

2. Specification

2-1. GSM General Specification

(KYLE : GSM850/900/1800/1900, WCDMA 2100/900)

	GSM850	GSM 900	DCS1800	PCS1900	WCDMA 2100	WCDMA 1900	WCDMA 900	WCDMA 850
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	1852~1907 1932~1987	880~915 925~960	824~849 869~894
ARFCN range	128~251	0~124 & 975~1023	512~885	512~810	UL: 9612~9888 DL: 10562~10838	UL: 9262~9538 DL: 9662~9938	UL: 2712~2863 DL: 2937~3088	UL: 4132~4233 DL: 4357~4458
Tx/Rx spacing	45MHz	45MHz	95MHz	80MHz	190MHz	80MHz	45MHz	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	3.84Mcps	3.84Mcps
Time Slot Period/ Frame Period	576.9us 4.615ms	576.9us 4.615ms	576.9us 4.615ms	576.9us 4.615ms	FrameLength: 10ms Slotlength: 0.667ms	FrameLength: 10ms Slotlength: 0.667ms	FrameLength: 10ms Slotlength: 0.667ms	FrameLength: 10ms Slotlength: 0.667ms
Modulation	0.3GMSK	0.3GMSK	0.3GMSK	0.3GMSK	QPSKHQPS K	QPSKHQPS K	QPSKHQPS K	QPSKHQPS K
MS Power	33dBm~5dB m	33dBm~5dB m	30dBm~0dB m	30dBm~0dB m	24dBm~ -50dBm	24dBm~ -50dBm	24dBm~ -50dBm	24dBm~ -50dBm
Power Class	5pcl ~ 19pcl	5pcl ~ 19pcl	0pcl ~ 15pcl	0pcl ~ 15pcl	3(max+24dB m)	3(max+24dB m)	3(max+24dB m)	3(max+24dB m)
Sensitivity	-102dBm	-102dBm	-100dBm	-100dBm	-106.7dBm	-106.7dBm	-106.7dBm	-106.7dBm
TDMA Mux	8	8	8	8	8	8	8	8
Cell Radius	35Km	35Km	2Km	2Km	2Km	2Km	2Km	2Km

2-2. GSM Tx Power Class

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

3. Operation Instruction and Installation

Main Function

- Android OS: Icecream Sandwich
- MSM7227A Turbo (Cortex A5 1Ghz)
- HSDPA 7.2 Mbps
- 4G Bytes (eMMC) + 6G bits (LPDDR) Memory
- 5MP AF with LED Flash
- 3.97" WVGA LCD
- A-GPS / BT v3.0 / USB v2.0 / WiFi (802.11 b/g/n)
- Sensors: Accelerometer, Compass, Proximity
- Additional :
 - Improved TouchWiz UX
 - Samsung Hub - Social/Music/Game Hub
 - Wi-Fi Direct, Kies Air

6. Level 6 Repair

6-1. S/W installation

6-1-1. Required items in order to install S/W

- Installation program: Downloader Program (**Odin3 v3.04.exe**)
- GT-S7562 Mobile Phone
- Data Cable
- JIG BOX (5902-002550)
- JIG Cable (GH39-01291A)
- Adapter (GH99-38251A)
- Serial Cable
- Mobile device specific S/W: Binary files

※ Settings



Connect ANYWAY JIG BOX
with JIG CABLE (Phone to JIG)
or PC to Phone Using Data Cable



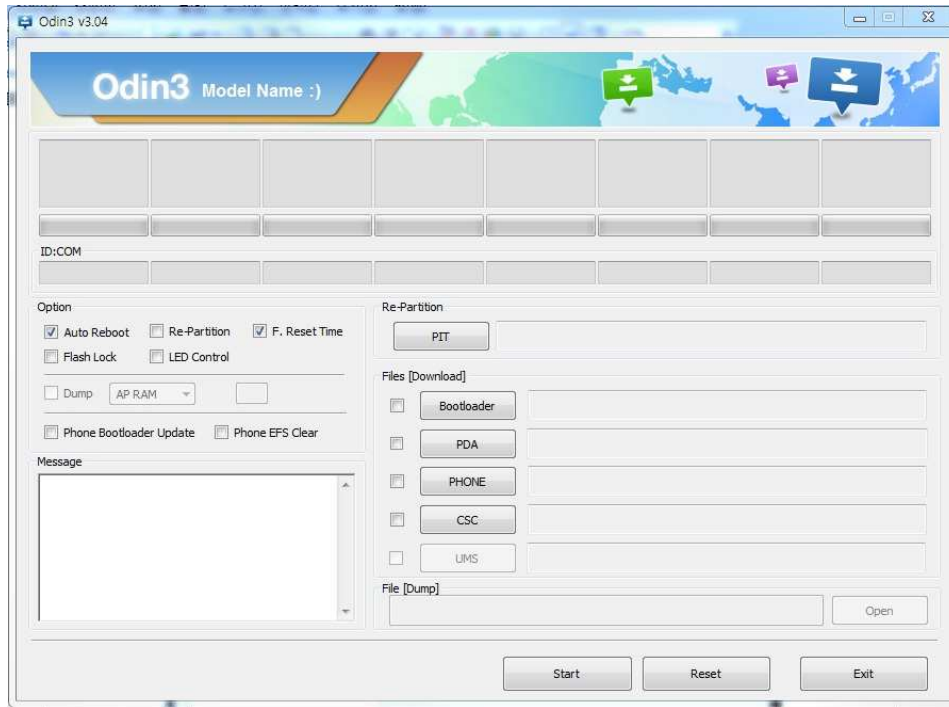
Chipset Solution Switch - 5



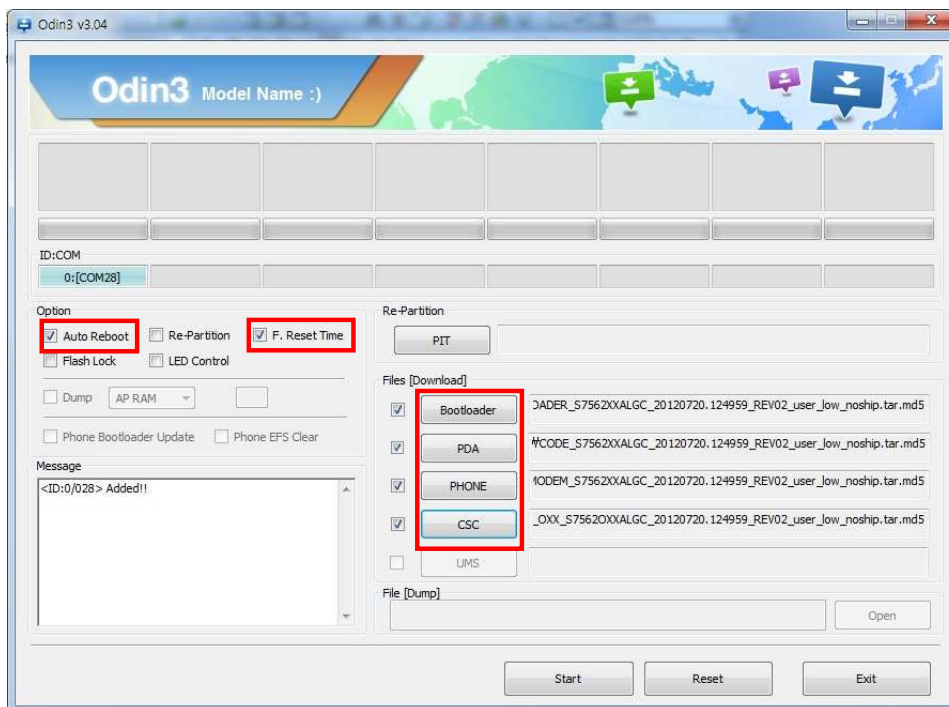
No.	Solution
1	Agere TC
2	HP, Vision, Infineon
3	NXP Sysol
4	NXP Swift Broadcom
5	UMTS (Qualcom)
6	EMP

6-1-2. S/W Installation Program (Downloader program)

- Open up the S/W Installation Program by executing the **"Odin3 v3.04.exe"**

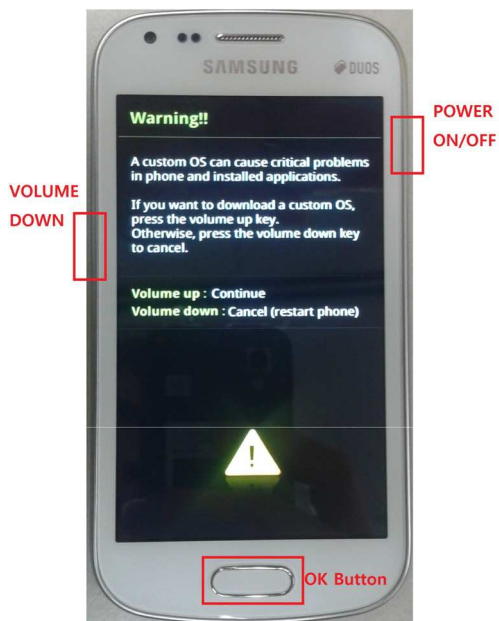


1. Enable the check mark by click on the following options,
 - Check Auto Reboot, and F. Reset Time
 - Check BOOTLOADER, PDA, PHONE, and CSC Files



2. Enter into Download Mode

1. Press Volume Down button, OK button, and ON/OFF Button simultaneously.

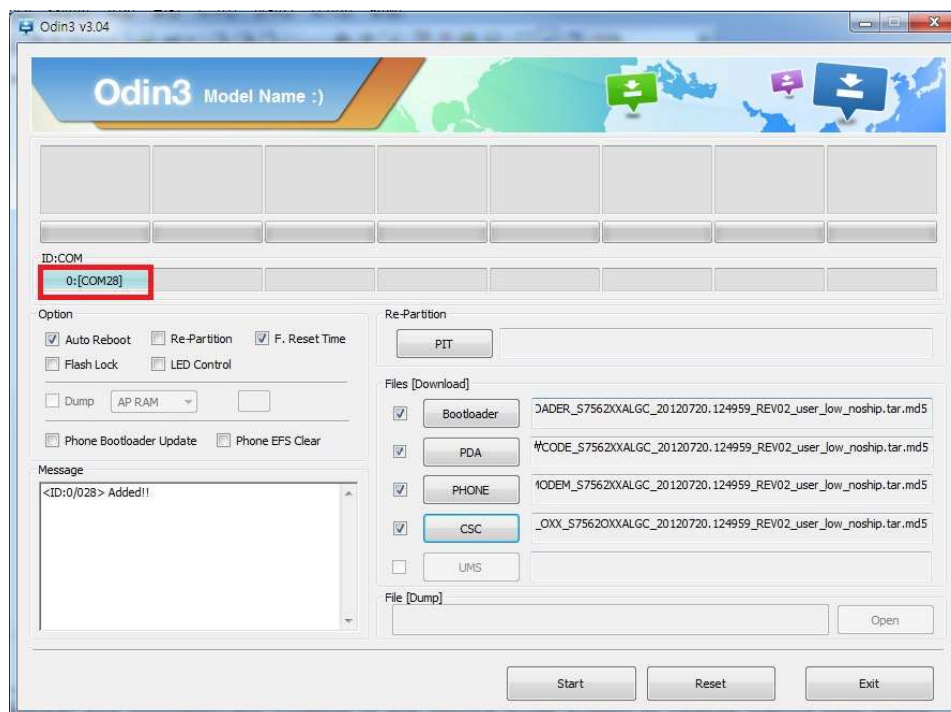


2. After confirm the warning message, Volume UP button press to enter download mode.

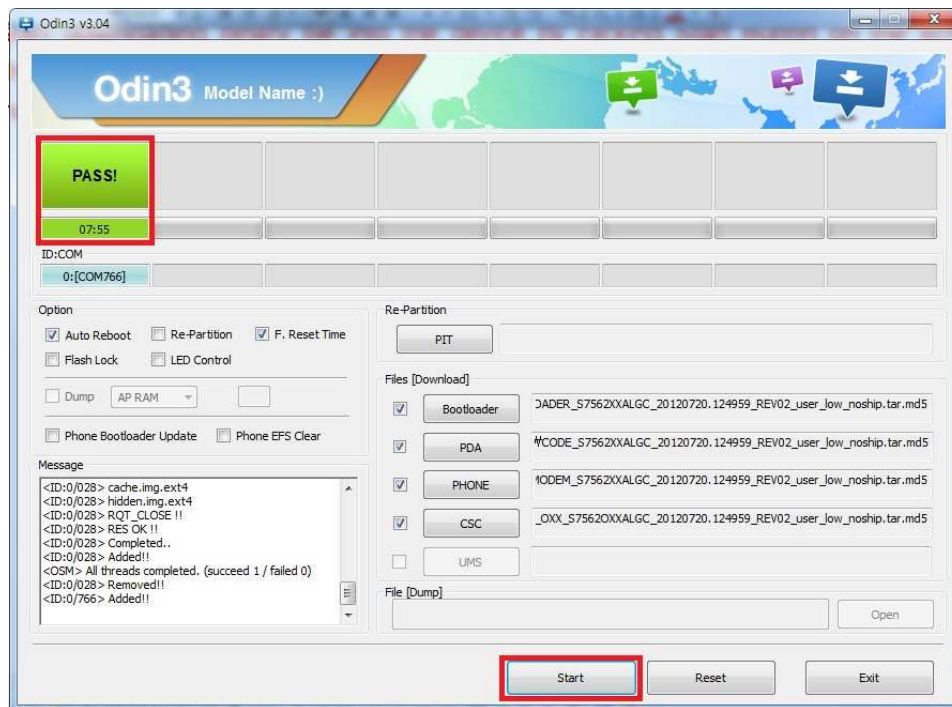


3. Connect the device to PC via Data Cable.

Make sure that the one of communication port [ID:COM] box is pop-up. The device is now connected with the PC and ready to download the binary file into the device.



- Start downloading binary file into the device by clicking Start Button on the screen. the green colored "PASS!" sign will appear on the upper-left box if the binary file has been successfully downloaded into the device.



- Disconnect the device from the Data cable.
- Once the device boots up, you can check the version of the binary file or name by pressing the following code in sequence;
***#1234#**

You can perform full reset by pressing the following code in sequence;

***2767*3855#**

9. Reference Abbreviate

Reference Abbreviate

- AAC: AdvancedAudioCoding.
- AVC: AdvancedVideoCoding.
- BER: BitErrorRate
- BPSK: BinaryPhaseShiftKeying
- CA: ConditionalAccess
- CDM: CodeDivisionMultiplexing
- C/I: Carrier to Interference
- DMB: DigitalMultimediaBroadcasting
- E: European Standard
- ES: ElementaryStream
- ETSI: EuropeanTelecommunicationsStandardsInstitute
- MPEG: MovingPictureExpertsGroup
- PN: Pseudo-randomNoise
- PS: PilotSymbol
- QPSK: QuadraturePhaseShiftKeying
- RS: Reed-Solomon
- SI: ServiceInformation
- TDM: TimeDivisionMultiplexing
- TS: TransportStream

1. Safety Precautions

1-1. Repair Precaution

Before attempting any repair or detailed tuning, shield the device from RF noise or static electricity discharges.

Use only demagnetized tools that are specifically designed for small electronic repairs, as most electronic parts are sensitive to electromagnetic forces.

Use only high quality screwdrivers when servicing products. Low quality screwdrivers can easily damage the heads of screws.

Use only conductor wire of the properly gauge and insulation for low resistance, because of the low margin of error of most testing equipment.

We recommend 22-gauge twisted copper wire.

Hand-soldering is not recommended, because printed circuit boards (PCBs) can be easily damaged, even with relatively low heat. Never use a soldering iron with a power rating of more than 100 watts and use only lead-free solder with a melting point below 250°C (482°F).

Prior to disassembling the battery charger for repair, ensure that the AC power is disconnected. Always use the replacement parts that are registered in the SEC system. Third-party replacement parts may not function properly.

1-2. ESD(Electrostatically Sensitive Devices) Precaution

Many semiconductors and ESDs in electronic devices are particularly sensitive to static discharge and can be easily damaged by it. We recommend protecting these components with conductive anti-static bags when you store or transport them.

Always use an anti-static strap or wristband and remove electrostatic buildup or dissipate static electricity from your body before repairing ESDs.

Ensure that soldering irons have AC adapter with ground wires and that the ground wires are properly connected.

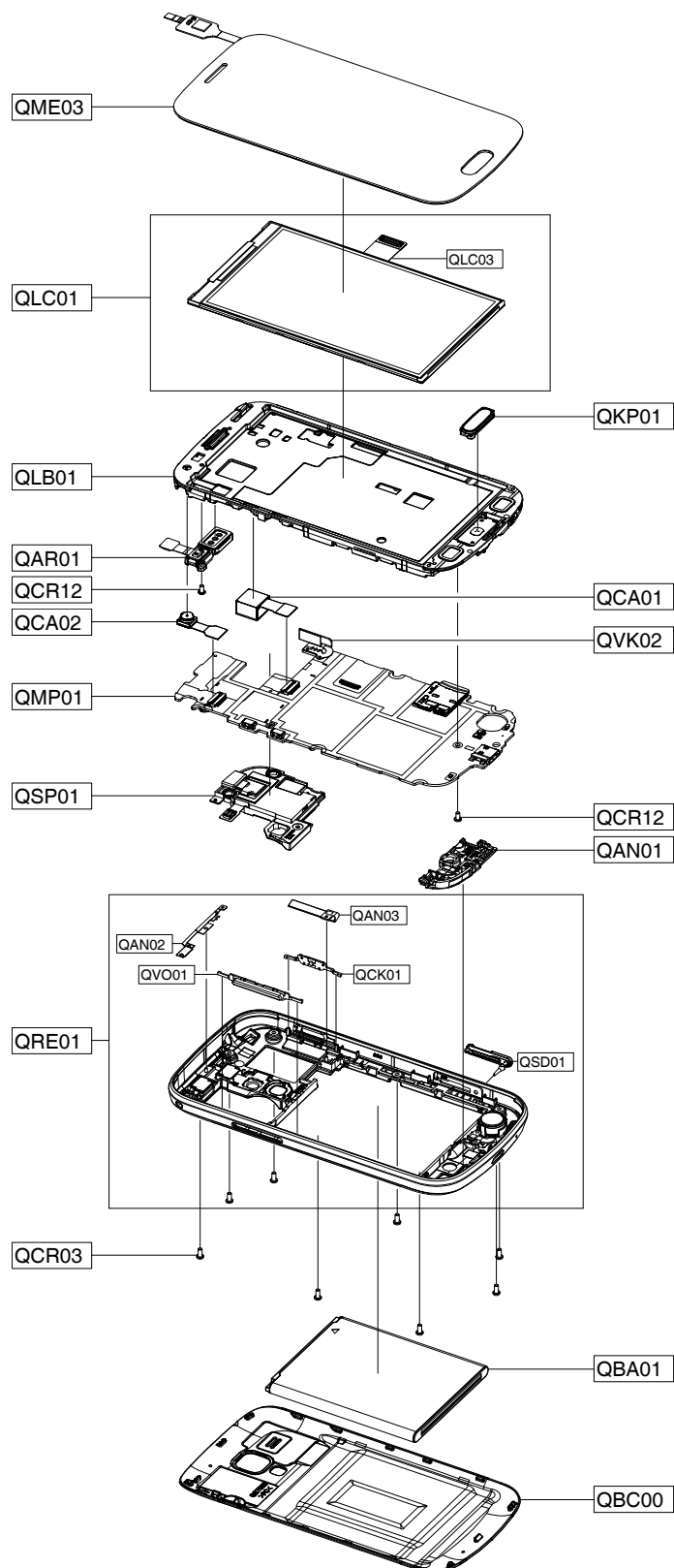
Use only desoldering tools with plastic tips to prevent static discharge.

Properly shield the work environment from accidental electrostatic discharge before opening packages containing ESDs.

The potential for static electricity discharge may be increased in low humidity environments, such as air-conditioned rooms. Increase the airflow to the working area to decrease the chance of accidental static electricity discharges.

4. Exploded View and Parts List

4-1. Cellular phone Exploded View



5. MAIN Electrical Parts List

SEC CODE	Design LOC	Description
0401-001110	D500	DIODE-SWITCHING
0403-001870	ZD702	DIODE-ZENER
0404-001646	D600	DIODE-SCHOTTKY
0406-001361	ZD703	DIODE-TVS
0406-001413	ZD502,ZD503	DIODE-TVS
0406-001505	ZD504,ZD505,ZD704	DIODE-TVS
0406-001514	ZD501	DIODE-TVS
0406-001526	ZD701	DIODE-TVS
0505-001165	Q400	FET-SILICON
0505-002388	Q600	FET-SILICON
0601-002846	LED700,LED701	LED
0601-003257	LED600	LED
0801-003271	U606	IC-LOGIC
0801-003411	U703	IC-LOGIC
1001-001645	U701	IC-ANALOG MULTIPLEX
1108-000480	UME300	IC-MCP
1201-003261	U200	IC-RF AMP
1201-003321	PAM101	IC-POWER AMP
1201-003324	PAM100	IC-POWER AMP
1201-003367	U100	IC-POWER AMP
1202-001120	U501	IC-VOLTAGE COMP.
1203-005485	U605	IC-POSIFIXED REG.
1203-005512	U702	IC-POSIFIXED REG.
1203-005580	U603	IC-POSIFIXED REG.
1203-006159	U601	IC-DC/DC CONVERTER
1203-006873	U604	IC-POSIFIXED REG.
1203-007145	PM400	IC-POWER SUPERVISOR
1203-007197	U602	IC-BACKLIGHT DRIVER
1203-007288	U600	IC-DC/DC CONVERTER
1203-007294	U203	IC-POSIFIXED REG.
1203-007493	U400	IC-POWER SUPERVISOR
1205-004137	U201	IC-BLUETOOTH
1205-004409	U103	IC-TRANSCEIVER
1205-004416	UCP300	IC-MODEM
1205-004417	U204	IC-WIFI
1205-004535	U700	IC-SWITCH

SEC CODE	Design LOC	Description
1209-002023	U401	IC-SENSOR
1209-002144	U402	IC-SENSOR
1404-001728	TH300	THERMISTOR-NTC
1405-001346	VR500,VR501,VR502	VARISTOR
1405-001346	VR503,VR504,VR600	VARISTOR
1405-001346	VR700,VR701,ZD700	VARISTOR
2007-000138	R114,R115,R117	R-CHIP
2007-000140	R111	R-CHIP
2007-000141	R106,R313,R314,R315	R-CHIP
2007-000141	R316,R321,R322,R327	R-CHIP
2007-000141	R328,R600,R601,R602	R-CHIP
2007-000143	R419,R722	R-CHIP
2007-000148	R318,R335,R344,R402	R-CHIP
2007-000148	R403,R408,R500,R524	R-CHIP
2007-000148	R609,R610,R614,R619	R-CHIP
2007-000148	R620,R621,R622,R624	R-CHIP
2007-000148	R715,R718,R726	R-CHIP
2007-000151	R719,R720	R-CHIP
2007-000153	R401	R-CHIP
2007-000157	R201,R202,R518,R519	R-CHIP
2007-000157	R605,R708,R709,R710	R-CHIP
2007-000157	R711,R712	R-CHIP
2007-000162	R310,R319,R336,R522	R-CHIP
2007-000163	R523,R611	R-CHIP
2007-000165	R603	R-CHIP
2007-000168	R420,R627,R628	R-CHIP
2007-000170	R507	R-CHIP
2007-000172	R502,R629,R704,R707	R-CHIP
2007-000172	R714,R724	R-CHIP
2007-000566	R607,R612	R-CHIP
2007-000758	R604,R725	R-CHIP
2007-001291	R700	R-CHIP
2007-001295	R505	R-CHIP
2007-001298	R102,R405	R-CHIP
2007-001301	R113	R-CHIP
2007-001311	R100,R717	R-CHIP

SEC CODE	Design LOC	Description
2007-001313	R101,R716	R-CHIP
2007-001317	R606	R-CHIP
2007-001339	R410,R508,R713	R-CHIP
2007-003013	R615	R-CHIP
2007-003015	R705,R706	R-CHIP
2007-003020	R618	R-CHIP
2007-003029	R509	R-CHIP
2007-003112	R311	R-CHIP
2007-007014	R301,R302,R303,R304	R-CHIP
2007-007014	R305,R306,R307,R308	R-CHIP
2007-007014	R309	R-CHIP
2007-007135	R626	R-CHIP
2007-007137	R512	R-CHIP
2007-007139	R340,R342	R-CHIP
2007-007309	R116	R-CHIP
2007-007318	R513	R-CHIP
2007-007798	R613	R-CHIP
2007-008298	R333	R-CHIP
2007-008597	R205	R-CHIP
2007-010233	R337	R-CHIP
2203-000138	C214	C-CERAMIC,CHIP
2203-000233	C107,C250,C637	C-CERAMIC,CHIP
2203-000254	C178,C179,C181,C202	C-CERAMIC,CHIP
2203-000254	C450	C-CERAMIC,CHIP
2203-000278	C161,C182,C216,C224	C-CERAMIC,CHIP
2203-000278	C231,C238,C239	C-CERAMIC,CHIP
2203-000359	C410,C411	C-CERAMIC,CHIP
2203-000386	C508,C515,C516,C526	C-CERAMIC,CHIP
2203-000386	C527	C-CERAMIC,CHIP
2203-000438	C113,C172,C180	C-CERAMIC,CHIP
2203-000489	C347	C-CERAMIC,CHIP
2203-000679	C171,C215,C233,C240	C-CERAMIC,CHIP
2203-000679	C242	C-CERAMIC,CHIP
2203-000696	C249	C-CERAMIC,CHIP
2203-000714	C433	C-CERAMIC,CHIP
2203-000812	C106,C170,C175,C207	C-CERAMIC,CHIP

SEC CODE	Design LOC	Description
2203-000812	C208,C500,C502,C513	C-CERAMIC,CHIP
2203-000812	C514,C525,C707	C-CERAMIC,CHIP
2203-000854	C184	C-CERAMIC,CHIP
2203-000940	C241	C-CERAMIC,CHIP
2203-000995	C176,C506,C507,C630	C-CERAMIC,CHIP
2203-001033	C509	C-CERAMIC,CHIP
2203-001072	C128	C-CERAMIC,CHIP
2203-001153	C167,C168,C174,C512	C-CERAMIC,CHIP
2203-001153	C528	C-CERAMIC,CHIP
2203-001239	C164,C165,C169,C627	C-CERAMIC,CHIP
2203-001239	C628	C-CERAMIC,CHIP
2203-002487	C511	C-CERAMIC,CHIP
2203-002709	C401,C441,C711,C712	C-CERAMIC,CHIP
2203-003054	C109	C-CERAMIC,CHIP
2203-005056	C121,C122,C127,C129	C-CERAMIC,CHIP
2203-005234	C108,C162,C166	C-CERAMIC,CHIP
2203-005249	C607	C-CERAMIC,CHIP
2203-005281	C124,C209	C-CERAMIC,CHIP
2203-005383	C246	C-CERAMIC,CHIP
2203-005395	C243	C-CERAMIC,CHIP
2203-005993	C519,C520	C-CERAMIC,CHIP
2203-006047	C409,C412	C-CERAMIC,CHIP
2203-006048	C139,C140,C141,C142	C-CERAMIC,CHIP
2203-006048	C143,C146,C147,C148	C-CERAMIC,CHIP
2203-006048	C149,C150,C151,C159	C-CERAMIC,CHIP
2203-006048	C173,C201,C226,C232	C-CERAMIC,CHIP
2203-006048	C300,C301,C303,C304	C-CERAMIC,CHIP
2203-006048	C309,C314,C325,C326	C-CERAMIC,CHIP
2203-006048	C327,C328,C329,C330	C-CERAMIC,CHIP
2203-006048	C331,C343,C345,C346	C-CERAMIC,CHIP
2203-006048	C440,C447,C448,C455	C-CERAMIC,CHIP
2203-006048	C510,C521,C523,C617	C-CERAMIC,CHIP
2203-006048	C708	C-CERAMIC,CHIP
2203-006208	C501,C602	C-CERAMIC,CHIP
2203-006257	C205,C310,C311,C313	C-CERAMIC,CHIP
2203-006257	C316,C317,C318,C319	C-CERAMIC,CHIP

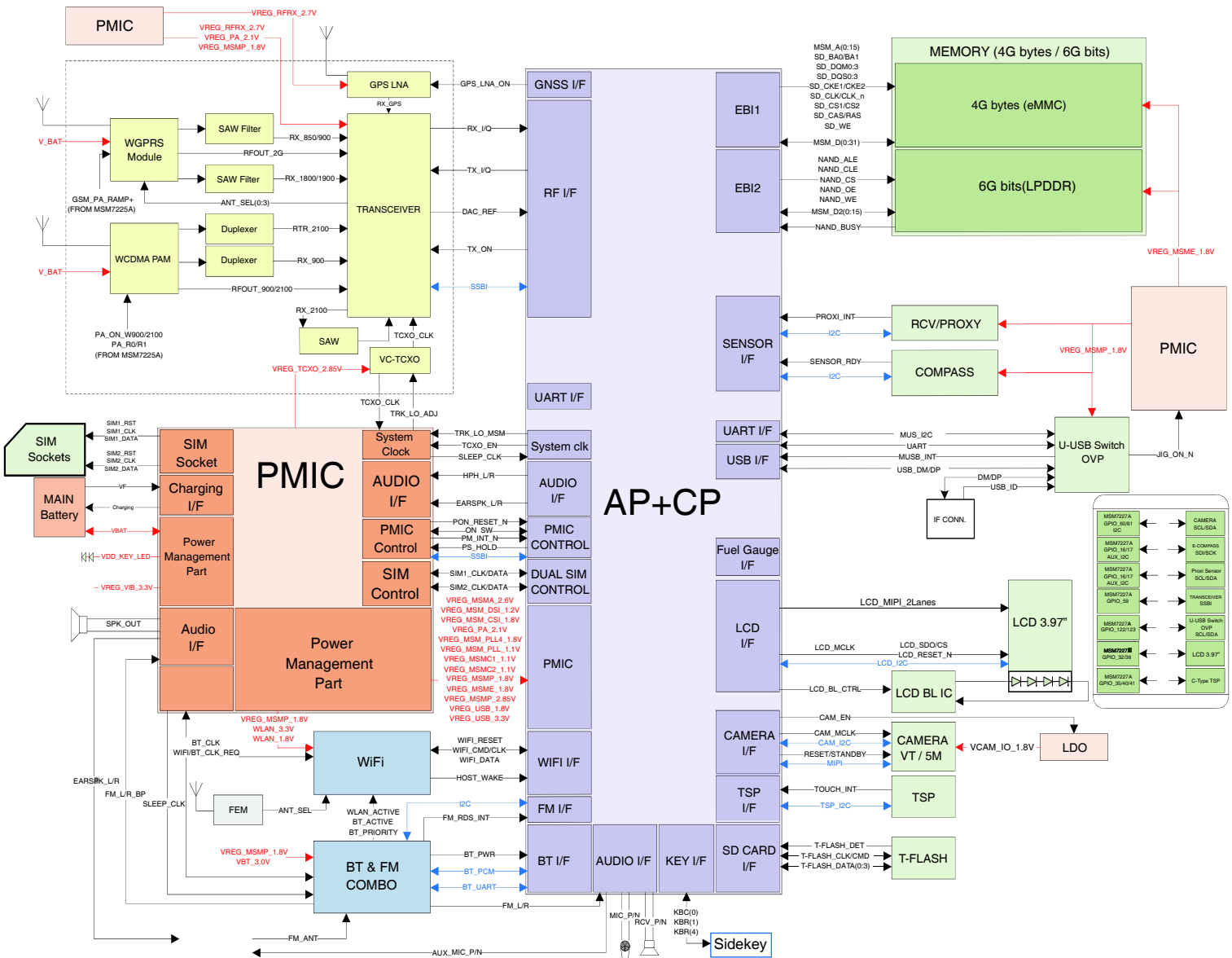
SEC CODE	Design LOC	Description
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2203-006257	C324,C332,C333,C334	C-CERAMIC,CHIP
2203-006257	C335	C-CERAMIC,CHIP
2203-006324	C431,C432,C434,C453	C-CERAMIC,CHIP
2203-006324	C635	C-CERAMIC,CHIP
2203-006399	C218,C219,C244,C306	C-CERAMIC,CHIP
2203-006399	C312,C315,C336,C337	C-CERAMIC,CHIP
2203-006399	C338,C339,C340,C348	C-CERAMIC,CHIP
2203-006399	C402,C414,C415,C416	C-CERAMIC,CHIP
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2203-006399	C454,C503,C504,C505	C-CERAMIC,CHIP
2203-006399	C522,C604,C605,C606	C-CERAMIC,CHIP
2203-006399	C608,C609,C610,C620	C-CERAMIC,CHIP
2203-006399	C623,C624,C626,C704	C-CERAMIC,CHIP
2203-006399	C710,C719	C-CERAMIC,CHIP
2203-006562	C152,C245,C404,C600	C-CERAMIC,CHIP
2203-006562	C601,C603,C619,C622	C-CERAMIC,CHIP
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2203-006824	C101,C118,C405,C442	C-CERAMIC,CHIP
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2203-006841	C302	C-CERAMIC,CHIP
2203-006844	C618	C-CERAMIC,CHIP
2203-006872	C406,C407,C638,C639	C-CERAMIC,CHIP
2203-006978	C705	C-CERAMIC,CHIP
2203-007133	C636	C-CERAMIC,CHIP
2203-007240	C307,C308,C435,C436	C-CERAMIC,CHIP
2203-007240	C437,C438,C439,C518	C-CERAMIC,CHIP
2203-007269	C403	C-CERAMIC,CHIP
2203-007271	C200,C203,C204,C217	C-CERAMIC,CHIP
2203-007271	C227,C228,C229,C230	C-CERAMIC,CHIP
2203-007271	C234,C235,C236,C237	C-CERAMIC,CHIP
2203-007271	C341,C700	C-CERAMIC,CHIP

SEC CODE	Design LOC	Description
2203-007279	C112	C-CERAMIC,CHIP
2203-007317	C144,C145	C-CERAMIC,CHIP
2203-007634	C616	C-CERAMIC,CHIP
2203-007693	C400,C702	C-CERAMIC,CHIP
2203-007701	C706	C-CERAMIC,CHIP
2203-007840	C305,C614,C615	C-CERAMIC,CHIP
2409-001239	BAT400	C-EDL
2703-001737	L106,L119	INDUCTOR-SMD
2703-001749	L135,L136	INDUCTOR-SMD
2703-001751	L103,L104,L128	INDUCTOR-SMD
2703-001752	L105,L206	INDUCTOR-SMD
2703-002170	L114,L142	INDUCTOR-SMD
2703-002198	L115,L127,L132	INDUCTOR-SMD
2703-002200	L109,L112,L117	INDUCTOR-SMD
2703-002203	L108	INDUCTOR-SMD
2703-002204	L134,L137	INDUCTOR-SMD
2703-002207	L101,L118	INDUCTOR-SMD
2703-002208	L102,L131	INDUCTOR-SMD
2703-002267	L113,L120,L202	INDUCTOR-SMD
2703-002268	C120,C123,L111,L201	INDUCTOR-SMD
2703-002269	L107,L116	INDUCTOR-SMD
2703-002308	L701	INDUCTOR-SMD
2703-002313	L203,L204	INDUCTOR-SMD
2703-002367	L100,L123,L129,L139	INDUCTOR-SMD
2703-002367	L140	INDUCTOR-SMD
2703-002368	L110	INDUCTOR-SMD
2703-003001	L300	INDUCTOR-SMD
2703-003485	L604	INDUCTOR-SMD
2703-003685	L602	INDUCTOR-SMD
2703-003686	L405	INDUCTOR-SMD
2703-003878	L504	INDUCTOR-SMD
2703-003911	L601	INDUCTOR-SMD
2703-003913	L402,L403,L404	INDUCTOR-SMD
2801-003856	OSC400	CRYSTAL-SMD
2809-001386	OSC100	OSCILLATOR-VCTCXO
2904-001696	F201	FILTER-GPS SAW

SEC CODE	Design LOC	Description
2904-001702	F106	FILTER-SAW
2904-001929	F200	FILTER-GPS SAW
2904-002031	F101	FILTER-SAW
2904-002039	F103	FILTER-SAW
2910-000128	F100	DUPLEXER-SAW
2910-000149	F102	DUPLEXER-SAW
2911-000194	F202	DUPLEXER-FEM
3003-001138	MIC500	MIC MEMS
3301-001534	L200,L600	BEAD-SMD
3301-001682	L208	BEAD-SMD
3301-001729	L505	BEAD-SMD
3301-001756	L130	BEAD-SMD
3301-001812	L605	BEAD-SMD
3301-001820	L121	BEAD-SMD
3301-001885	L500,L501,L502,L503	BEAD-SMD
3301-002000	L133	BEAD-SMD
3301-002062	L400,L401	BEAD-SMD
3301-002063	L603	BEAD-SMD
3404-001152	TACT700,TACT701	SWITCH-TACT
3705-001731	RFS100	CONNECTOR-COAXIAL
3708-002222	HDC601,HDC602	CONNECTOR-FPC/FFC/PIC
3709-001685	SIM700	CONNECTOR-CARD EDGE
3709-001734	SD700	CONNECTOR-CARD SLOT
3711-007107	HDC600	HEADER-BOARD TO BOARD
3711-007478	HDC500,HDC501	HEADER-BOARD TO BOARD
3711-008286	BTC700	HEADER-BATTERY
3712-001375	ANT100,ANT101,ANT200	CONNECTOR-TERMINAL
3712-001375	ANT201,HOME700	CONNECTOR-TERMINAL
3712-001375	HOME701,MOT500	CONNECTOR-TERMINAL
3712-001375	MOT501	CONNECTOR-TERMINAL
3722-003531	IFC700	JACK-MINI USB
GH80-03320A	R105,R112,R345,R412	SOLDER-CREAM/SMT KOREA(FREE)
GH80-03320A	R417	SOLDER-CREAM/SMT KOREA(FREE)

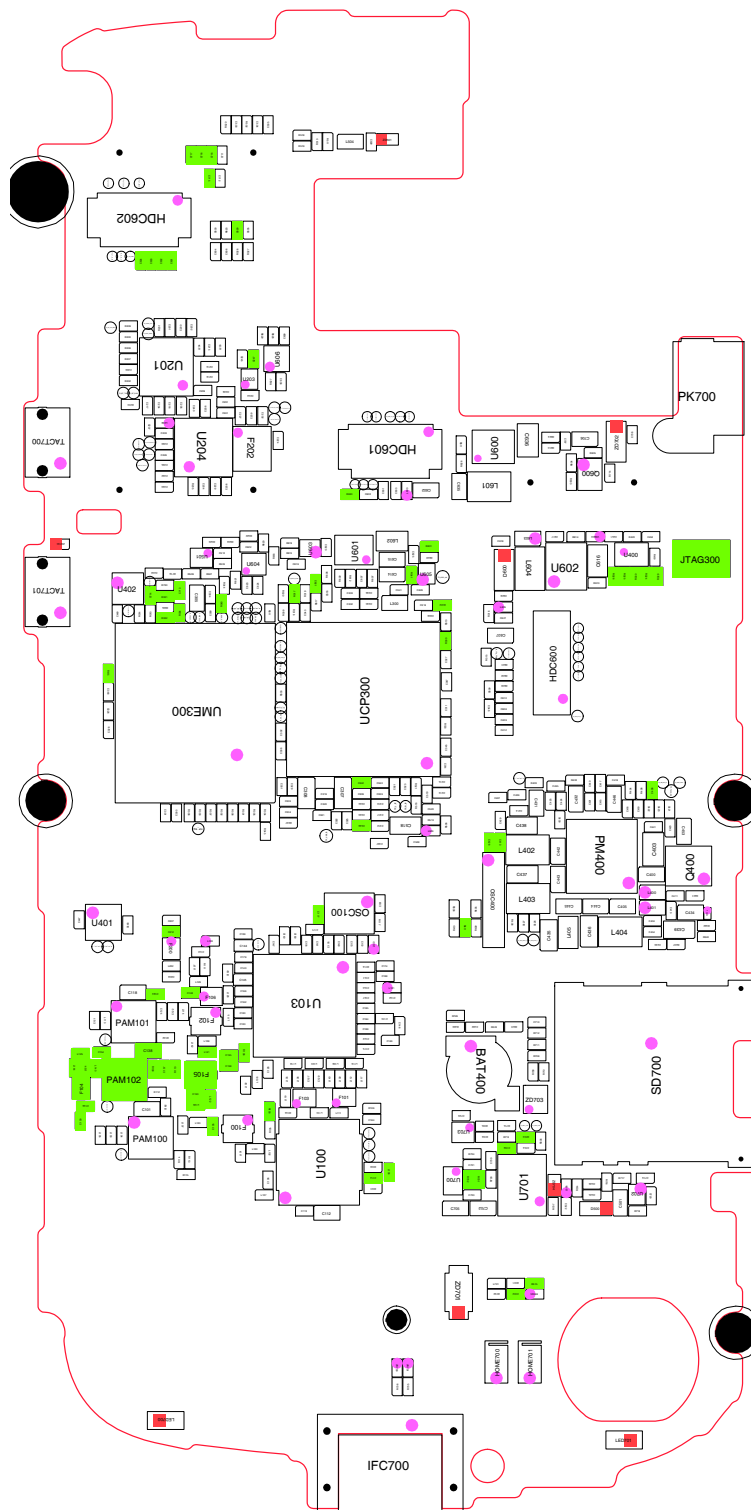
8. Level 3 Repair

8-1. Block Diagram

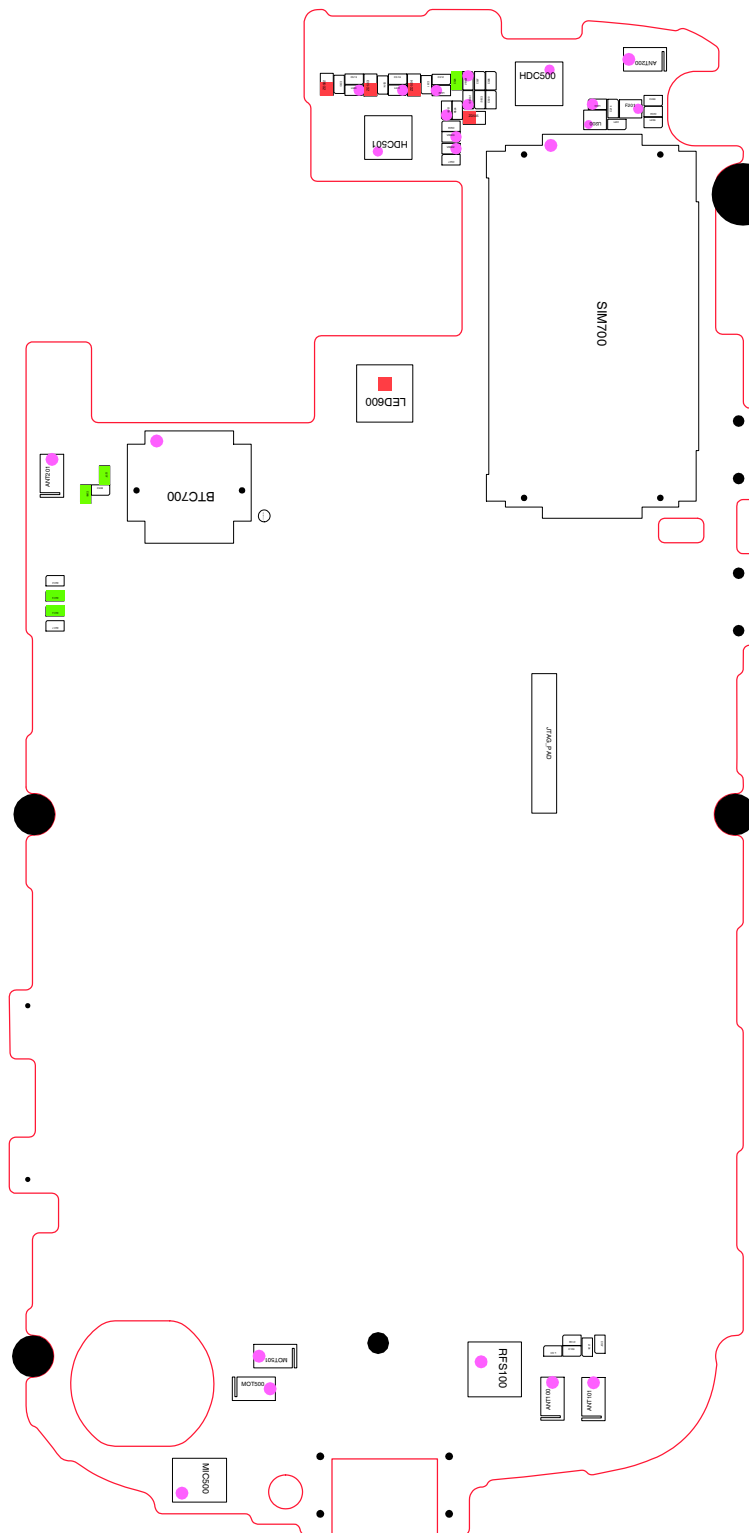


8-2. PCB Diagrams

8-2-1. Top

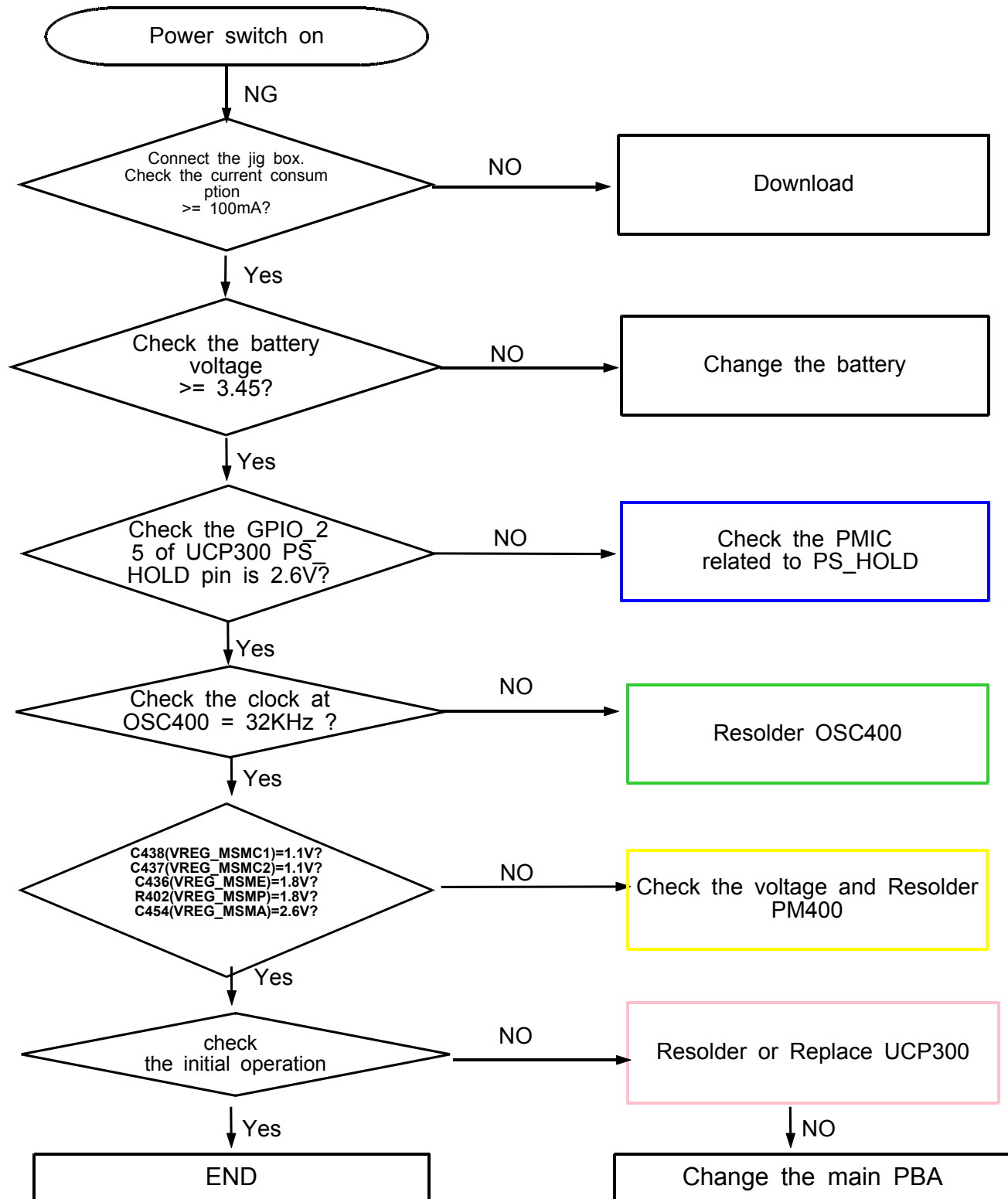


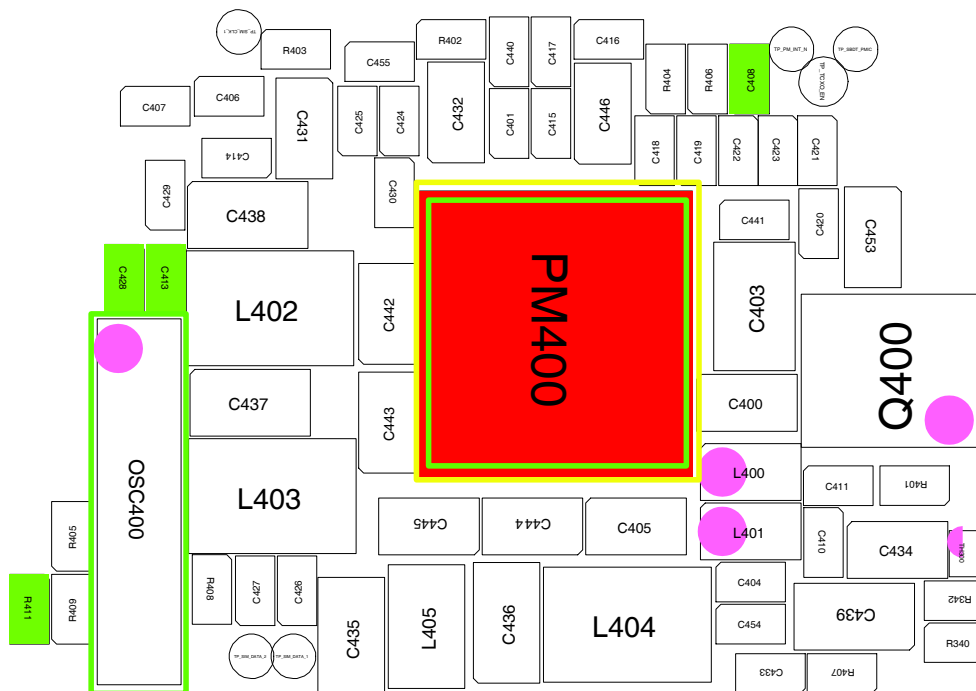
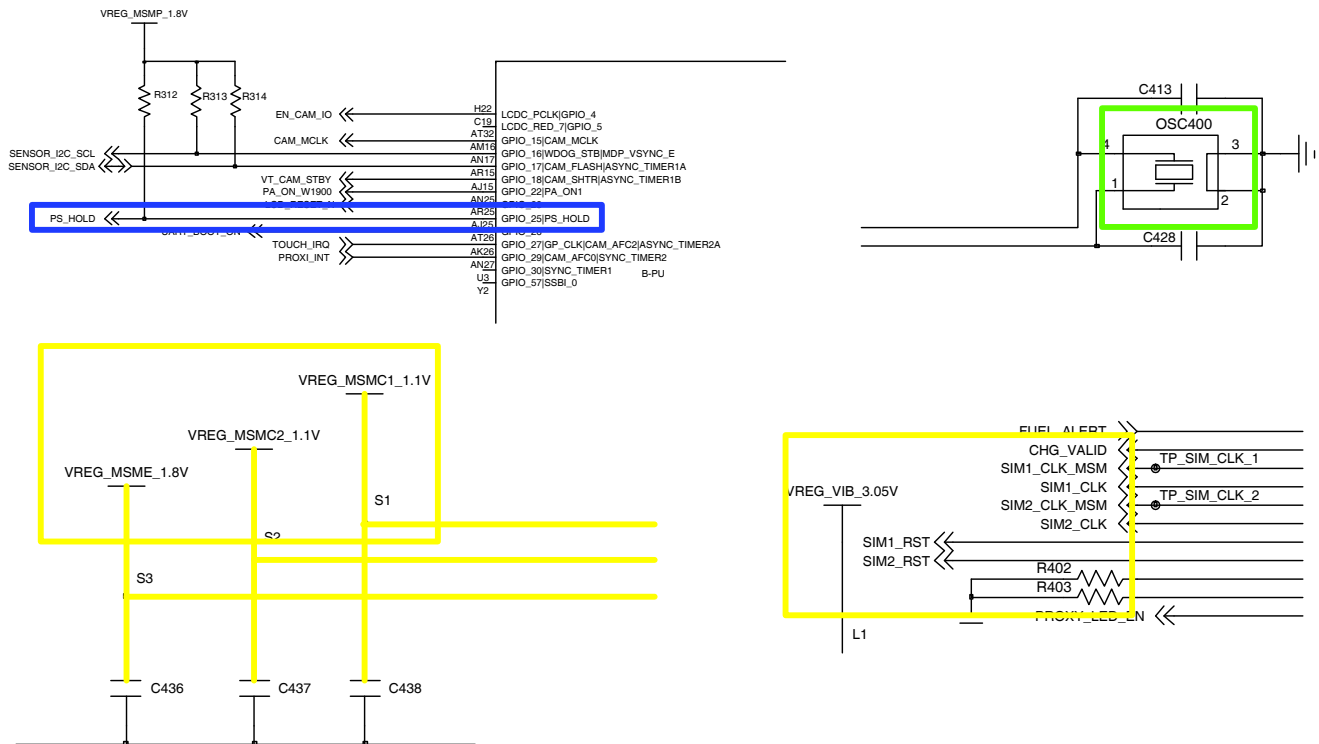
8-2-2. Bottom



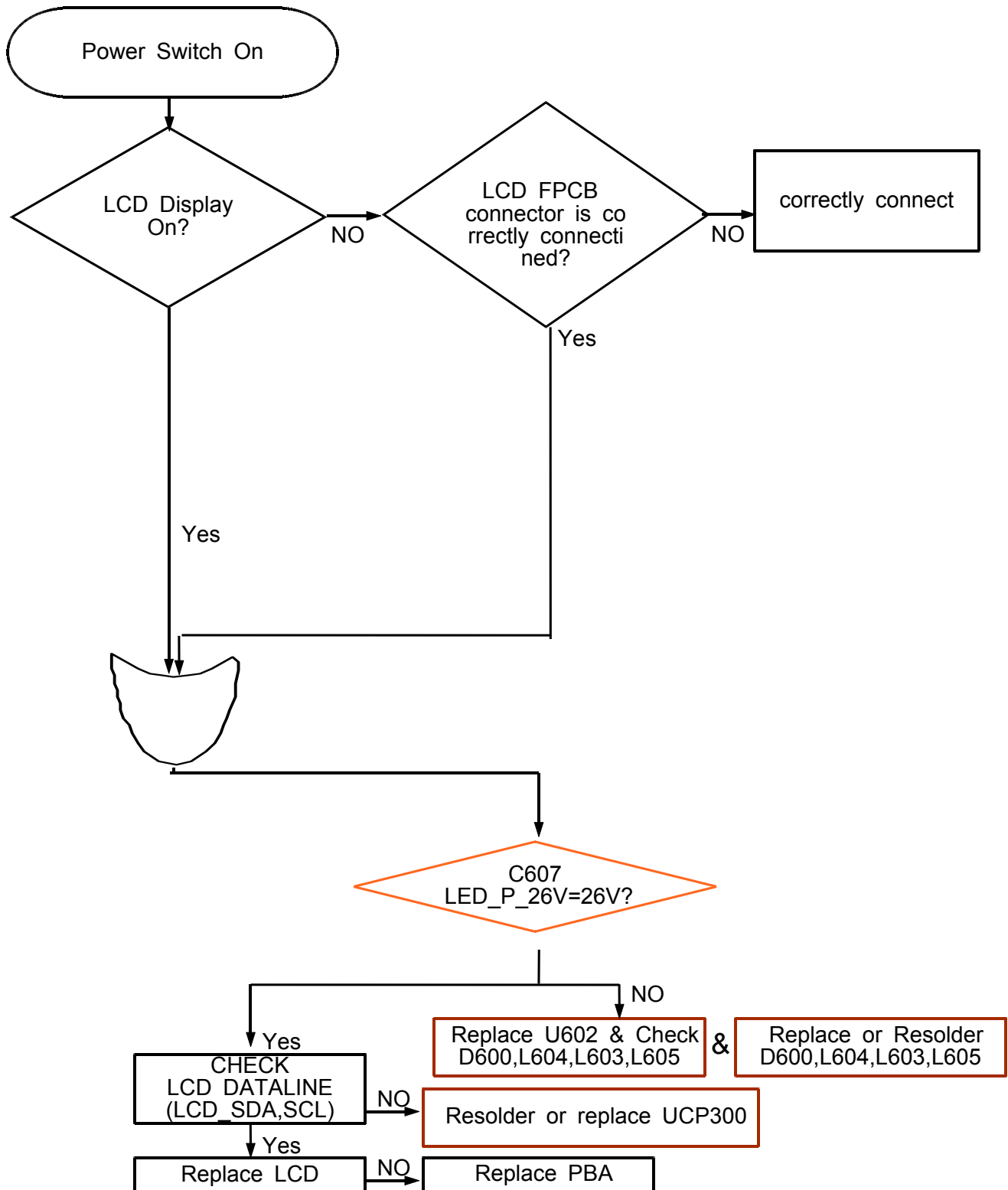
8-3. LOGIC

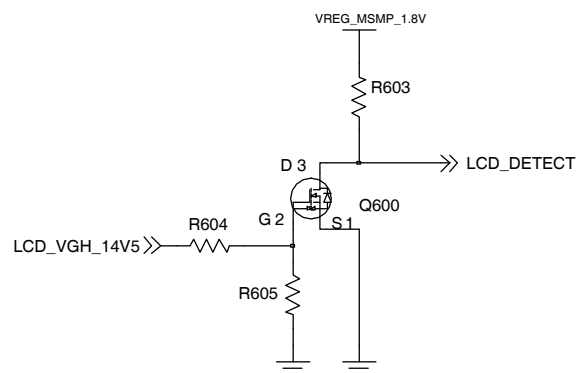
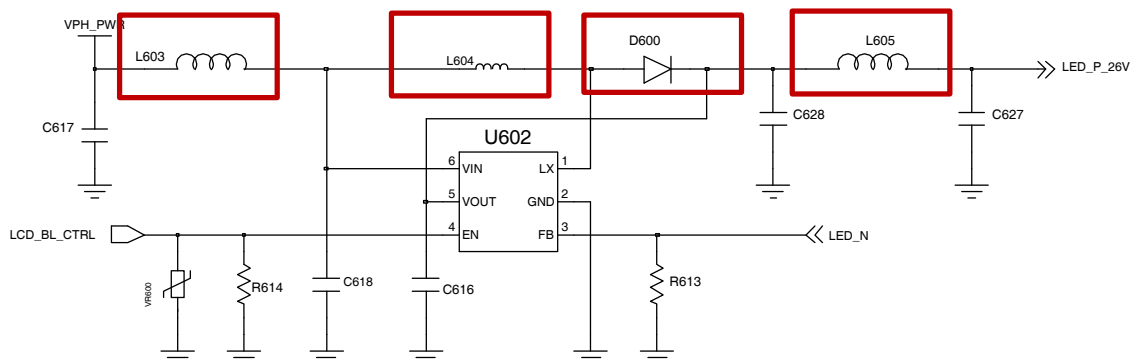
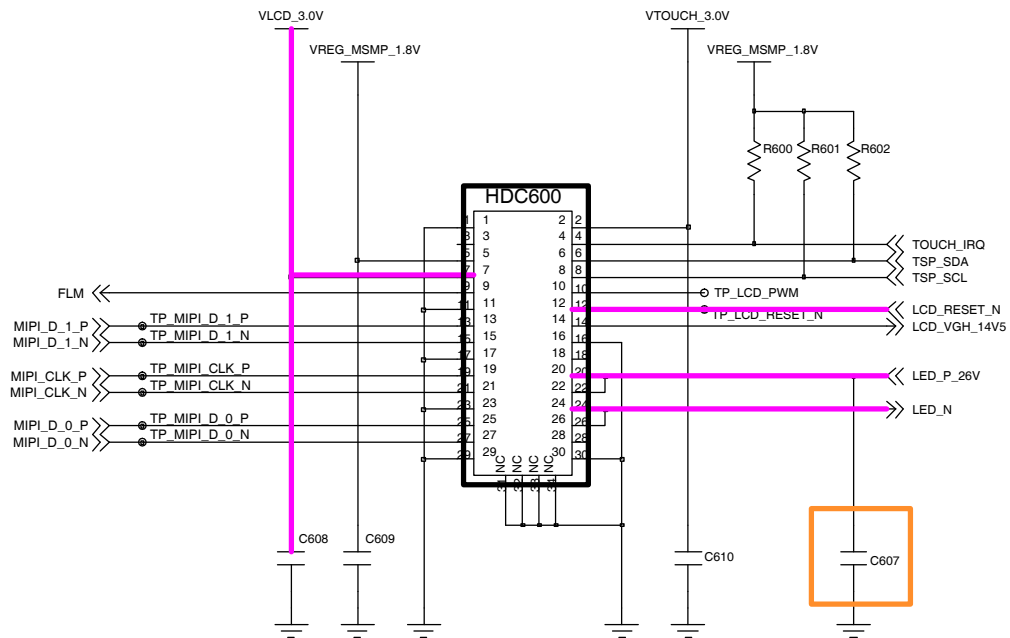
8-3-1. Power On

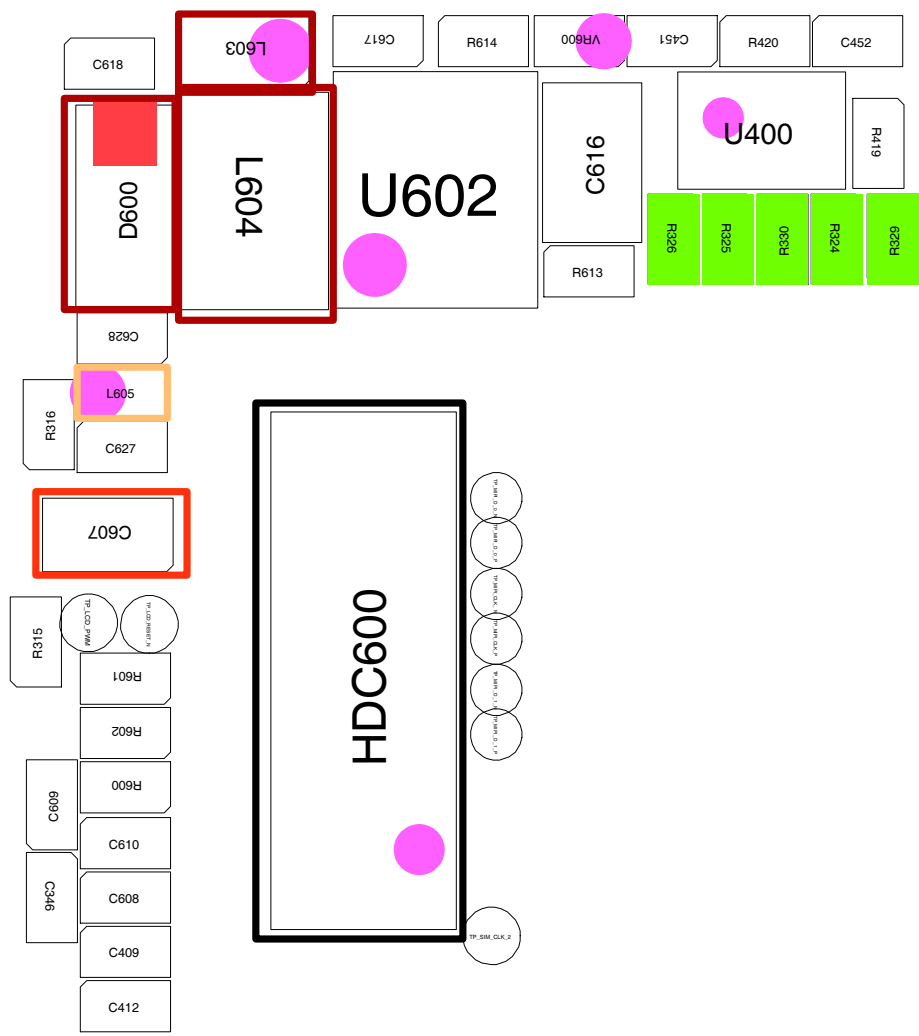




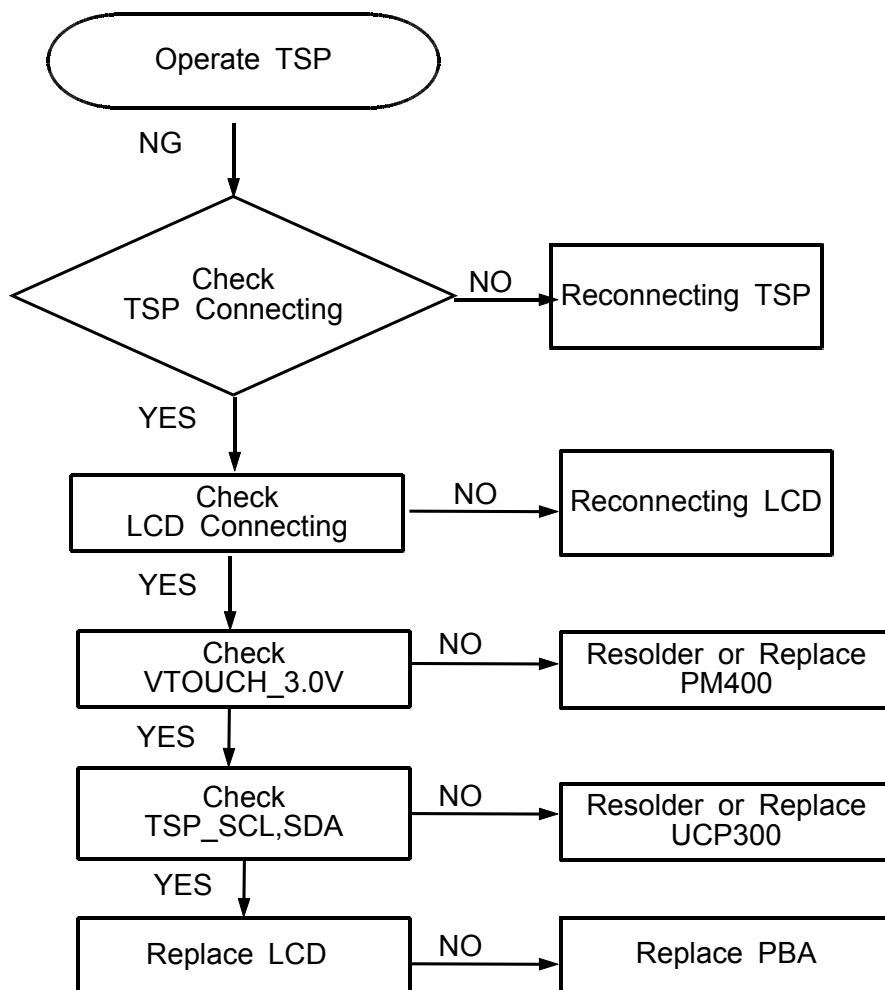
8-3-2. LCD Working





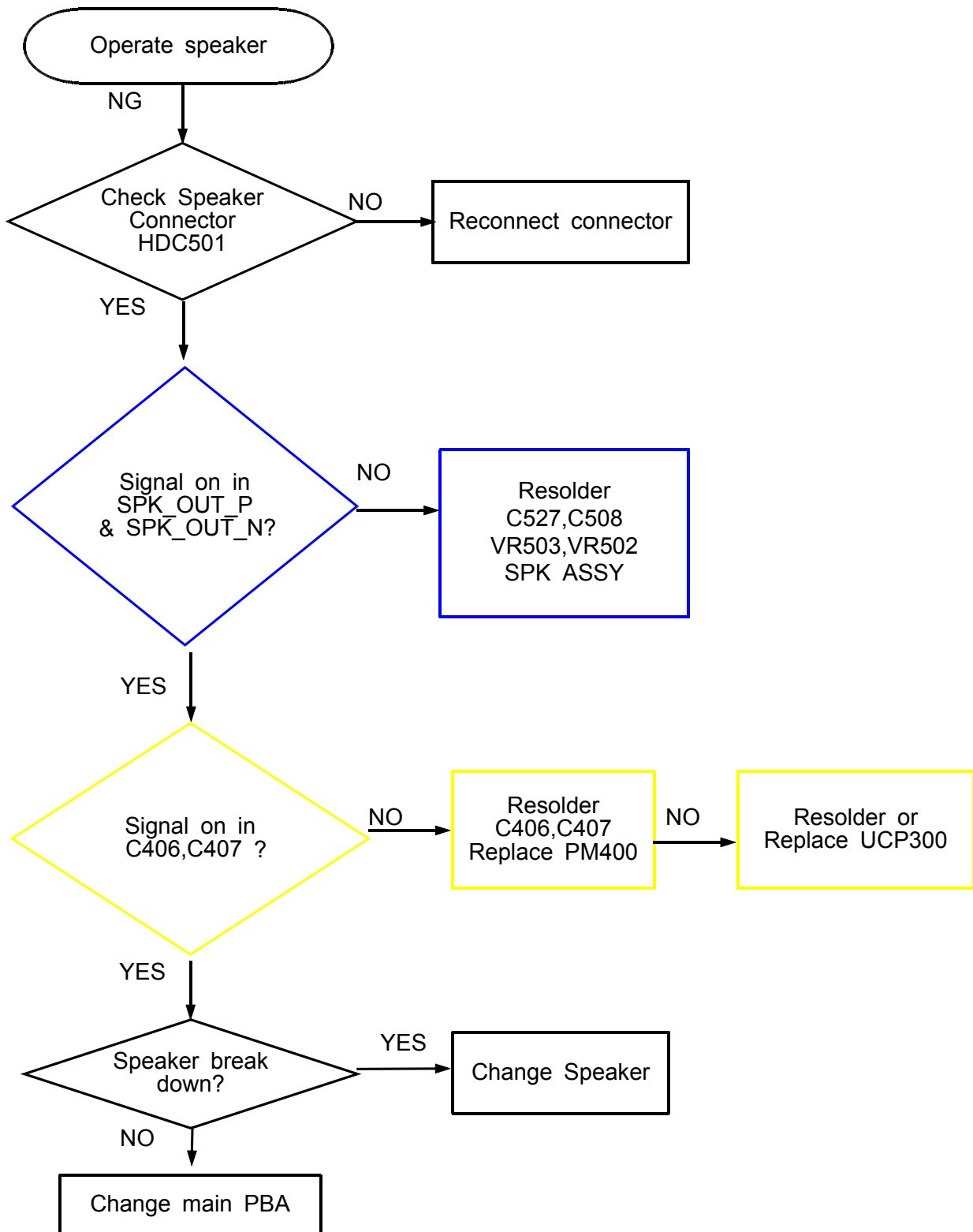


8-3-3. TSP



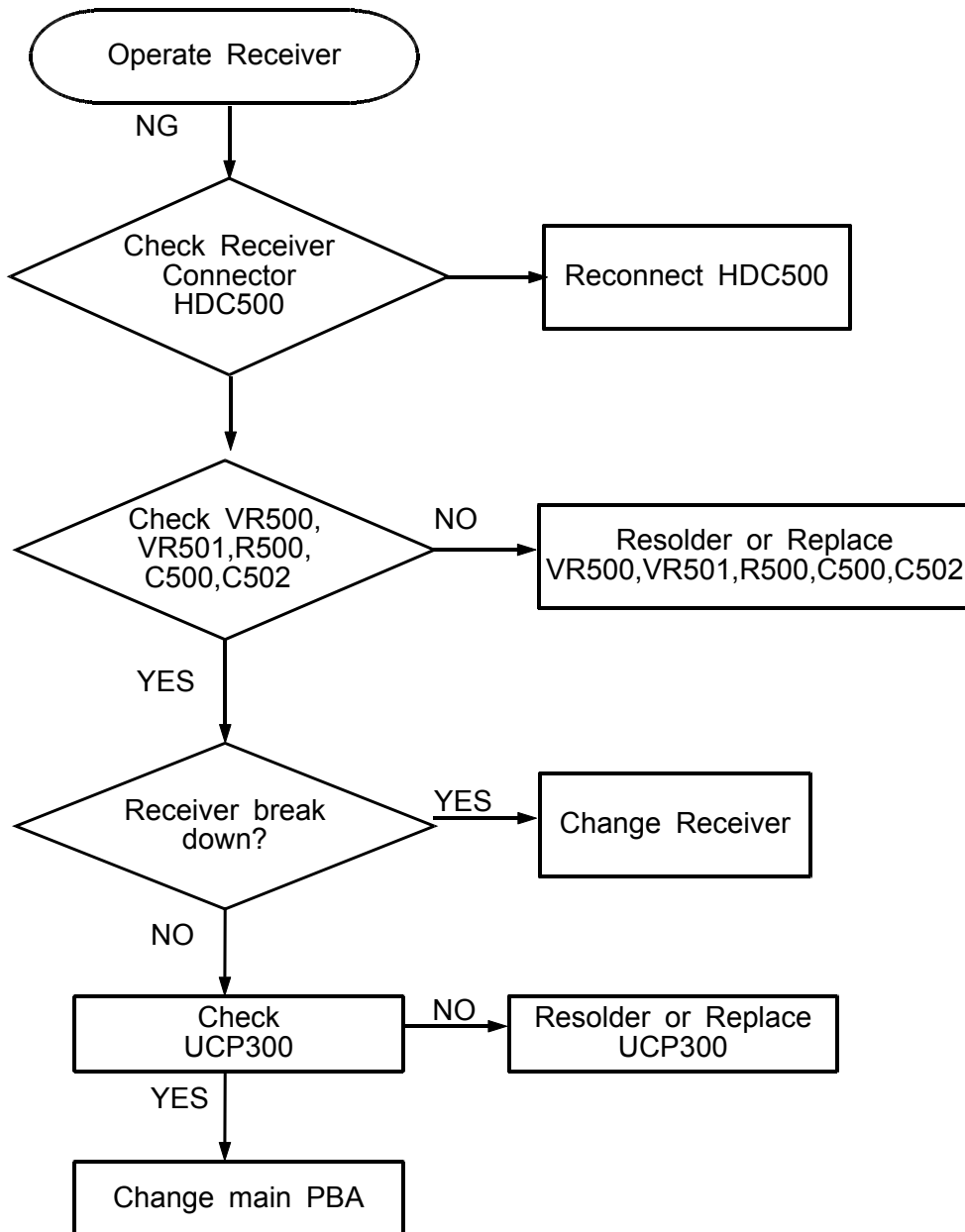
8-3-4. Audio Working

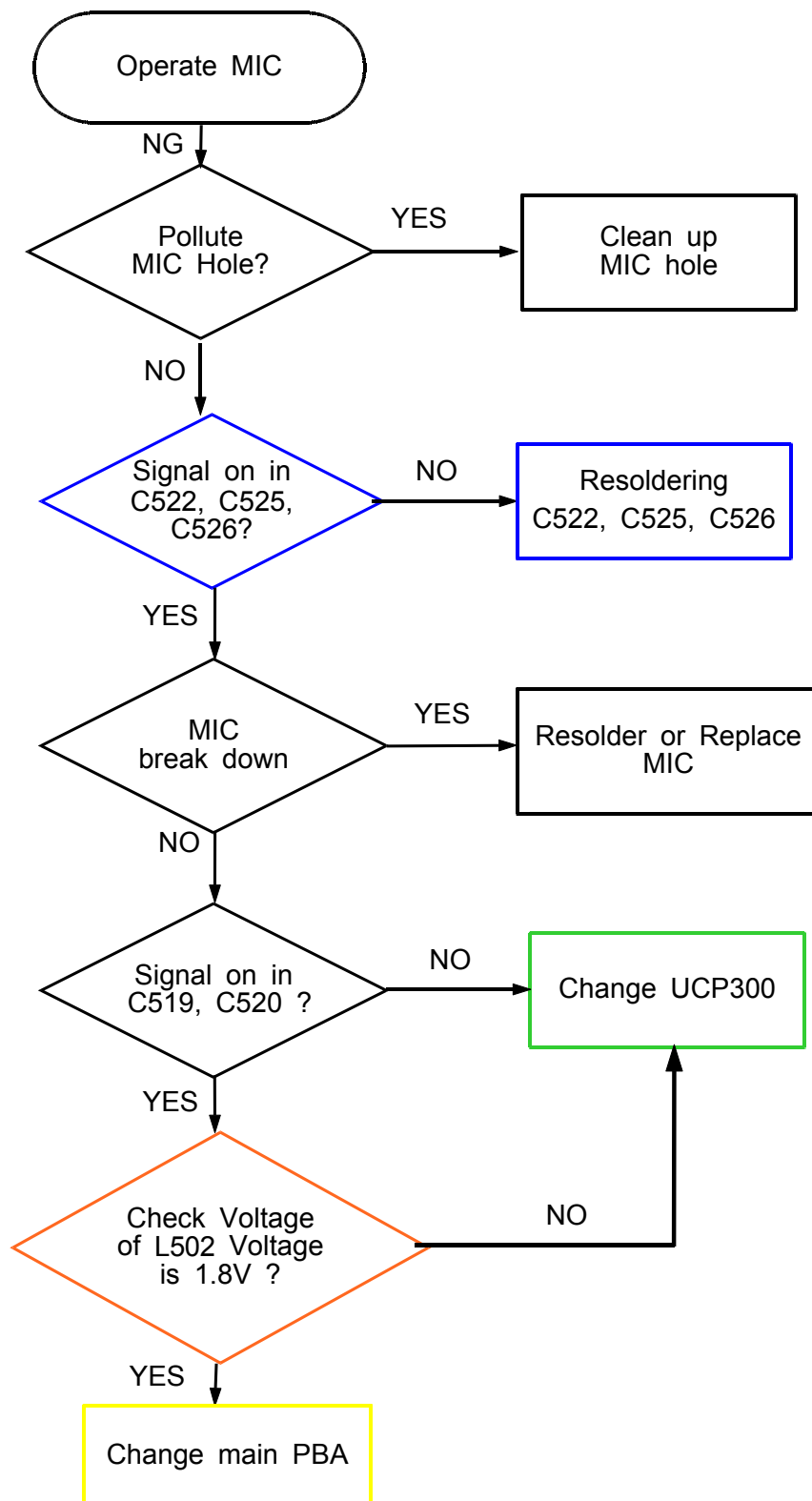
- Speaker Working

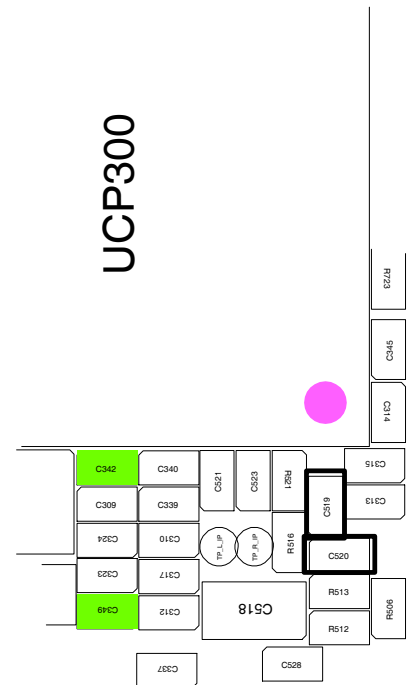
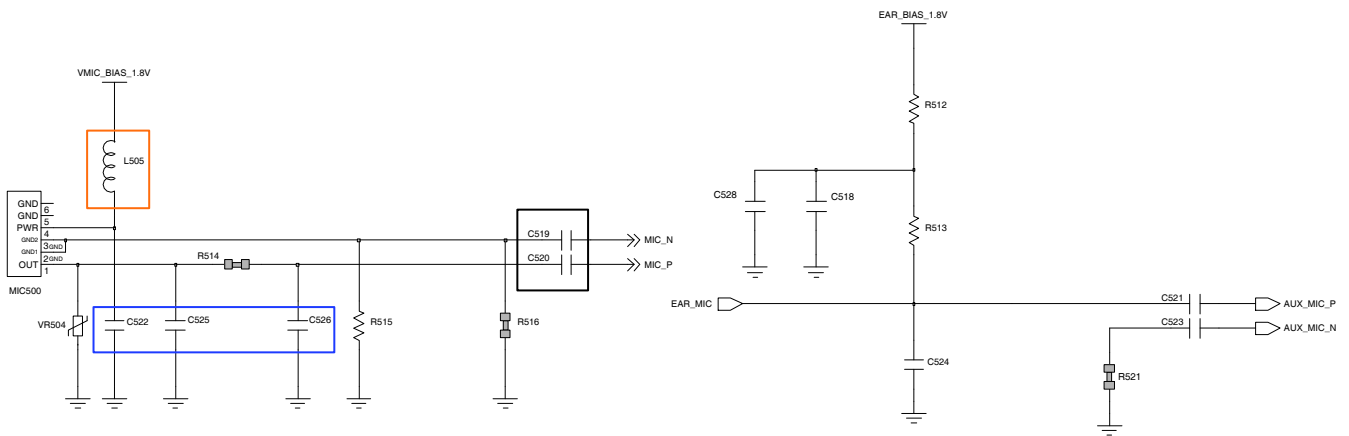




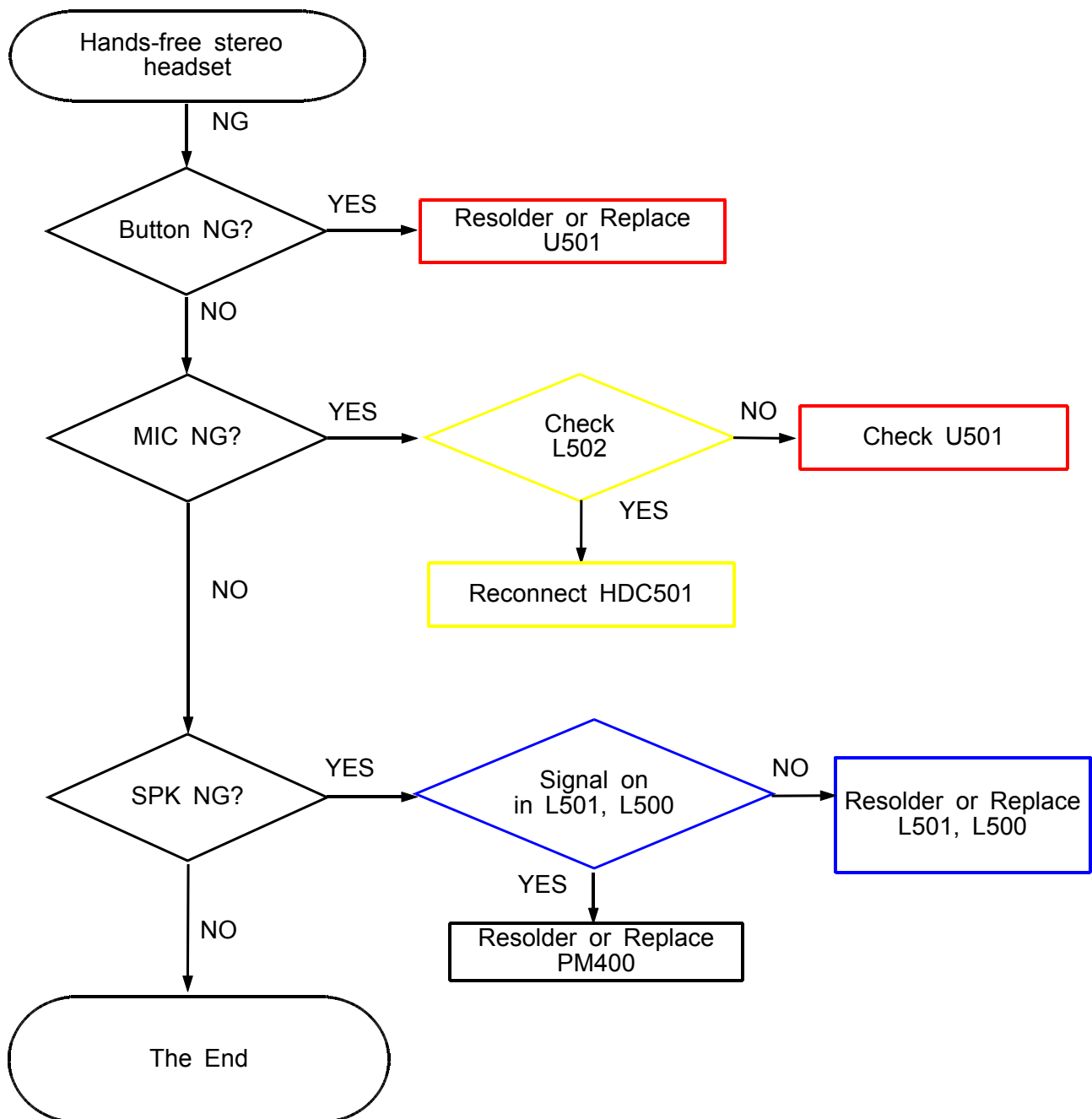
● Receiver Working

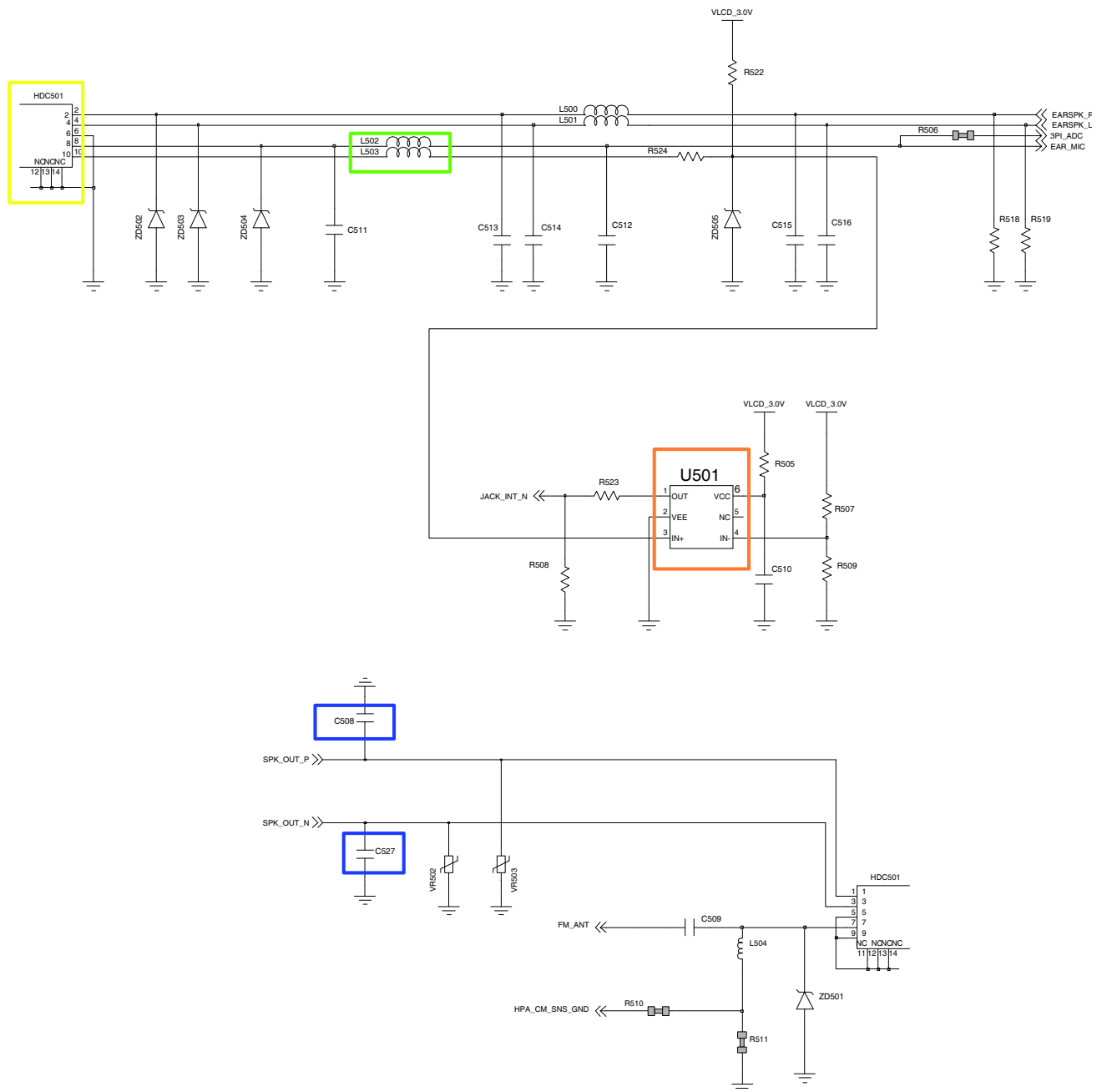


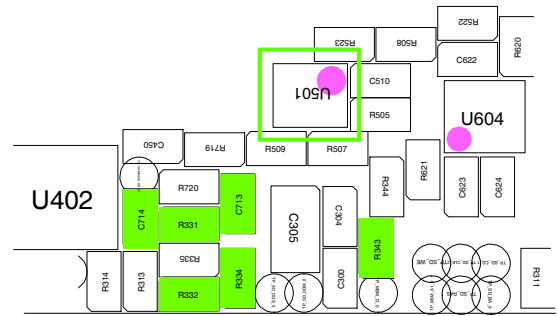
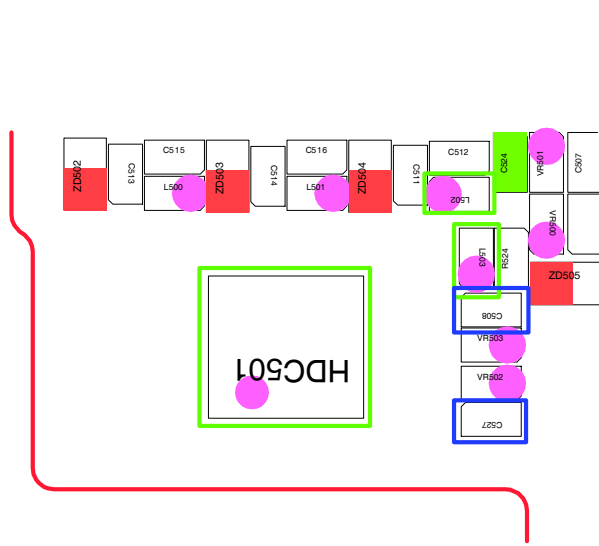
● MIC Working



■ Stereo Headset Working



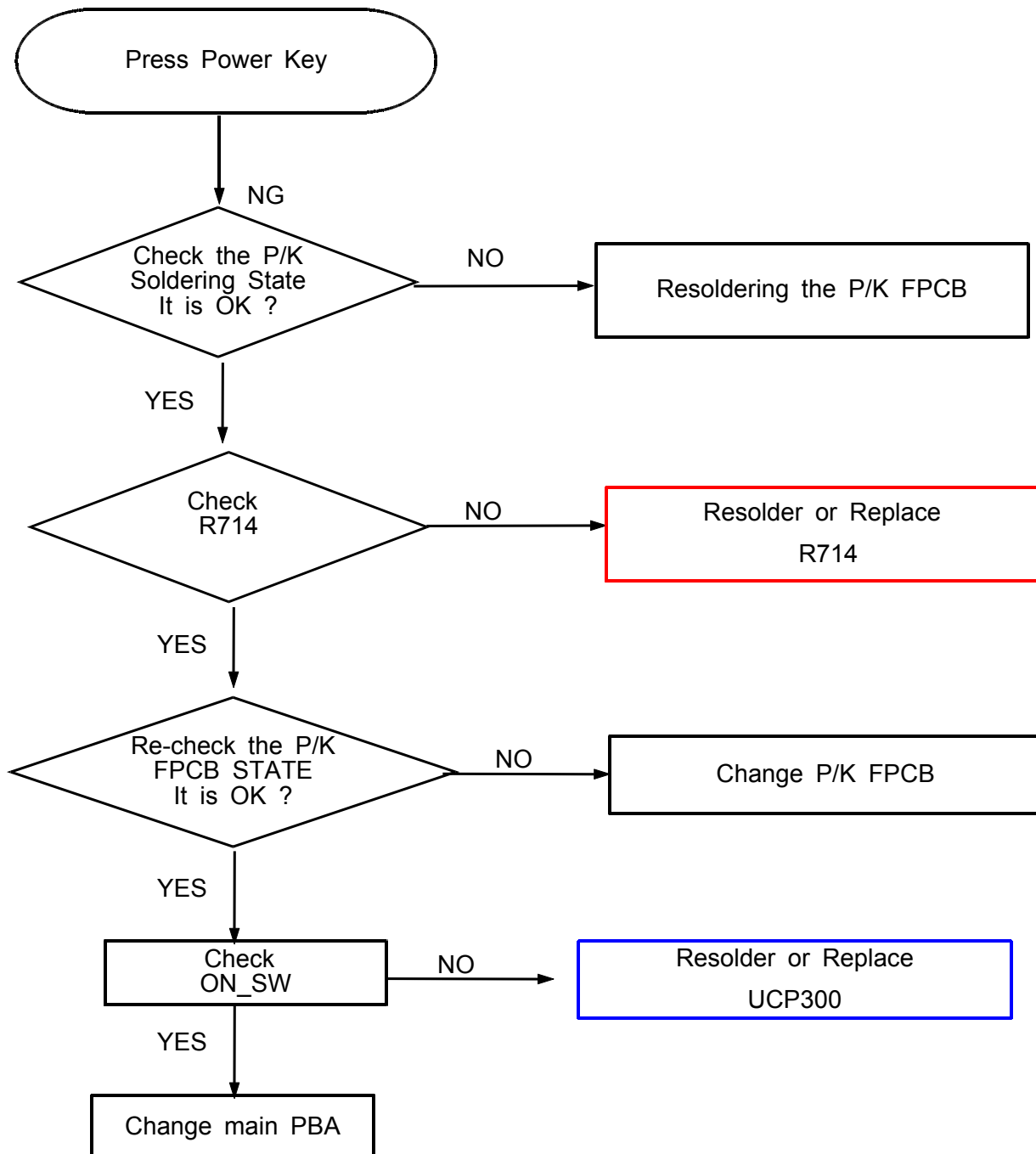


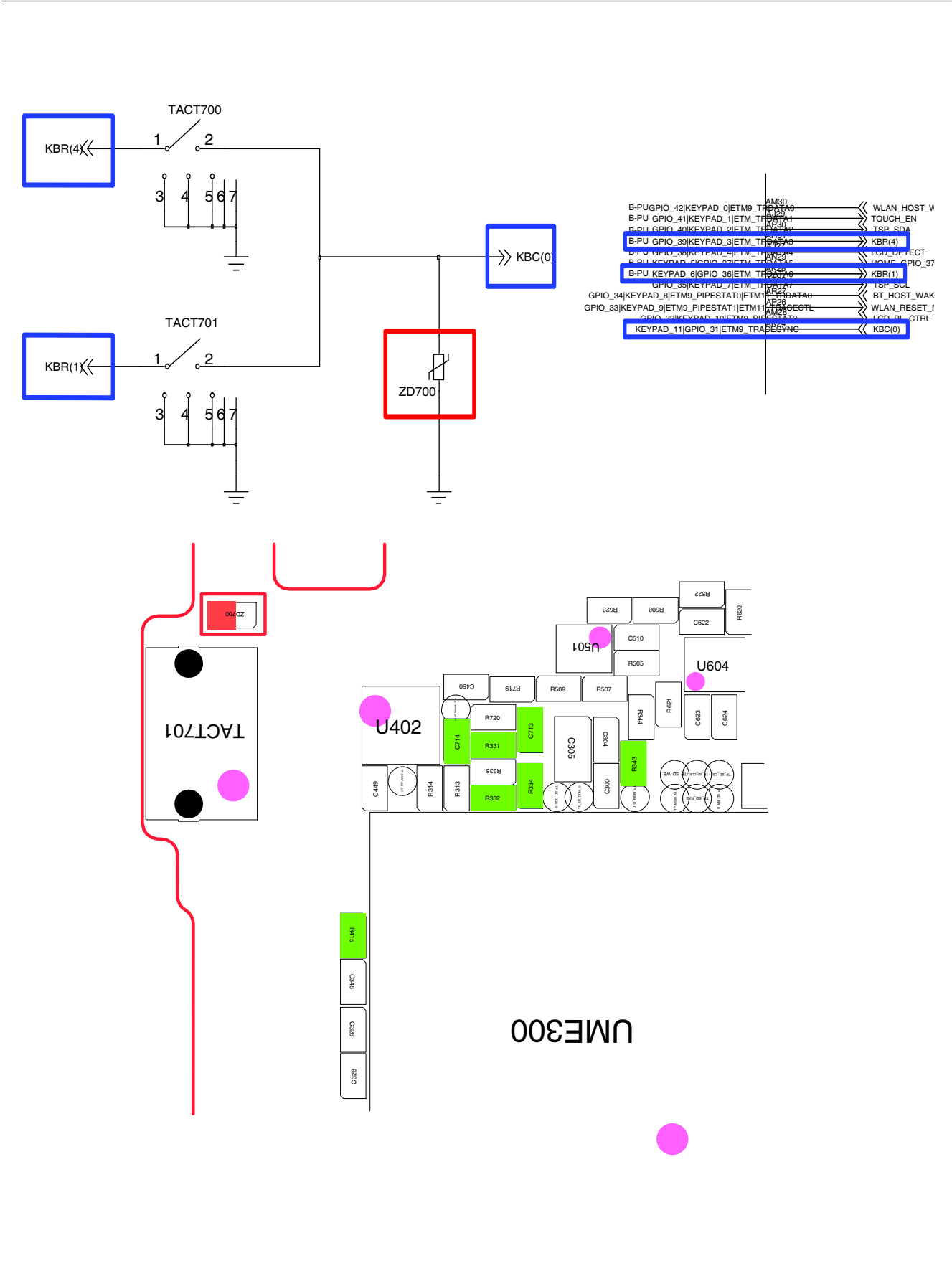


UM300

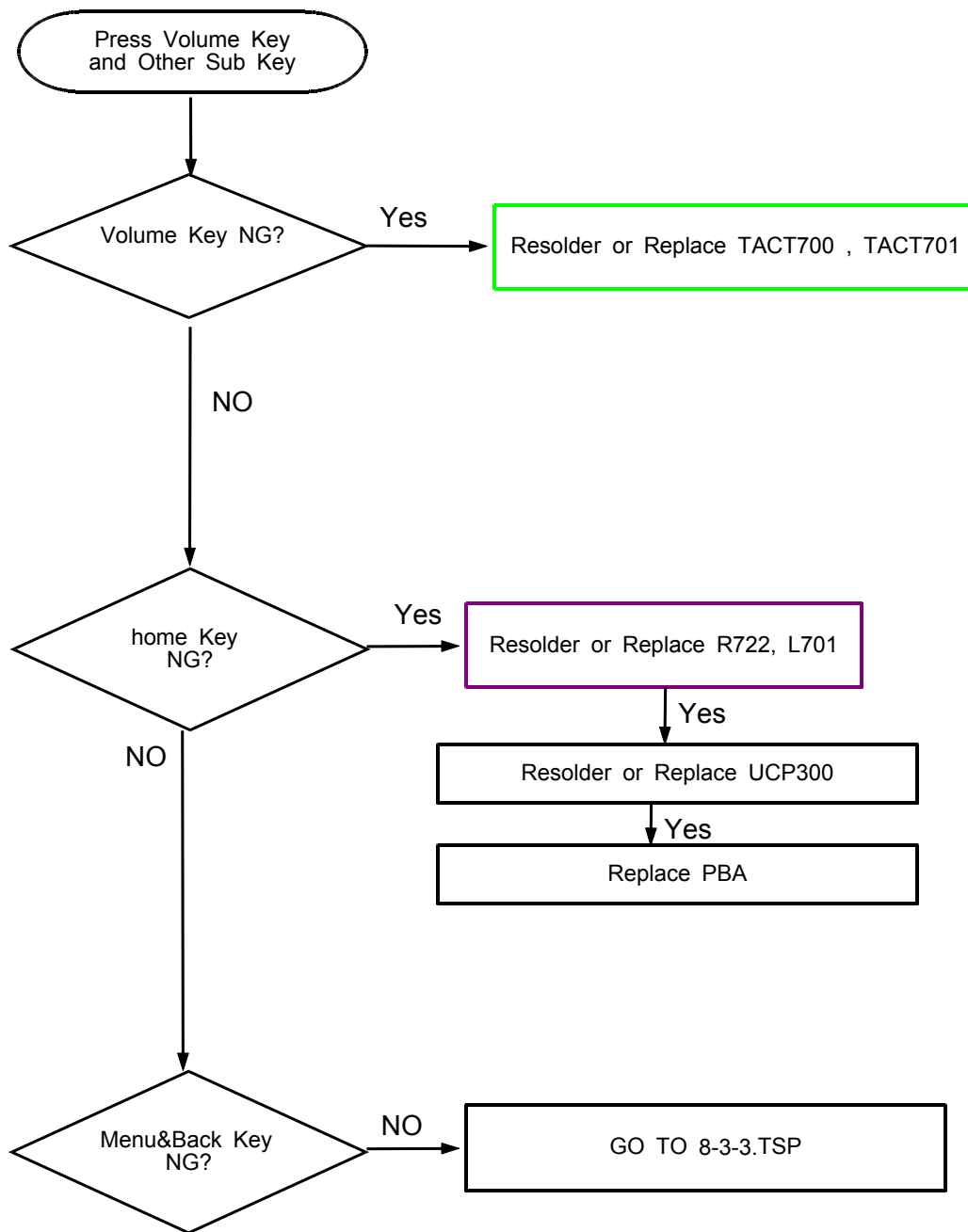
8-3-5. KEY Working

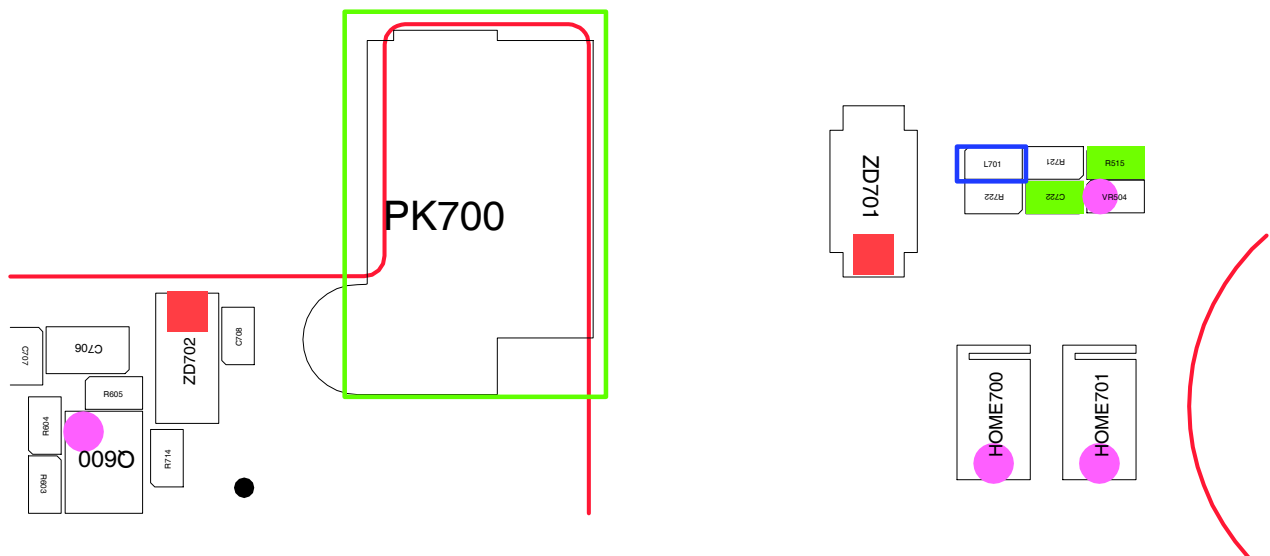
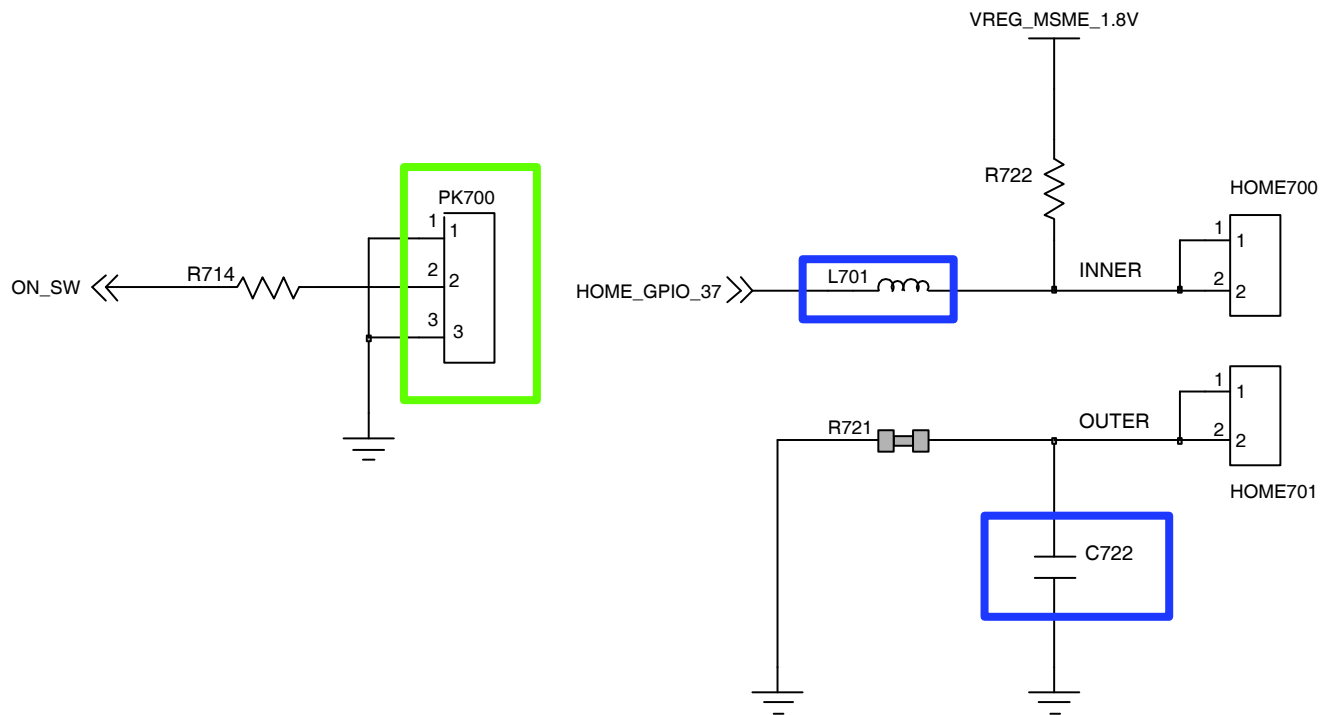
- Power KEY



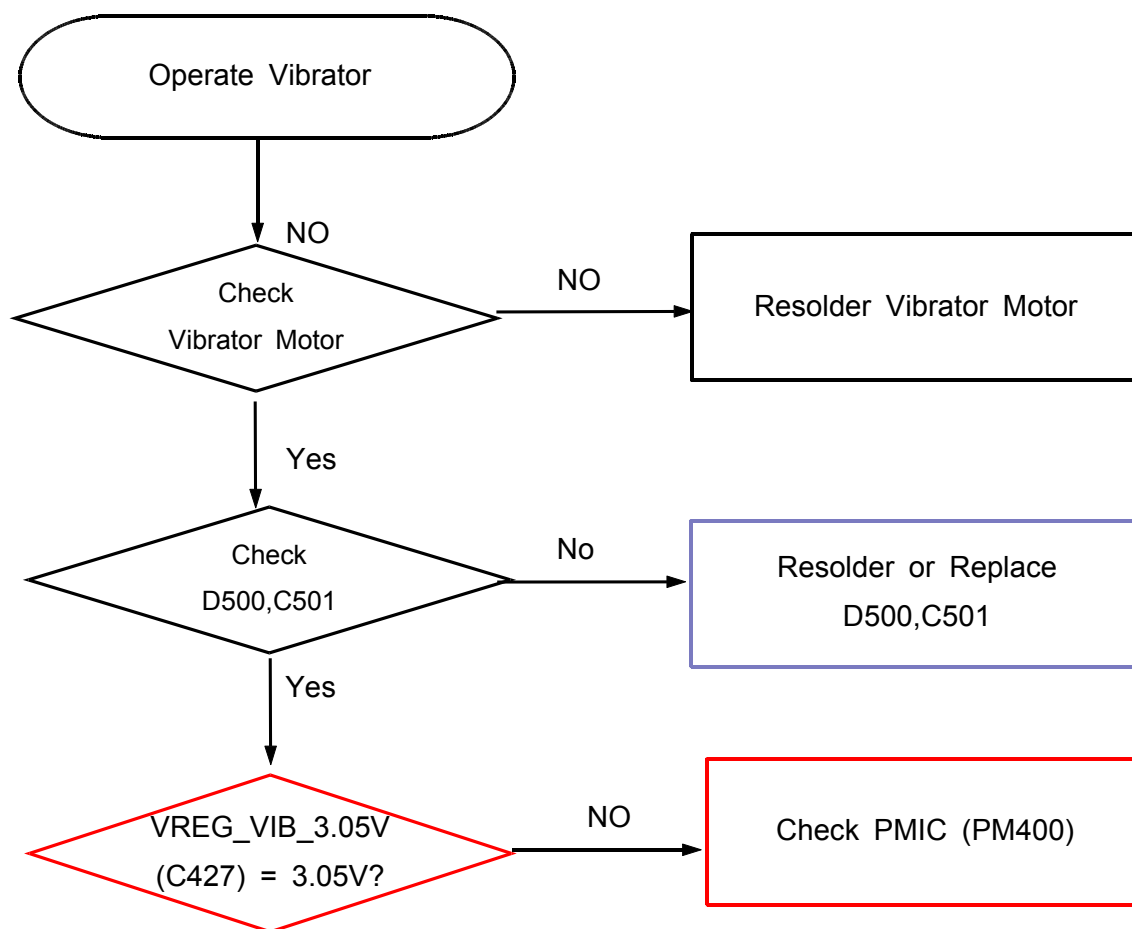


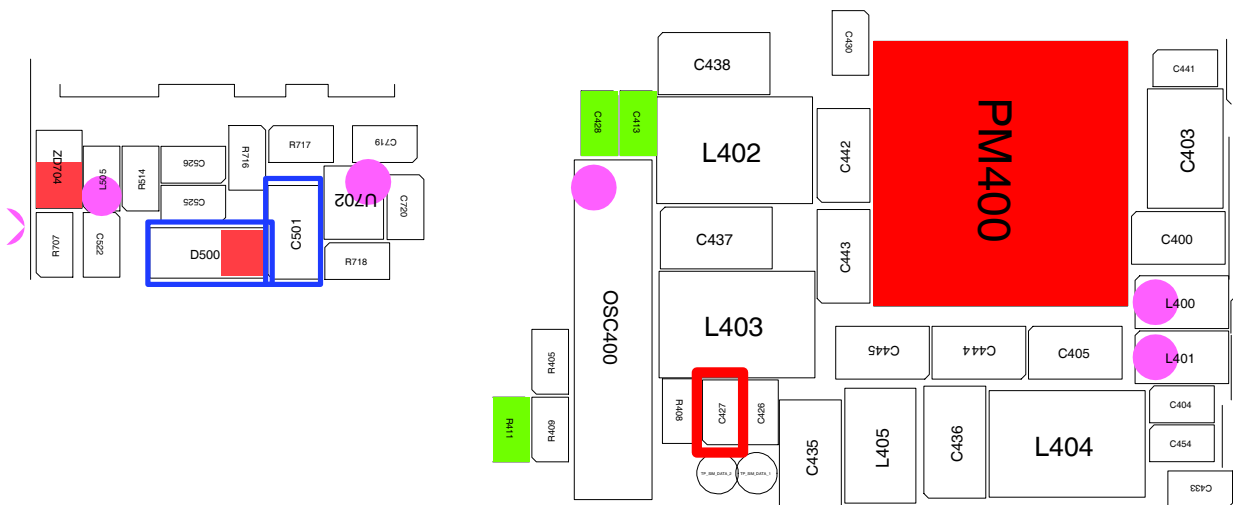
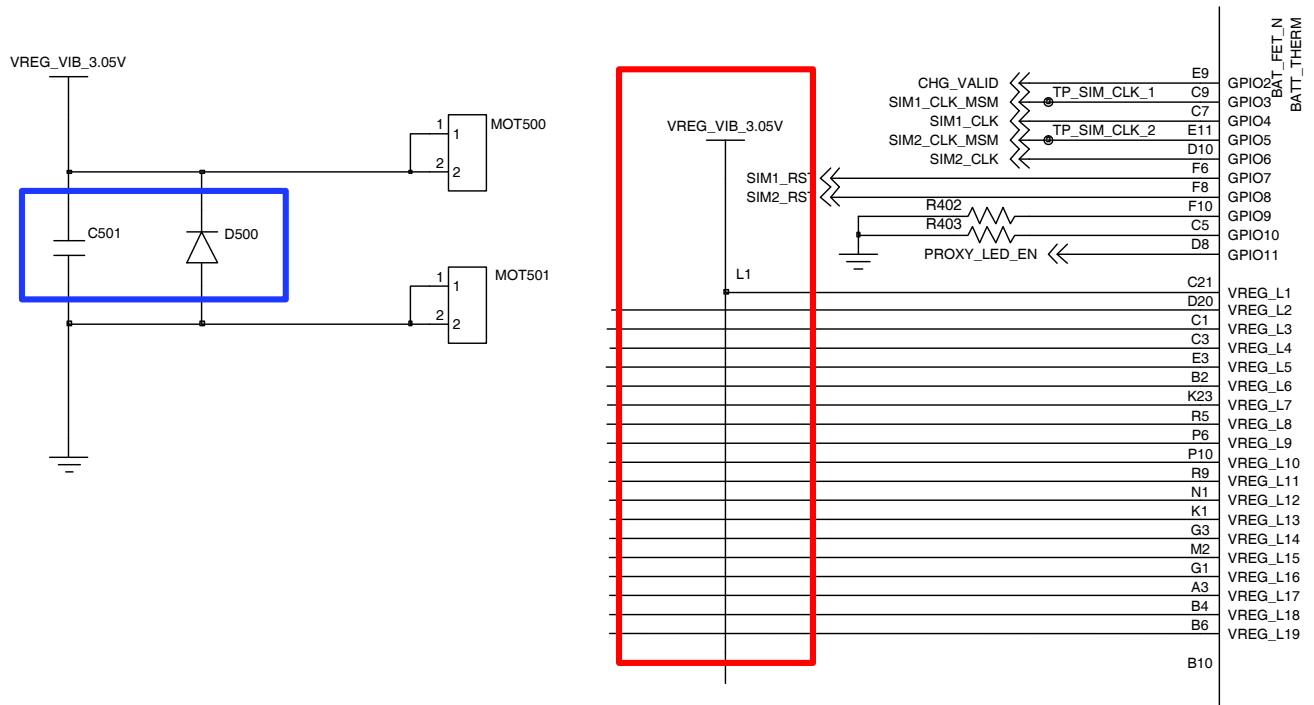
- Volume Key and Other Sub key



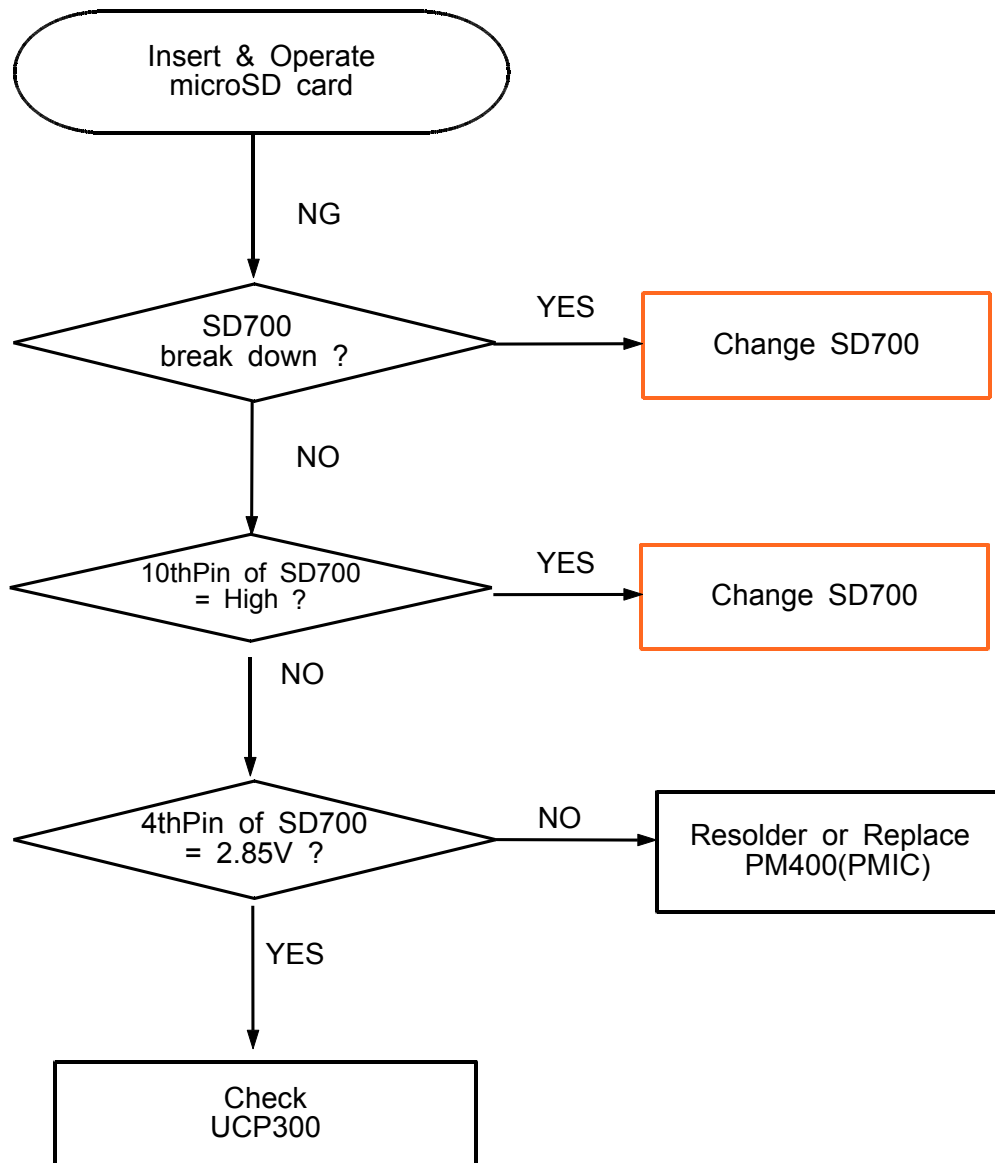


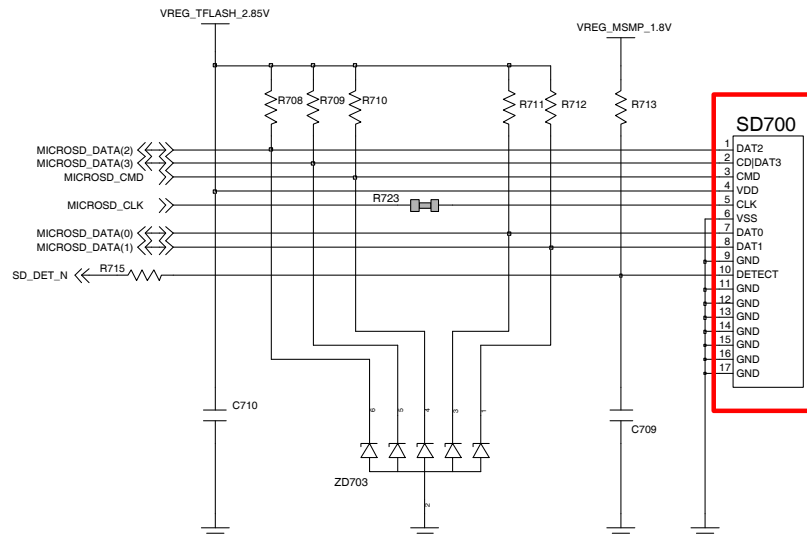
8-3-6. Vibrator Working



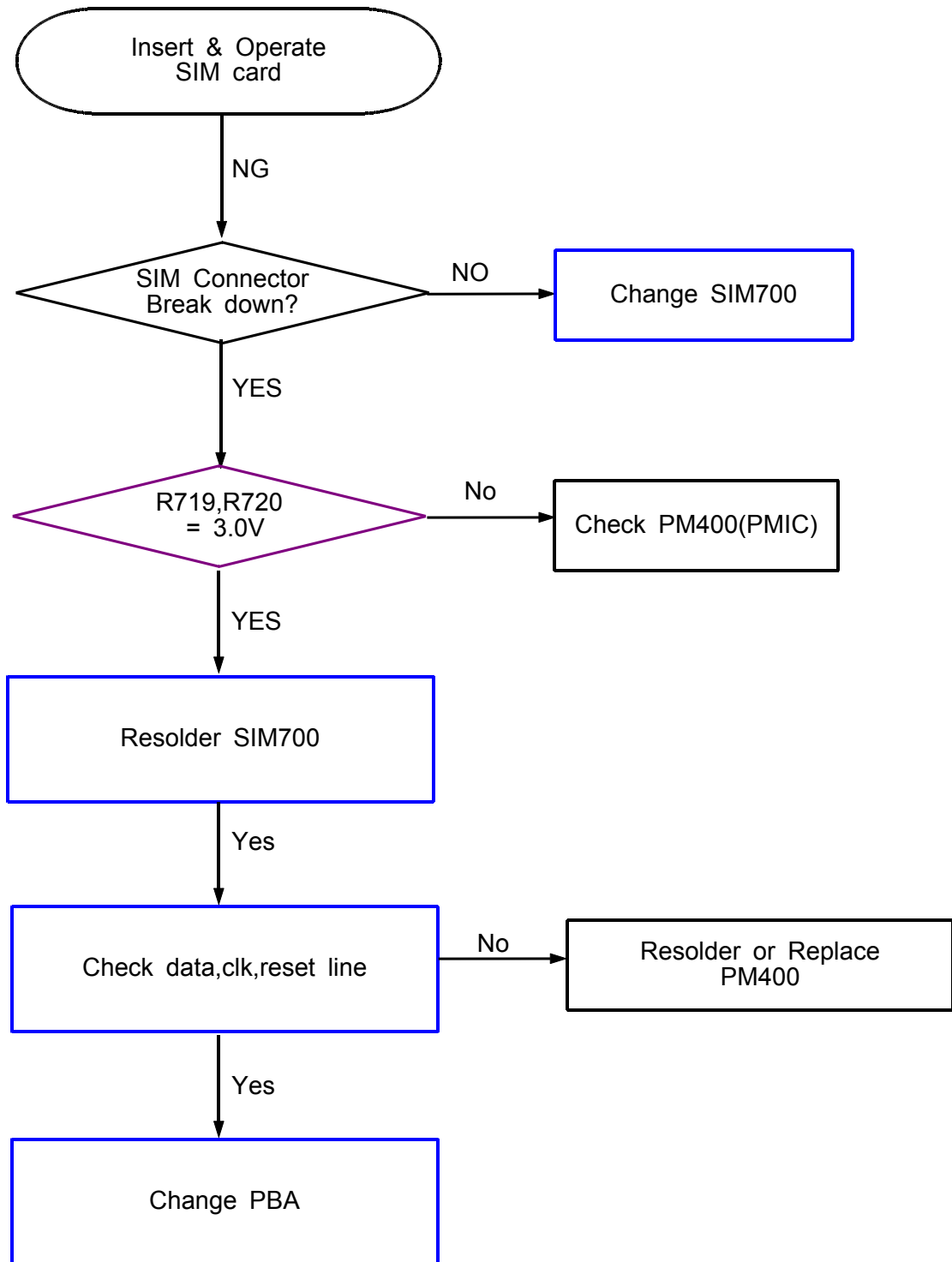


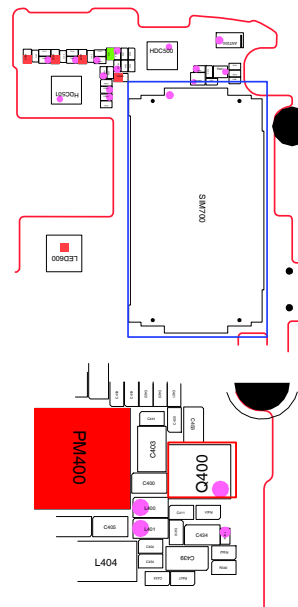
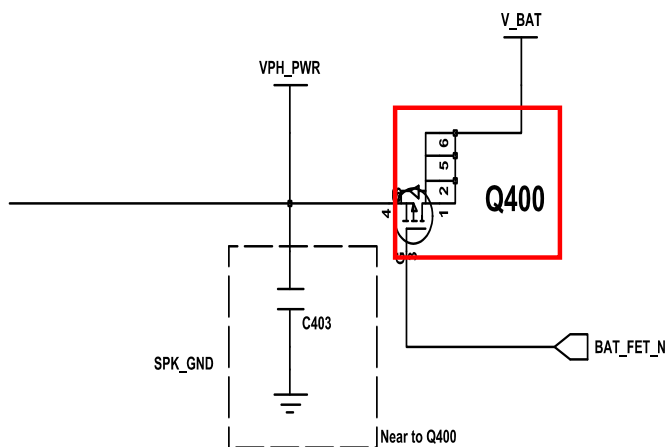
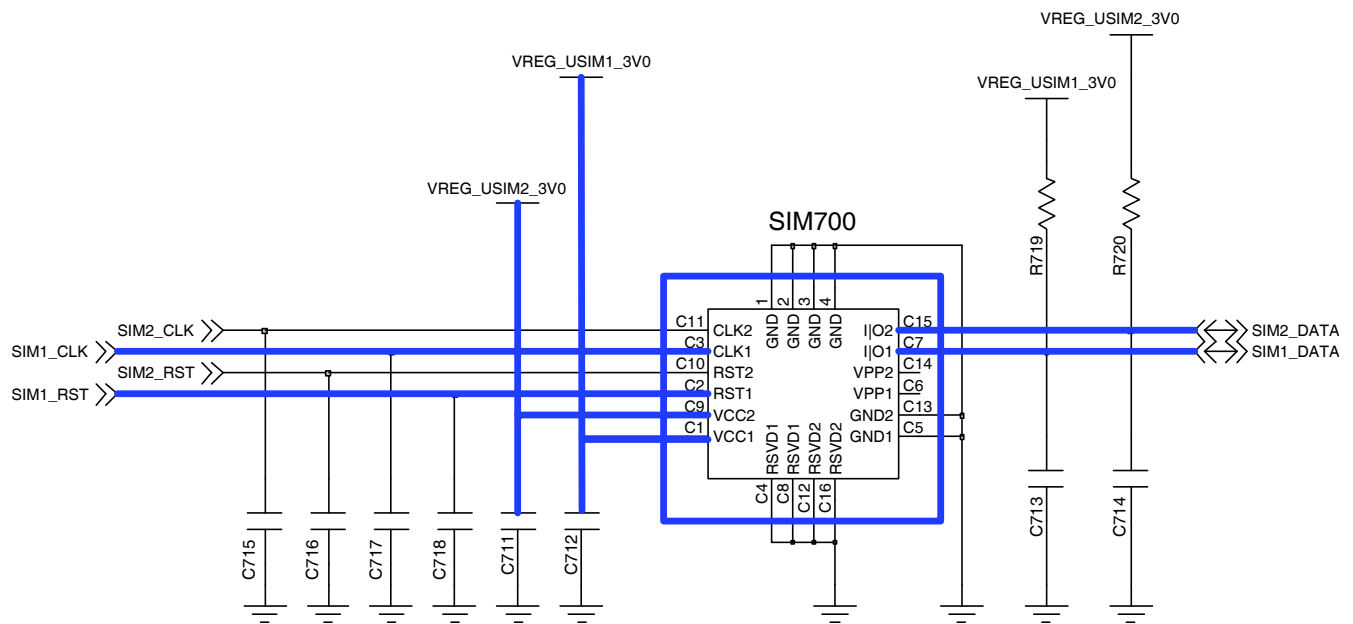
8-3-7. T-Flash Card Working





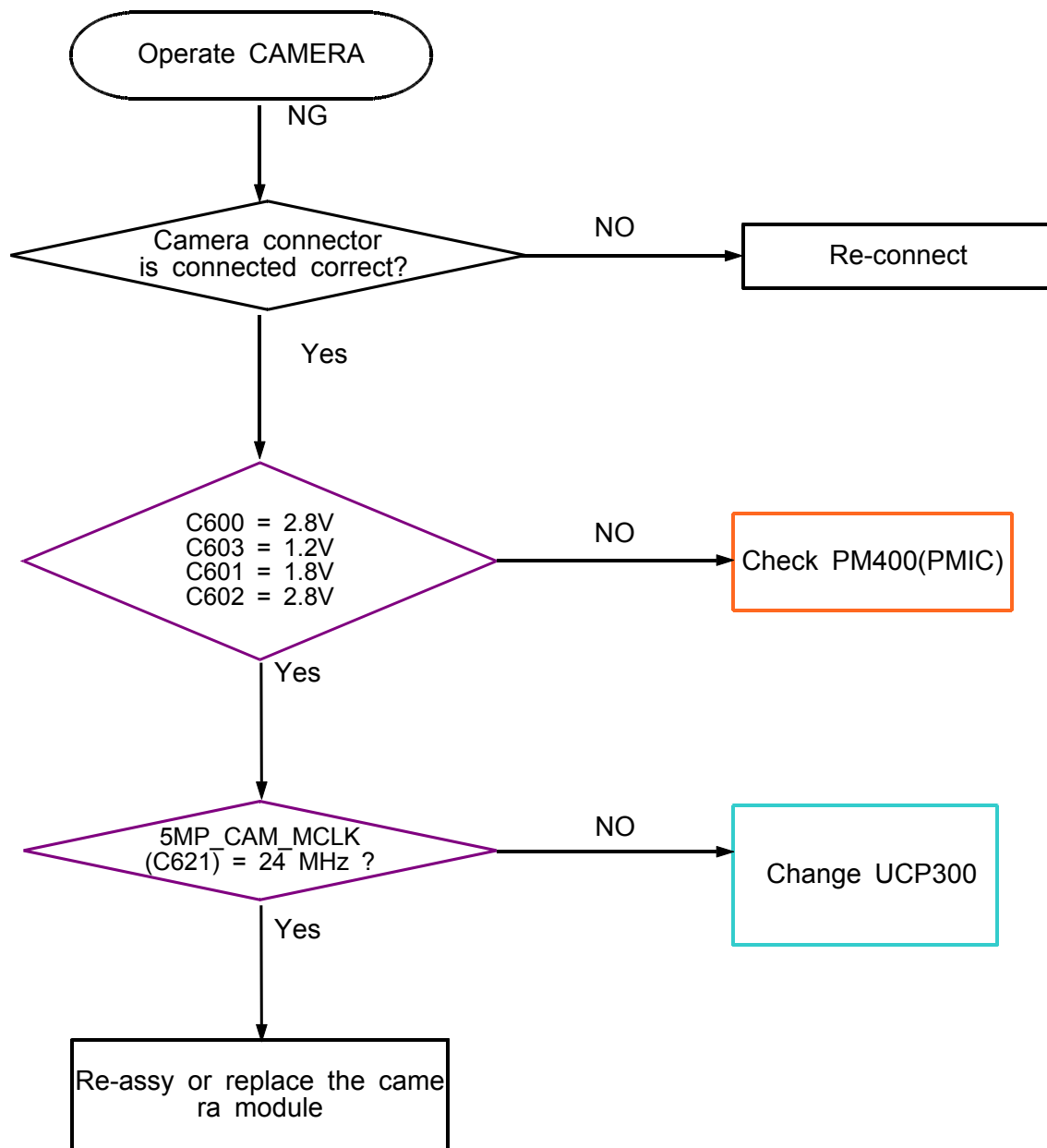
8-3-8. SIM Card Working



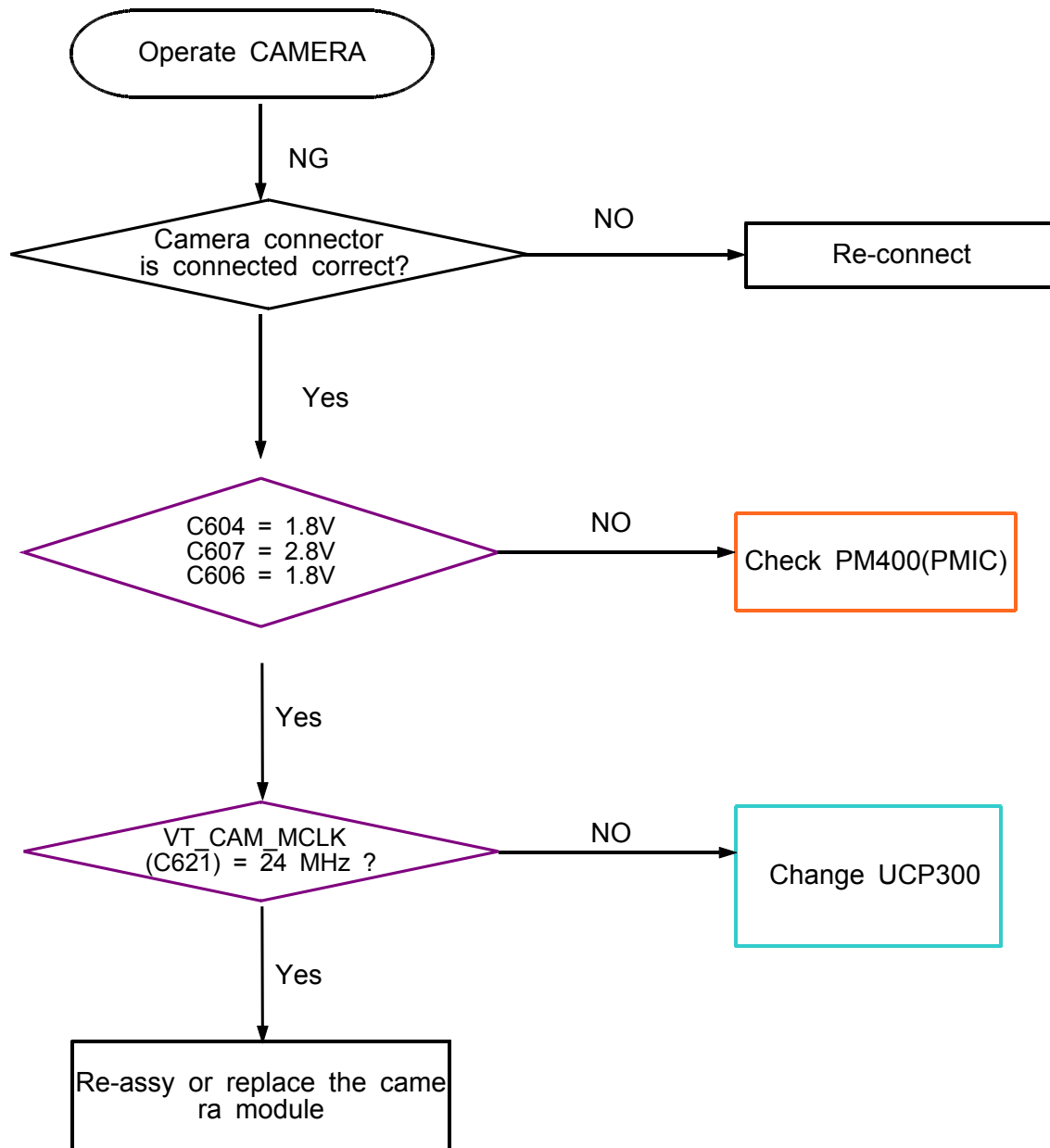


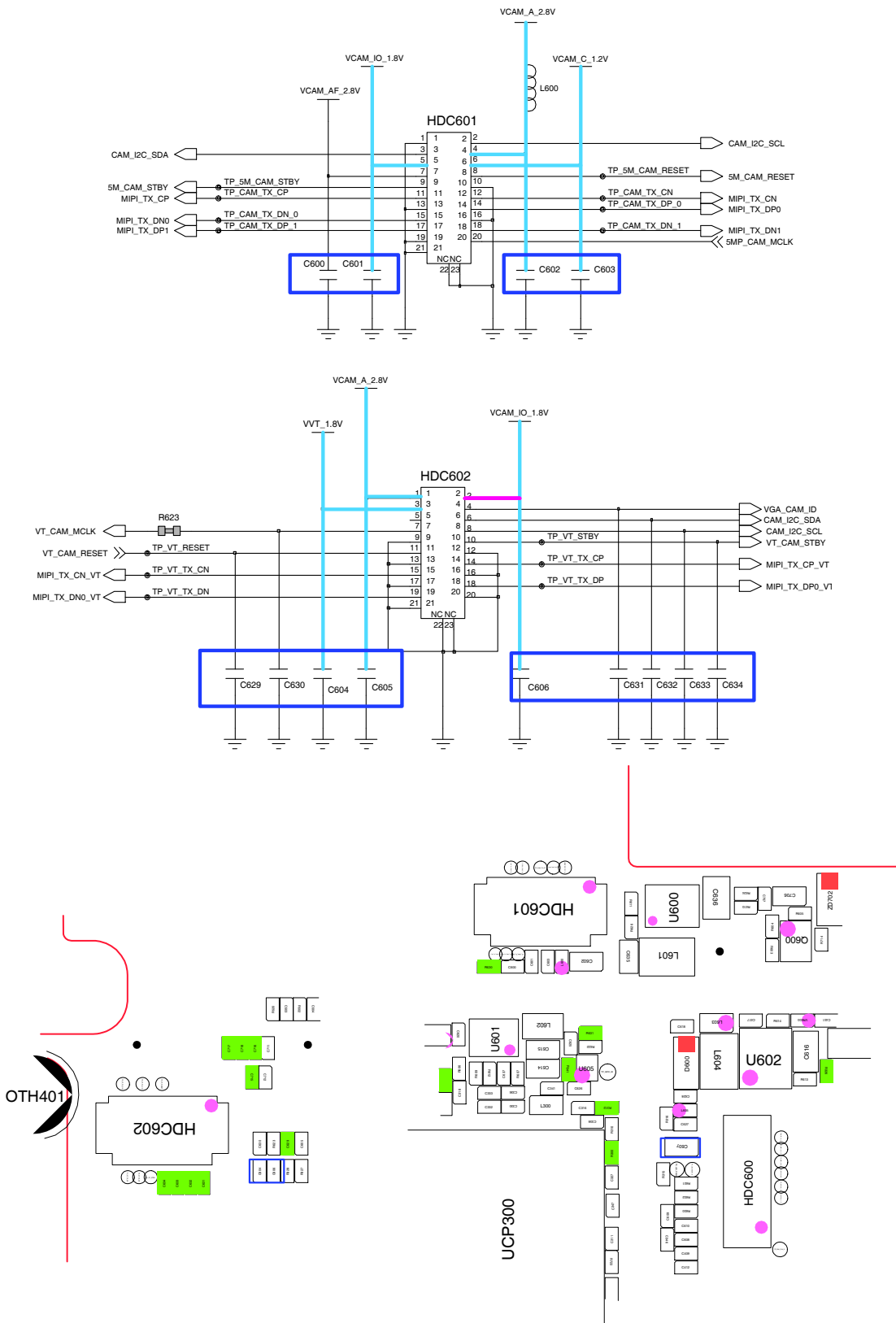
8-3-9 CAMERA Working

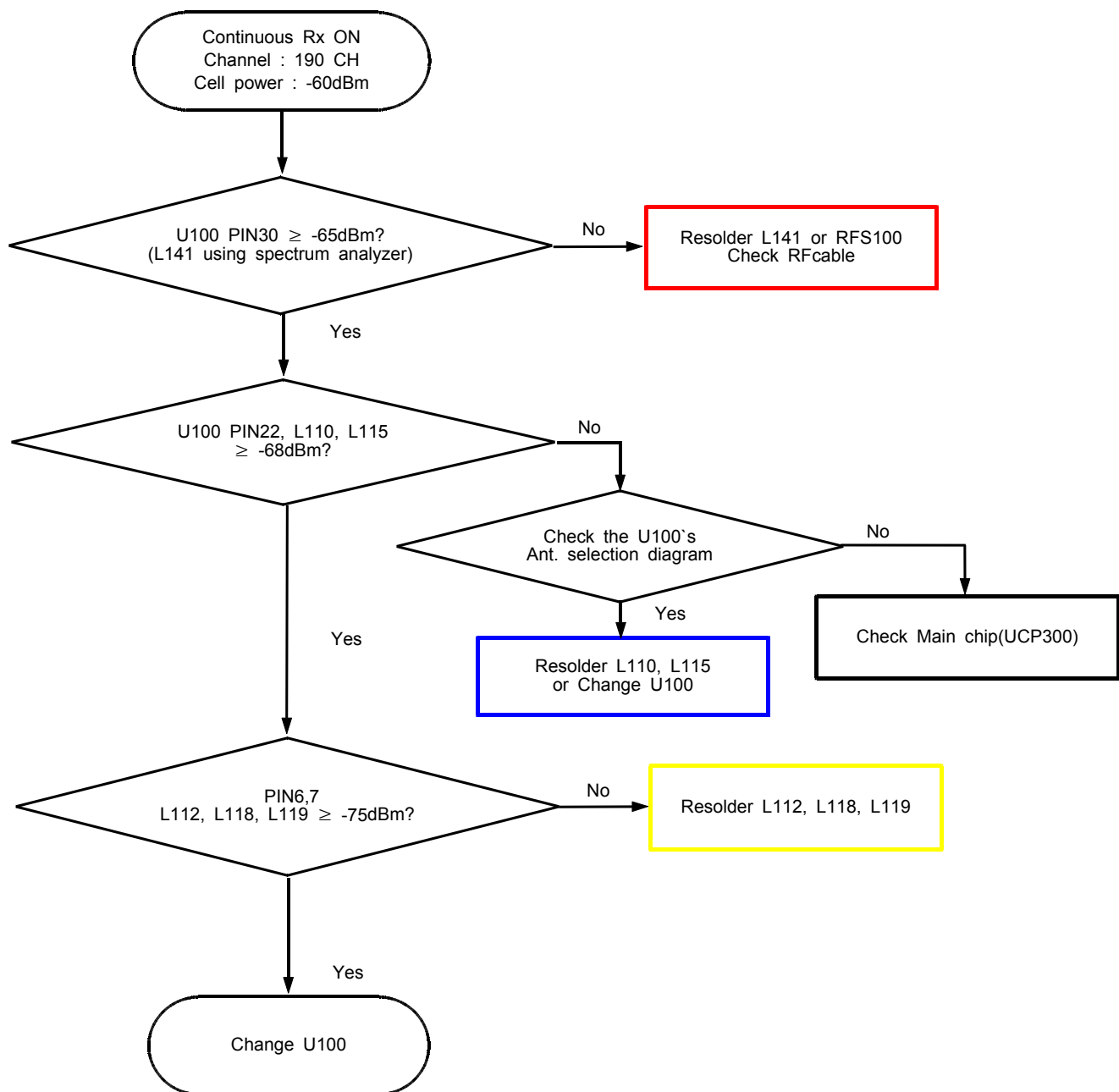
■ 5M CAM



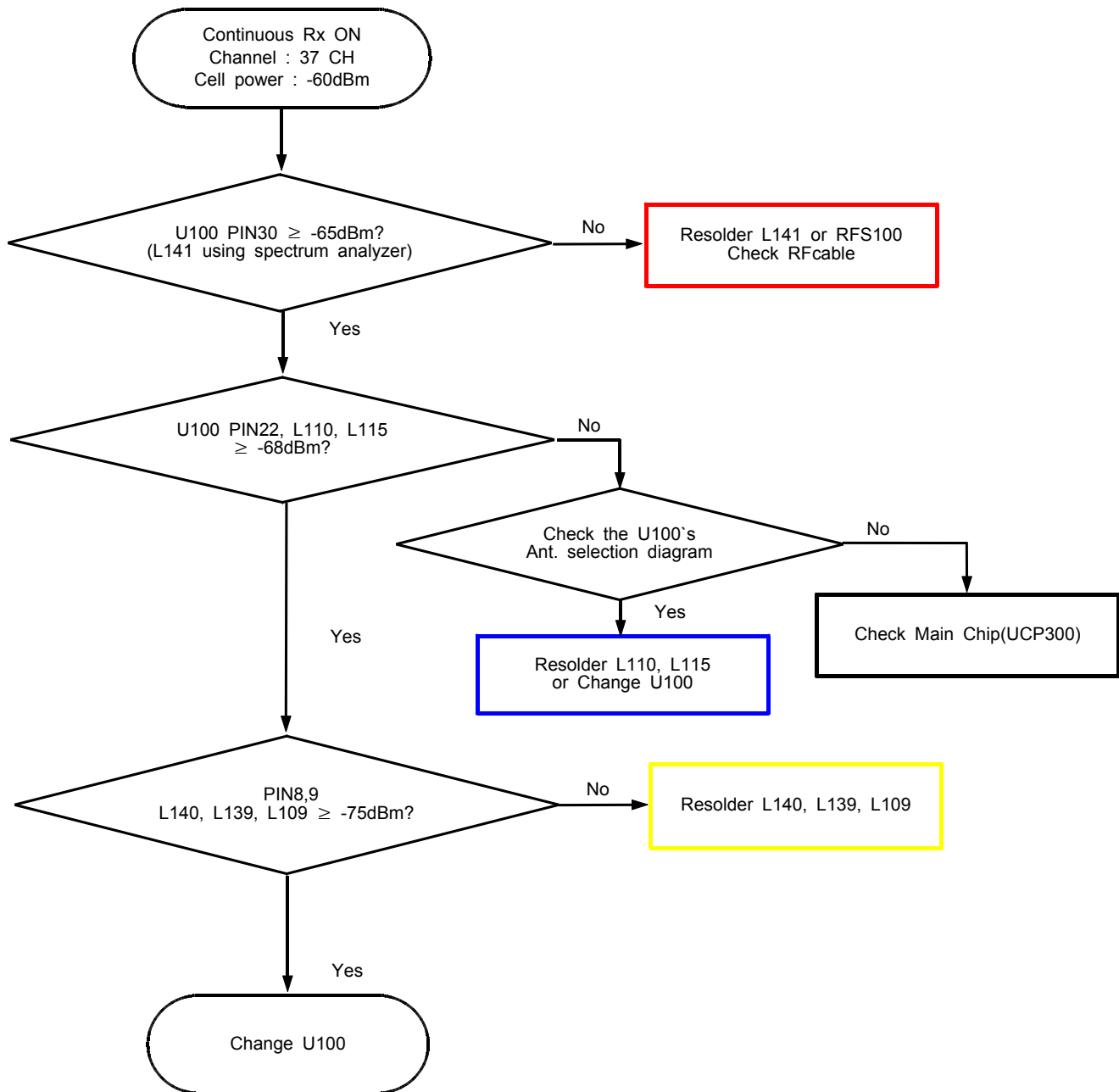
■ VT CAM



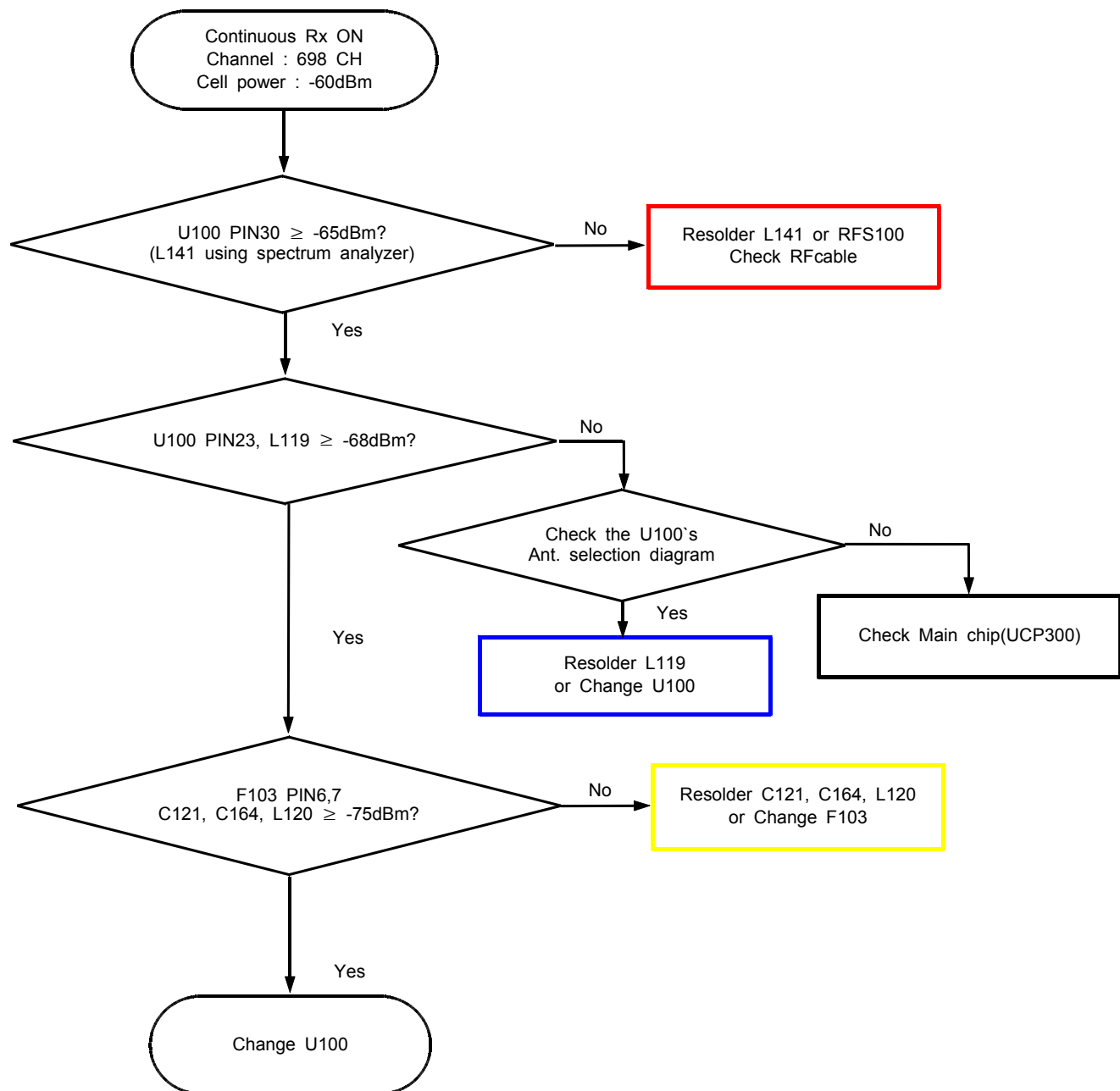


8-4-1. GSM850 Rx

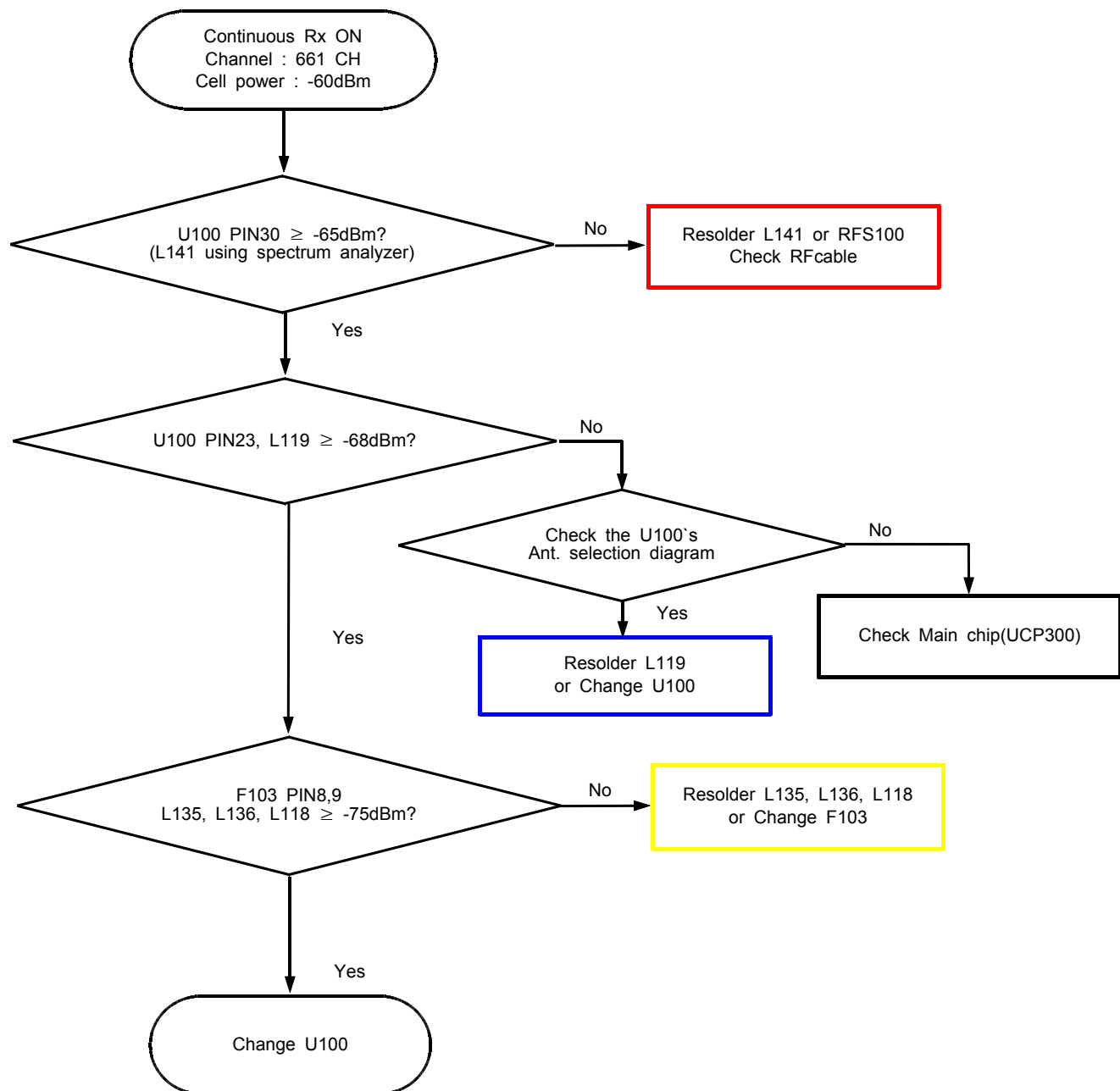
8-4-2. GSM900 Rx

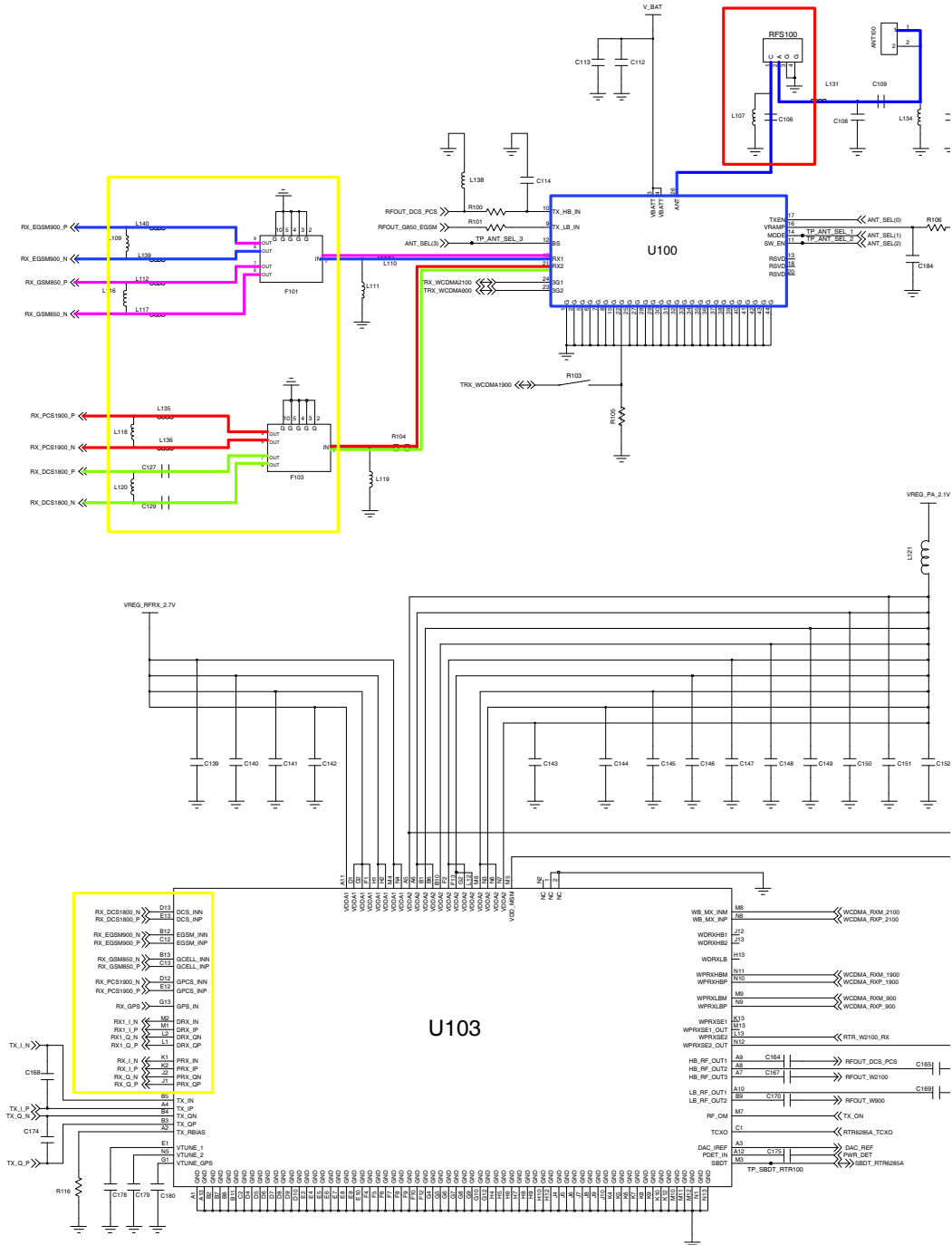


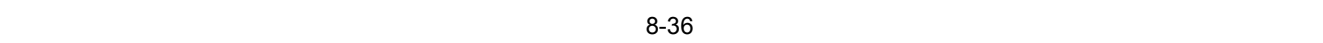
8-4-3. DCS Rx



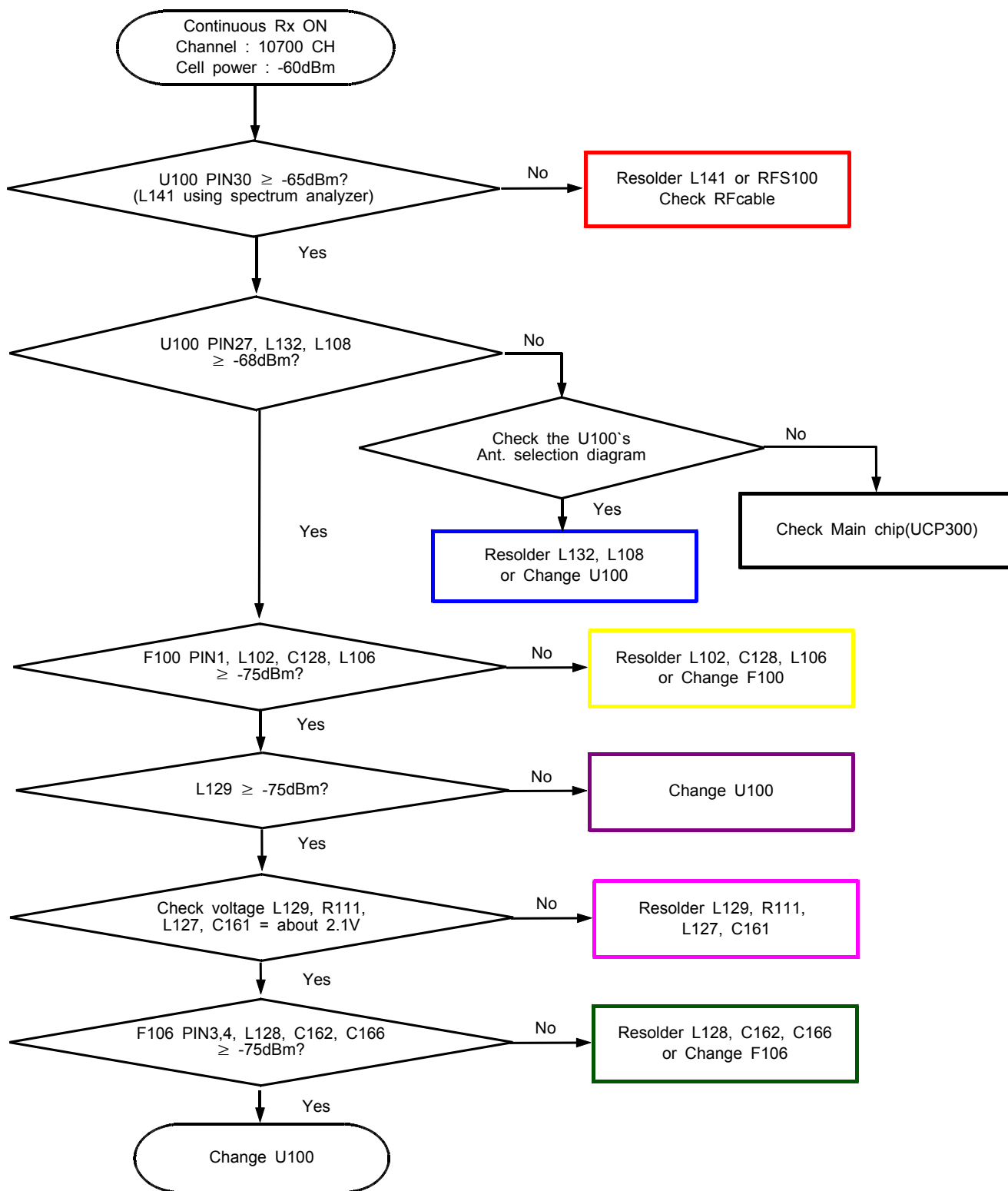
8-4-4. PCS Rx



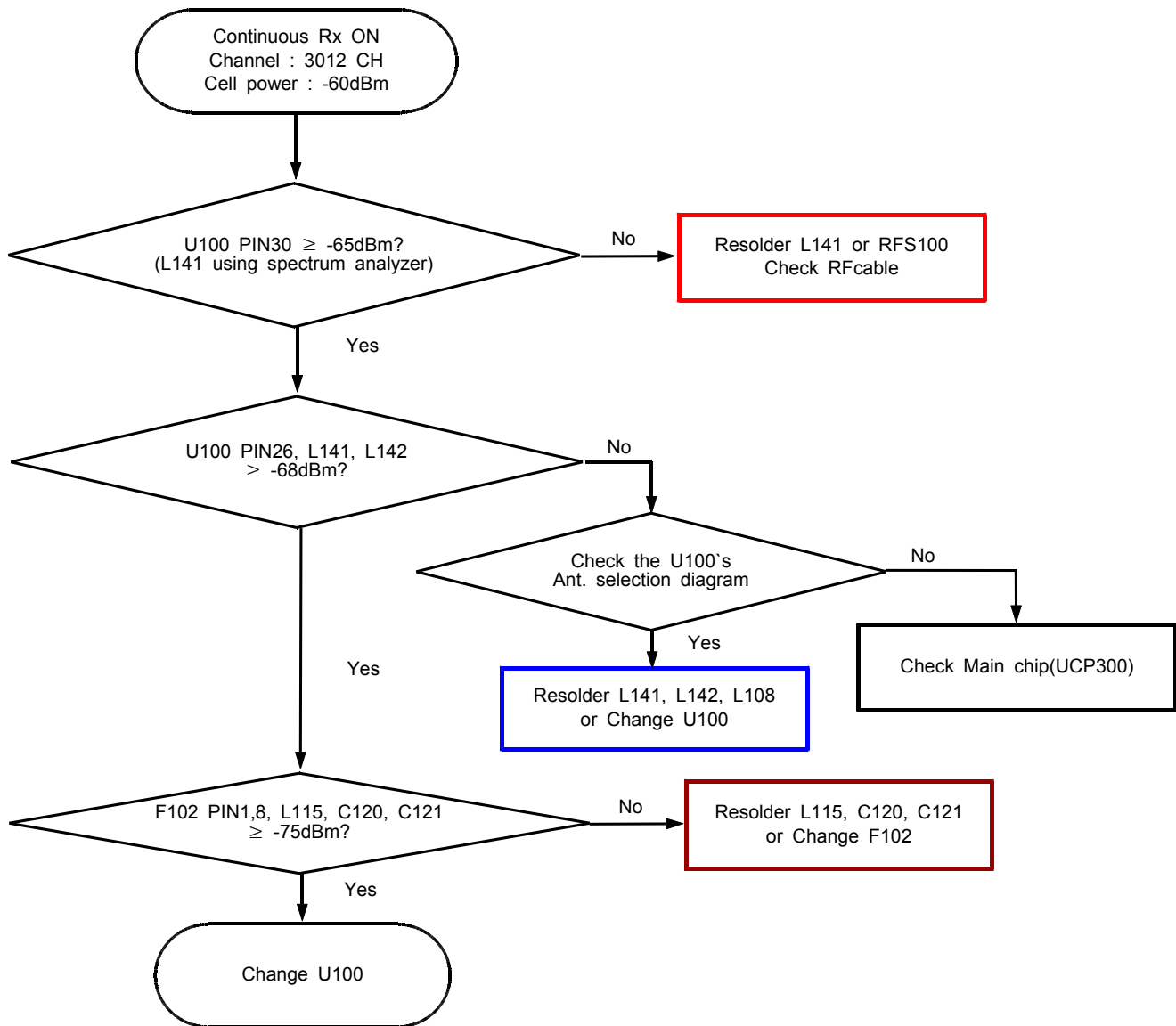


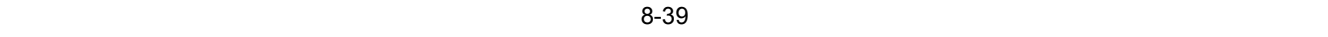


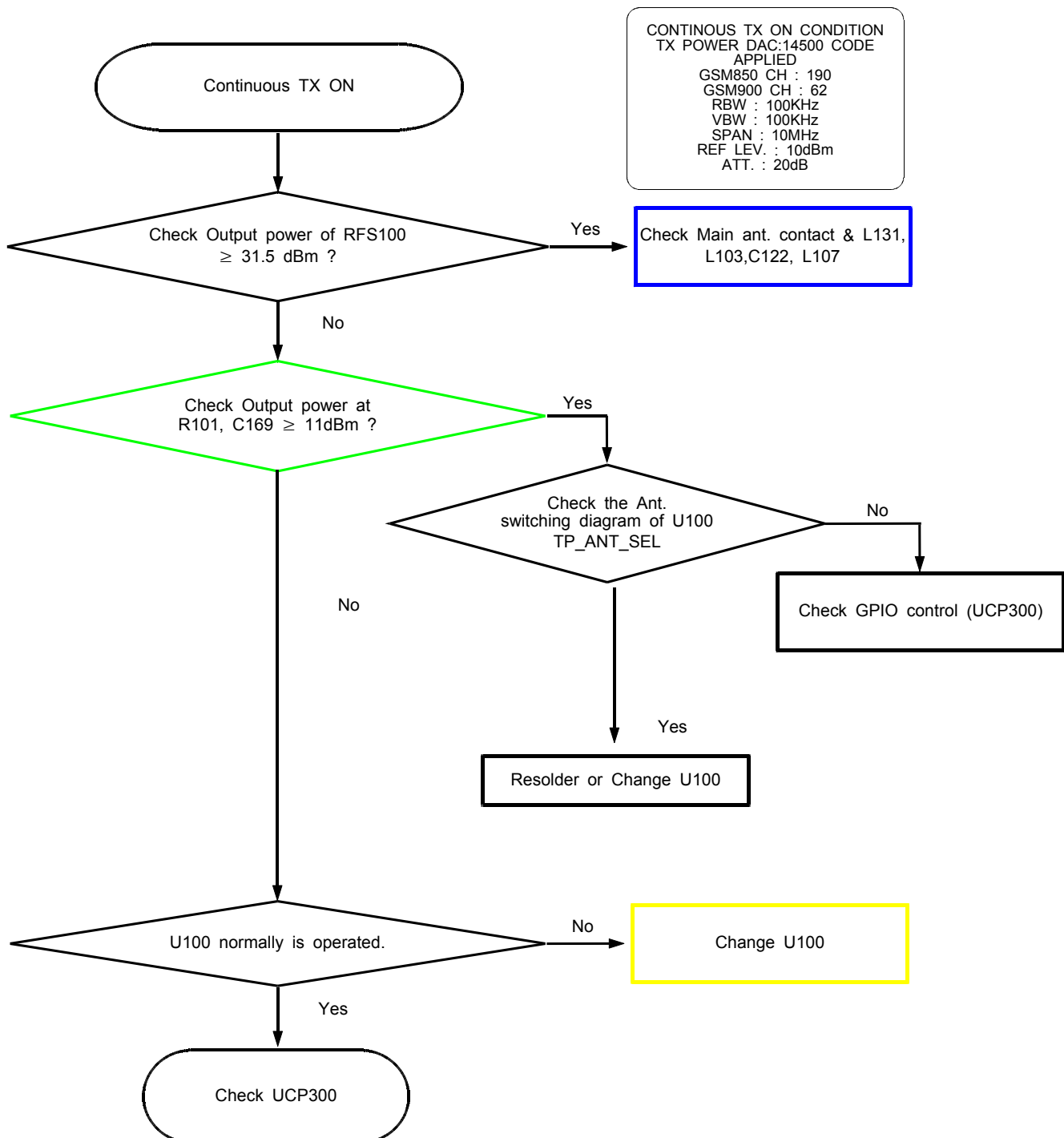
8-4-5. WCDMA Band1 (2100) Rx



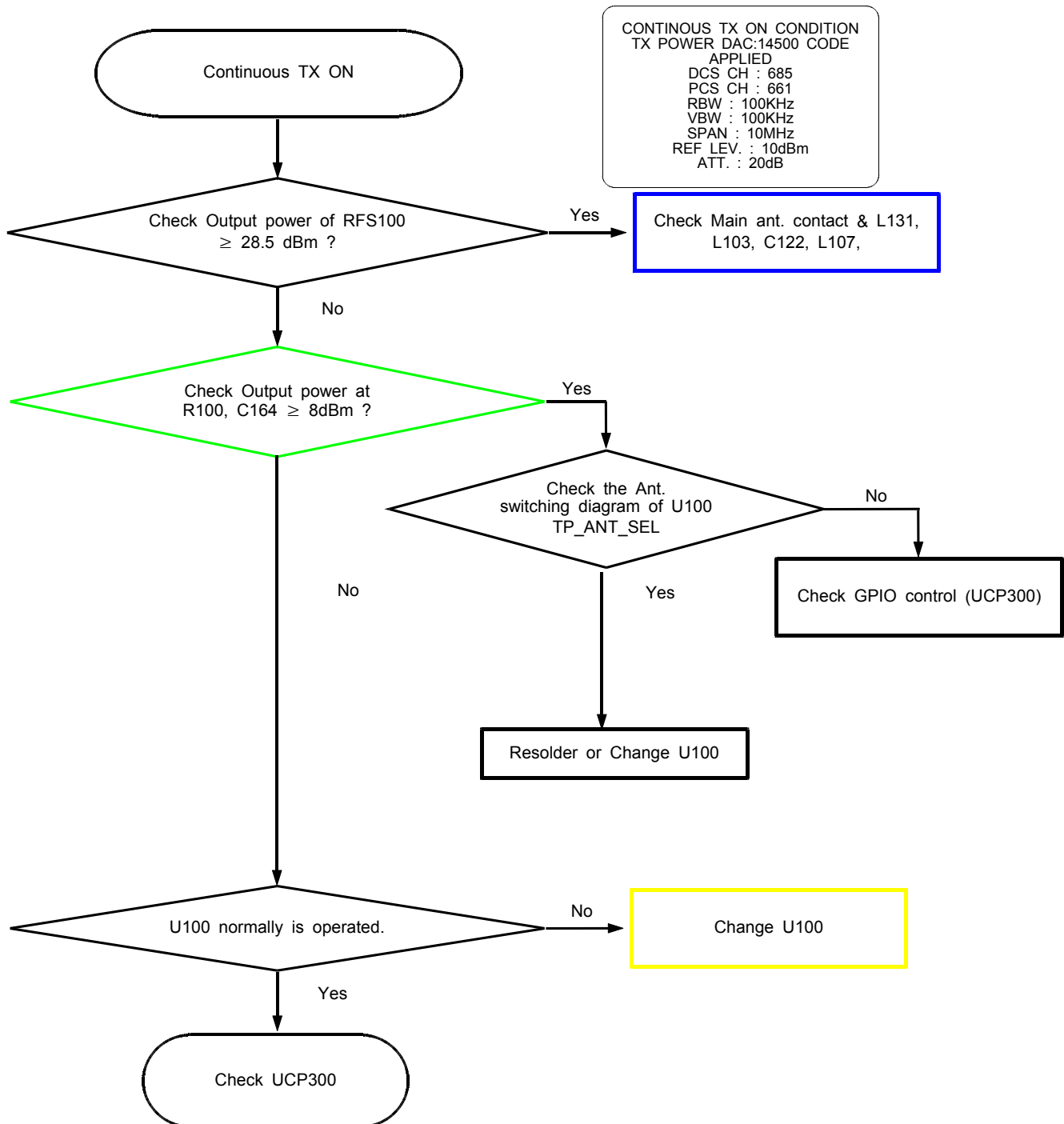
8-4-6. WCDMA Band8 (900) Rx

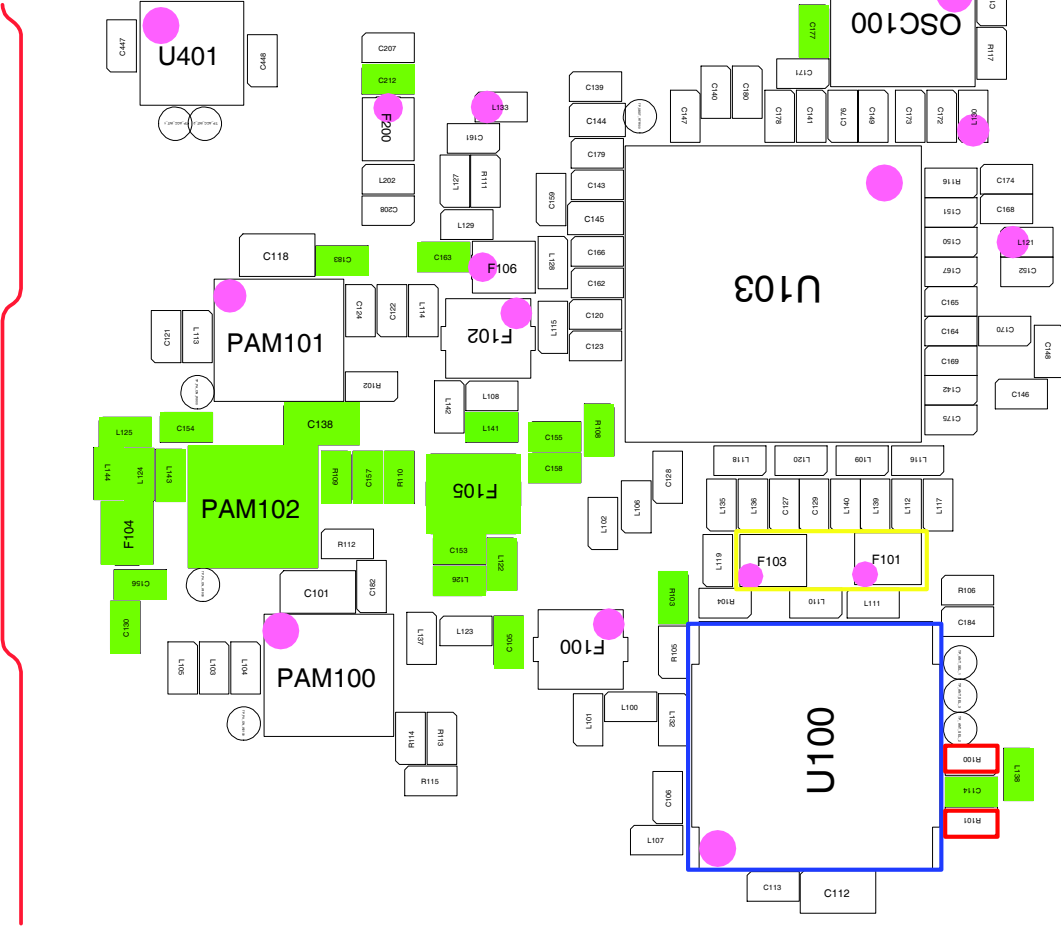


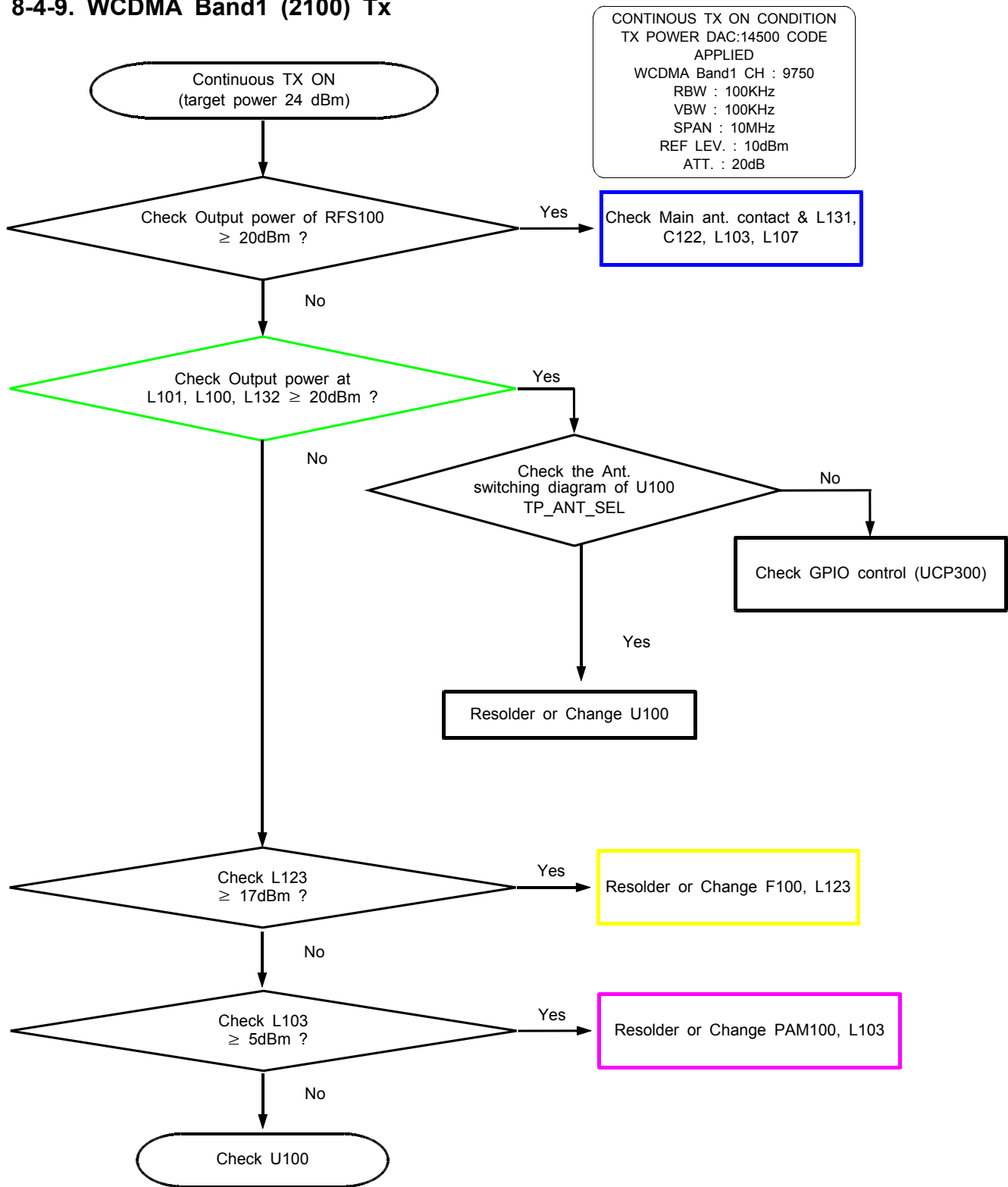


8-4-7. GSM850/900 Tx

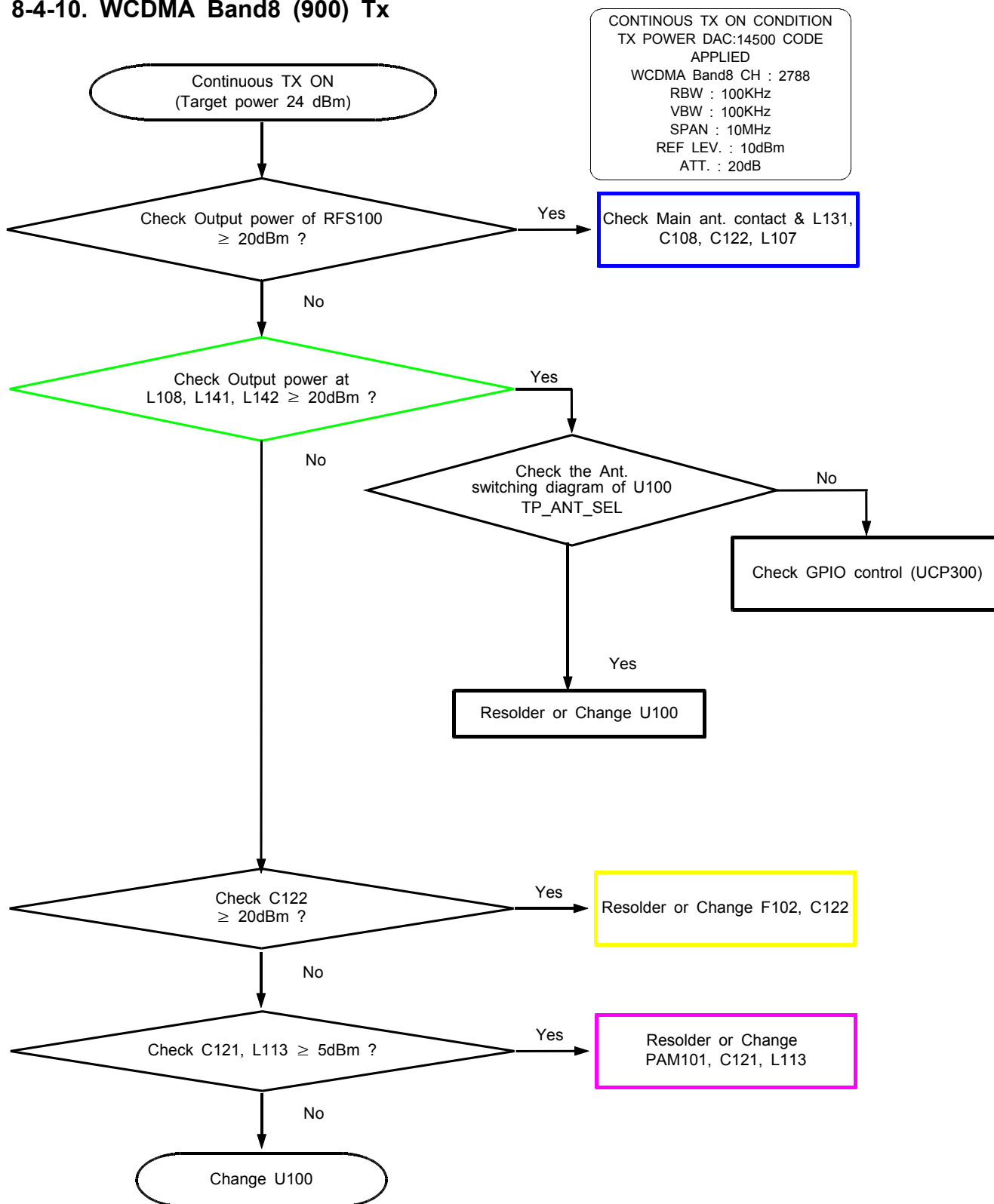
8-4-9. DCS/PCS Tx

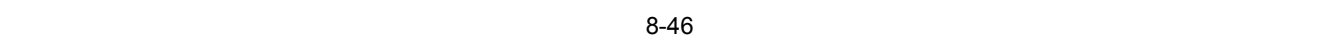


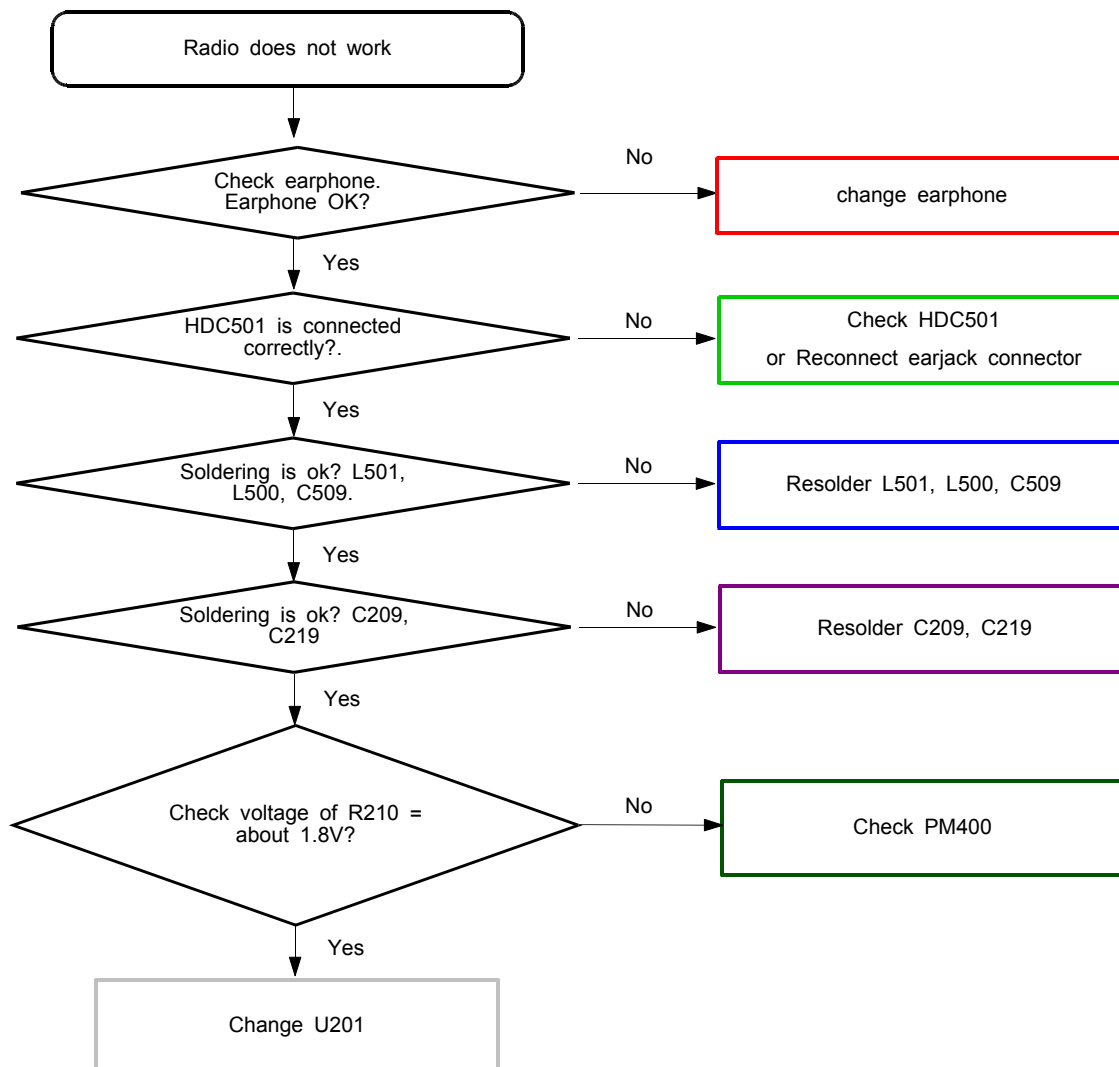


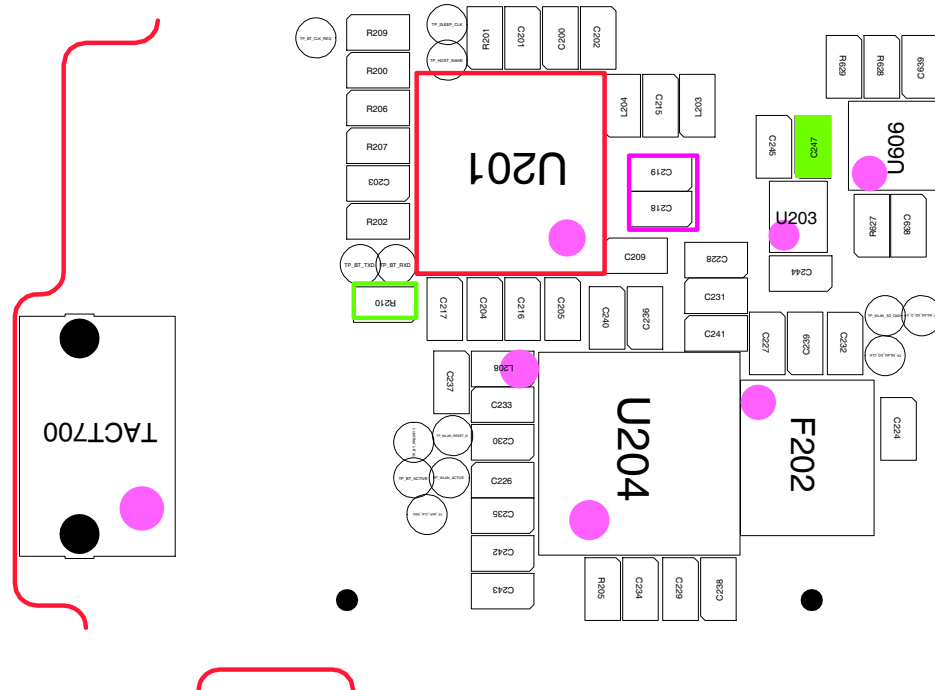
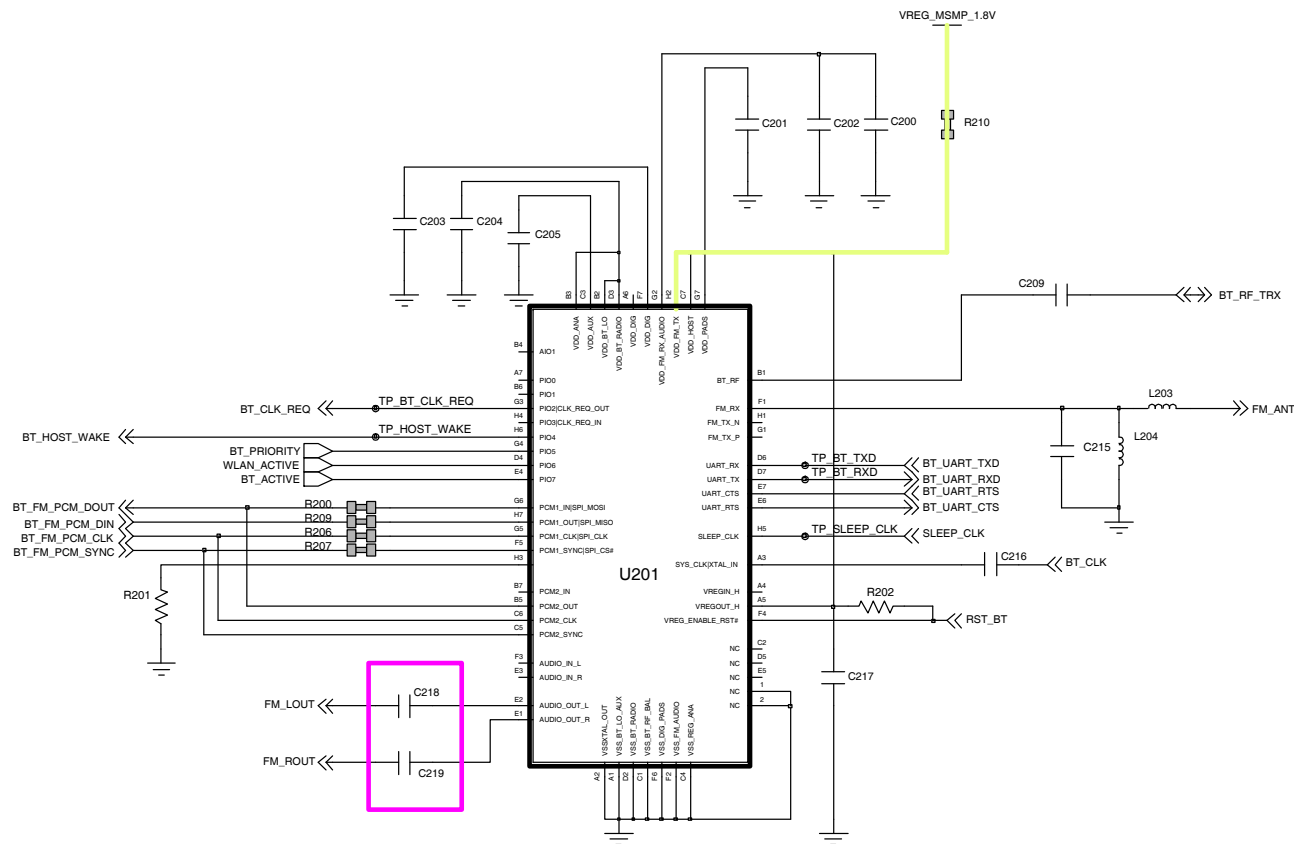
8-4-9. WCDMA Band1 (2100) Tx

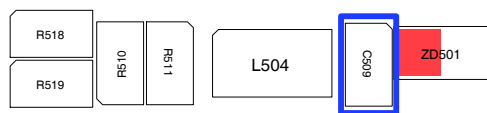
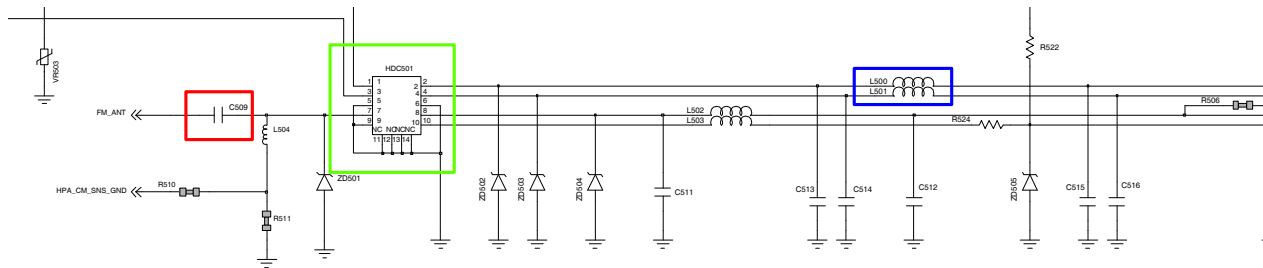
8-4-10. WCDMA Band8 (900) Tx

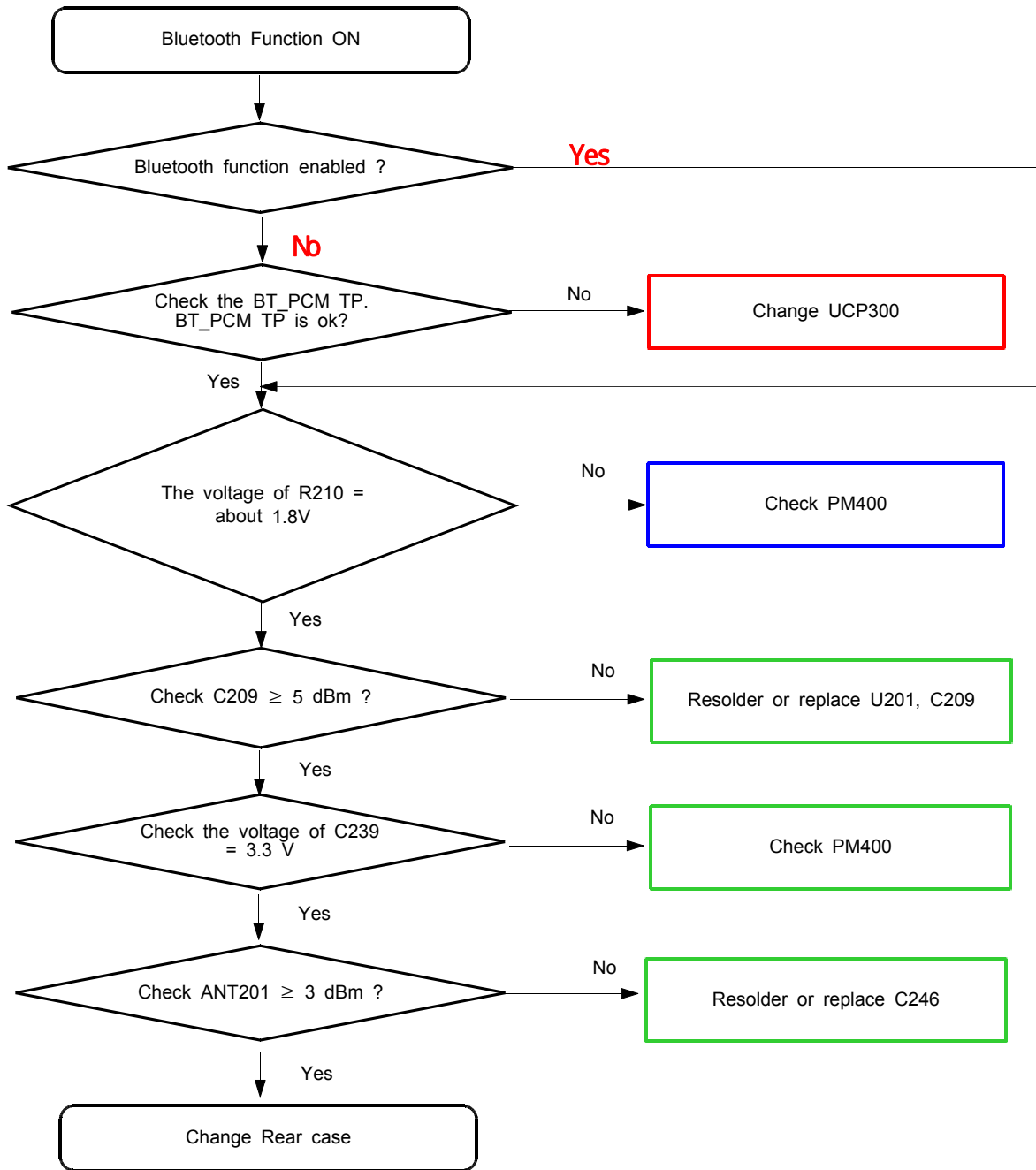


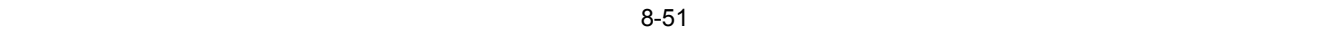


8-4-11. FM RADIO

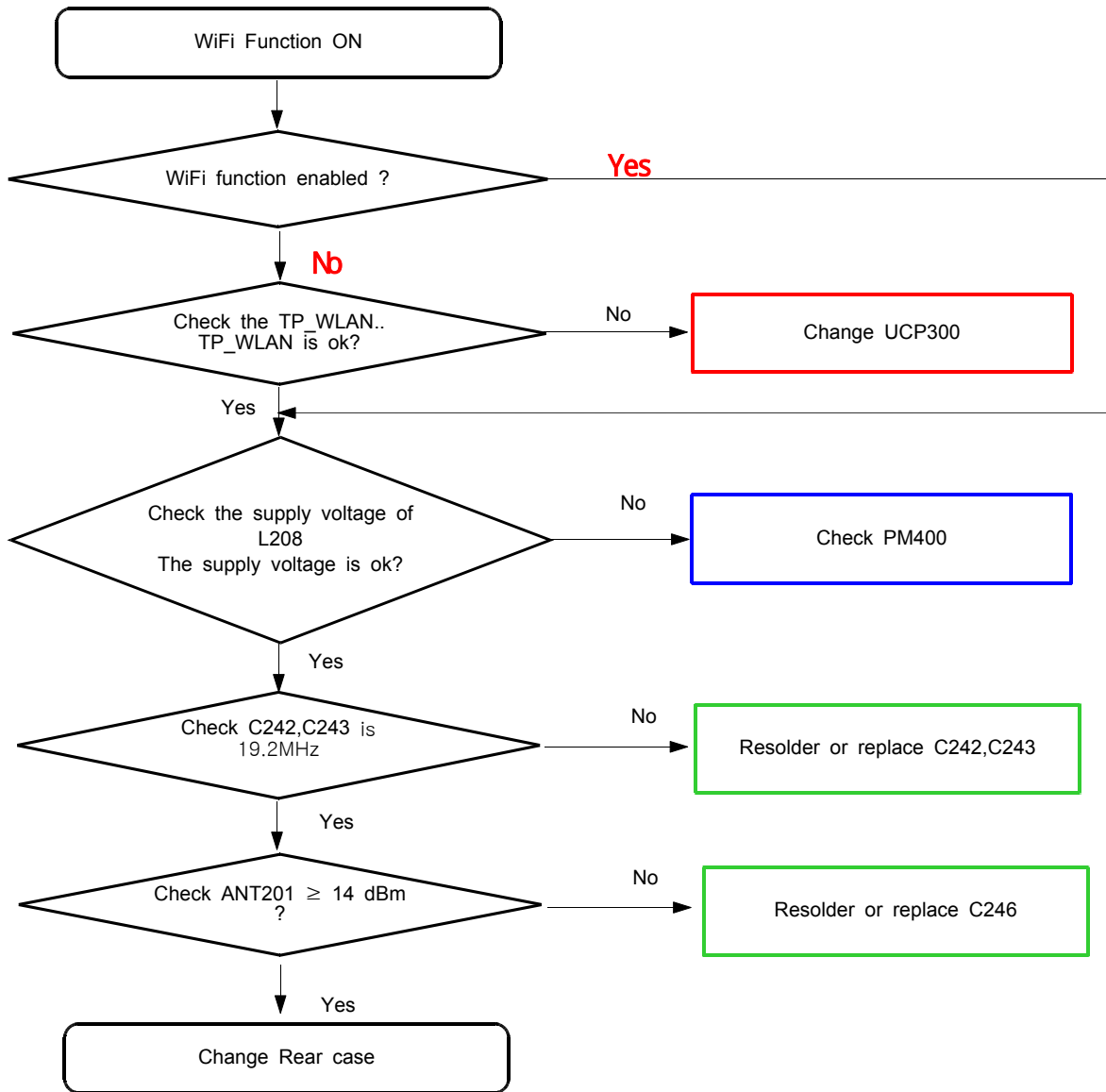


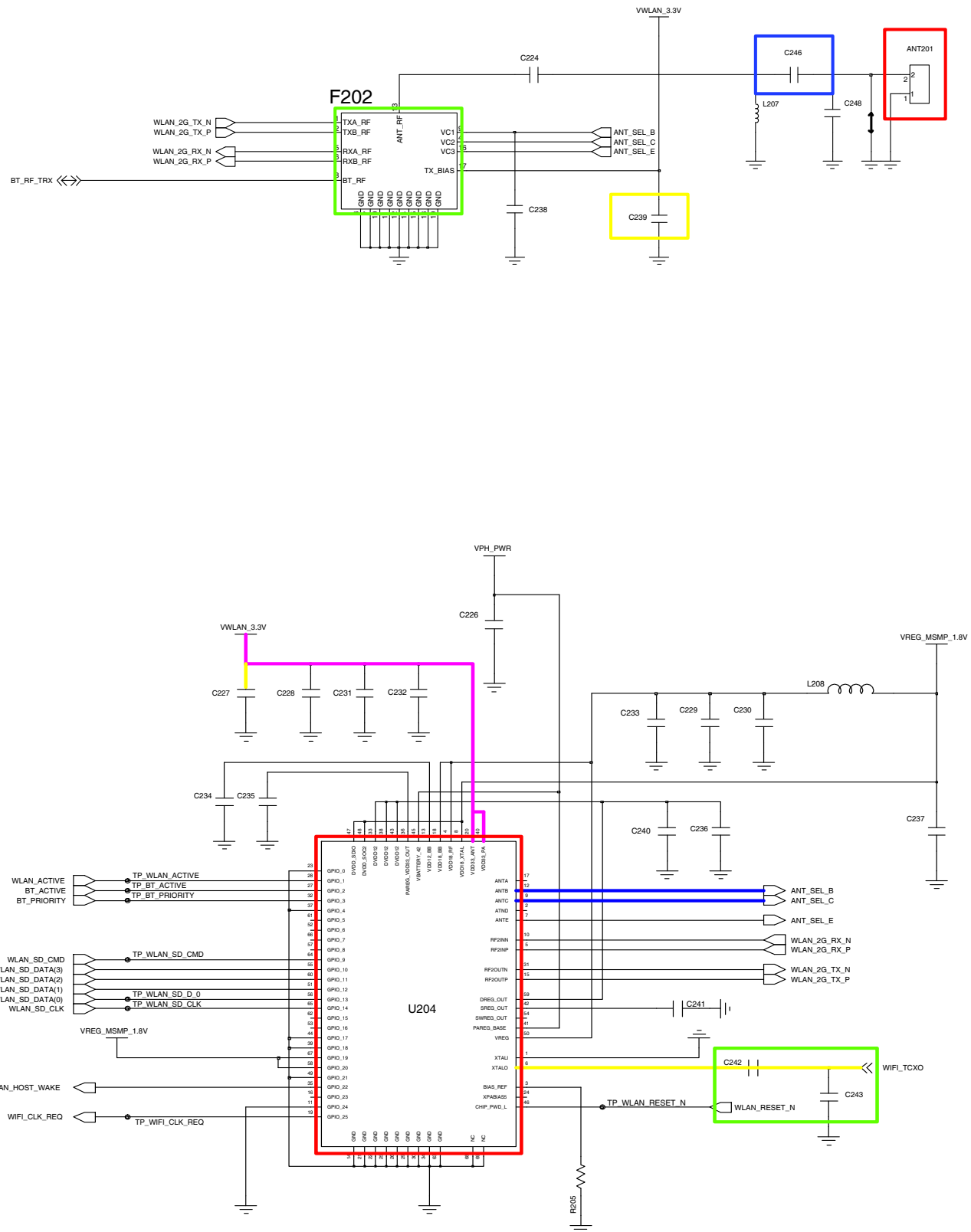


8-4-12. Bluetooth

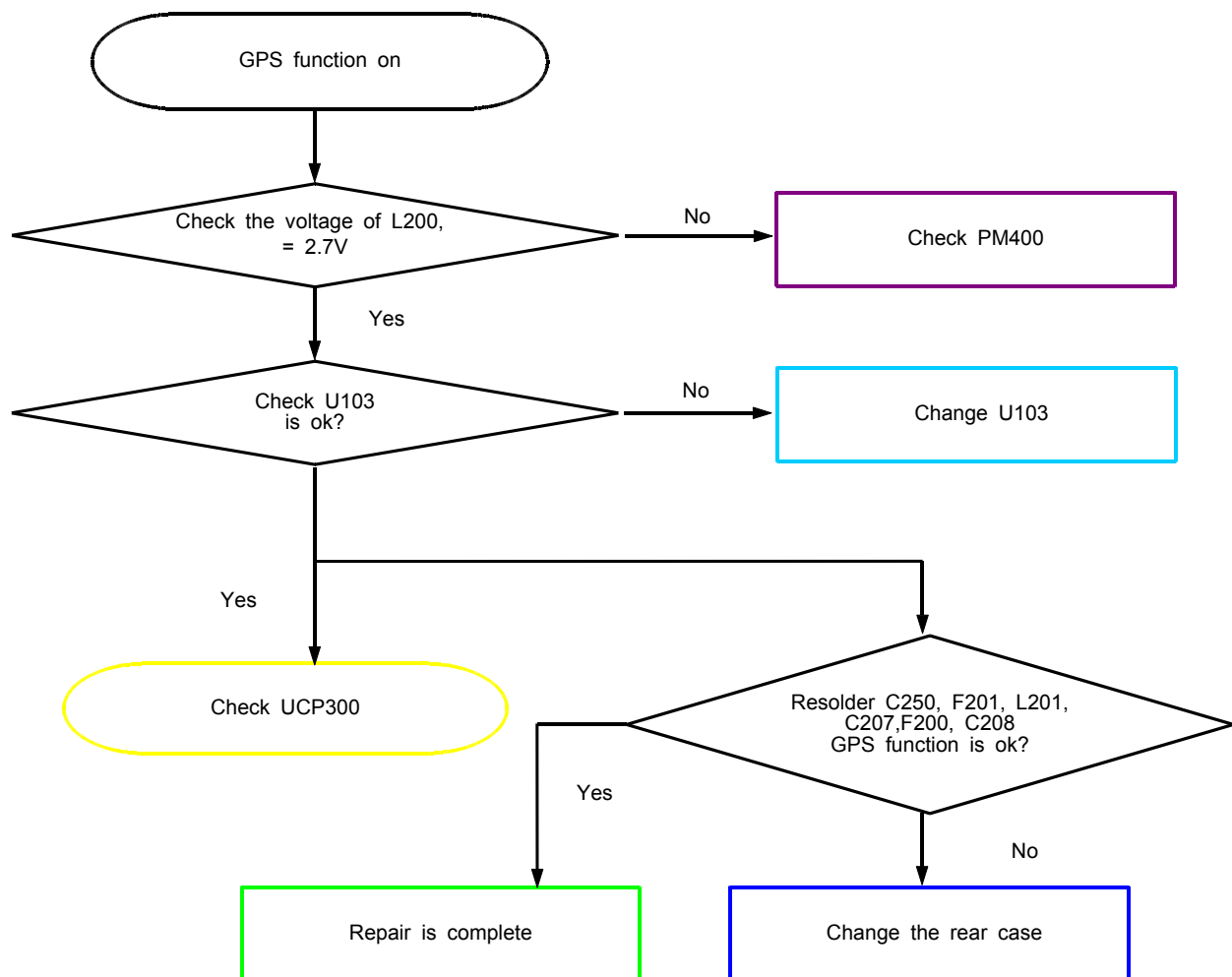


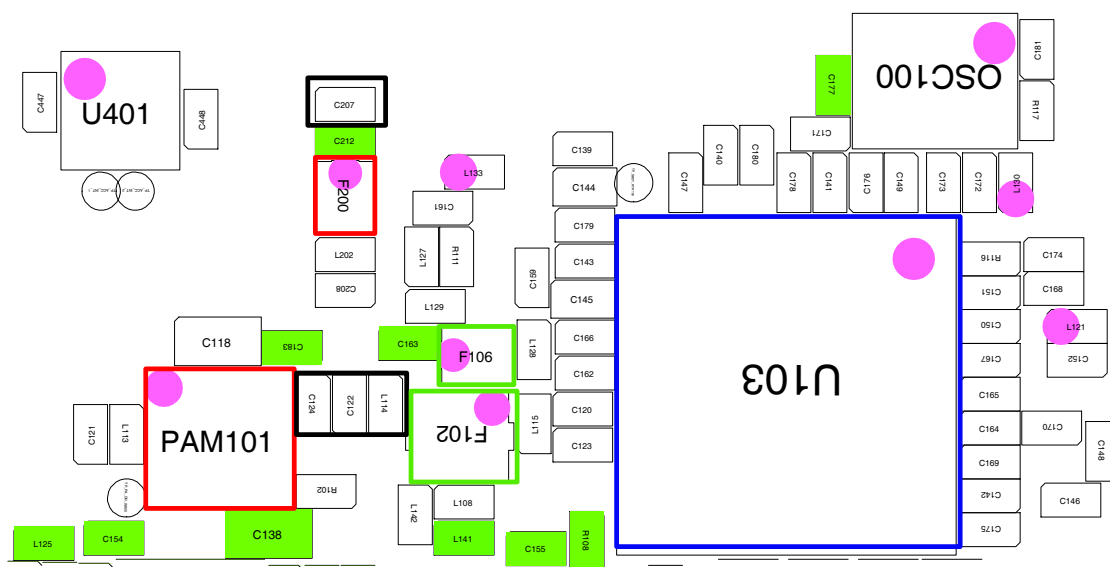
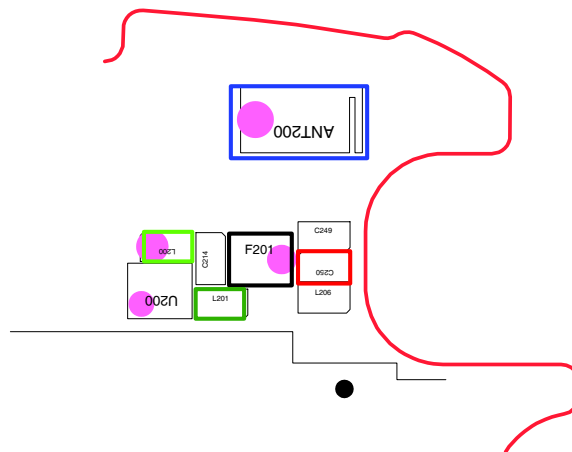
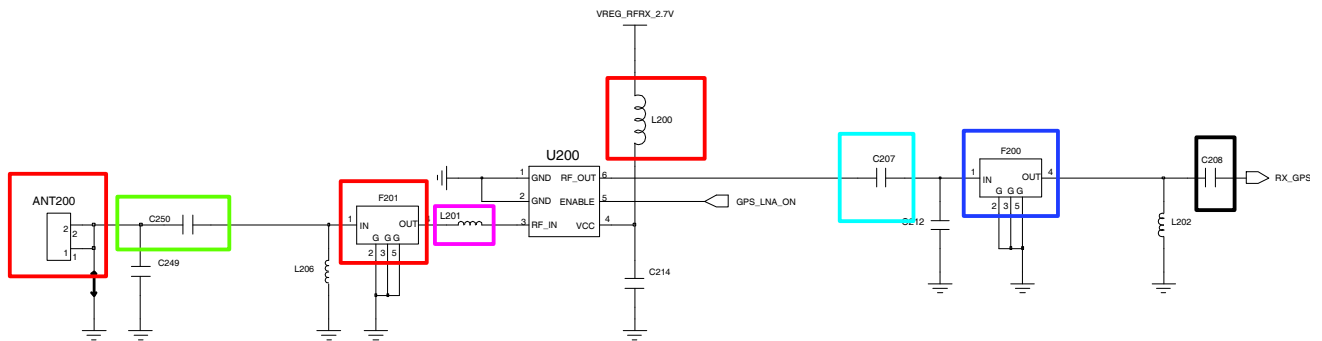
8-4-13. WiFi





8-4-14. GPS





7. Level 2 Repair

7-1. Disassembly

1

1) Unscrew the 8 points.



※ Caution

1) Be care of scratch and molding damage.

2

1) Disassemble the REAR CASE like below picture.
2) Lift the REAR CASE from down-side



※ Caution

1) Be care of scratch and molding damage.

3

1) Unscrew the 1 point from the board.

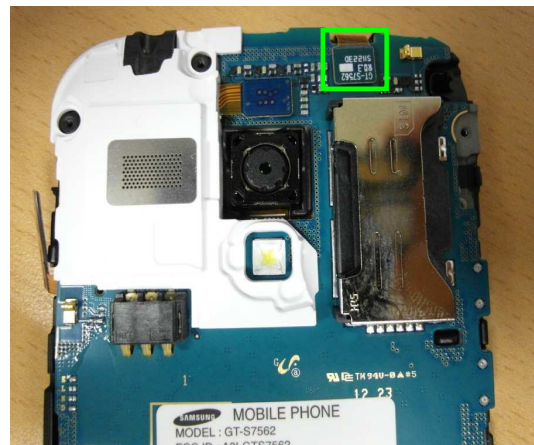


※ Caution

1) Be care of scratch and clips damaged.

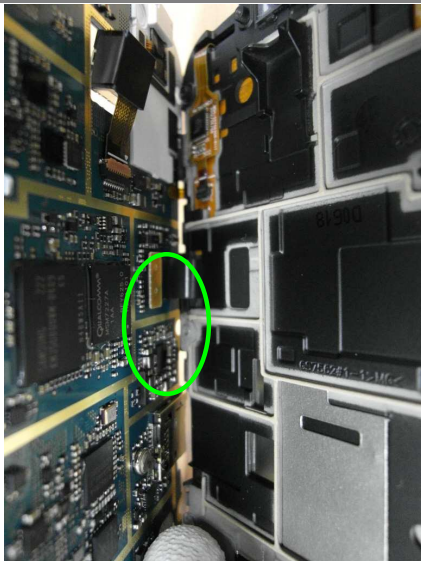
4

1) Detach RCV module FPCB Connector from the board.



※ Caution

1) Be care of scratch and molding damage.
2) Be care of damage to the FPCB.

5 1) Detach the Power Key FPCB from the board. 	6 1) Detach the PBA from the board. 
※ Caution 1) Be care of scratch and molding damage. 2) Be care of damage to the FPCB.	※ Caution 1) Be care of scratch and molding damage. 2) Be care of damage to the PCB.
7 1) Detach the Front Ass'y FPCB Connector from the front. 	8 1) Unscrew the 1 point from the board 2) Detach the RCV Module from the board. 
※ Caution 1) Be care of damage to the LCD FPCB.	※ Caution 1) Be care of scratch and molding damage. 2) Be care of damage to the PCB.

7-2. Assembly

1

- 1) Attach RCV module to the board.
- 2) Screw 1 point to the board



※ Caution

- 1) Be care of damage to Bracket.

2

- 1) Attach the Front Ass'y FPCB Connector to the PBA.



※ Caution

- 1) Be care of damage to LCD FPCB.

3

- 1) Attach the PBA to the board.



※ Caution

- 1) Be care of damage to PBA.

4

- 1) Attach the Power Key FPCB to the board.



※ Caution

- 1) Be care of damage to Powerkey FPCB

5

1) Attach the RCV module FPCB Connector to the PBA



※ Caution

1) Be care of damage to FPCB.

6

1) Screw 1 point to the board



※ Caution

1) Be care of scratch and clips damaged.

7

1) Attach the Rear Case



※ Caution

1) Be care of scratch and molding damage.
2) Be care of PBA damage.

8

1) Screw 8 points to the board.



※ Caution

1) Be care of scratch and molding damage.