

SAMSUNG

GSM TELEPHONE

GT-S5830B

SERVICE Manual

GSM TELEPHONE



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Notice

All functionality, features, specifications and other product information provided in this document including, but not limited to, the benefits, design, pricing, components, performance, availability, and capabilities of the product are subject to change without notice or obligation. Samsung reserves the right to make changes to this document and the product described herein, at anytime, without obligation on Samsung to provide notification of such change.

**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

5. MAIN Electrical Parts List

SEC CODE	DESIGN LOC	Description
0403-001870	D600	TDZ5V6J
0404-001646	ZD505	PMEG4005EJ
0406-001286	ZD504	PESD5V0L5UV
0406-001446	ZD506,ZD507	RD1301
0407-001002	D400,D500	DAN222TL
0504-001138	Q601	DTA114EM
0505-002341	Q600	SI1013X-T1-GE3
0601-002846	LED500,LED501	19-217UTD/S759/TR8
0801-003265	U300	74AUP1G74GM
0801-003383	U301	74LVC1G00GM
1001-001645	U601	FSA9280AUMX
1108-000373	UME300	KAT007012B-BRTT
1201-003145	U102	RF7205
1201-003168	U200	SFMG1M0Q001
1201-003210	PAM100	SKY77554-21
1202-001068	U502	TC75S56FE
1203-005074	U600	AAT1146IJS-1.2-T1
1203-006025	U504	AAT1274IWO-T1
1203-006159	U104	AAT2146IJS-0.6-T1
1203-006346	U500	FT8010MPX
1203-006732	U400	MAX8899GEWZ-T
1203-006760	U503	KTD259EHD-TR
1205-003297	U103	RTR6285
1205-004076	U202	AR6003G-AC2B-R
1205-004113	U201	BCM20780C0KUBG
1205-004180	UCP300	MSM7227-1-SCREEN
1209-002023	C524	BMA222
1209-002030	U604	MMC3280MS
1404-001221	TH300	NCP15WB473J04RC
1405-001298	V500,V501,V603,ZD500	LXES15AAA1-075
1405-001298	ZD501,ZD502,ZD503	LXES15AAA1-075
1405-001298	ZD600	LXES15AAA1-075
2007-000137	R325,R513,R515,R517	RC1005J202CS
2007-000138	R102,R111,R112,R322	RC1005J101CS
2007-000138	R326,R608	RC1005J101CS
2007-000140	R113,R303,R512	RC1005J102CS

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2007-000141	R304,R305,R306,R307	RC1005J222CS
2007-000141	R311,R312,R313,R314	RC1005J222CS
2007-000144	R400	RC1005J512CS
2007-000148	R308,R502,R600,R604	RC1005J103CS
2007-000148	R615,R622	RC1005J103CS
2007-000149	R607	RC1005J123CS
2007-000151	R623,R624	RC1005J153CS
2007-000157	R610,R611,R612,R613	RC1005J473CS
2007-000157	R614	RC1005J473CS
2007-000162	R300,R302,R315,R319	RC1005J104CS
2007-000162	R320,R324,R327,R410	RC1005J104CS
2007-000162	R508,R526,R527,R528	RC1005J104CS
2007-000165	R518	RC1005J204CS
2007-000166	R121	RC1005J304CS
2007-000168	R616	RC1005J474CS
2007-000170	R509	RC1005J105CS
2007-000172	R603	RC1005J100CS
2007-001295	R405,R406	RC1005J390CS
2007-001298	R329,R401	RC1005J510CS
2007-001301	R110	MCR01MZP5J680
2007-001325	R129	RC1005J332CS
2007-001333	R521	MCR01MZP5J183
2007-001339	R609	RC1005J184CS
2007-002796	R511,R514	MCR01MZP5J511
2007-002965	R525	RK73K1ETP150J
2007-002970	R500,R501	MCR01MZP5J560
2007-003004	R106	TSR16GJ131V
2007-003013	R128	MCR01MZP5J242
2007-003015	R605,R606	MCR01MZP5J2R2
2007-003030	R105	RC1005J910CS
2007-007107	R407	RC1005F1003CS
2007-007132	R204	RC1005F153CS
2007-007139	R309,R310	MCR01MZP5F4702
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2007-007589	R122	RK73H1ETP6802F
2007-007875	R529	RK73H1ETP1603F
2007-008298	R301	RC1005F49R9CS
2007-008766	R323,R621	ERJ2RKF6041X
2007-008812	R404	RC1005F2153CS
2007-009794	R205	RK73H1HTTC6191F
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2203-000254	C106,C113,C162,C204	GRP155R71C103K
2203-000278	C151,C200,C203,C209	GRP1555C1H100D
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2203-001017	C168,C177	GRP1555C1H4R0C
2203-001153	C139,C141	GRP1555C1H680J
2203-001385	C132,C134	GRP1555C1H1R5CZ01E
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2203-002668	C116	C1005CG1H0R5BT
2203-002677	C135,C238	CL05CR75BB5NNNC
2203-005057	C184,C516,L125	GRP1555C1H8R2CZ01E
2203-005249	C534	GRM188R71H104K
2203-005382	C167,C233,C235	GRP1555C1H6R0BZ01E
2203-005393	C176	GRP1555C1H5R0BZ01E

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2203-005480	C324	GRP155R71A333KA01E
2203-005806	C117	GRP033R71C102KD01E
2203-006048	C101,C157,C160,C172	GRM155R71A104K
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2203-006048	C508,C511,C512,C519	GRM155R71A104K
2203-006048	C522,C525,C526,C529	GRM155R71A104K
2203-006123	C218	GRM0335C1E5R6CD01D
2203-006137	C533	CL05B223KONC
2203-006187	C130,C131	GRM0335C1E3R9B
2203-006201	C241	GRM188R60J225KE01D
2203-006208	C165,C500,C612	CM105X5R475M06AT
2203-006260	C400	GRM155R61A224KE19E
2203-006348	C617	CV105X5R105K25AT
2203-006399	C201,C202,C215,C216	GRM155R60J105KE19D
2203-006399	C222,C302,C304,C305	GRM155R60J105KE19D
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2203-006399	C418,C419,C423,C424	GRM155R60J105KE19D
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2203-006474	C509	GRM21BR60J226ME
2203-006562	C431,C444	CV05X5R105K10AH
2203-006707	C125,C127	GRM0335C1E4R7C
2203-006824	C137,C164,C401,C402	CV105X5R475K10AT
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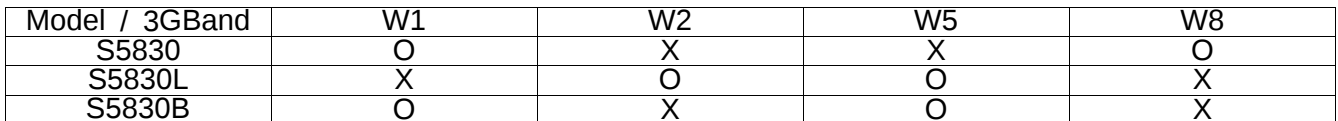
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2203-007240	C310,C316,C506	CL10A226MQ8NRNE
2203-007271	C207,C221,C224,C227	CL05A225KP5NSNC
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2203-007317	C170	CV05X5R475M06AH
2203-007449	C606,C607	CV03X5R105M06AH-SAM
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2703-001747	L101,L120,L207	LL1005-FH4N7S
2703-001750	L118	LL1005-FH2N2S
2703-002170	L134	CIH05T6N8JNC
2703-002176	L108,L128	CIH05T2N7SNC
2703-002198	L117,L126	CIH05T10NJNC
2703-002200	C129,L110	CIH05T18NJNC
2703-002204	L300	CIH05T22NJNC
2703-002205	C133,L132	CIH05T3N9KNC
2703-002207	L121	CIH05T3N3SNC
2703-002208	L114	CIH05T2N2SNC
2703-002267	L123,L202	CIH05T4N7SNC
2703-002268	L105,L127	CIH05T8N2JNC
2703-002308	L129,L205,L500	CIH05T68NJNC
2703-002309	L515,L516	CIH05T82NJNC
2703-002314	L208	CIH05T47NJNC
2703-002365	R104	CIH05T1N2SNC
2703-002544	L119	LQW15AN8N2H00D
2703-002793	L107,L109	LQP03TN5N6J00D
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2703-002861	L508	LPF3010T-100M
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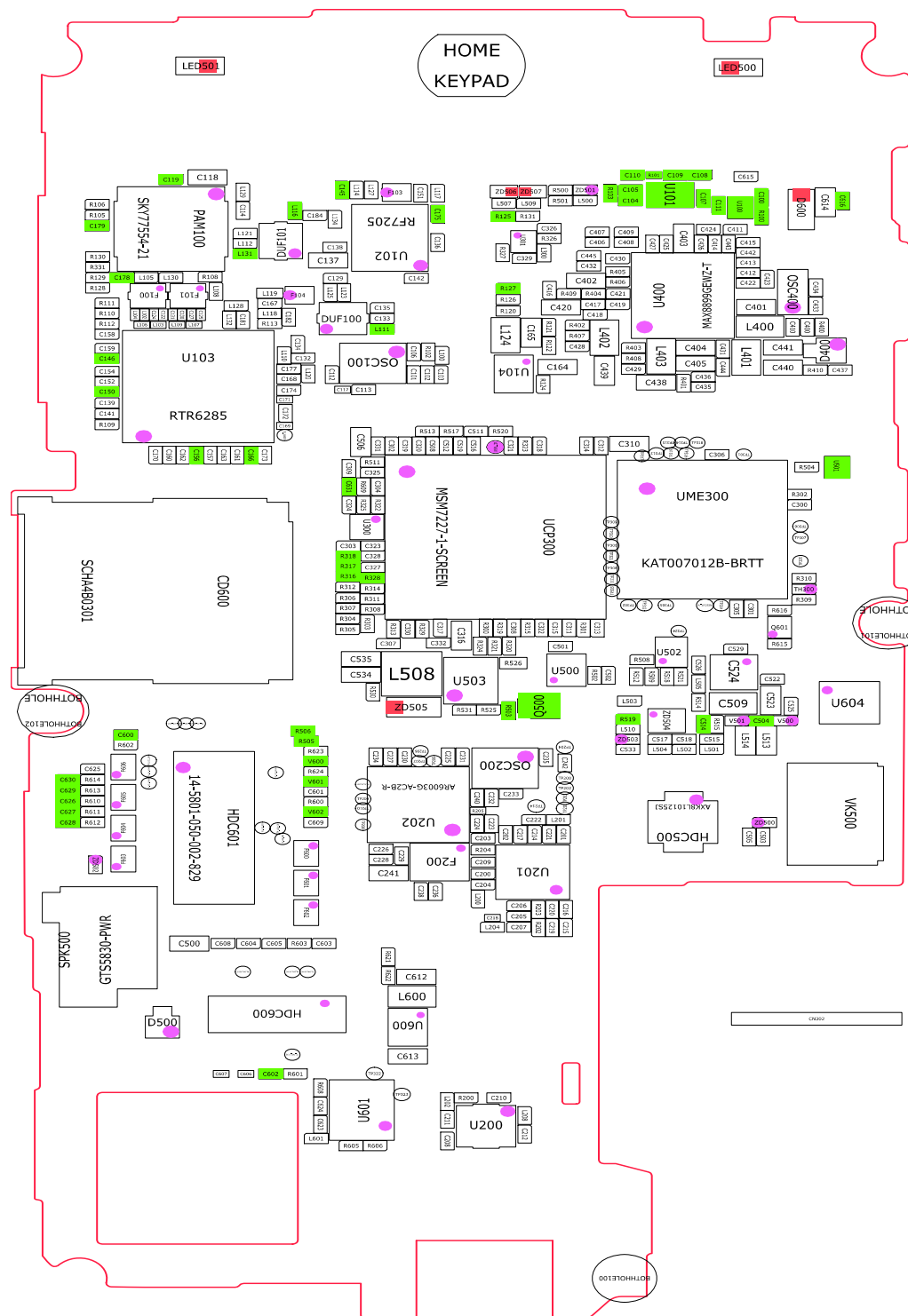
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2801-004909	OSC400	EXS00A-MU00031
2801-005045	OSC200	CXC6X260000GHVRE00
2809-001366	OSC100	1XTV19200AEB
2901-001424	F600,F601,F602,F603	AVRC-14S-03Q-030-100R
2901-001424	F604,F605,F606	AVRC-14S-03Q-030-100R
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2904-001702	F104	SFHG40YQ101
2904-001889	F100	SFRM81DY102
2904-001920	F101	SFRG42MY002
2910-000068	DUF100	SAYFP836MCA0F00
2910-000099	DUF101	SFXG50PD502
2911-000158	F200	LMFEFAGB-C05
3301-001438	L204	BLM15BB750SN1D
3301-001659	L200,L201,L510	BLM15AG601SN1
3301-001756	L100	BLM15HG102SN1D
3301-001789	L601	BLM15EG121SN1D
3301-001885	L501,L502,L503,L504	BLM15HD182SN1D
3301-001885	L505,L507,L509	BLM15HD182SN1D
3301-002037	L513,L514	BLM18KG601SN1
3705-001731	RFS100	KMS-560-002-BEF
3709-001456	SIM600	500-6P-2.7X
3709-001575	CD600	SCHA4B0301
3710-002632	HDC602	AXT410164AW1
3711-005550	HDC500	AXK8L10125SJ
3711-006856	HDC601	14-5801-050-002-829
3711-007107	HDC600	AXE630124AW1
3711-007533	BTC600	202-03000-00347
3712-001326	ANT201	HM01-AR0145
3712-001348	ANT500,ANT501	HJ-ICT-05Y
3712-001361	ANT200	HJ-ICT-02Y
3722-003065	IFC600	HY07-AB0721
GH59-08444A	LED502	CHP-C4040-200-PB2016
GH80-03320A	R108,R118,R200	PB-SHORT-1005

SEC CODE	DESIGN LOC	Description
0403-001870	D600	TDZ5V6J
0404-001646	ZD505	PMEG4005EJ
0406-001286	ZD504	PESD5V0L5UV
0406-001446	ZD506,ZD507	RD1301
0407-001002	D400,D500	DAN222TL

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

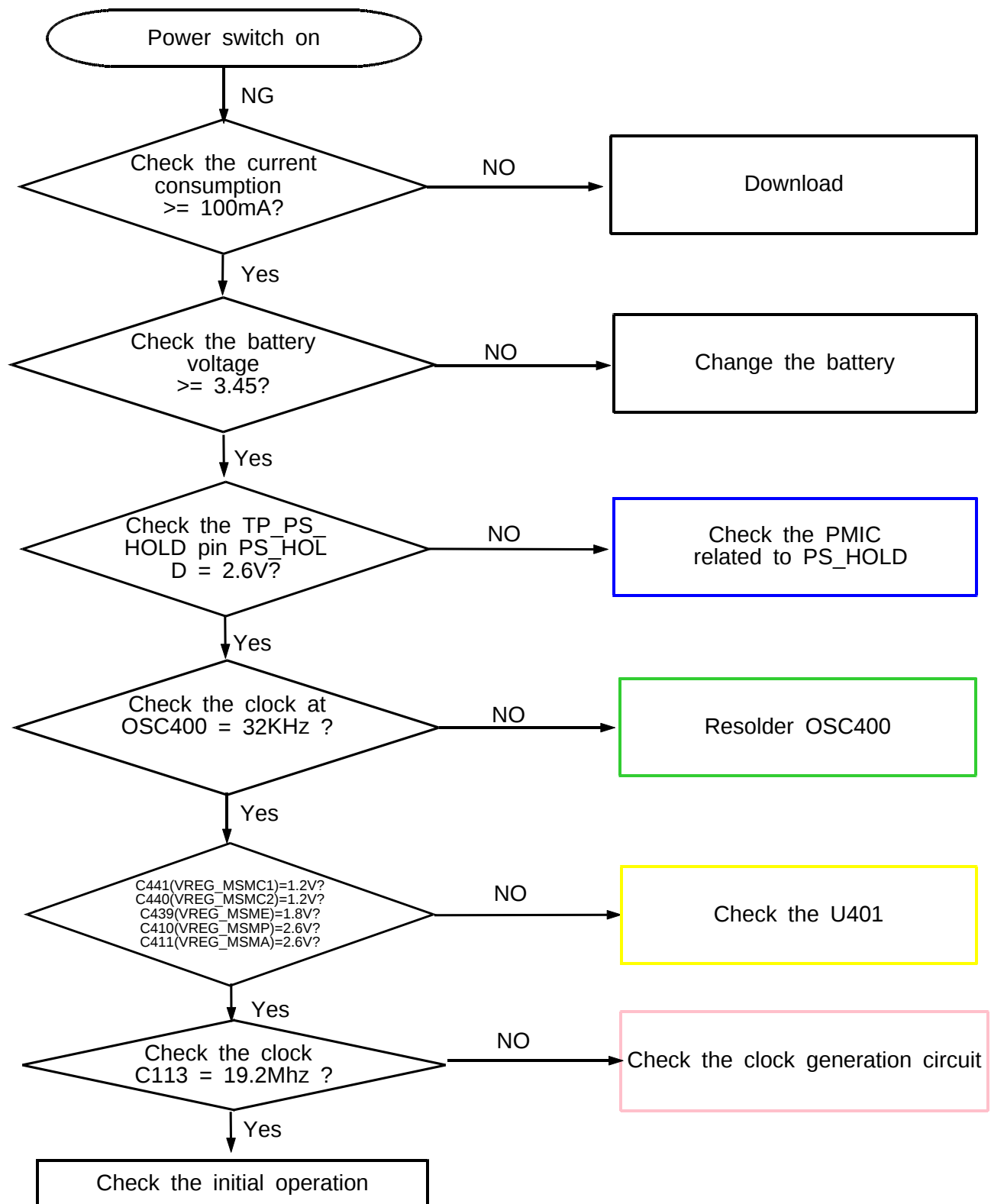
8-1. Block Diagram

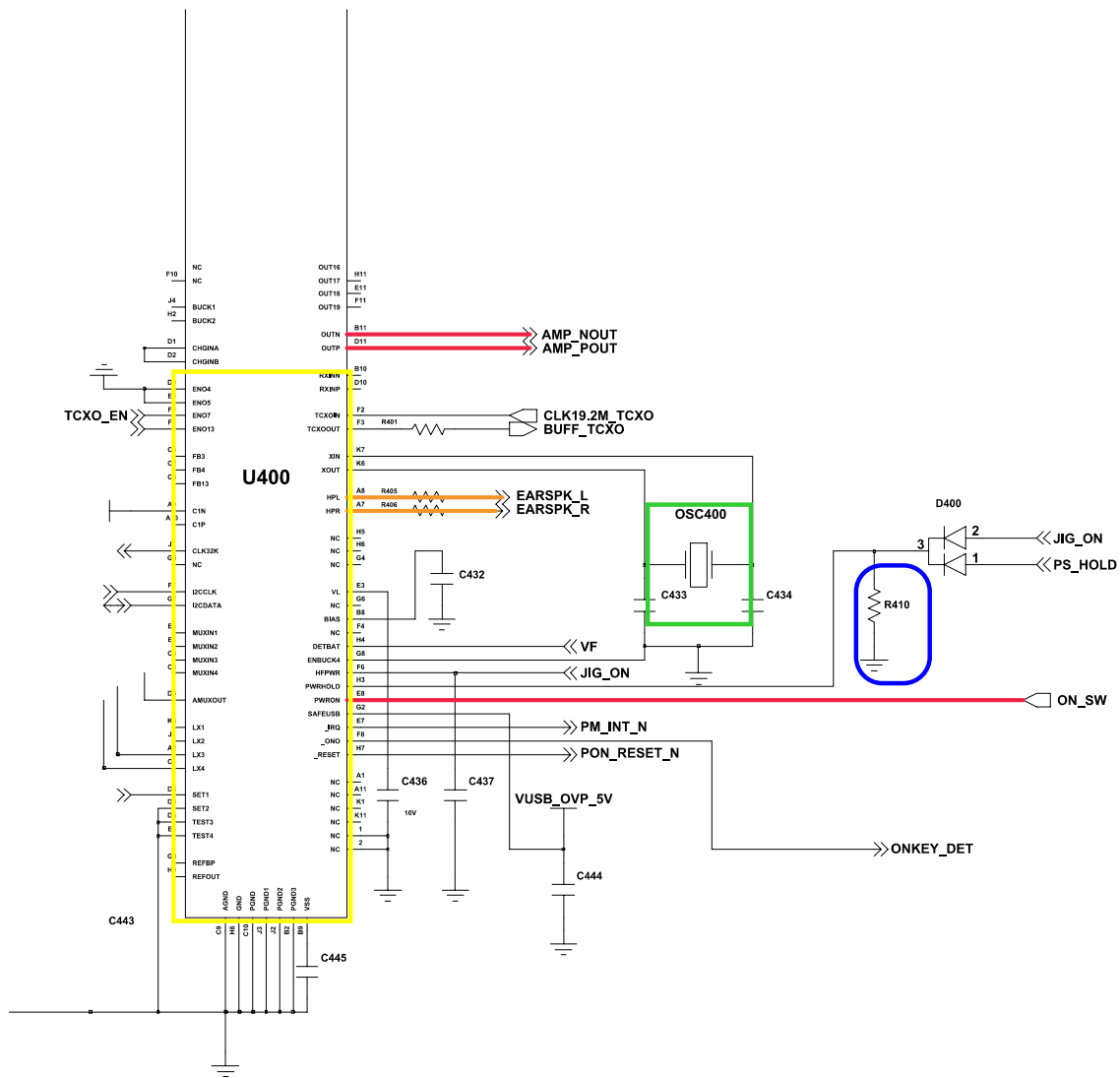




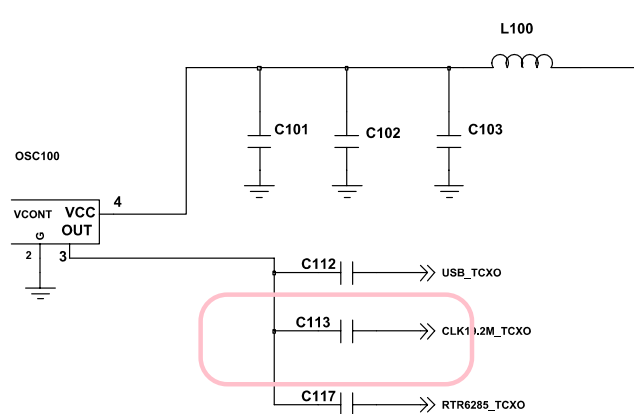
8-3. LOGIC

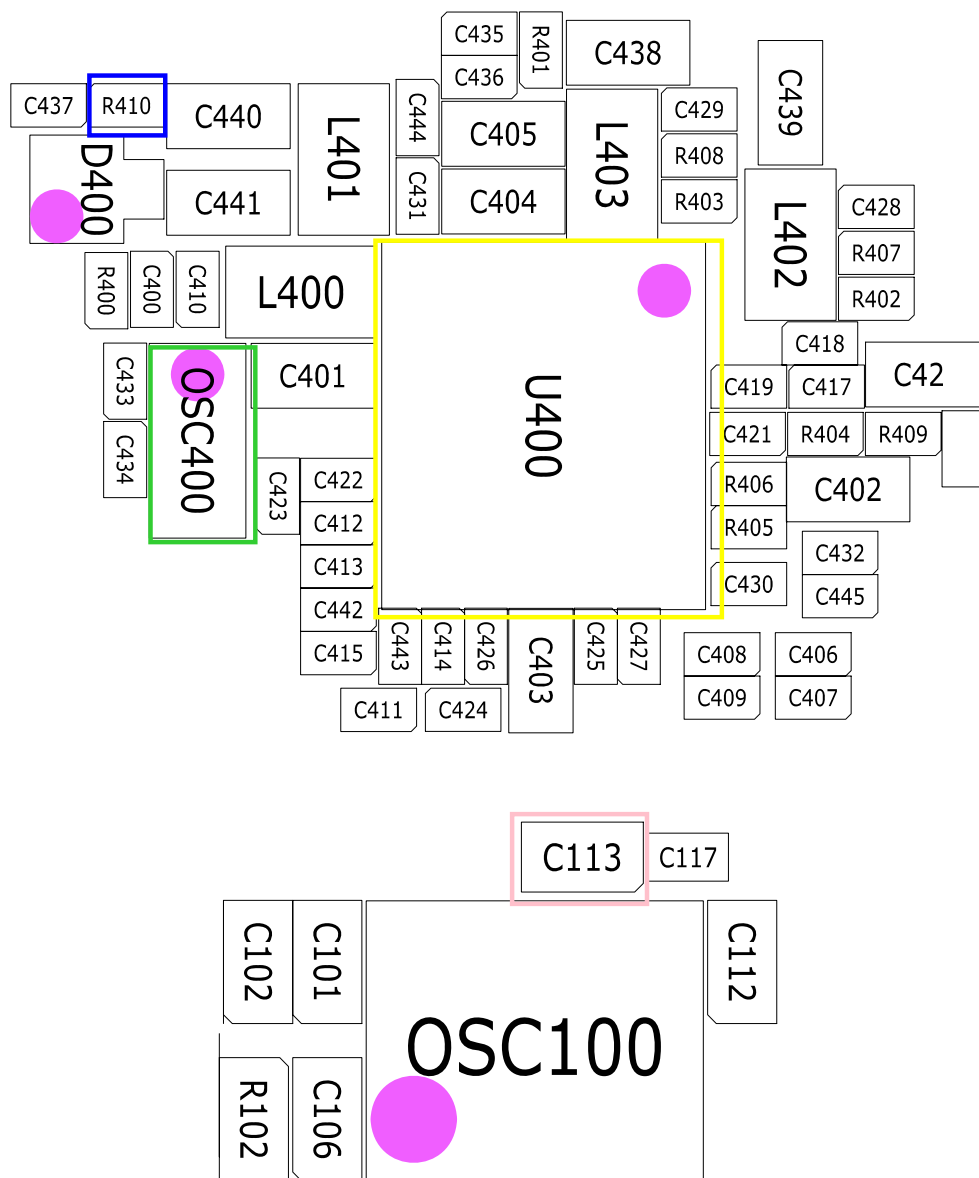
8-3-1. Power On



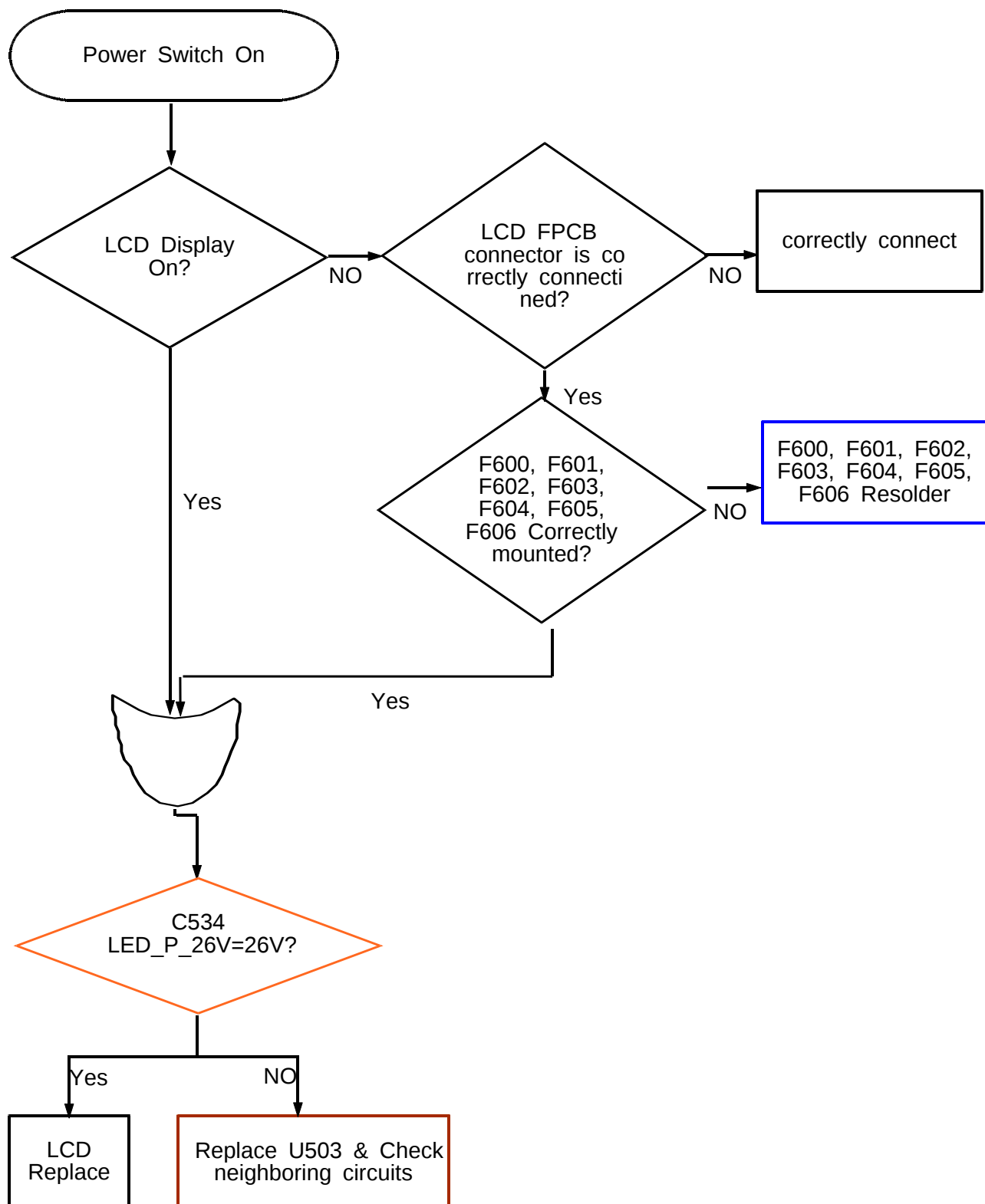


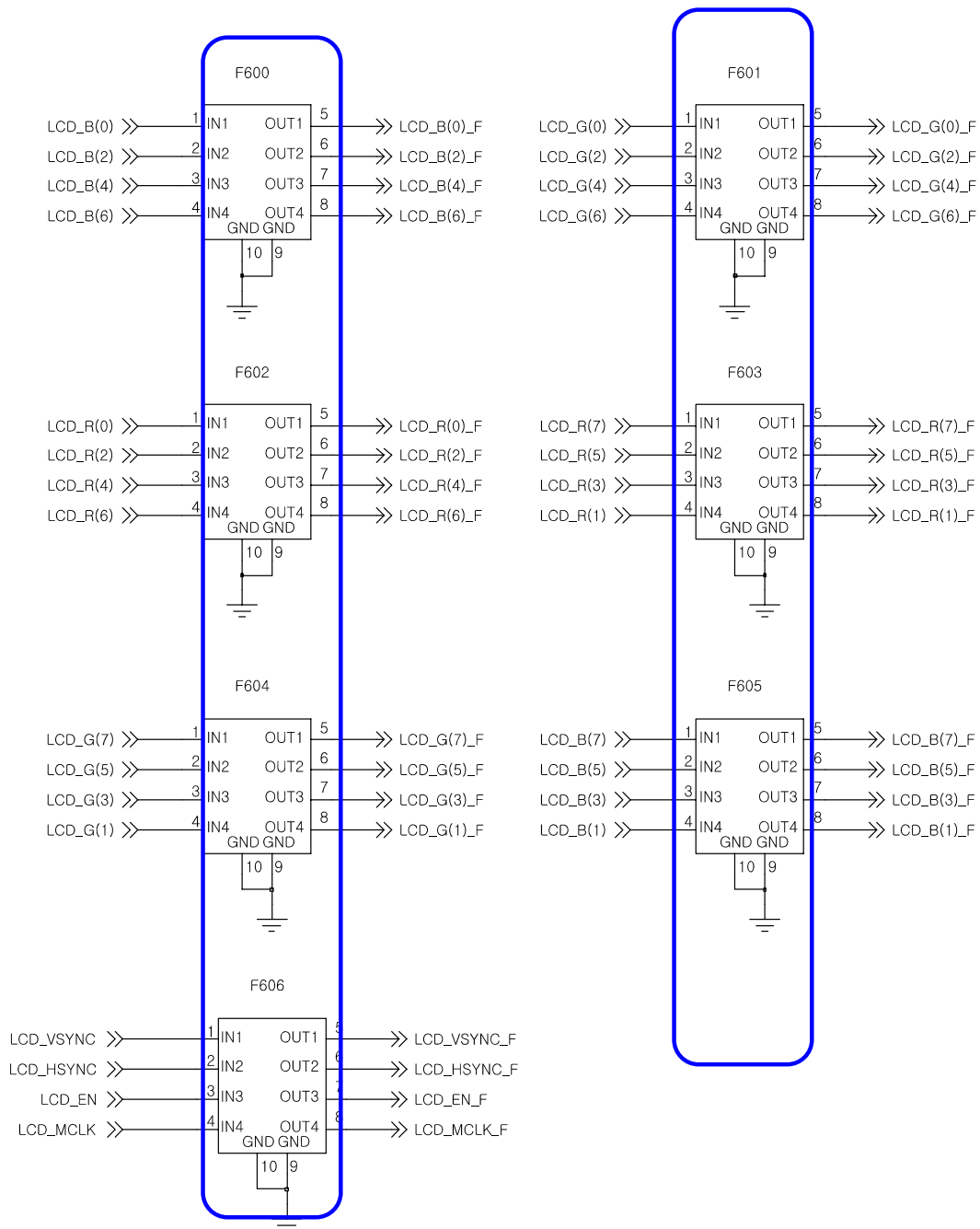
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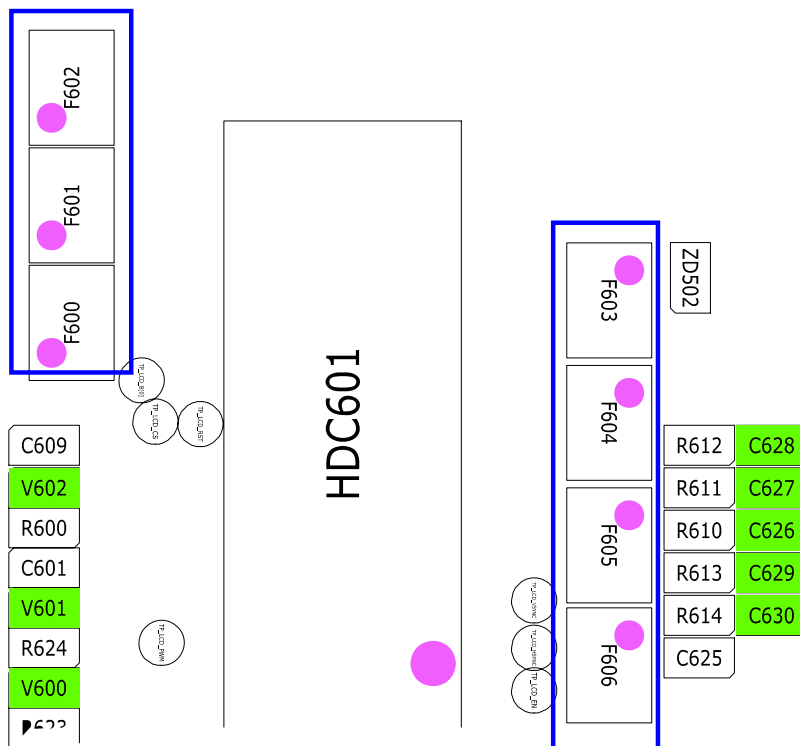
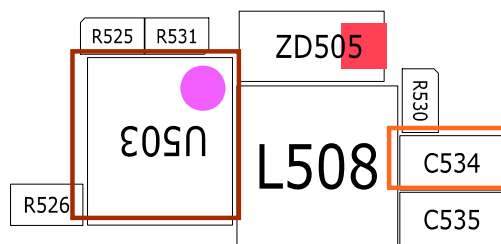
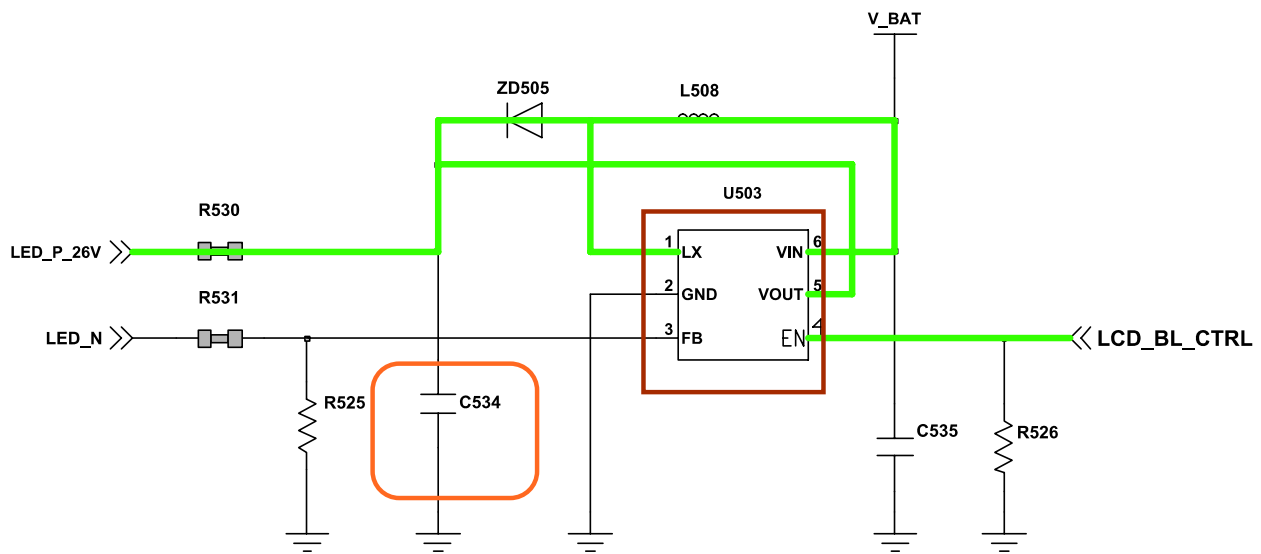




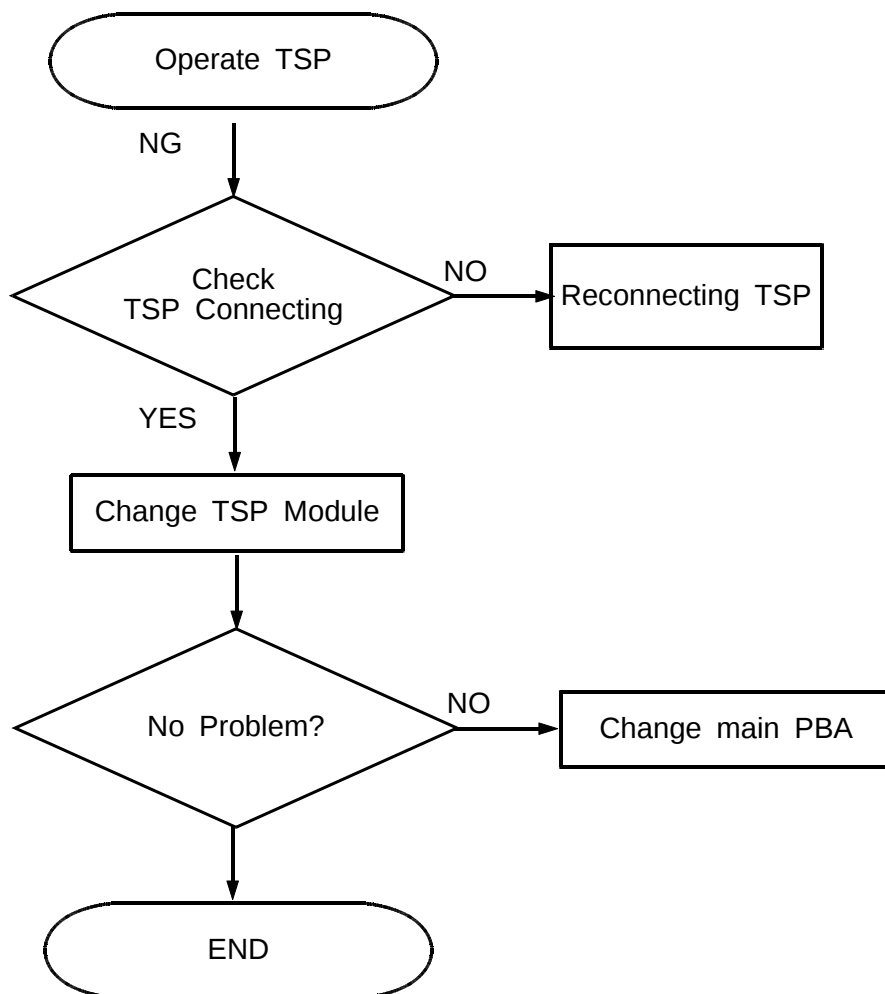
8-3-2. LCD Working



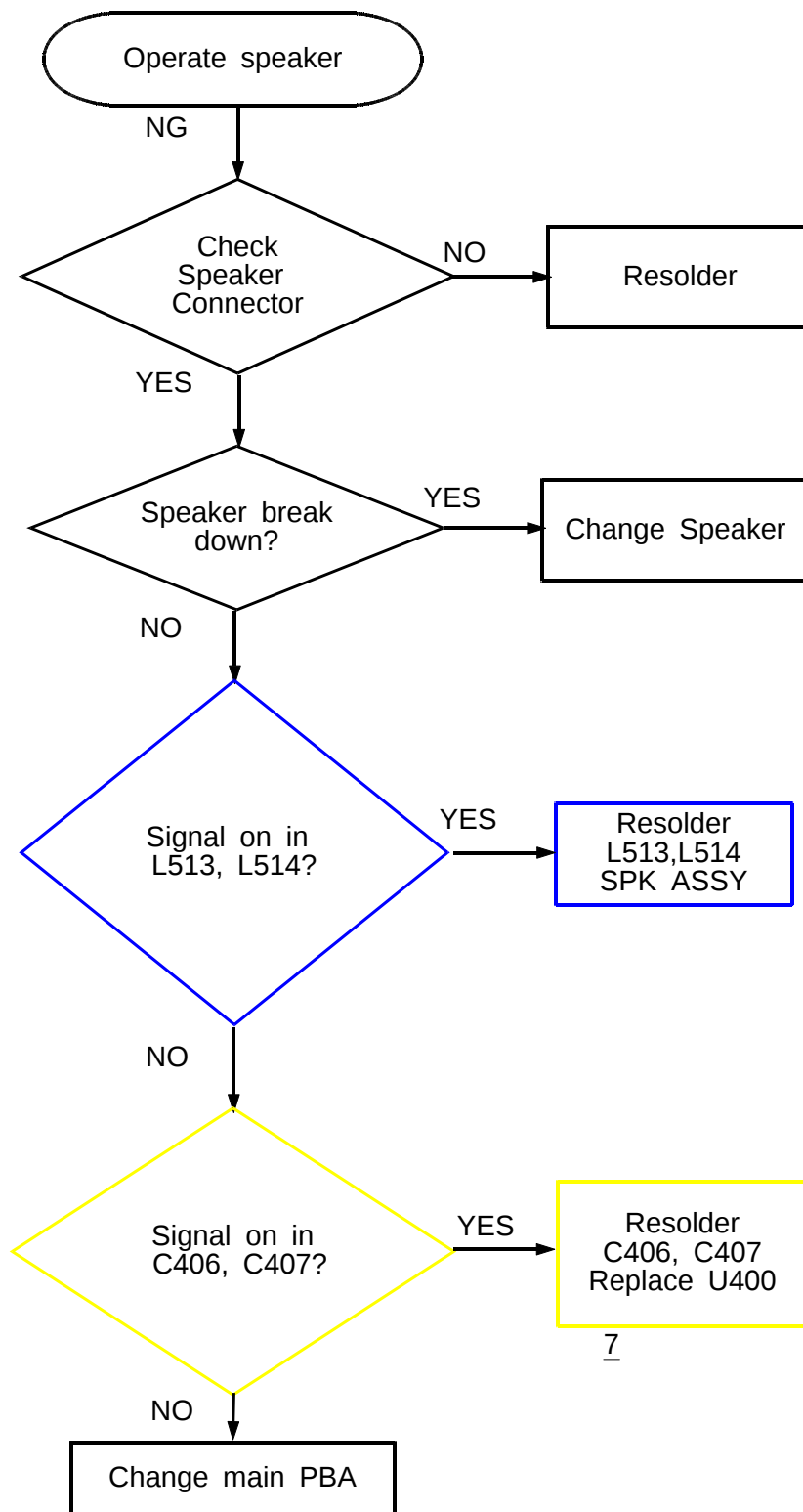


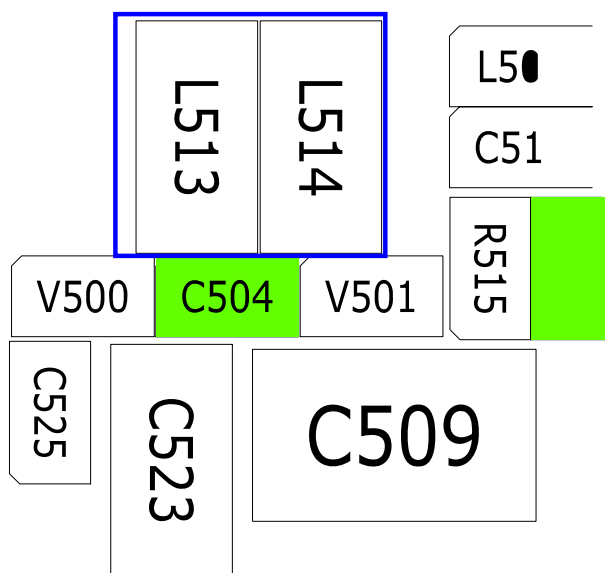
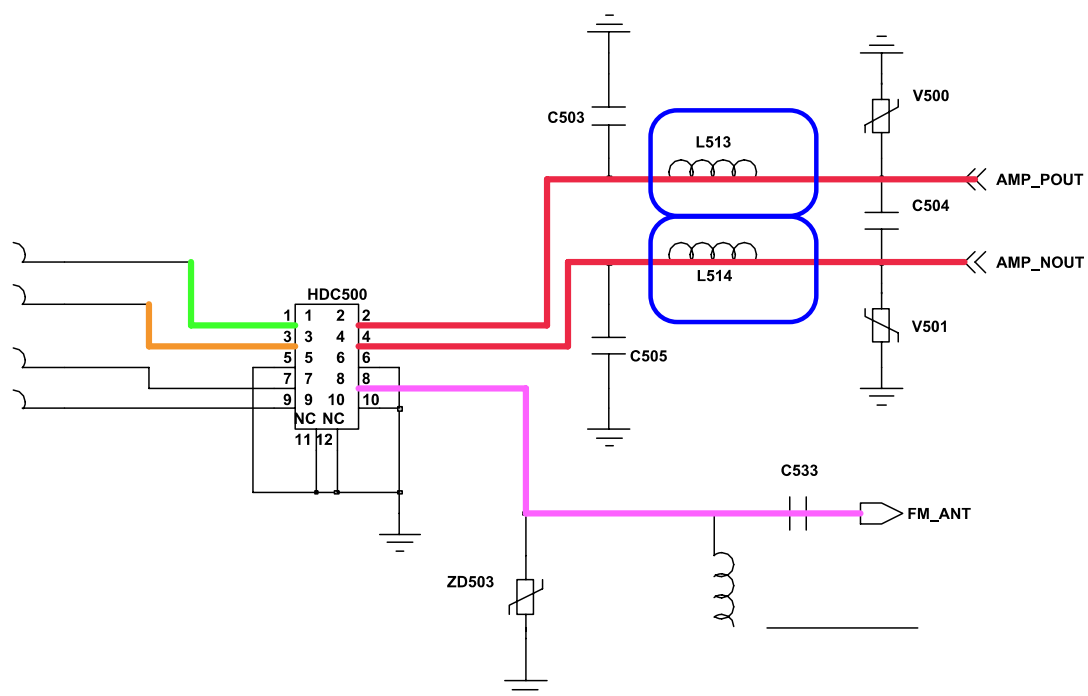


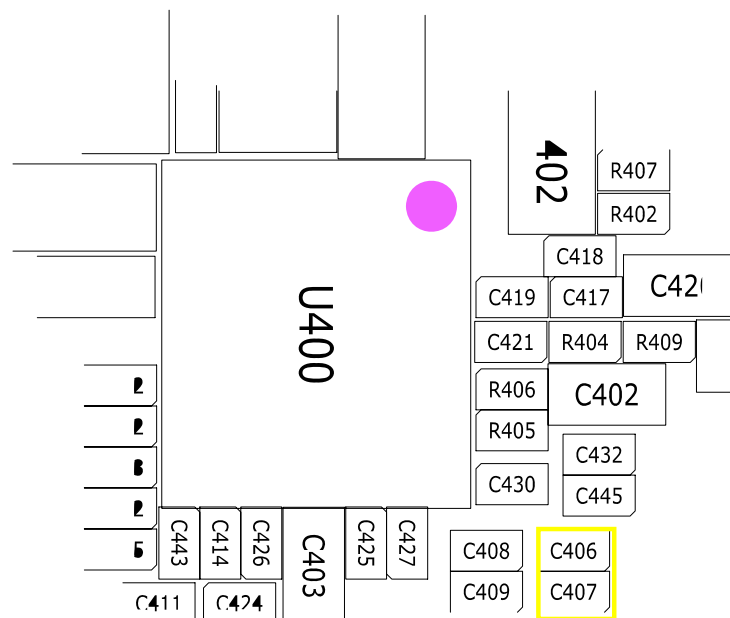
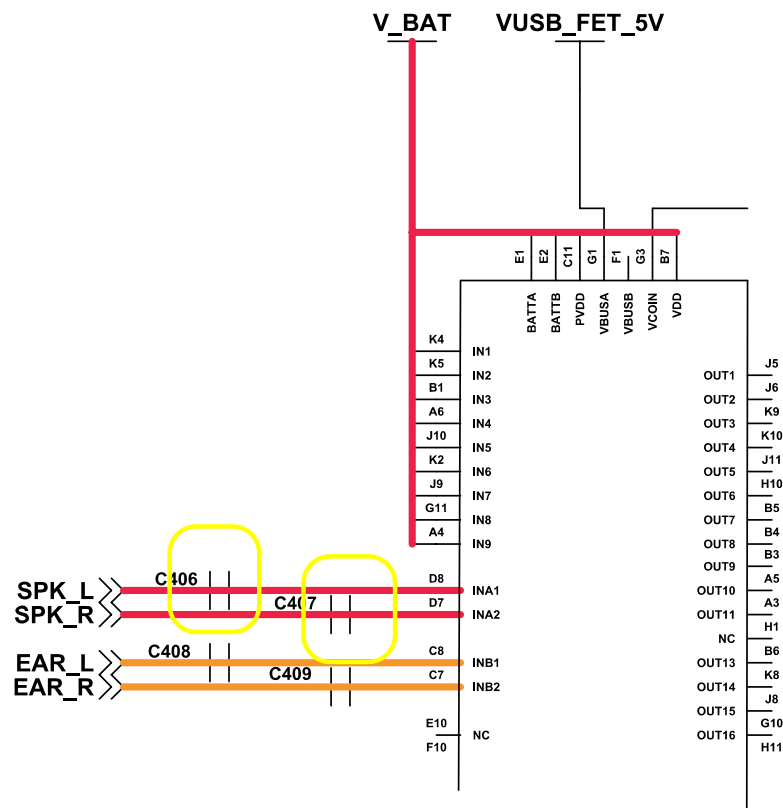
8-3-3. TSP



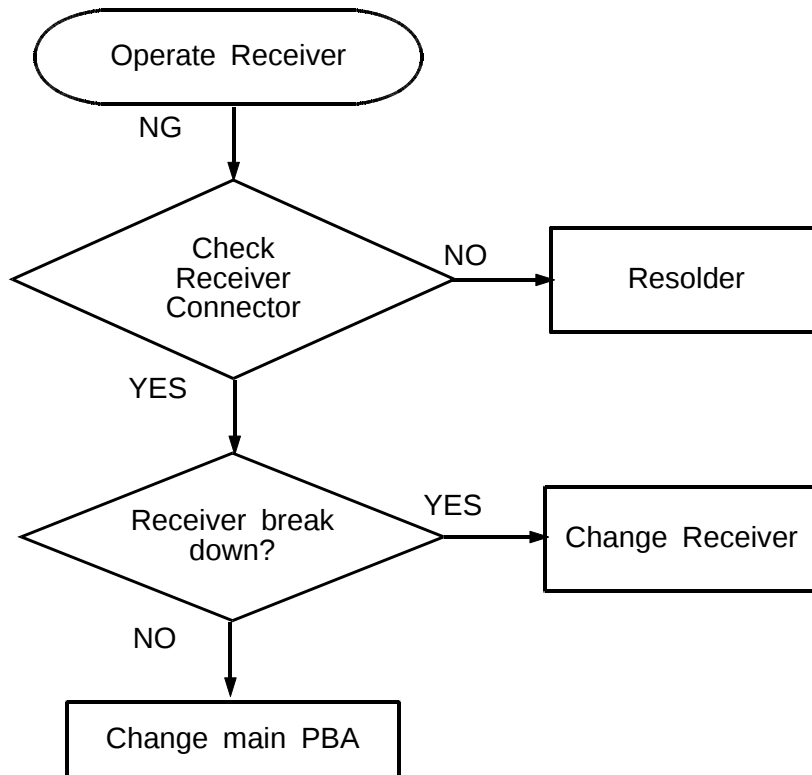
8-3-3. Audio Working

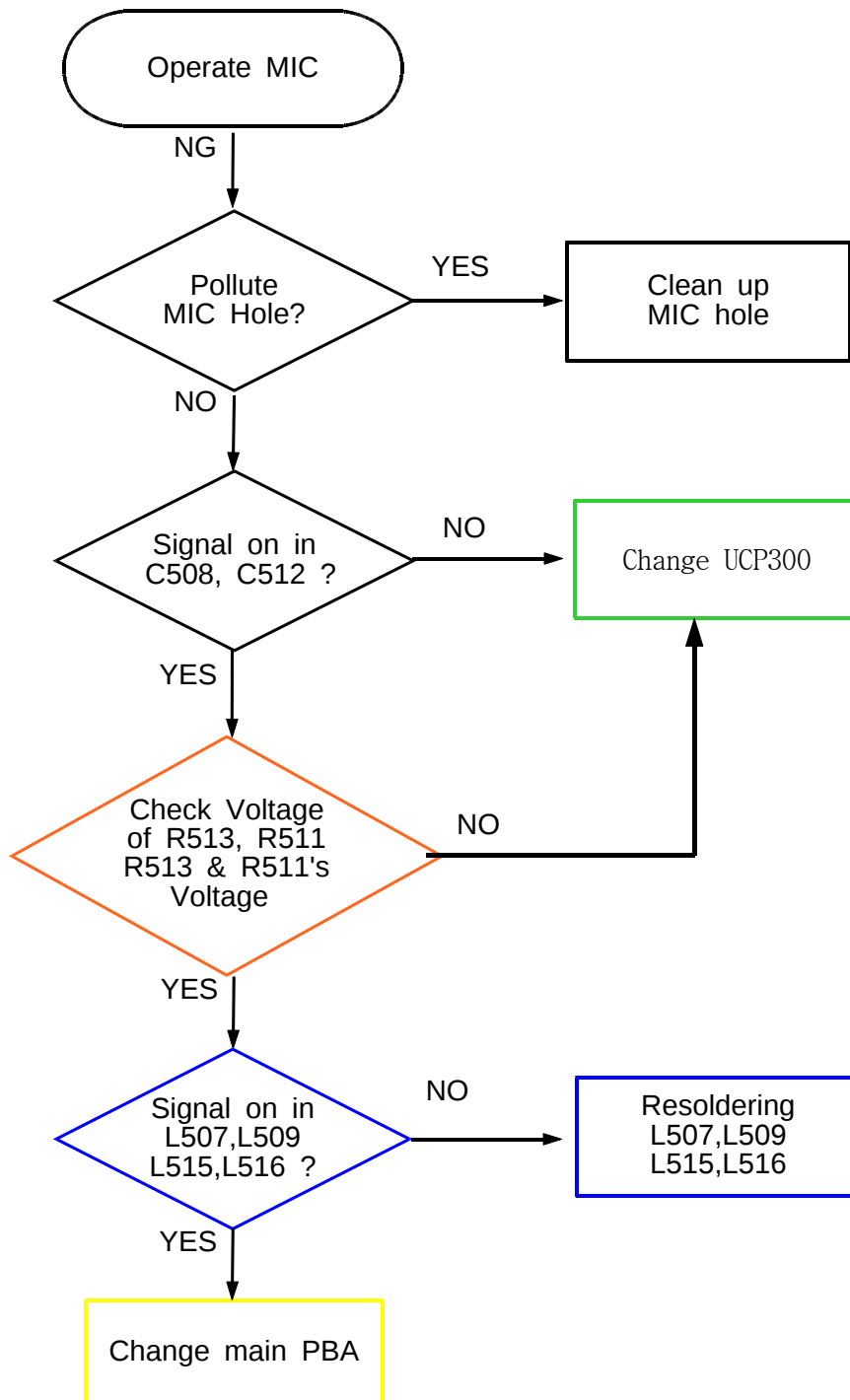
● Speaker Working

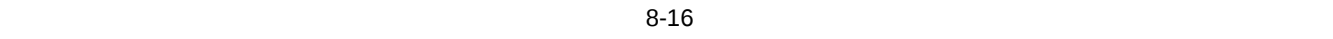




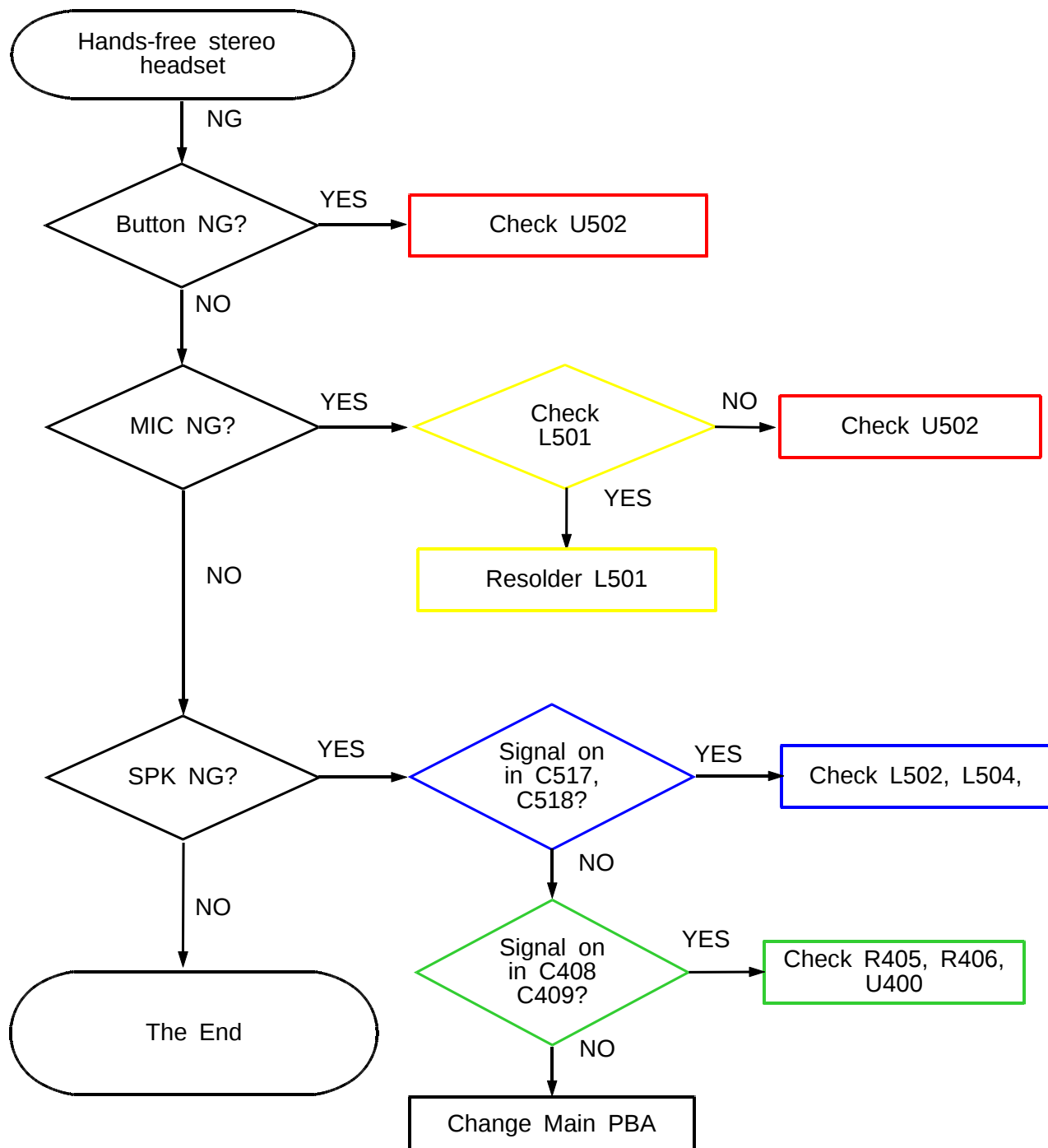
- Receiver Working

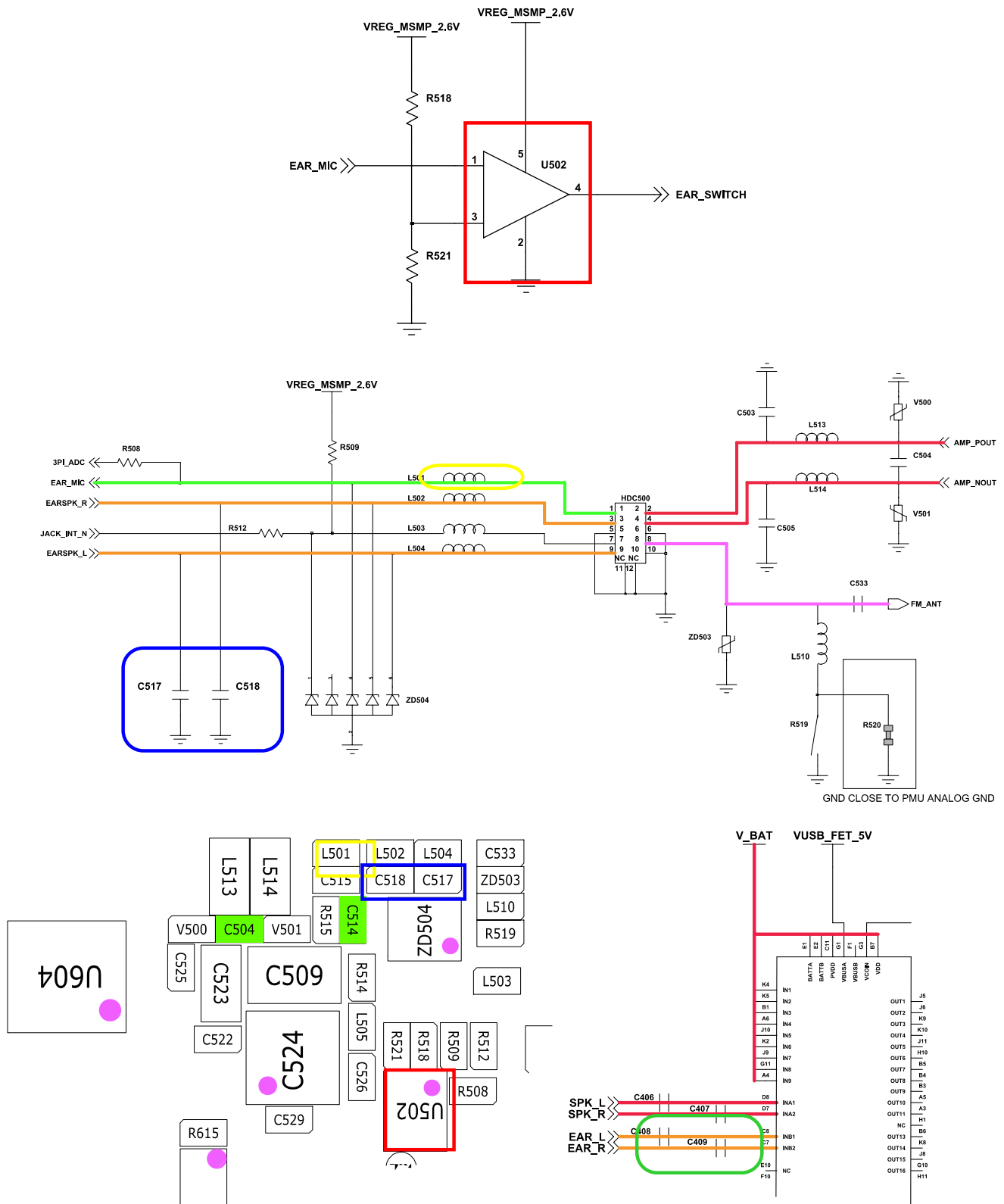


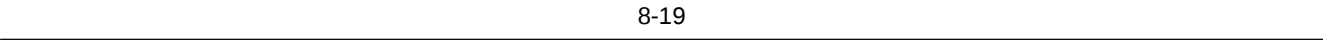
● MIC Working



■ Stereo Headset Working

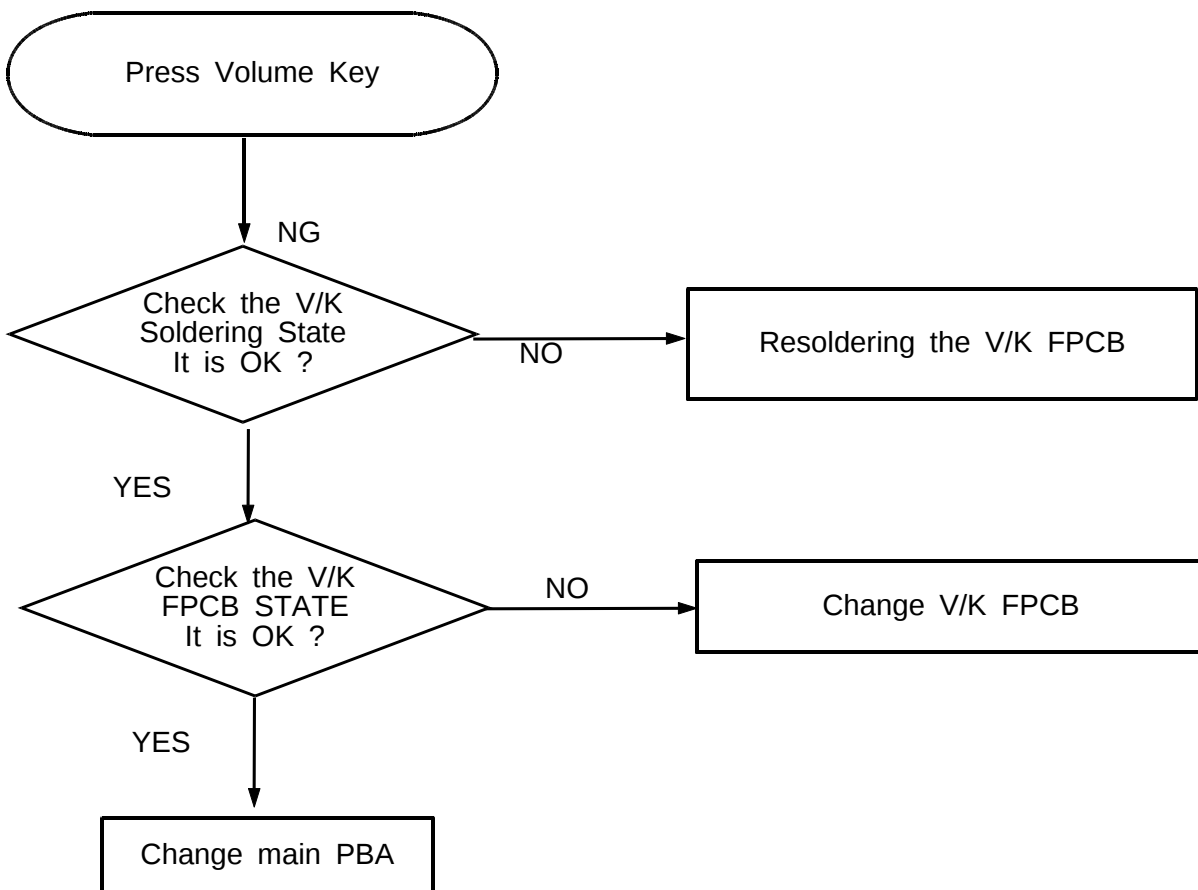




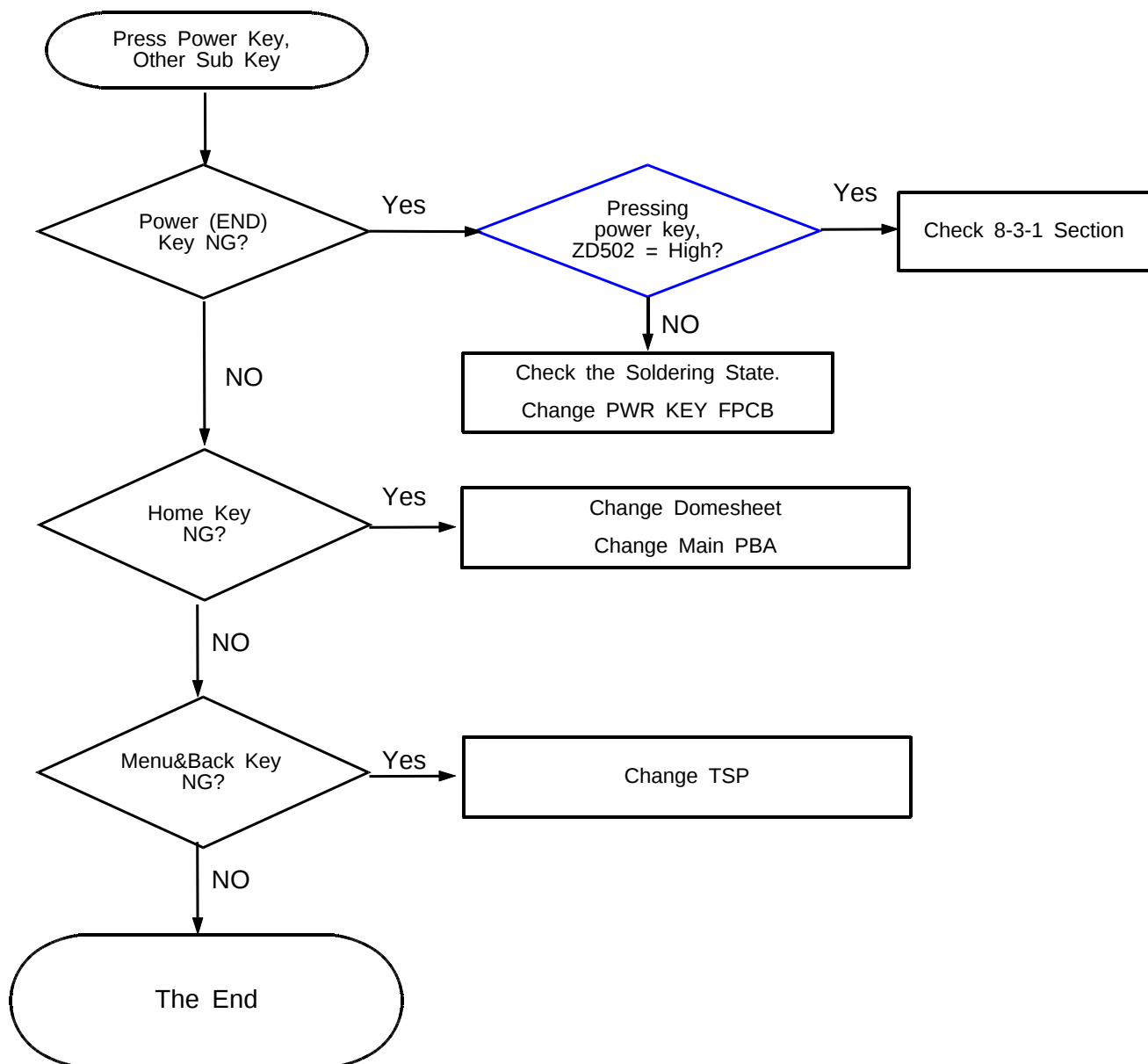


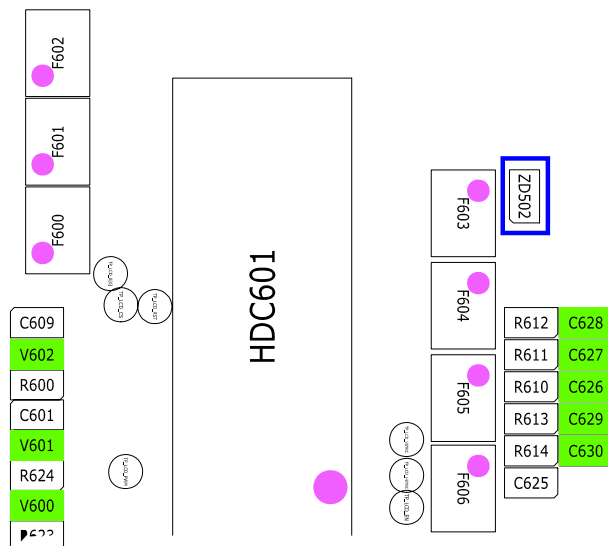
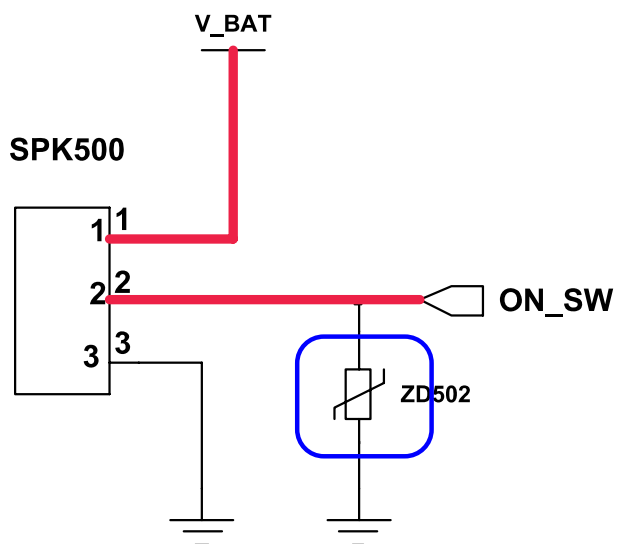
8-3-5. KEY Working

● Volume KEY

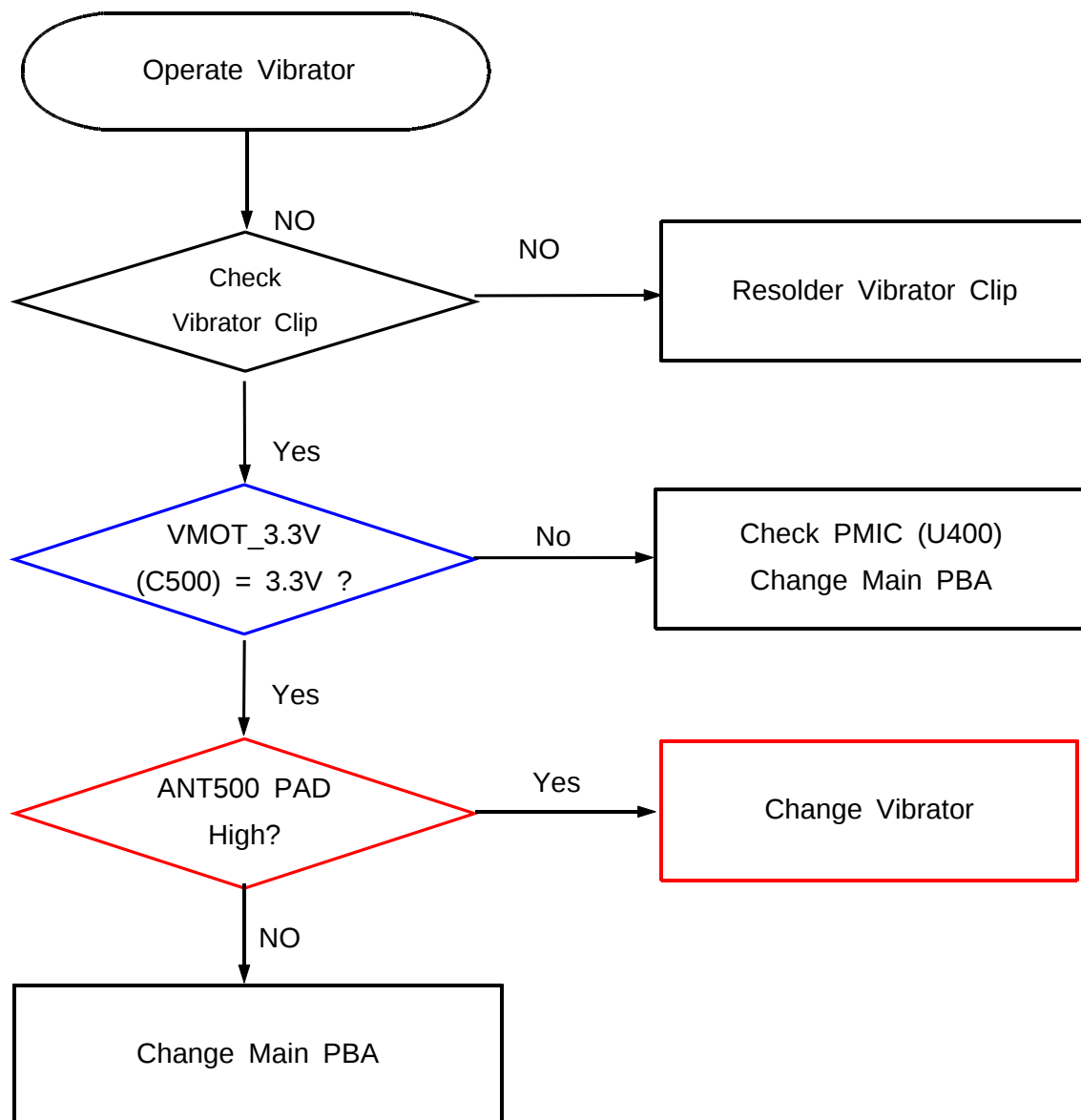


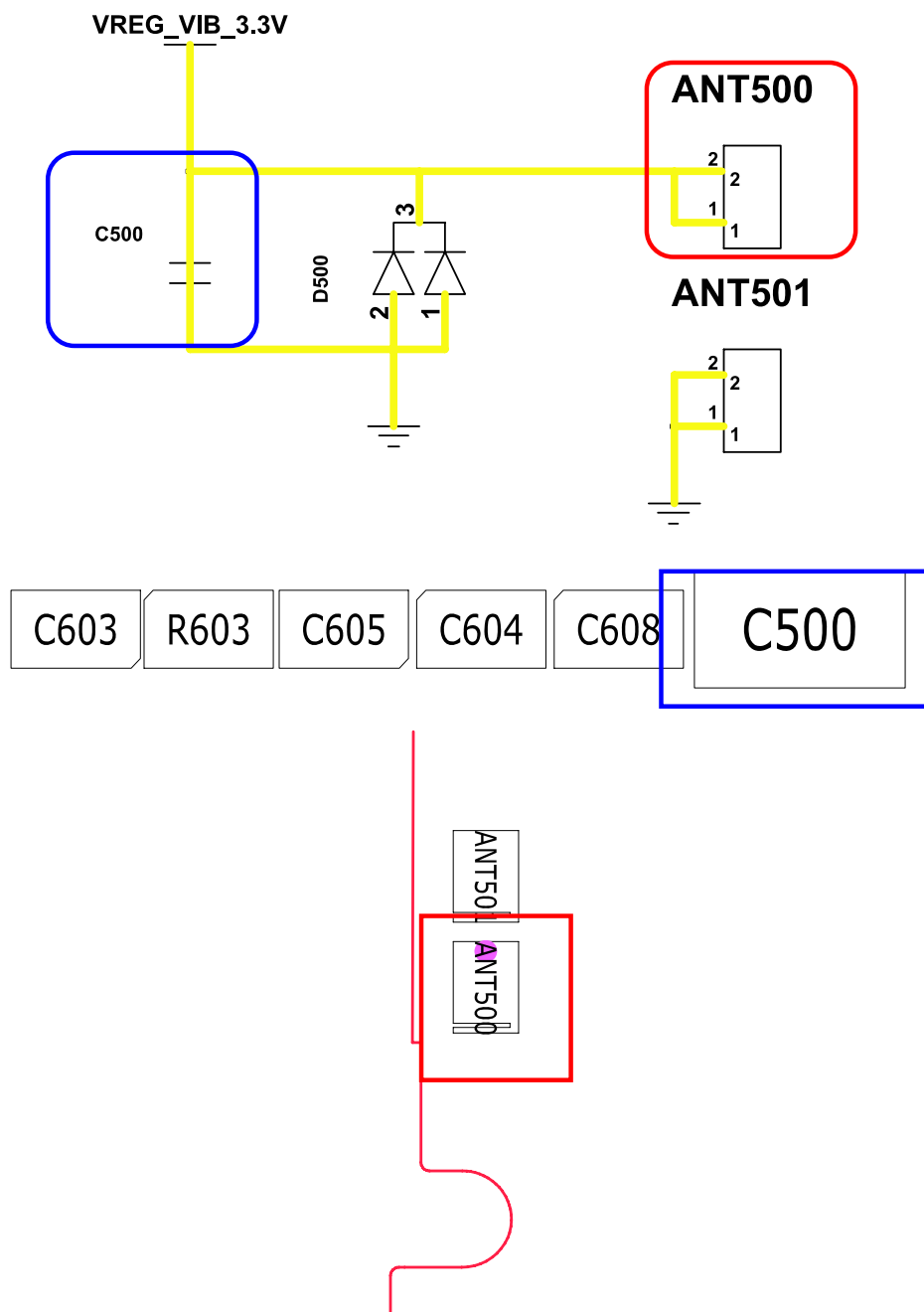
- Sub Key



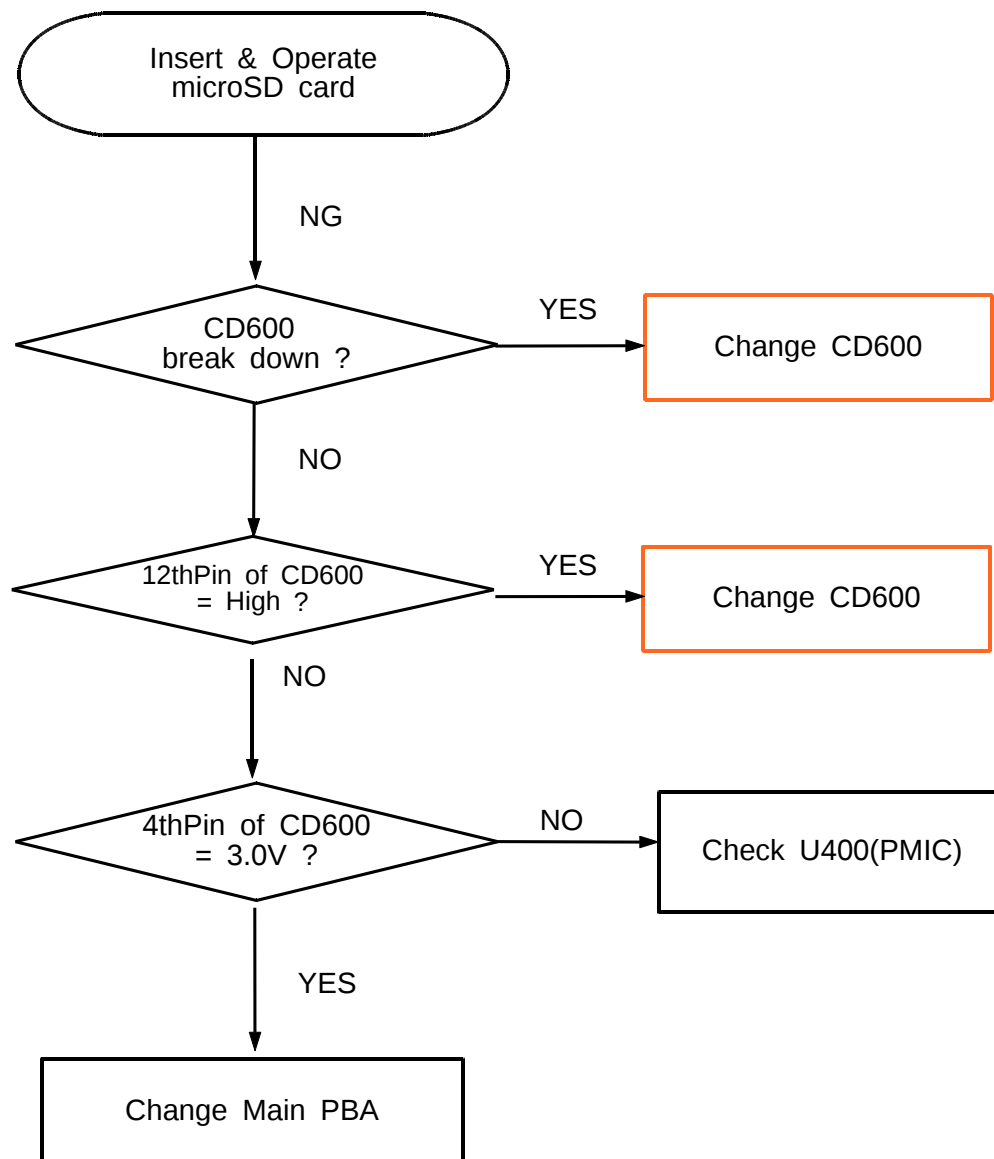


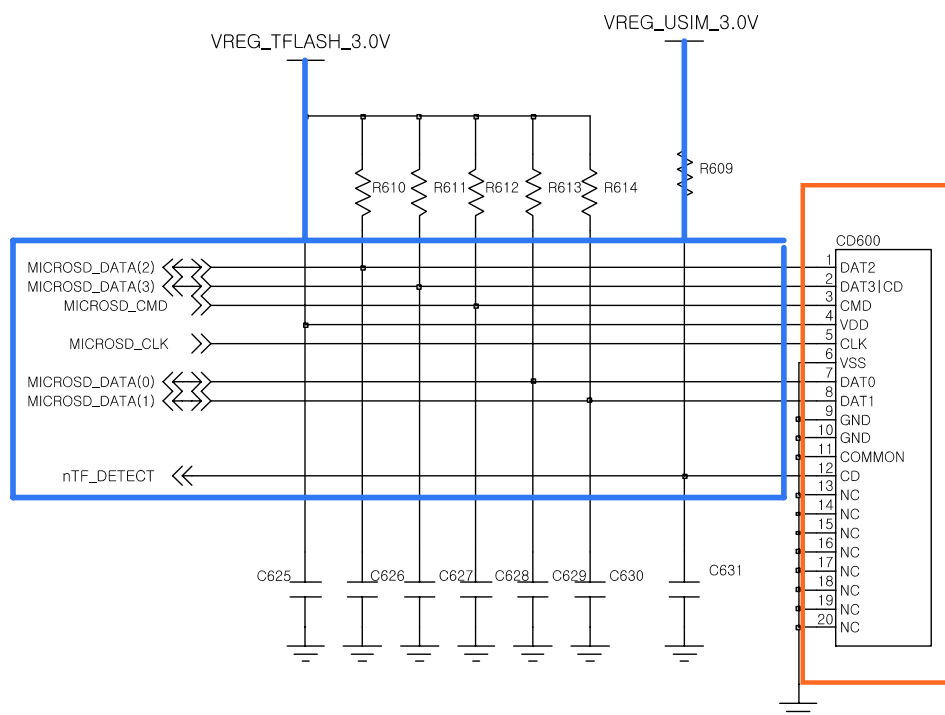
8-3-6. Vibrator Working



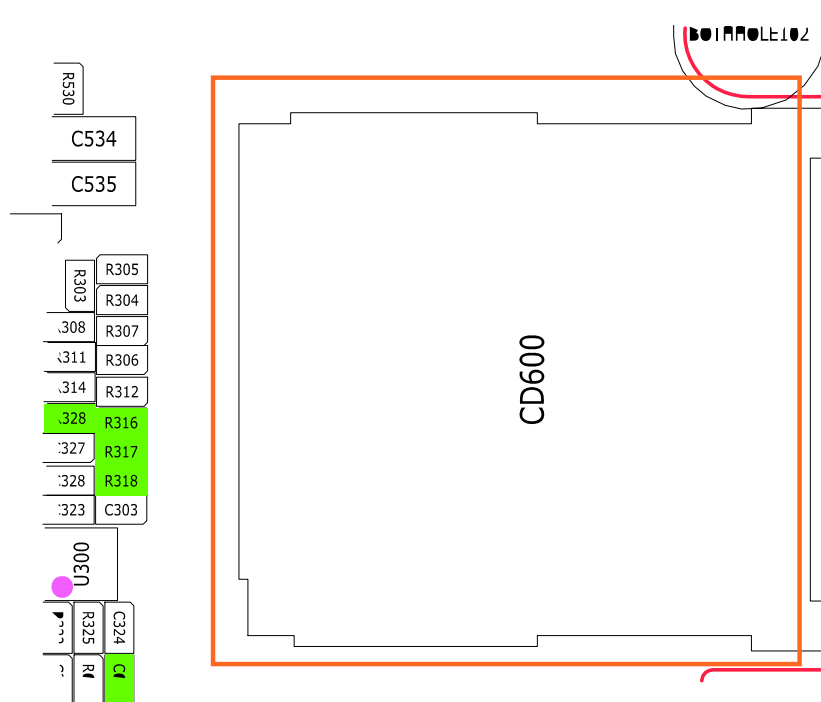


8-3-7. T-Flash Card Working

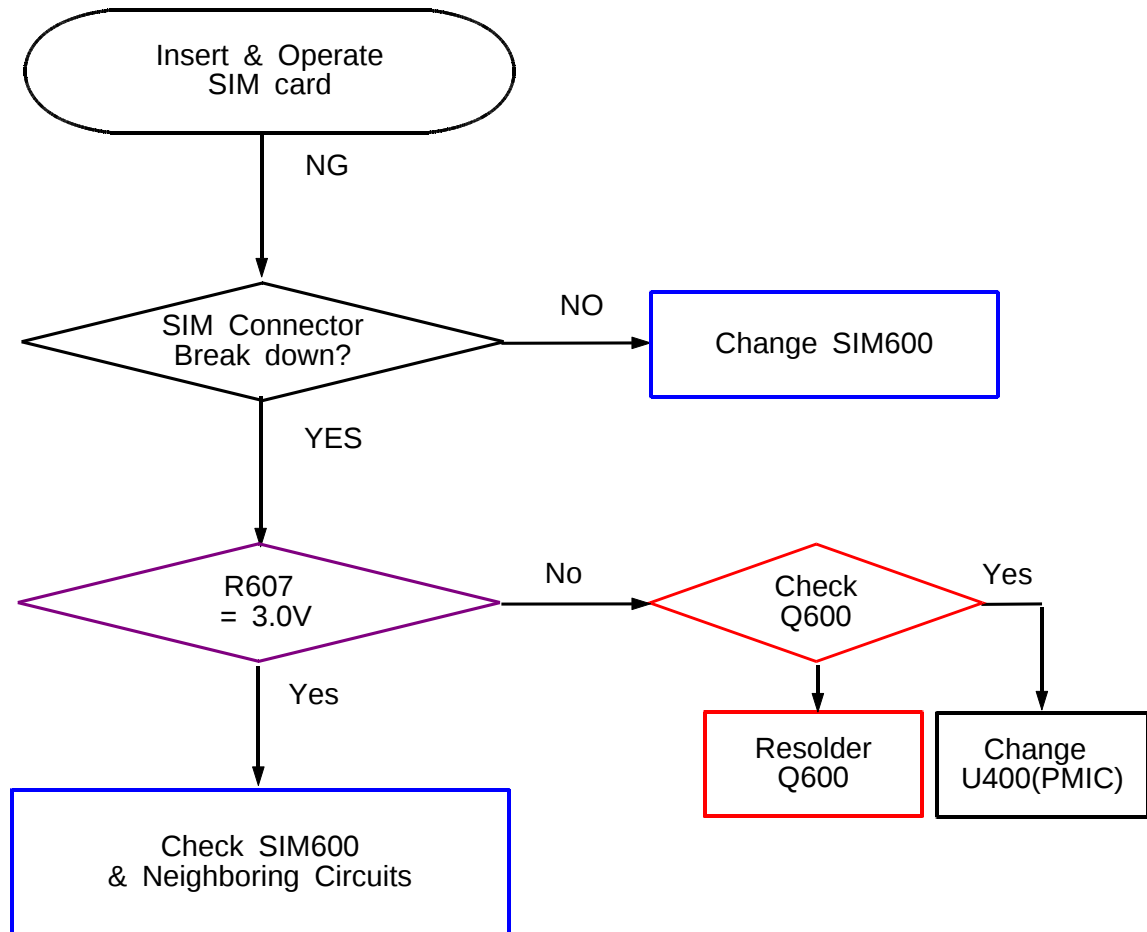


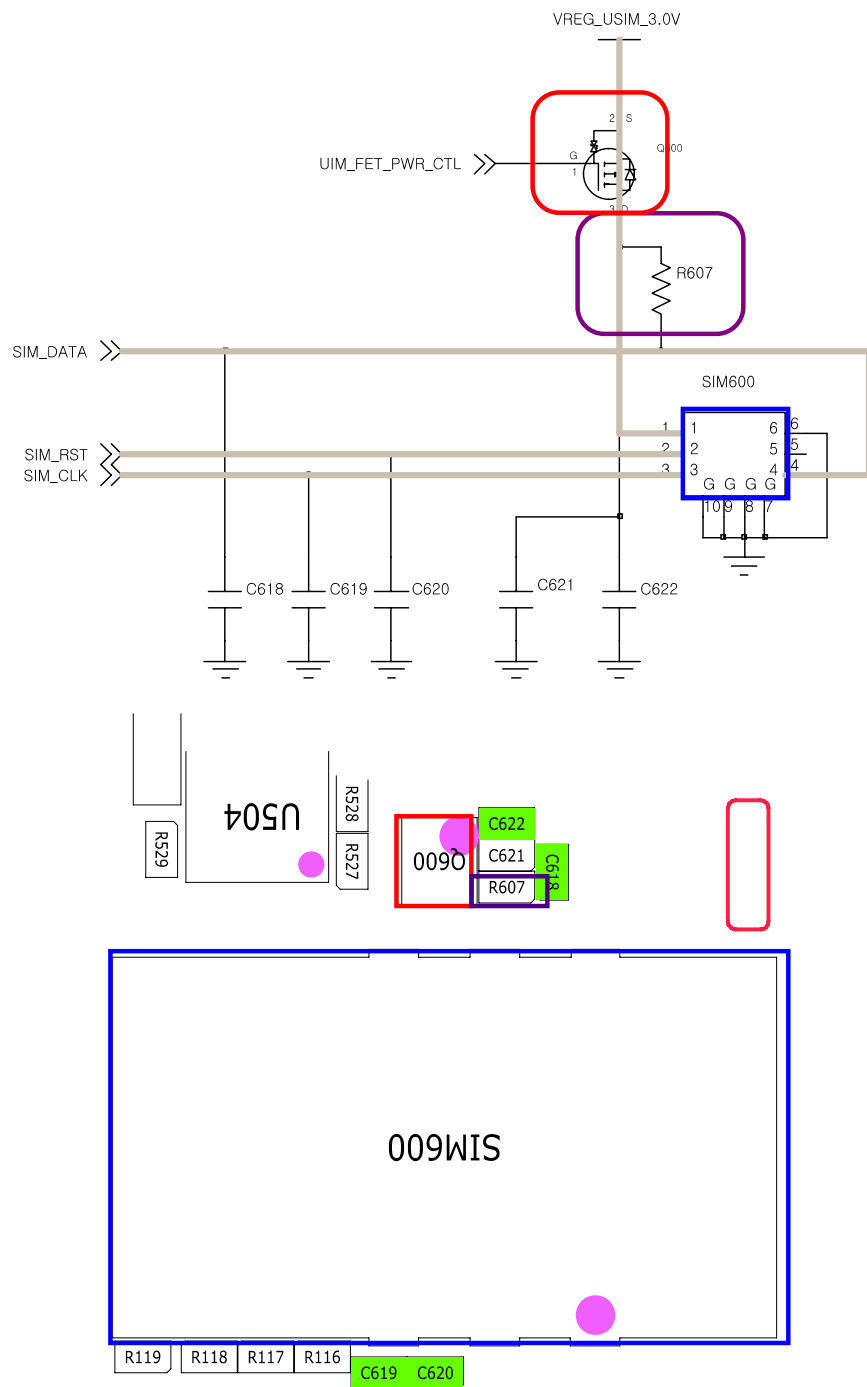


T-FLASH

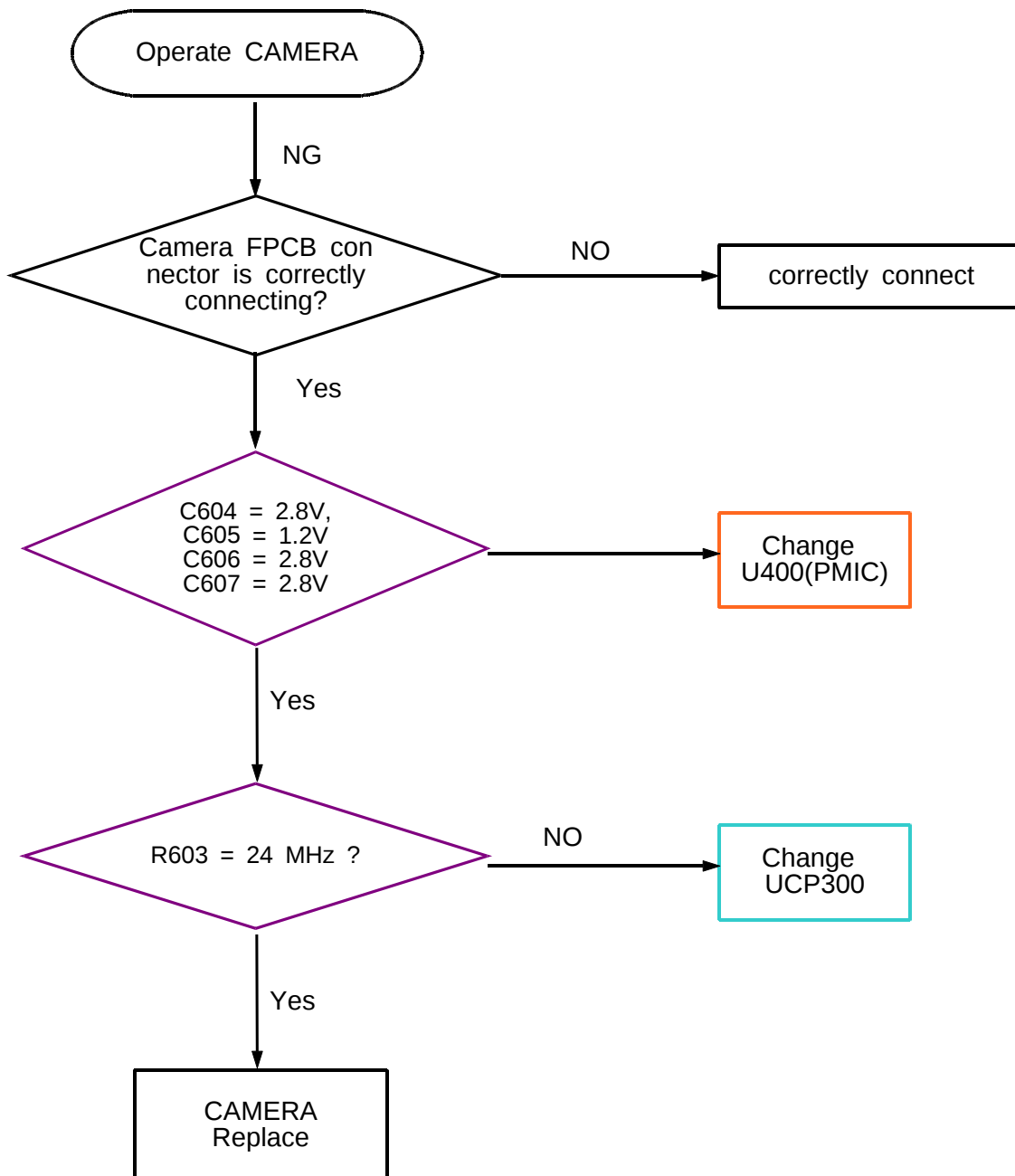


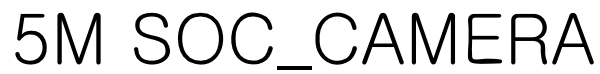
8-3-8. SIM Card Working

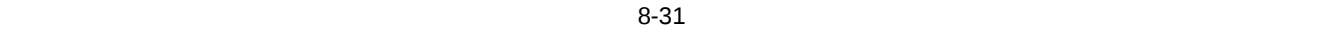




8-3-9 CAMERA Working



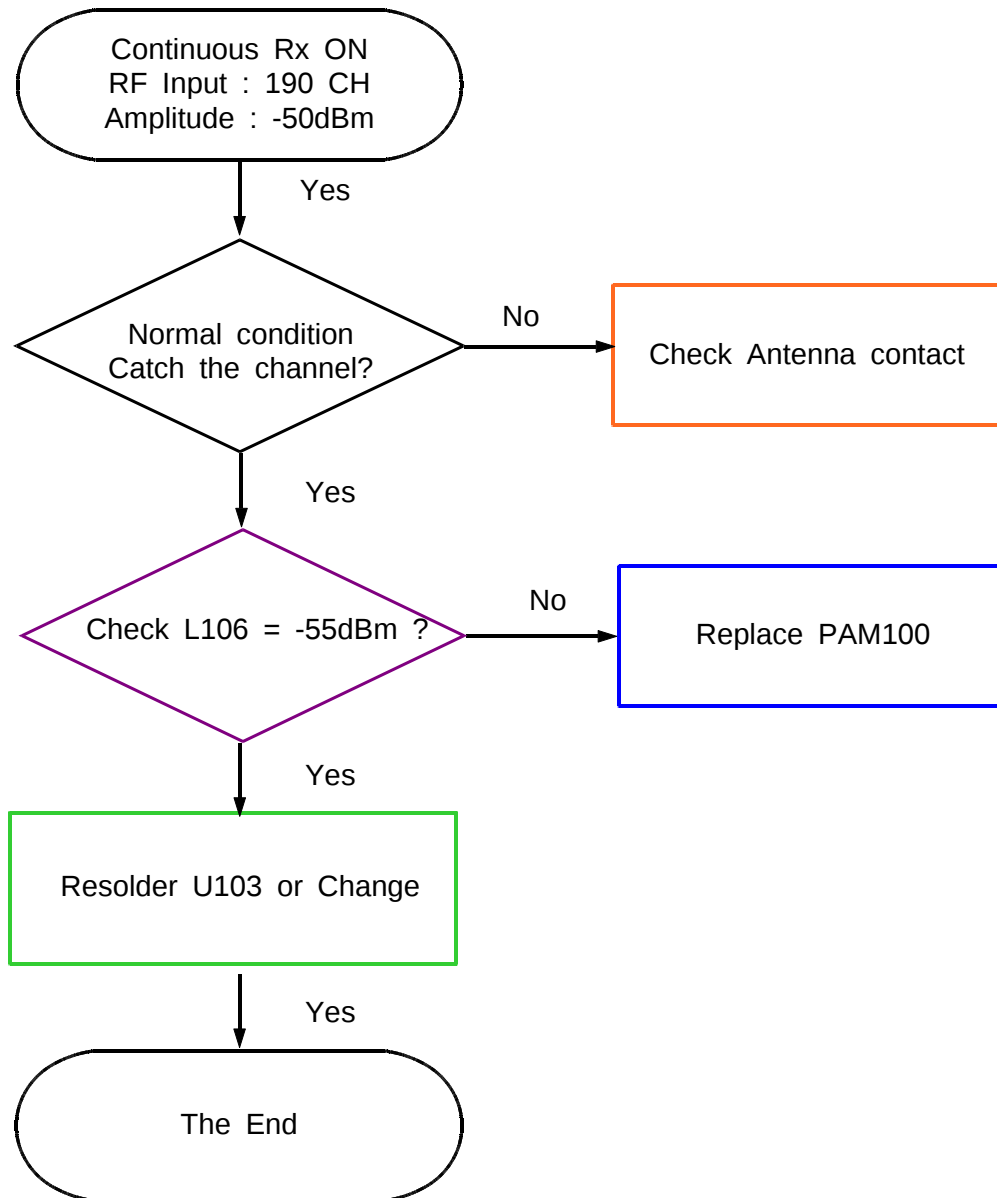




8-4-1. GSM850 RX

**If you check the tx chain,

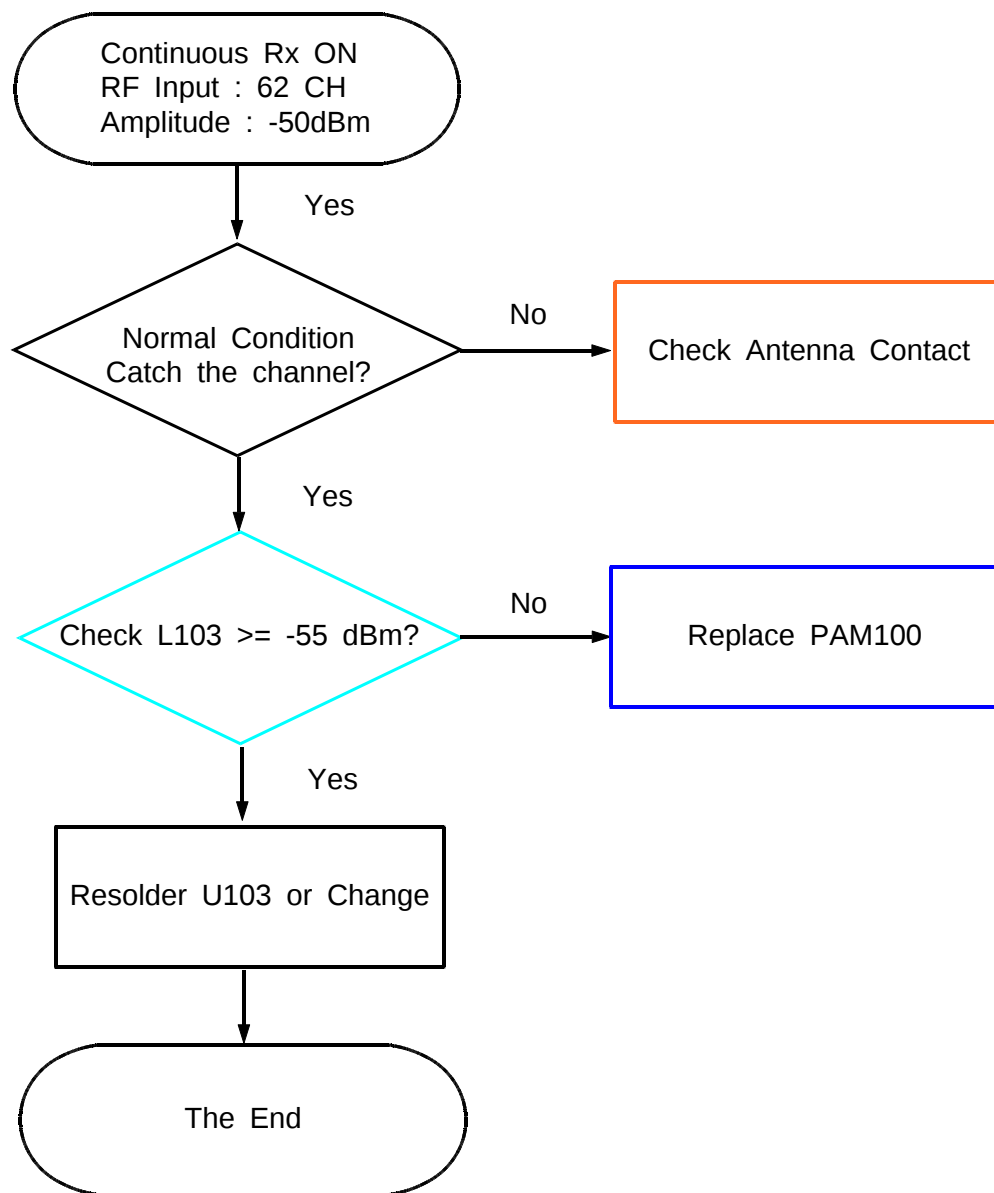
Check the not only RF Device but also resistor, inductor and capacitor.



8-4-2. GSM900 RX

**If you check the tx chain,

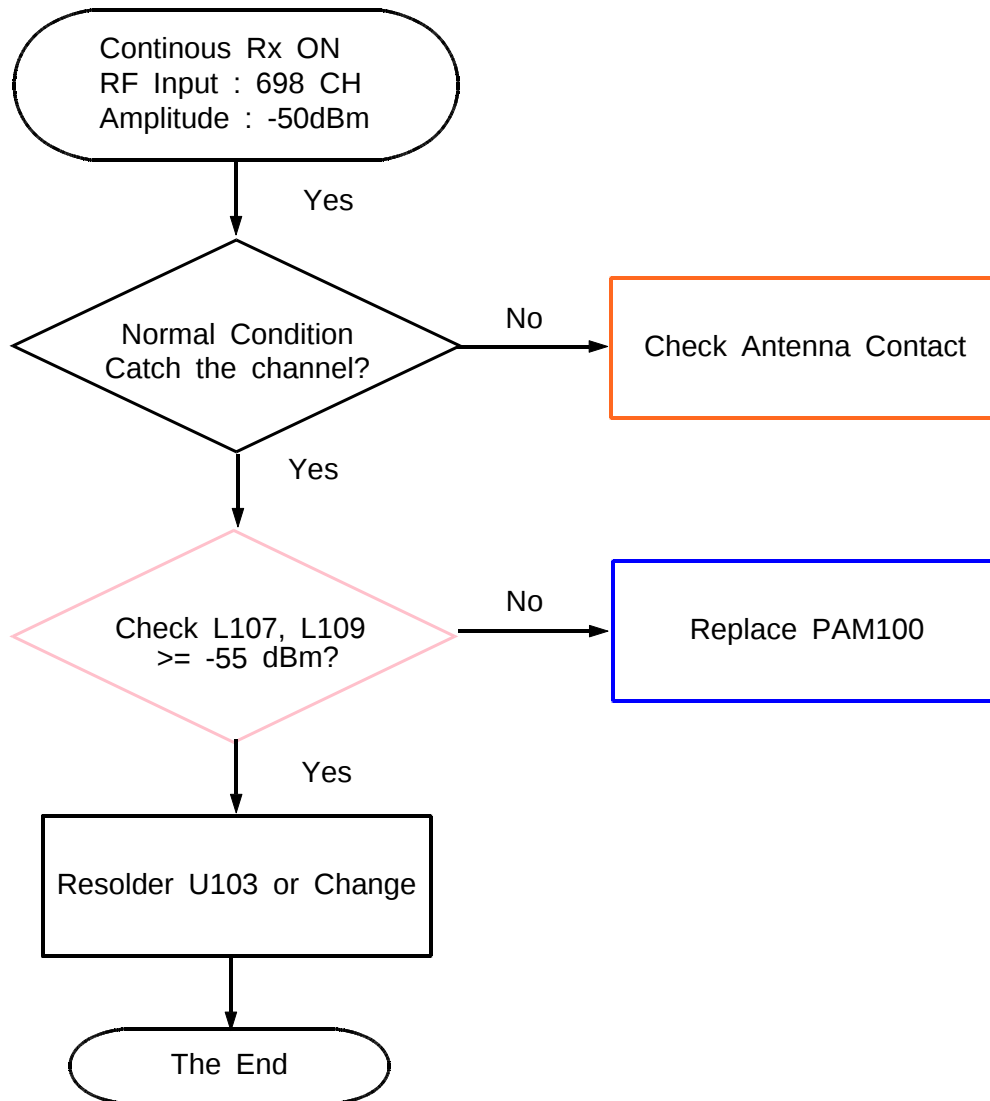
Check the not only RF Device but also resistor, inductor and capacitor.

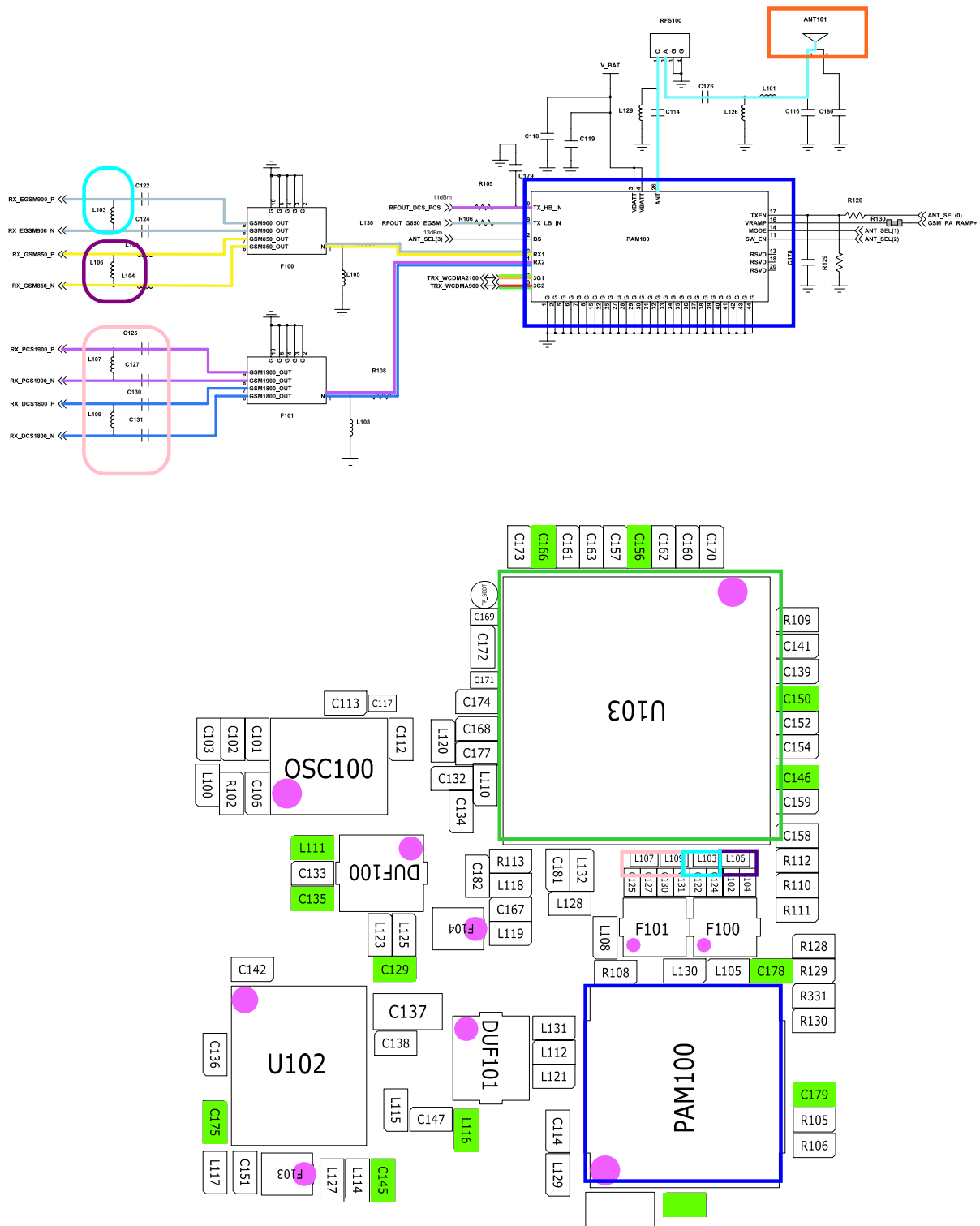


8-4-3. DCS/PCS RX

**If you check the tx chain,

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

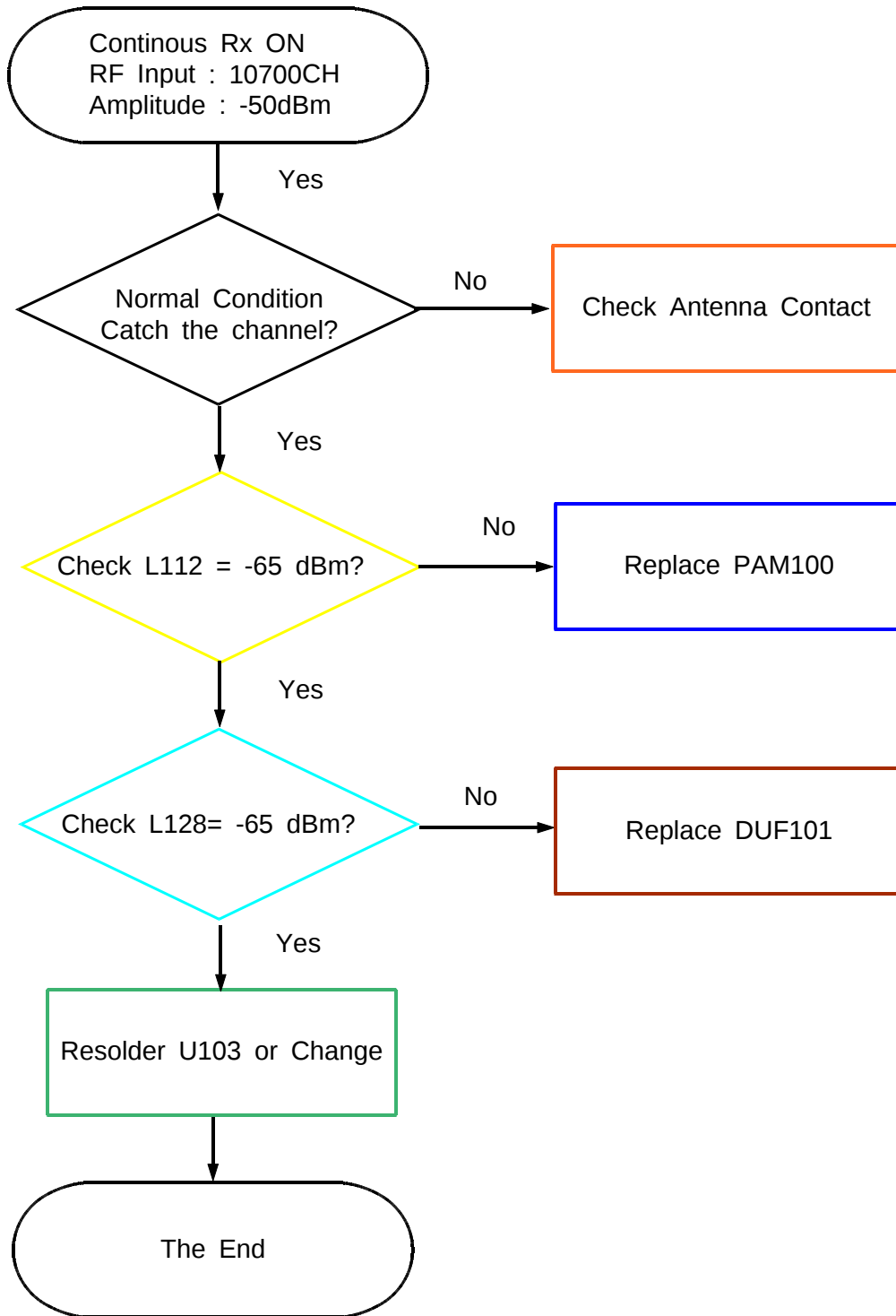




8-4-4. WCDMA Band1 RX (S5830B only)

**If you check the tx chain,

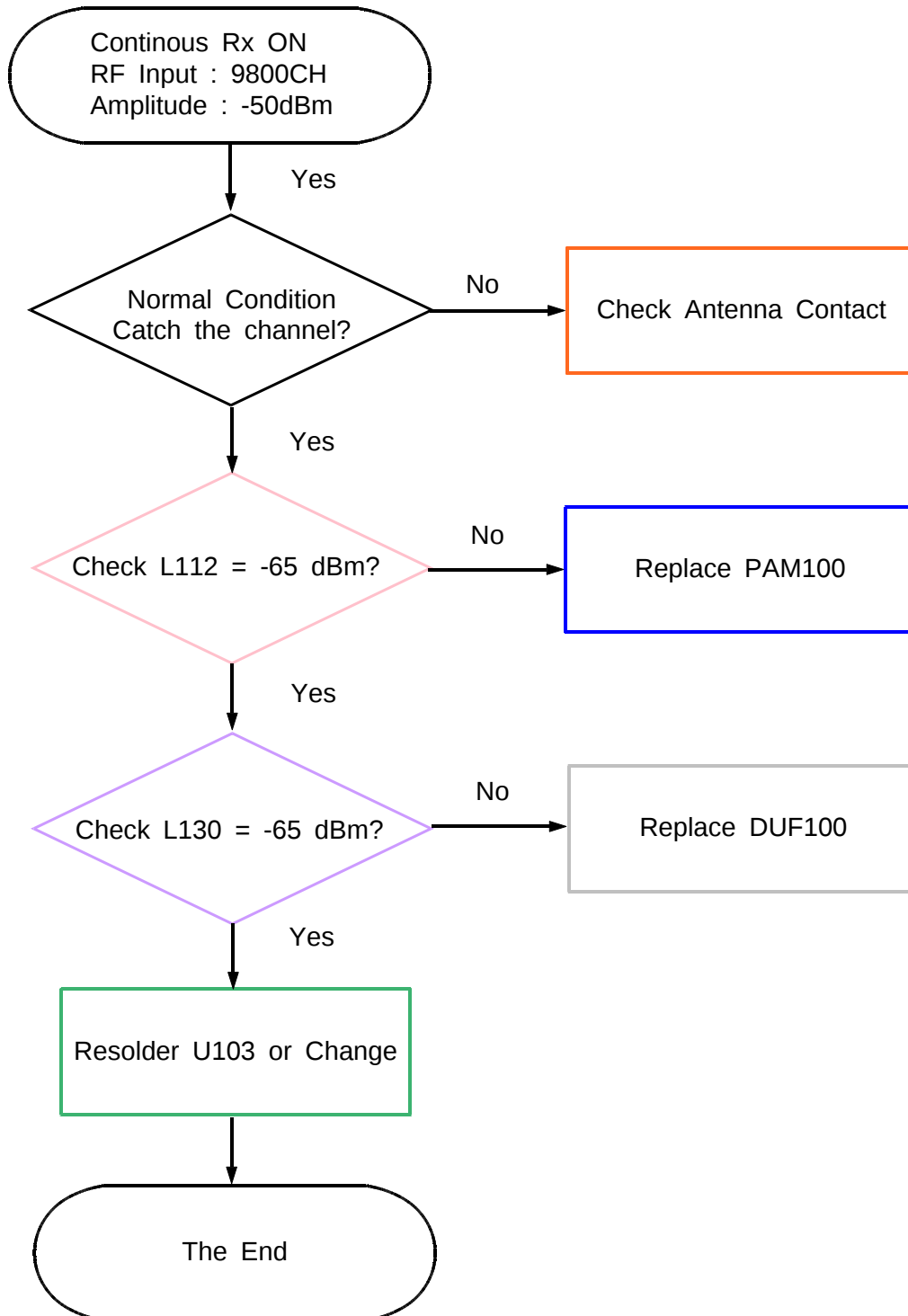
Check the not only RF Device but also resistor, inductor and capacitor.



8-4-5. WCDMA Band2 RX (S5830L only)

**If you check the tx chain,

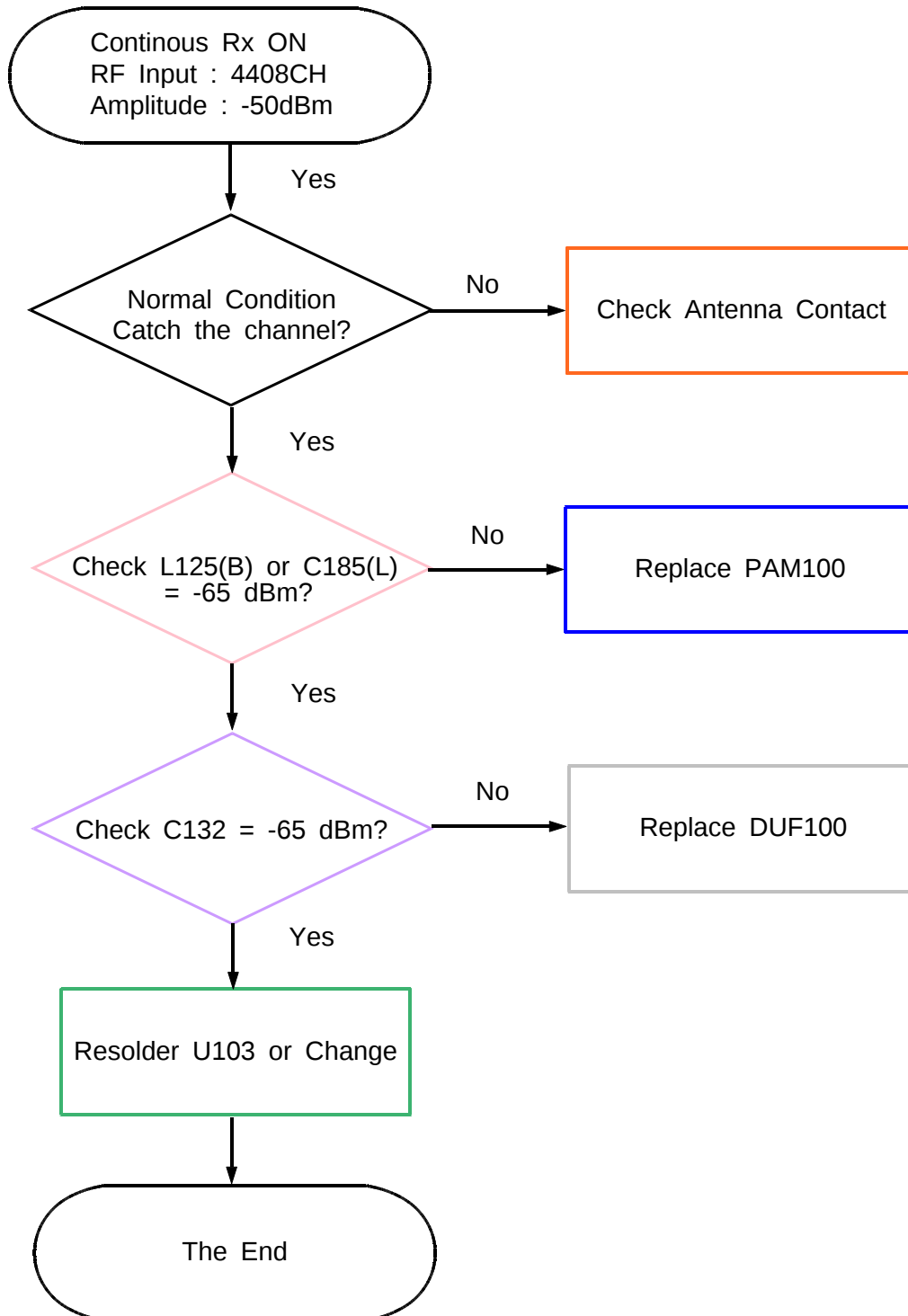
Check the not only RF Device but also resistor, inductor and capacitor.

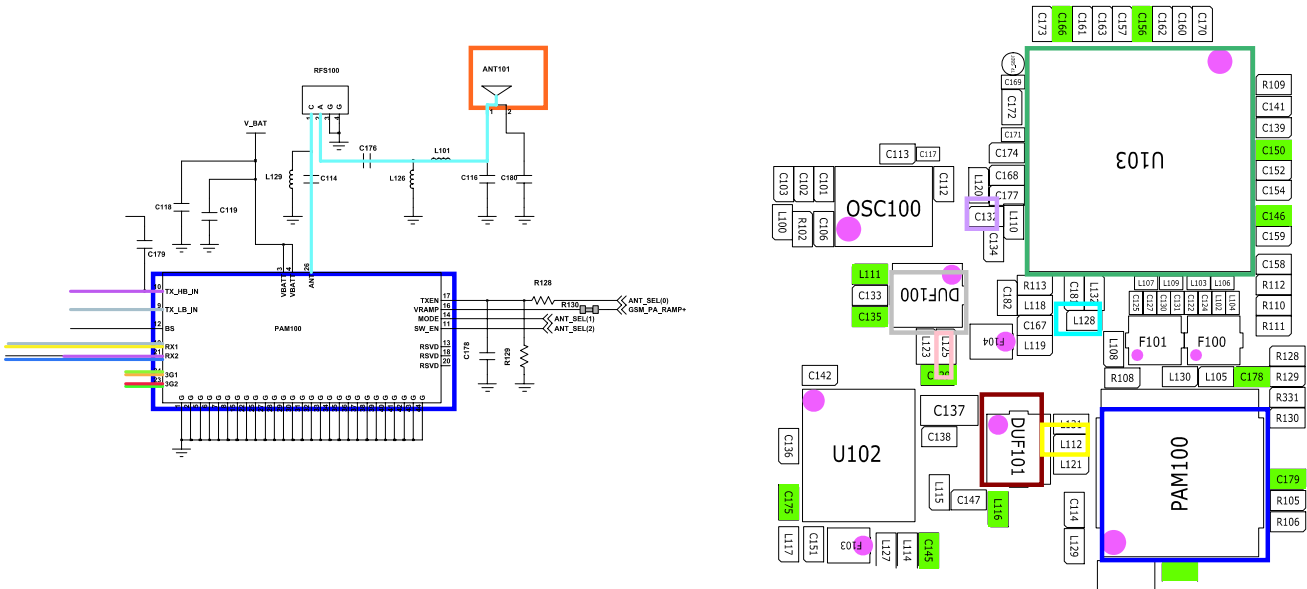


8-4-6. WCDMA Band5 RX

**If you check the tx chain,

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

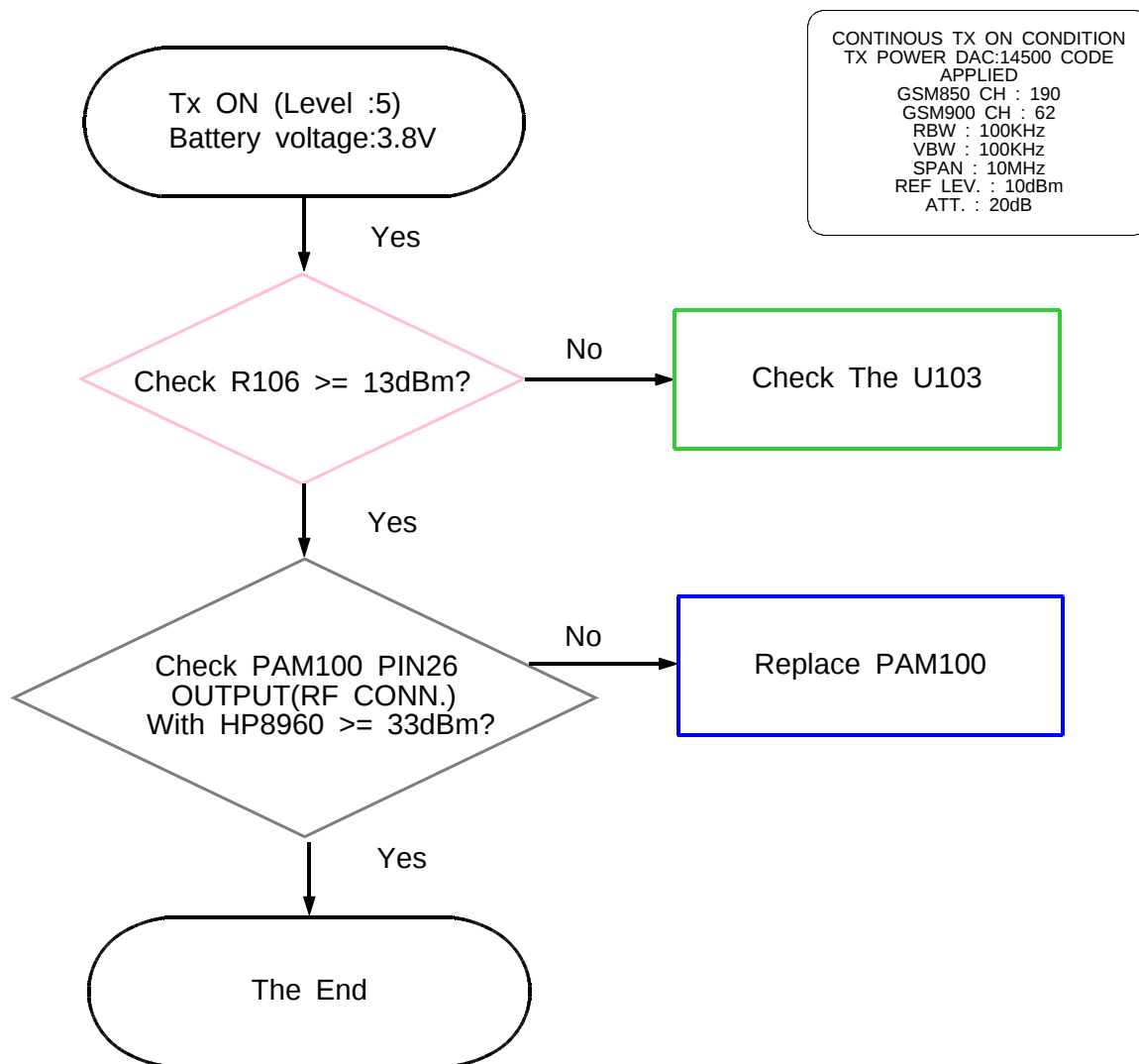




8-4-7. GSM850/900 TX

**If you check the tx chain,

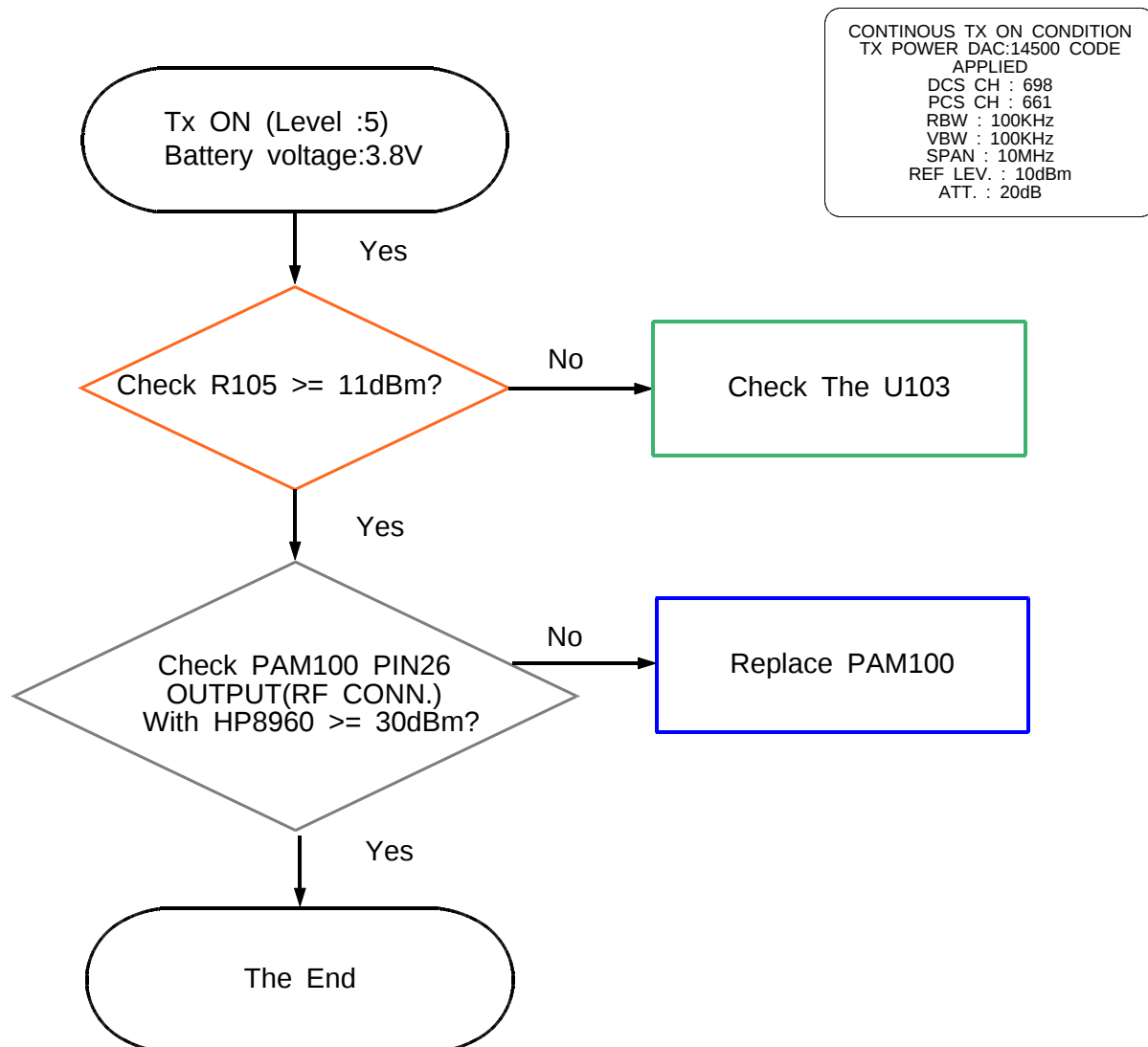
Check the not only RF Device but also resistor, inductor and capacitor.

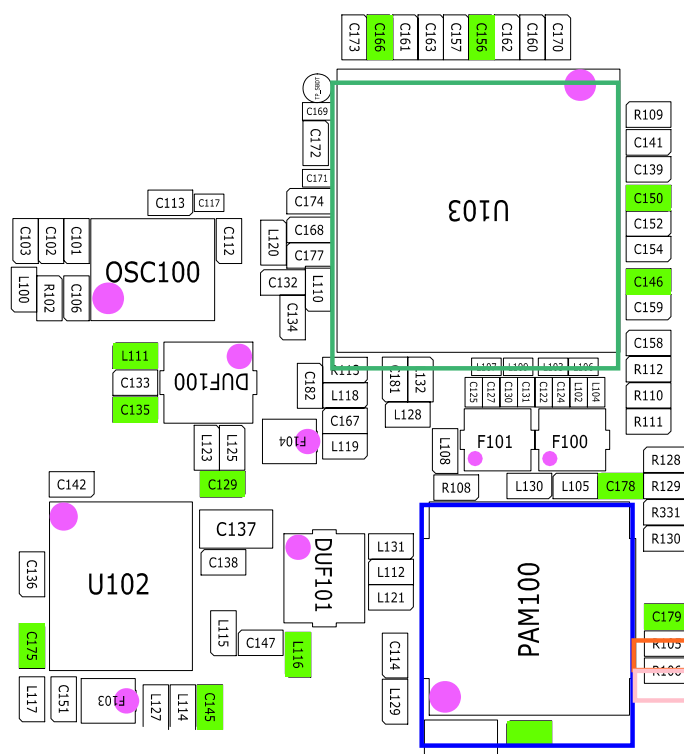
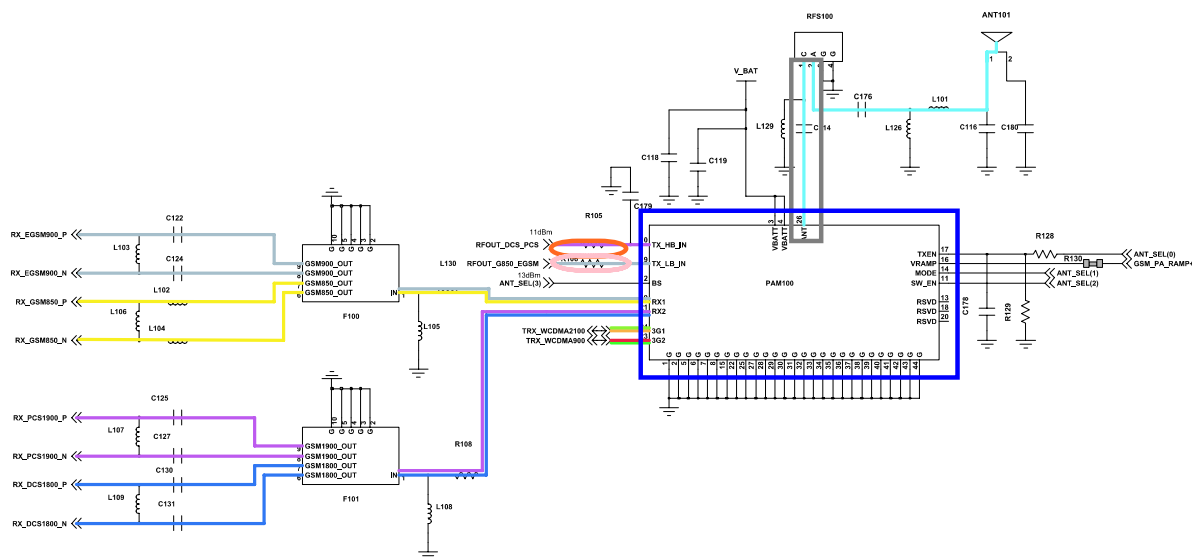


8-4-8. DCS/PCS TX

**If you check the tx chain,

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

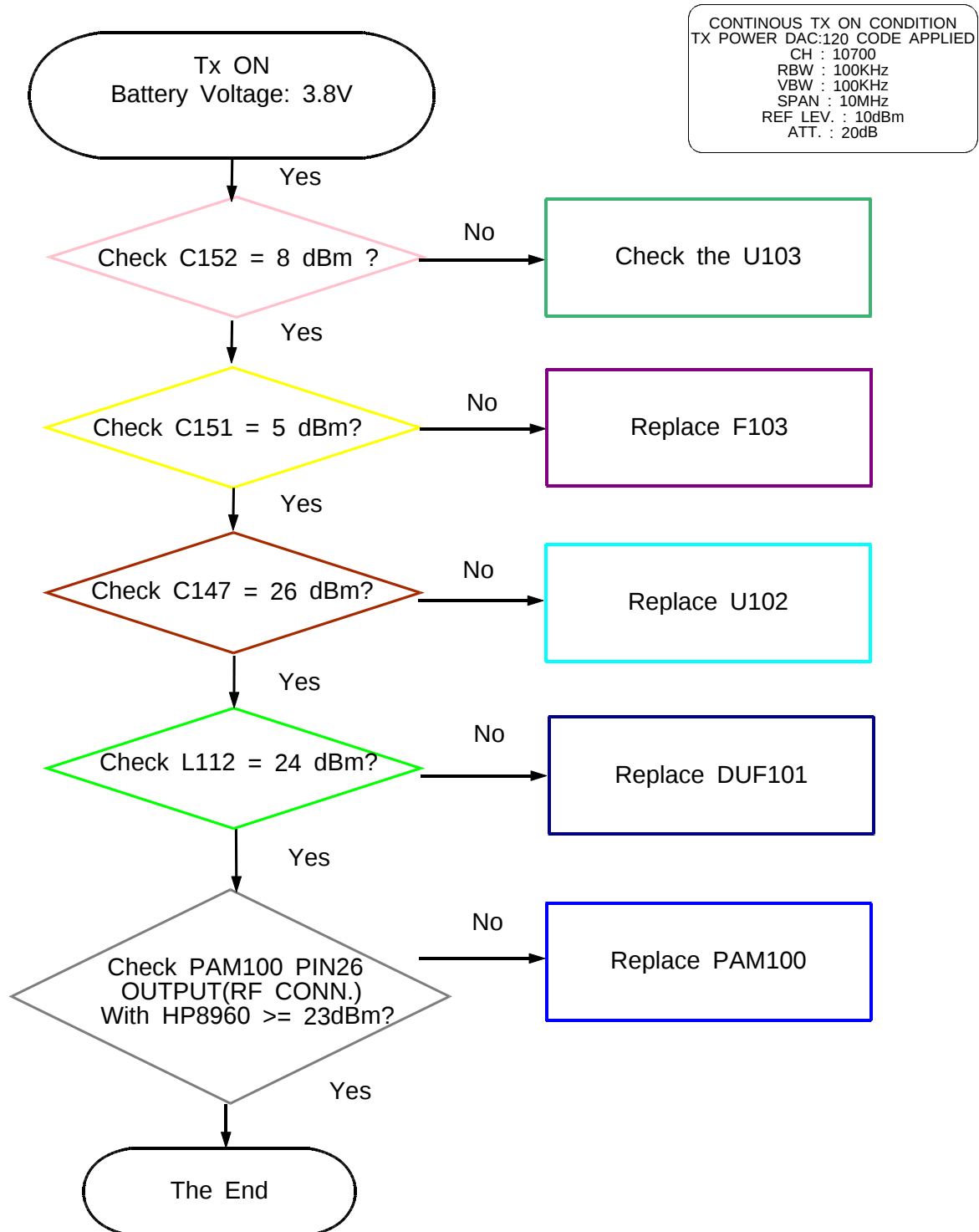




8-4-9. WCDMA Band1 TX (S5830B only)

**If you check the tx chain,

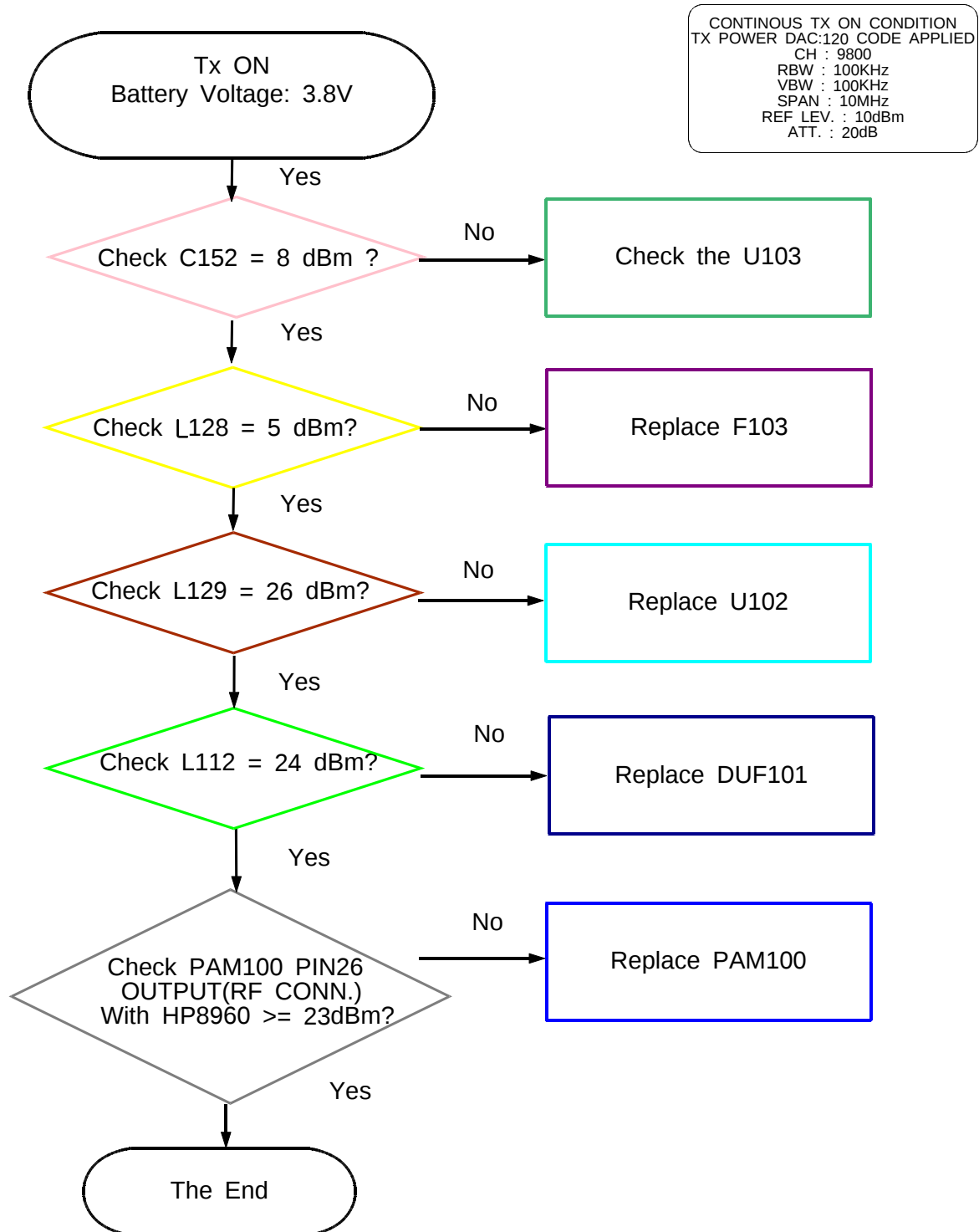
Check the not only RF Device but also resistor, inductor and capacitor.



8-4-10. WCDMA Band2 TX (S5830L only)

**If you check the tx chain,

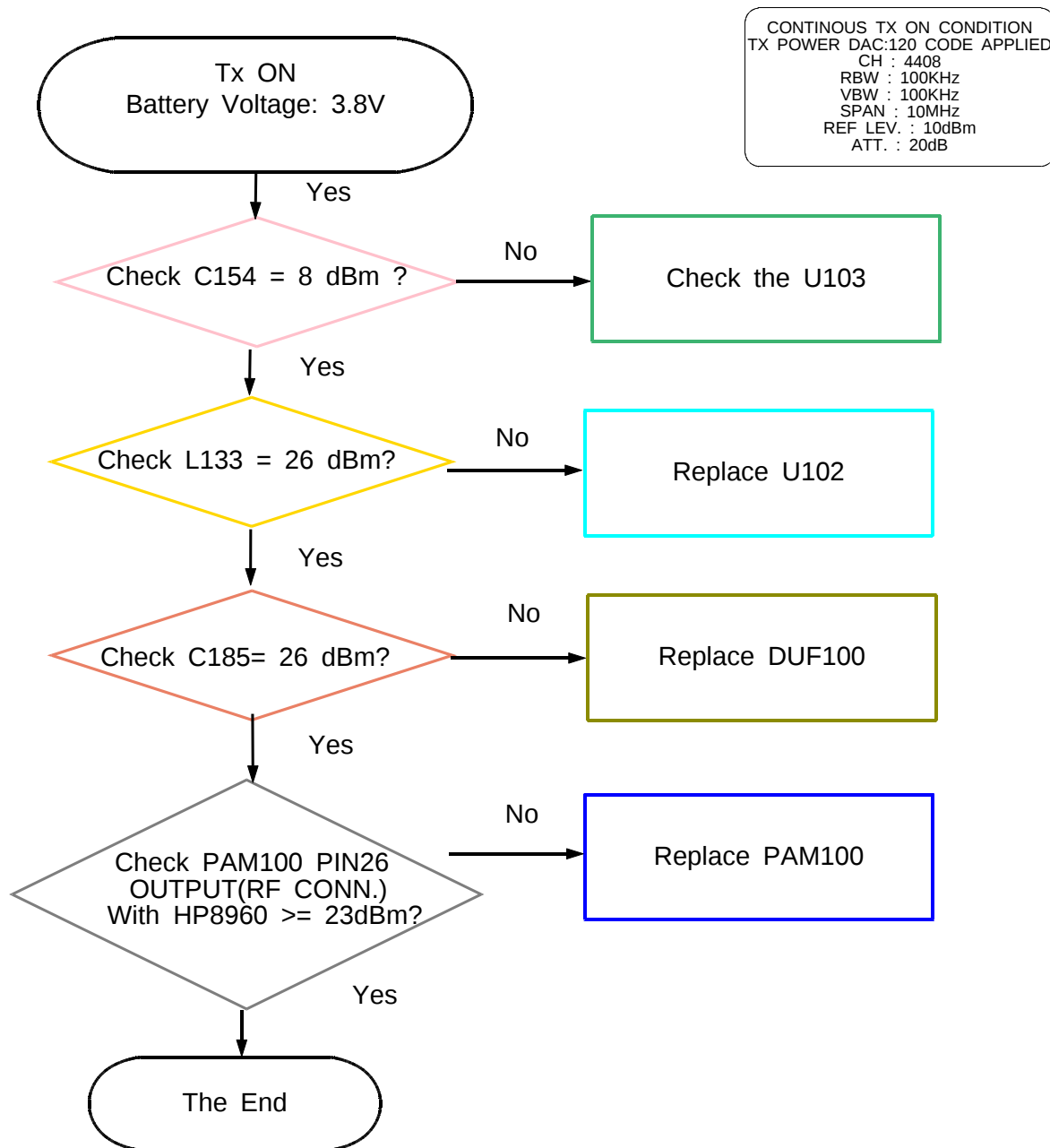
Check the not only RF Device but also resistor, inductor and capacitor.

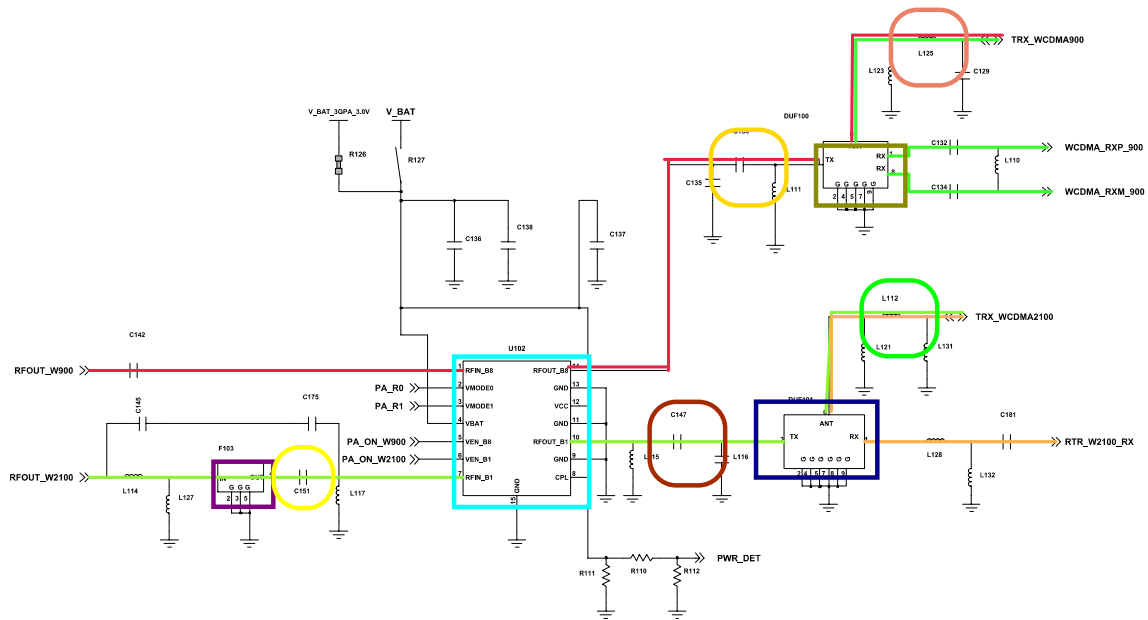


8-4-11. WCDMA Band5 TX

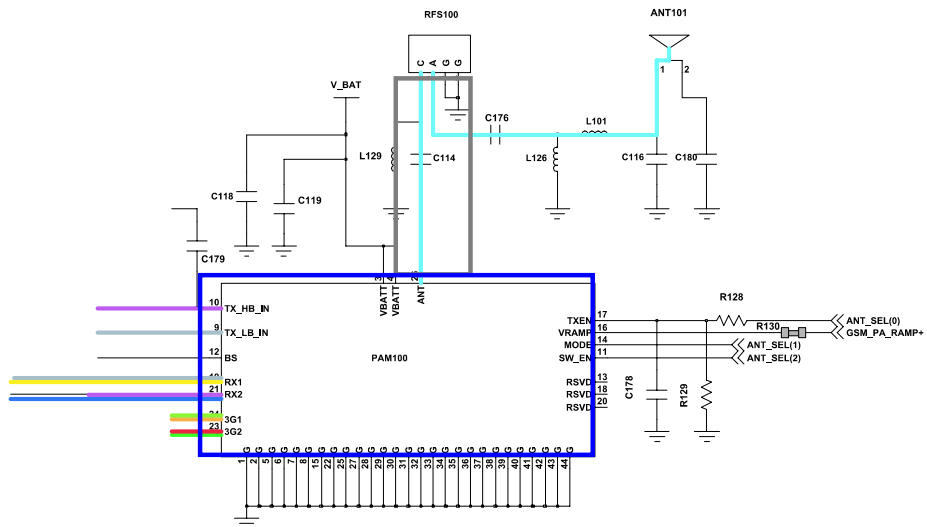
**If you check the tx chain,

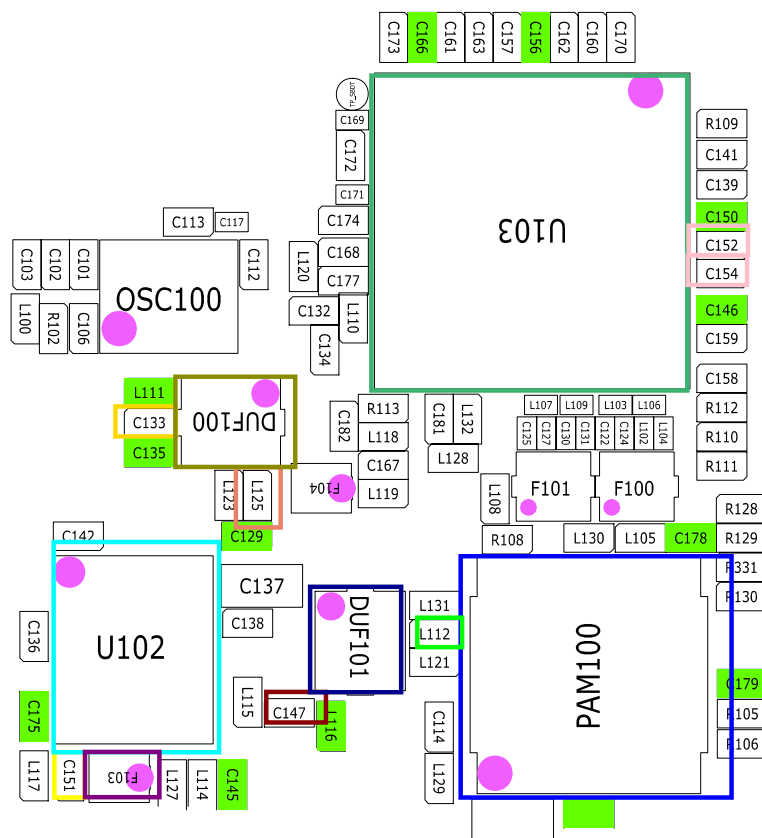
Check the not only RF Device but also resistor, inductor and capacitor.



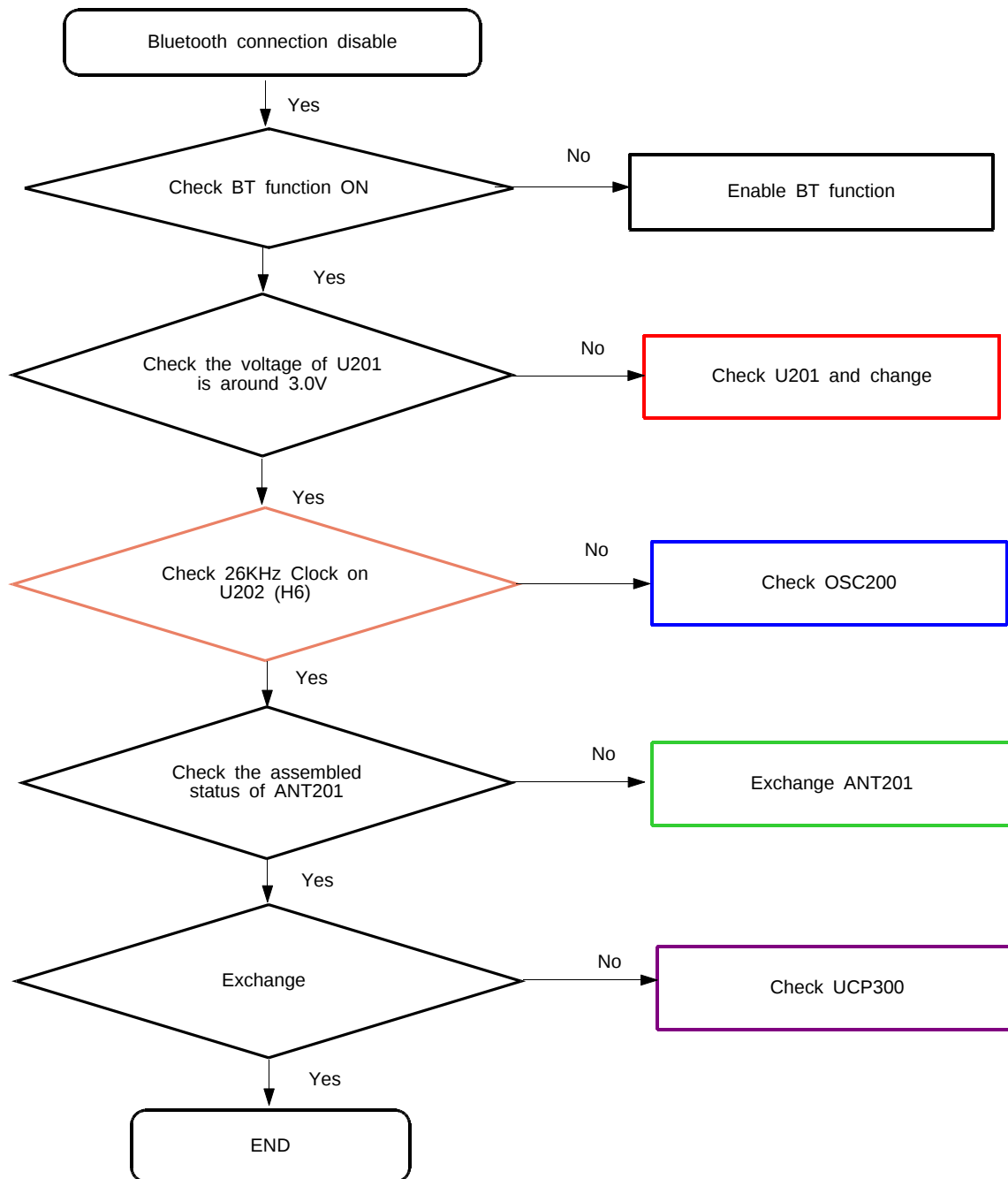


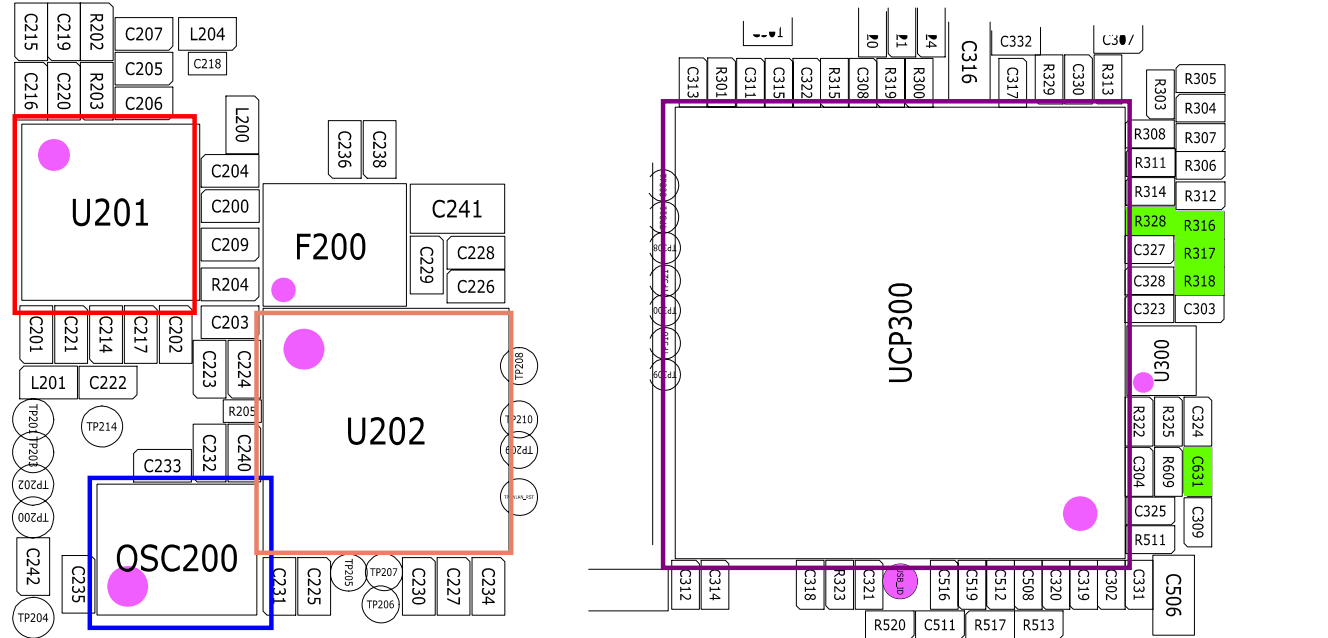
<WCDMA 900 & 2100 PAM>

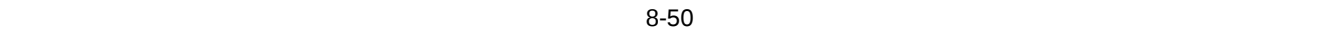




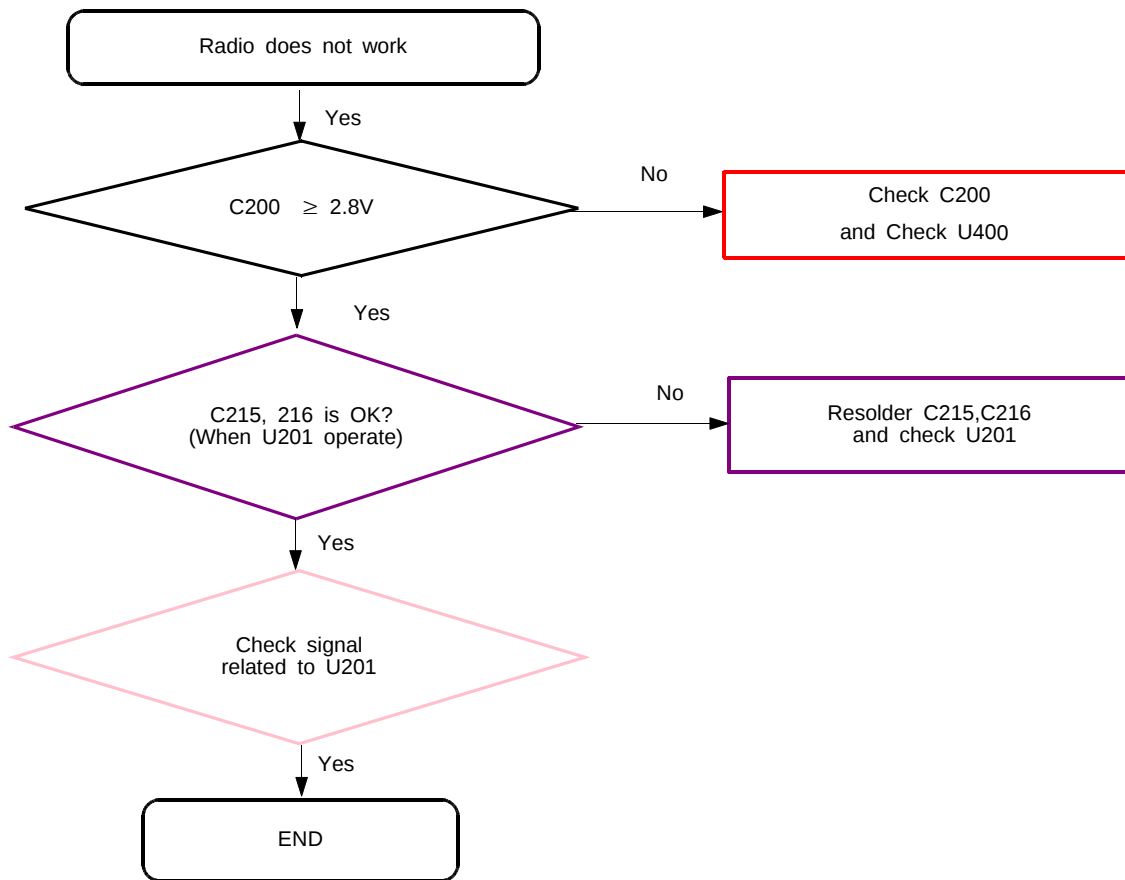
8-4-12. BLUETOOTH

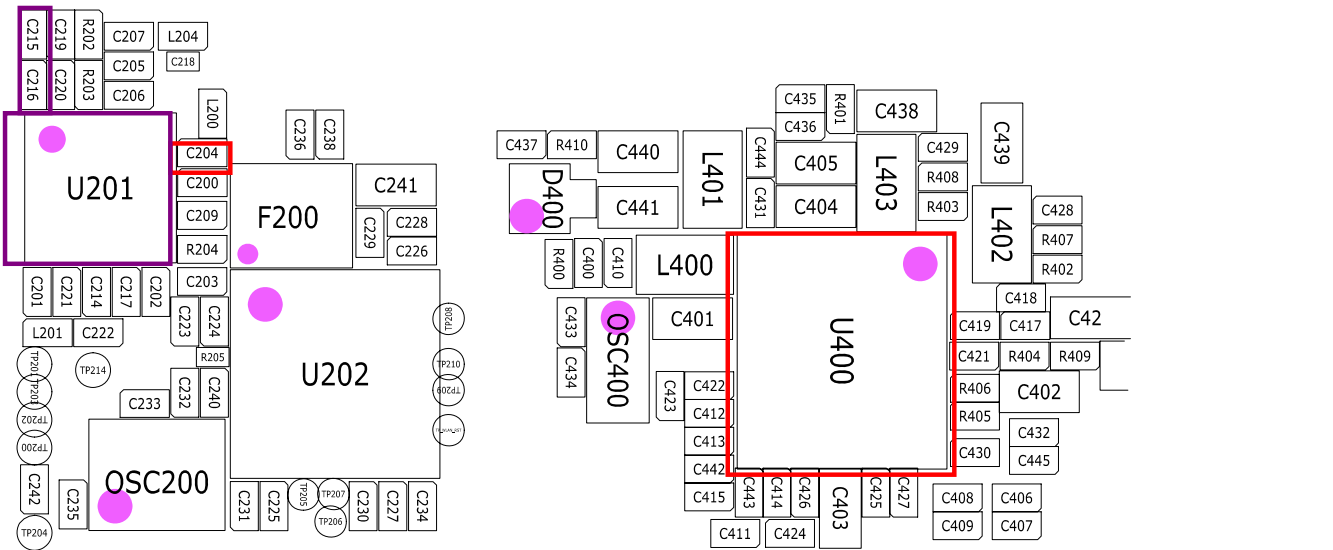




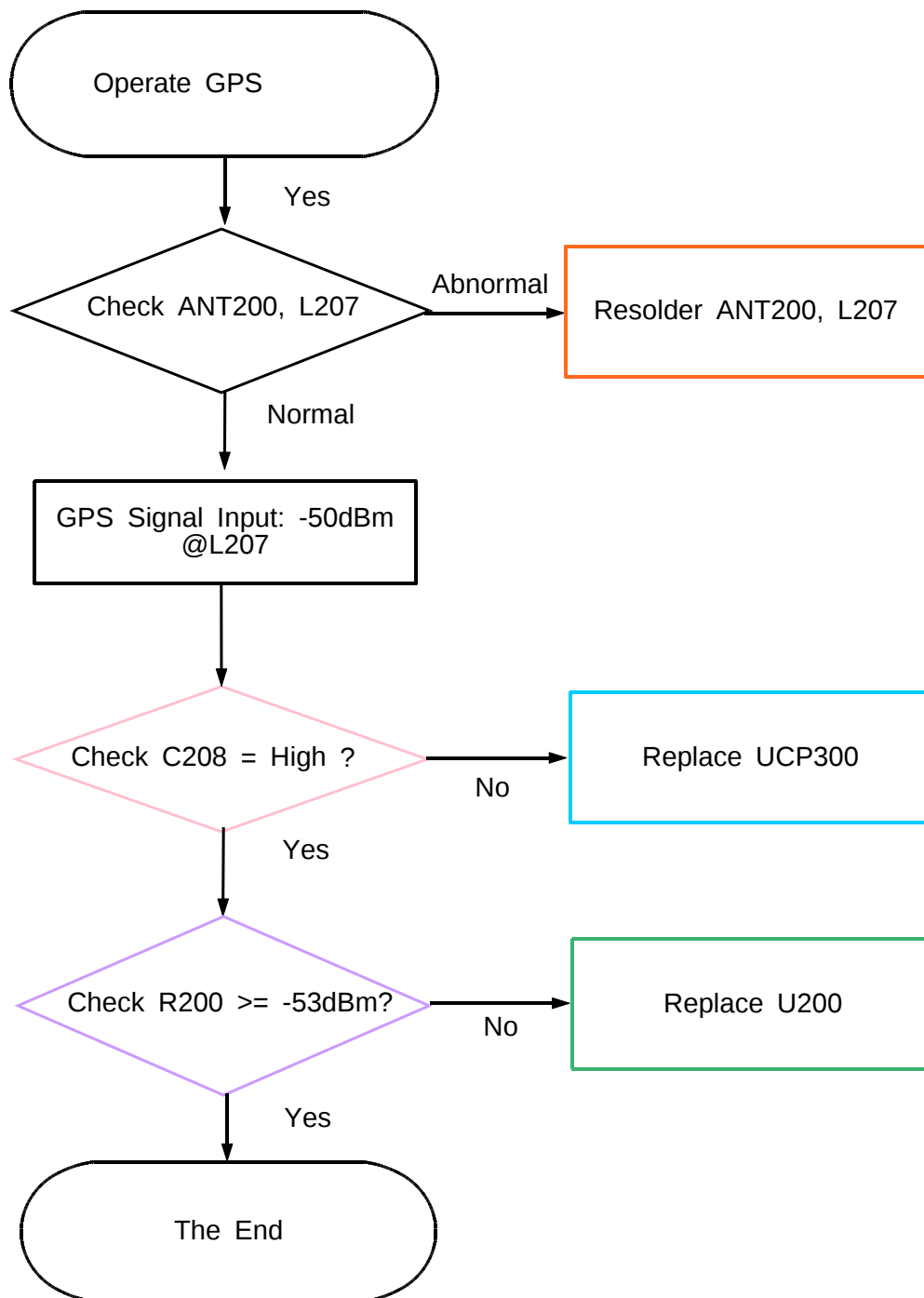


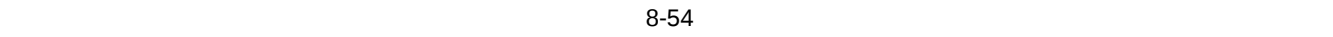
8-4-13. FM RADIO





8-4-14. GPS





8-5. Service Schematics

- NC Point(Top View)

● : NC

UME300

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
A	○	○	●	○	○	○	○	○	○	○	○	○	○	○
B	○	○	○	●	○	○	○	○	○	○	○	○	○	○
C	○	●	○	○	○	○	○	○	○	○	○	○	○	○
D	○	○	○	○								○	○	○
E	○	○	○		○	●	●	○	●	●		○	○	○
F	○	○	○		○					●		○	○	○
G	○	○	○		○					●		○	○	○
H	○	○	○		○					○		○	○	○
J	○	○	○		○					○		○	○	○
K	○	○	○		○	○	○	○	○	○		○	○	○
L	○	○	○									○	○	○
M	○	○	●	○	○	○	○	○	○	○	○	○	○	○
N	○	○	○	○	○	○	○	○	○	○	○	○	○	○
P	○	○	○	○	○	○	○	○	○	○	○	○	○	○

U400

	1	2	3	4	5	6	7	8	9	10	11
A	●	○	○	○	○	○	○	○	○	○	●
B	○	○	○	○	○	○	○	○	○	○	○
C	○	○	○	○	○	○	○	○	○	○	○
D	○	○	○	○	○	○	○	○	○	○	○
E	○	○	○	○	○	○	○	○	○	●	○
F	○	○	○	●	○	○	○	○	○	●	○
G	○	○	○	●	●	●	○	○	○	○	○
H	●	○	○	○	●	●	○	○	○	○	○
J	○	○	○	○	○	○	○	○	○	○	○
K	●	○	○	○	○	○	○	○	○	○	●

UCP300

	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	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	A
B	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	B
C	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	C
D	●	○	○																						○	○	○	D
E	●	○	○		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○		○	○	○	E
F	●	○	○		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○		○	○	○	F
G	●	○	○		○	○																○	○		○	○	○	G
H	●	○	○		○	○		○	○	○	○	○	○	○	○	○	○	○	○	○		○	○		○	○	○	H
J	●	○	○		○	○		○	○	○	○	○	○	○	○	○	○	○	○	○		○	○		○	○	○	J
K	●	○	○		○	○		○	○										○	○		○	○		○	○	○	K
L	●	○	○		○	○		○	○			○	○	○	○	○	○		○	○		○	○		○	○	○	L
M	●	○	○		○	○		○	○		○	○	○	○	○	○	○		○	○		○	○		○	○	○	M
N	●	○	○		○	○		○	○		○	○	○	○	○	○	○		○	○		○	○		○	○	○	N
P	●	○	○		○	○		○	○		○	○	○	○	○	○	○		○	○		○	○		○	○	○	P
R	●	○	○		○	○		○	○		○	○	○	○	○	○	○		○	○		○	○		○	○	○	R
T	●	○	○		○	○		○	○		○	○	○	○	○	○	○		○	○		○	○		○	○	○	T
U	●	○	○		○	○		○	○		○	○	○	○	○	○	○		○	○		○	○		○	○	○	U
V	●	○	○		○	○		○	○										○	○		○	○		○	○	○	V
W	●	○	○		○	○		○	○	○	○	○	○	○	○	○	○	○	○	○		○	○		○	○	○	W
Y	●	○	○		○	○		○	○	○	○	○	○	○	○	○	○	○	○	○		○	○		○	○	○	Y
AA	●	○	○		○	○																○	○		○	○	○	AA
AB	●	○	○		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○		○	○	○	AB
AC	●	○	○		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○		○	○	○	AC
AD	●	○	○																						○	○	○	AD
AE	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	AE
AF	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	AF
AG	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	AG
	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	

U202

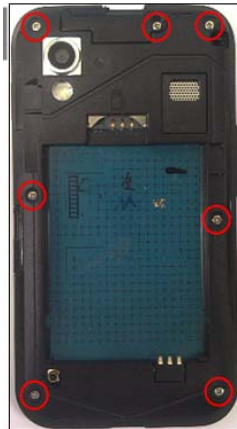
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A	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
B	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
C	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
D	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
E	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
F	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
G	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
H	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
J	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
K	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
L	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

7. Level 2 Repair

7-1. Disassembly

1

1) Unscrew the 7 points.



2

1) Disassemble the REAR CASE like below picture.
Lift the REAR CASE from below.



※ Caution

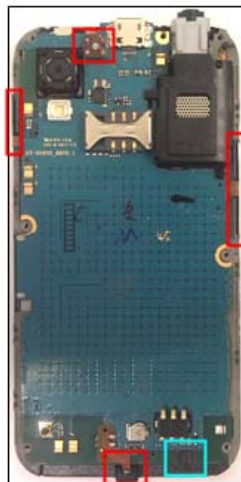
1) Be care of scratch and molding damage.

※ Caution

1) Be care of scratch and molding damage.

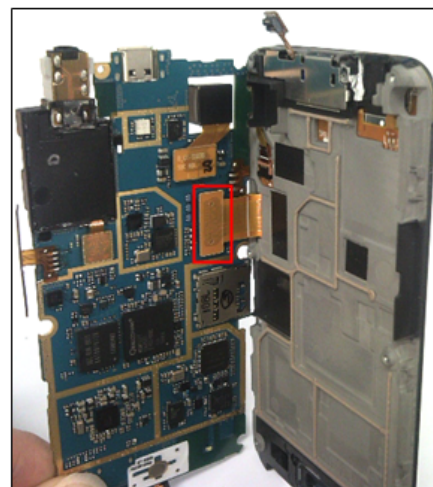
3

1) Detach the 2 KEY FPCB .
2) Separate the LCD connector.
3) Lift the MIC FPCB



4

1) Separate the LCD connector.



※ Caution

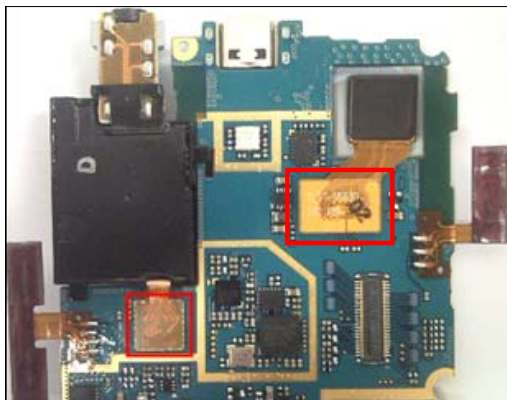
1) Be care of scratch and molding damage.
2) Be care of damage to the FPCB.

※ Caution

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

5

1) Separate the EARJACK connector and CAMERA connector from PBA.

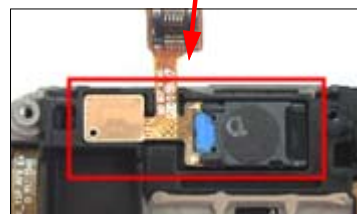
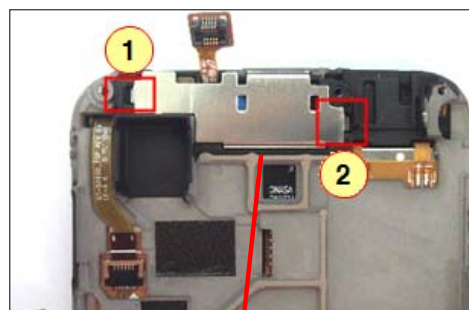


※ **Caution**

- 1) Be care of damage to the EARJACK Module.
- 2) Be care of damage to the CAMERA.

6

1) Disassemble the SUS and RCV from BRACKET.

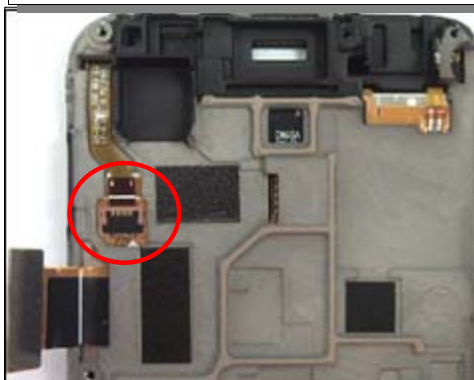


※ **Caution**

- 1) Be care of damage to RCV.

7

1) Open the TSP connector then separate TSP from BRACKET.



- 1) Be care of damage to the TSP FPCB.

8

1) Remove LCD from BRACKET.



- 1) Be care of scratch and molding damage.
- 2) Be care of damage to the TSP & LCD.

7-2. Assembly

1

1) Solder the MIC.

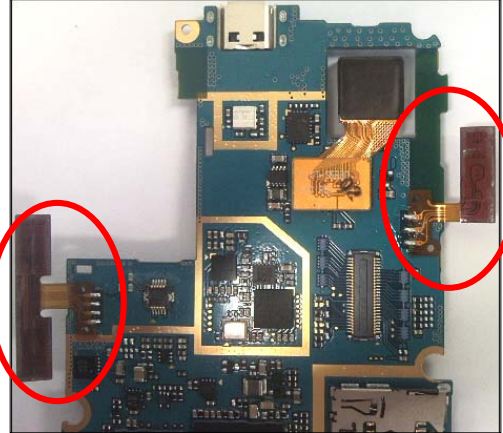


※ Caution

1) Be care of damage the FPCB.

2

1) Solder the VOLUME KEY & POWER KEY FPCB.

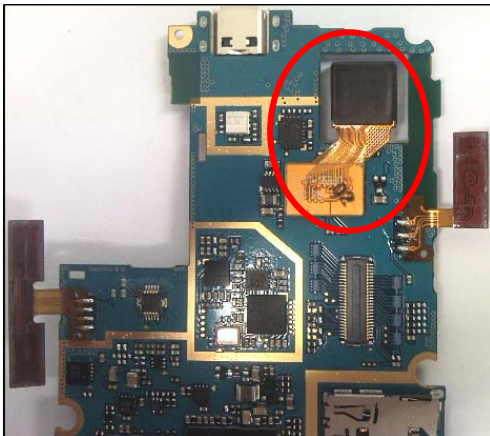


※ Caution

1) Be care of damage to PBA and MOTOR wire

3

1) Assemble the CAMERA.

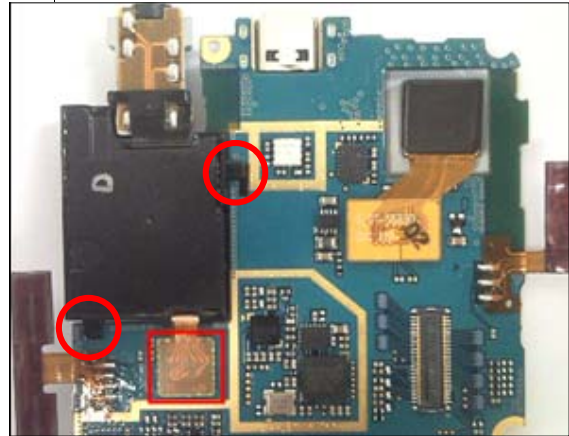


※ Caution

1) Be care of damage to PBA.
2) Be care of damage to CAMERA.

4

1) Assemble the EARJACK module and connector.



※ Caution

1) Be care of damage to PBA.

5

1) Place LCD on the BRACKET.



6

1) Pass FPCB to BRACKET hole and then attach the TSP to BRACKET using JIG.



※ Caution

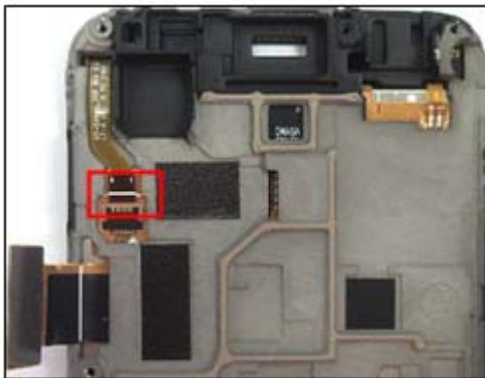
1) Be care of damage to LCD FPCB.

※ Caution

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

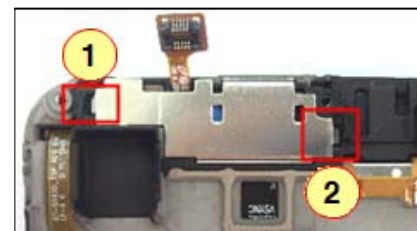
7

Connect the TSP connector.



8

1) Put the RCV to BRACKET.
2) Assemble the SUS to BRACKET.



※ Caution

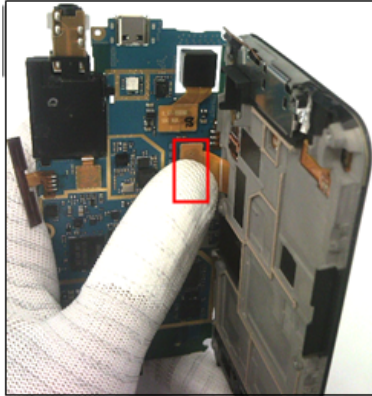
1) Be care of scratch and molding damage.
2) Be care of TSP Fpcb damage.

※ Caution

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

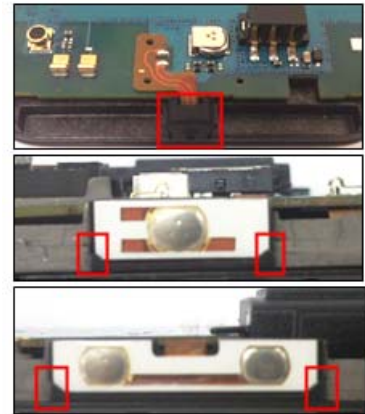
9

1) Connect the LCD connector.



10

1) Put the PBA to the BRACKET
2) Attach two KEYFPCB to the BRACKET and place the MIC.



※ Caution

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

※ Caution

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

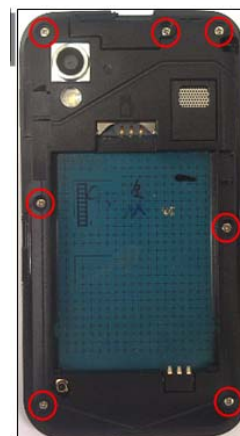
11

1) Assemble the REAR from upside.



12

1) Screw 7 points.
● Torque : 1.0 ~ 1.2 Kgf.cm
Size : M1.4 * L4.0



※ Caution

- 1) Be care of scratch and molding damage.

※ Caution

- 1) Be care of scratch and molding damage.