER,CHIP
2203-006423	C816	C-CER,CHIP
2203-006423	C817	C-CER,CHIP
2203-006423	C818	C-CER,CHIP
2203-006423	C819	C-CER,CHIP
2203-006423	C820	C-CER,CHIP
2203-006423	C821	C-CER,CHIP
2203-006423	C822	C-CER,CHIP
2203-006423	C823	C-CER,CHIP
2203-006423	C825	C-CER,CHIP
2203-006423	C826	C-CER,CHIP
2203-006423	C827	C-CER,CHIP
2203-006423	C839	C-CER,CHIP
2203-006423	C840	C-CER,CHIP
2203-006423	C841	C-CER,CHIP
2203-006423	C845	C-CER,CHIP
2203-006423	C847	C-CER,CHIP
2203-006423	C848	C-CER,CHIP

SEC CODE	Design LOC	Discription
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2203-006423	C860	C-CER,CHIP
2203-006423	C861	C-CER,CHIP
2203-006423	C868	C-CER,CHIP
2203-006423	C869	C-CER,CHIP
2203-006423	C898	C-CER,CHIP
2203-006562	C229	C-CER,CHIP
2203-006562	C230	C-CER,CHIP
2203-006562	C232	C-CER,CHIP
2203-006562	C241	C-CER,CHIP
2203-006562	C412	C-CER,CHIP
2203-006562	C417	C-CER,CHIP
2203-006562	C418	C-CER,CHIP
2203-006562	C419	C-CER,CHIP
2203-006562	C421	C-CER,CHIP
2203-006562	C422	C-CER,CHIP
2203-006562	C423	C-CER,CHIP
2203-006562	C457	C-CER,CHIP
2203-006562	C488	C-CER,CHIP
2203-006562	C526	C-CER,CHIP
2203-006562	C527	C-CER,CHIP
2203-006562	C533	C-CER,CHIP
2203-006562	C535	C-CER,CHIP
2203-006562	C536	C-CER,CHIP
2203-006562	C539	C-CER,CHIP
2203-006562	C600	C-CER,CHIP
2203-006611	C168	C-CER,CHIP
2203-006611	C171	C-CER,CHIP
2203-006611	C178	C-CER,CHIP
2203-006647	C210	C-CER,CHIP
2203-006668	C897	C-CER,CHIP
2203-006681	C482	C-CER,CHIP
2203-006681	C606	C-CER,CHIP
2203-006712	C138	C-CER,CHIP
2203-006712	C139	C-CER,CHIP
2203-006824	C483	C-CER,CHIP
2203-006841	C471	C-CER,CHIP
2203-006841	C475	C-CER,CHIP

SEC CODE	Design LOC	Discription
2203-006841	C485	C-CER,CHIP
2203-006841	C525	C-CER,CHIP
2203-006841	C601	C-CER,CHIP
2203-006841	C609	C-CER,CHIP
2203-006844	C530	C-CER,CHIP
2203-006844	C531	C-CER,CHIP
2203-006846	C179	C-CER,CHIP
2203-006872	C427	C-CER,CHIP
2203-006872	C428	C-CER,CHIP
2203-006872	C429	C-CER,CHIP
2203-006872	C430	C-CER,CHIP
2203-006872	C431	C-CER,CHIP
2203-006872	C433	C-CER,CHIP
2203-006872	C436	C-CER,CHIP
2203-006872	C437	C-CER,CHIP
2203-006872	C438	C-CER,CHIP
2203-006872	C439	C-CER,CHIP
2203-006872	C443	C-CER,CHIP
2203-006872	C476	C-CER,CHIP
2203-006872	C477	C-CER,CHIP
2203-006872	C705	C-CER,CHIP
2203-006872	C829	C-CER,CHIP
2203-006872	C830	C-CER,CHIP
2203-006872	C831	C-CER,CHIP
2203-006872	C832	C-CER,CHIP
2203-006872	C833	C-CER,CHIP
2203-006872	C834	C-CER,CHIP
2203-006872	C835	C-CER,CHIP
2203-006872	C836	C-CER,CHIP
2203-006872	C837	C-CER,CHIP
2203-006872	C862	C-CER,CHIP
2203-006872	C871	C-CER,CHIP
2203-006872	C872	C-CER,CHIP
2203-006890	C446	C-CER,CHIP
2203-006978	C605	C-CER,CHIP
2203-007147	C462	C-CER,CHIP
2203-007147	C473	C-CER,CHIP
2203-007240	C444	C-CER,CHIP

SEC CODE	Design LOC	Discription
2203-007270	C190	C-CER,CHIP
2203-007271	C461	C-CER,CHIP
2203-007271	C468	C-CER,CHIP
2203-007271	C469	C-CER,CHIP
2203-007271	C904	C-CER,CHIP
2203-007279	C234	C-CER,CHIP
2203-007317	C153	C-CER,CHIP
2203-007317	C237	C-CER,CHIP
2203-007317	C242	C-CER,CHIP
2203-007317	C243	C-CER,CHIP
2203-007317	C244	C-CER,CHIP
2203-007317	C402	C-CER,CHIP
2203-007317	C403	C-CER,CHIP
2203-007317	C413	C-CER,CHIP
2203-007317	C434	C-CER,CHIP
2203-007317	C435	C-CER,CHIP
2203-007317	C442	C-CER,CHIP
2203-007317	C445	C-CER,CHIP
2203-007317	C456	C-CER,CHIP
2203-007317	C491	C-CER,CHIP
2203-007385	C148	C-CER,CHIP
2203-007393	C415	C-CER,CHIP
2203-007393	C416	C-CER,CHIP
2203-007393	C432	C-CER,CHIP
2203-007393	C478	C-CER,CHIP
2203-007393	C706	C-CER,CHIP
2404-001381	C167	C-TA,CHIP
2404-001381	C169	C-TA,CHIP
2404-001381	C400	C-TA,CHIP
2404-001381	C401	C-TA,CHIP
2404-001381	C472	C-TA,CHIP
2404-001381	C474	C-TA,CHIP
2404-001381	C481	C-TA,CHIP
2404-001381	C604	C-TA,CHIP
2404-001506	TA700	C-TA,CHIP
2404-001516	C425	C-TA,CHIP
2404-001561	C521	C-TA,CHIP
2404-001561	TA520	C-TA,CHIP

SEC CODE	Design LOC	Discription
2404-001561	TA521	C-TA,CHIP
2703-001728	L121	INDUCTOR-SMD
2703-001734	L113	INDUCTOR-SMD
2703-001750	L114	INDUCTOR-SMD
2703-001750	L122	INDUCTOR-SMD
2703-001750	L125	INDUCTOR-SMD
2703-002170	L221	INDUCTOR-SMD
2703-002176	L131	INDUCTOR-SMD
2703-002176	L220	INDUCTOR-SMD
2703-002208	L128	INDUCTOR-SMD
2703-002313	L526	INDUCTOR-SMD
2703-002314	L100	INDUCTOR-SMD
2703-002367	L118	INDUCTOR-SMD
2703-002367	L129	INDUCTOR-SMD
2703-002793	L108	INDUCTOR-SMD
2703-002793	L123	INDUCTOR-SMD
2703-002793	L126	INDUCTOR-SMD
2703-002794	L115	INDUCTOR-SMD
2703-002842	L109	INDUCTOR-SMD
2703-002858	L110	INDUCTOR-SMD
2703-002858	L112	INDUCTOR-SMD
2703-002858	L124	INDUCTOR-SMD
2703-002901	L117	INDUCTOR-SMD
2703-002906	L111	INDUCTOR-SMD
2703-002906	L130	INDUCTOR-SMD
2703-002951	L116	INDUCTOR-SMD
2703-002999	L101	INDUCTOR-SMD
2703-002999	L104	INDUCTOR-SMD
2703-002999	L105	INDUCTOR-SMD
2703-002999	L107	INDUCTOR-SMD
2703-003009	L119	INDUCTOR-SMD
2703-003205	L407	INDUCTOR-SMD
2703-003205	L408	INDUCTOR-SMD
2703-003347	L409	INDUCTOR-SMD
2703-003685	L402	INDUCTOR-SMD
2703-003686	L400	INDUCTOR-SMD
2703-003686	L401	INDUCTOR-SMD
2703-003698	L223	INDUCTOR-SMD

SEC CODE	Design LOC	Discription
2703-003770	L403	INDUCTOR-SMD
2703-003770	L404	INDUCTOR-SMD
2703-003909	L405	INDUCTOR-SMD
2703-003909	L406	INDUCTOR-SMD
2801-004466	OSC400	CRYSTAL-SMD
2804-001772	OSC220	OSCILLATOR-CLOCK
2809-001341	OSC100	OSCILLATOR-VCTCXO
2901-001413	F700	FILTER-EMI SMD
2901-001413	F703	FILTER-EMI SMD
2901-001413	F704	FILTER-EMI SMD
2901-001413	F705	FILTER-EMI SMD
2901-001413	F706	FILTER-EMI SMD
2901-001413	F708	FILTER-EMI SMD
2901-001413	F709	FILTER-EMI SMD
2901-001469	F701	FILTER-EMI/ESD
2901-001469	F702	FILTER-EMI/ESD
2901-001469	F707	FILTER-EMI/ESD
2904-001739	F104	FILTER-SAW
2904-001756	F101	FILTER-SAW
2904-001785	F102	FILTER-SAW
2904-001789	F103	FILTER-SAW
2910-000065	DUF100	DUPLEXER-SAW
2910-000073	DUF101	DUPLEXER-SAW
2911-000139	F100	DUPLEXER-FEM
3003-001138	MIC520	MIC MEMS
3301-001729	L520	BEAD-SMD
3301-001756	L127	BEAD-SMD
3301-001812	L521	BEAD-SMD
3301-001812	L522	BEAD-SMD
3301-001885	L523	BEAD-SMD
3301-001885	L524	BEAD-SMD
3301-001885	L525	BEAD-SMD
3705-001731	RFS100	CONNECTOR-COAXIAL
3708-002162	HDC700	CONNECTOR-FPC/FFC/PIC
3711-006483	HDC701	HEADER-BOARD TO BOARD
3711-006615	HEA701	HEADER-BOARD TO BOARD
3711-007312	BTC700	CONNECTOR-HEADER
3711-007612	HDC520	HEADER-BOARD TO BOARD

SEC CODE	Design LOC	Discription
3711-007612	HEA700	HEADER-BOARD TO BOARD
3712-001348	ANT220	CONNECTOR-TERMINAL
3712-001348	ANT223	CONNECTOR-TERMINAL
3712-001361	ANT101	CONNECTOR-TERMINAL
3712-001361	ANT102	CONNECTOR-TERMINAL
3712-001361	ANT221	CONNECTOR-TERMINAL
3712-001361	ANT222	CONNECTOR-TERMINAL
3722-003065	IFC600	JACK-MINI USB
4302-001181	BAT400	BATTERY-LI(2ND)
4709-001844	MOD220	W-LAN MODULE
GH70-03349A	SC100	IPR SHIELD-CAN CLIP
GH70-03349A	SC101	IPR SHIELD-CAN CLIP
GH70-03349A	SC102	IPR SHIELD-CAN CLIP
GH70-03349A	SC103	IPR SHIELD-CAN CLIP
GH70-03349A	SC104	IPR SHIELD-CAN CLIP
GH70-03349A	SC105	IPR SHIELD-CAN CLIP
GH70-03349A	SC220	IPR SHIELD-CAN CLIP
GH70-03349A	SC221	IPR SHIELD-CAN CLIP
GH70-03349A	SC222	IPR SHIELD-CAN CLIP
GH70-03349A	SC223	IPR SHIELD-CAN CLIP
GH70-03349A	SC224	IPR SHIELD-CAN CLIP
GH70-03349A	SC225	IPR SHIELD-CAN CLIP
GH70-03349A	SC226	IPR SHIELD-CAN CLIP
GH70-03349A	SC227	IPR SHIELD-CAN CLIP
GH70-03349A	SC228	IPR SHIELD-CAN CLIP
GH70-03349A	SC229	IPR SHIELD-CAN CLIP

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

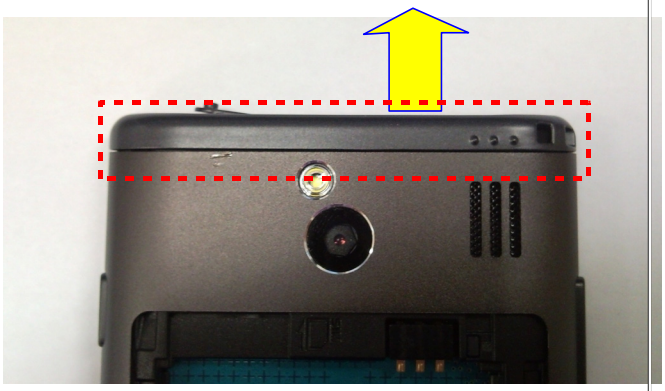
7. Level 2 Repair

7-1. Disassembly

1 1) Detach Top Deco.
2) Unscrew 3 Points.

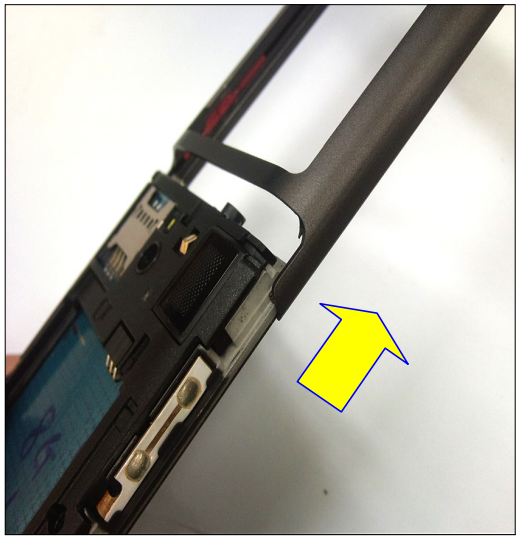
Caution
1) Be careful USB Port Cover not to be lost

2 1) Disassemble the Top Cover.



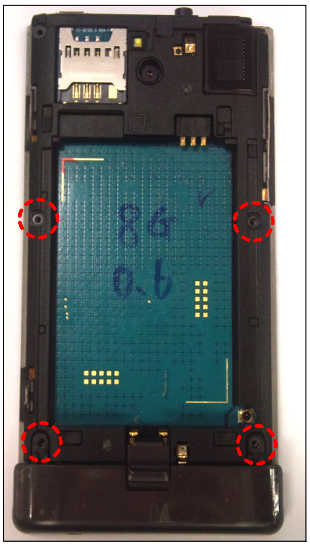
Caution
1) Be careful USB Port Cover not to be lost

3 1) Disassemble the Body Case.



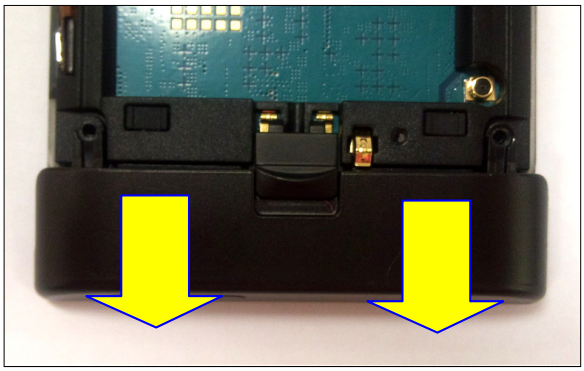
Caution
1) Slide up the Body Case following guide line on the Bracket

4 1) Unscrew 4 points.



Caution
1) Be careful RF connector not to be damaged when screwing.

5 1) Disassemble the Bottom Cover

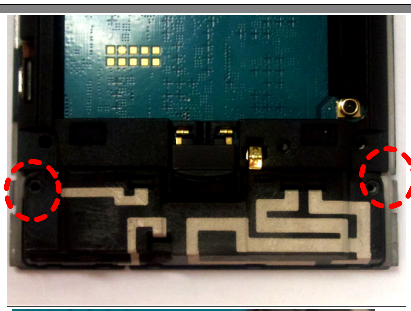


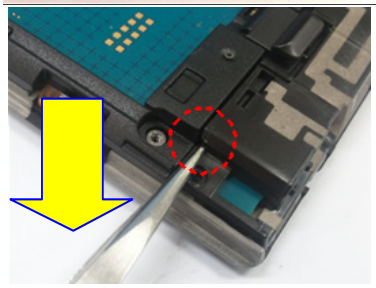
Caution

1) Be careful Antenna module not to be damaged.

6

1) Unscrew 2 points.
2) Disassemble the Antenna module.

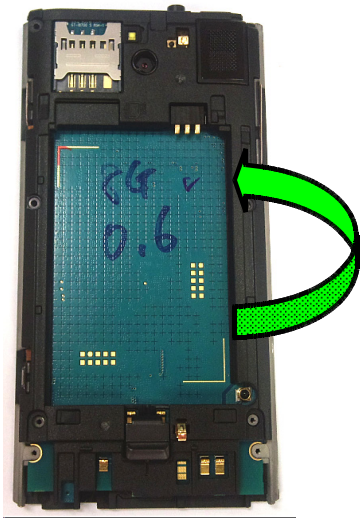




Caution

1) Be careful Antenna module not to be damaged.

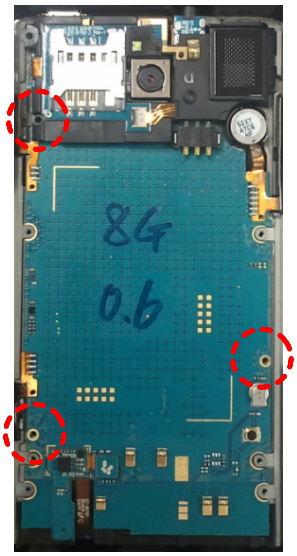
7 1) Disassemble the Rear



Caution

1) Be careful Antenna module not to be damaged.

8 1) Unscrew 4 points.

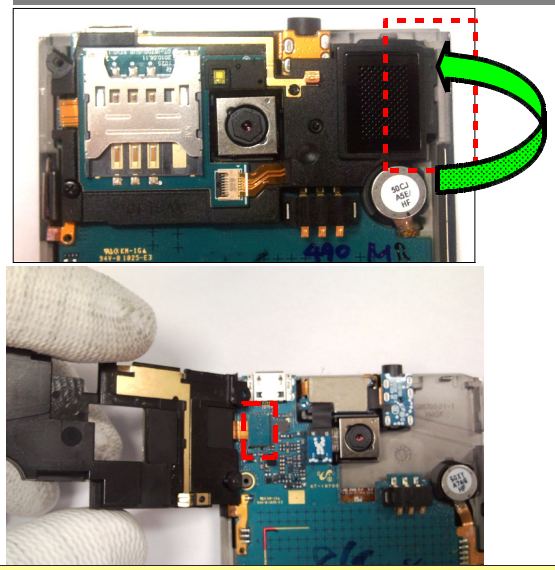


Caution

1) Be careful FPCB not to be Damaged

9

1) Disassemble SPK module from PBA
2) Disconnect SPK module FPCB from PBA.

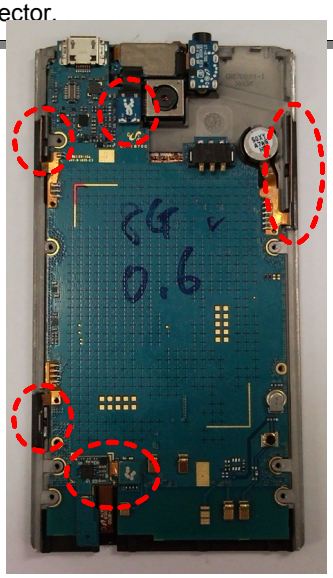


Caution

1) Be careful FPCB not to be damaged.

10

1) Detach the Volume, CAM Key FPCB
2) Detach Receiver, SUB Key FPCB Connector.

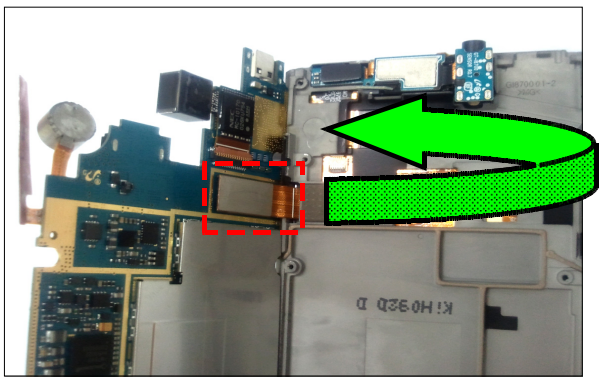


Caution

1) Be careful FPCB not to be damaged.

11

1) Disconnect OCTA FPCB connector.
2) Separate PBA with FRONT Ass'y.

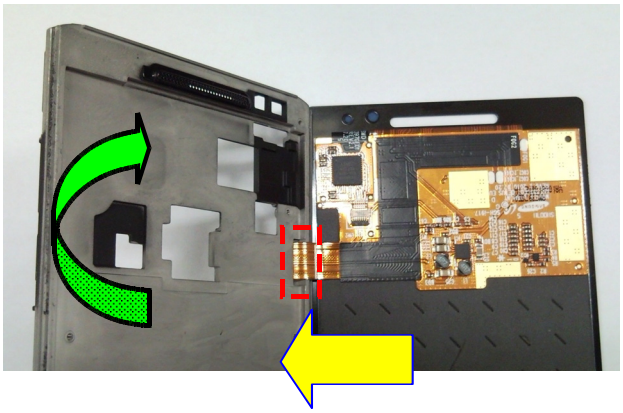


Caution

1) Be careful OCTA & FPCB not to damaged.

12

1) Disassemble the OCTA with Bracket

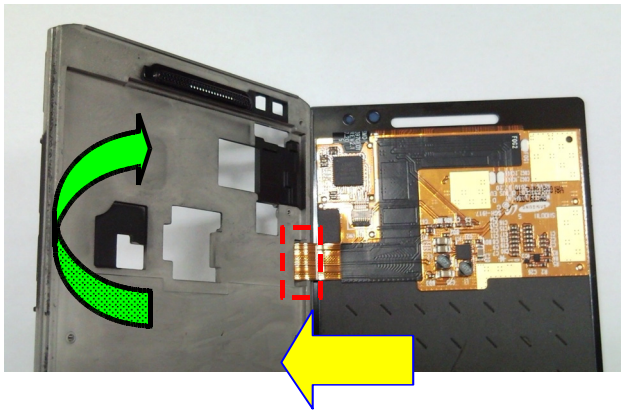


Caution

1) Be careful OCTA & FPCB not to damaged.

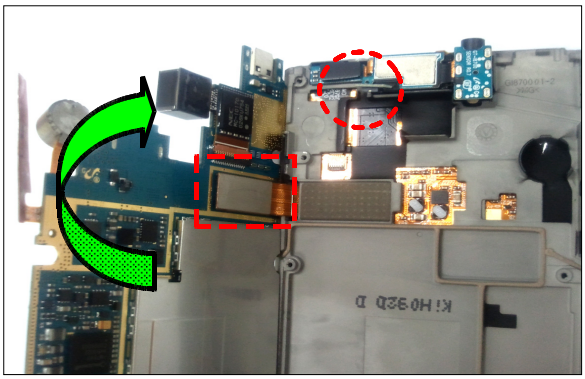
7-2. Assembly

1 1) Insert OCTA FPCB to the hole in the Bracket.
2) Assemble the OCTA with the Bracket.



Caution
1) Be careful OCTA & FPCB not to be damaged.

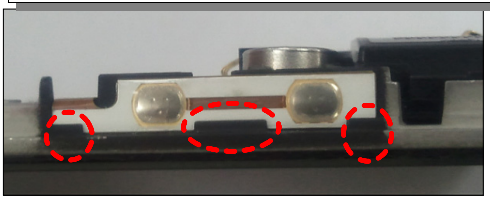
2 1) Connect OCTA FPCB to PBA.
2) Assemble PBA and FRONT Ass'y.

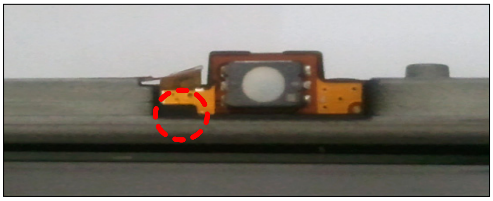


Caution
1) Be careful Receiver FPCB not to be got in between PBA and Bracket.

3 1) Connect Receiver, SUB Key FPCB Connector.

4 1) Attach the Volume, CAM Key FPCB on the Bracket.

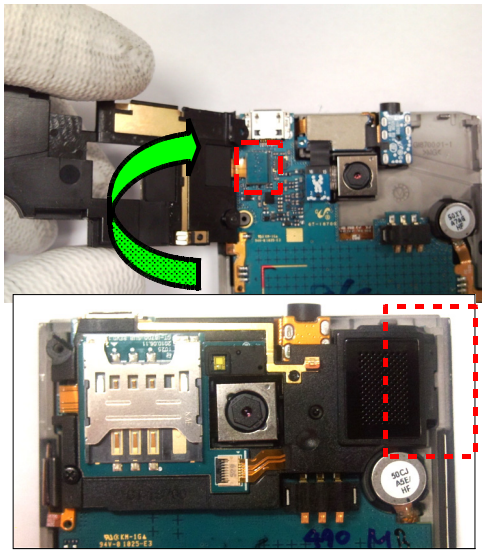




Caution
1) Check FPCB holding by guide on the Bracket.

5

1) Connect SPK module FPCB to PBA.
2) Assemble PBA and SPK module.

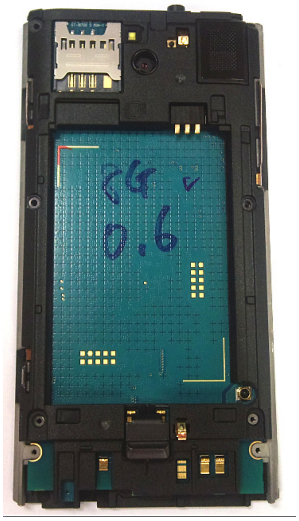


Caution

1) Check SPK module holding by guide on the Bracket.

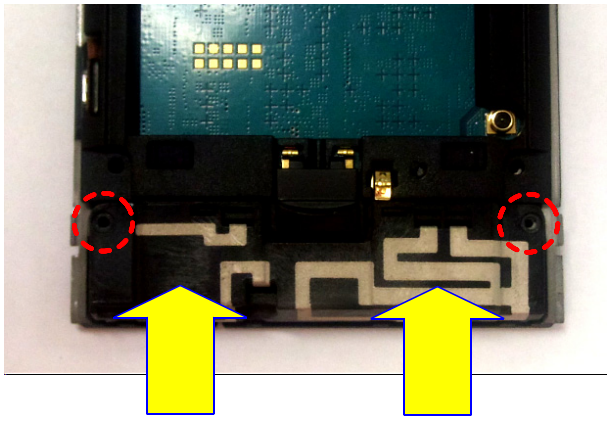
6

1) Assemble the Rear.



7

1) Assemble Antenna module
2) Screw 2 points.
 - 1.2 ± 0.1 kgf / cm

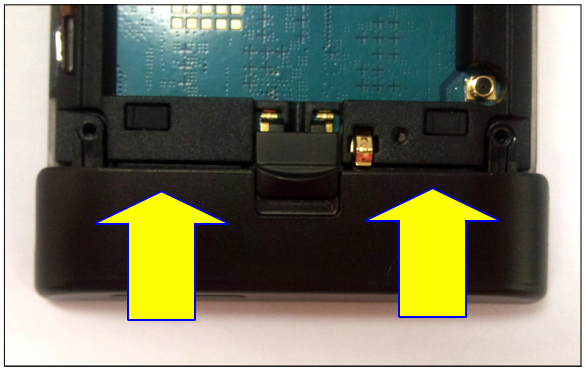


Caution

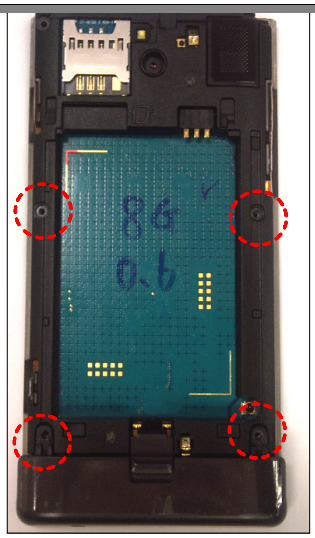
1) Assemble & Screw Antenna module only.
 Do not Screw on the Rear yet.

8

1)Assemble the Bottom Cover.

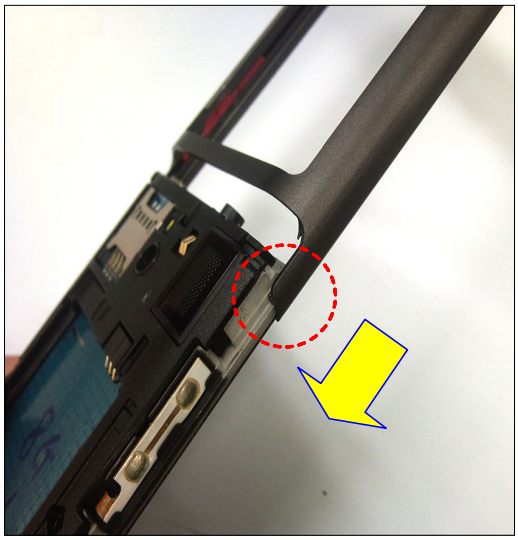


5 1) Screw 4 points.
- 1.2 ± 0.1 kgf / cm



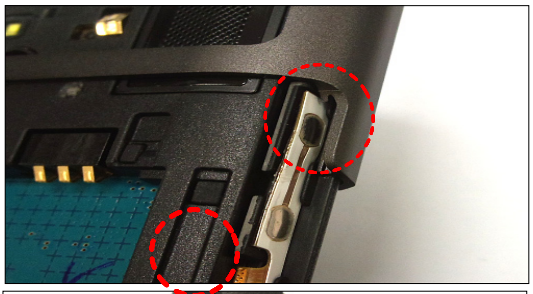
Caution
1) Be careful RF connector not to be damaged when screwing.

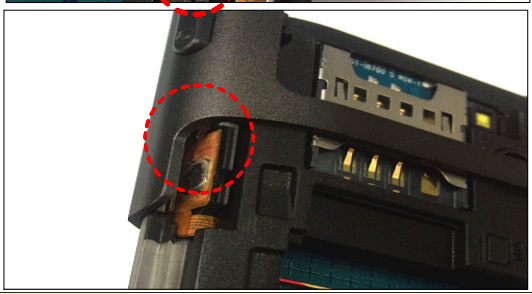
6 1) Assemble the Body Case.



Caution
1) Slide down the Body Case following guide line on the Bracket

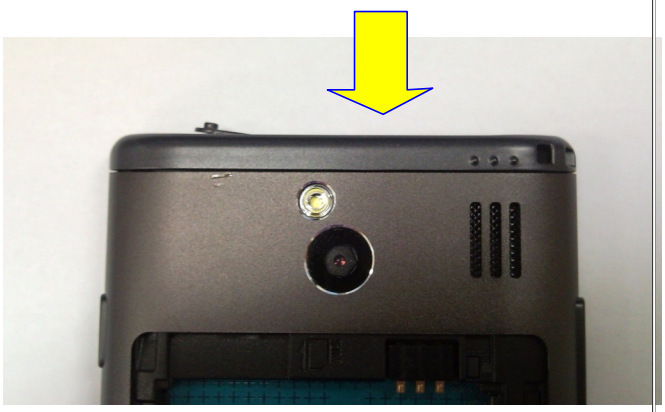
7 1) assemble the Case Body.





Caution
1) Be careful Key FPCB not to be damaged. when assembling with Body Case.

8 1) Assemble the Top Cover.



Caution
1) Be careful USB Port Cover not to be lost

9

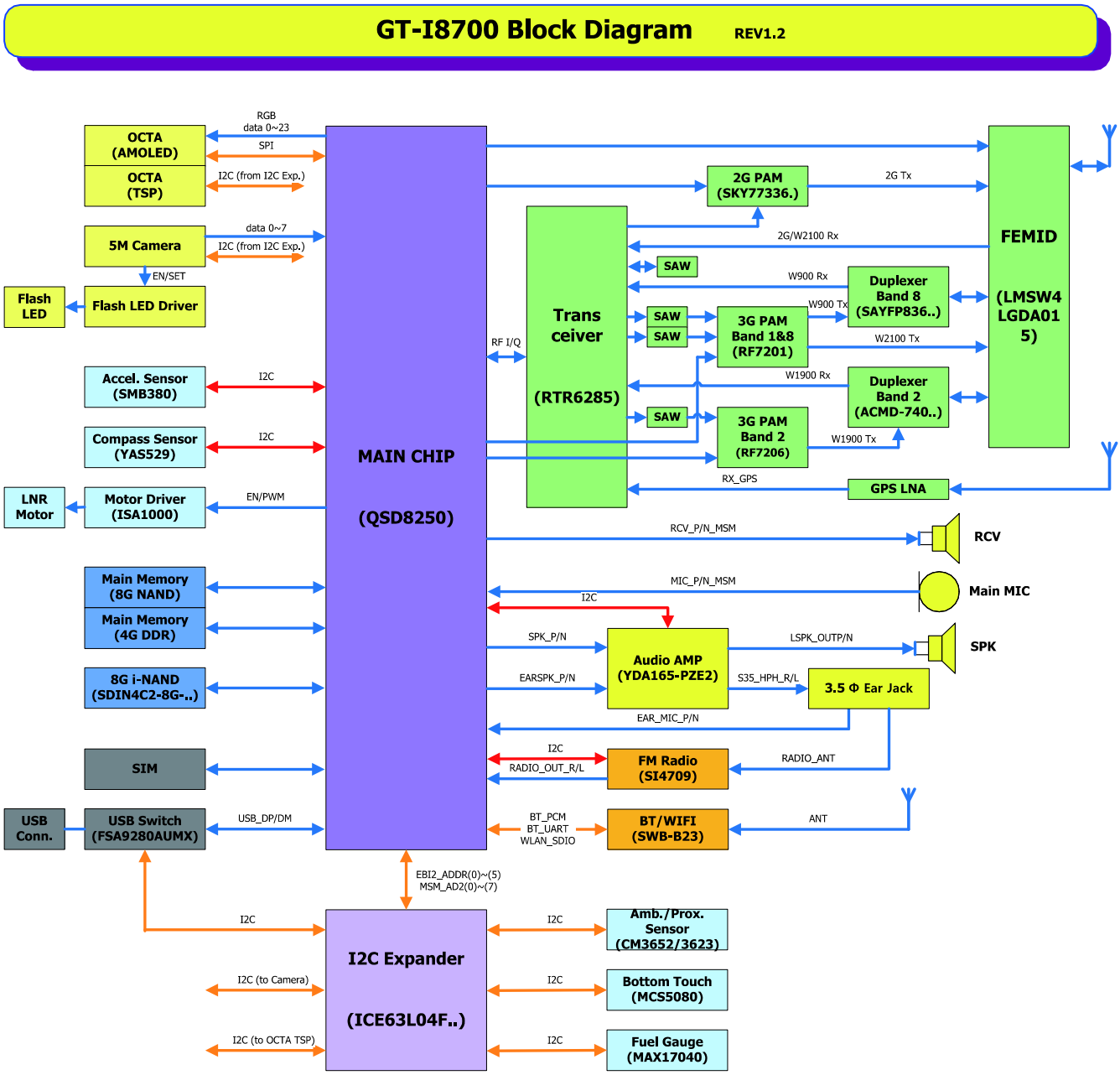
1) screw 3 points.
 - 1.2 ± 0.1 kgf / cm
2) Attach Top Deco.

Caution

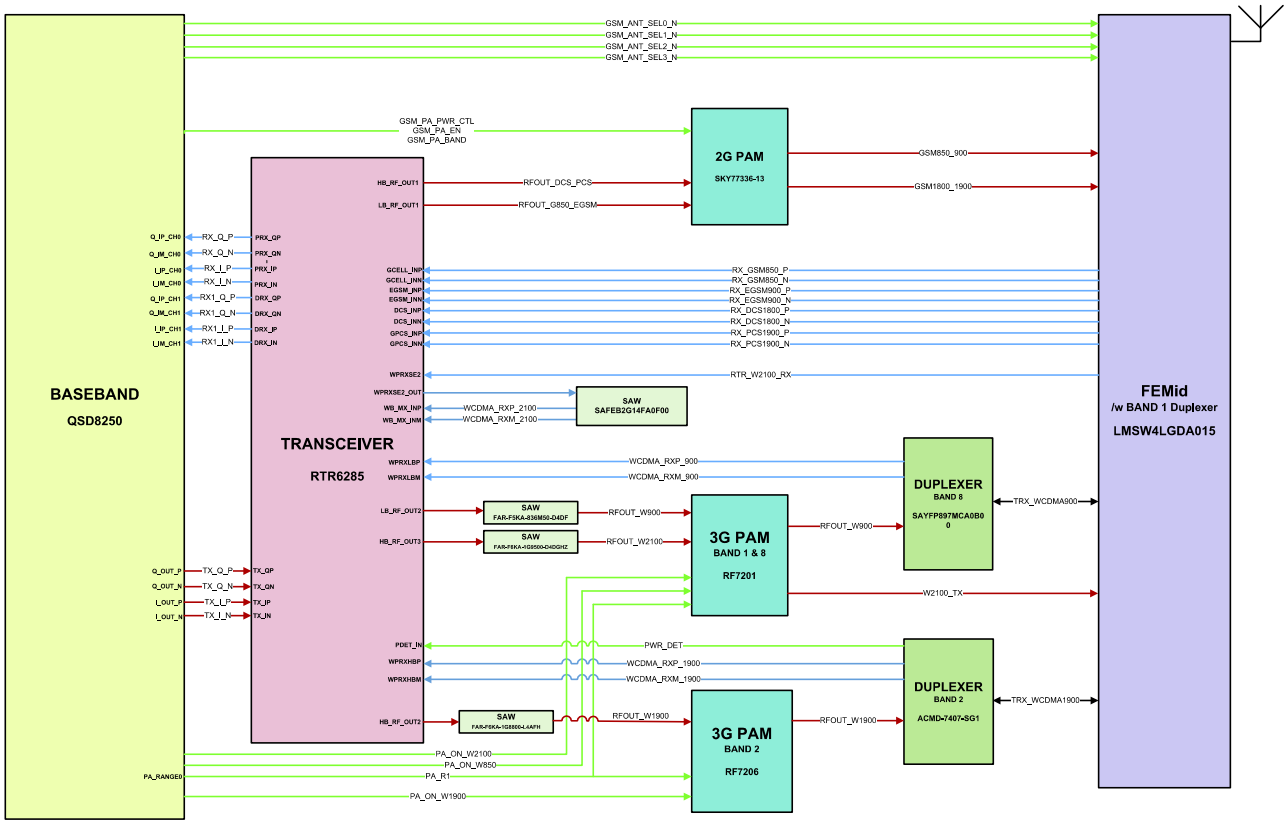
1) Be careful USB Port Cover not to be lost

8. Level 3 Repair

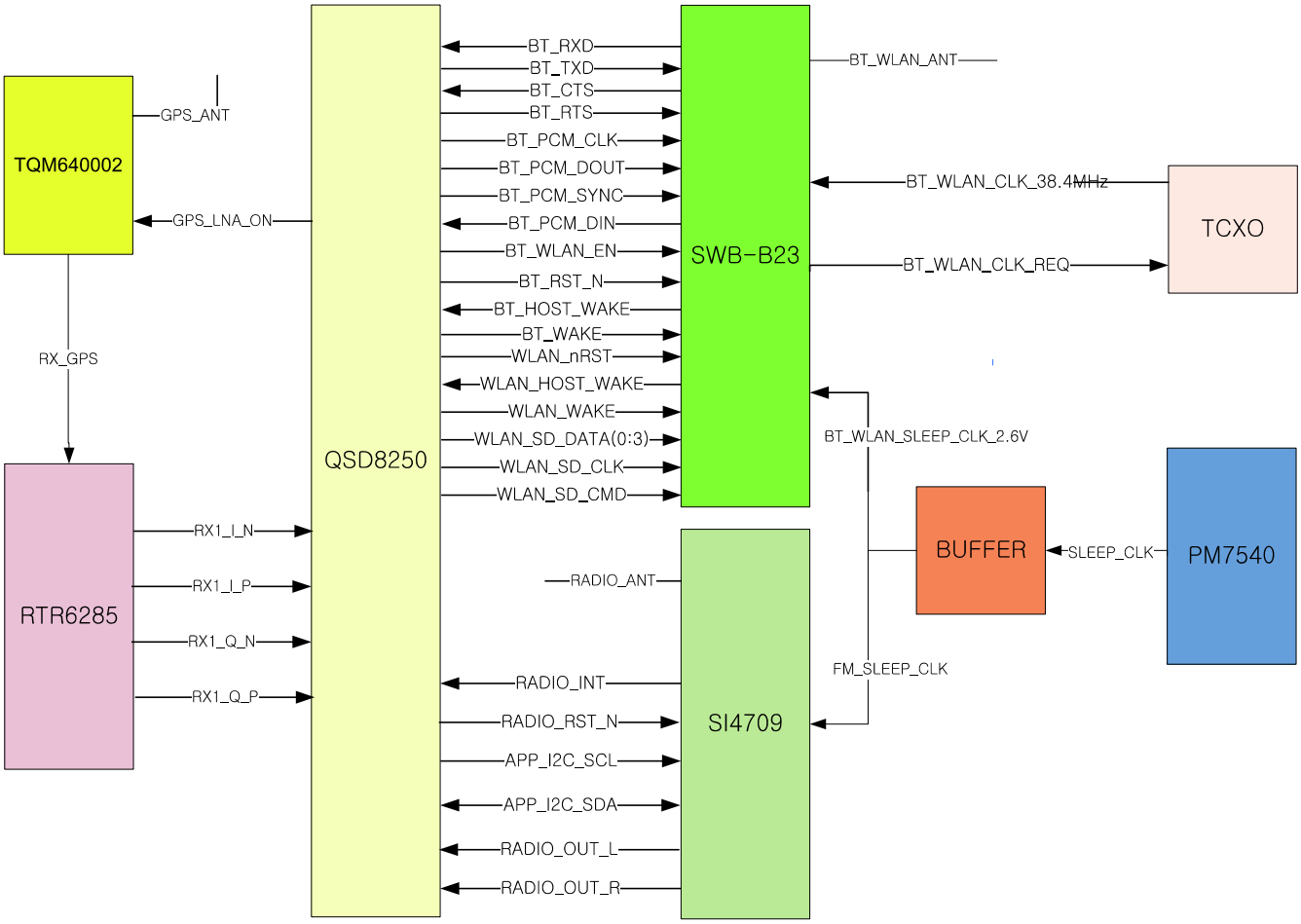
8-1. Block Diagram



GT-I8700 CETUS RF

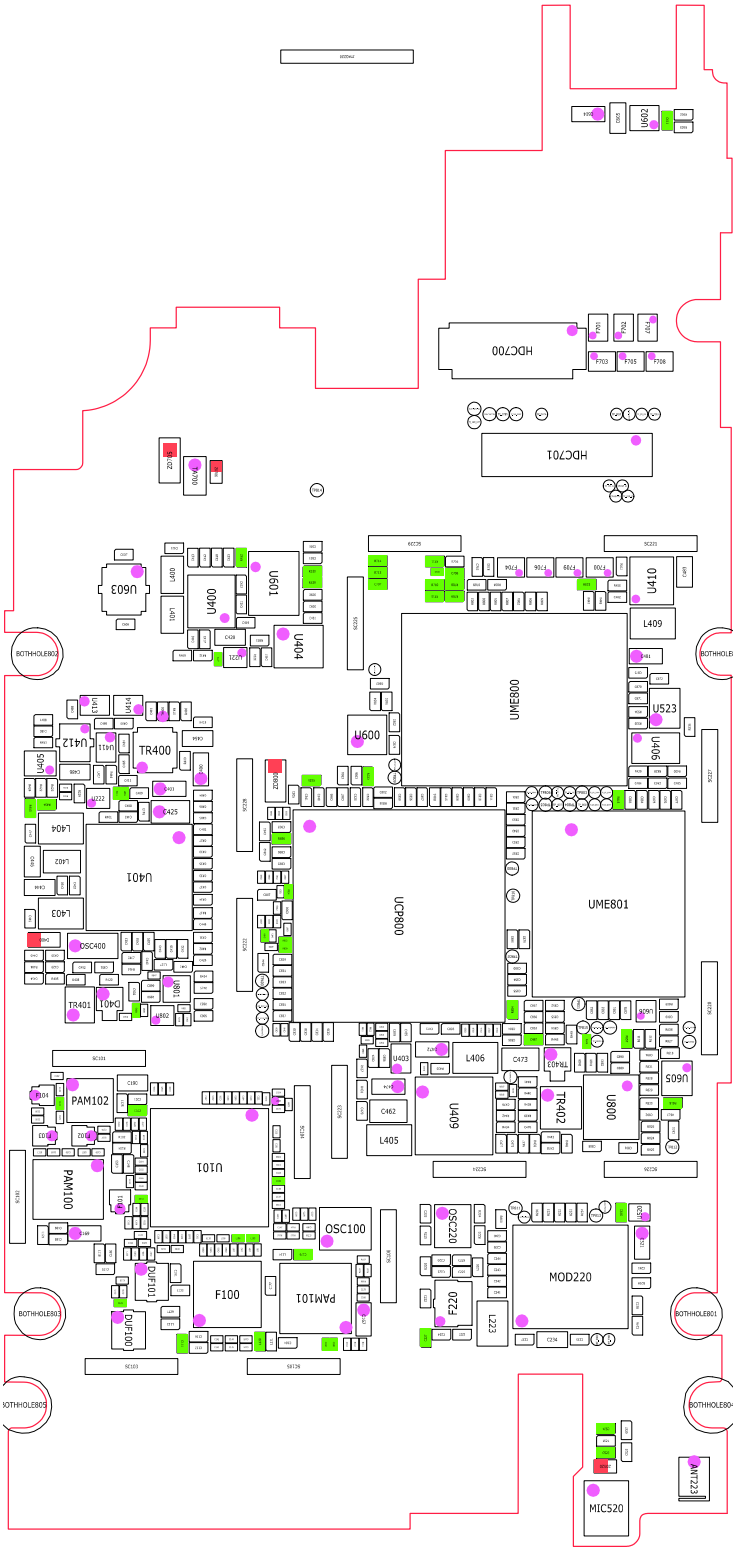


I8700 BT/WLAN/GPS/RADIO BLOCK DIAGRAM

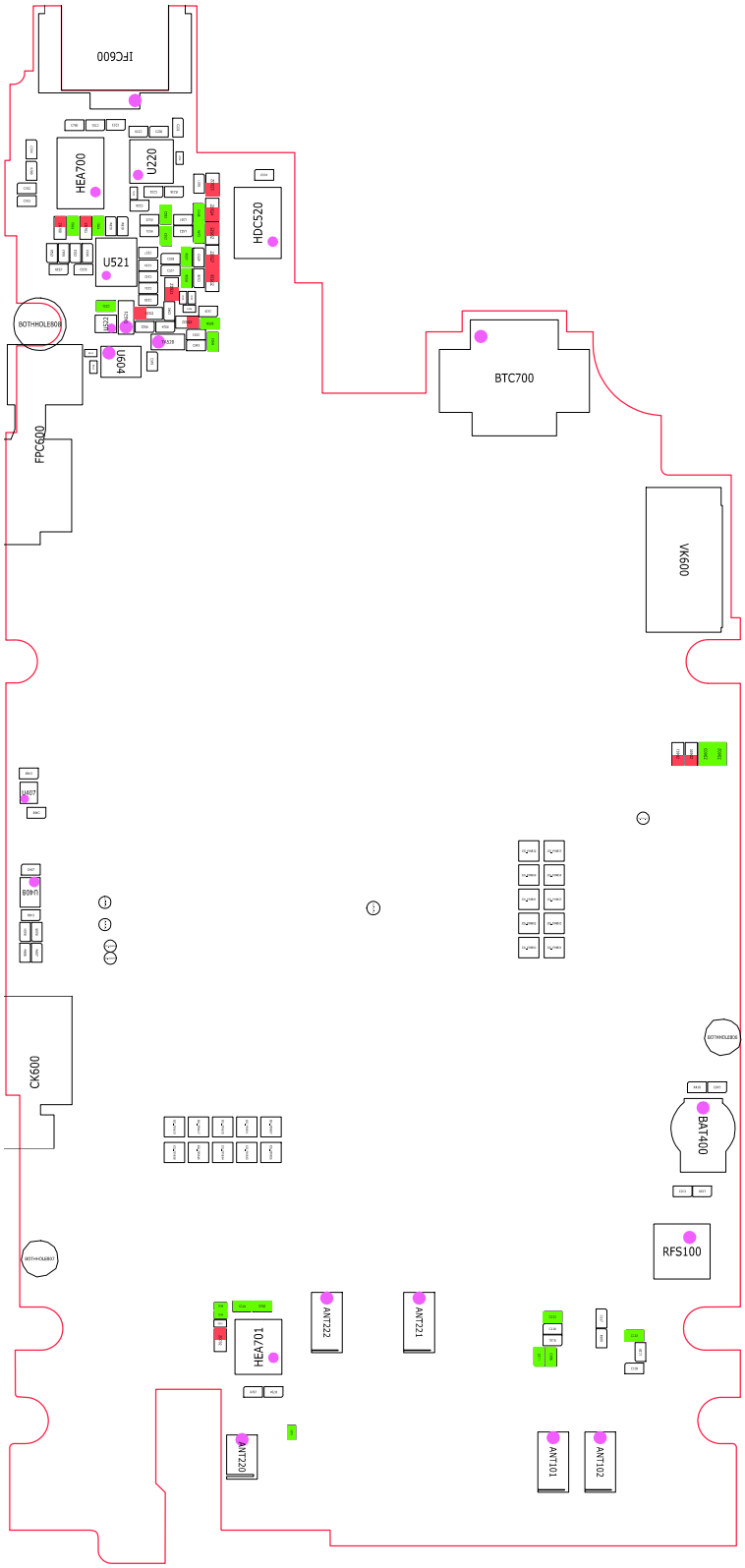


8-2. PCB Diagrams

8-2-1. Top

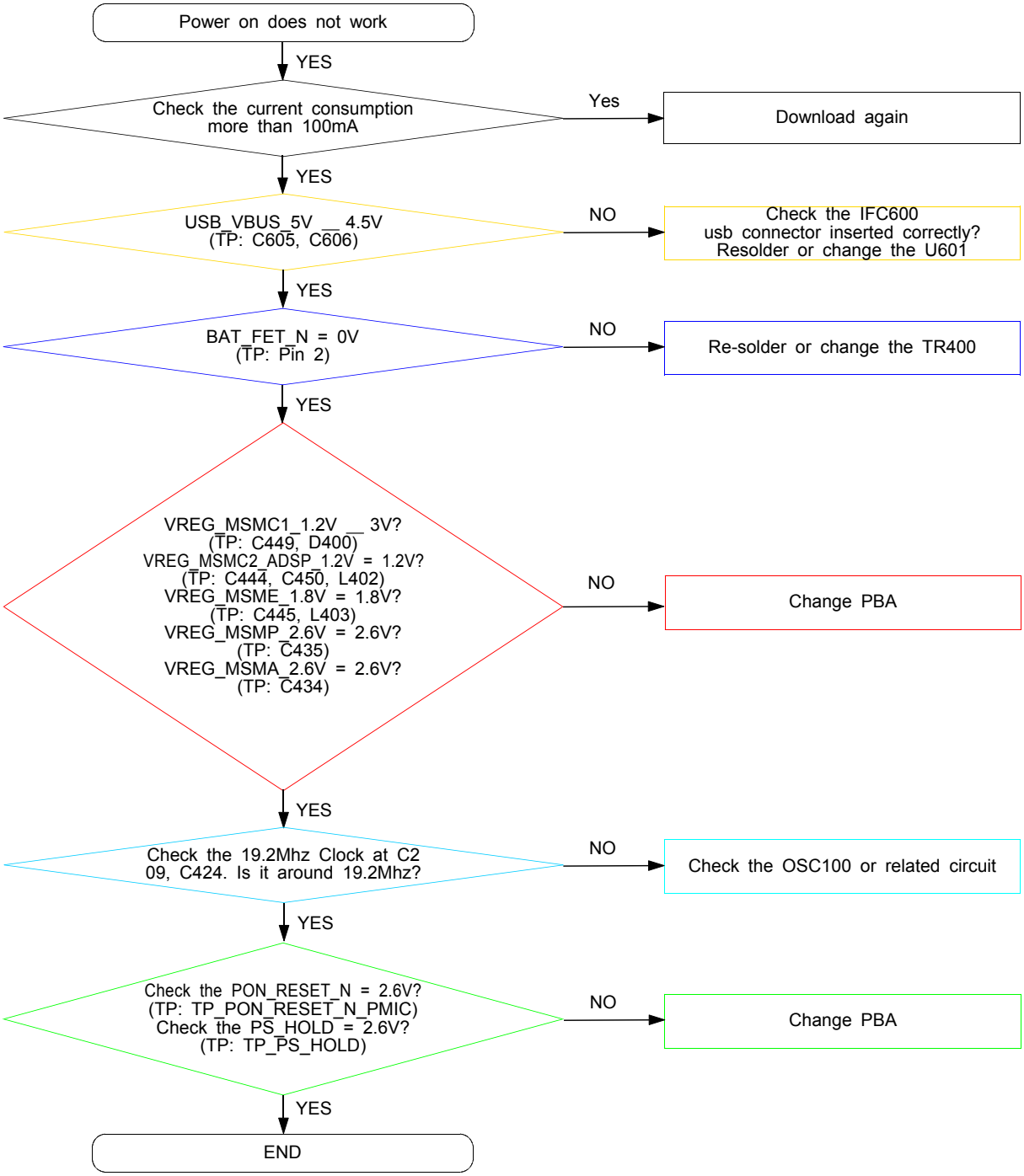


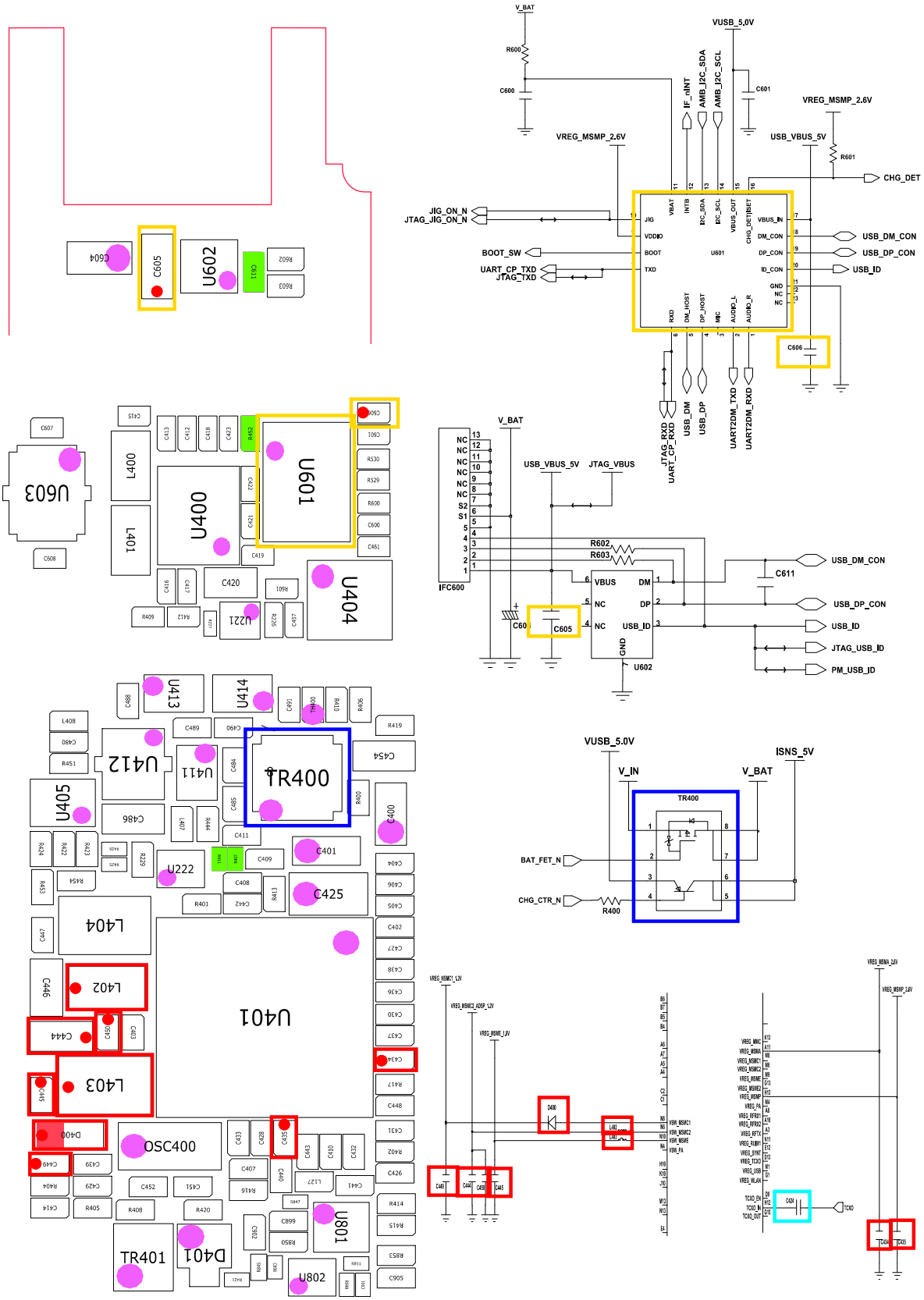
8-2-1. Bottom

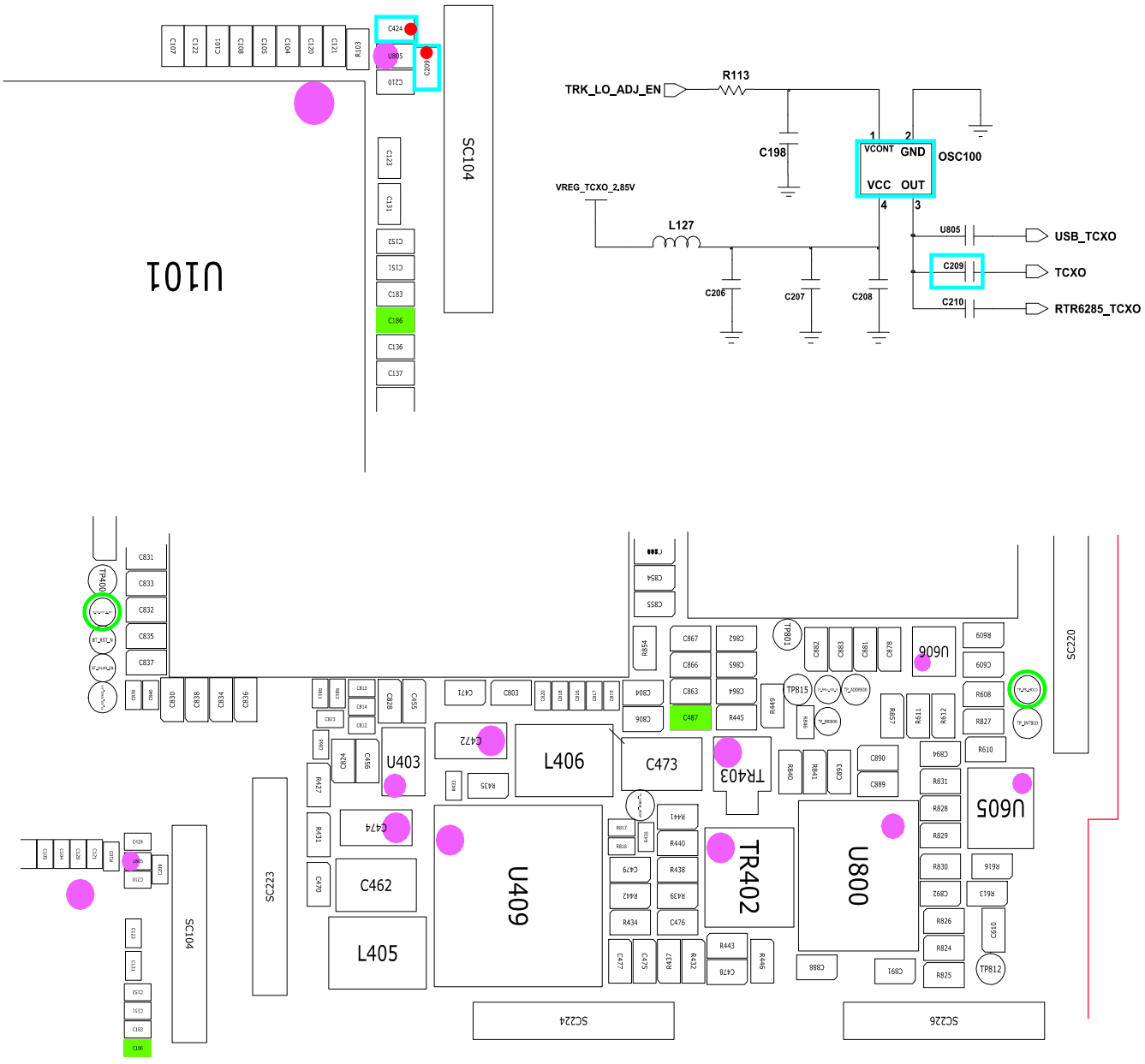


8-3. Flow Chart of Troubleshooting

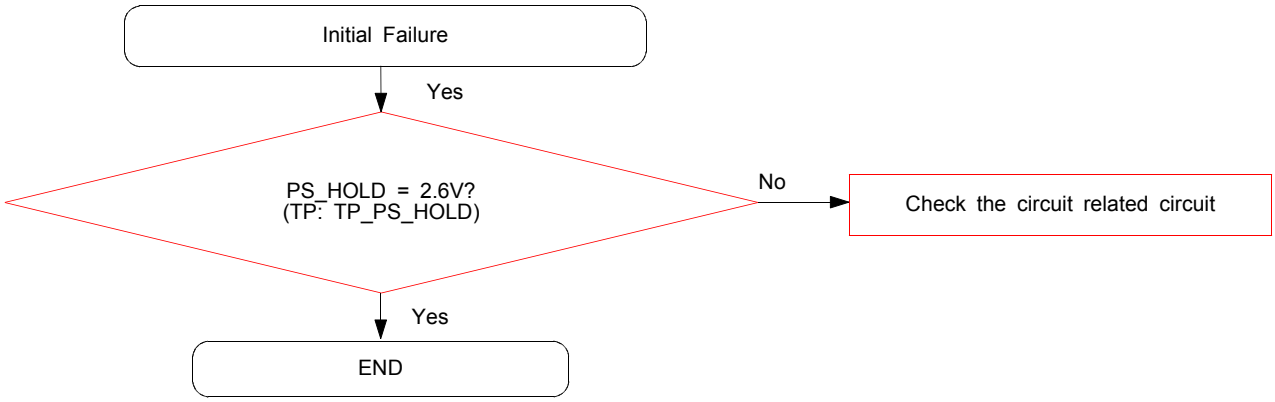
8-3-1. Power On

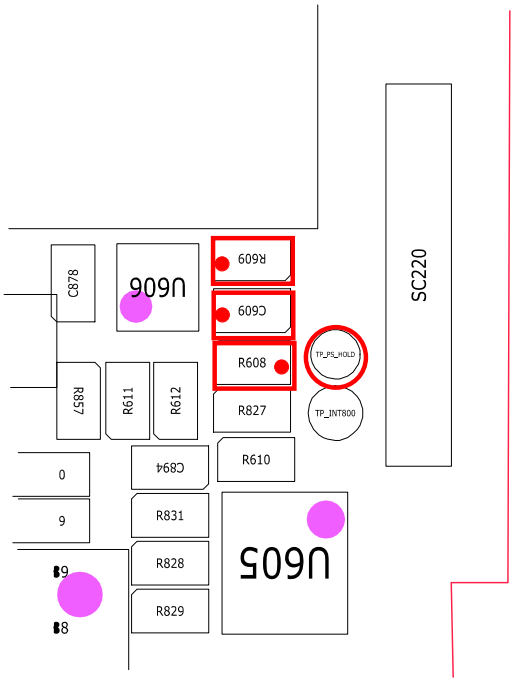


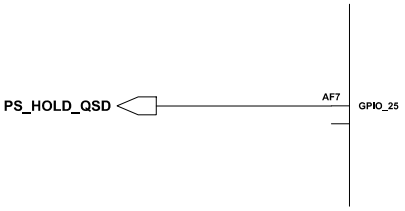


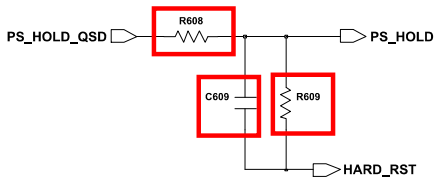


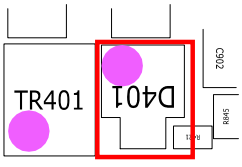
8-3-2. Initial

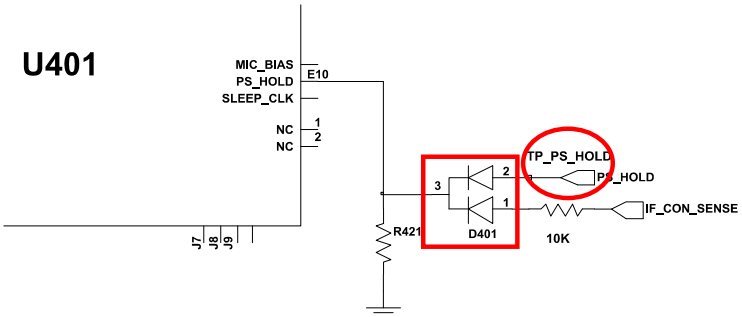




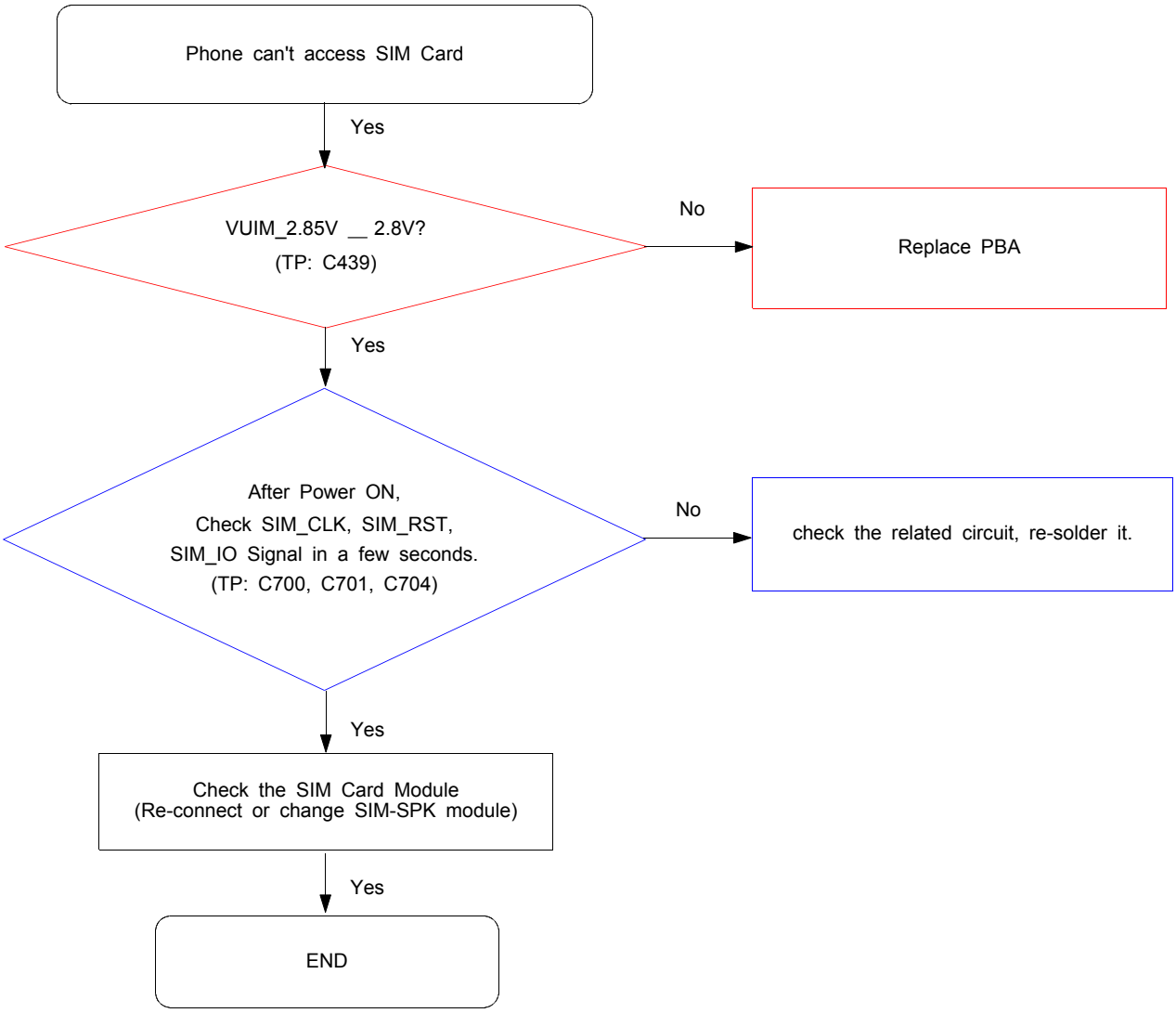


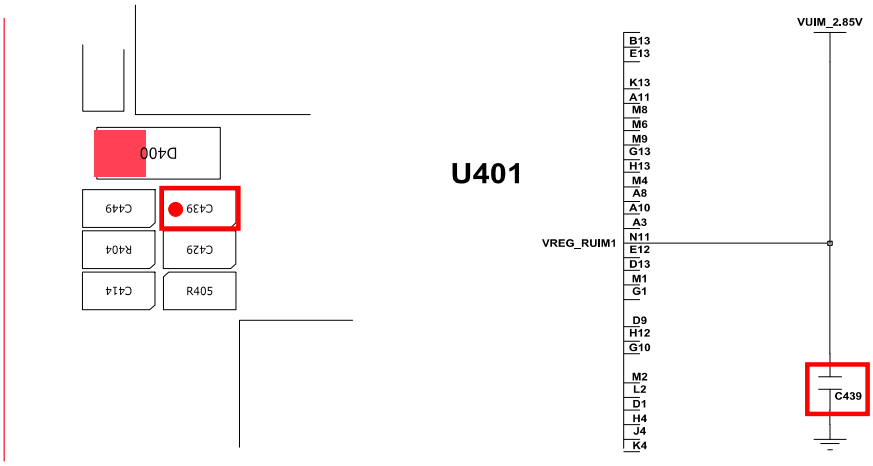


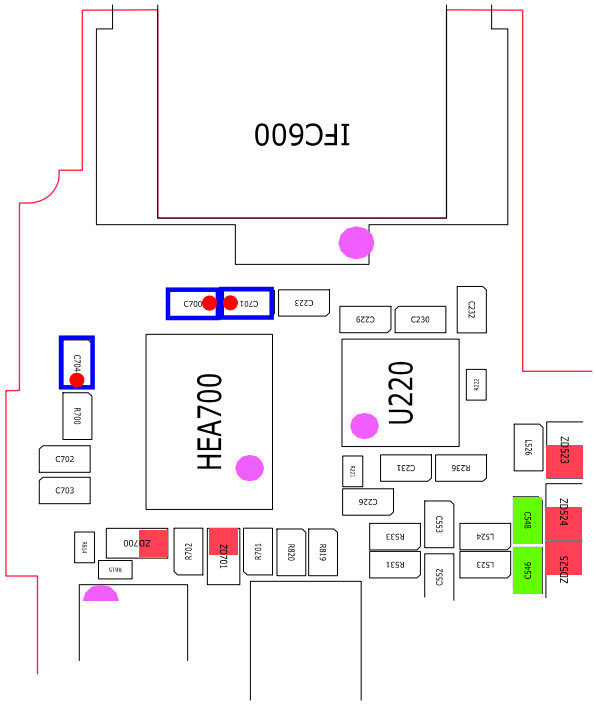


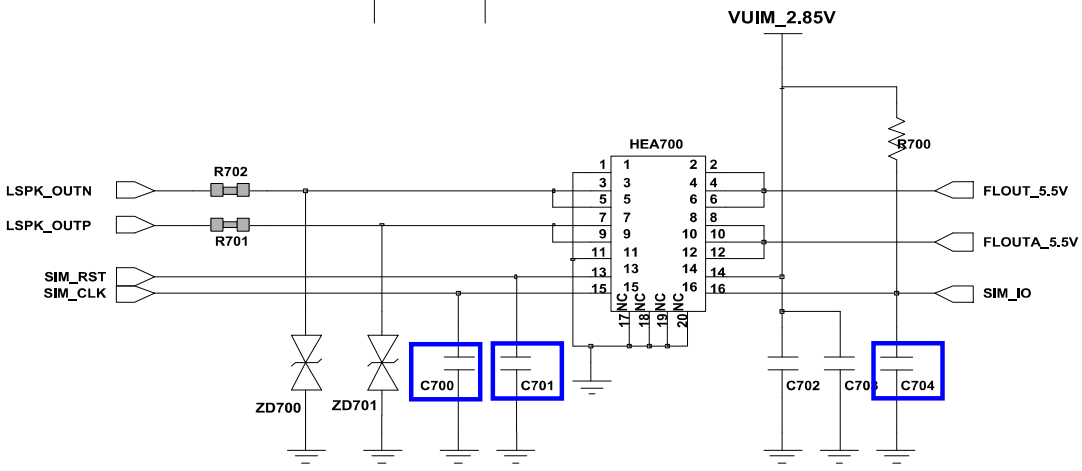


8-3-3. Sim Part

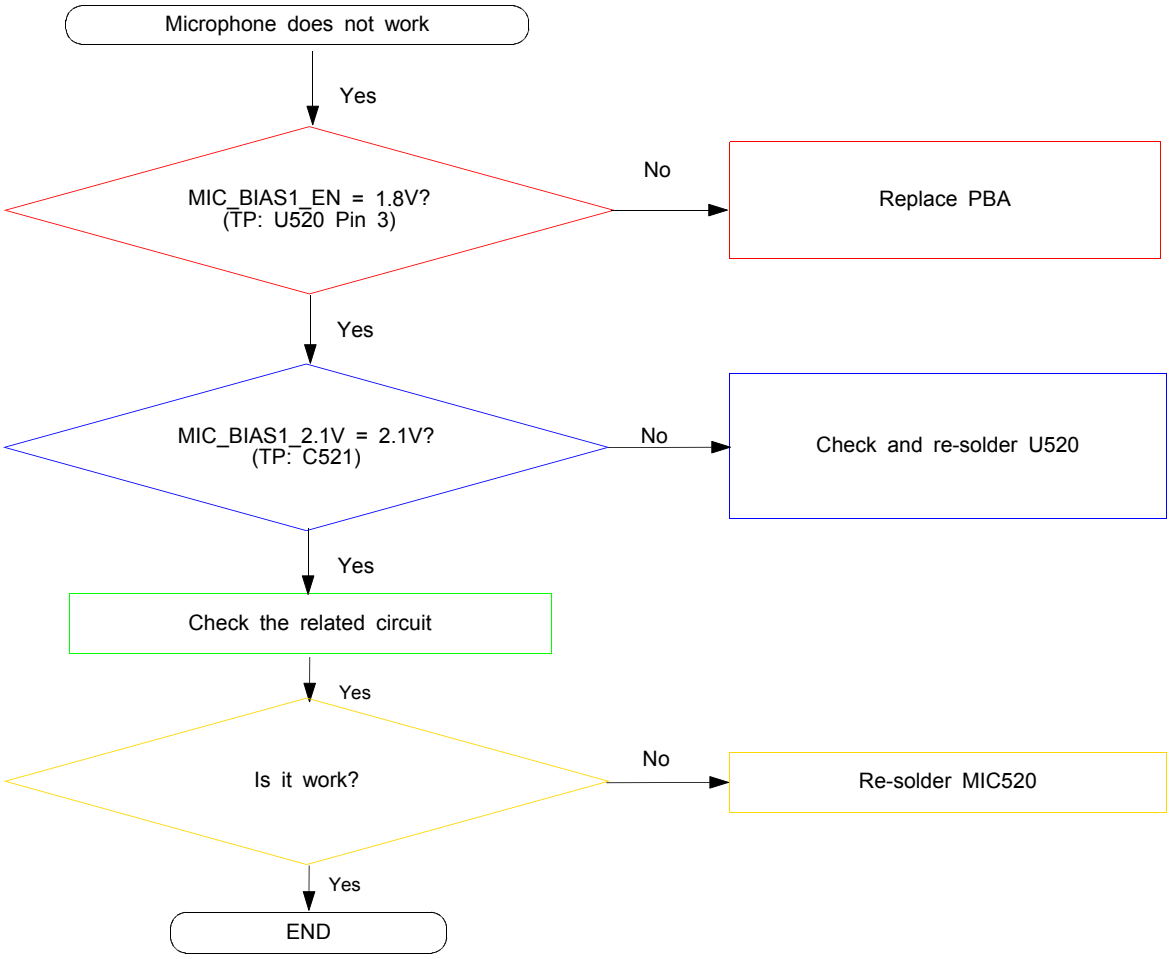


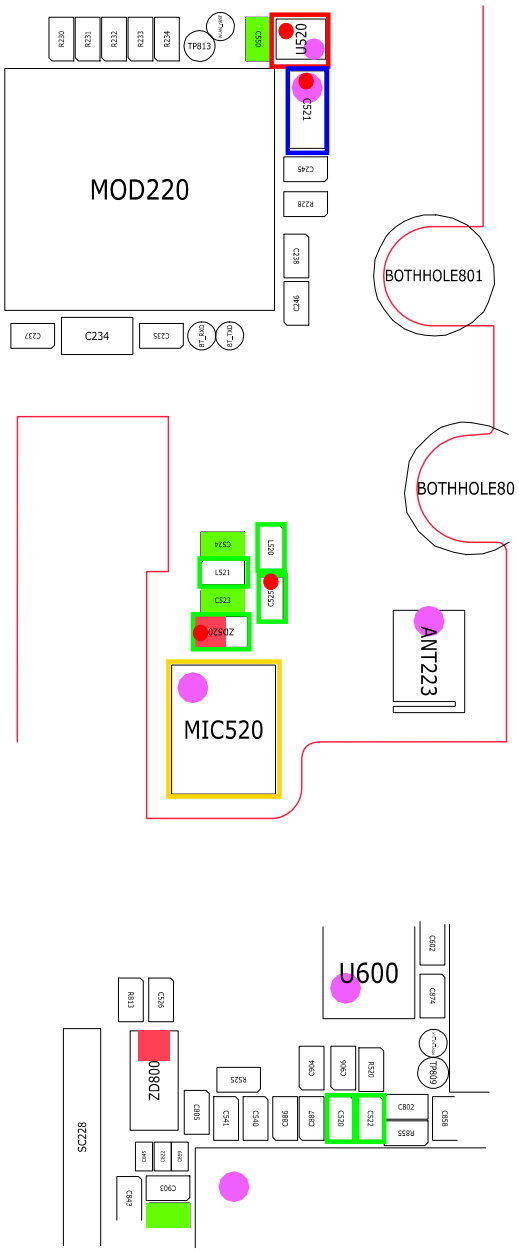


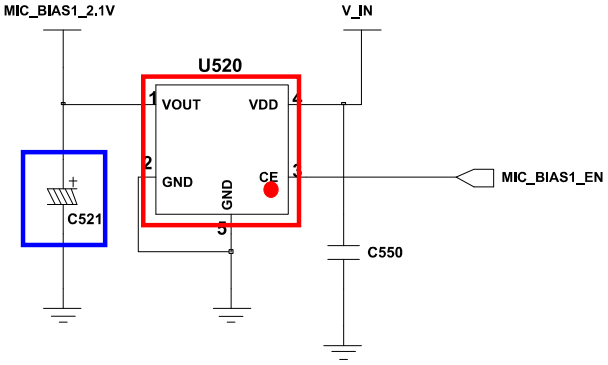


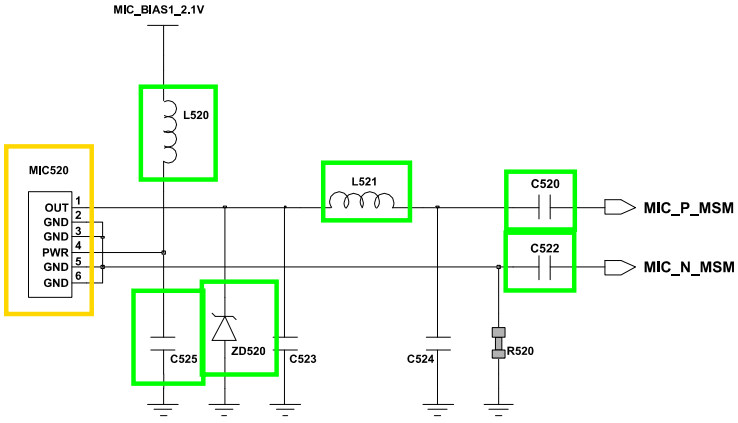


8-3-4. Microphone Part

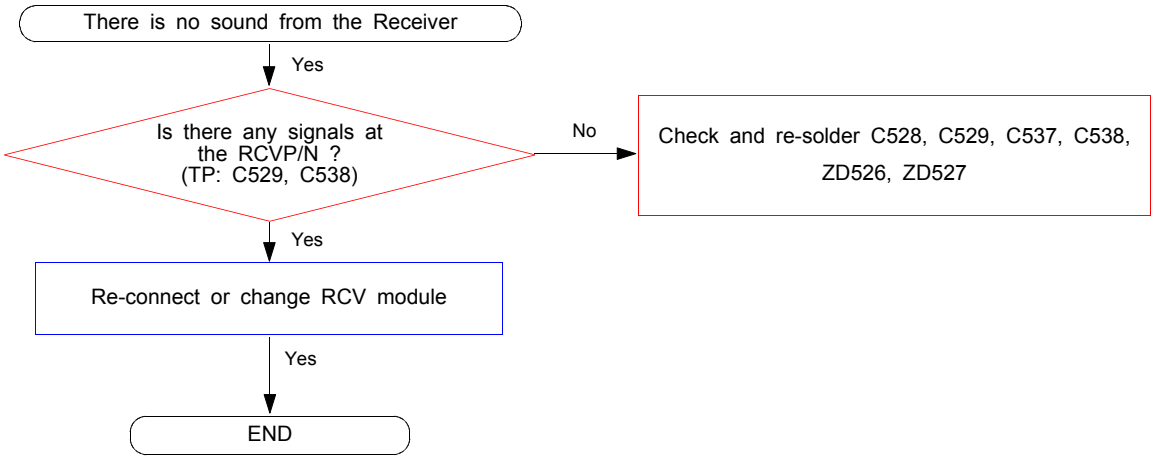


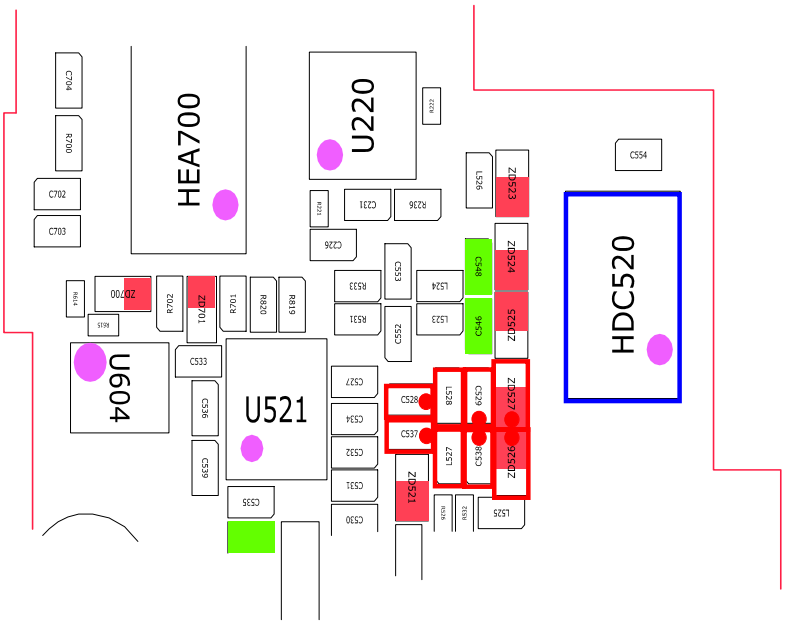


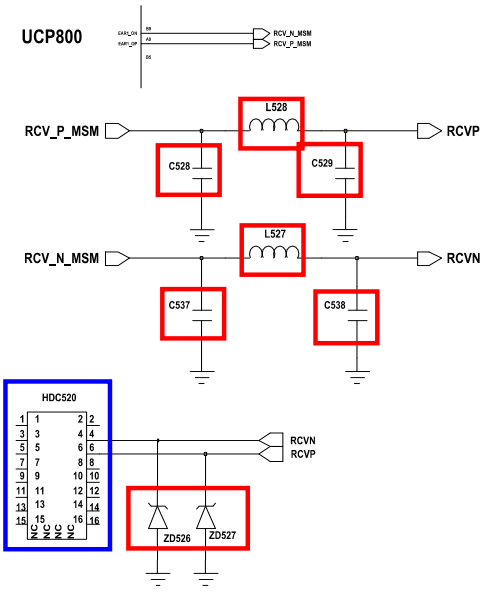




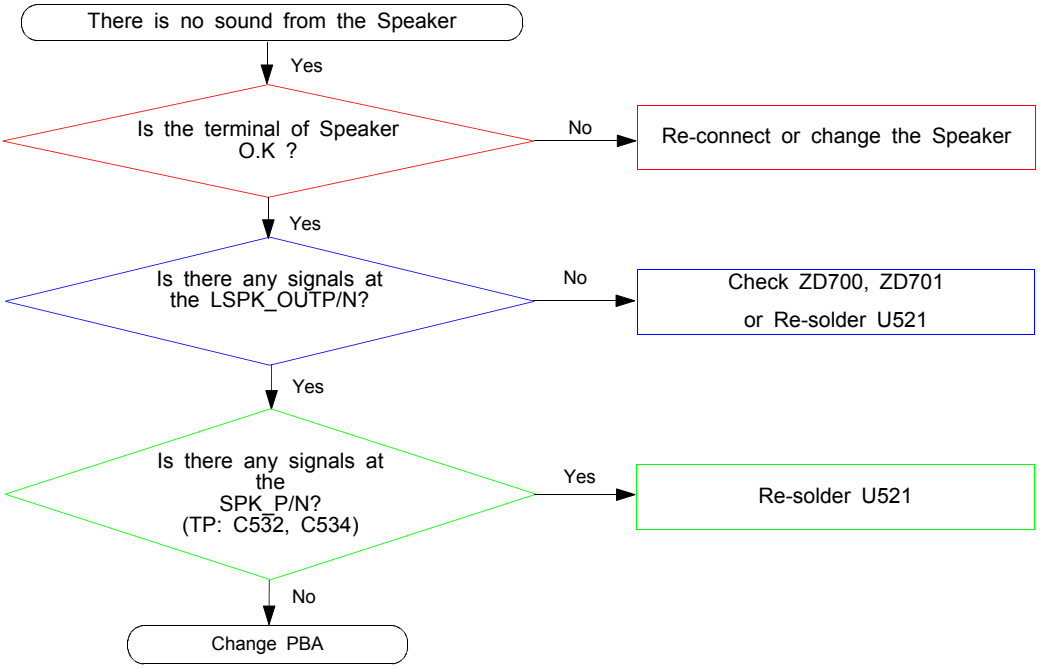
8-3-5. Receiver Part

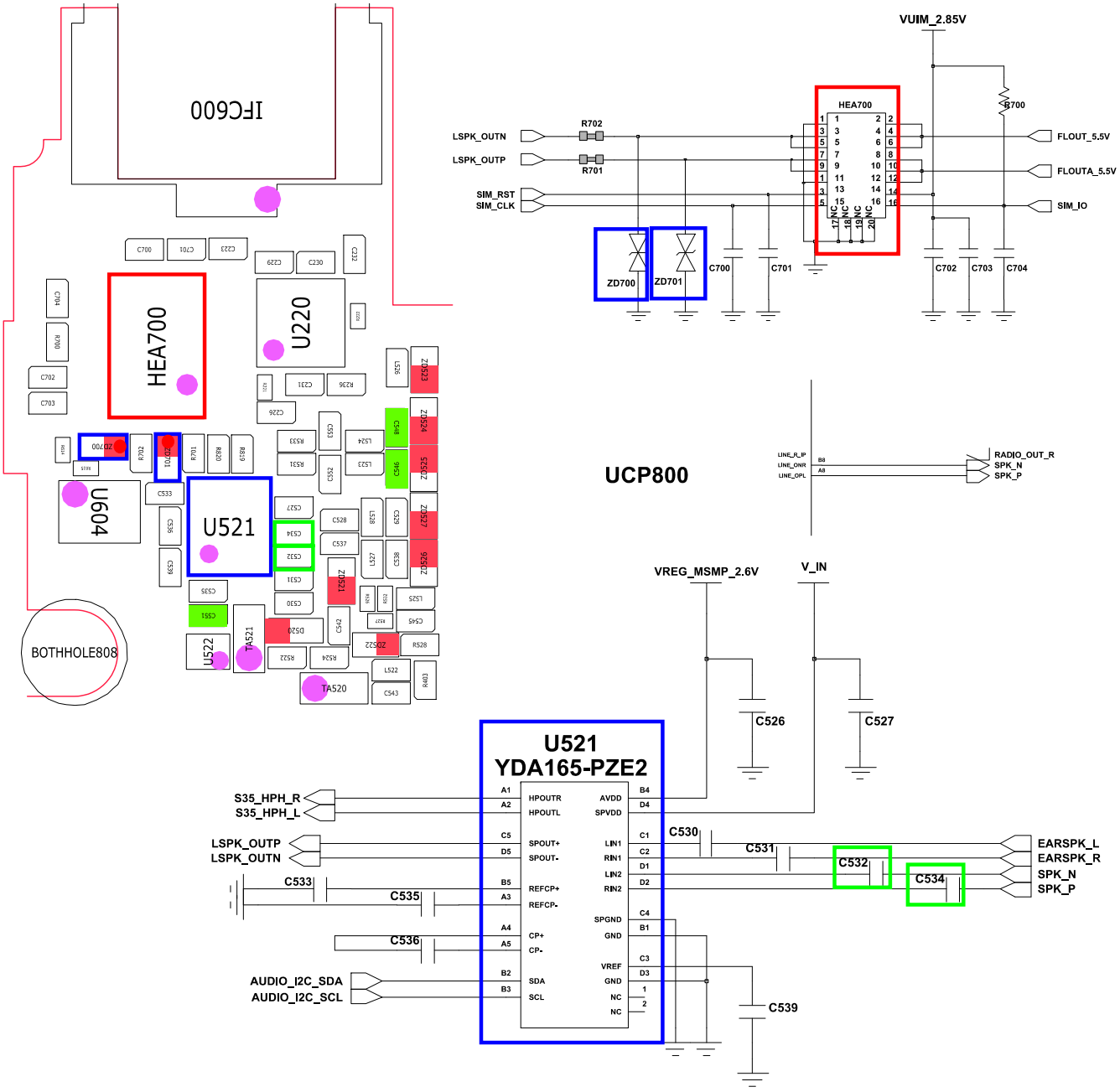




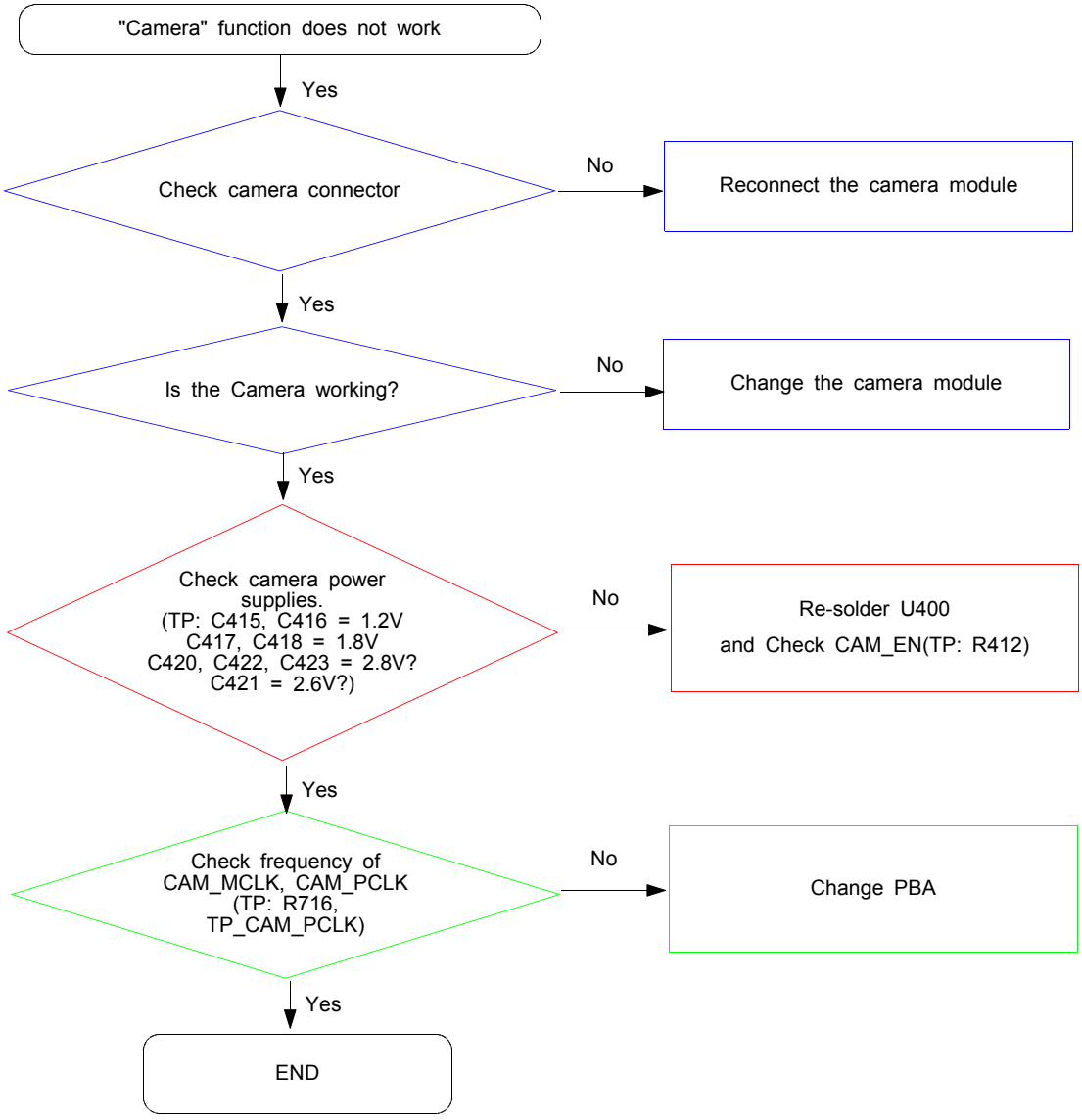


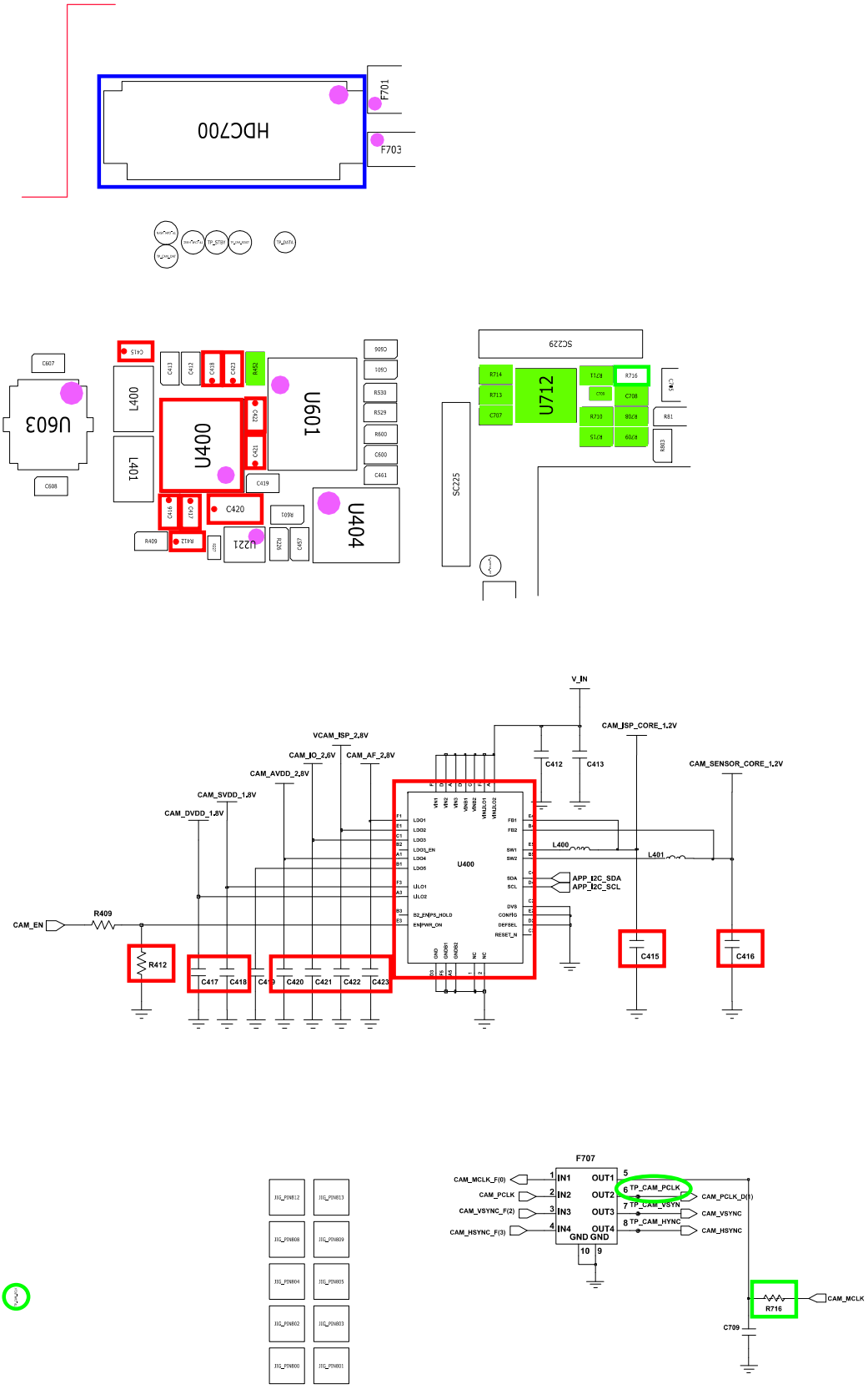
8-3-6. Speaker Part



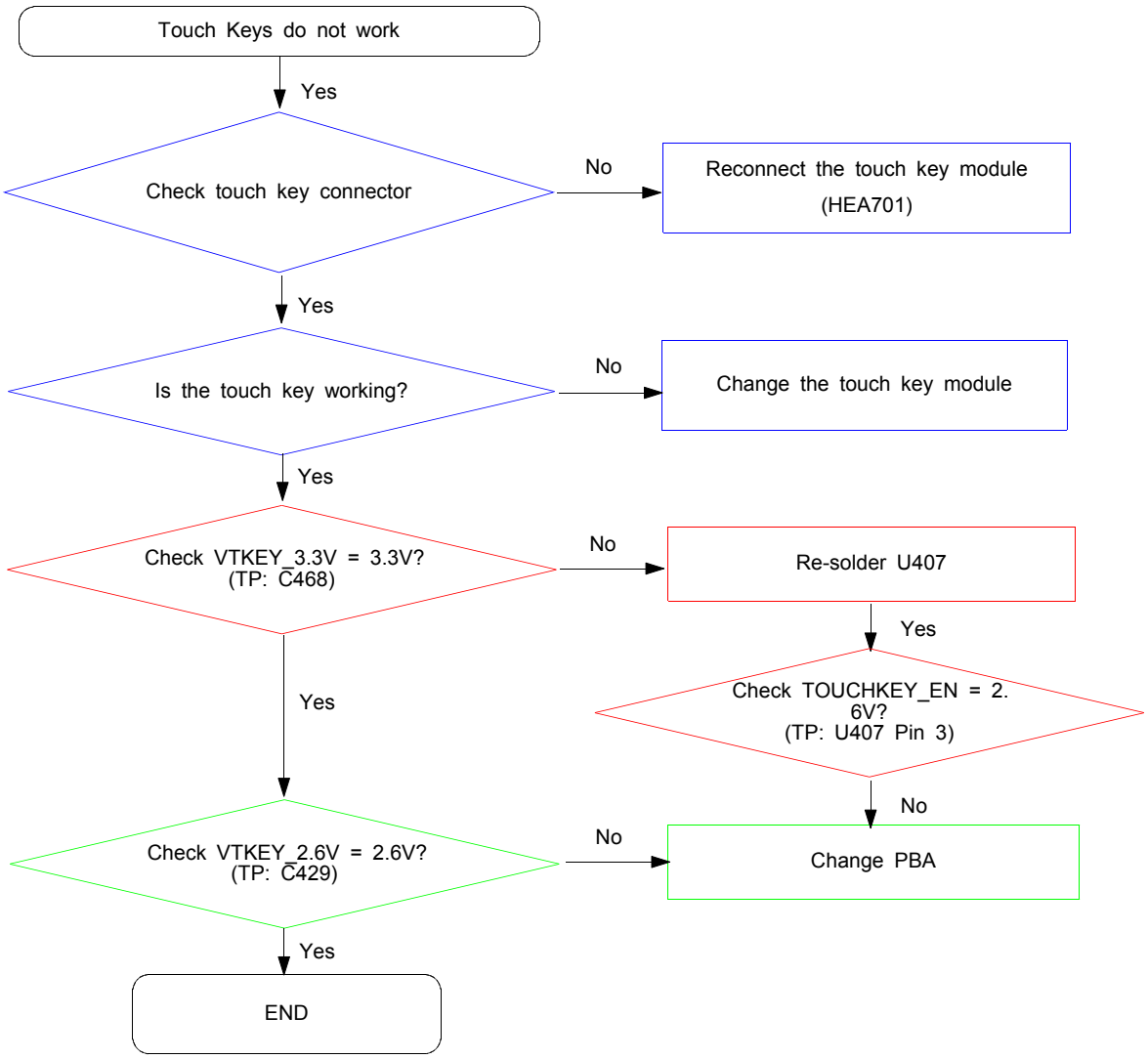


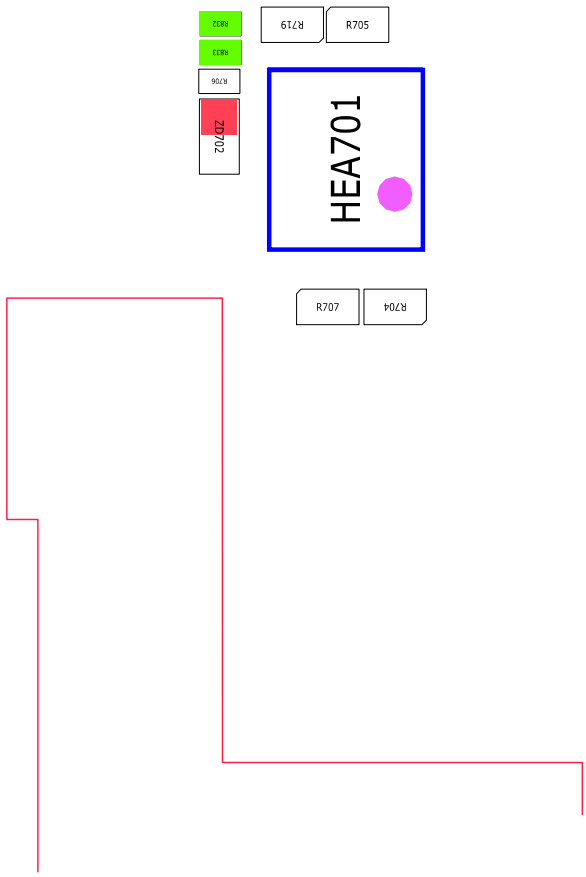
8-3-7. Camera Part

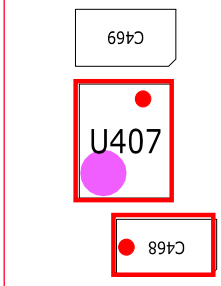


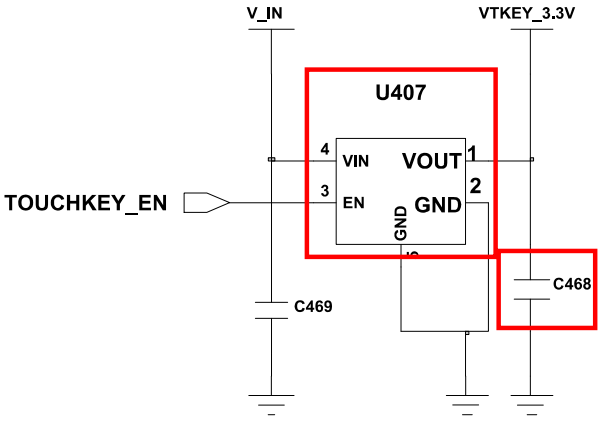


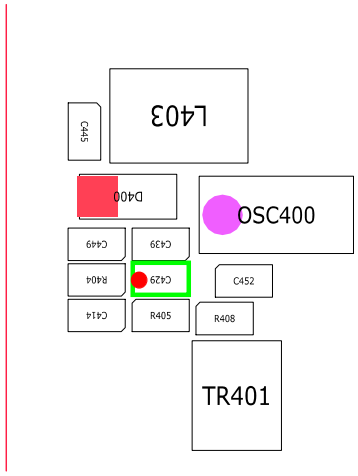
8-3-8. Touch Key(Back, Search) Part

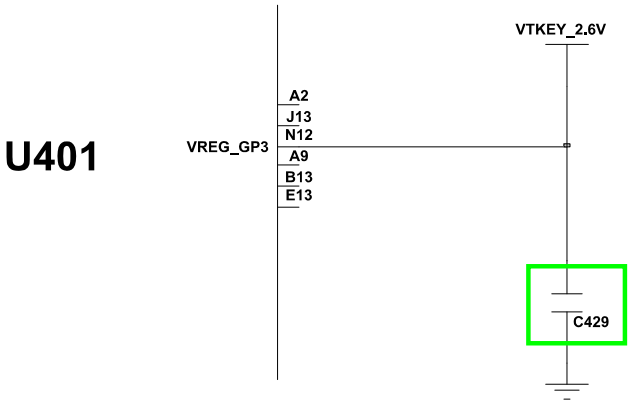




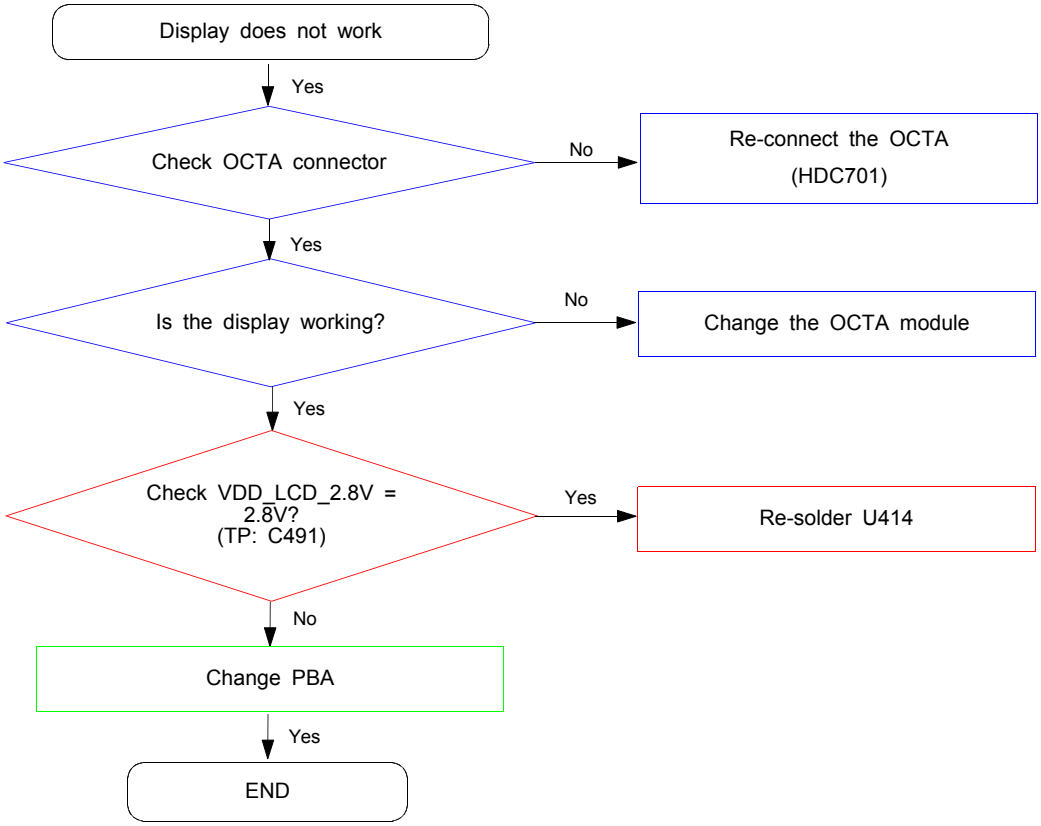


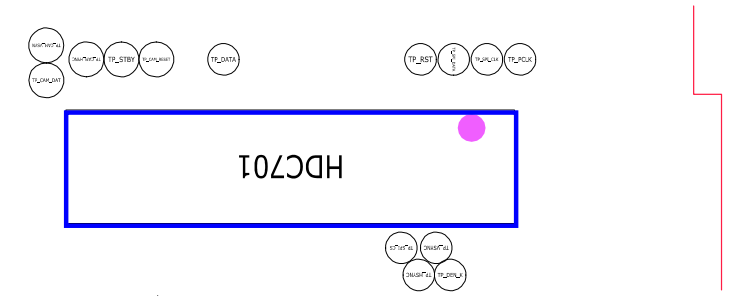


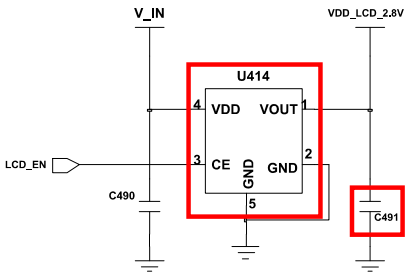




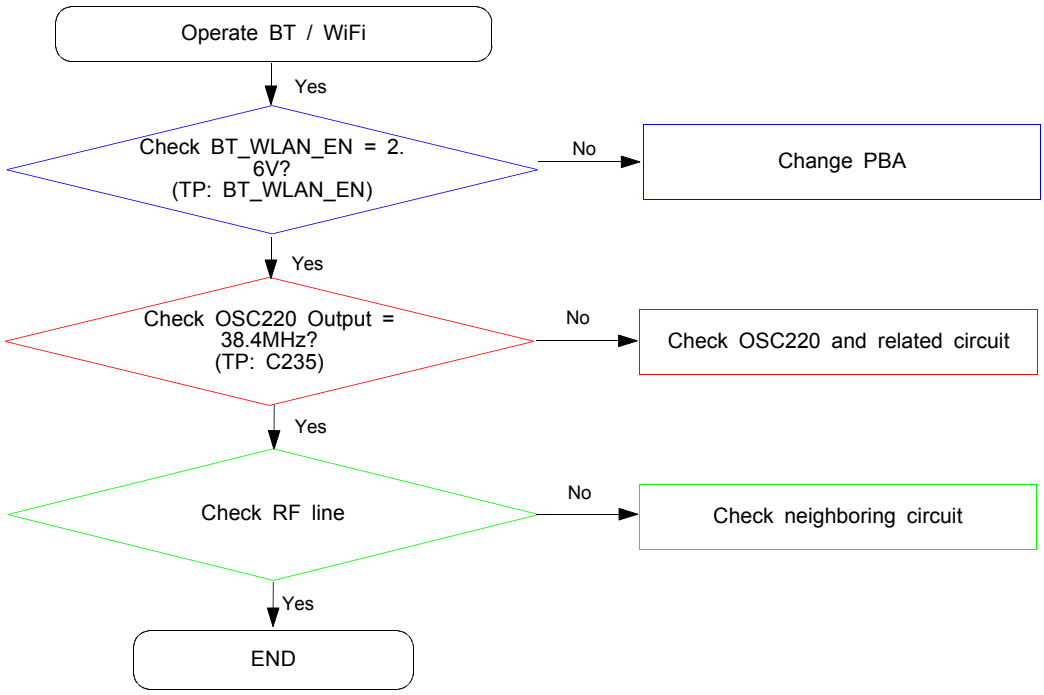
8-3-9. OCTA(On-Cell TSP Amoled) Part

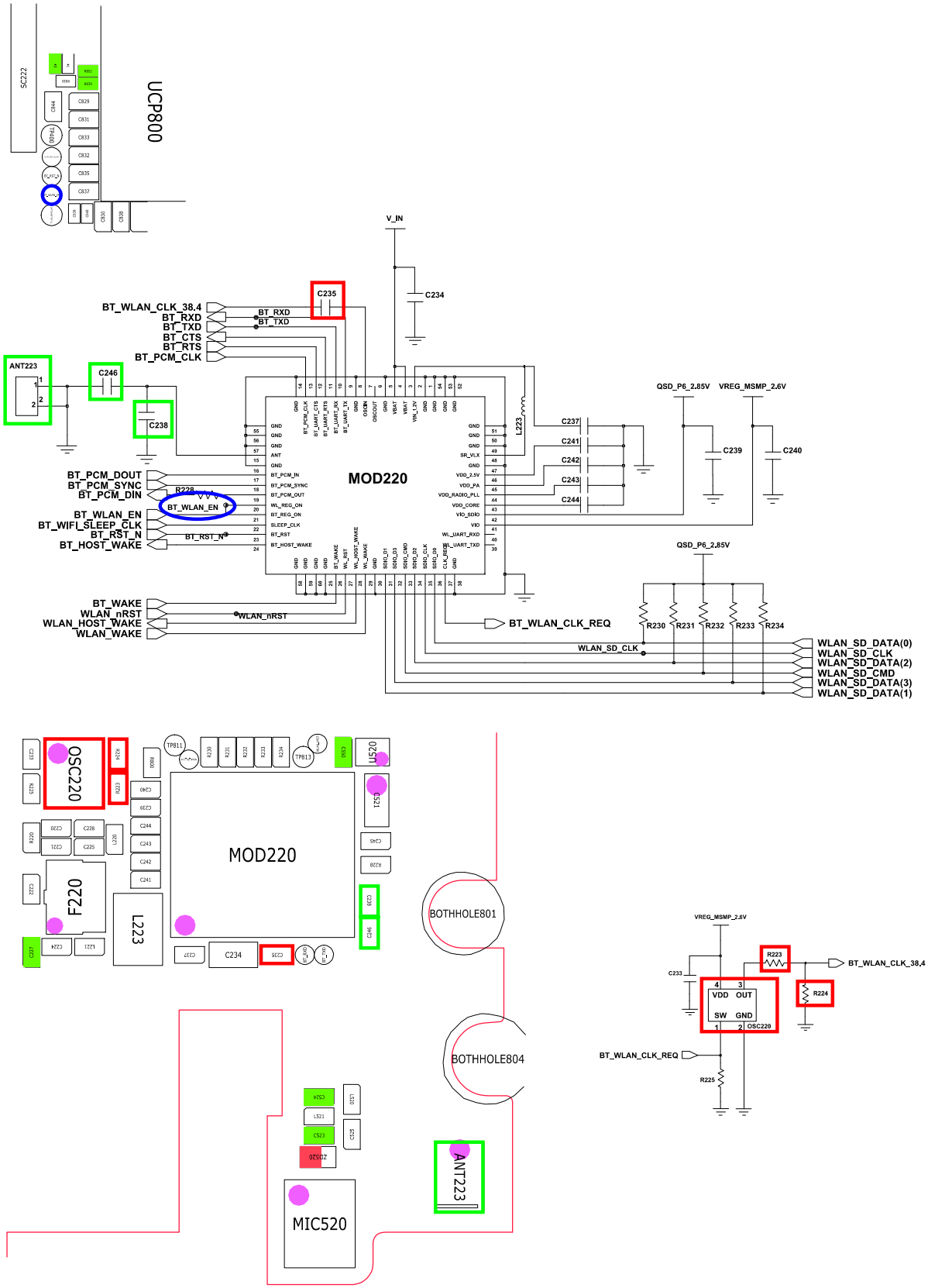




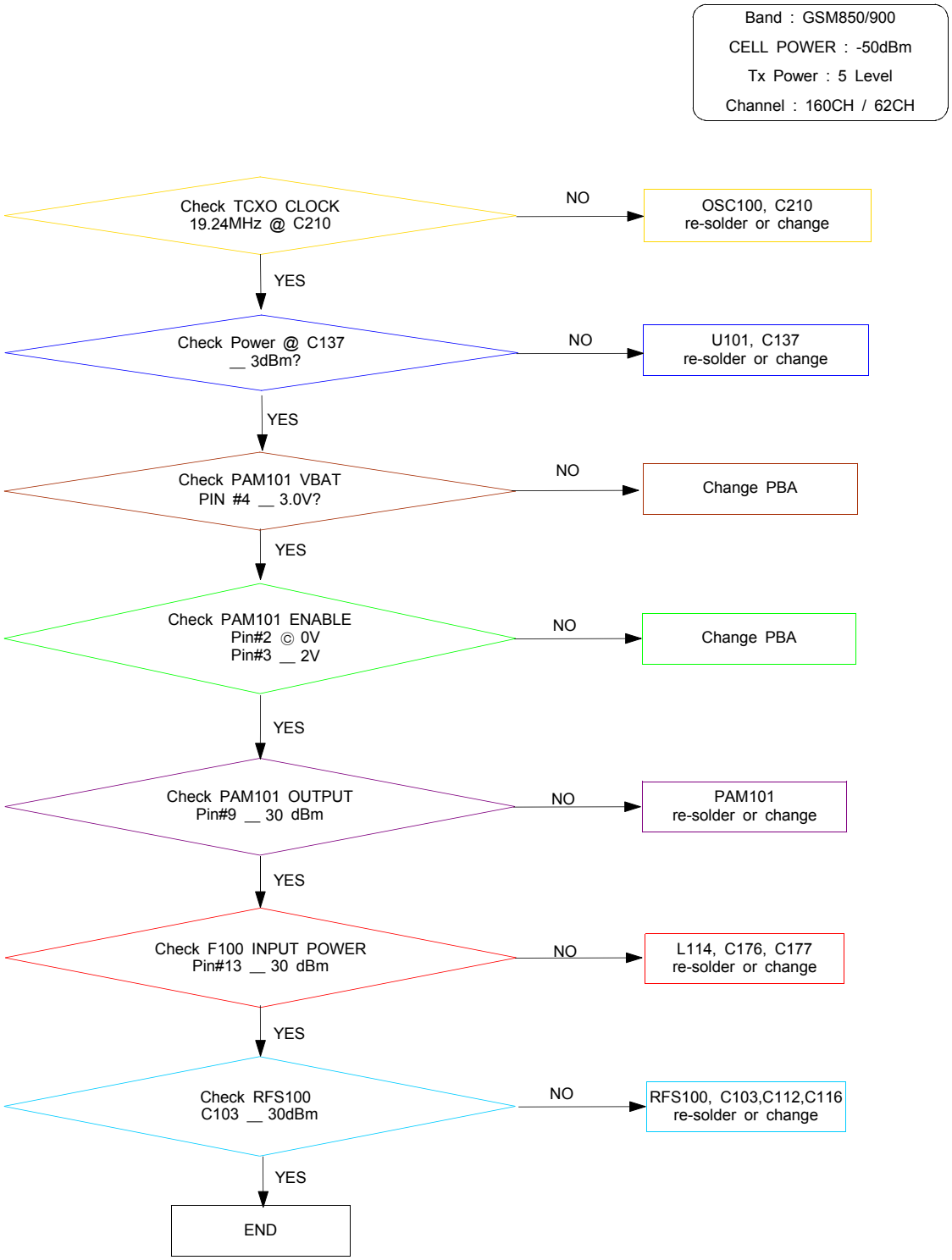


8-3-10. Bluetooth / WiFi Part

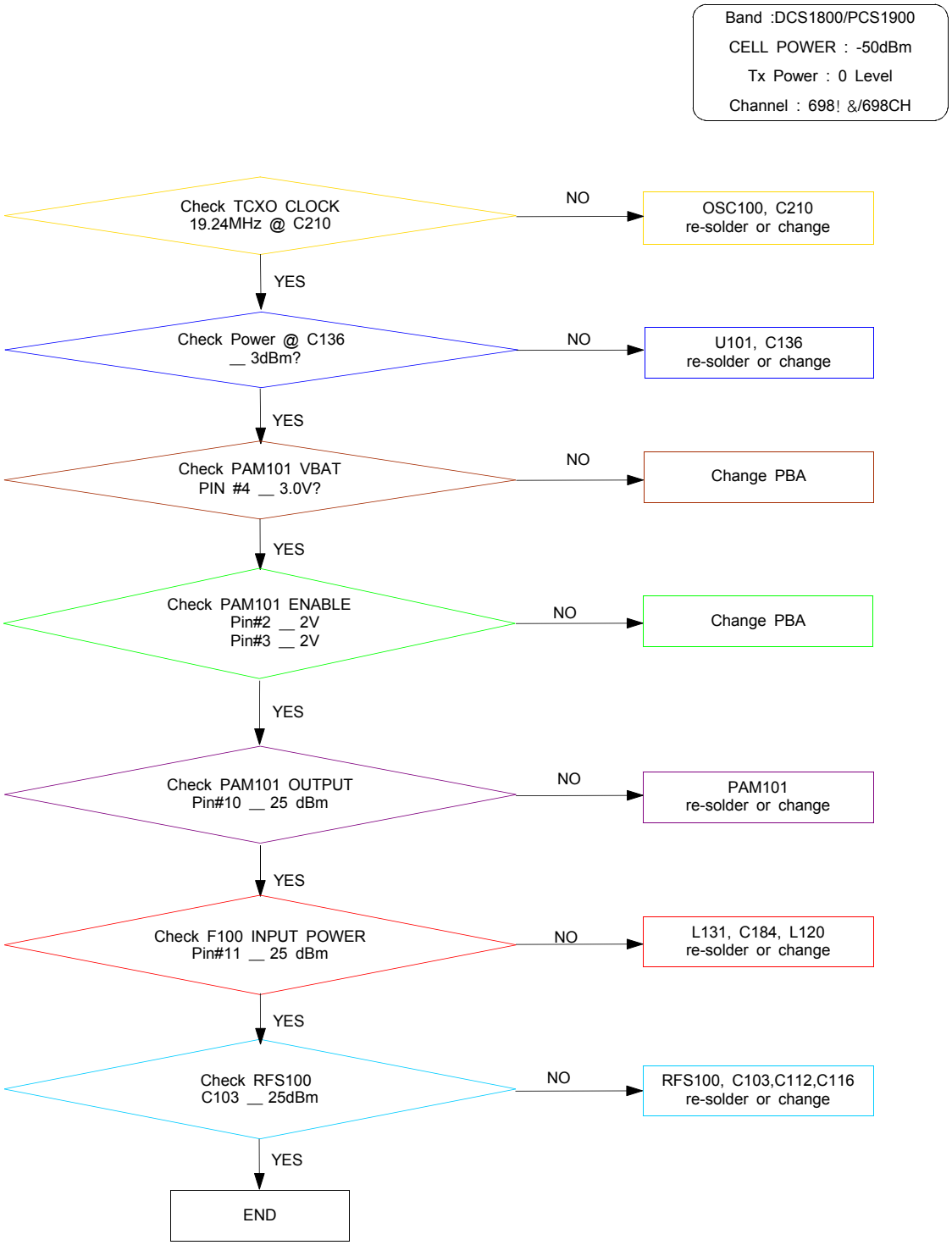




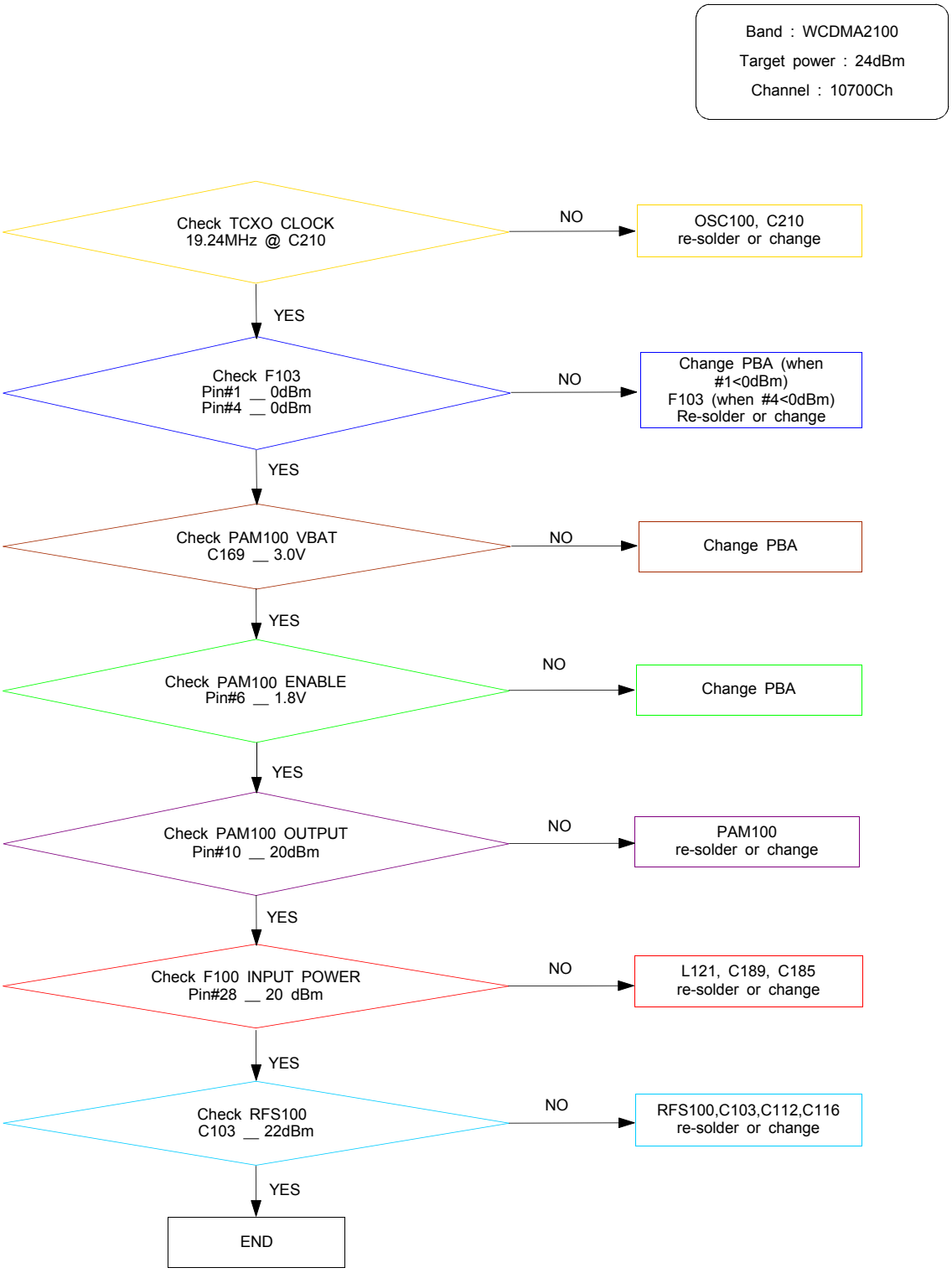
8-3-11. EGSM 850/900 TX



8-3-12. DCS1800/PCS1900 TX

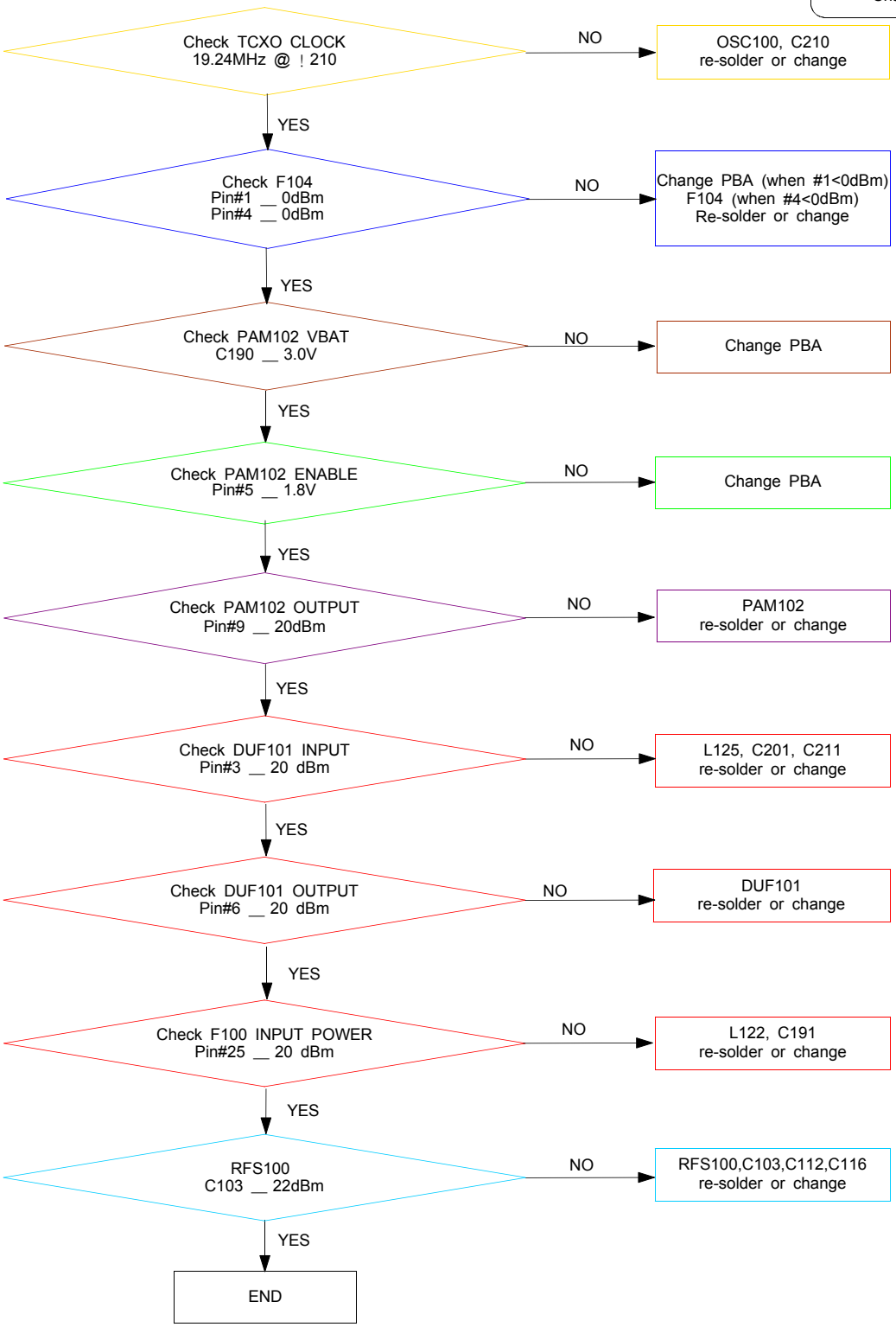


8-3-13. WCDMA2100 TX

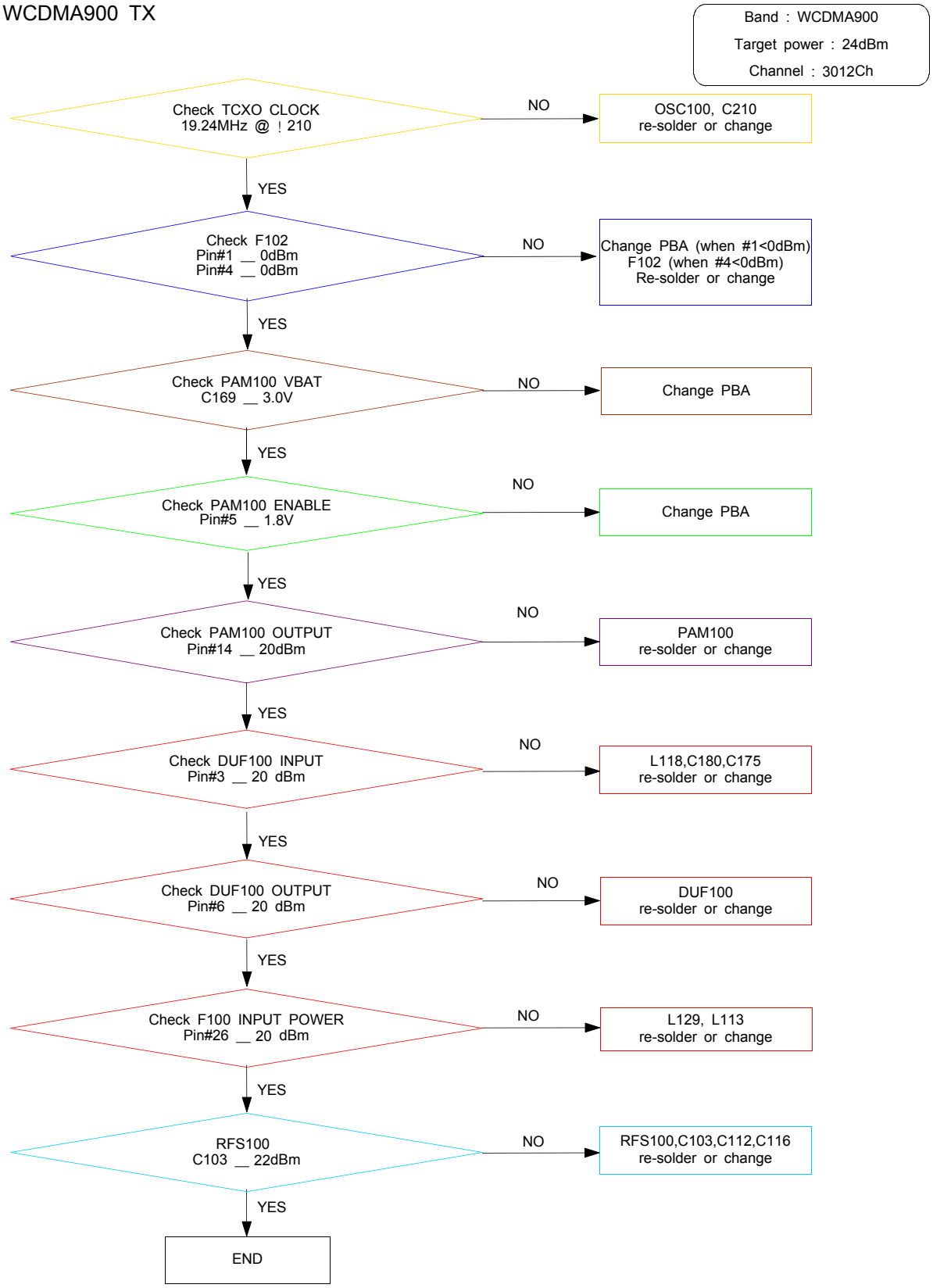


8-3-14. WCDMA1900 TX

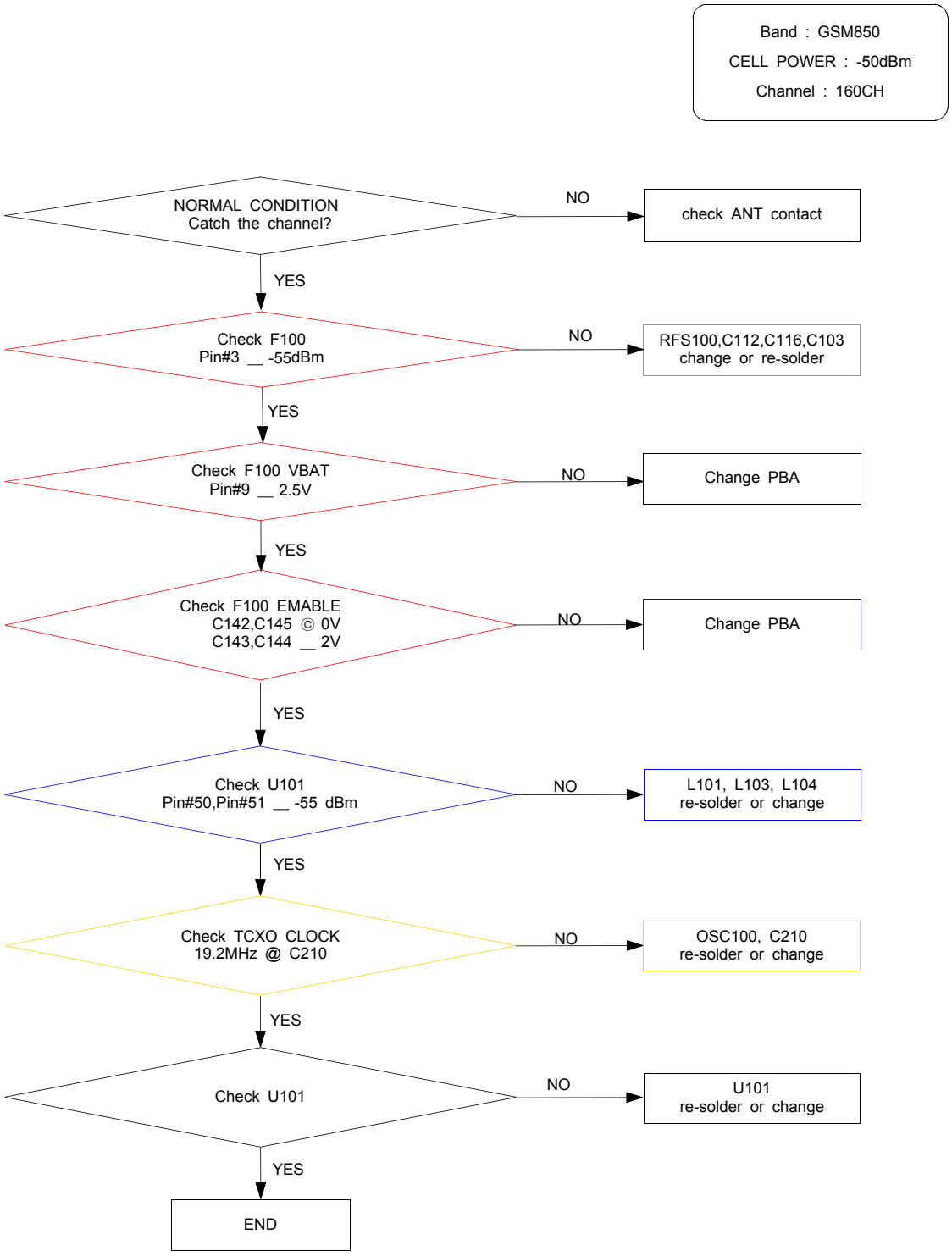
Band : WCDMA1900
Target power : 24dBm
Channel : 9800Ch



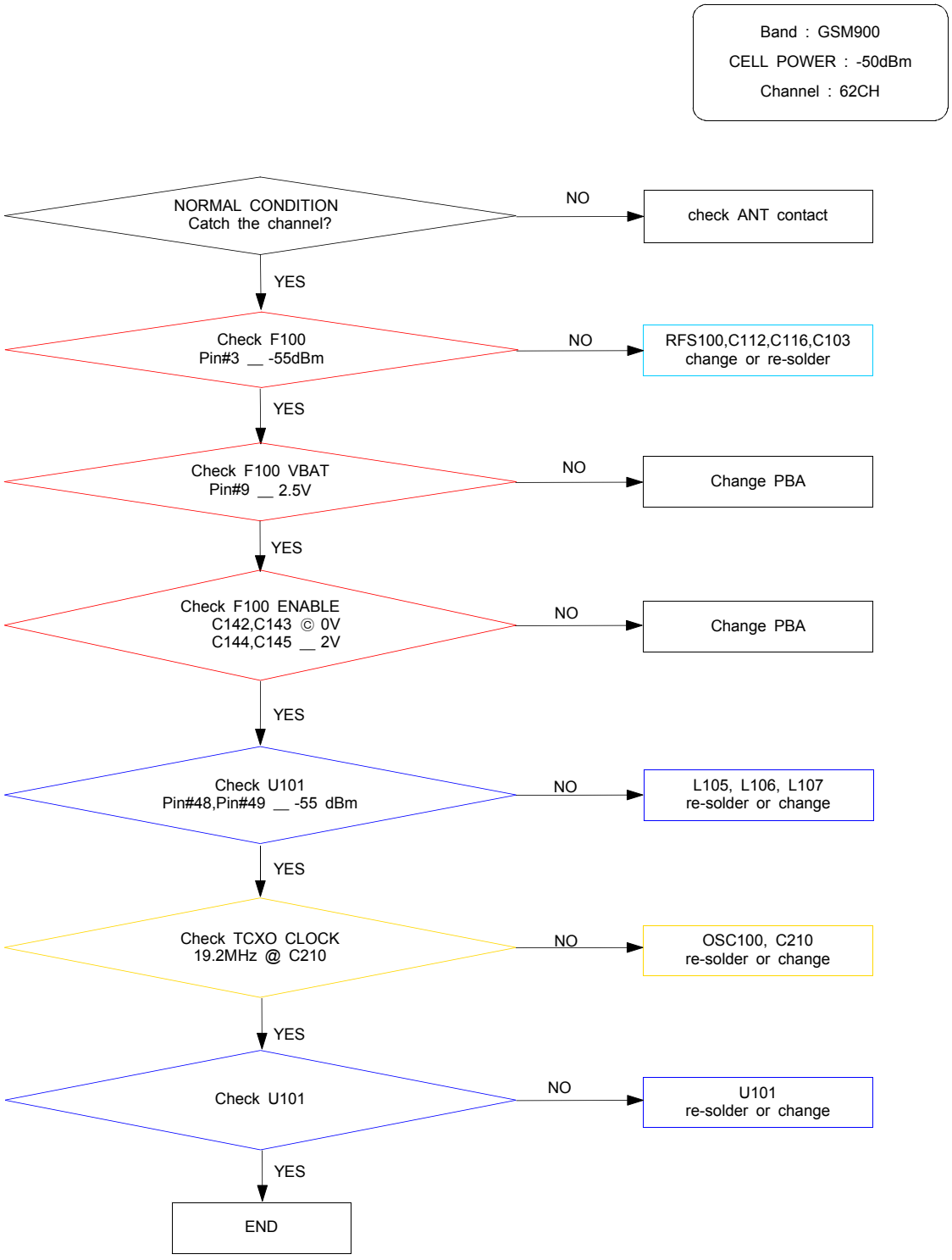
8-3-15. WCDMA900 TX



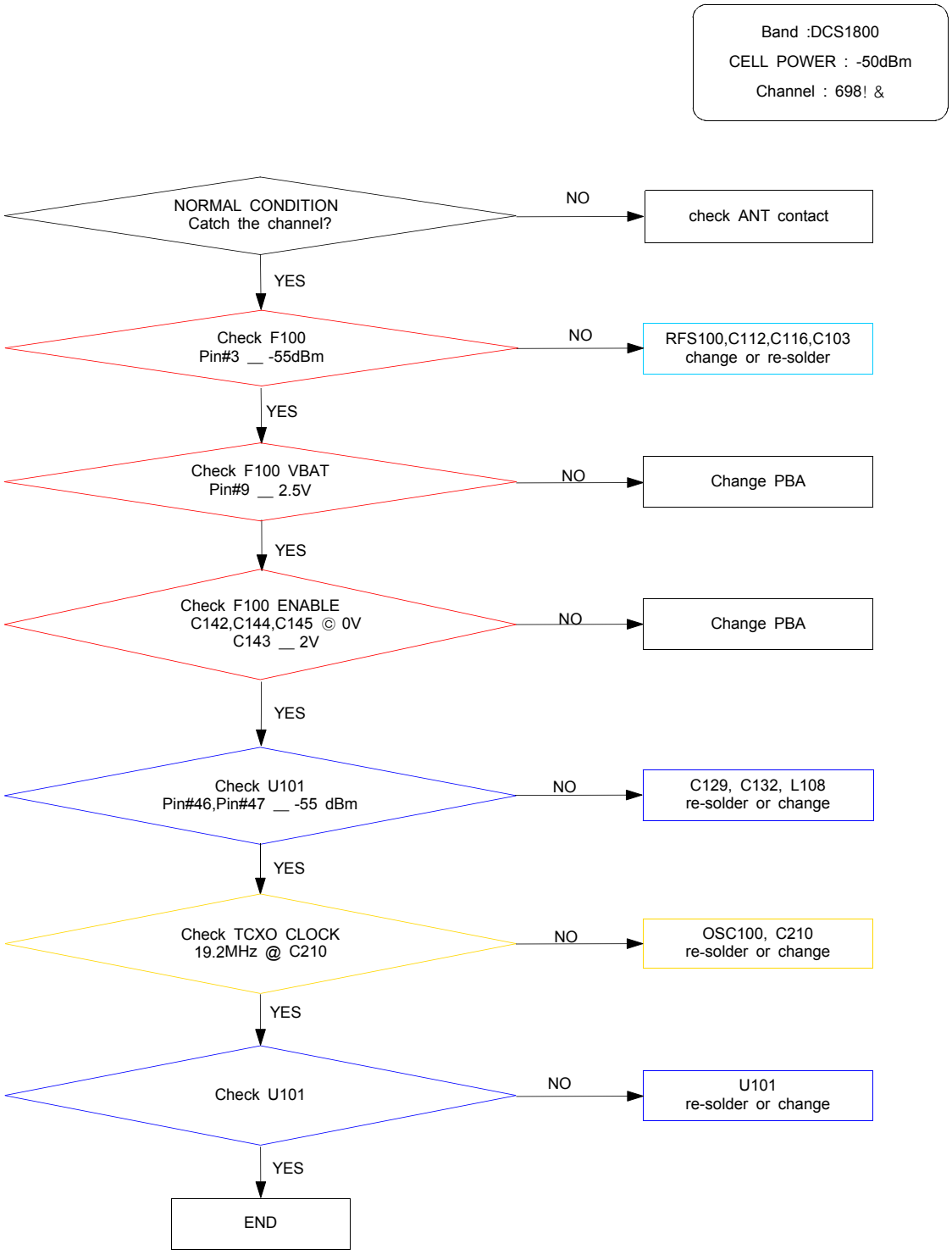
8-3-16. EGSM 850 RX



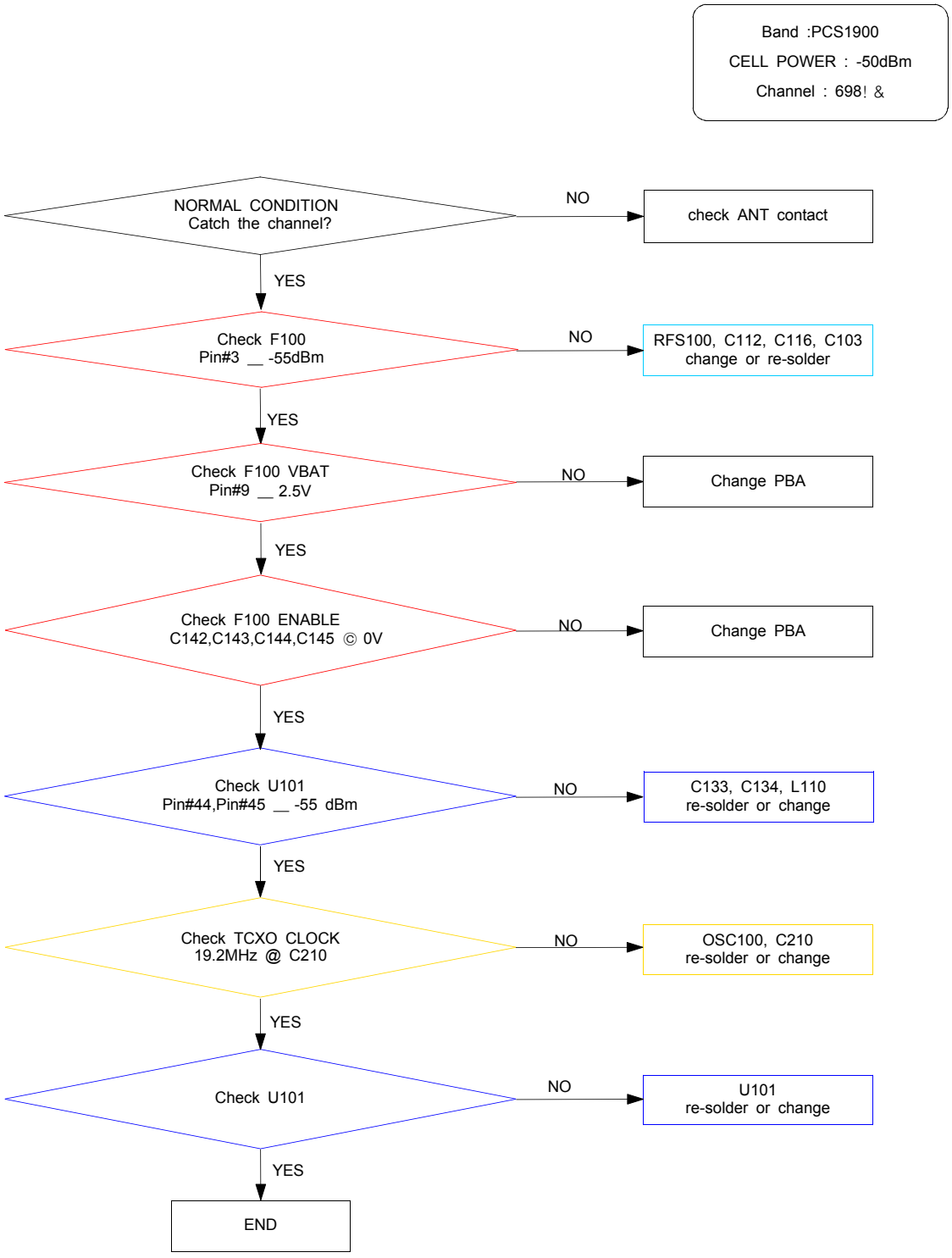
8-3-17. EGSM 900 RX



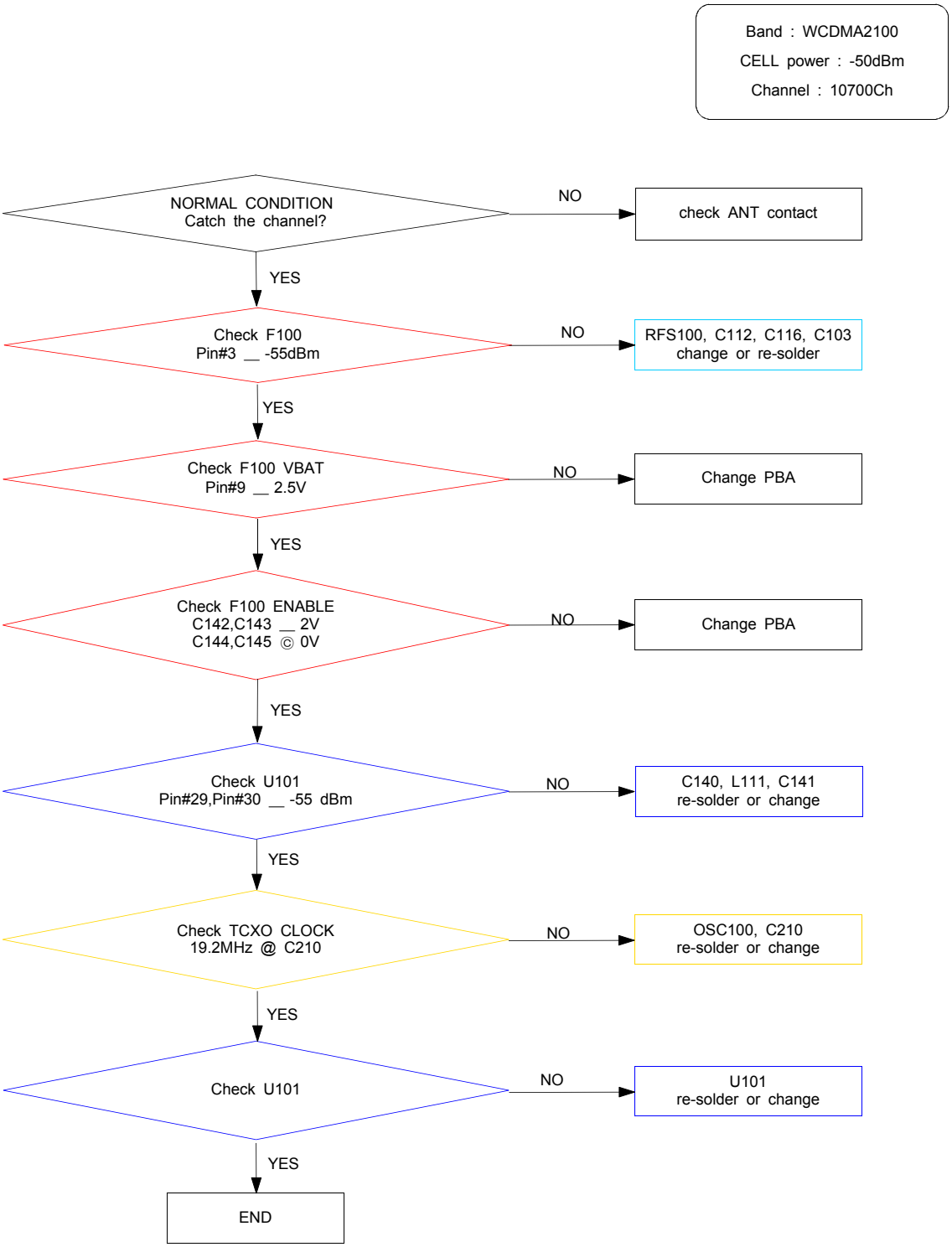
8-3-18. DCS1800 RX



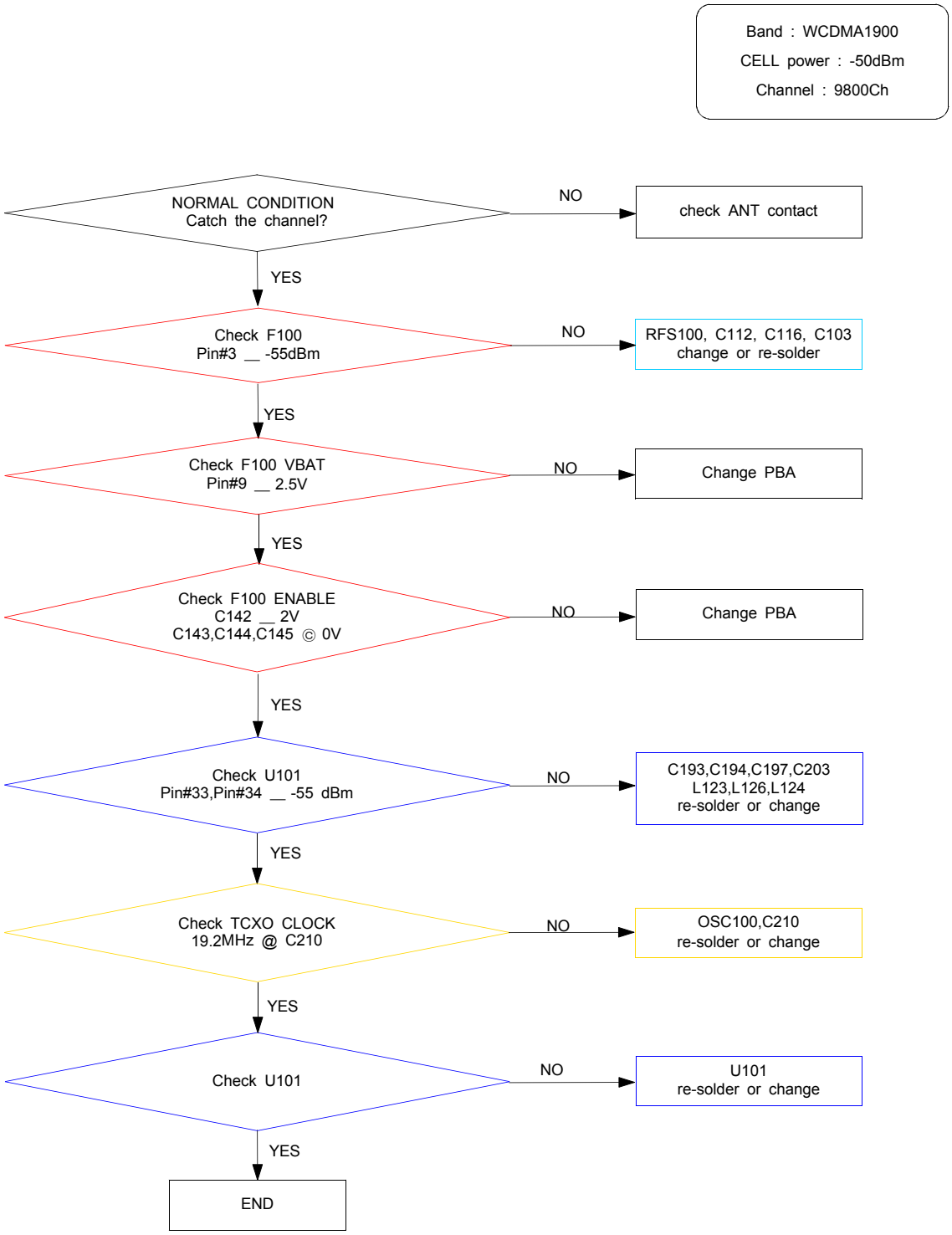
8-3-19. PCS1900 RX



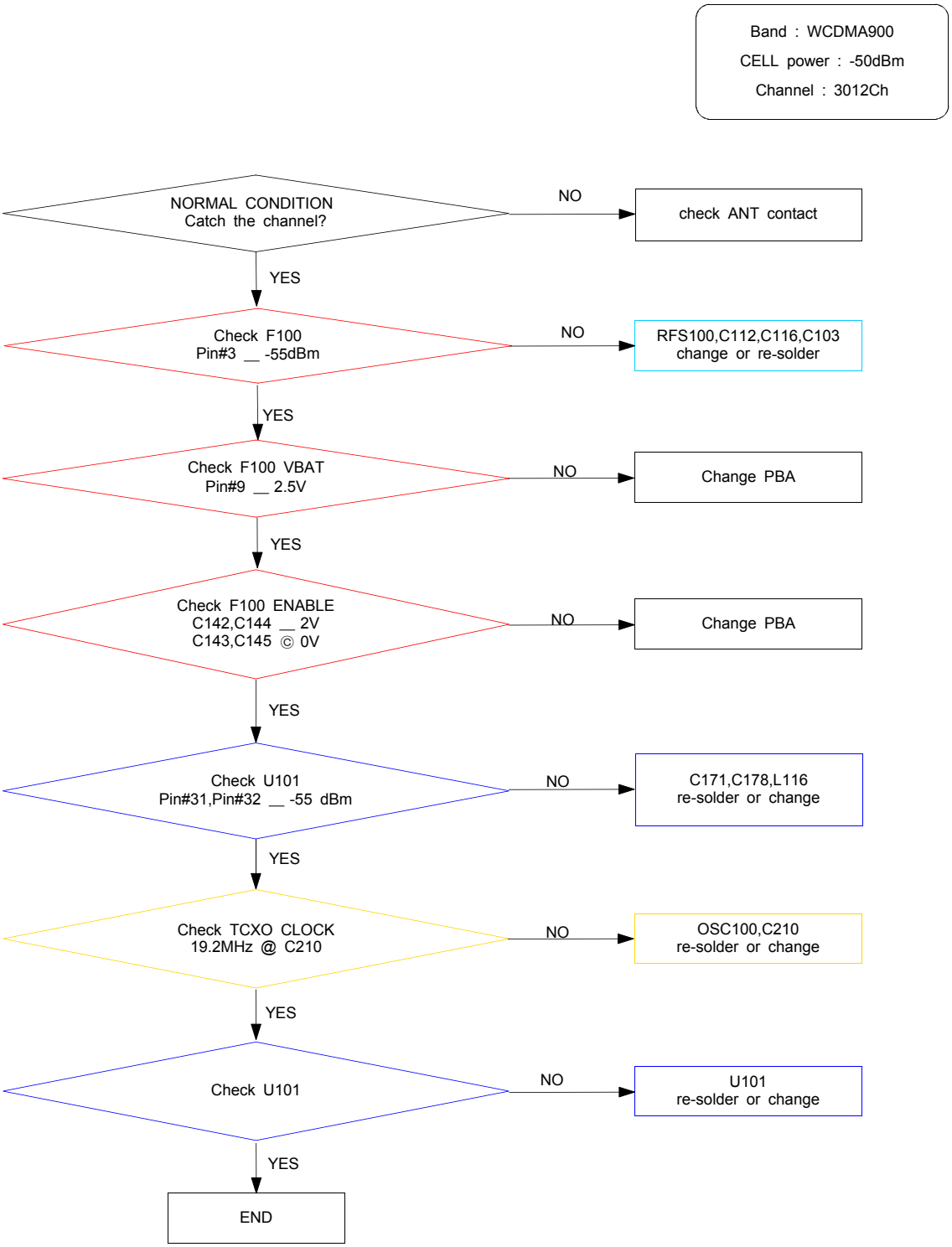
8-3-20. WCDMA2100 RX

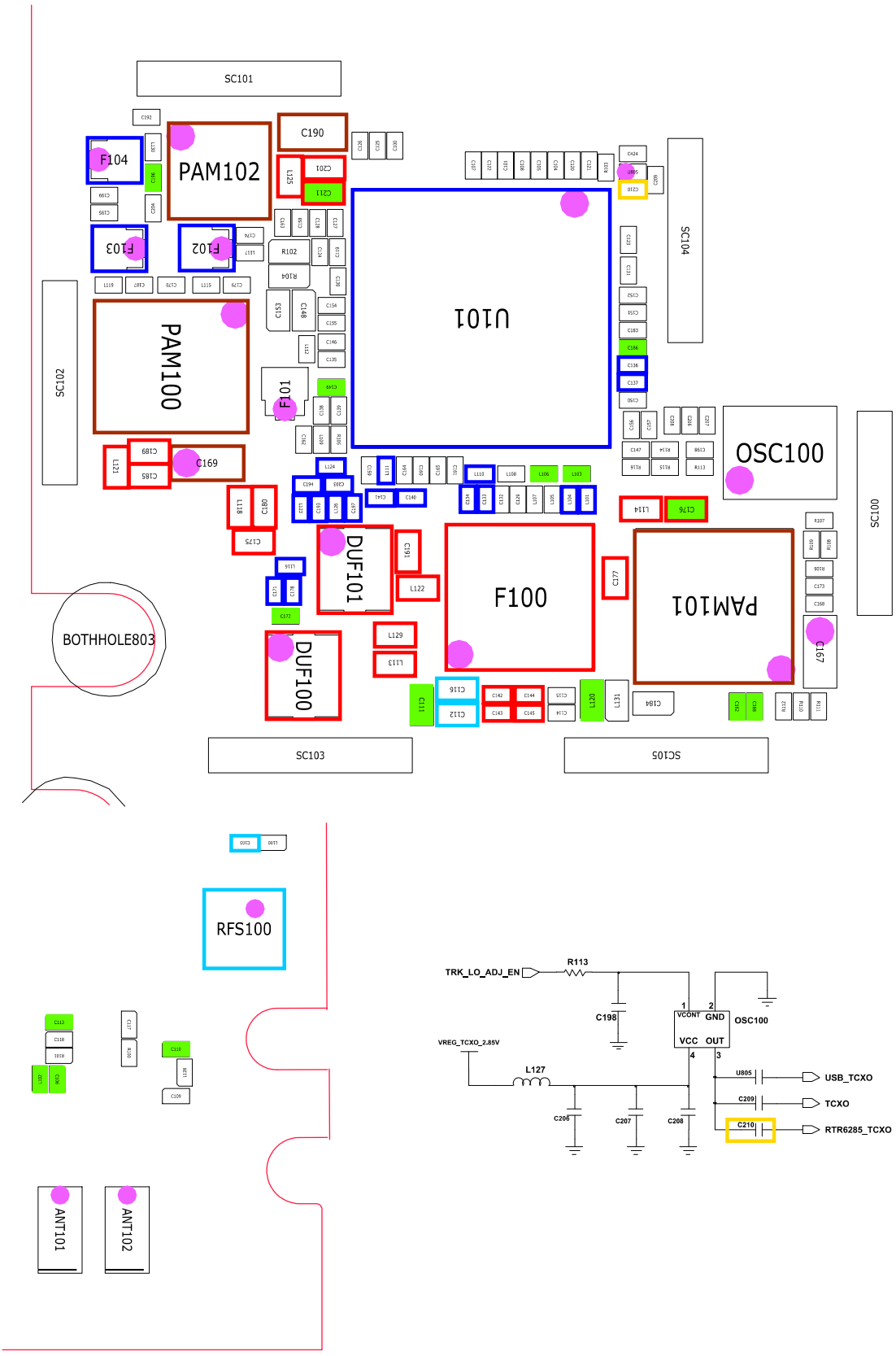


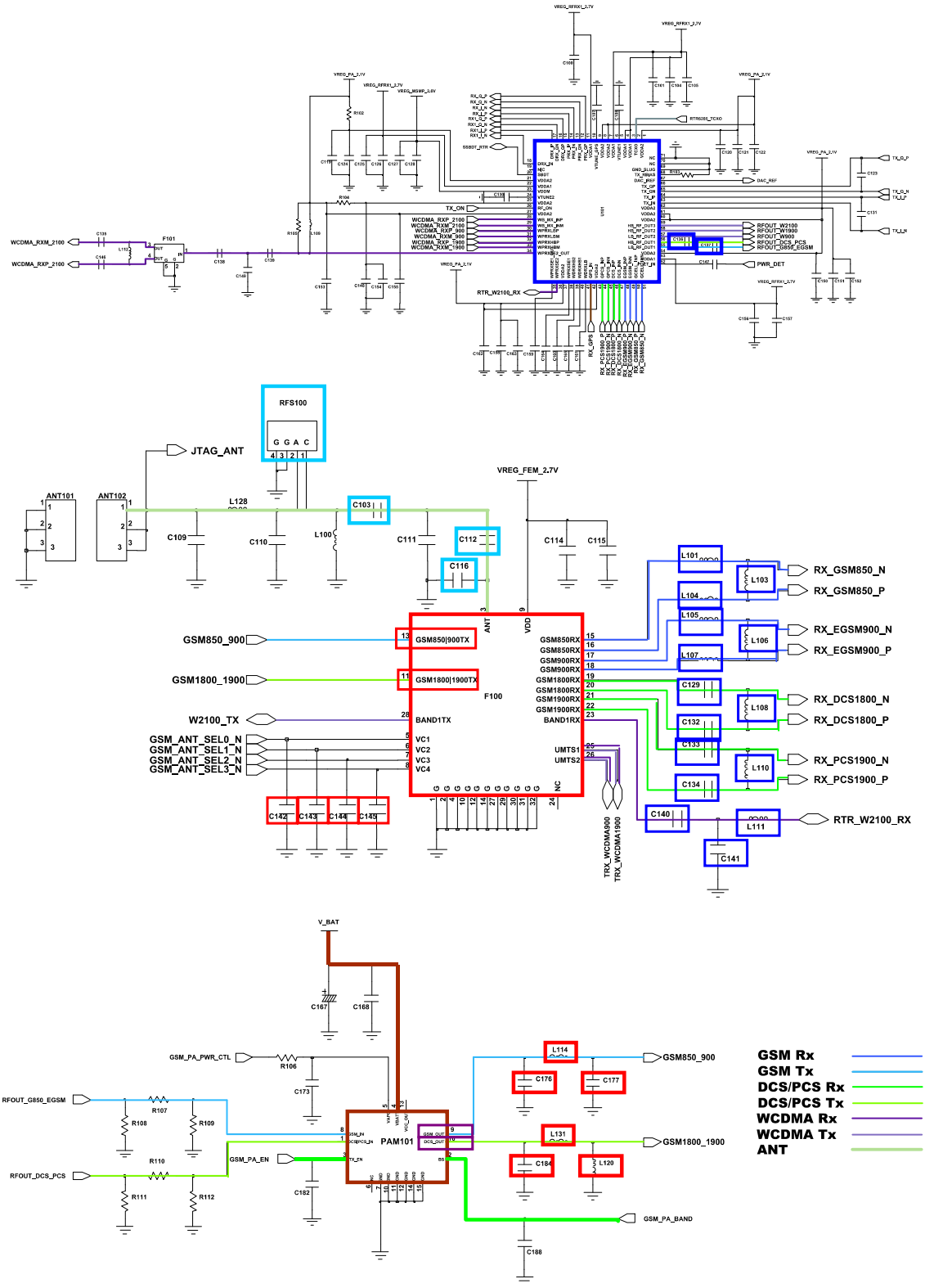
8-3-21. WCDMA1900 RX

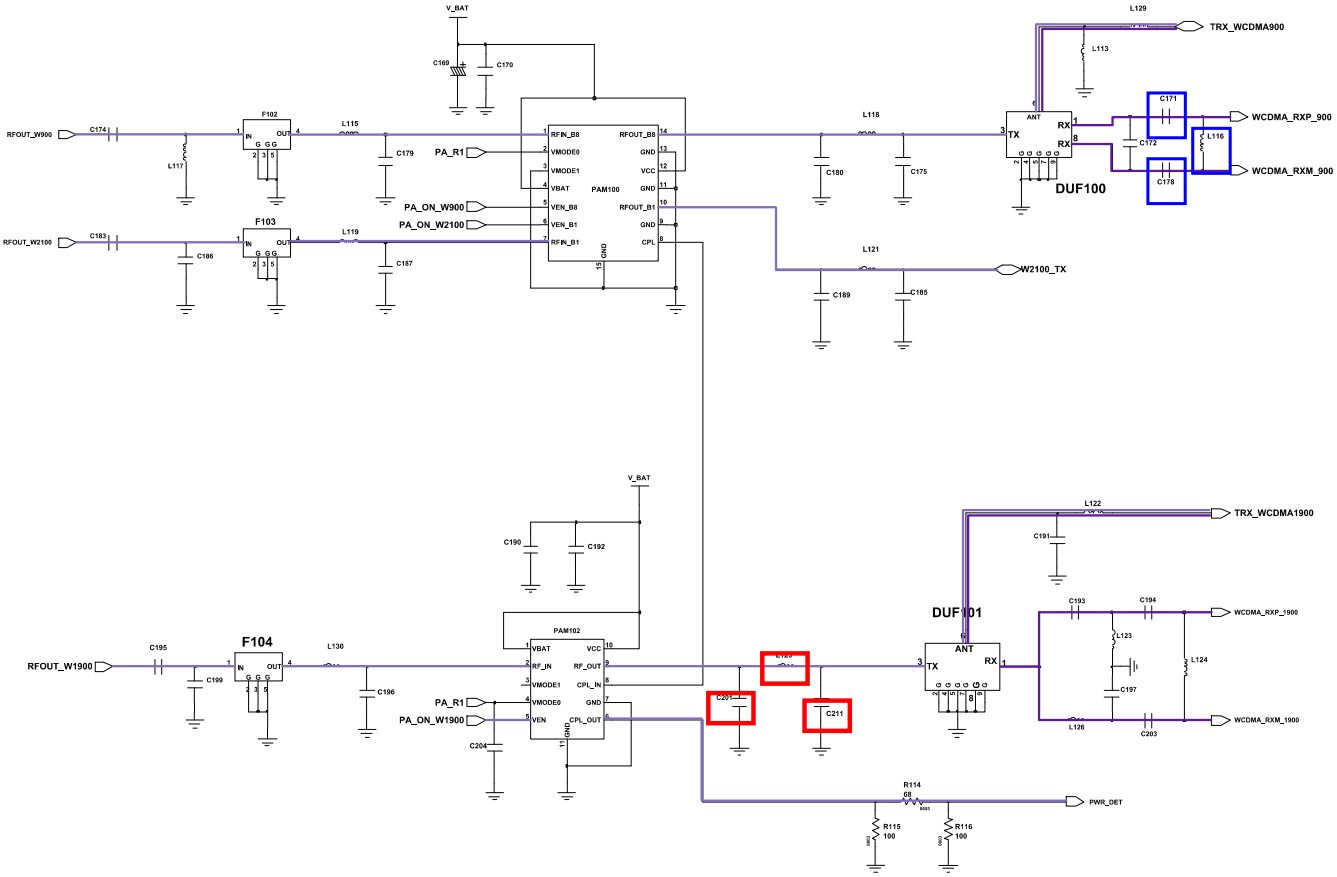


8-3-22. WCDMA900 RX









WCDMA Rx
WCDMA Tx
ANT

8-4. Service Schematics

- NC Point(Top View)

● : NC

U400

	1	2	3	4	5
A	·	·	·	·	·
B	·	··	··	·	·
C	·	·	··	·	·
D	·	·	·	·	·
E	·	·	·	·	·
F	·	·	·	·	·

U600

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B	··	·	·	··
C	·	·	·	·

U800

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D	·	·	·	·	·	·	·	·	··
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G	·	·	··	·	··	··	·	·	·

U401

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UCP800

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A	·	·	·	·	·	·	·	·	·	·	·	·	·	·	··	·	··	·	··	·	·	·	·	·	·	·	·	·
B	·	·	·	·	·	·	·	·	·	·	·	·	·	·	··	·	··	··	··	·	·	·	·	·	·	·	·	·
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AH	·	·	·	··	·	·	·	·	·	·	·	·	·	·	·	·	·	·	··	·	·	·	·	·	·	·	·	·

UME800

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UME801

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N	.	.	.	.	.	.	.	.	.	.
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R	..	..							..	..