

SAMSUNG

GSM TELEPHONE

GT-B7300B

SERVICE *Manual*

GSM TELEPHONE



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6. MAIN Electrical Parts List

SEC CODE	Design LOC	Discription
0401-001144	D400	SUD492H
0403-001688	ZD401	USFZ5.6V-RTK/H
0404-001089	ZD605	RB551V-30
0404-001172	D300	RB520S-30
0404-001317	D600	1PS79SB10
0406-001231	D500,D501,D502,D503	DF2S5.6FS(TPL3)
0406-001231	D504,D505,D700,D701	DF2S5.6FS(TPL3)
0406-001231	D702,D704,D705,ZD400	DF2S5.6FS(TPL3)
0406-001231	ZD702,ZD705,ZD714	DF2S5.6FS(TPL3)
0406-001267	ZD604	RCLAMP0521P
0406-001369	U608	RCLAMP3654P.TCT
0406-001375	D602,D603,D604	UCLAMP0501T
0504-001138	Q600	DTA114EM
0505-002088	TR300,TR400	2SK3541
0505-002268	U701,U702	NTJD4001NT1G
0601-001905	LED700	SSC-THBTGFR421
0801-003016	U302	NC7SV08L6X
0801-003022	U100	NC7SV04L6X
0801-003200	U304	NC7SZ00L6X
0801-003265	U300	74AUP1G74GM
0801-003271	U800	74AUP2G08GM
0902-002440	UCP800	SC36410A8N-A040
1001-001394	U400	NLAS5123MNR2G
1001-001461	U600	NLAST9431
1001-001483	U703	FSUSB31L8X
1001-001580	U601	FSA9480UCX
1003-002047	U605	ISA1000
1003-002185	U301,U801,U802	NLSV1T34AMX1TCG
1201-002856	U200	ALM-1712-SG1
1201-002864	U501	MAX9877AERP-T
1201-002887	PAM103	SKY77188
1201-002889	PAM101	SKY77186
1201-002961	PAM100	TQM7M5012H
1203-003924	U402	XC61CN3202NR
1203-004043	U606	XC6401FF35ER
1203-004571	U603	RP150K002A-TR
1203-004606	U202	XC6401EE23DR
1203-004806	U500	RP100K281D-TR
1203-004845	U607	TPS61161DRVR
1203-004925	U203	RP103K301D-TR
1203-005250	U604	MIC5335-MGYMT
1203-005434	U401	MAX8674EWN+
1203-005667	U404	MAX8698EWO-T

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1203-005689	U403	MAX8844YETD-T
1204-003026	U201	SI4709-B-GMR
1205-003297	U101	RTR6285
1205-003467	U303	AAT4285IJS-3-T1
1205-003726	UCP300	MSM6246
1205-003916	U502	AK4671EG-L
1209-001823	U700	KXSD9-2042
1404-001221	TH300,TH800	NCP15WB473J04RC
2007-000138	R100	RC1005J101CS
2007-000139	R108,R109	RC1005J221CS
2007-000140	R202	RC1005J102CS
2007-000149	R513	RC1005J123CS
2007-000162	R700,R820,R823	RC1005J104CS
2007-000170	R815	RC1005J105CS
2007-001119	R505	RC1005J681CS
2007-001285	R118	ERJ2GEJ5R6X
2007-001290	R107,R121,R122	RC1005J240CS
2007-001291	R104	RC1005J300CS
2007-001295	R702,R703	RC1005J390CS
2007-001298	R123,R603,R604	RC1005J510CS
2007-001307	R105,R106,R701	RC1005J181CS
2007-001339	R613	RC1005J184CS
2007-003014	R400	TSR16GJ244V
2007-003022	R120	TSR16GJ620V
2007-007107	R423	RC1005F1003CS
2007-007132	R418	RC1005F153CS
2007-007139	R313,R314,R819,R822	MCR01MZP5F4702
2007-007309	R116	MCR01MZP5F1202
2007-007313	R504	RK73H1ETP6801F
2007-007317	R103	RK73H1ETP2201F
2007-007318	R416	MCR01MZP5F1001
2007-007480	R405	RK73H1ETP1303F
2007-007529	R315	RK73H1ETP9102F
2007-007698	R403	RK73H1ETP5101F
2007-007741	R503	M5534204B10E0R
2007-007798	R614	RC1005F0100CS
2007-007943	R607	RK73H1ETP5603F
2007-008045	R101,R306,R308,R329	ERJ1GEJ101C
2007-008045	R332,R333,R426,R602	ERJ1GEJ101C
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2007-008045	R813,R814	ERJ1GEJ101C
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2007-008052	R411,R412,R502,R811	ERJ1GENJ472X

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2007-008055	R810,R832,R833,R834	ERJ1GENJ104X
2007-008055	R835,R838,R839,R841	ERJ1GENJ104X
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2007-008419	R110,R111,R112,R113	ERJ1GEJ102C
2007-008419	R125	ERJ1GEJ102C
2007-008420	R309,R328	RMC-1/20-330JPA
2007-008516	R201,R303,R304,R408	ERJ1GEJ103C
2007-008516	R420,R421,R605,R800	ERJ1GEJ103C
2007-008516	R801,R803,R804	ERJ1GEJ103C
2007-008588	R826,R827	MCR006YZPJ222
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2007-008774	R616,R617,R618	ERJ1GEJ2R2C
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2007-009084	R205,R316	MCR006YZPJ105
2007-009115	R310	RC0603J240CS
2007-009155	R407,R410	MCR006YZPJ474
2007-009157	R413,R818	MCR006YZPF1003
2007-009158	R404	MCR006MZPF1503
2007-009170	R520	MCR006YZPJ184
2007-009171	R305	MCR006YZPJ513
2007-009402	R506	RC0603F152CS
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2007-009954	R401	MCR006YZPF6802
2007-009964	R831	MCR01MZP5F44R2
2007-010030	R828	MCR01MZP5F6491
2203-000233	C1120,C1121,C131	GRP1555C1H101J
2203-000233	C141,C143,C234,C400	GRP1555C1H101J
2203-000233	C425	GRP1555C1H101J
2203-000254	C100,C107,C823	GRP155R71C103K
2203-000278	C1106,C531	GRP1555C1H100D
2203-000359	C415	GRP1555C1H151JD01E
2203-000386	C554,C606,C822,C824	GRP1555C1H150J
2203-000438	C102,C105,C108	GRP155R71H102K
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2203-000627	C1127,C228	GRM1555C1H220J

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2203-000696	C1116,C1122	GRP1555C1H2R0C
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2203-000812	C138,C167,C215,C540	GRP1555C1H330J
2203-000812	C542,C544,C546,C548	GRP1555C1H330J
2203-000812	C549,C550,C620,C621	GRP1555C1H330J
2203-000812	C622	GRP1555C1H330J
2203-000854	C113	GRP1555C1H390J
2203-000995	C103,C551	GRP1555C1H470J
2203-001017	C123	GRP1555C1H4R0C
2203-001153	C144,C148,C555,C607	GRP1555C1H680J
2203-001153	C625,C626	GRP1555C1H680J
2203-001259	C541,C543	GRP1555C1H8R0DZ01E
2203-002677	C111	CL05CR75BBNC
2203-002709	C829	C1005Y5V1C104ZT
2203-003054	C603,C604,C605	GRP1555C1H9R0C
2203-005050	C238	GRP1555C1H1R8CZ01E
2203-005053	C218,C219	GRP1555C1H3R9CZ01E
2203-005057	C197	GRP1555C1H8R2CZ01E
2203-005138	C830	04025C182KAT2A
2203-005234	C1131,C237	GRP1555C1H1R2CZ01E
2203-005288	C235	GRP1555C1H1R0BZ01E
2203-005382	C119	GRP1555C1H6R0BZ01E
2203-005395	C121,C122,C137	C1005CG1H4R7BT
2203-005446	C118	GRP1555C1H2R7BZ01E
2203-005450	C1117,C196	GRP1555C1H5R6BZ01E
2203-005682	C110,C114,C166,C302	GRP0335C1E330JD01E
2203-005682	C538	GRP0335C1E330JD01E
2203-005683	C706,C707	GRP0335C1E8R0DD01E
2203-005725	C1118,C1130,C155	GRP0335C1E220JD01E
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2203-005736	C1110,C153,C160,C161	GRP0335C1E101JD01E
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2203-005740	C206,C207	GRM0335C1E5R0C
2203-005806	C129,C190,C199,C308	GRP033R71C102KD01E
2203-005806	C313	GRP033R71C102KD01E
2203-006048	C106,C1123,C1128	GRM155R71A104K
2203-006048	C700	GRM155R71A104K
2203-006137	C507,C508	CL05B223KONC
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2203-006260	C509,C514	GRM155R61A224KE19E
2203-006305	C201,C211	CM03CG100J25AH
2203-006348	C617	CV105X5R105K25AT
2203-006379	C510	GRP033R70J472KA01
2203-006399	C305,C306,C312,C316	GRM155R60J105KE19D
2203-006399	C321,C327,C328,C335	GRM155R60J105KE19D
2203-006399	C340,C408,C410	GRM155R60J105KE19D
2203-006423	C101,C1111,C115,C154	GRM33X5R104K6.3
2203-006423	C156,C177,C187,C194	GRM33X5R104K6.3
2203-006423	C304,C309,C311,C317	GRM33X5R104K6.3
2203-006423	C318,C326,C329,C333	GRM33X5R104K6.3
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2203-006423	C417,C418,C446,C504	GRM33X5R104K6.3
2203-006423	C505,C513,C800,C801	GRM33X5R104K6.3
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2203-006423	C809,C810,C811,C812	GRM33X5R104K6.3
2203-006423	C813,C814,C815,C816	GRM33X5R104K6.3
2203-006423	C817,C818,C819,C820	GRM33X5R104K6.3
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2203-006556	C537	GRM0335C1E470JD01D
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2203-006562	C436,C437,C438,C439	CV05X5R105K10AH
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2203-006647	C704	GRM033R60J473KE19D
2203-006668	C300	GRM033R61A222K
2203-006681	C435,C705	GRM155F51E104ZA01D
2203-006707	C535	GRM0335C1E4R7C
2203-006824	C341,C406,C427,C428	CV105X5R475K10AT
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2203-006839	C414,C506	CL03A104KP3NNNC
2203-006841	C434,C521,C522,C523	CV05X5R105K16AH
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2203-007279	C117,C130,C147,C209	CV105X5R106M10AT
2203-007279	C403,C500,C501,C601	CV105X5R106M10AT
2203-007317	C1102,C401,C416,C426	CV05X5R475M06AH
2203-007317	C805	CV05X5R475M06AH
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2404-001506	TA500	TCTP1A476M8R-D
2703-001178	L116	LL1005-FH3N3S
2703-001723	C112	LL1005-FH33NJ
2703-001733	L118	LL1005-FH8N2J
2703-001747	L108	LL1005-FH4N7S
2703-001748	L109,L125	LL1005-FH5N6S
2703-001752	C1105	LL1005-FH39NJ
2703-001786	C1129	LL1005-FH10NJ
2703-001990	L104,L107	LL1005-FH22NJ
2703-002170	L123,L124	CIH05T6N8JNC
2703-002176	L112,L113	CIH05T2N7SNC
2703-002199	L110	CIH05T12NKNC
2703-002200	L102,L103,L117,L119	CIH05T18NJNC
2703-002200	L126	CIH05T18NJNC
2703-002203	L120	CIH05T15NJNC
2703-002204	L106	CIH05T22NJNC
2703-002207	L121,L200	CIH05T3N3SNC
2703-002208	L114	CIH05T2N2SNC
2703-002314	L105	CIH05T47NJNC
2703-002767	L605	VLF3010AT-220MR33
2703-002842	L122	LLV0603-F2N2S
2703-002955	L700,L701,L702,L703	MLG0603S33NJT
2703-002961	L101	MLG0603SR10JT
2703-003205	L603,L604	LQG15HS82NJ02
2703-003260	L400,L401,L402,L403	CIG21W2R2MNE
2703-003260	L404,L405	CIG21W2R2MNE
2703-003534	L602	LQM21PNR47MC0D
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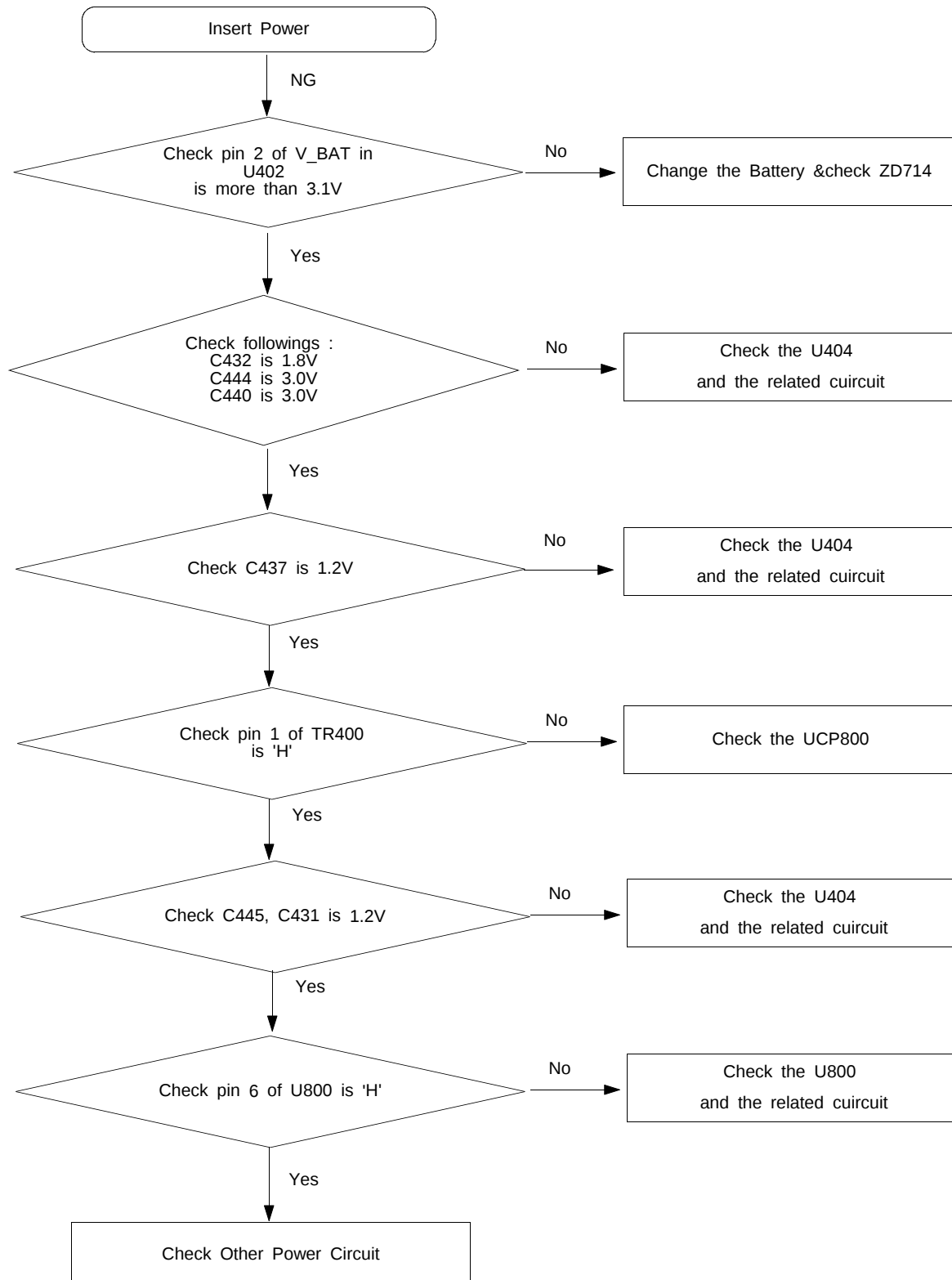
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2804-001845	OSC801	CSC6S480000BEVRS00
2809-001345	OSC100	KT3225P19200ACW28ZN0
2901-001361	F701,F702,F703	ICVE31056E250R101FR
2901-001409	F707	ICVE10054E250R101FR
2901-001470	F704,F705,F706	ICVE10184E070R100FR
2901-001525	F700	ICVE10184E150R101FR
2901-001552	F501	EMIF06-MSD01C2
2904-001756	F104	SAFEB2G14FA0F00
2904-001789	F101	FAR-F6KA-1G9500-D4DGHZ
2904-001898	F103	FAR-F5KA-836M50-D4DF
2910-000068	DUF102	SAYFP836MCA0F00
2910-000070	DUF100	SAYFP1G95AA0B00
2911-000128	F100	LMSP43QL-771
3003-001138	MIC500	SPU0410LR5H-QB
3301-001729	L600,L601	BLM15AG102SN1D
3301-001756	L100,L202,L501	BLM15HG102SN1D
3301-001885	L502,L606	BLM15HD182SN1D
3301-001901	L201	BLM18EG221SN1D
3404-001303	TAC700,TAC701,TAC702	LS12K2-T
3404-001303	TAC703,TAC704,TAC705	LS12K2-T
3705-001503	RFS100	KMS-560
3708-002236	HDC704	FPC/FFC/PFF12-12A-R12BN-D3
3709-001580	CD500	MS110-C10B-C16-H
3711-005345	HDC703	14-5602-020-000-829
3711-005578	HDC500	14-5602-016-000-829
3711-005728	HDC702	AXK8L30125S
3711-006352	HDC701	AXK8L44125S
3711-006803	BTC400	202-02760-00347
3722-002919	IFC600	HY07-AB0750
4202-001463	ANT201	ODBTP3015
4302-001181	BAT400	ML414RU2-TT36-TP1
4709-001662	MOD200	SWB-M20
GH70-05184A	SC301	SHIELDCAN-WM-A
GH70-05584A	SC300	SHIELDCAN-WM-B
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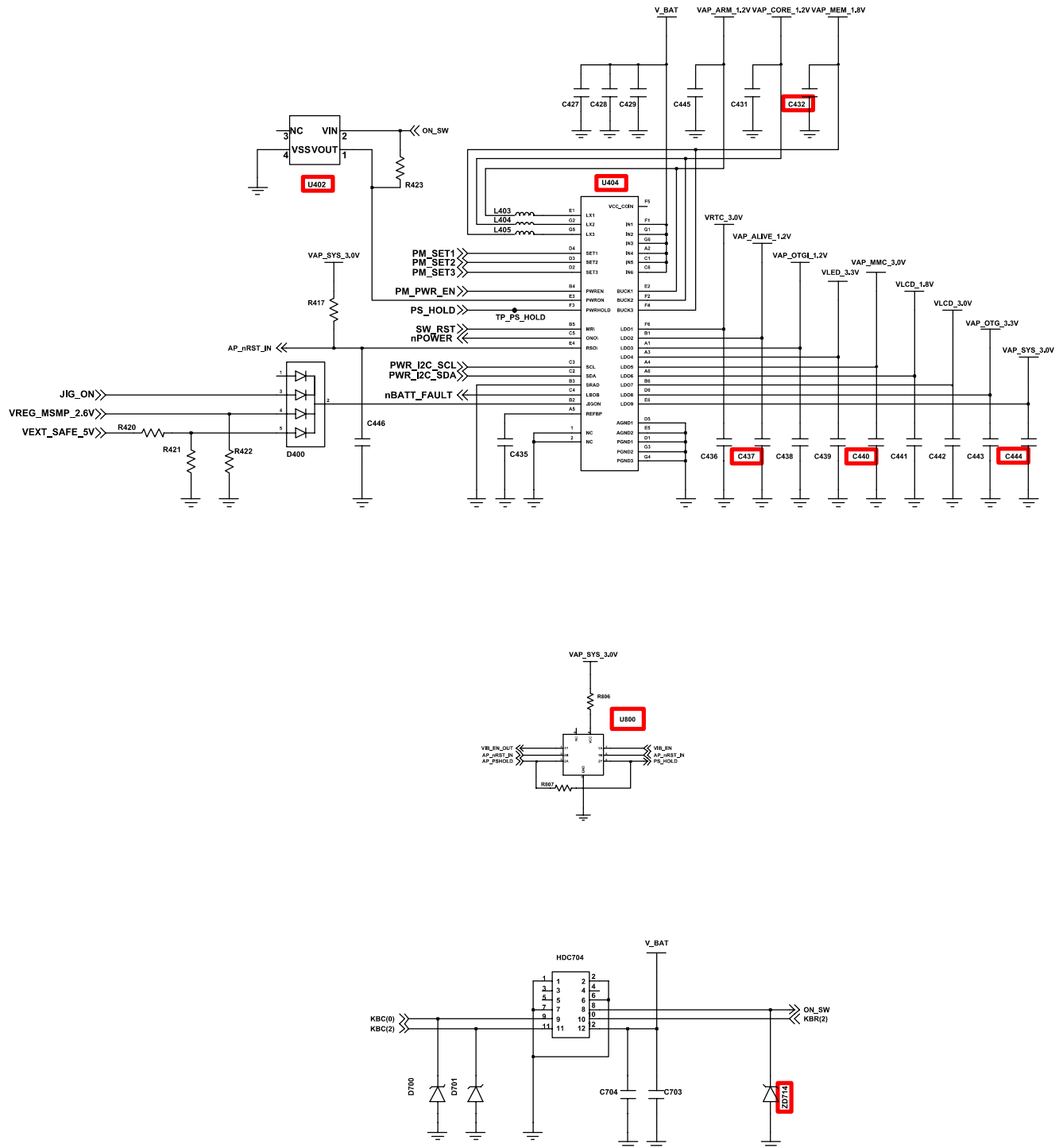
Please consult the GSPN website (Samsung Portal) for the most recent version of the product's part list.

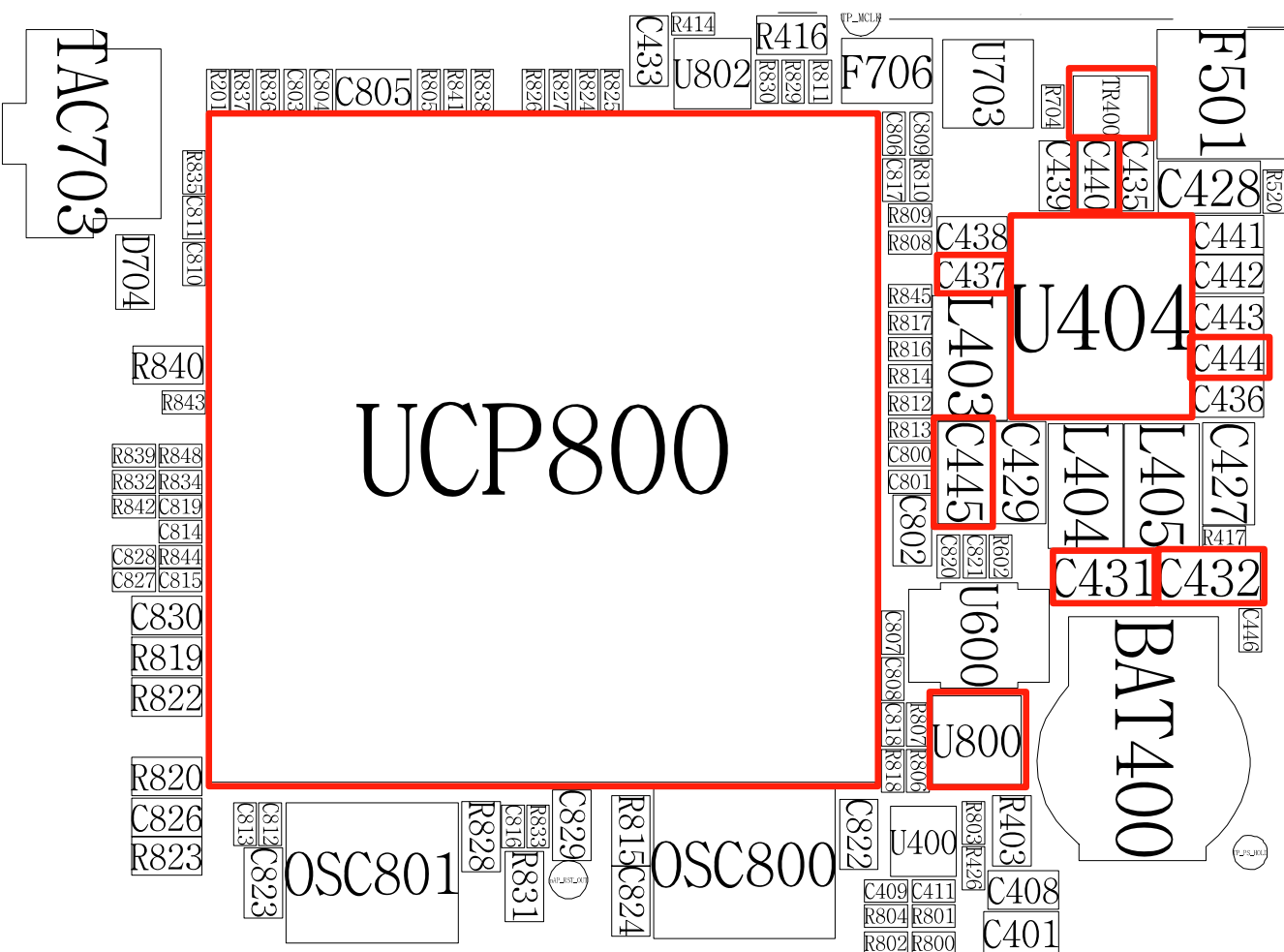
9. Flow Chart of Troubleshooting

9-1. Power On

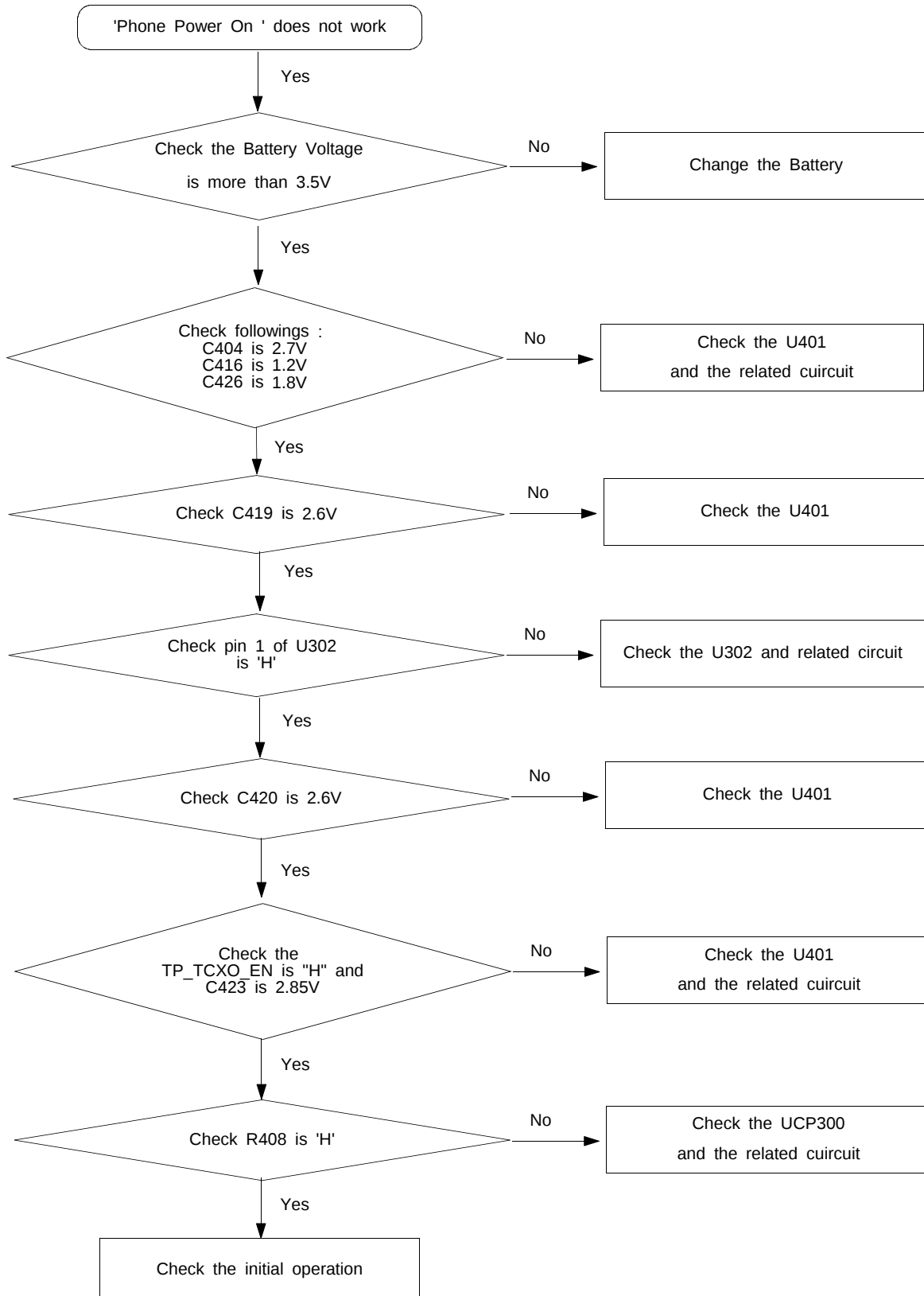
9-1-1. PDA Part

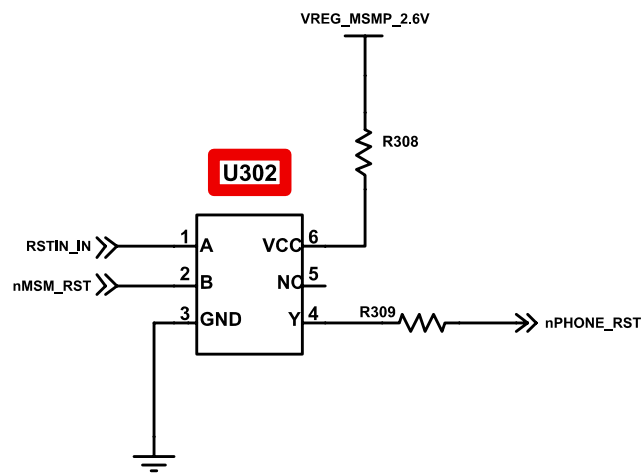
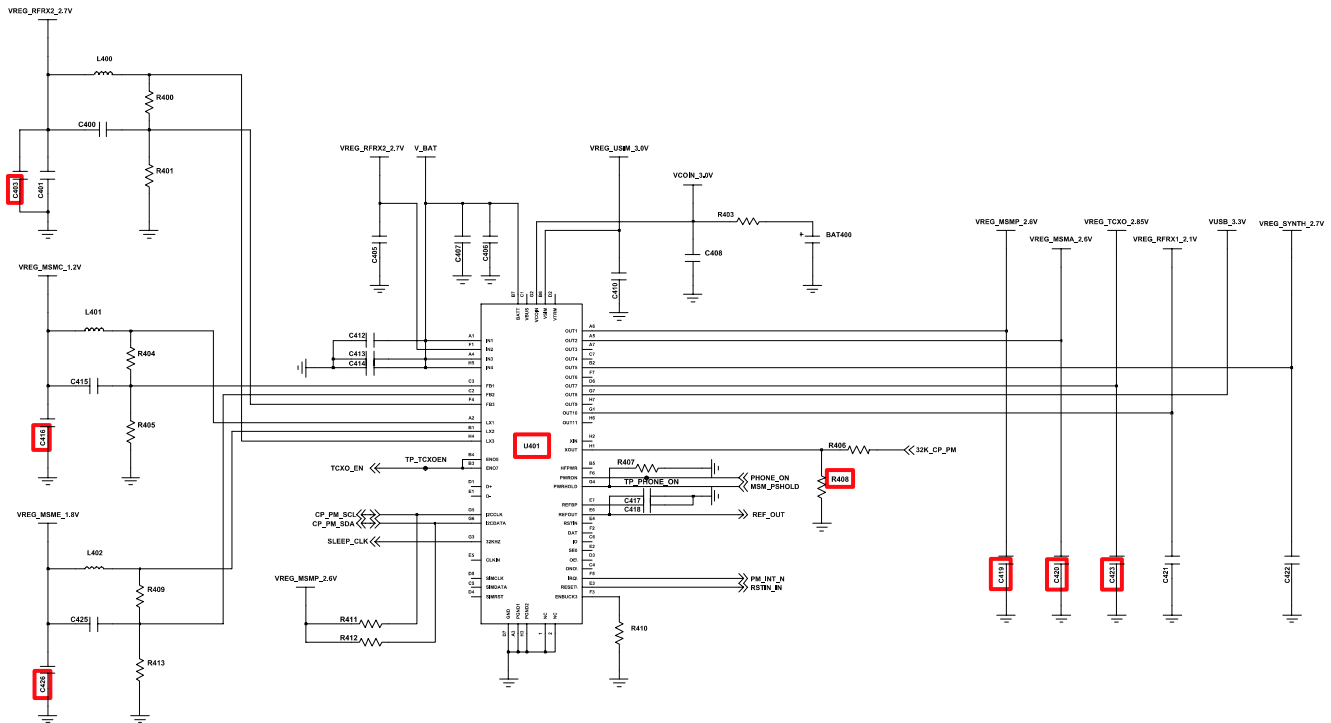


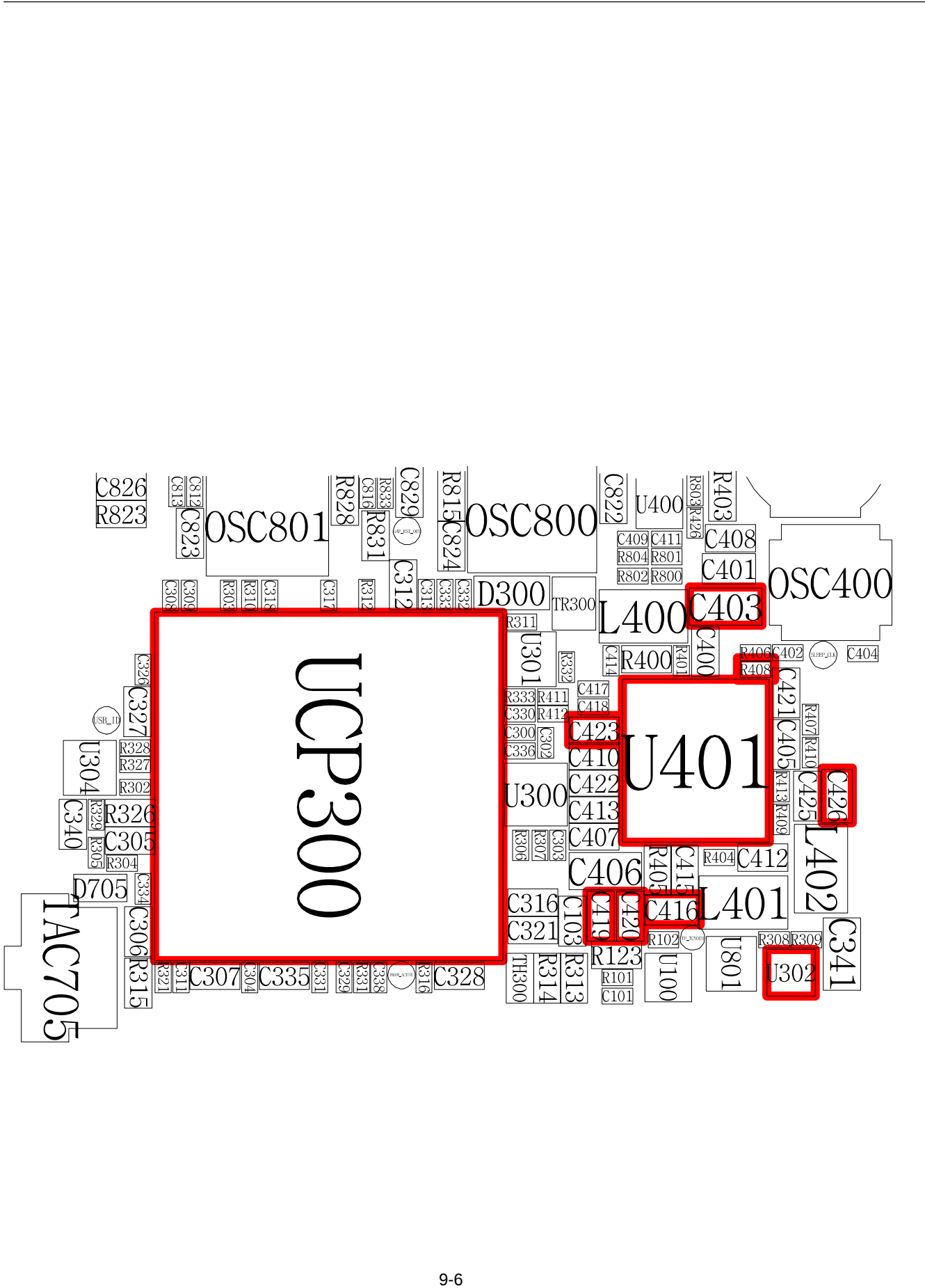




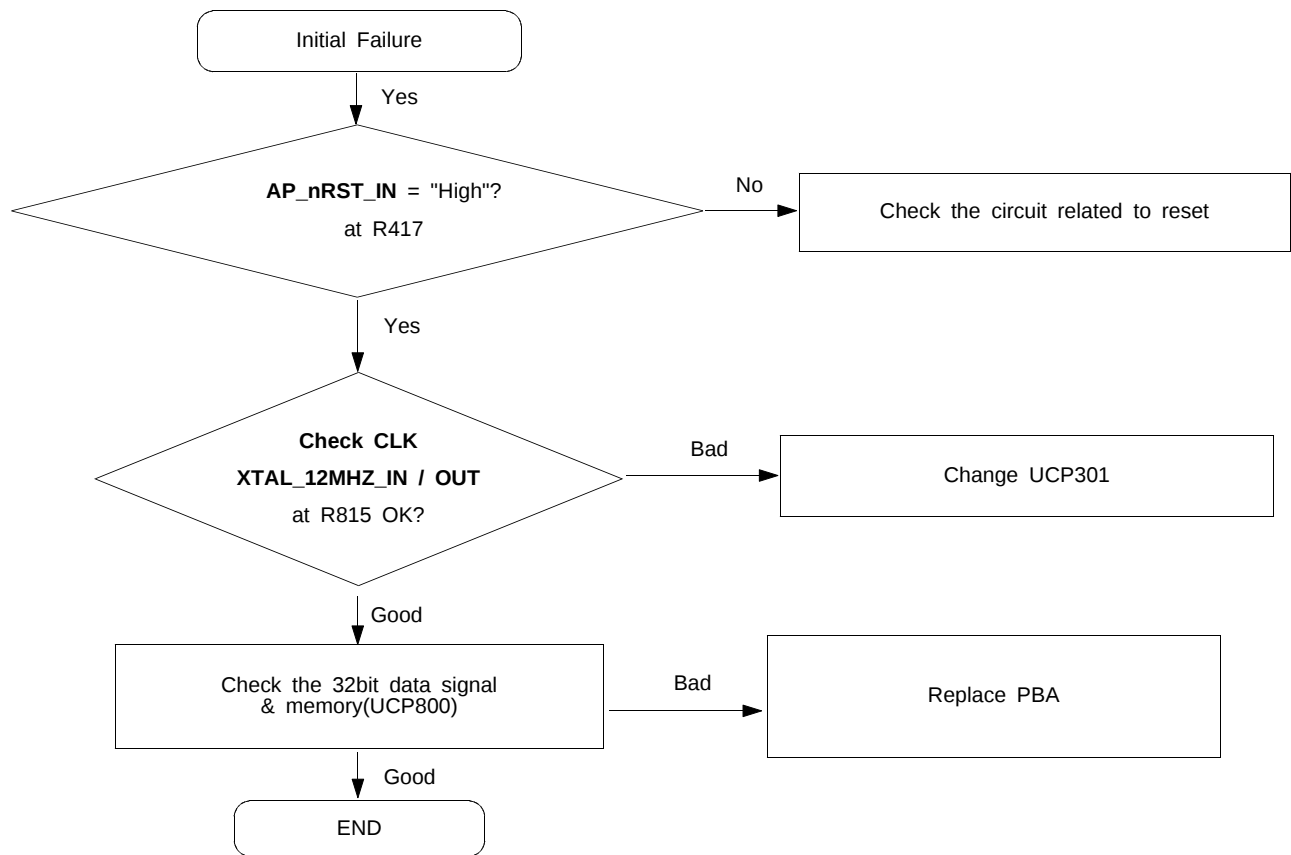
9-1-2. Phone Part

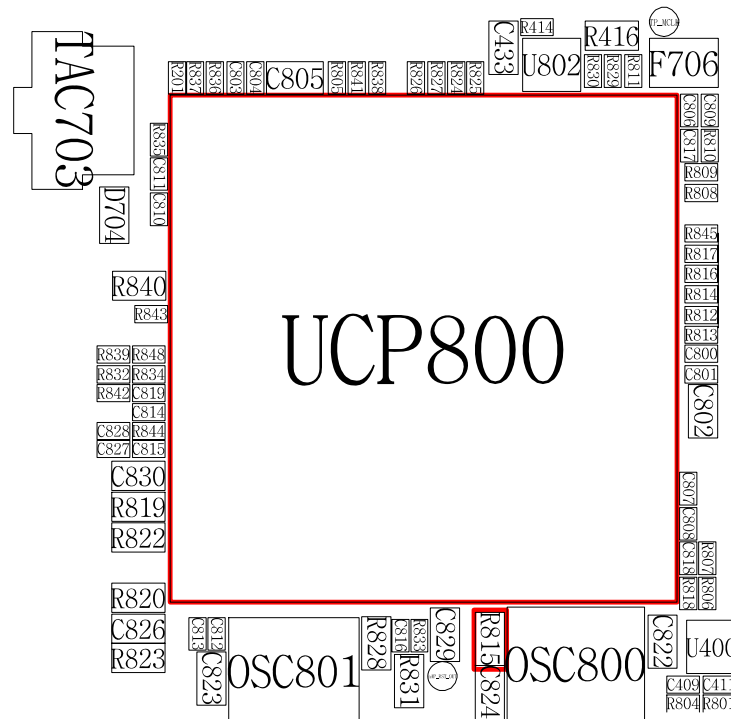
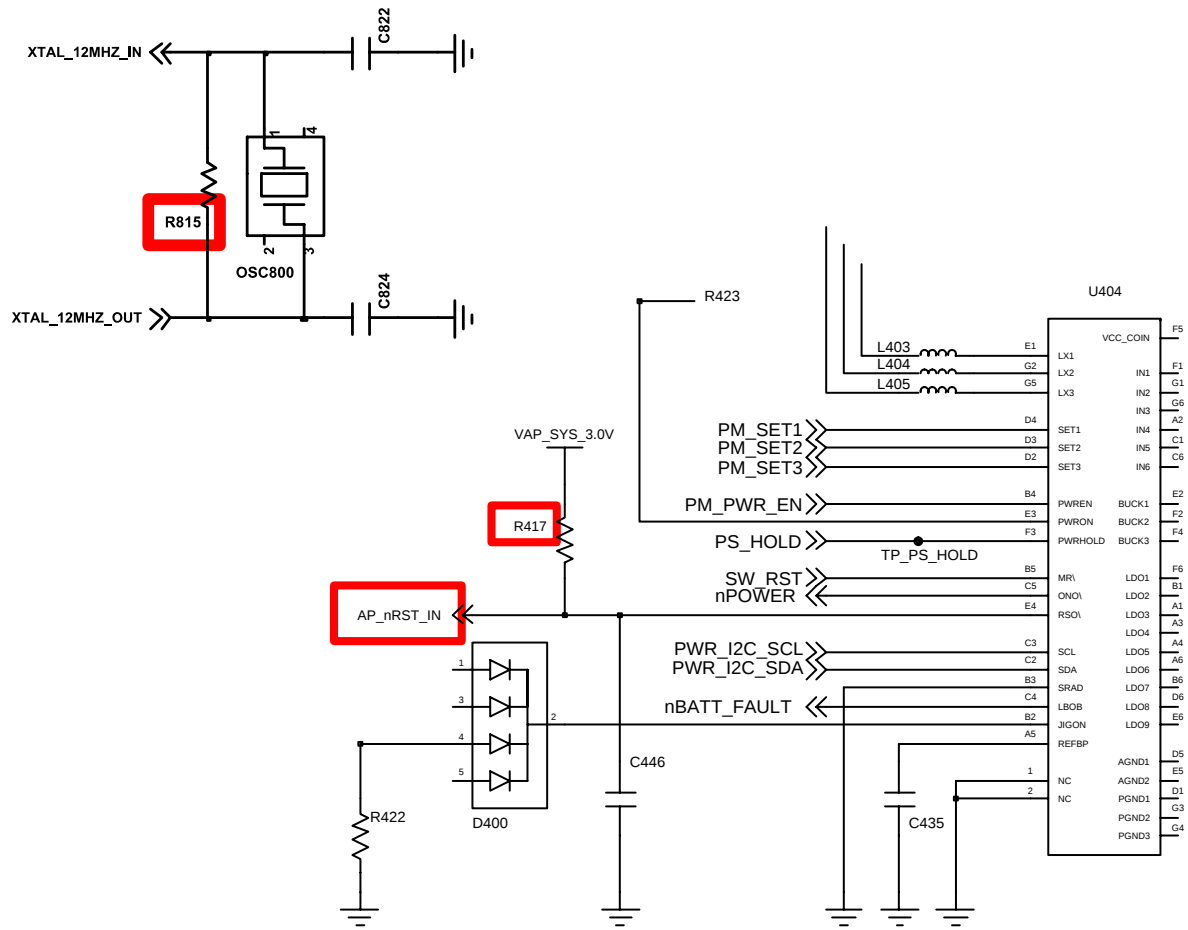




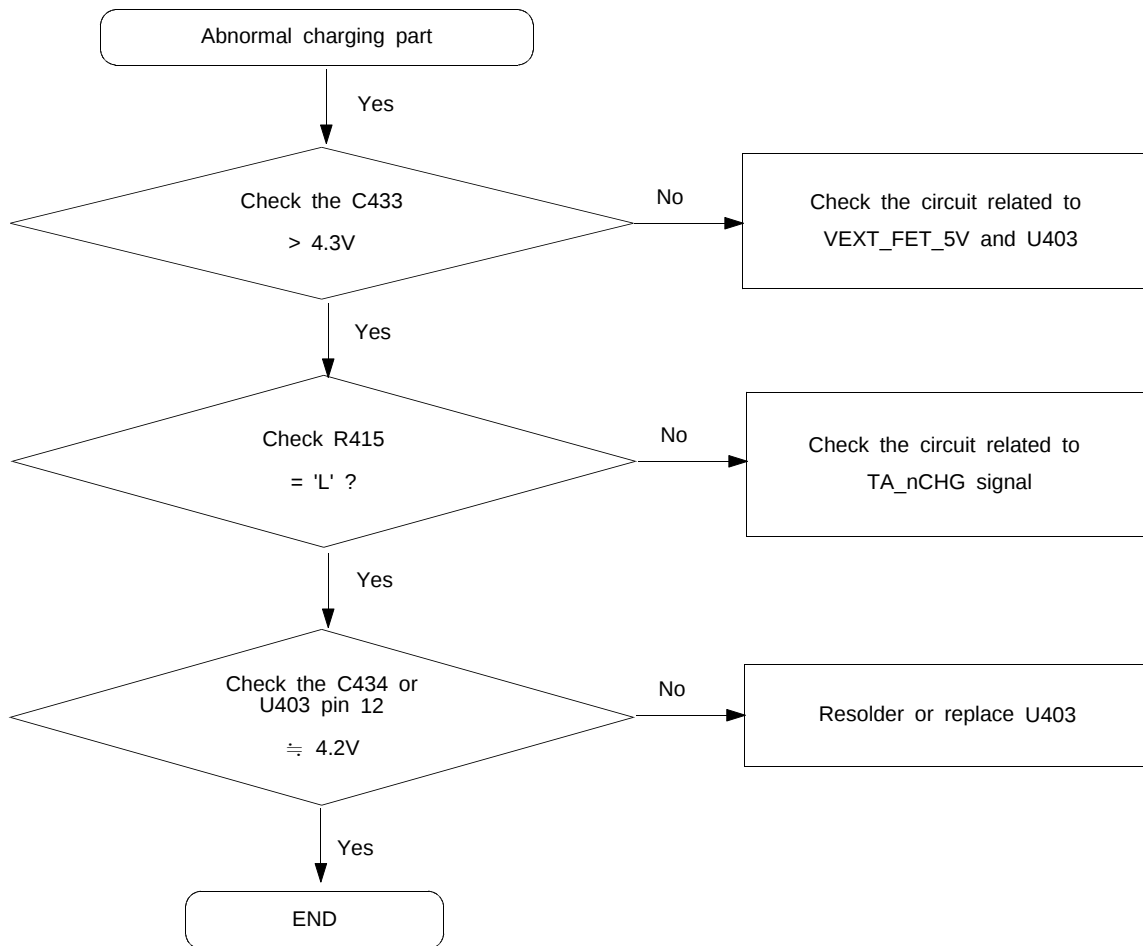


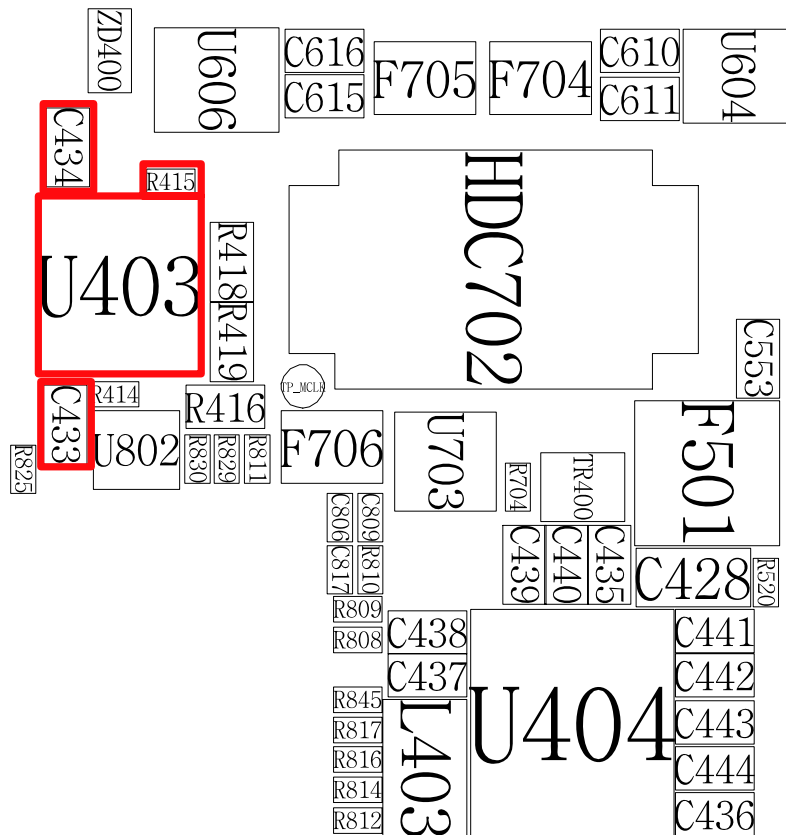
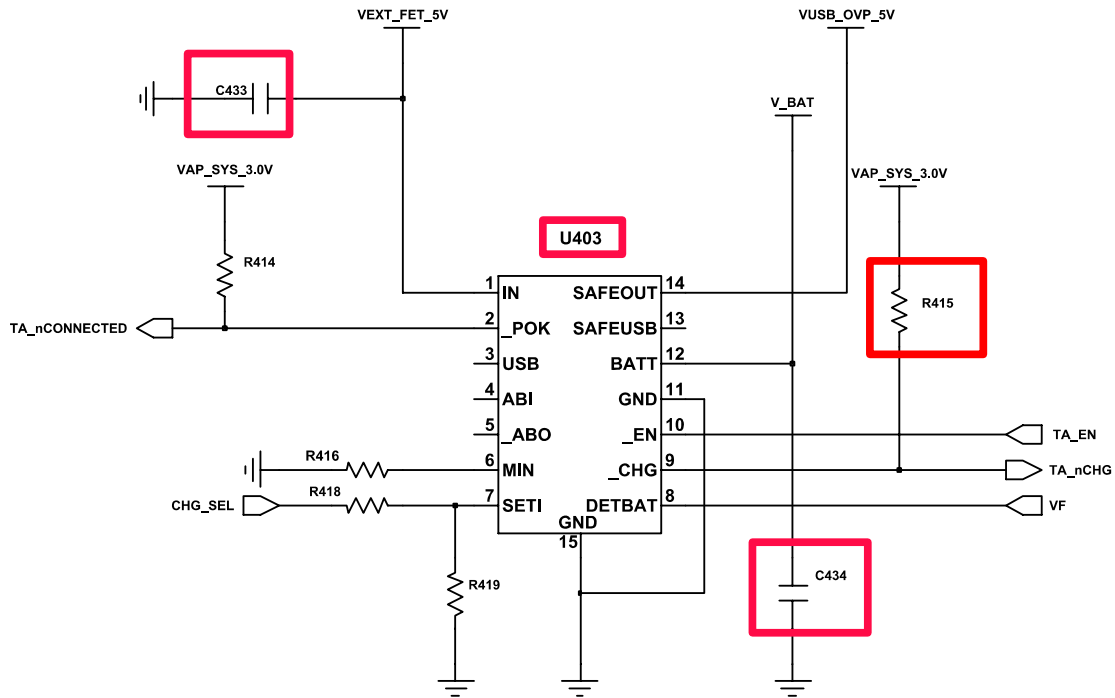
9-2. Initial



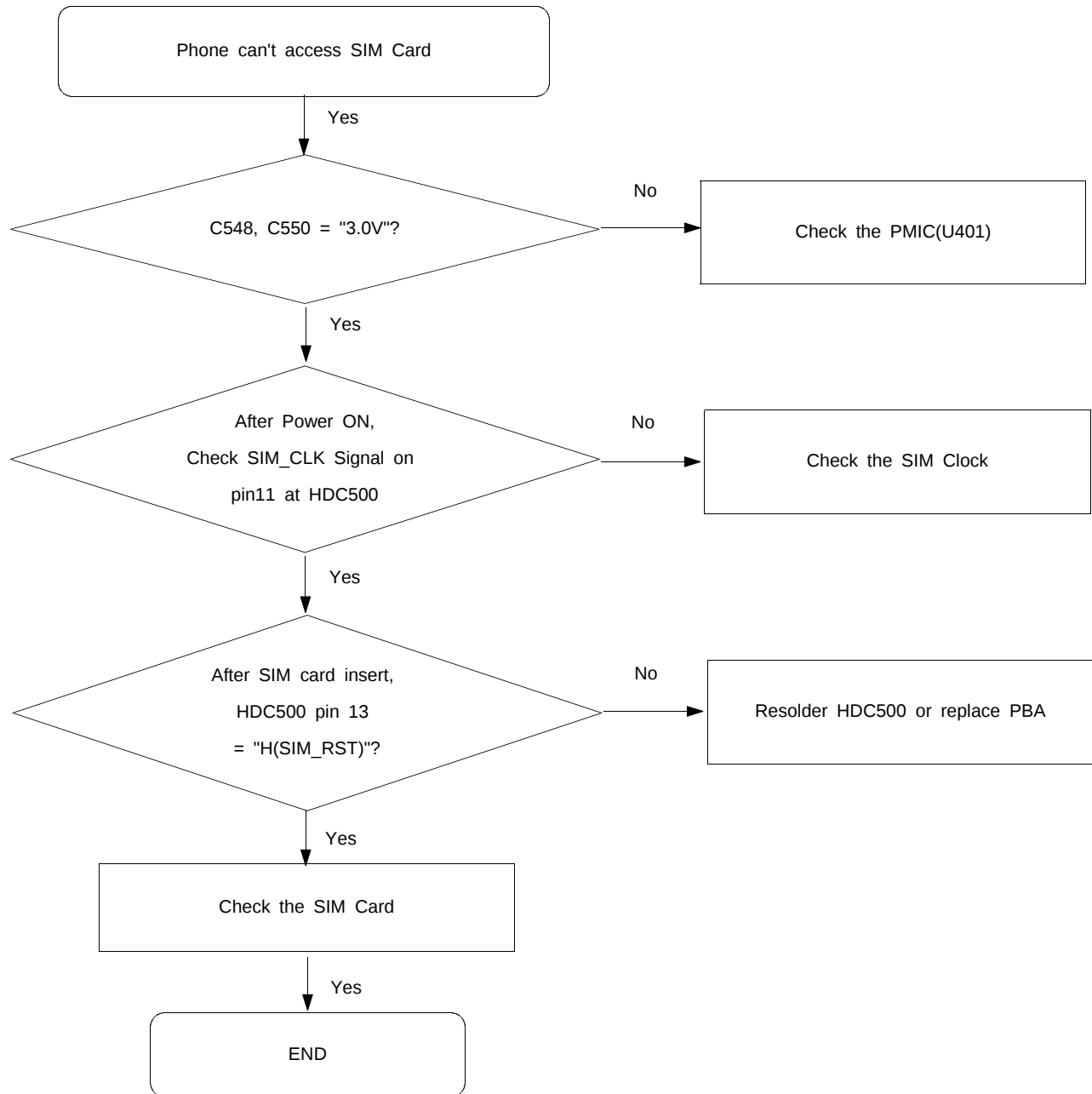


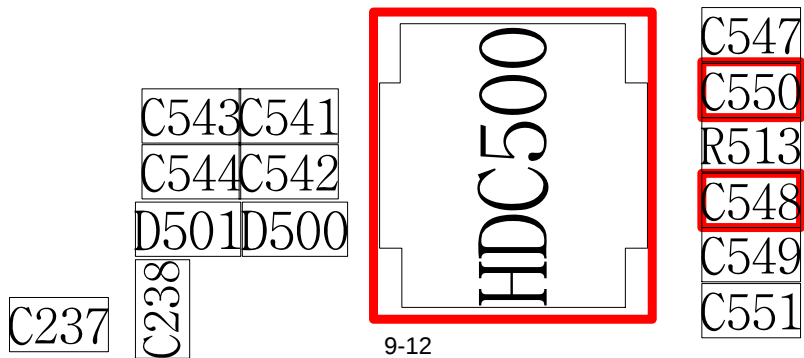
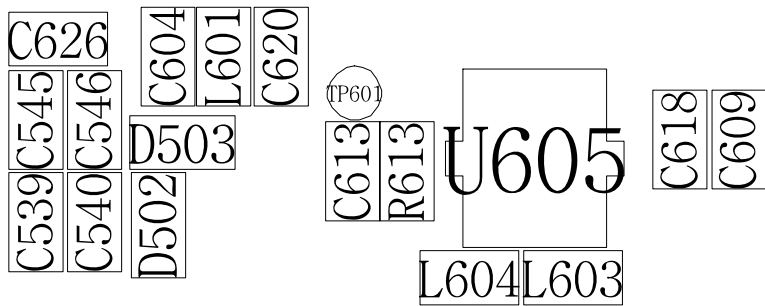
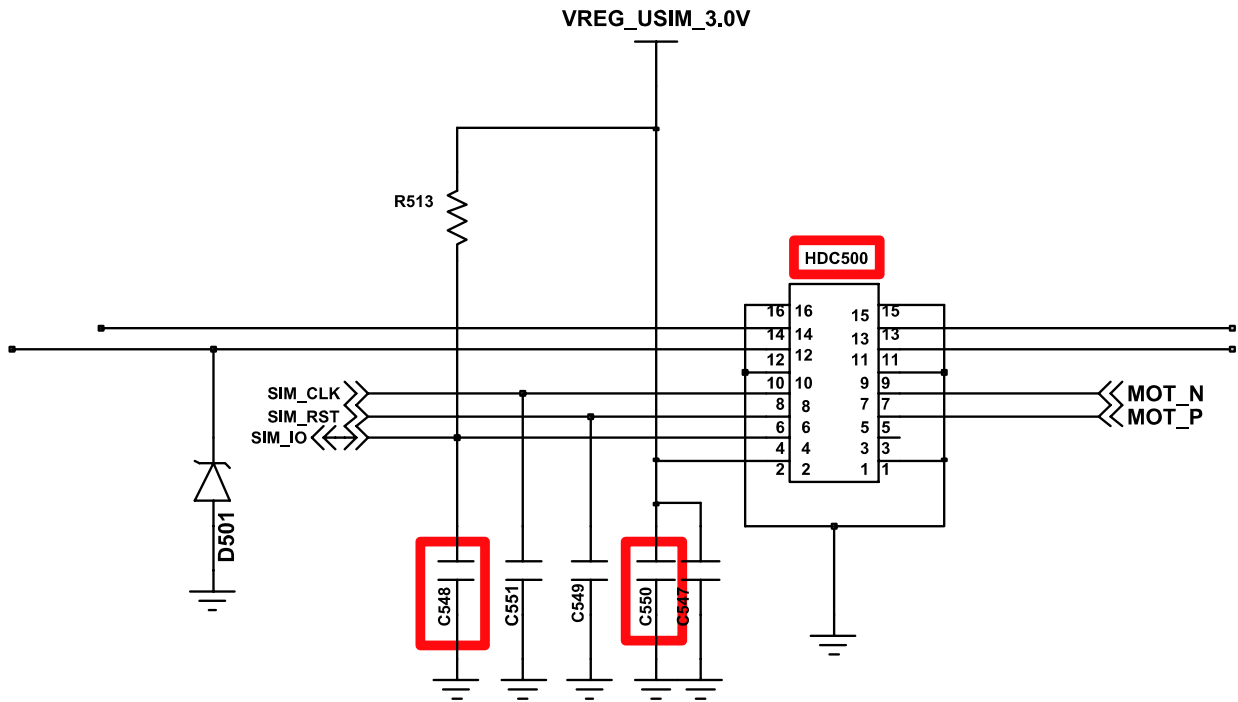
9-3. Charging Part



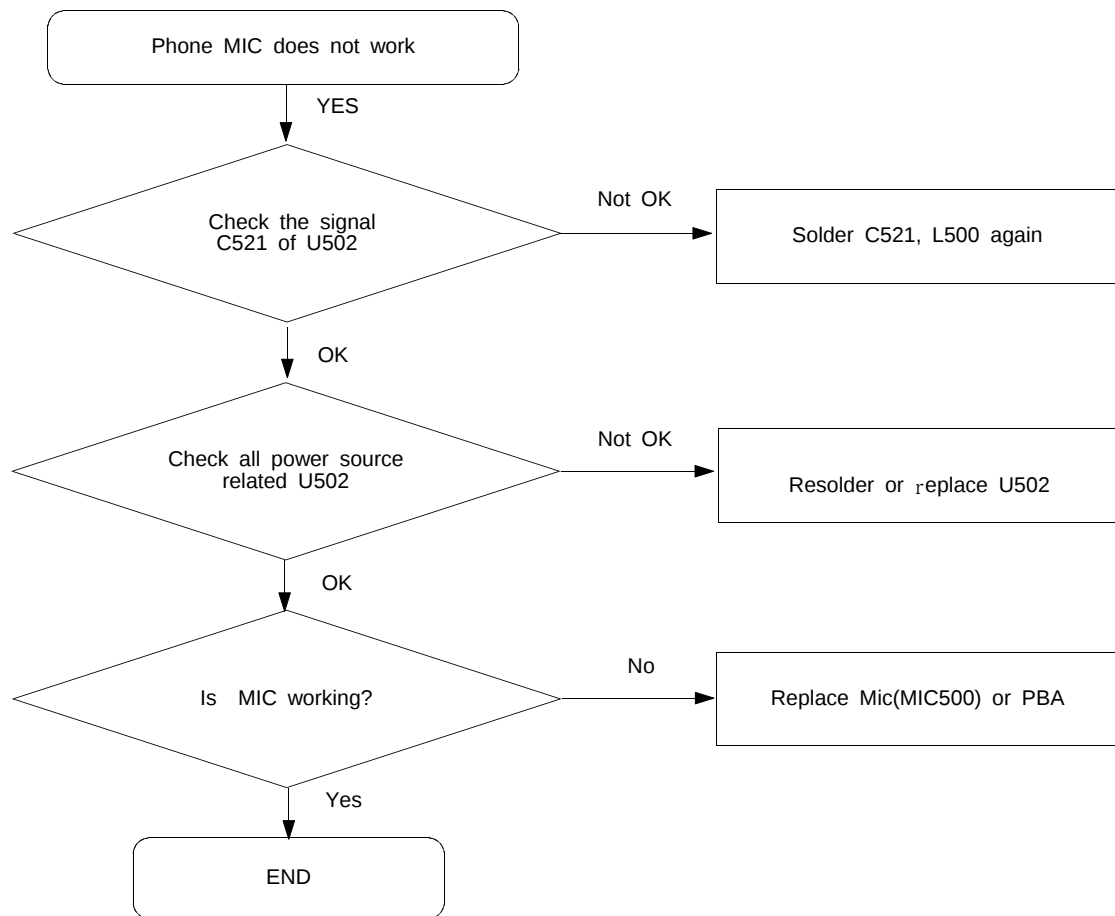


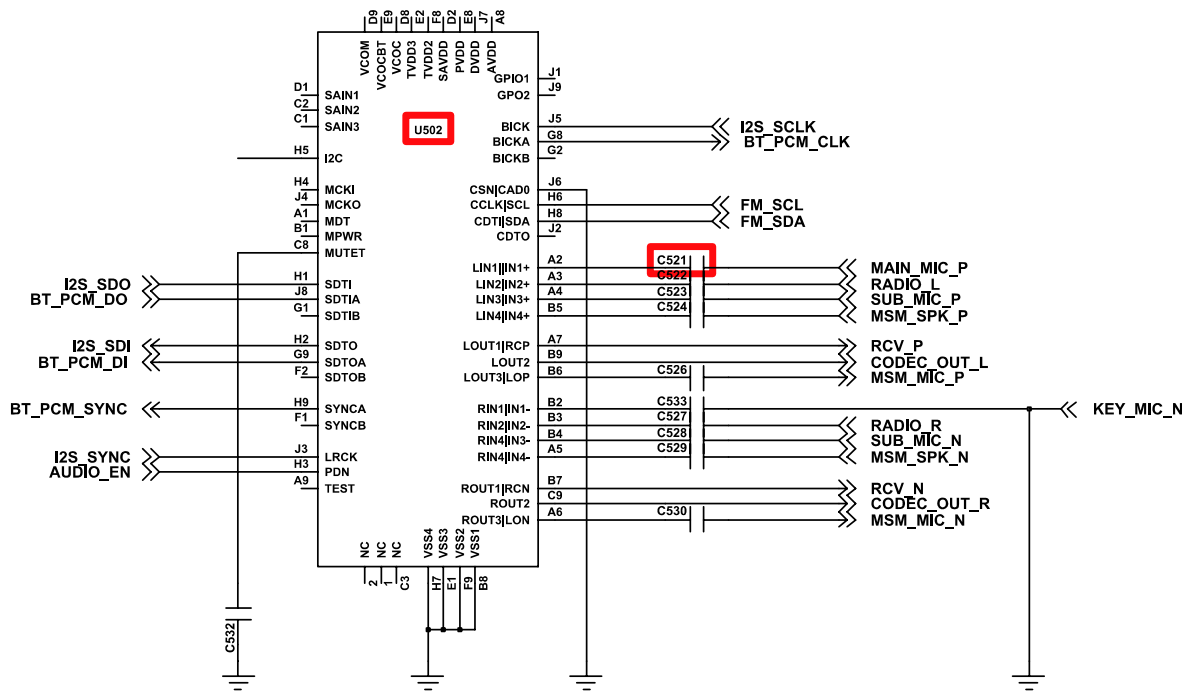
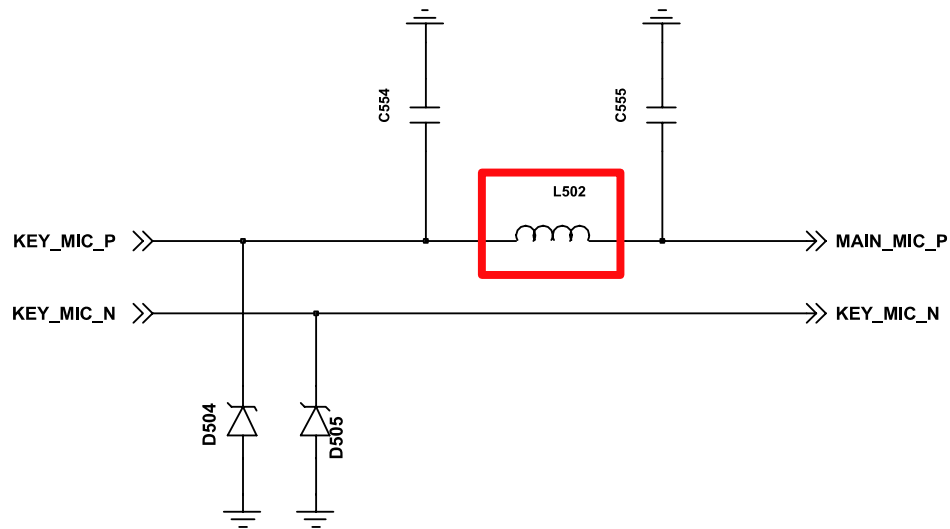
9-4. Sim Part

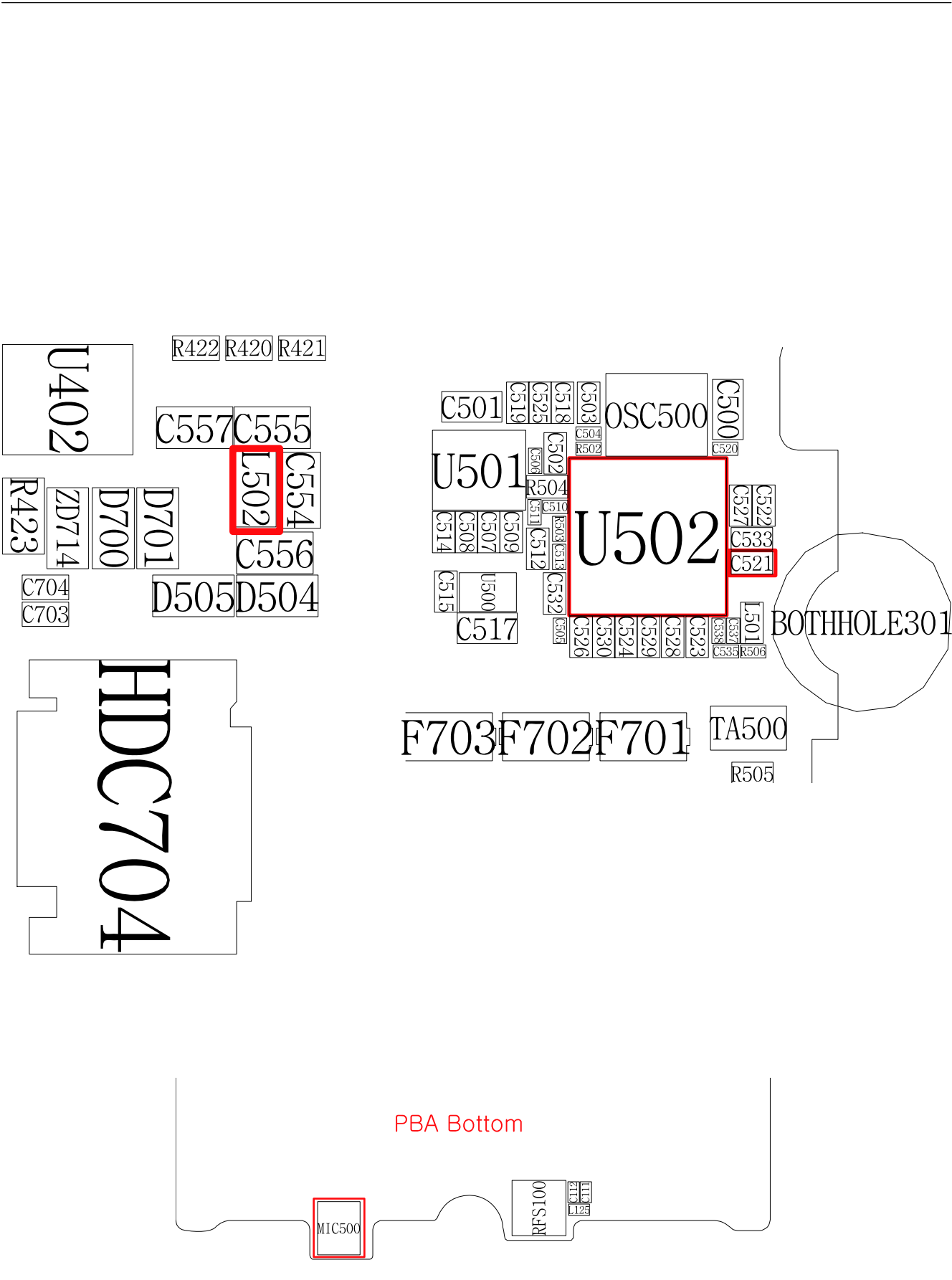




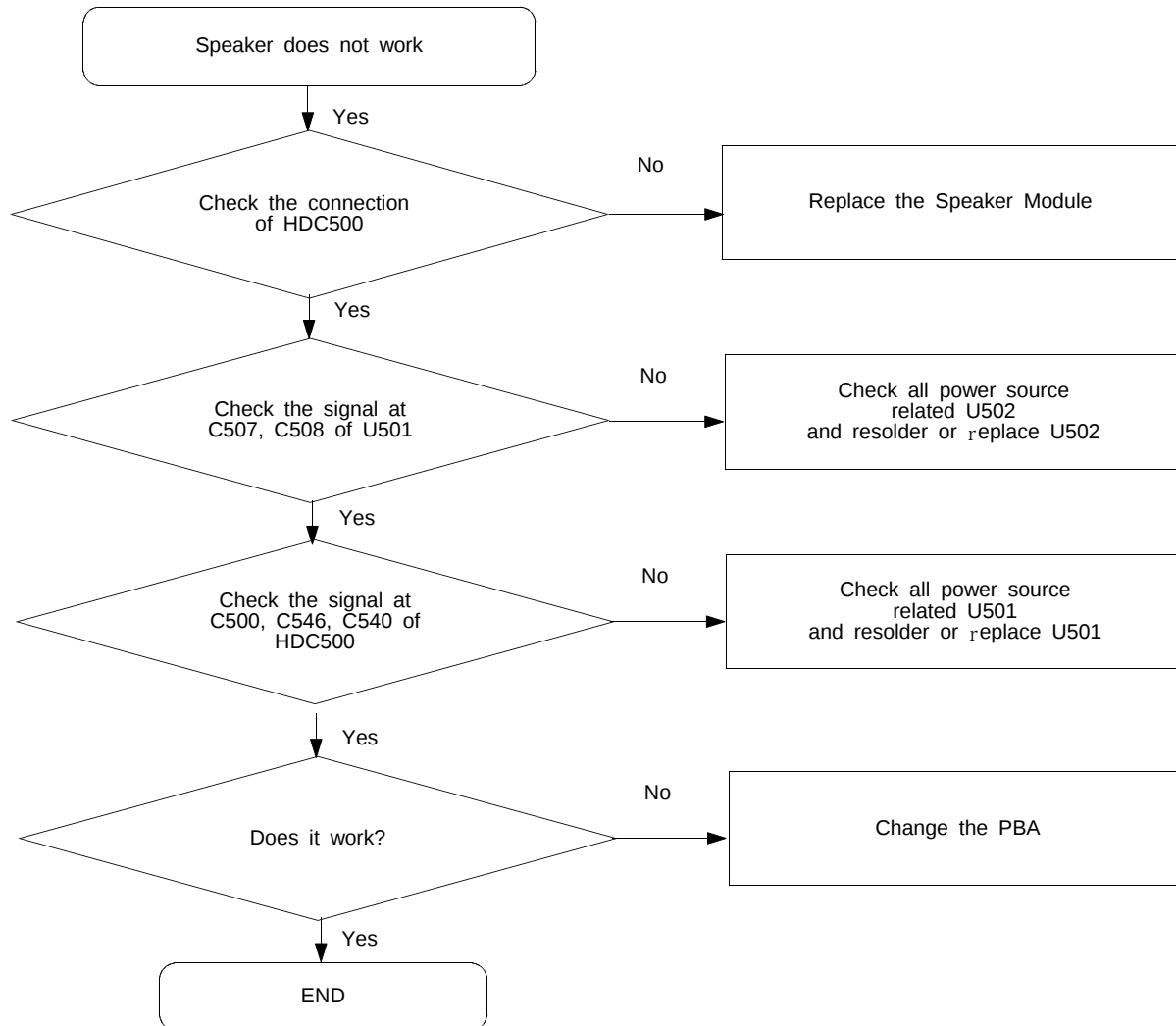
9-5. Microphone Part

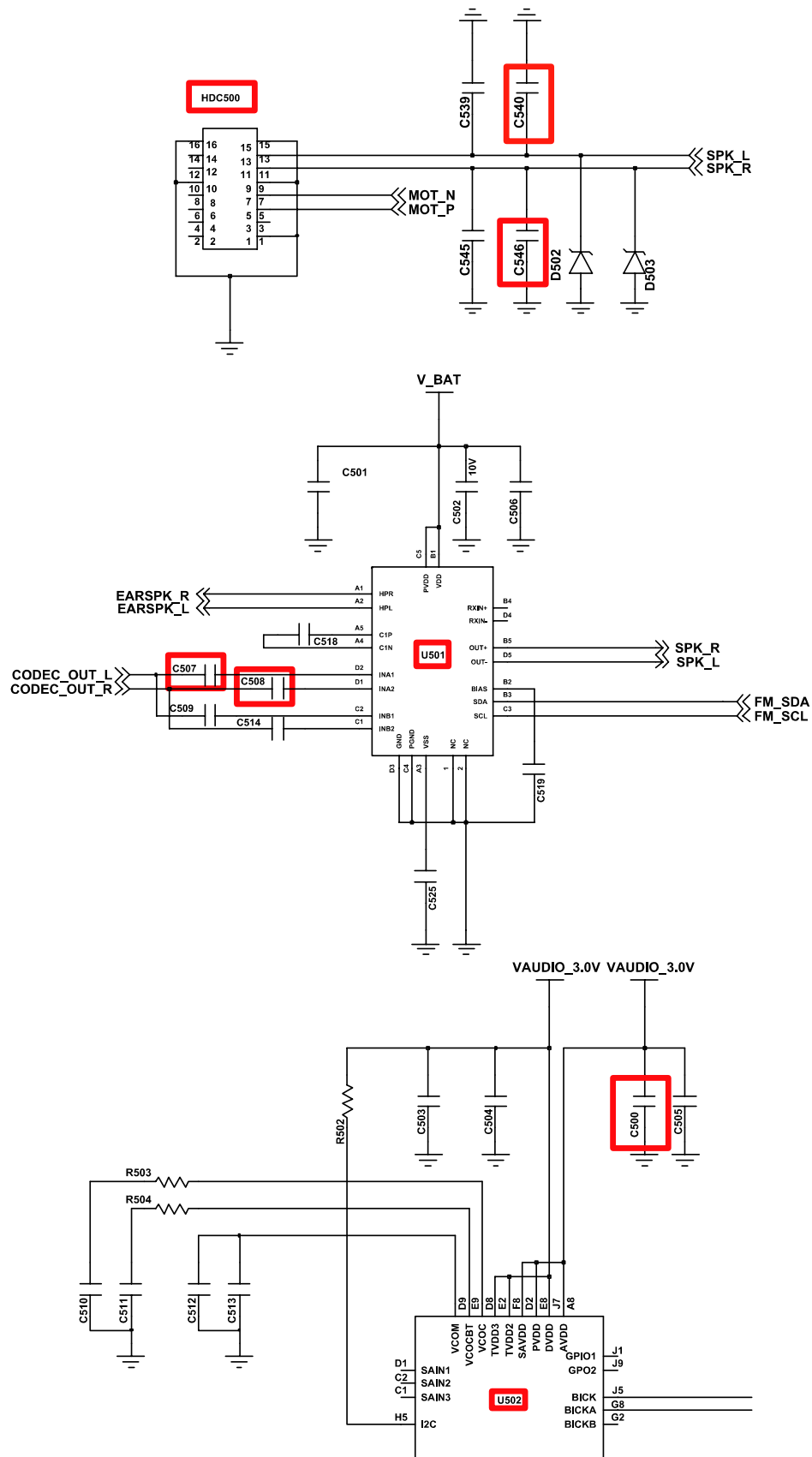


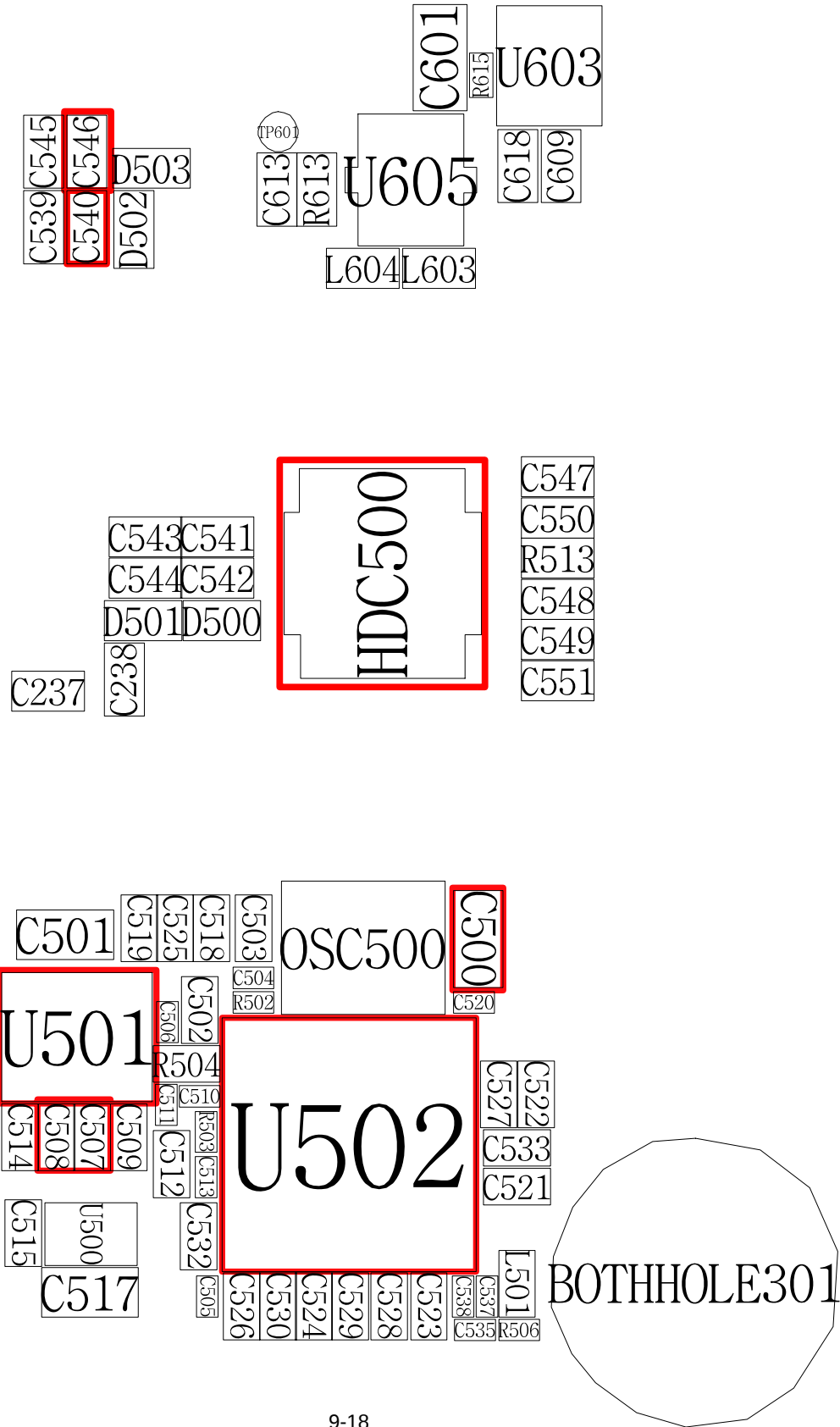




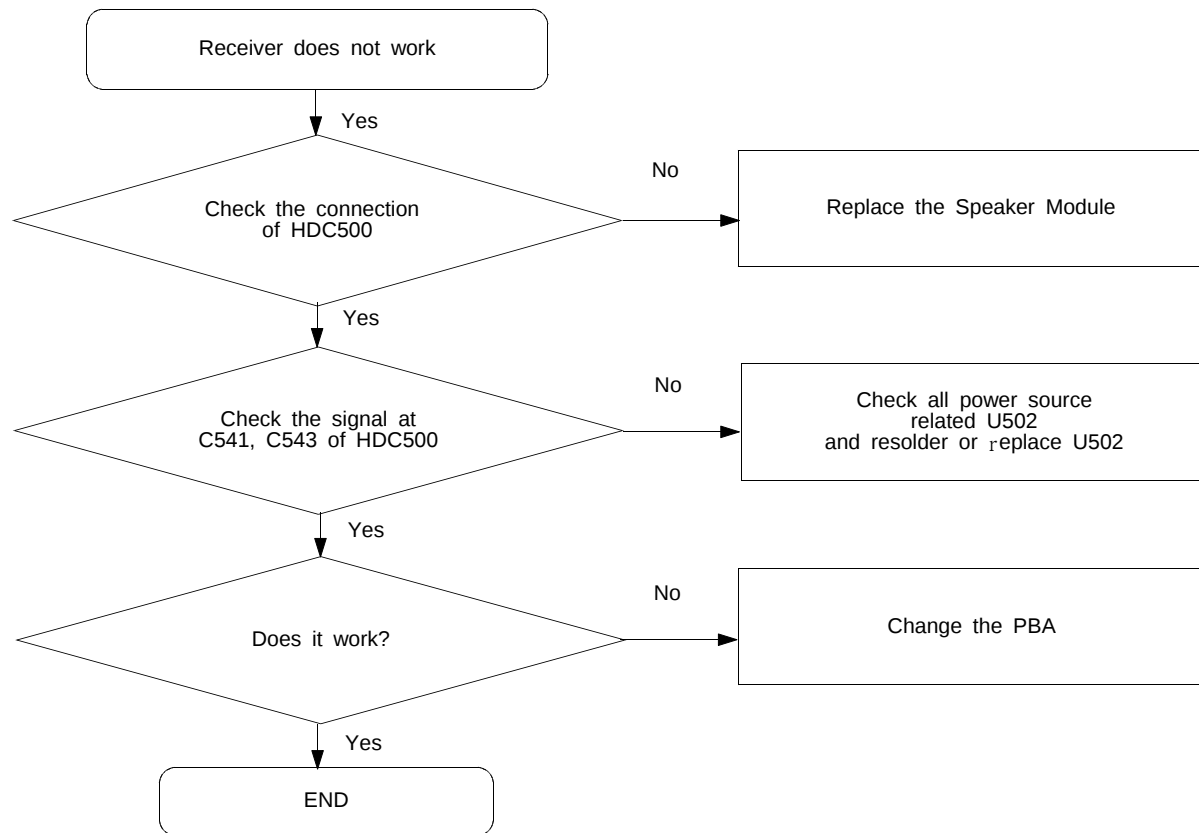
9-6. Speaker Part(Melody)

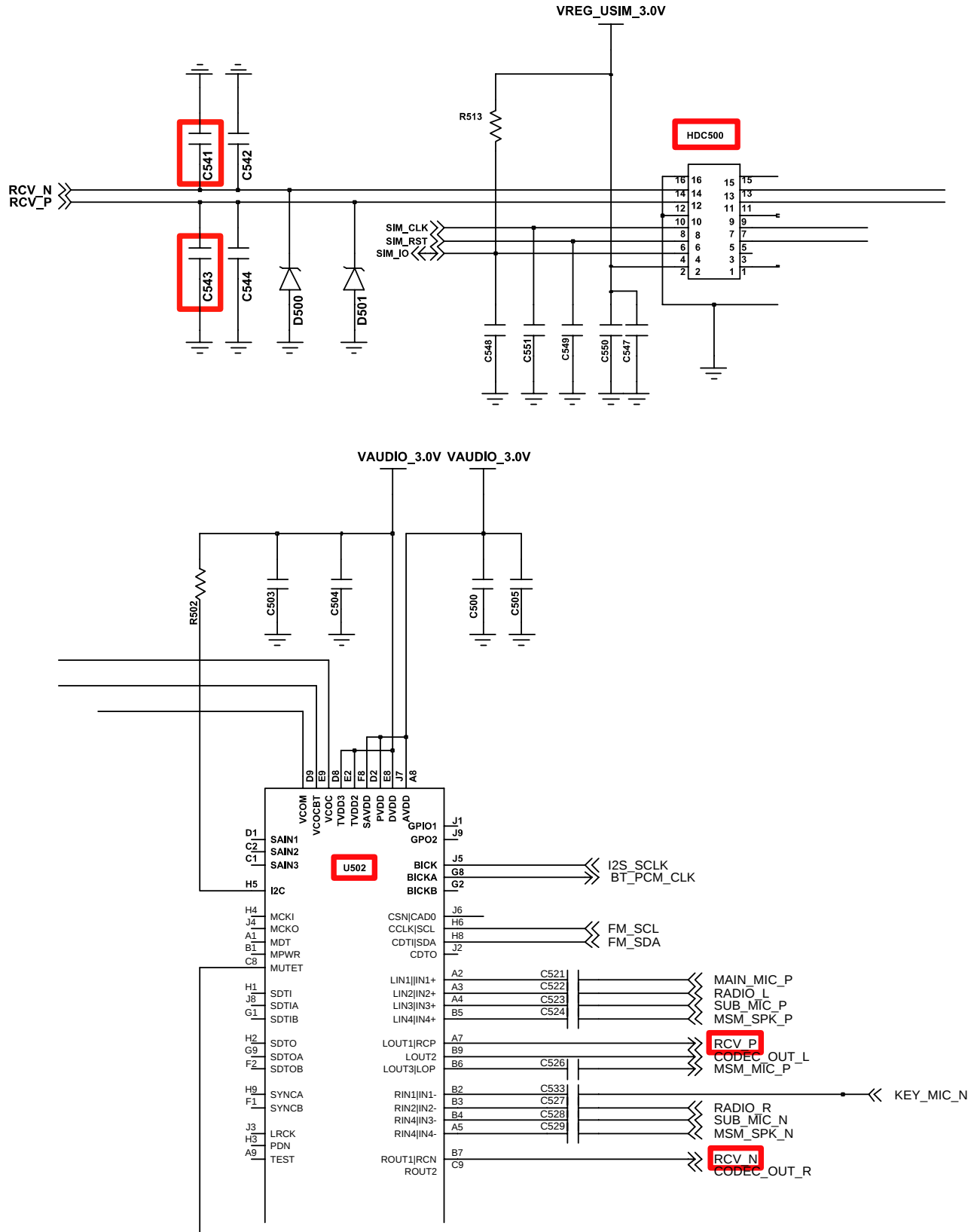


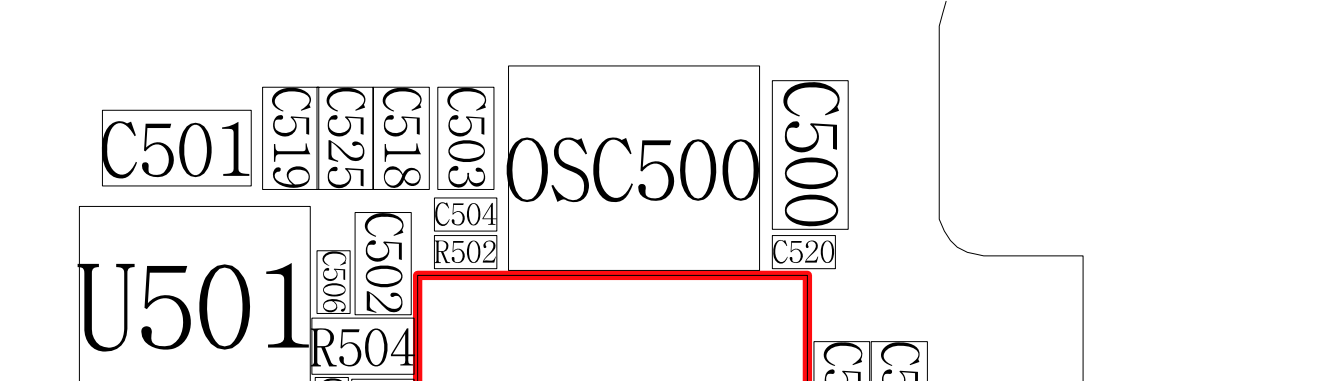




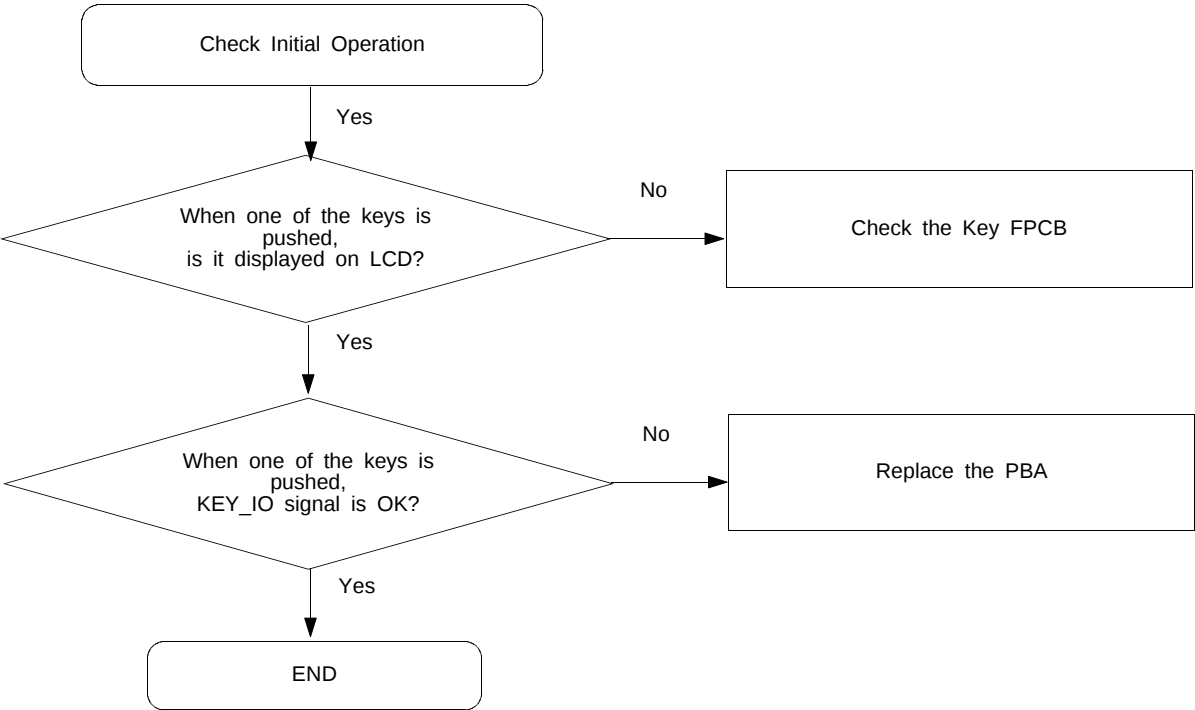
9-7. Receiver Part

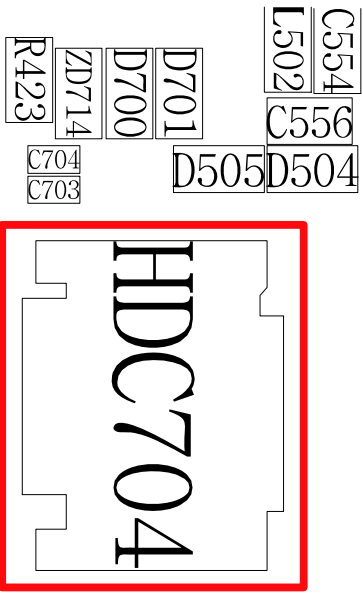
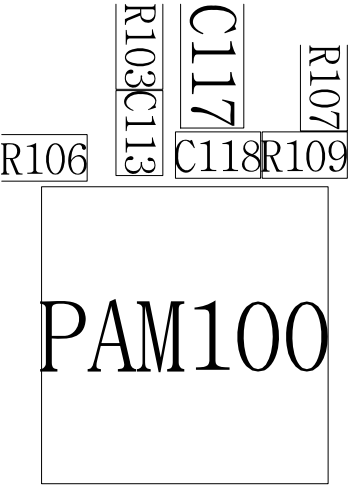
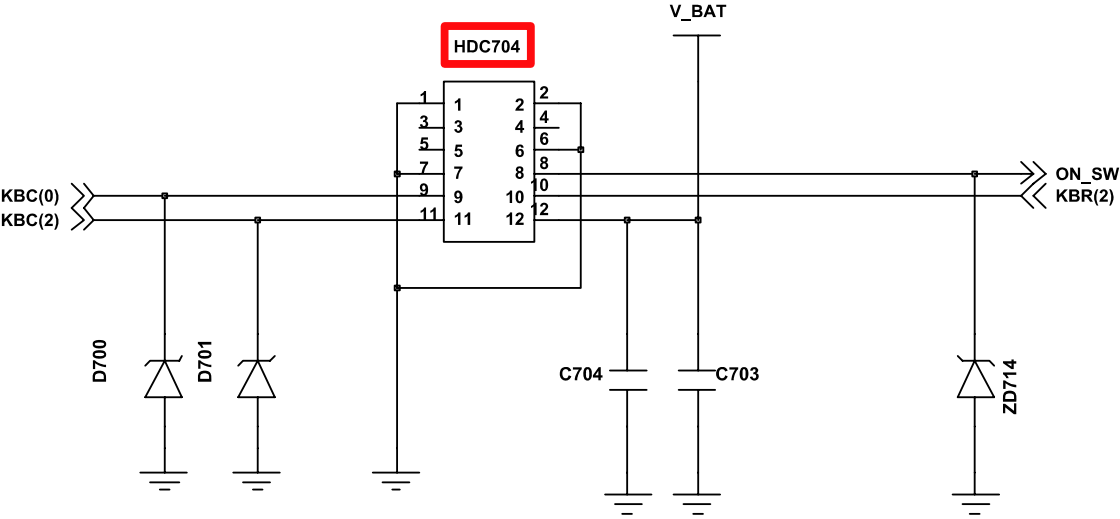




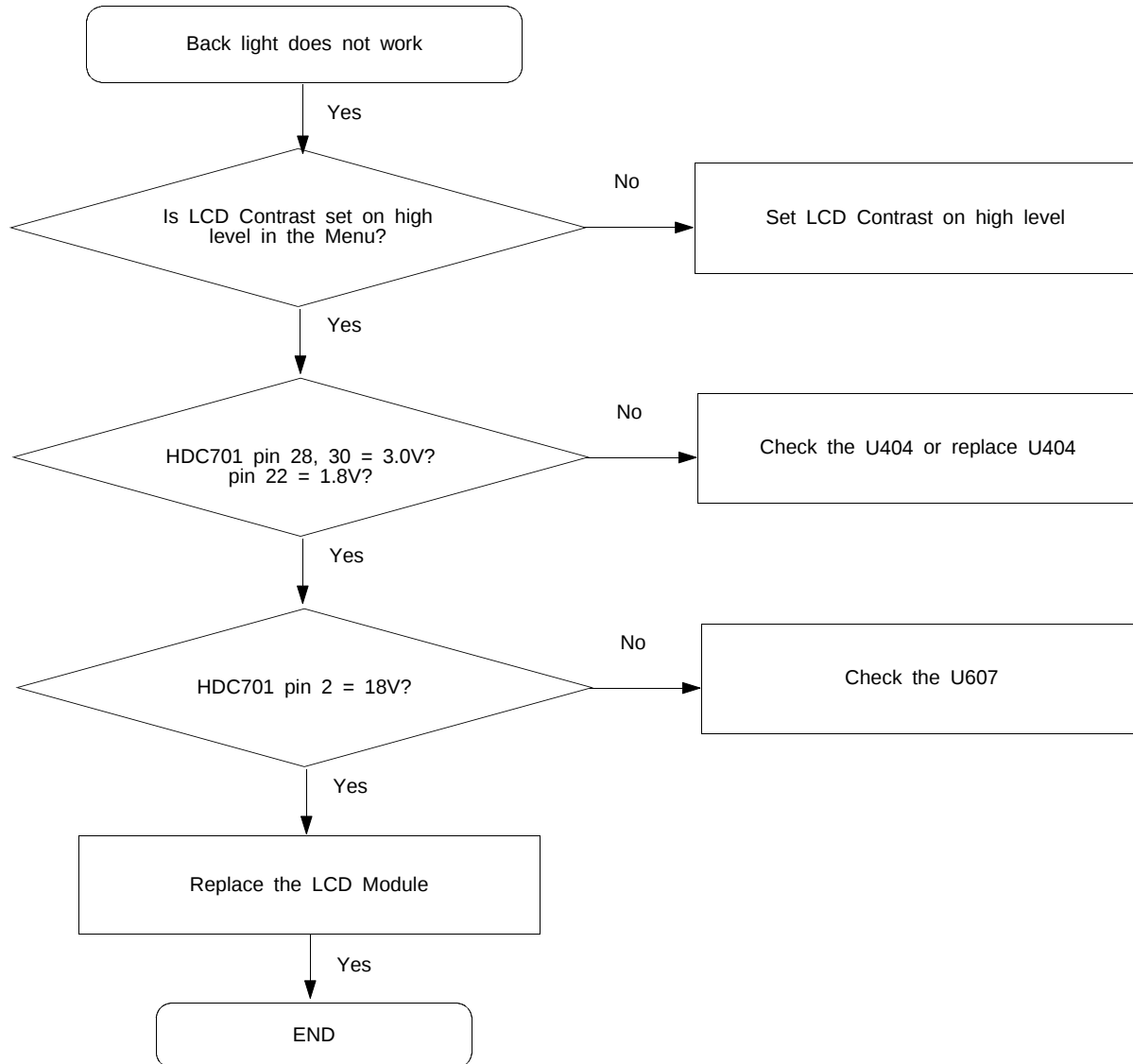


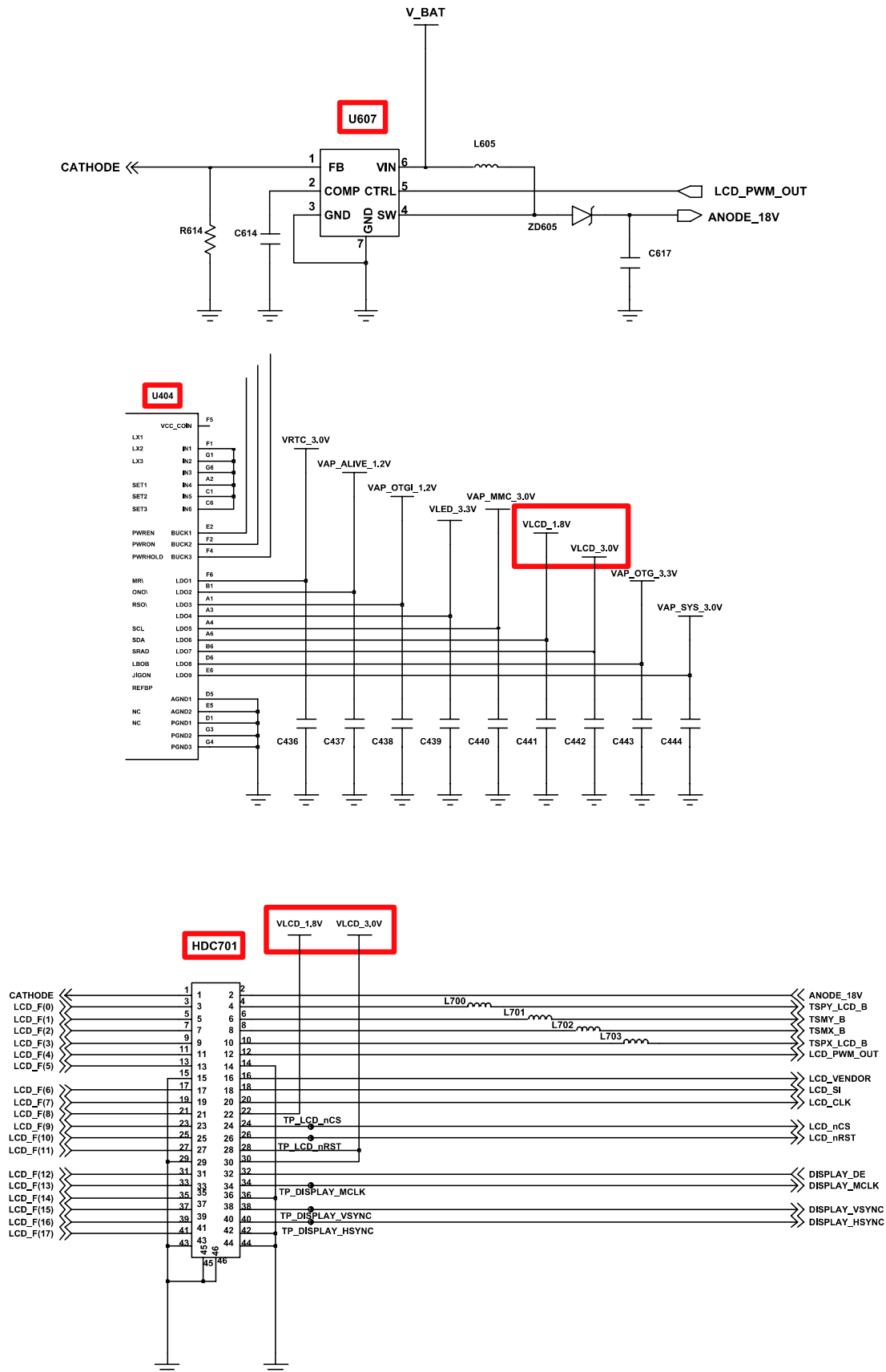
9-8. Key Data Input

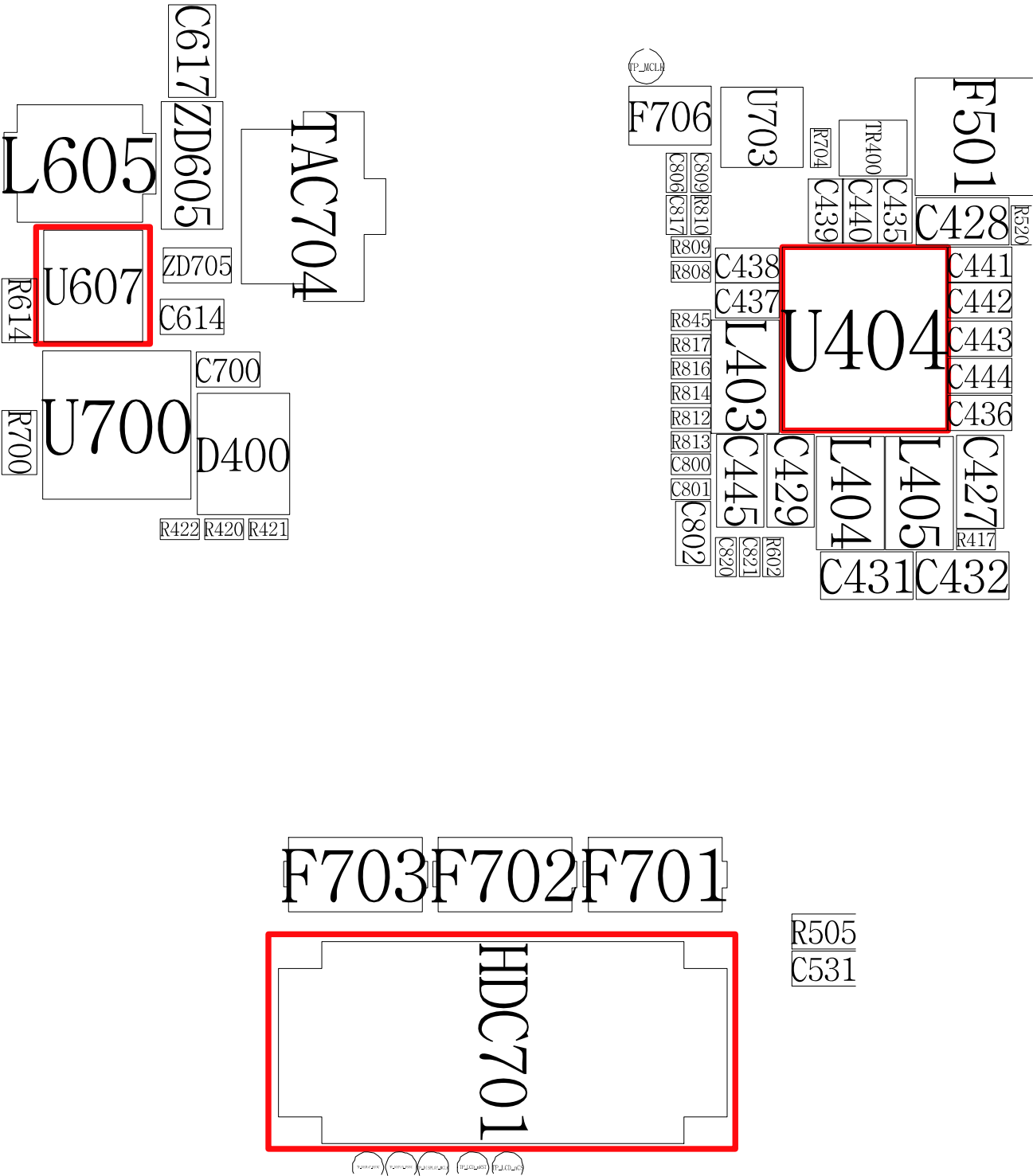




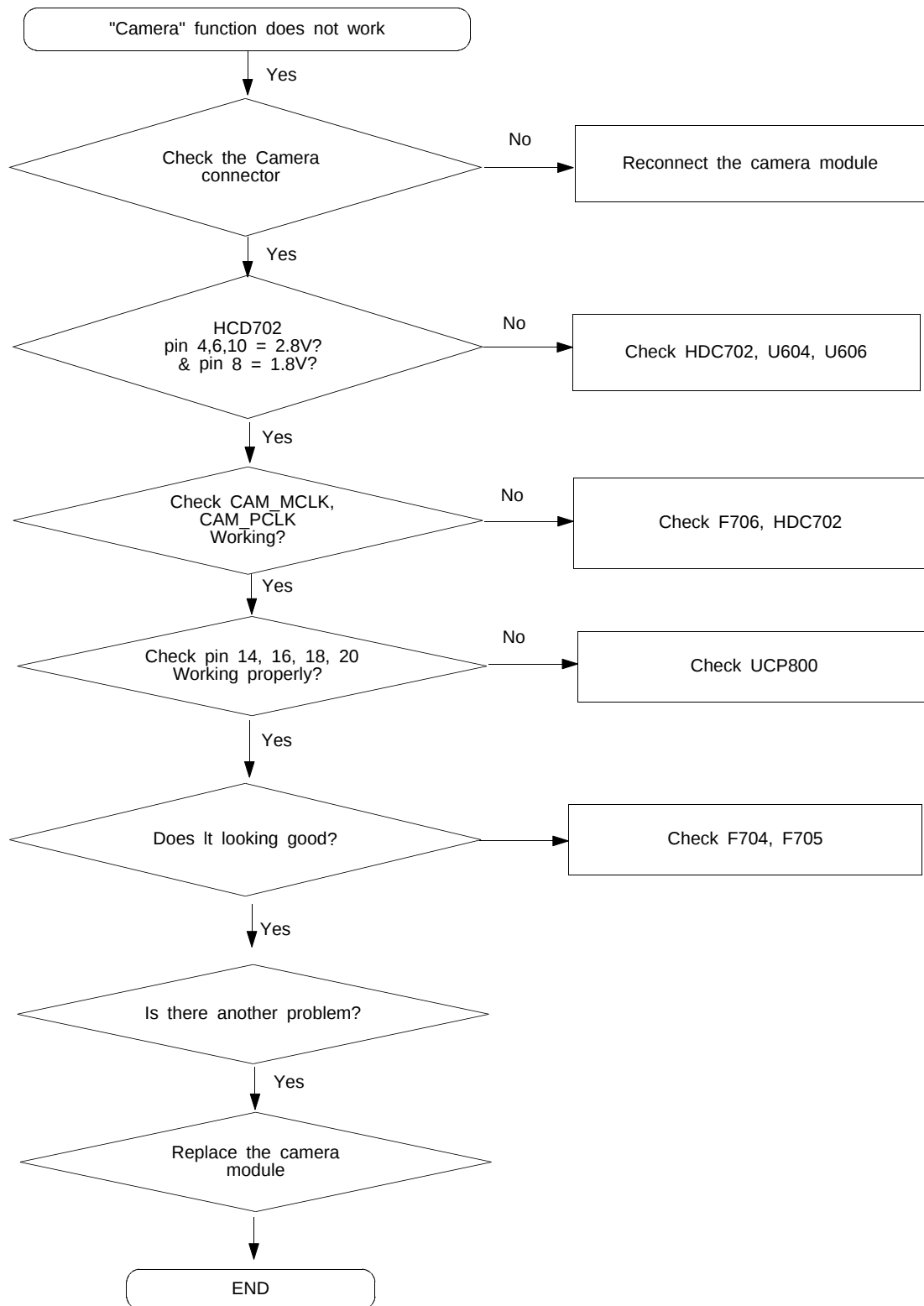
9-9. Back Light (for Color Main LCD)

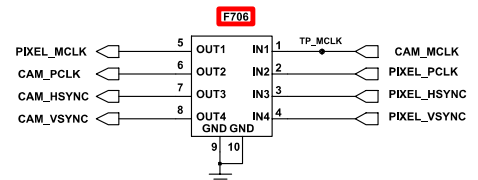
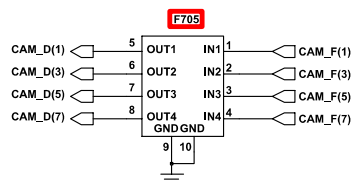
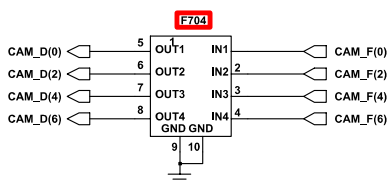
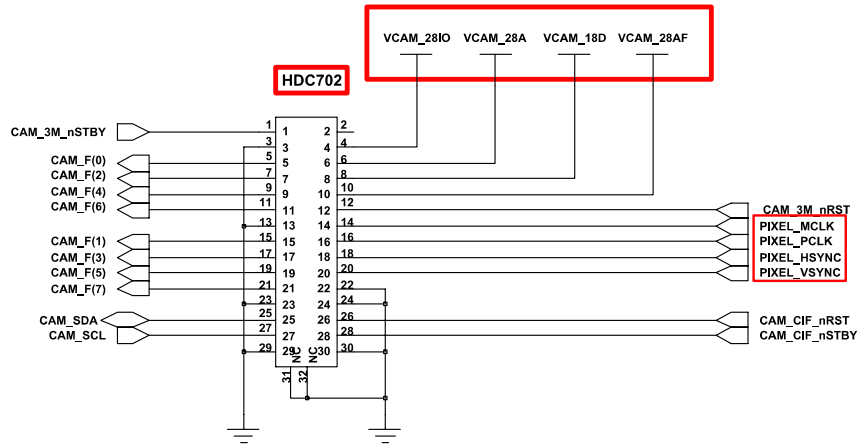
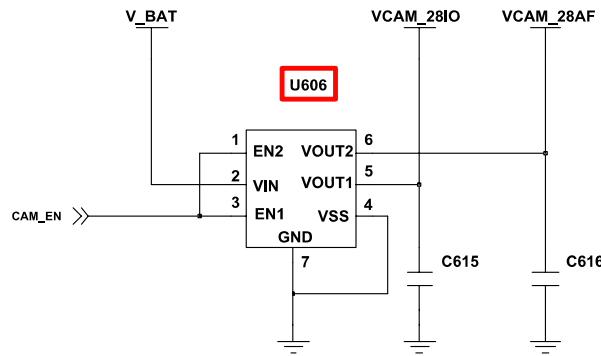
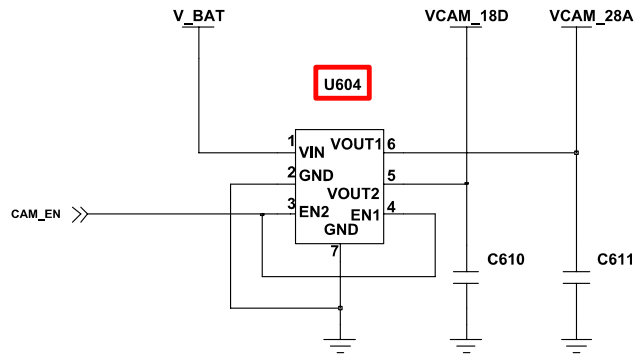


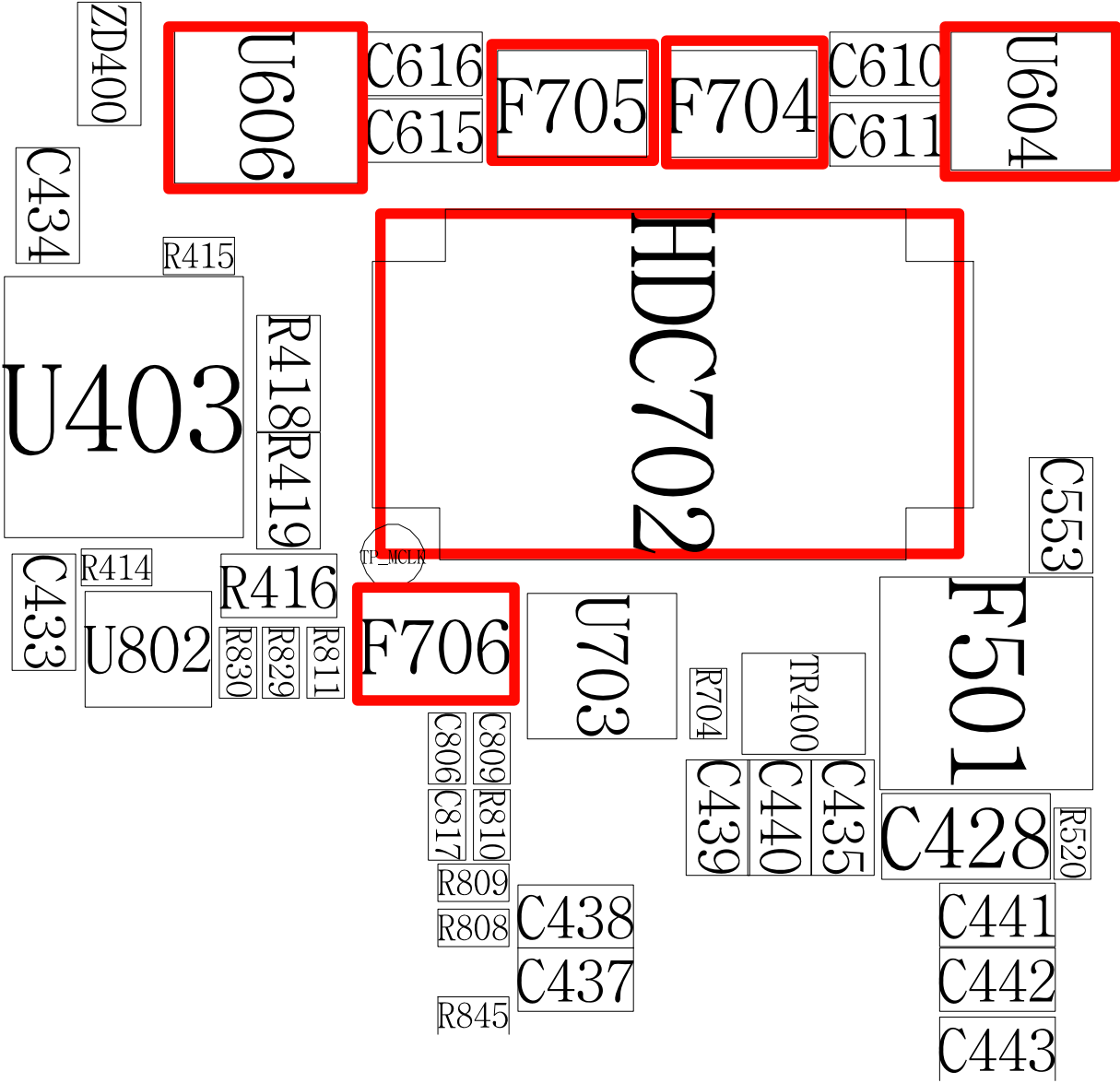




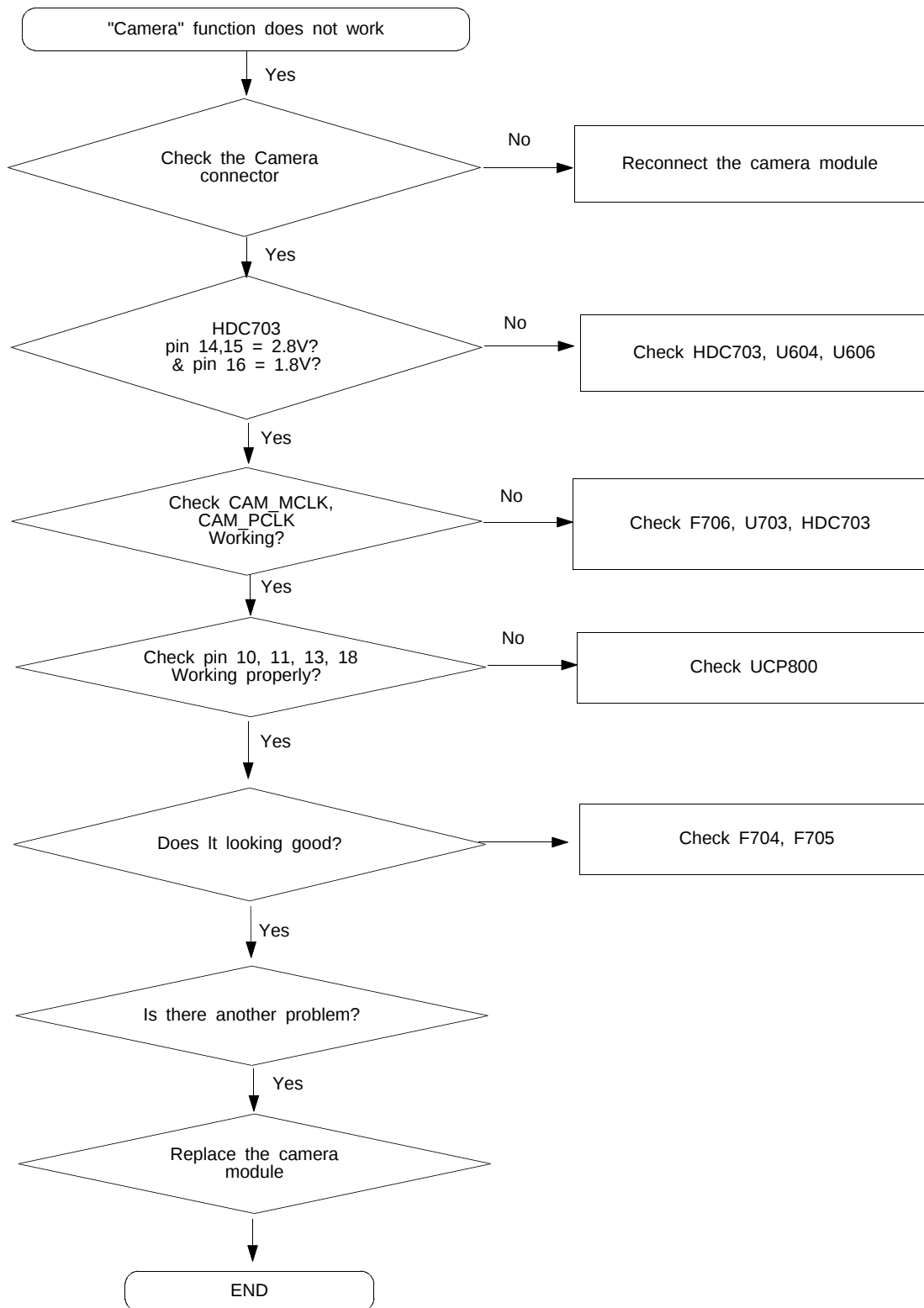
9-10. Camera part (3.2M CAMERA)

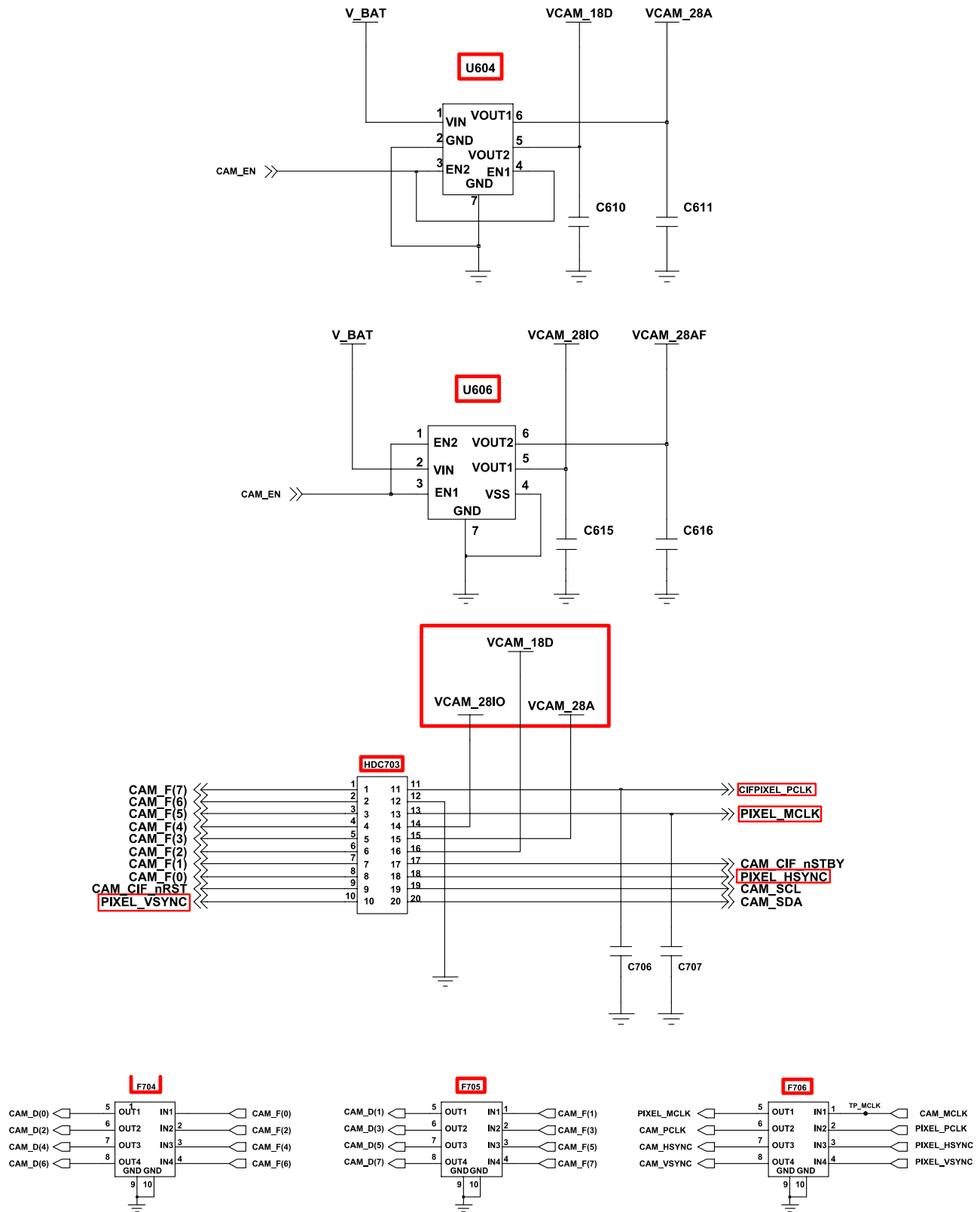


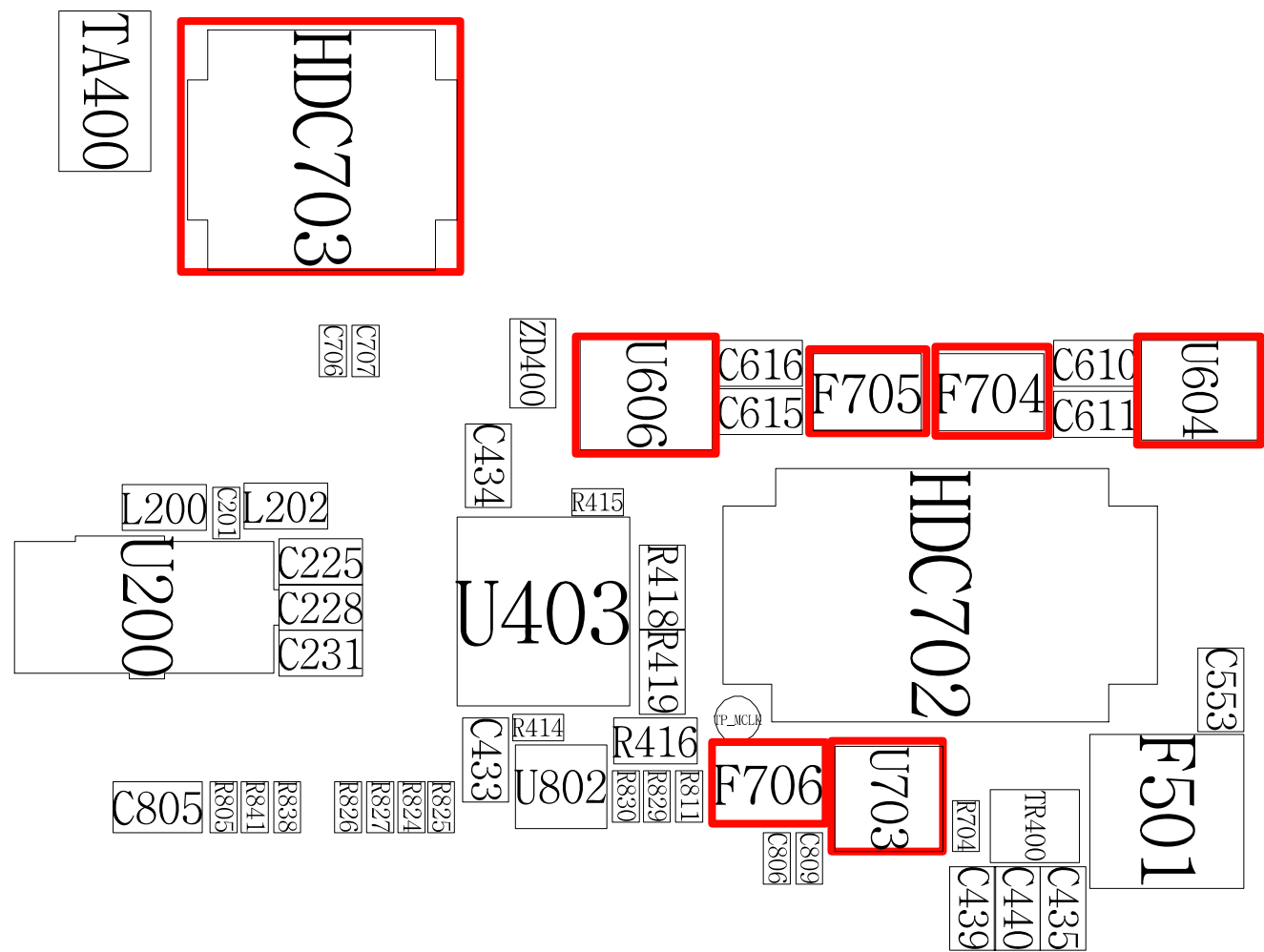




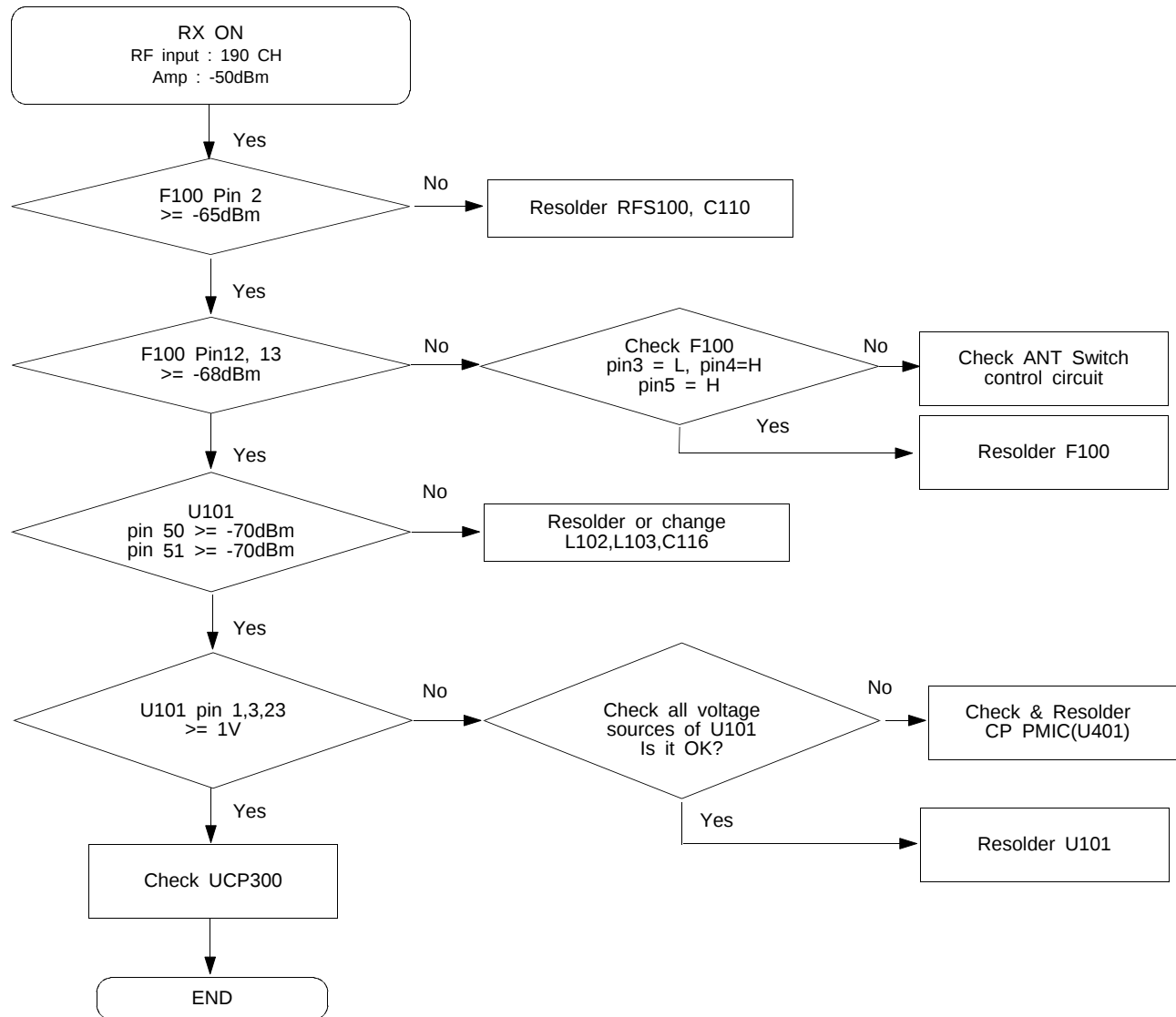
9-10. Camera part (CIF CAMERA)

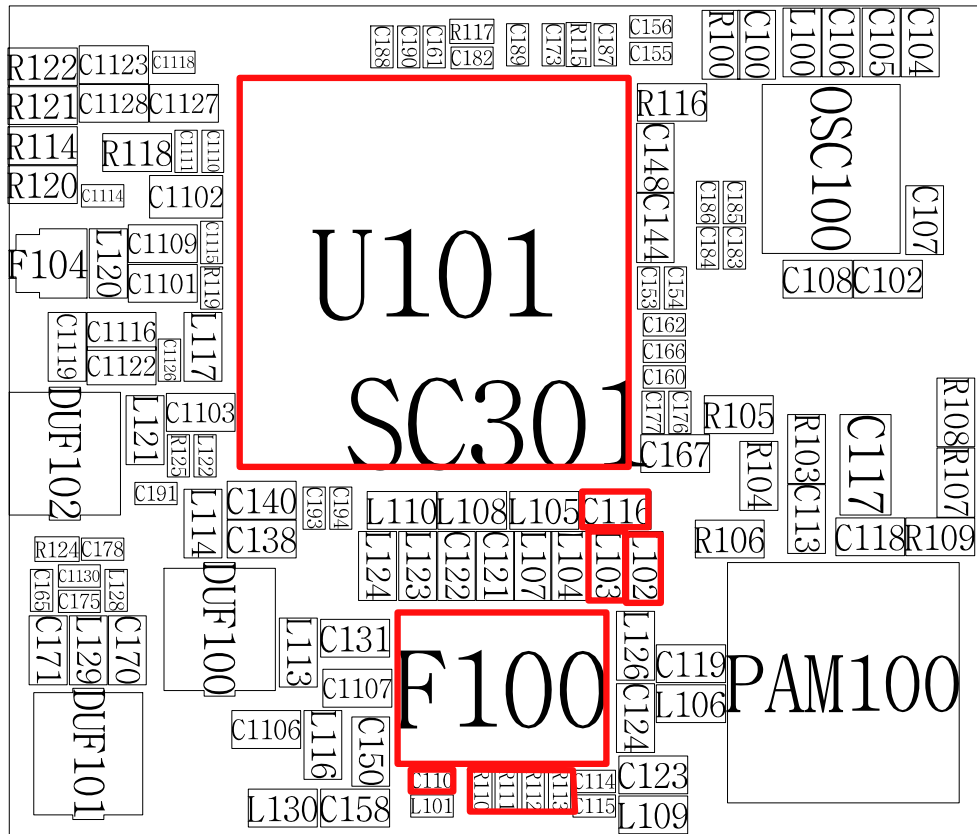
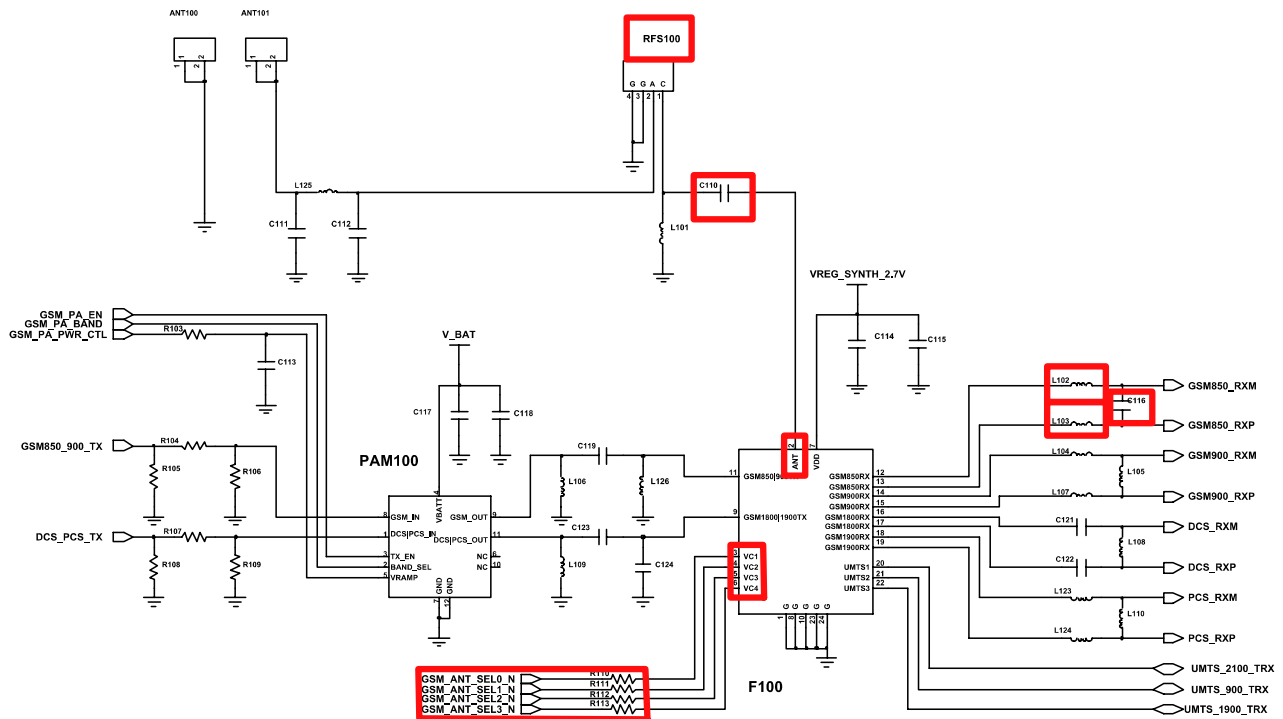




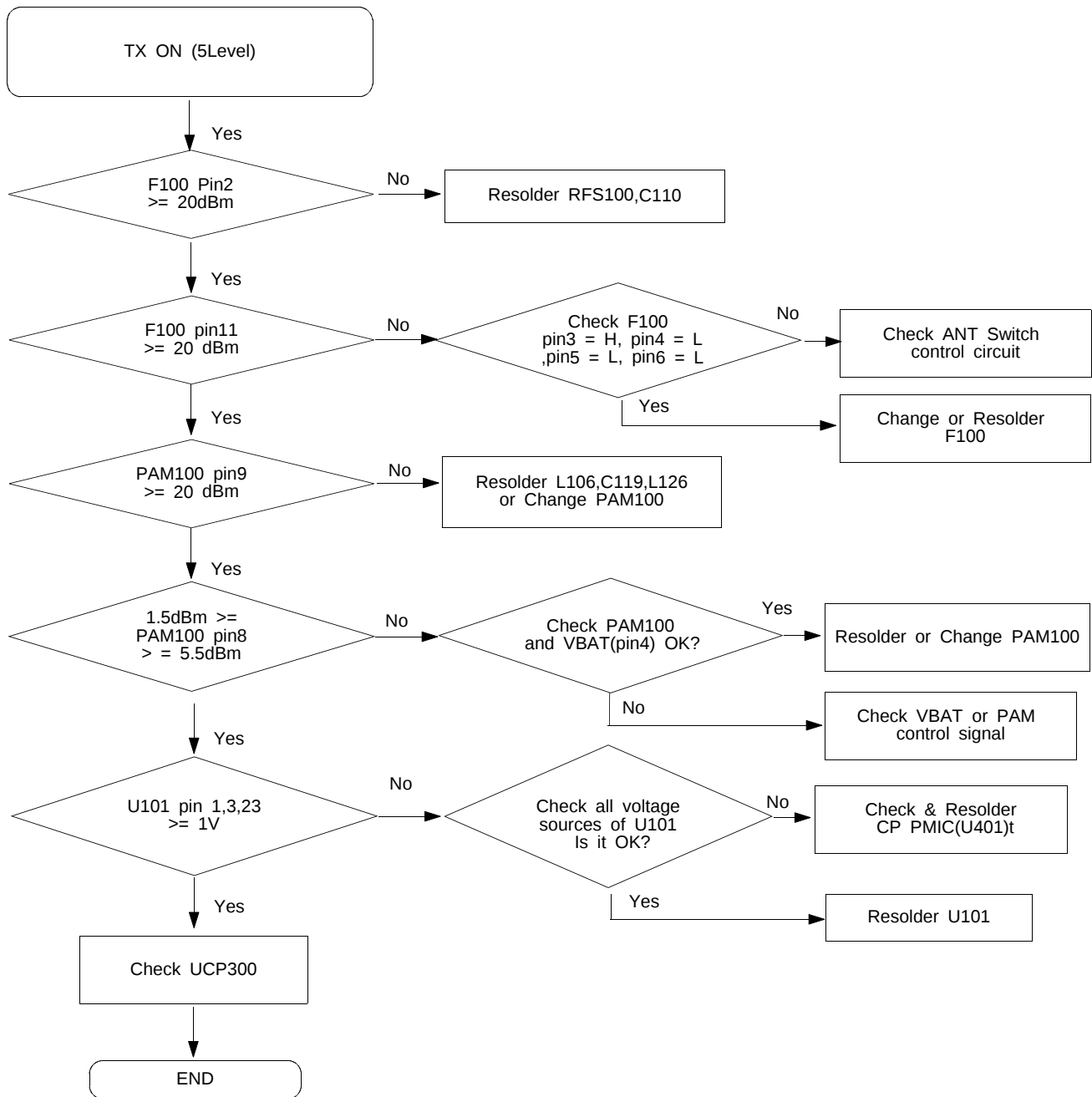


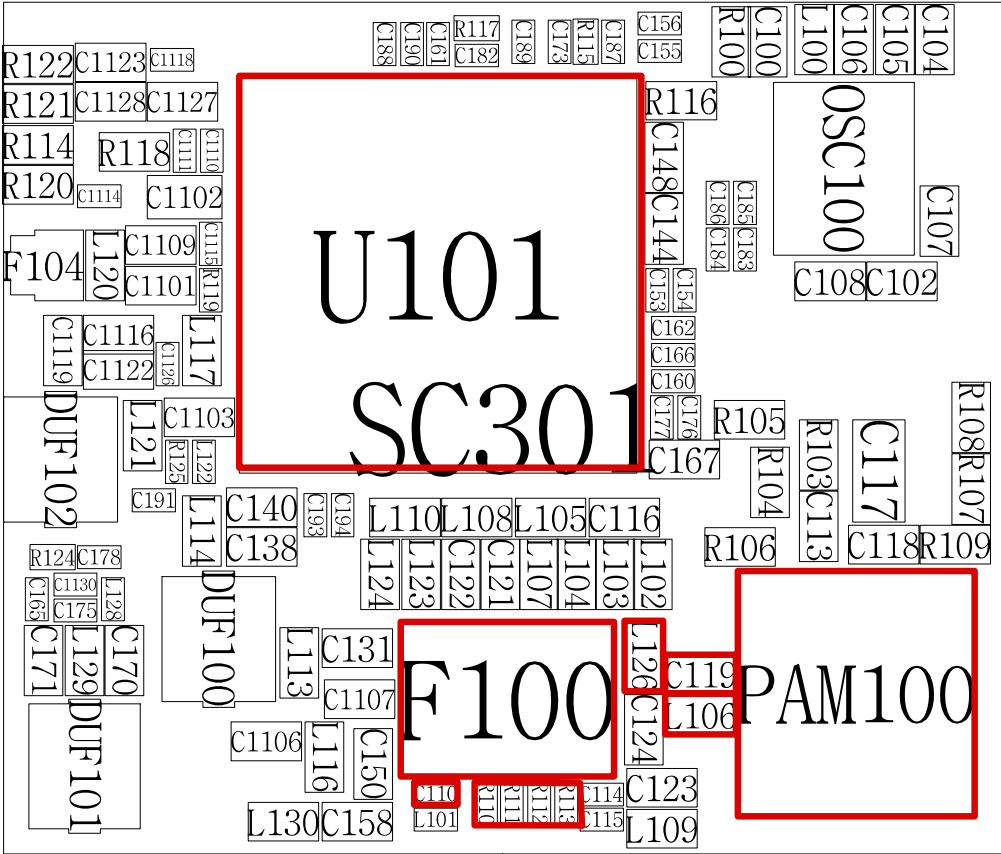
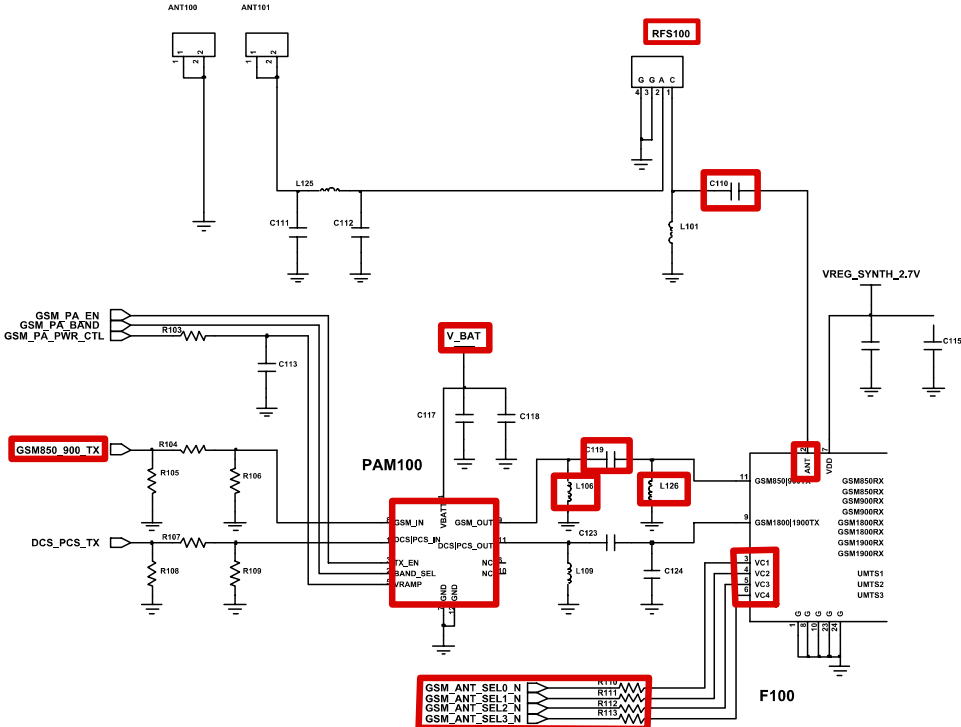
9-11. GSM850 Receiver



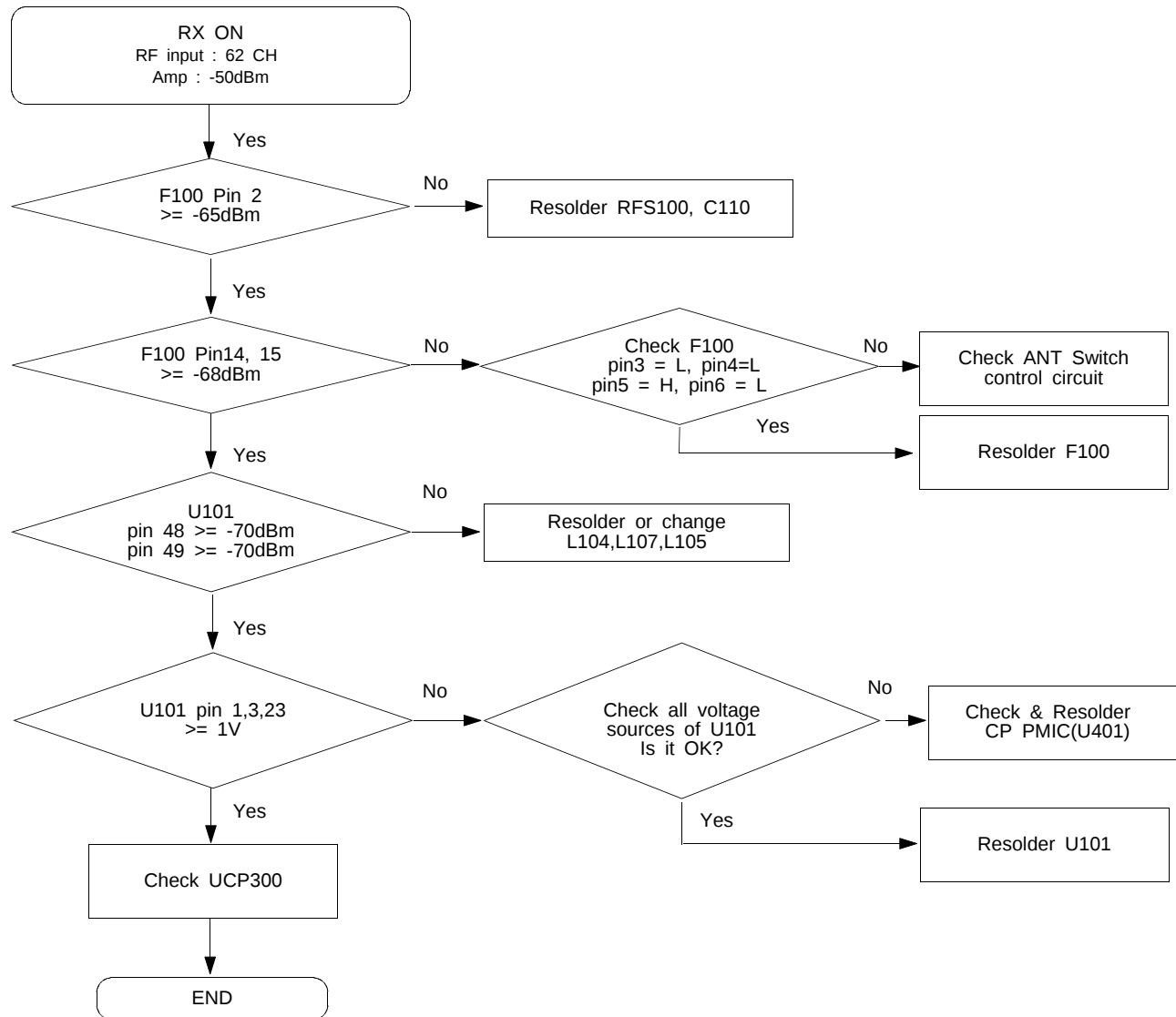


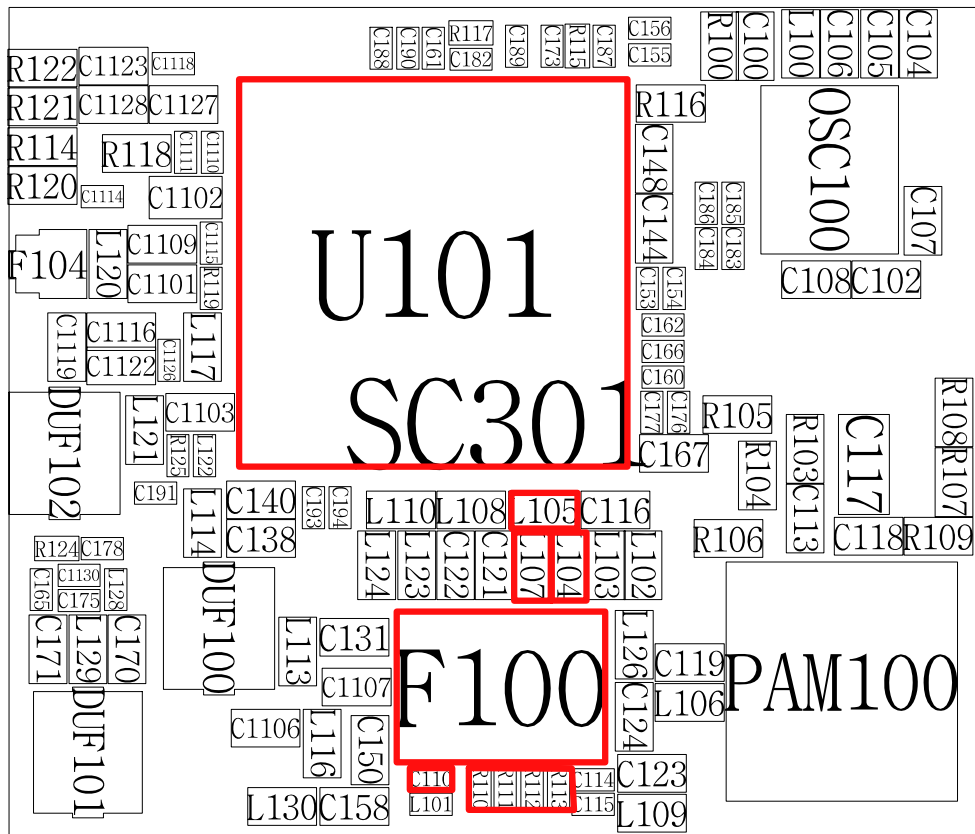
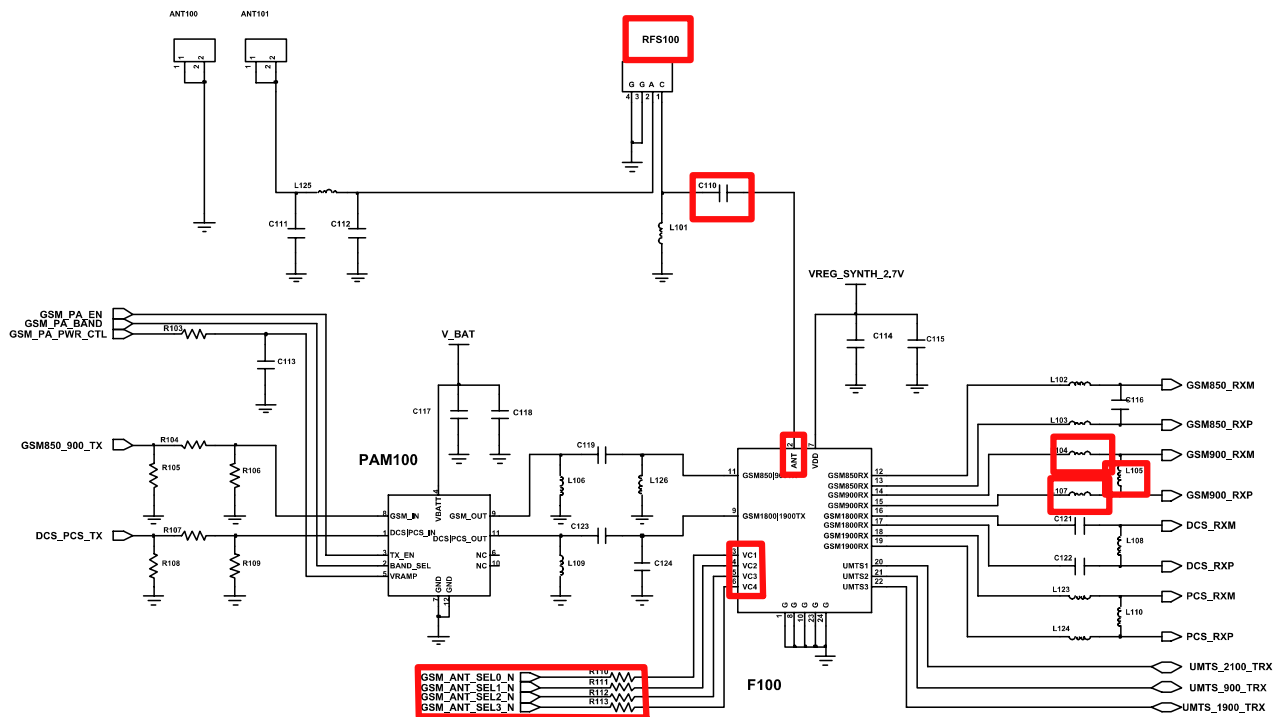
9-12. GSM850 Transmitter



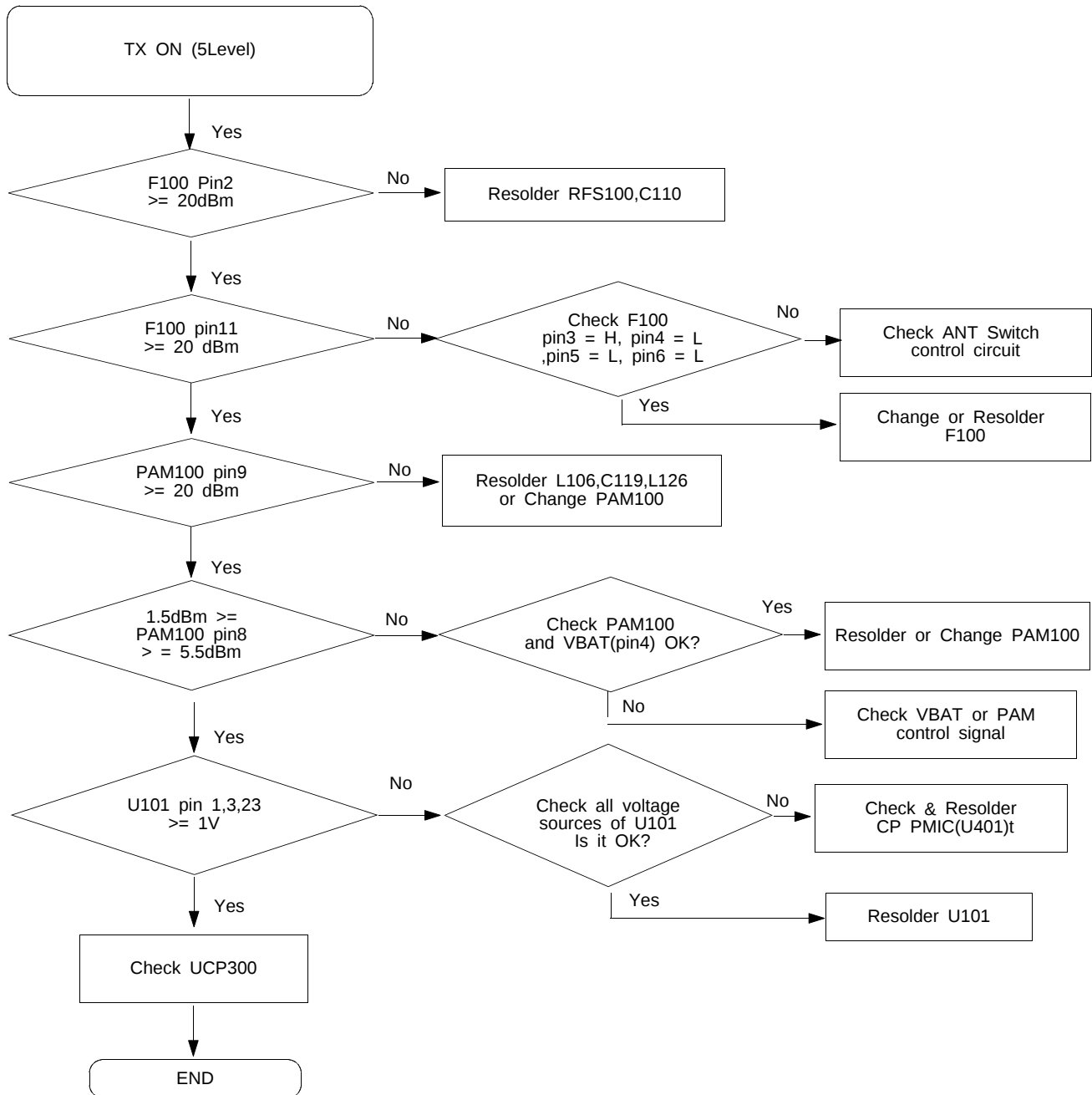


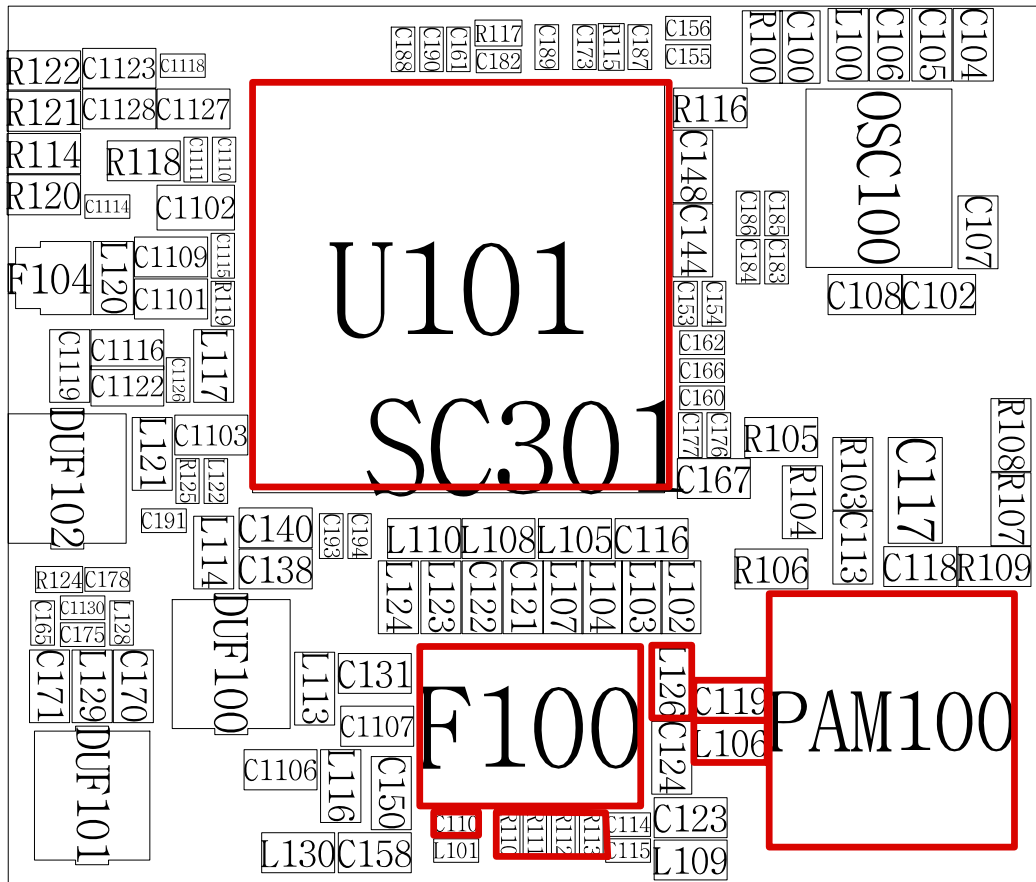
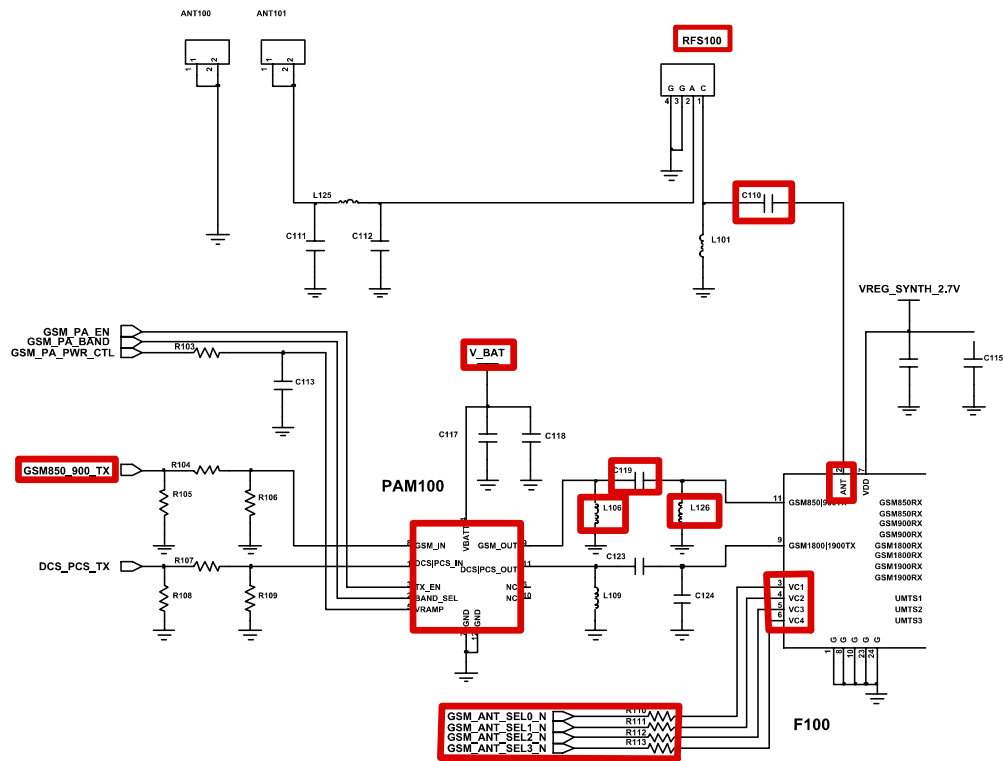
9-13. GSM900 Receiver



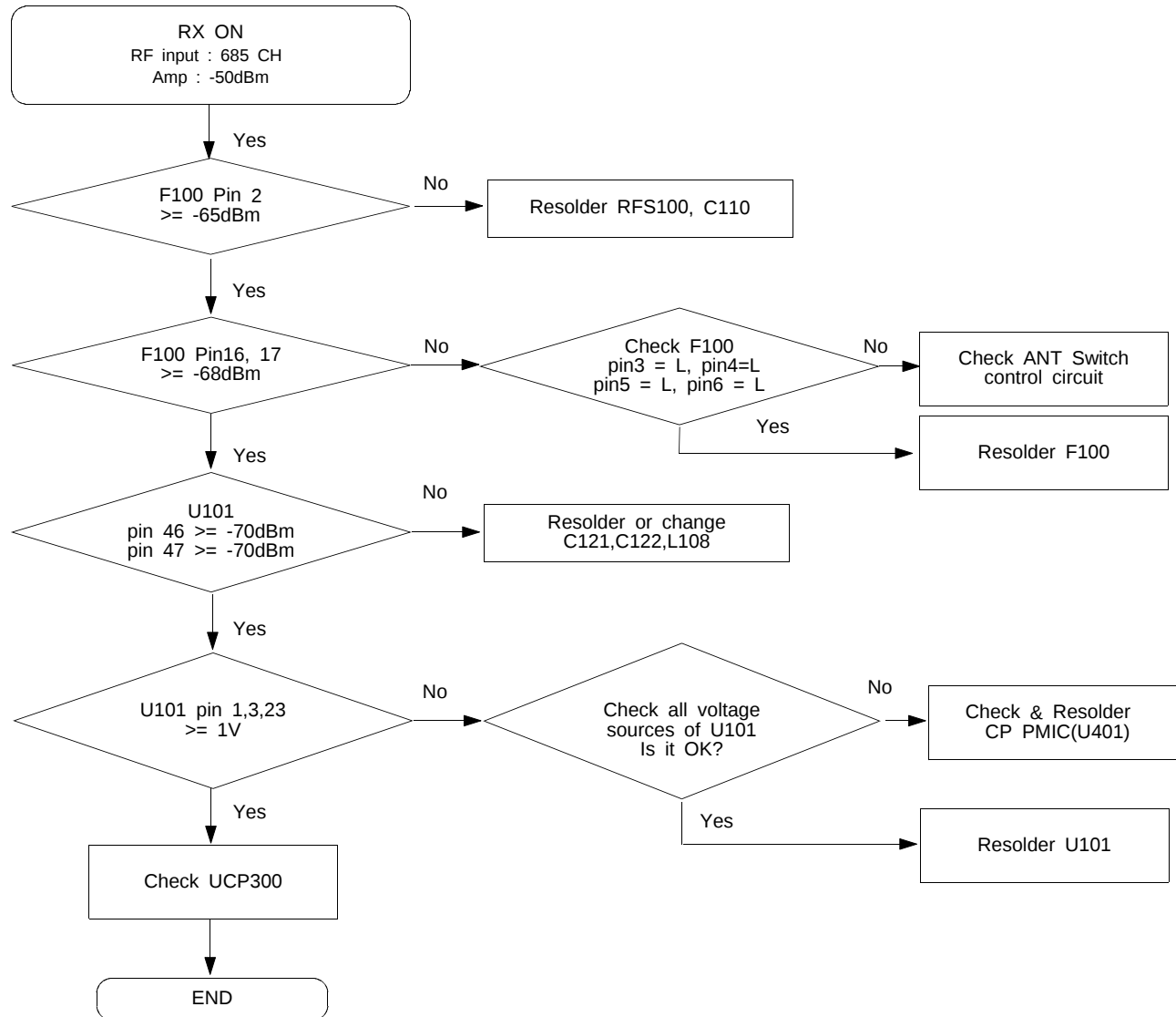


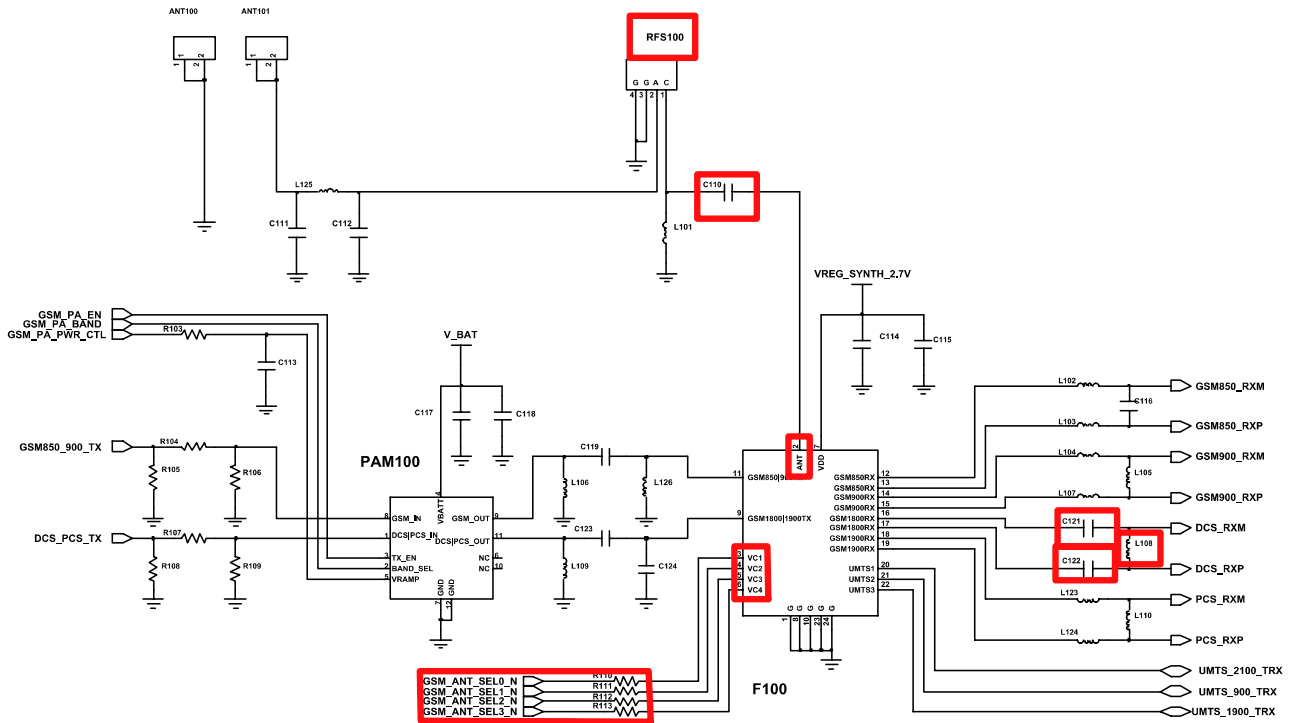
9-14. GSM900 Transmitter



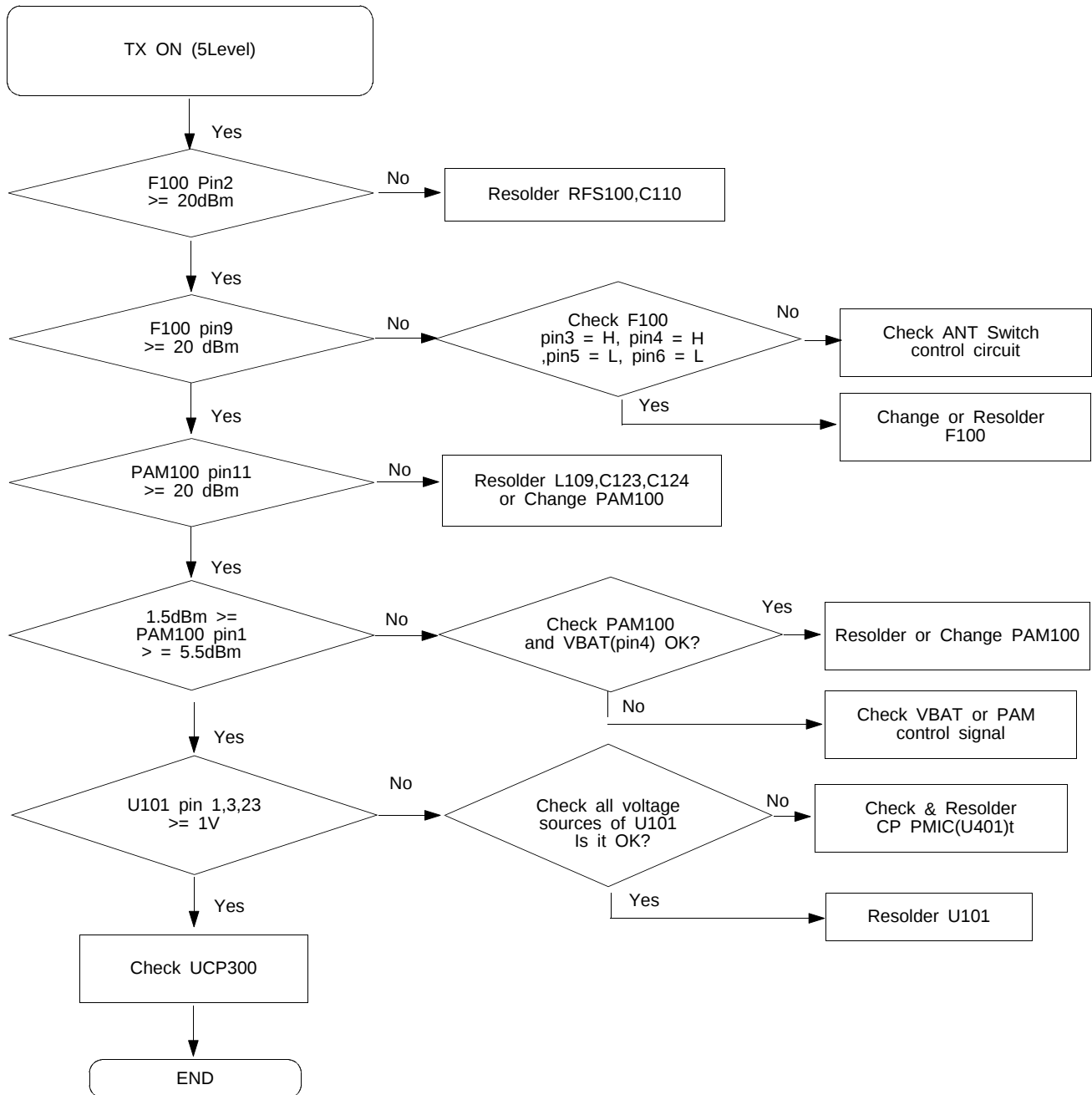


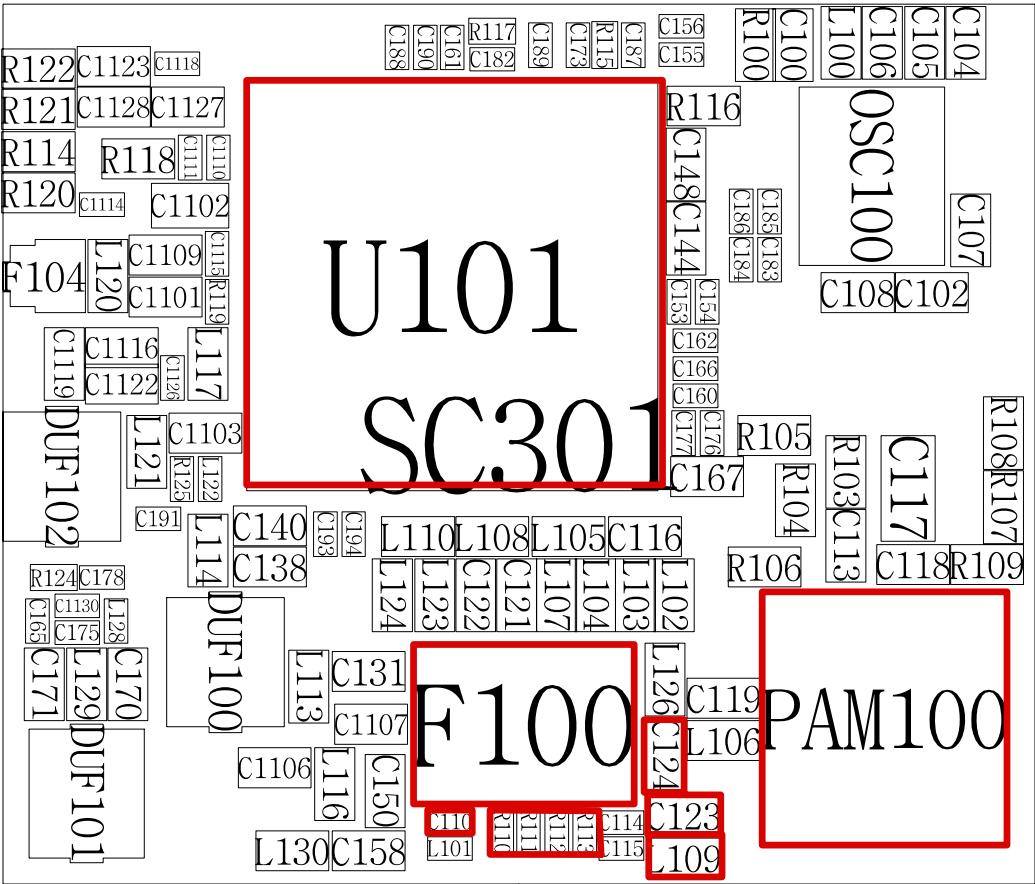
9-15. DCS1800 Receiver

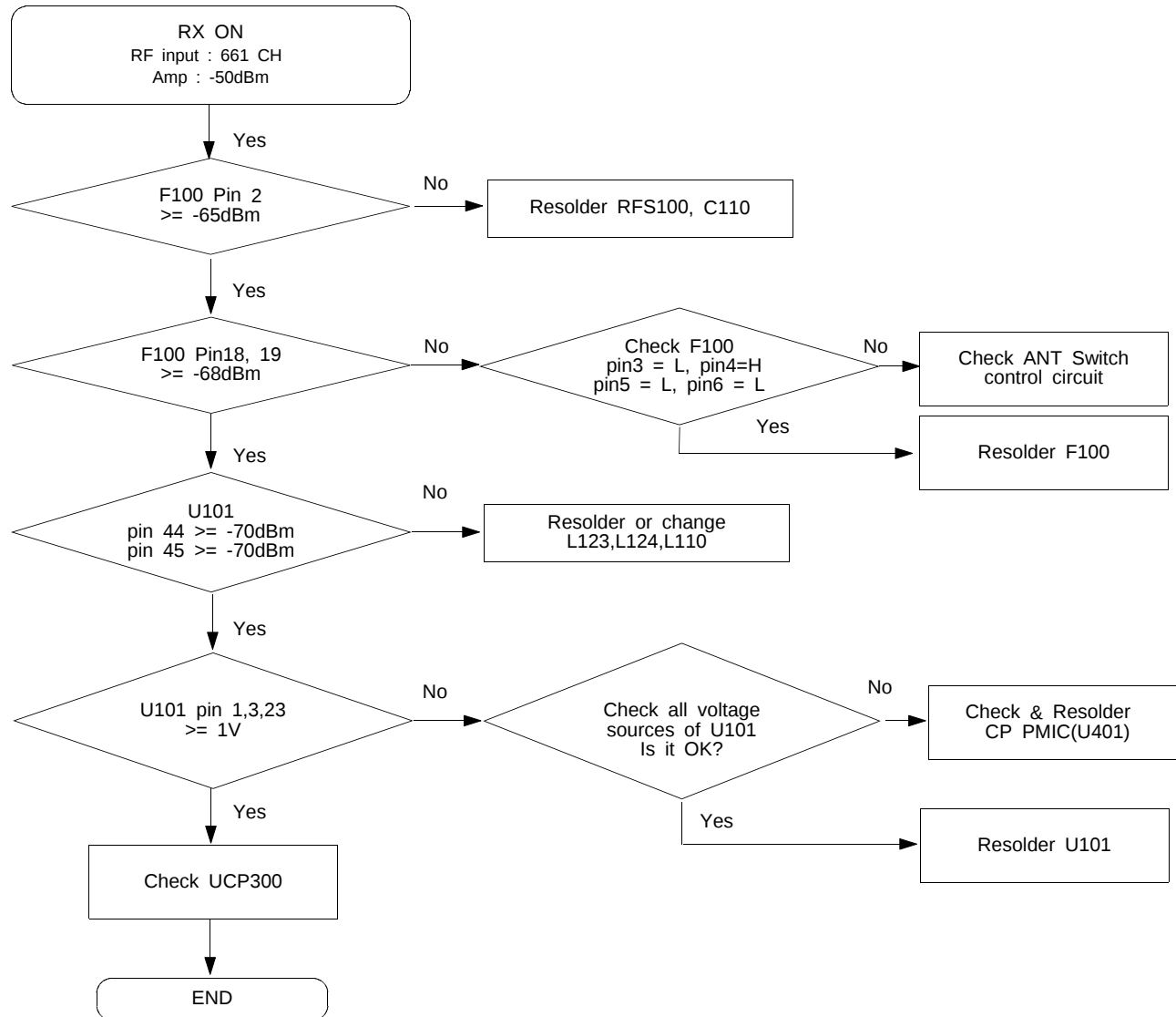


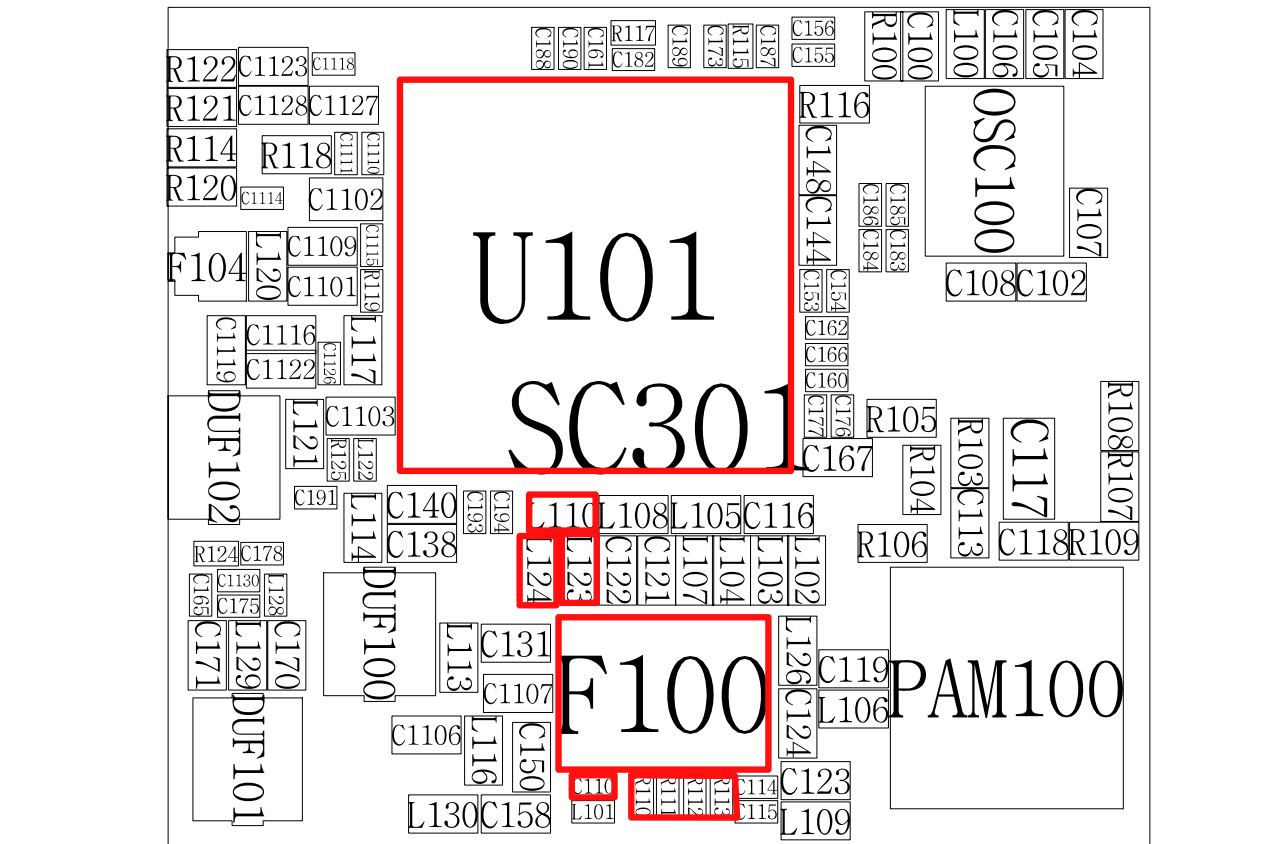


9-16. DCS1800 Transmitter

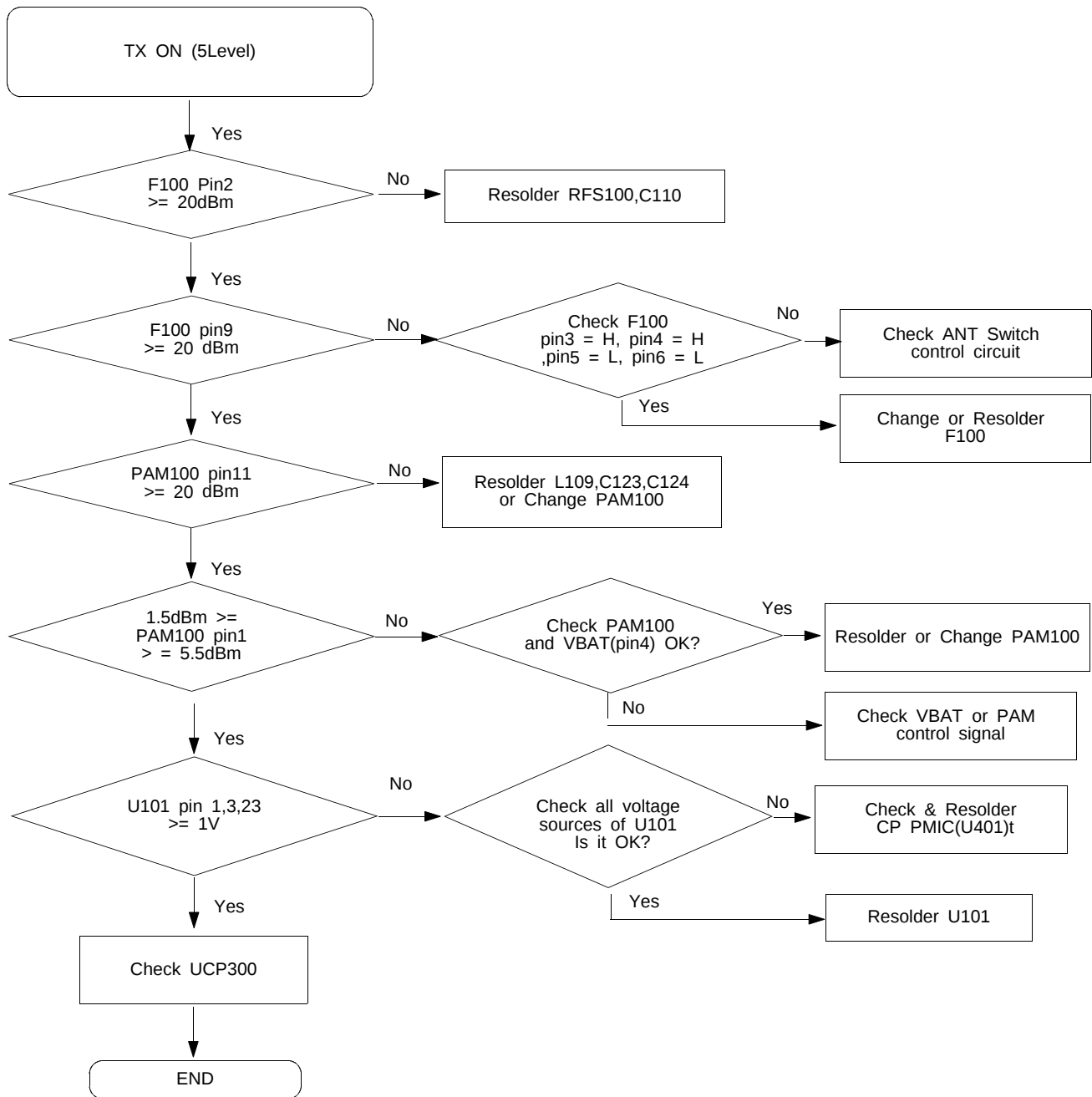


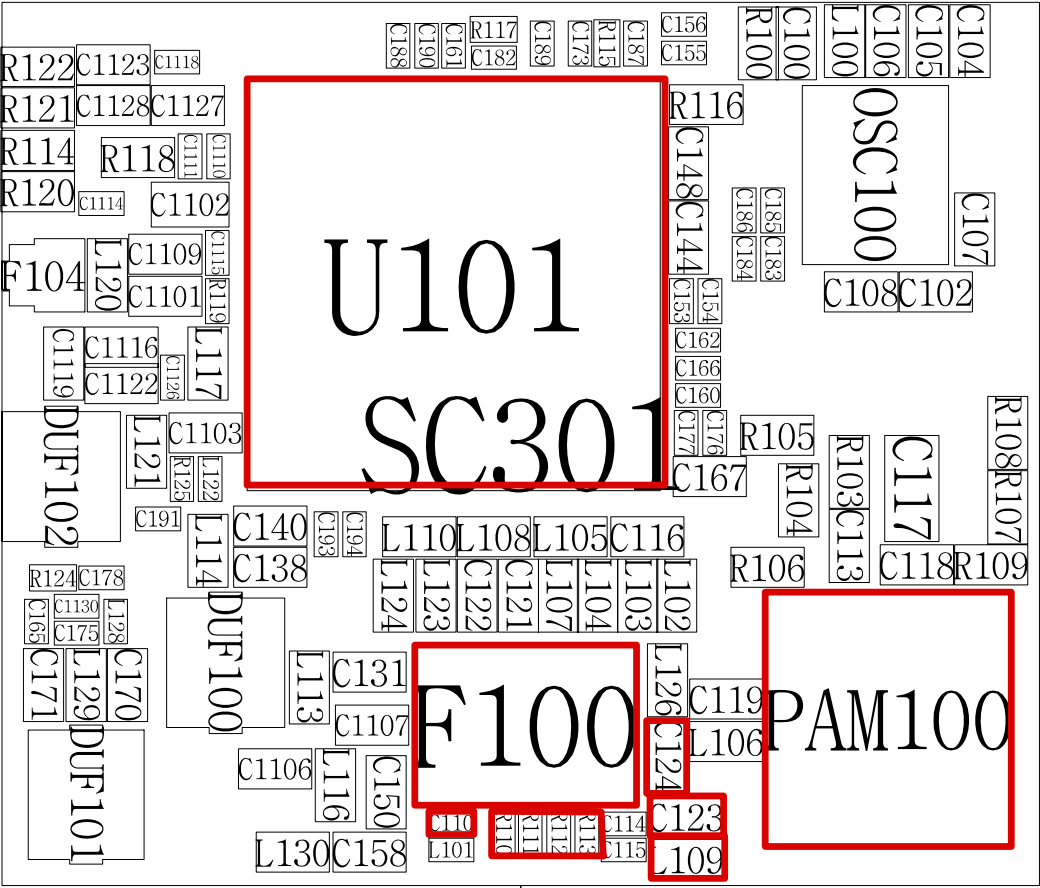


9-17. PCS1900 Receiver



9-18. PCS1900 Transmitter

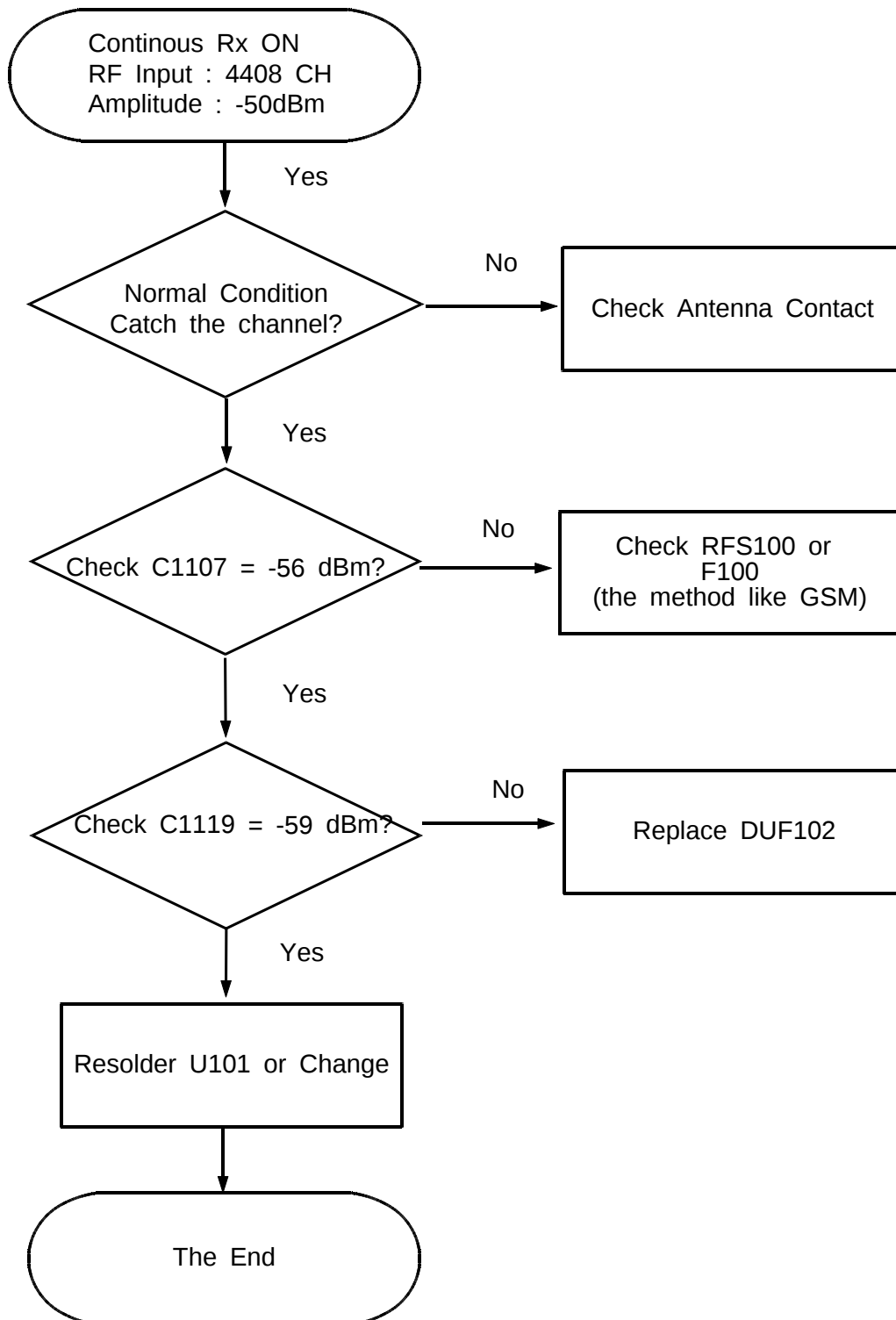


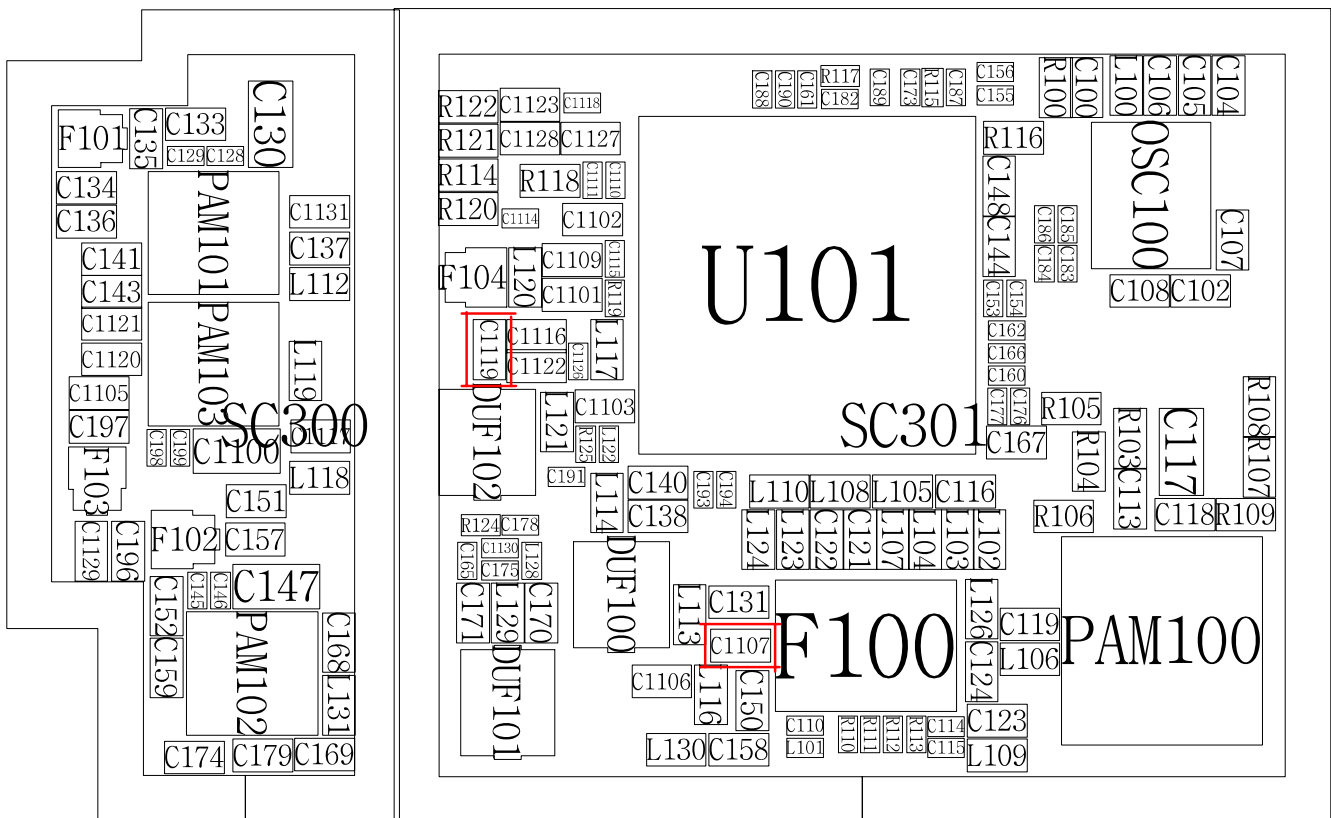
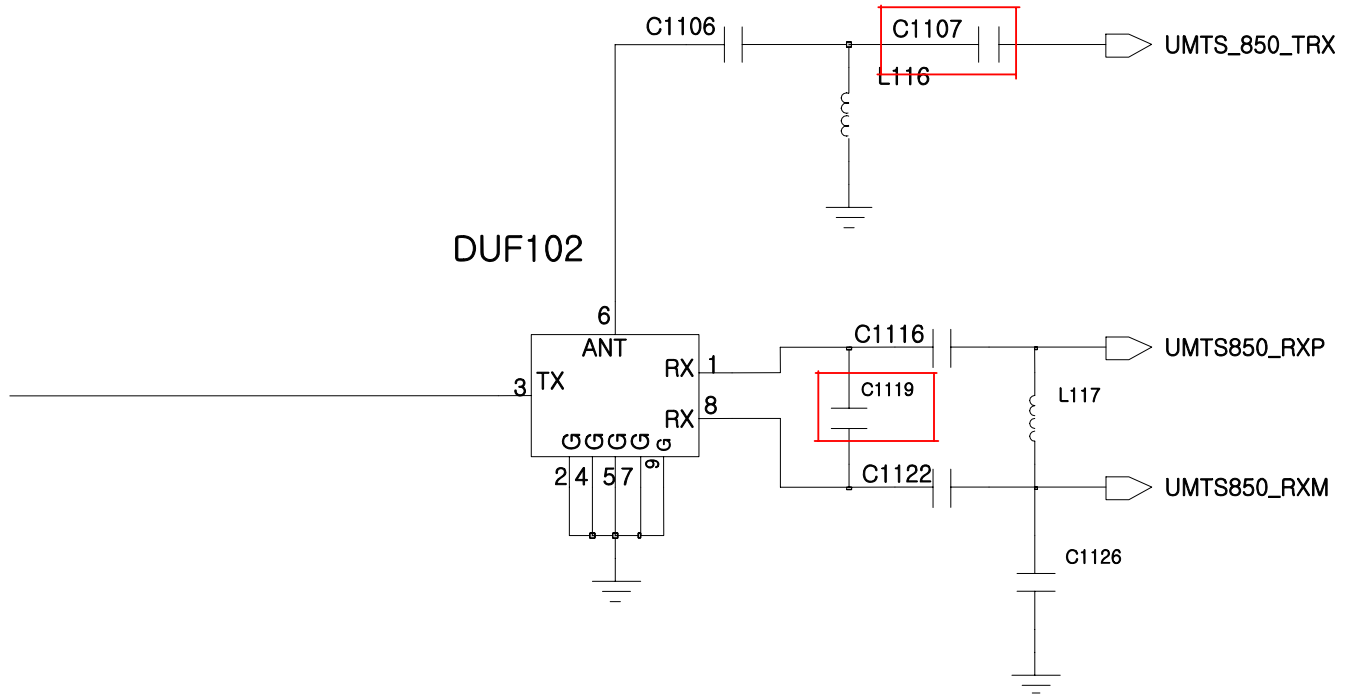


9-19. WCDMA850 Receiver

**If you check the tx chain,

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

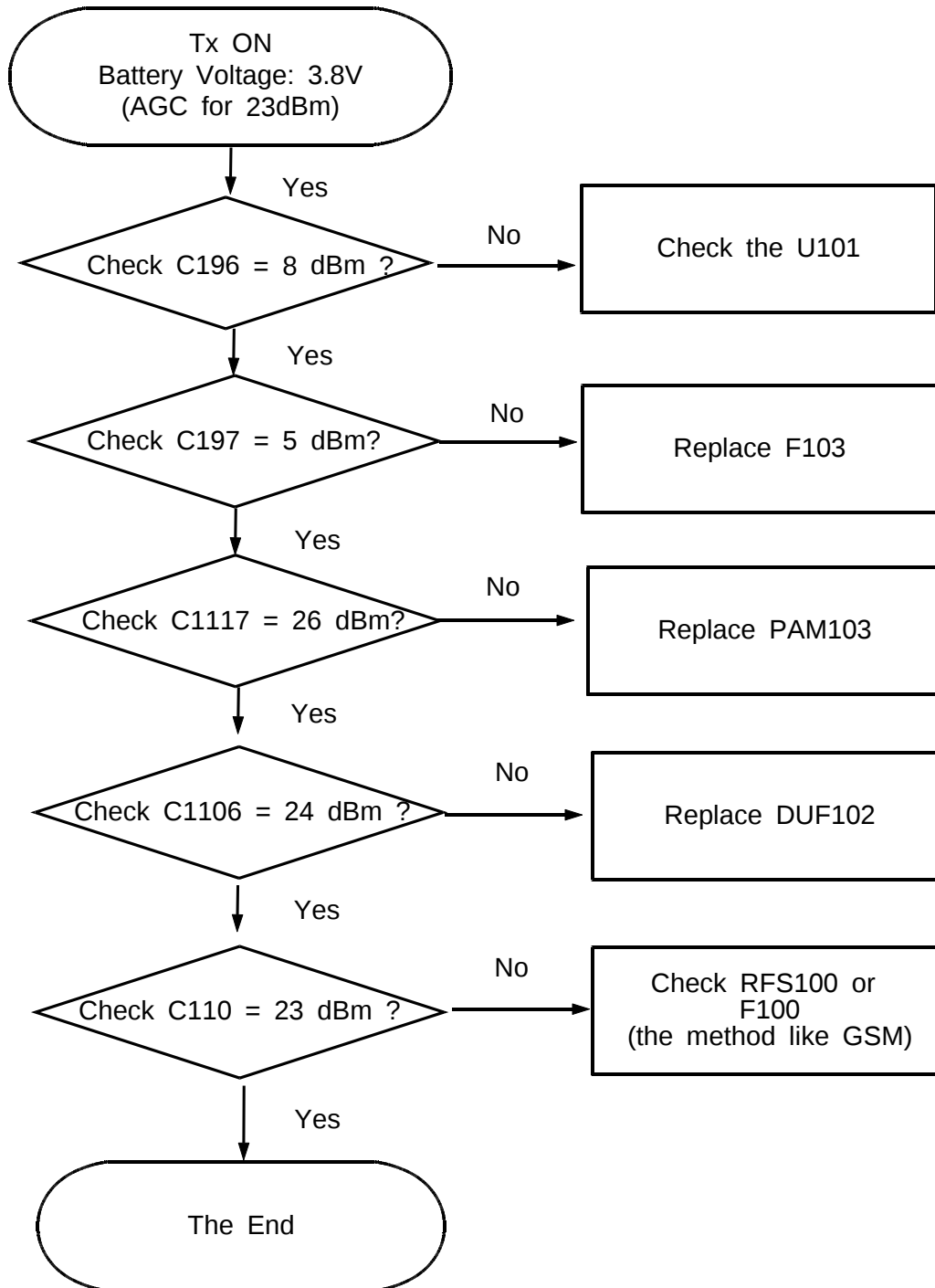


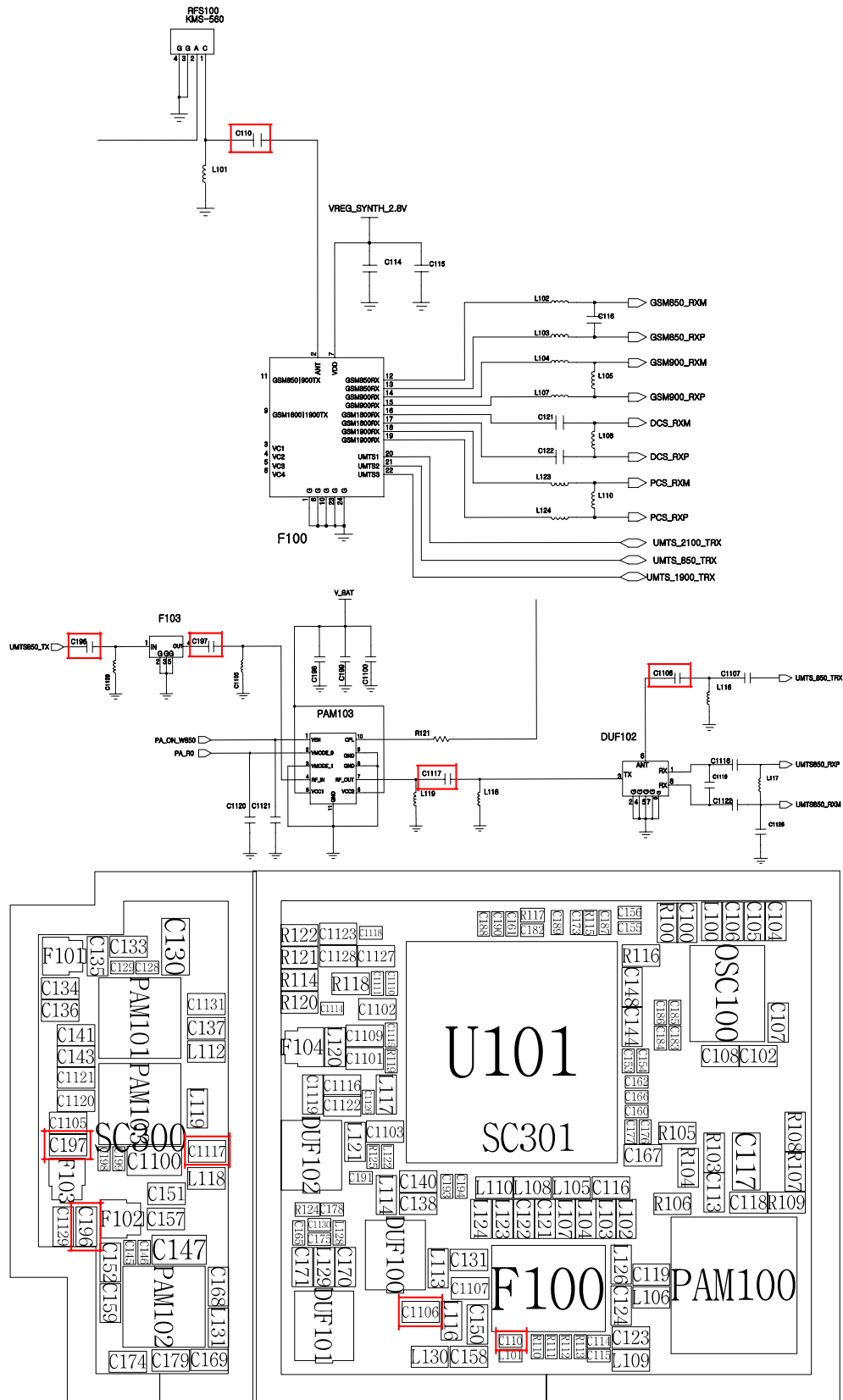


9-20. WCDMA850 Transmitter

**If you check the tx chain,

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

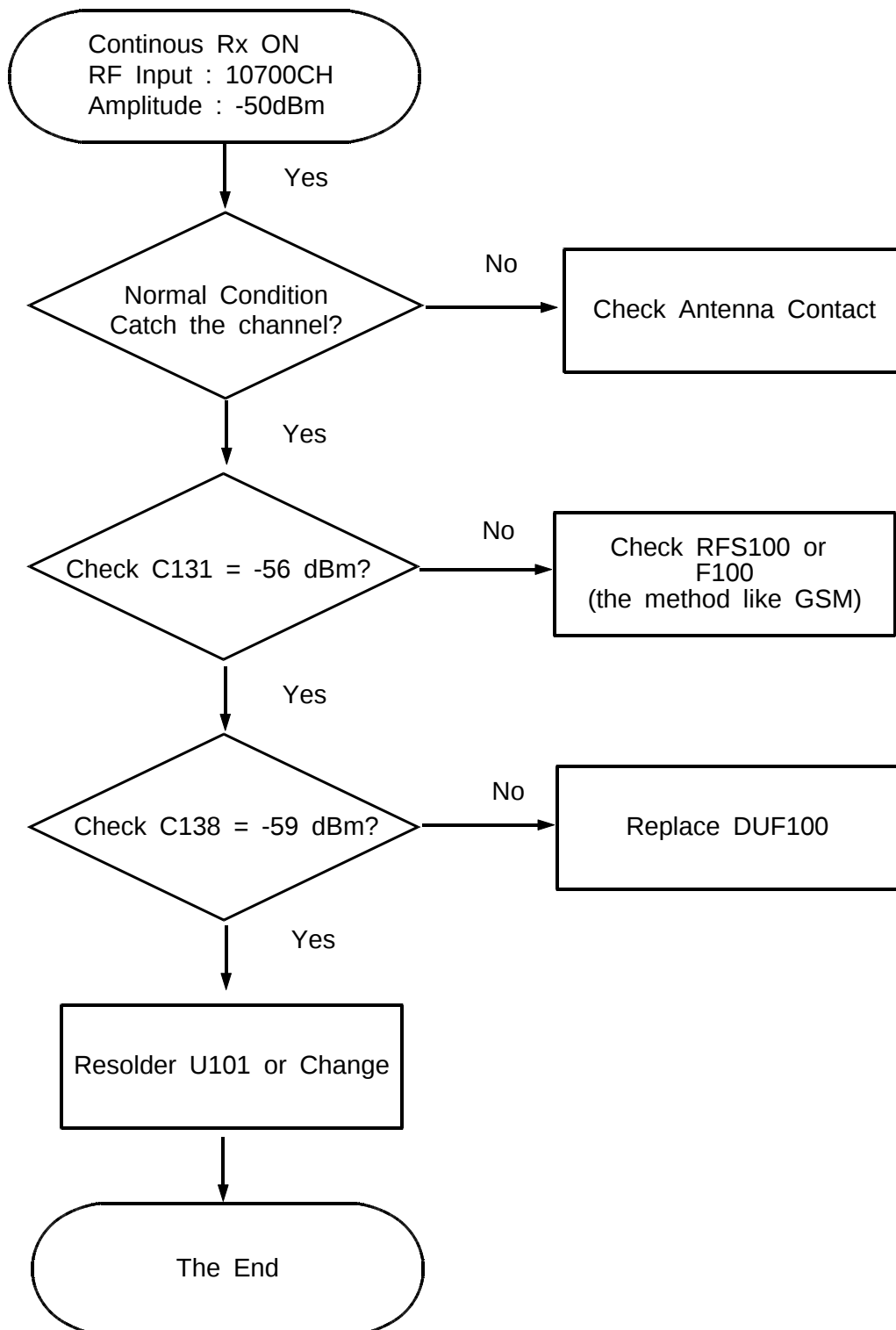


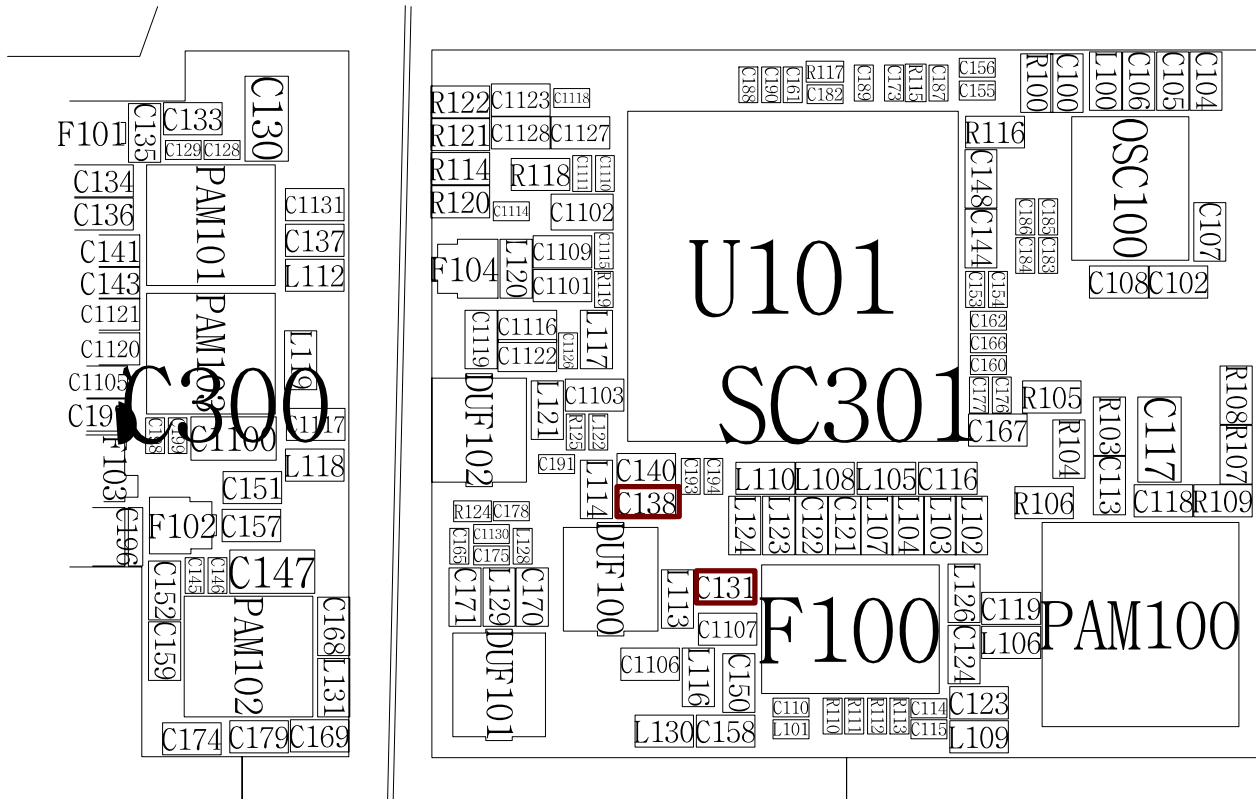
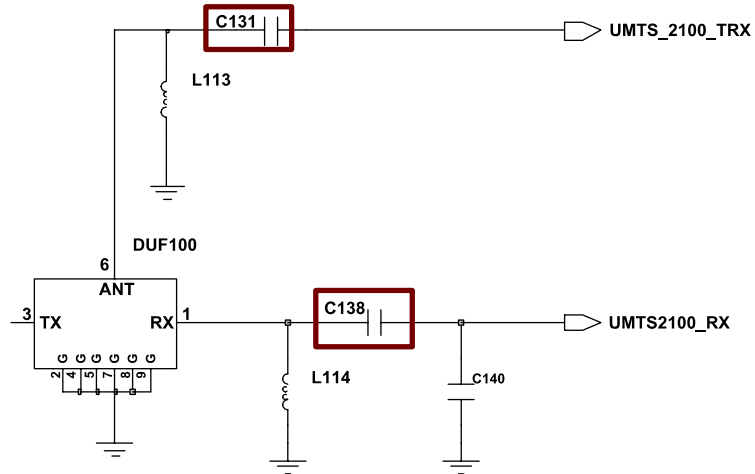


9-21. WCDMA2100 Receiver

**If you check the tx chain,

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

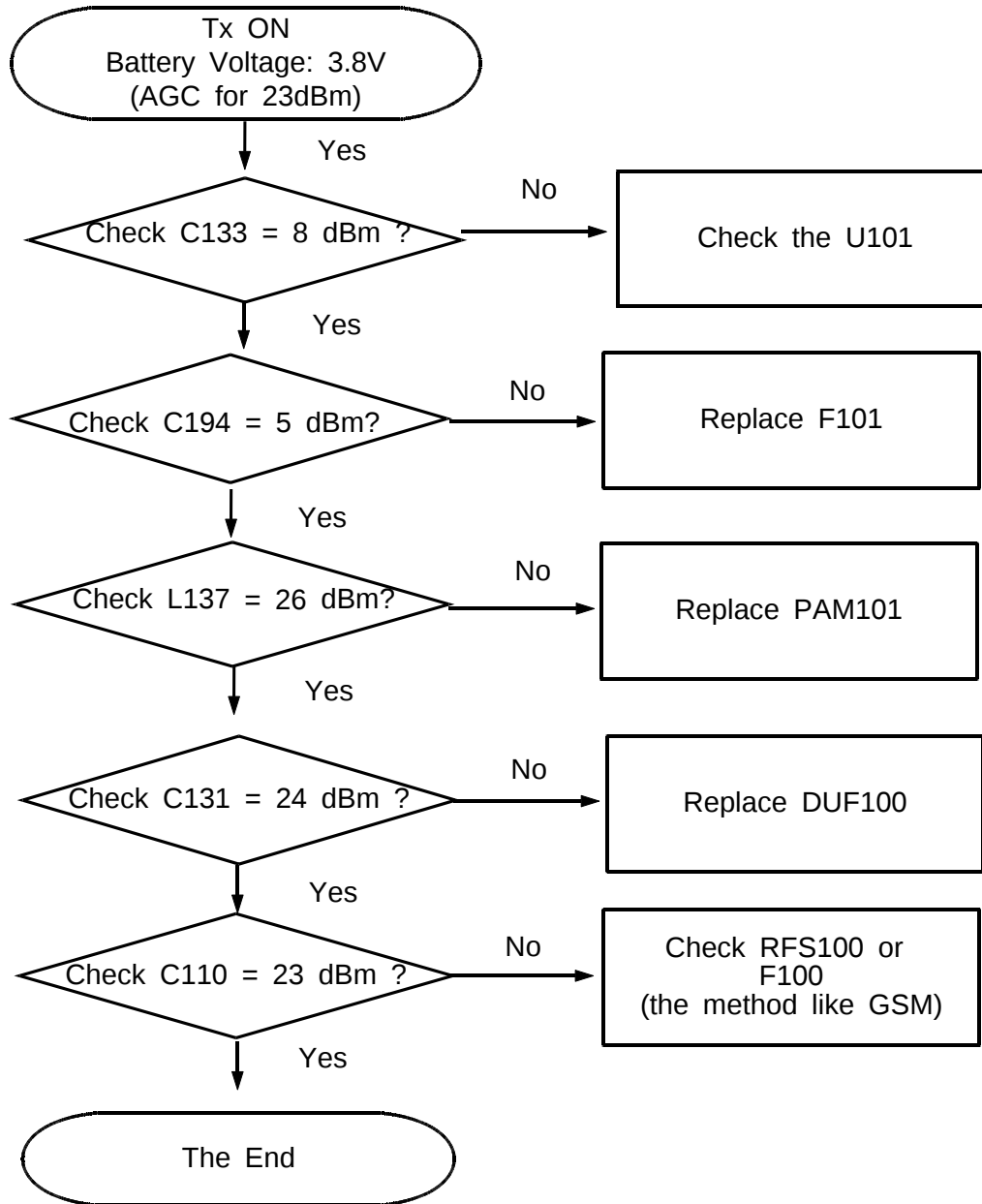


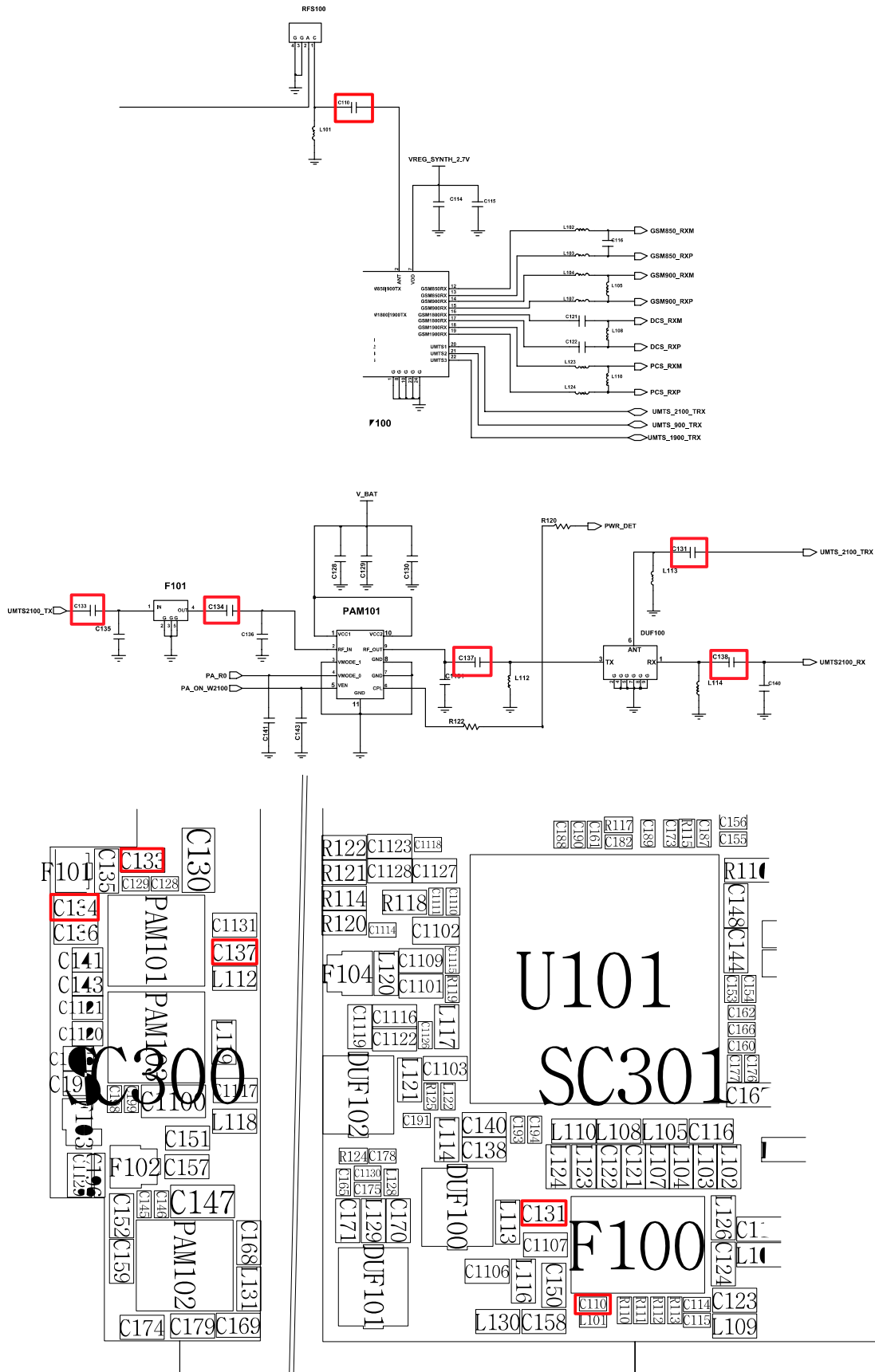


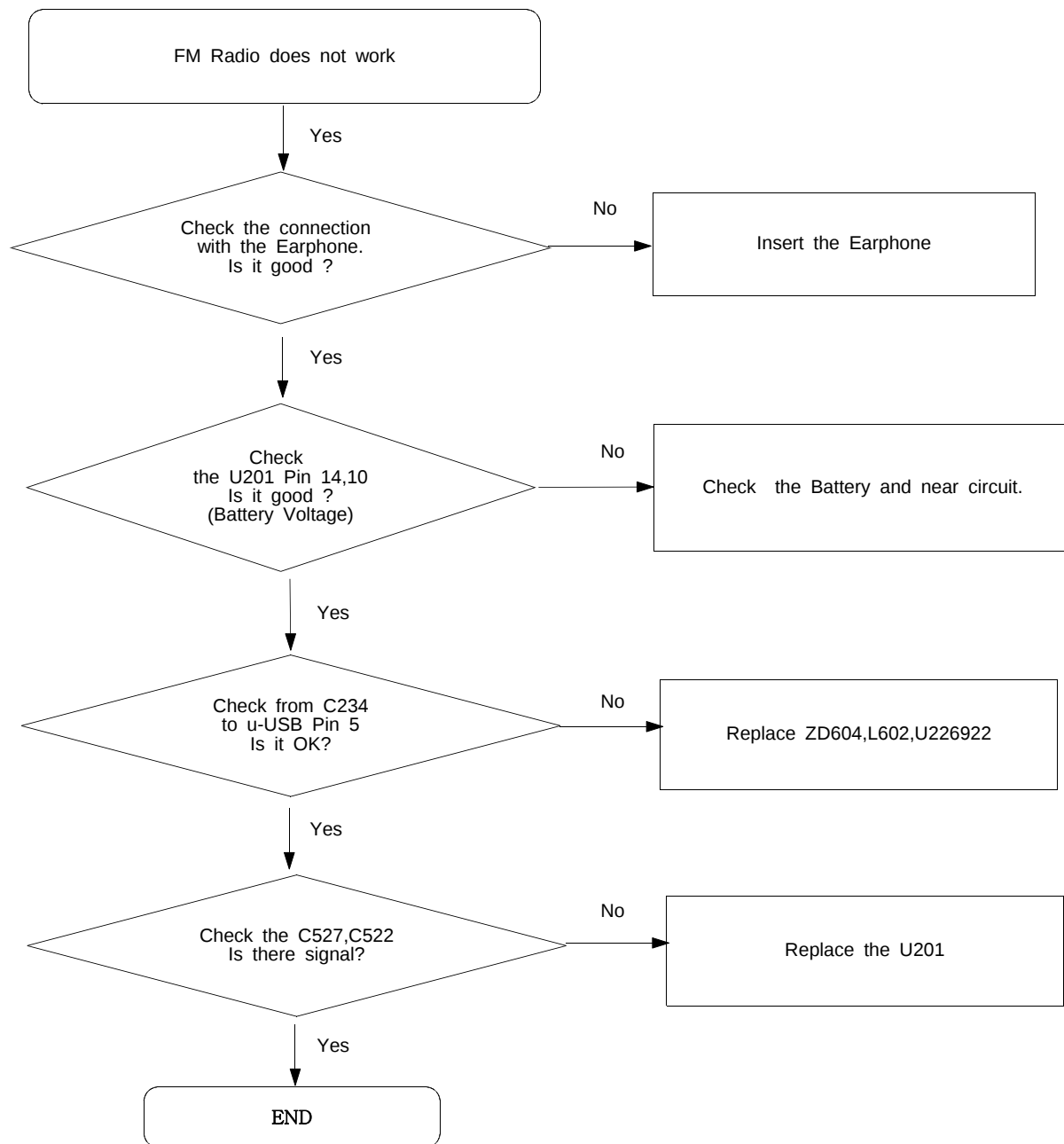
9-22. WCDMA2100 Transmitter

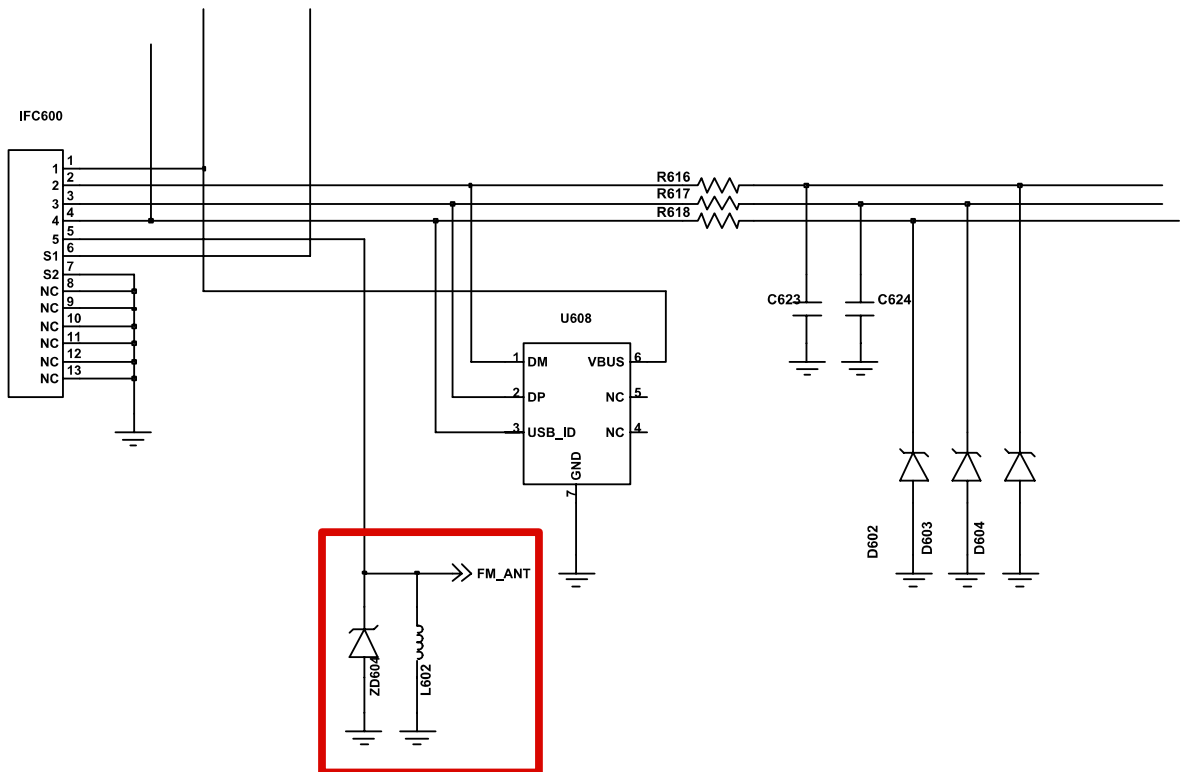
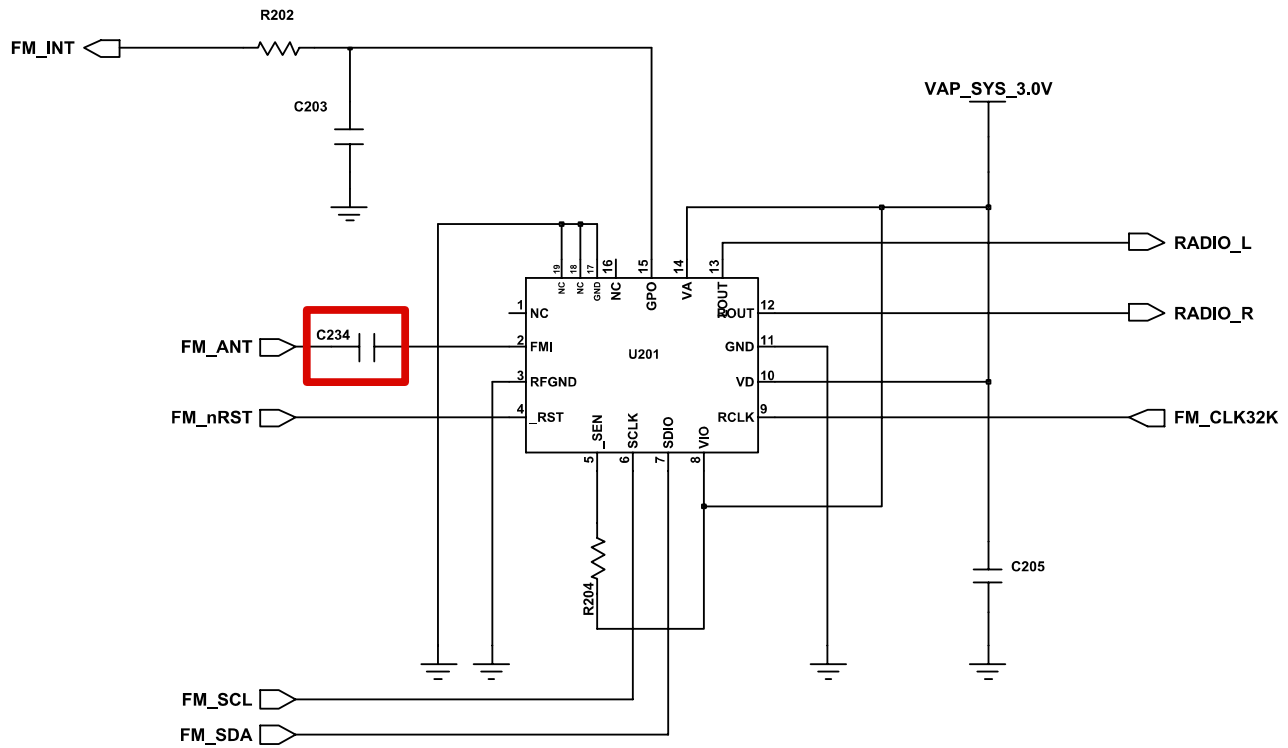
**If you check the tx chain,

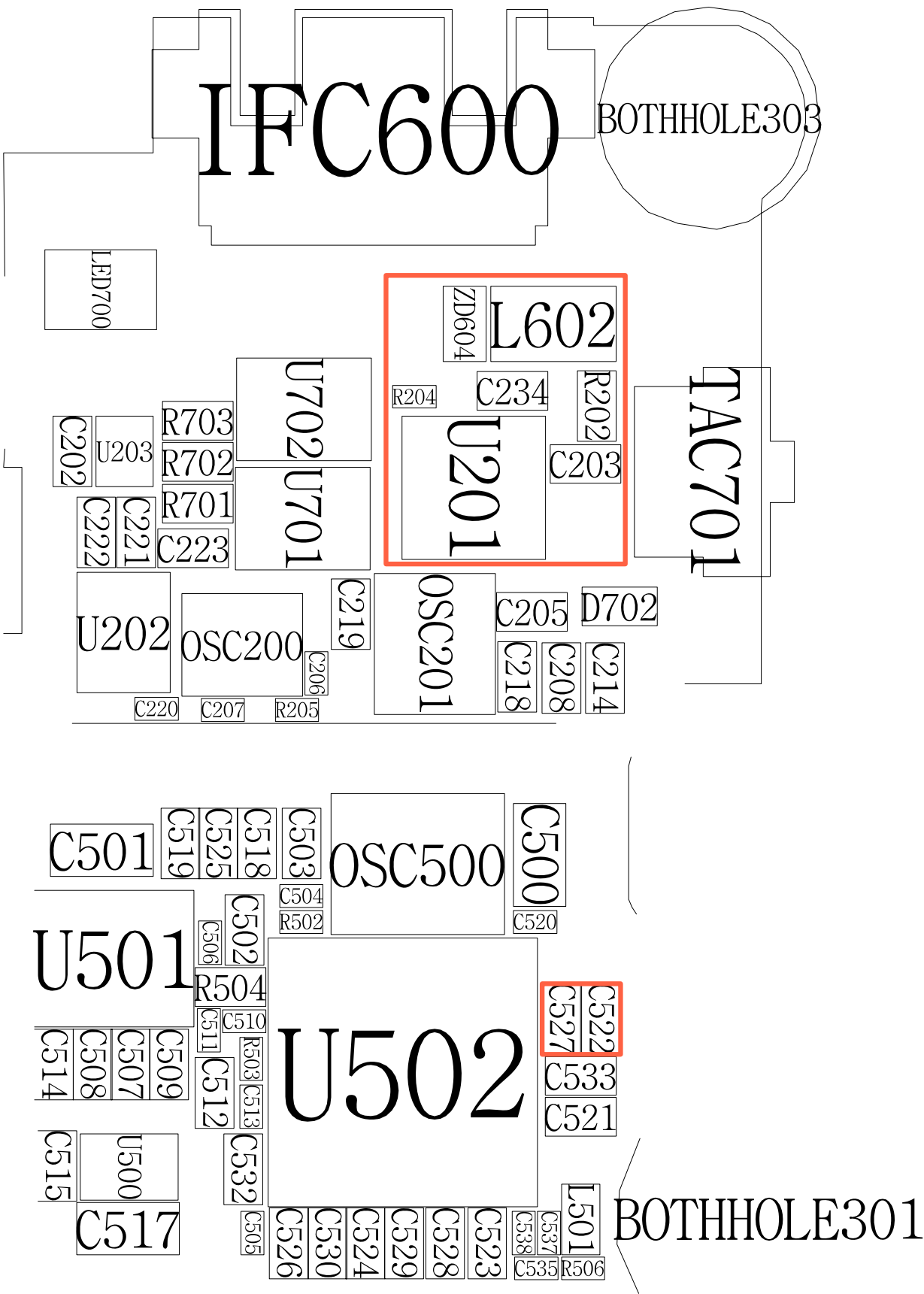
Check the not only RF Device but also resistor, inductor and capacitor.



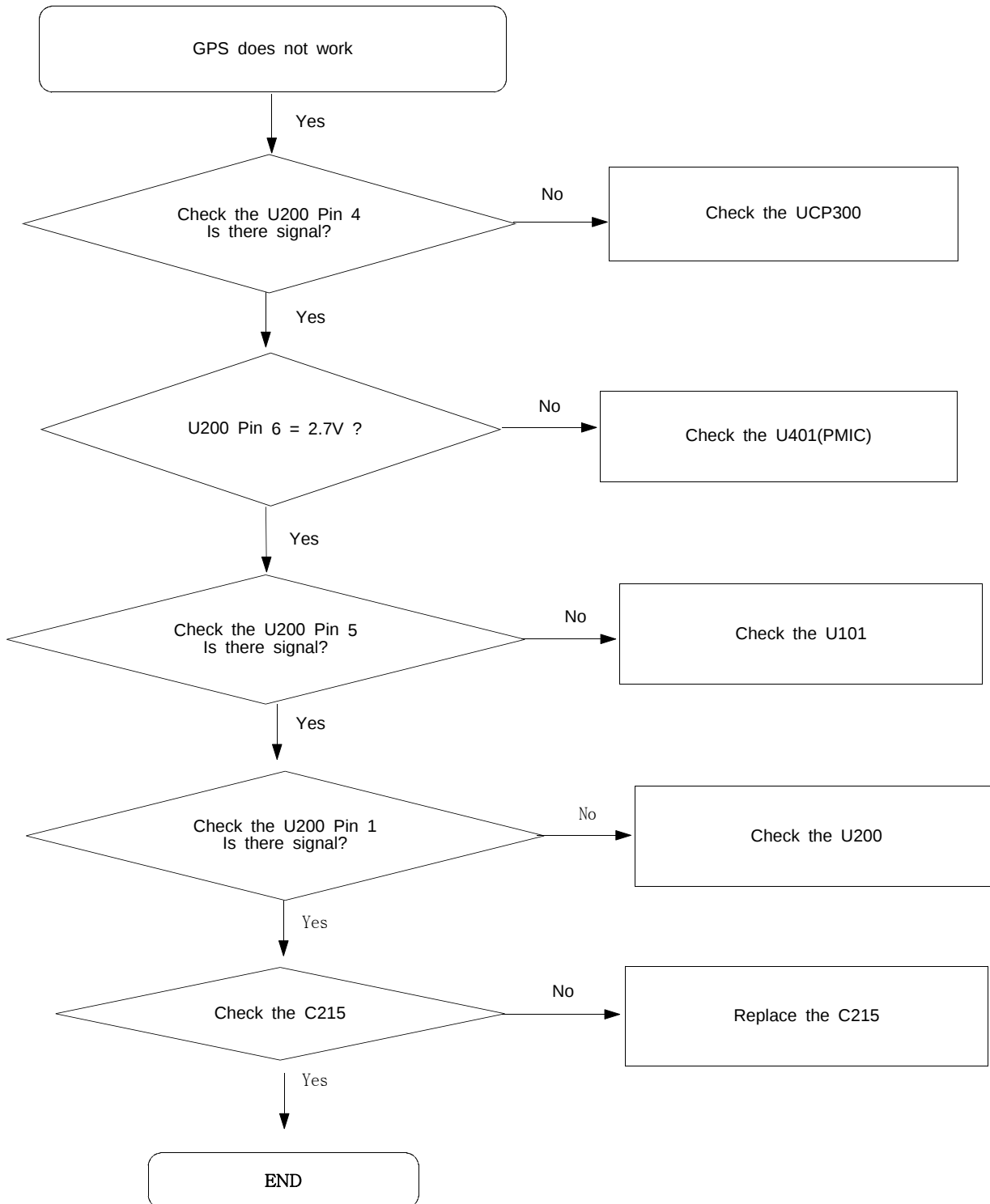


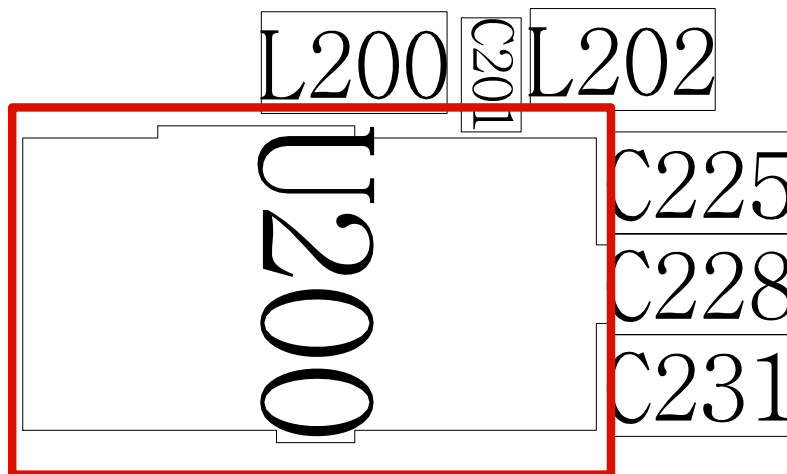
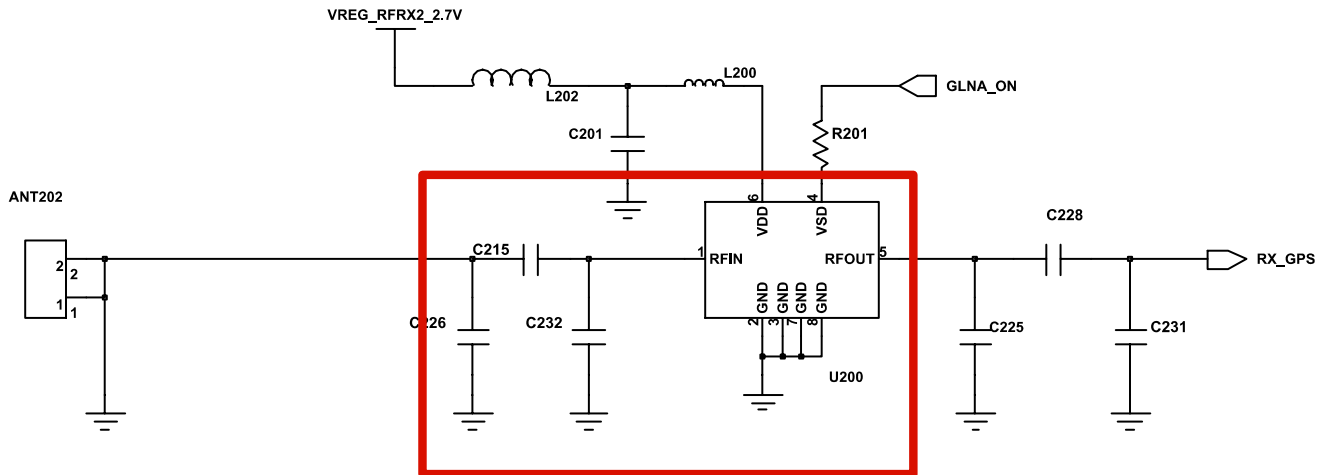
9-23. FM Radio Part



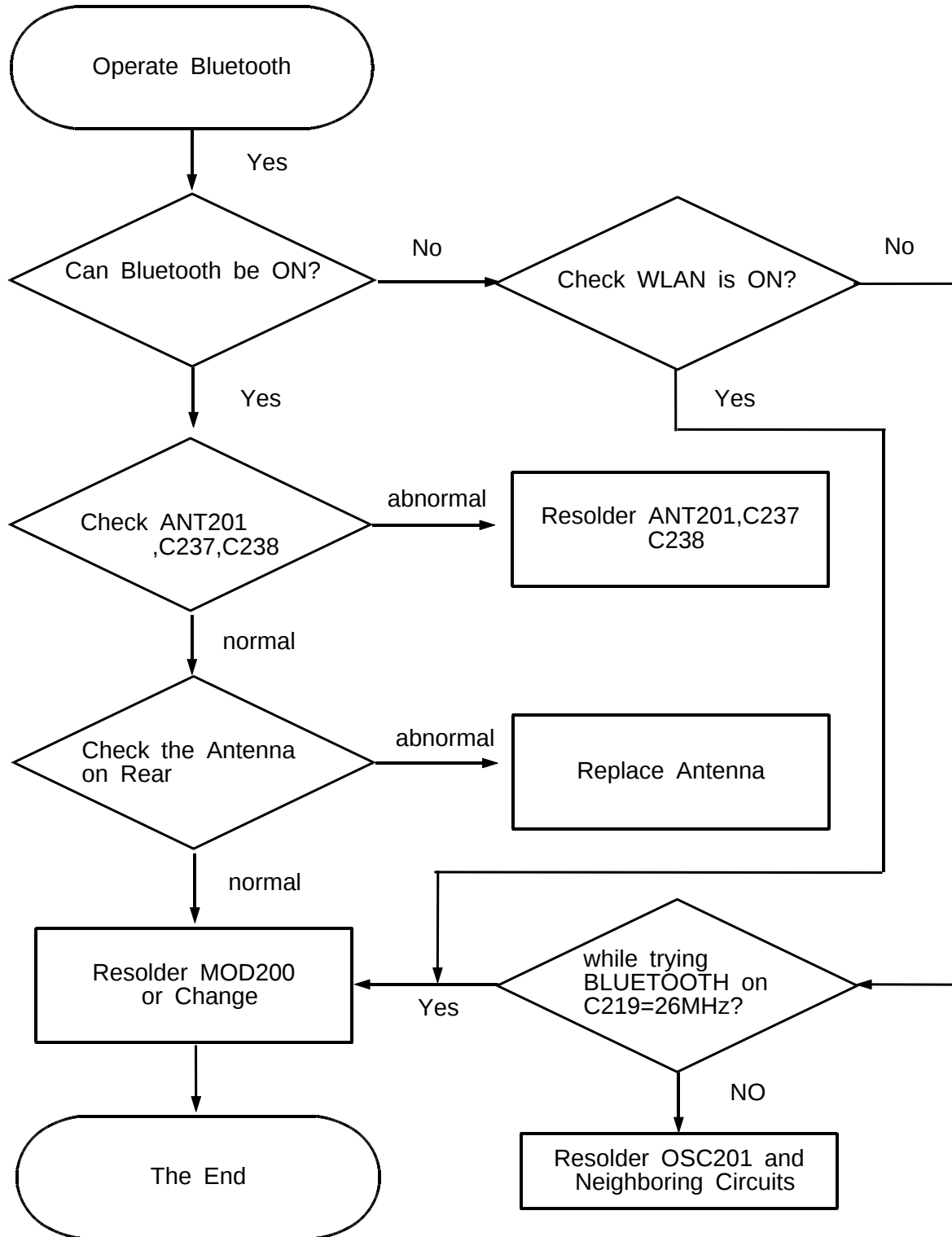


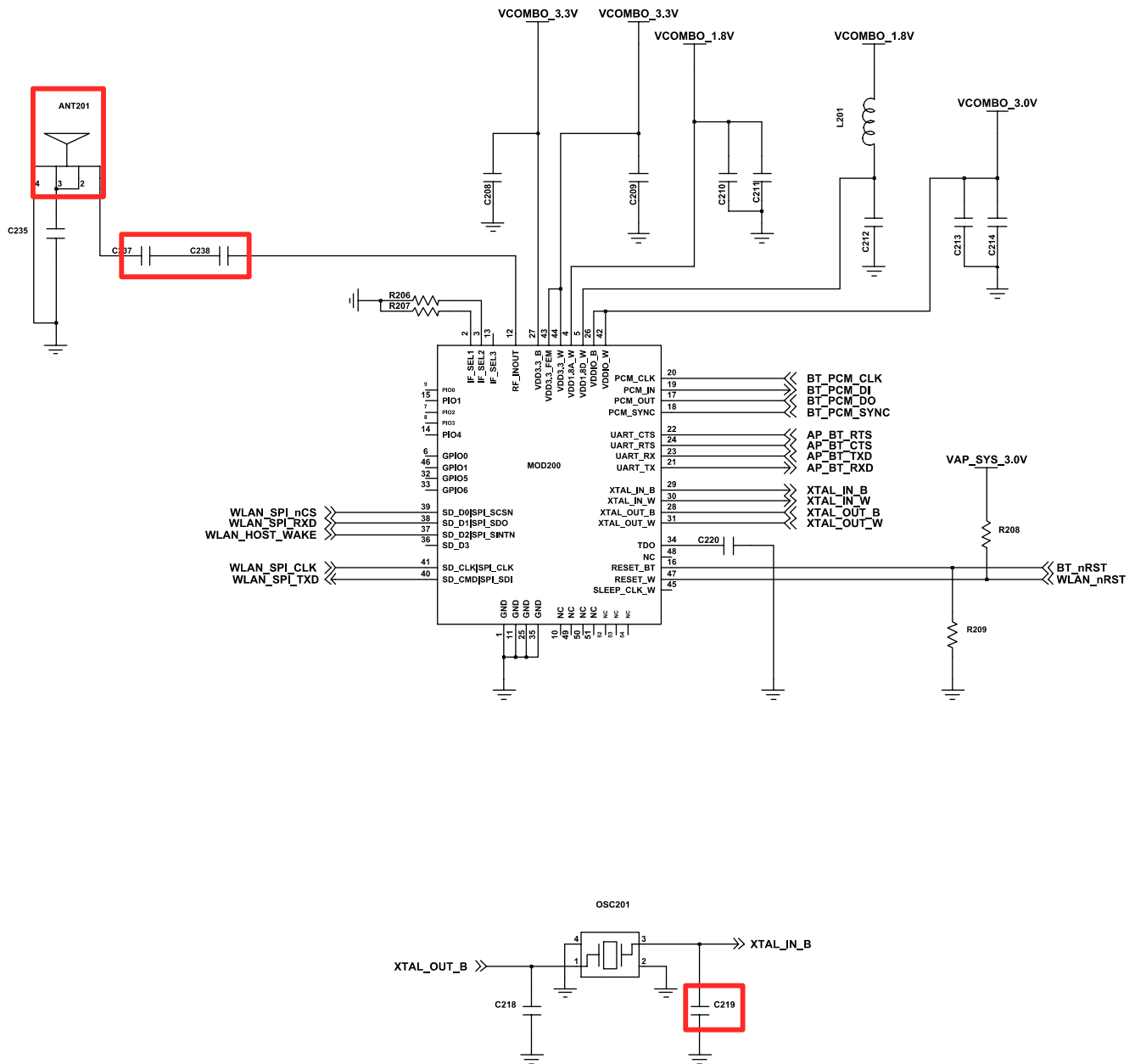
9-24. GPS Part

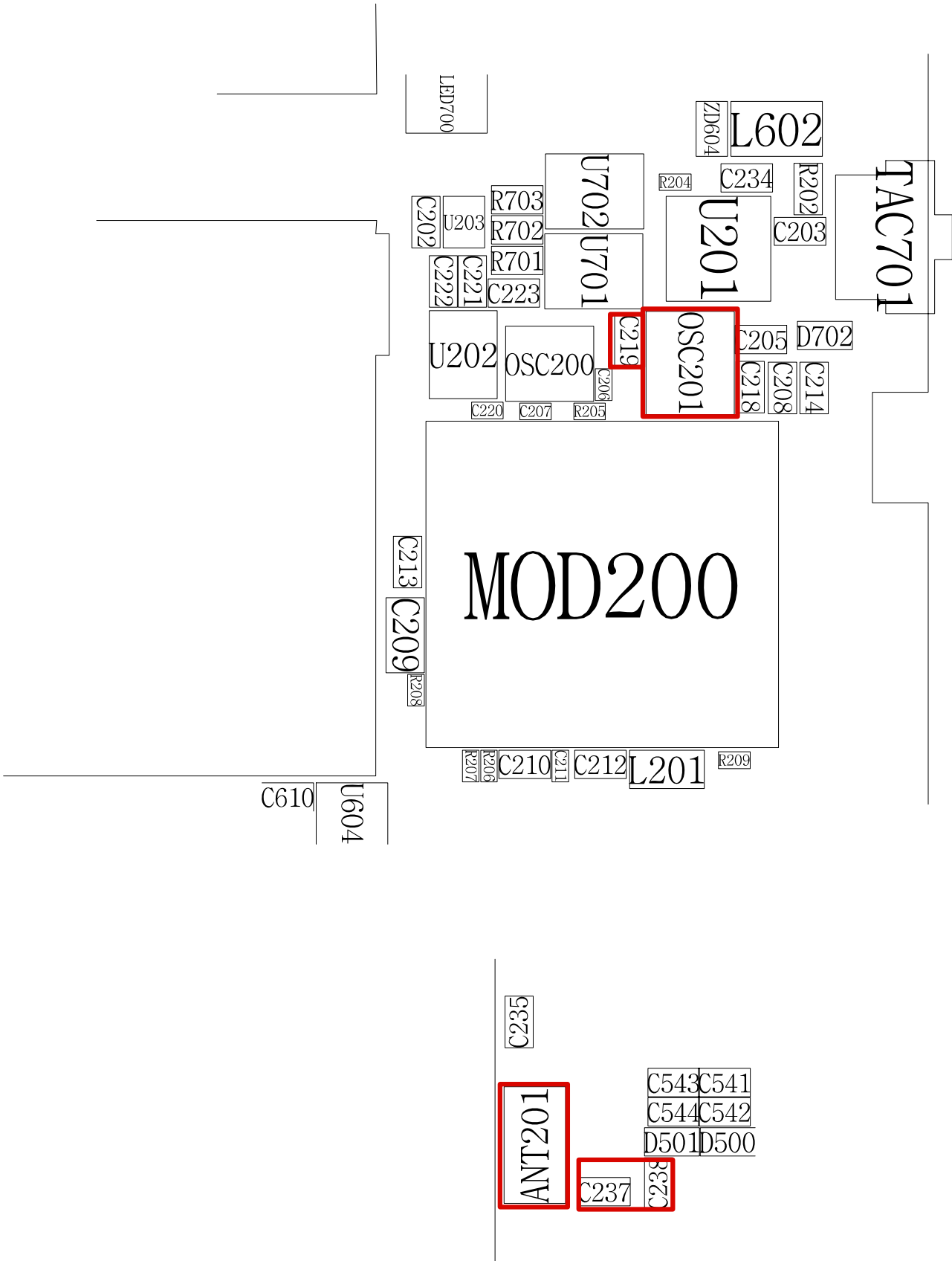




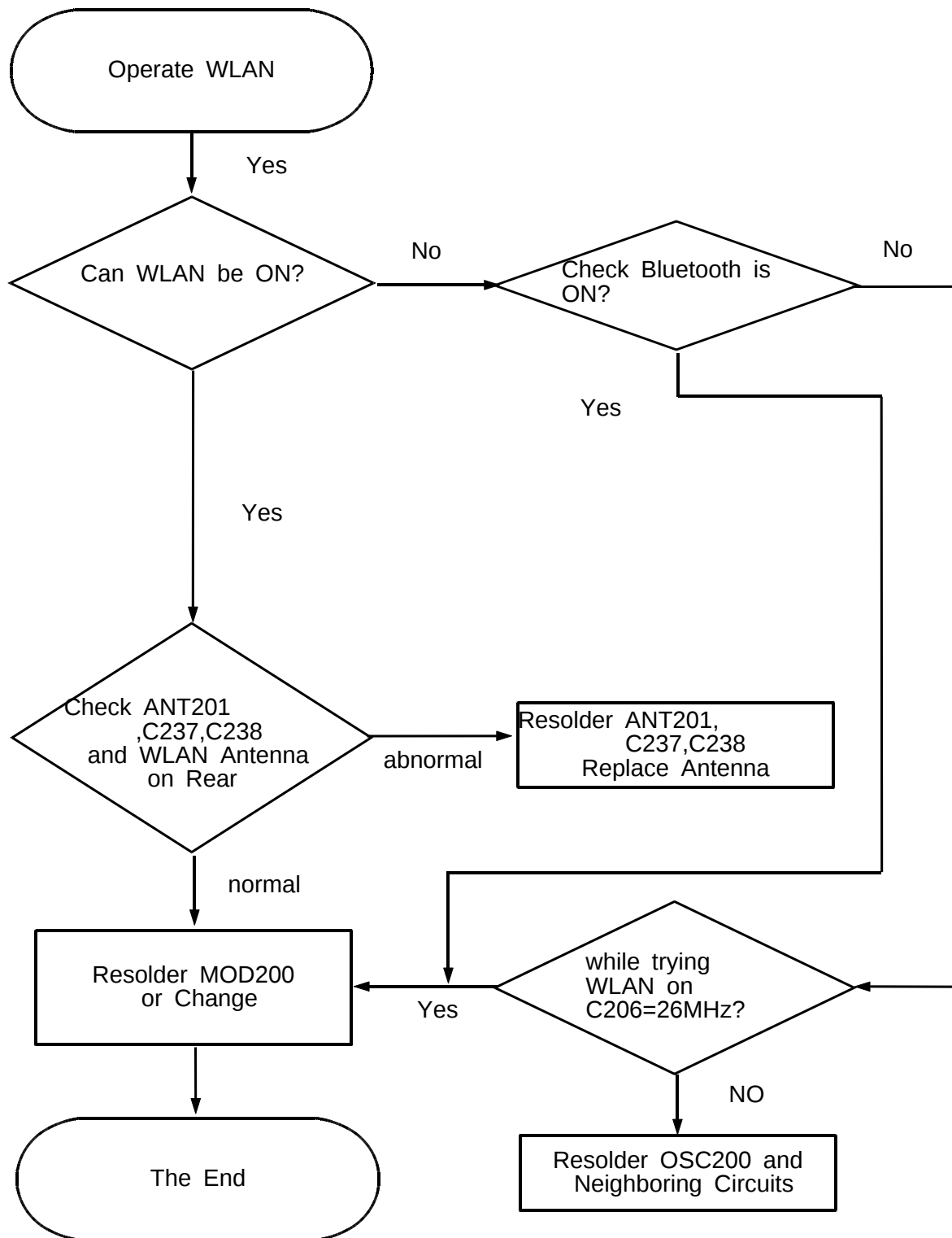
9-25. BLUETOOTH

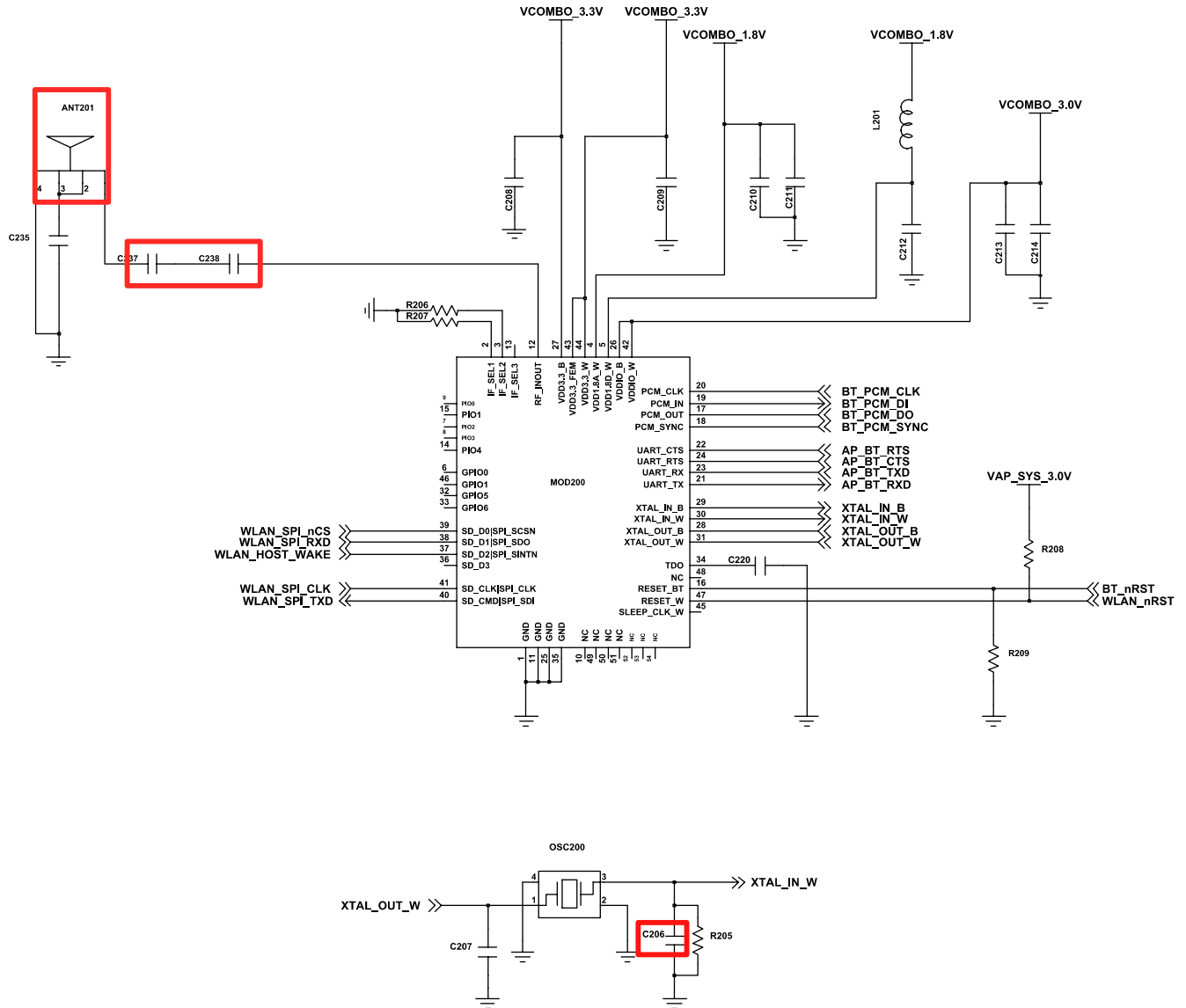


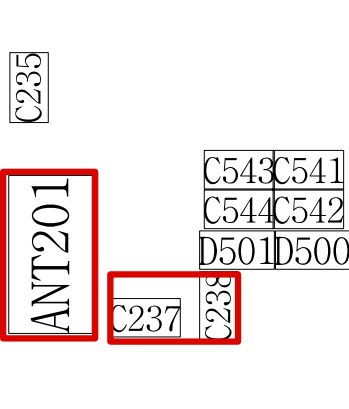
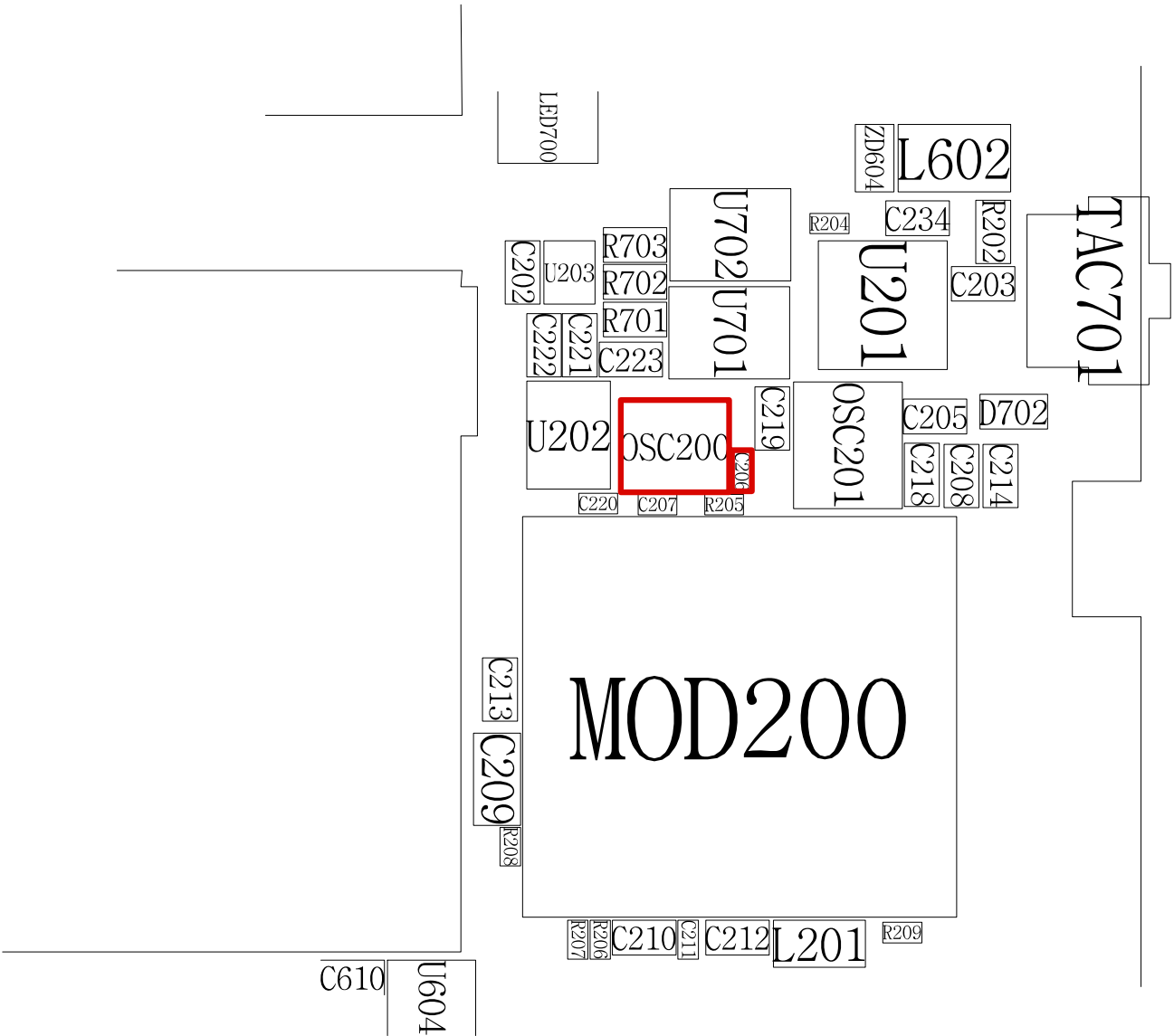




9-26. WLAN

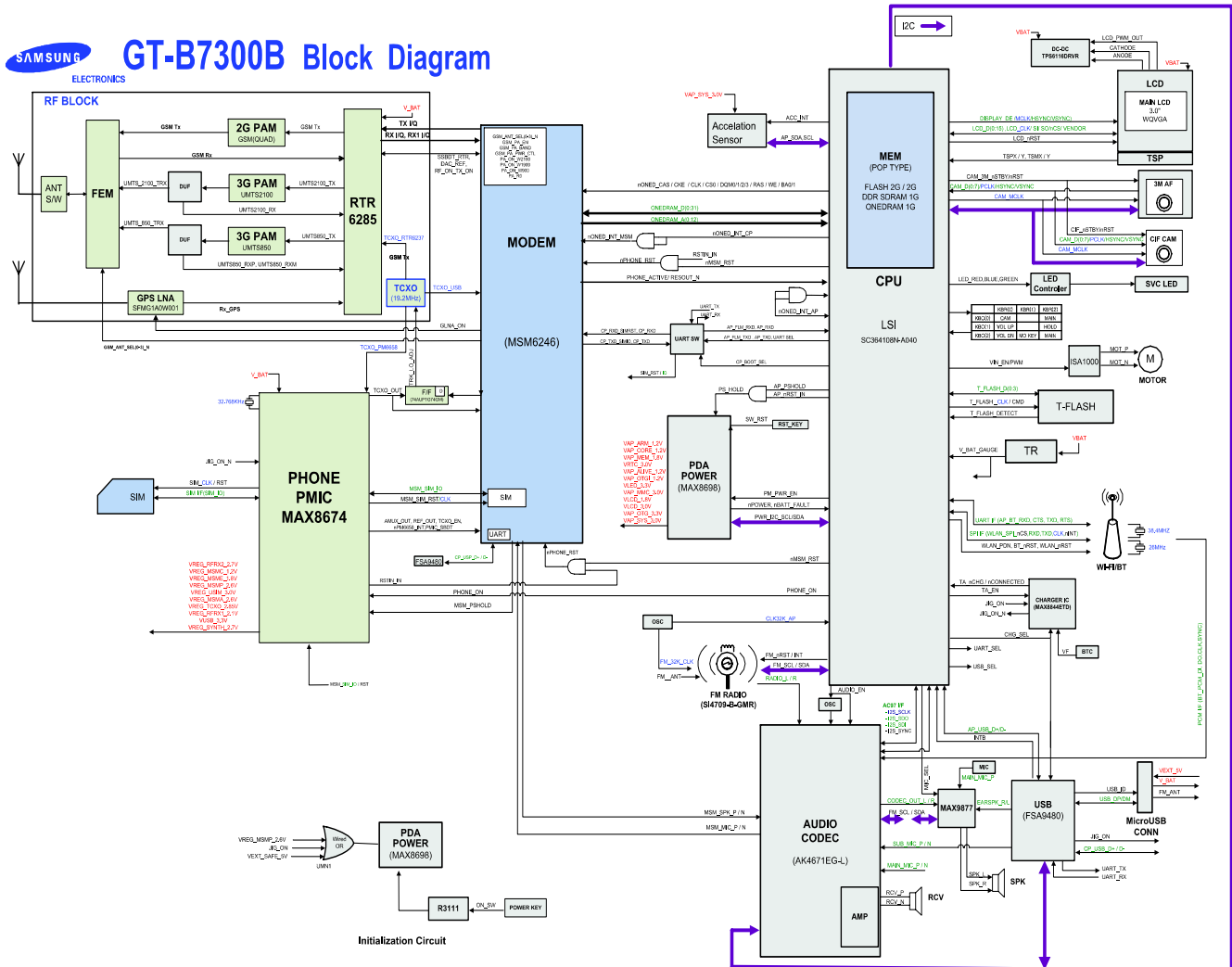






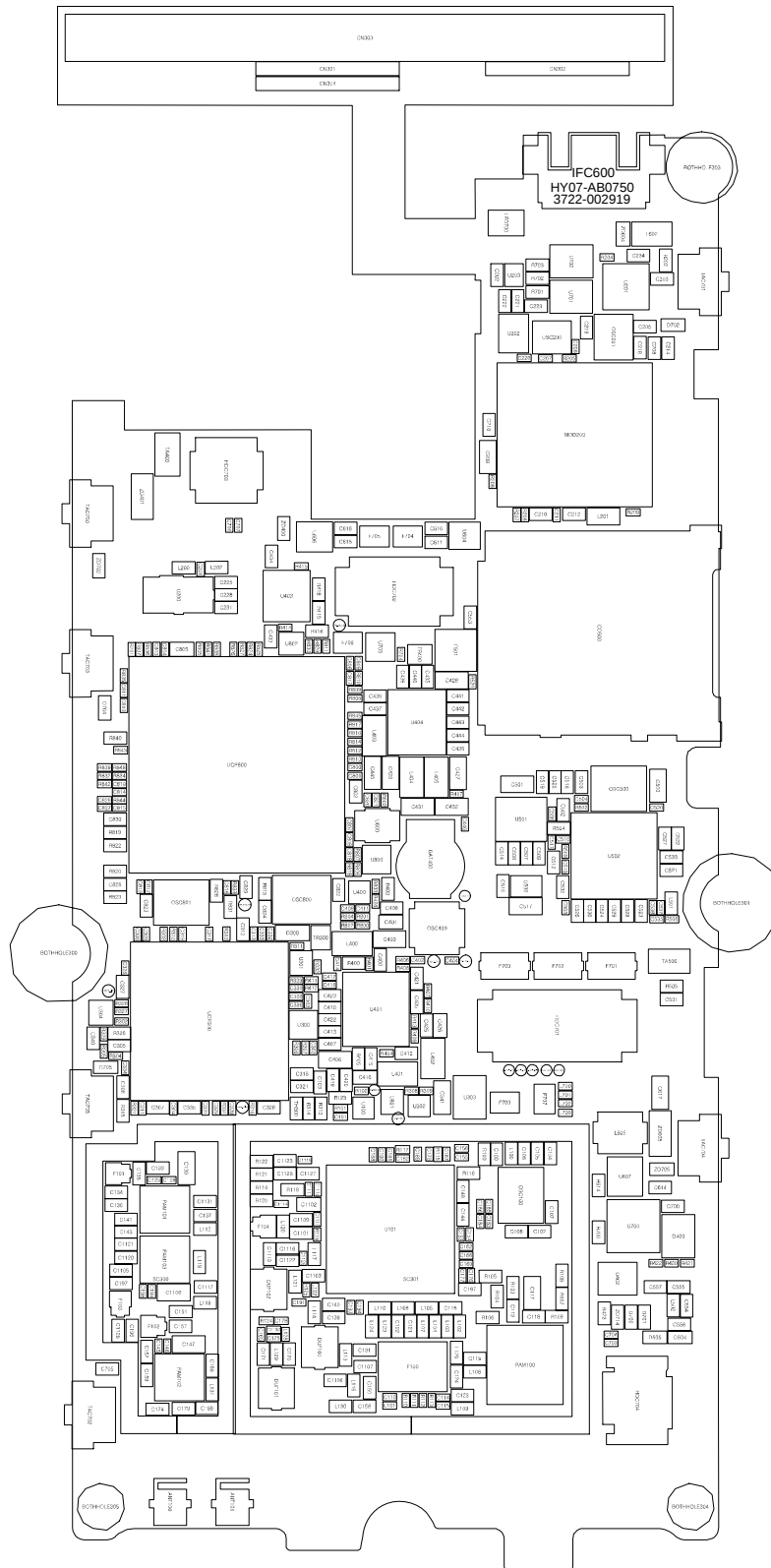
7. Block Diagrams

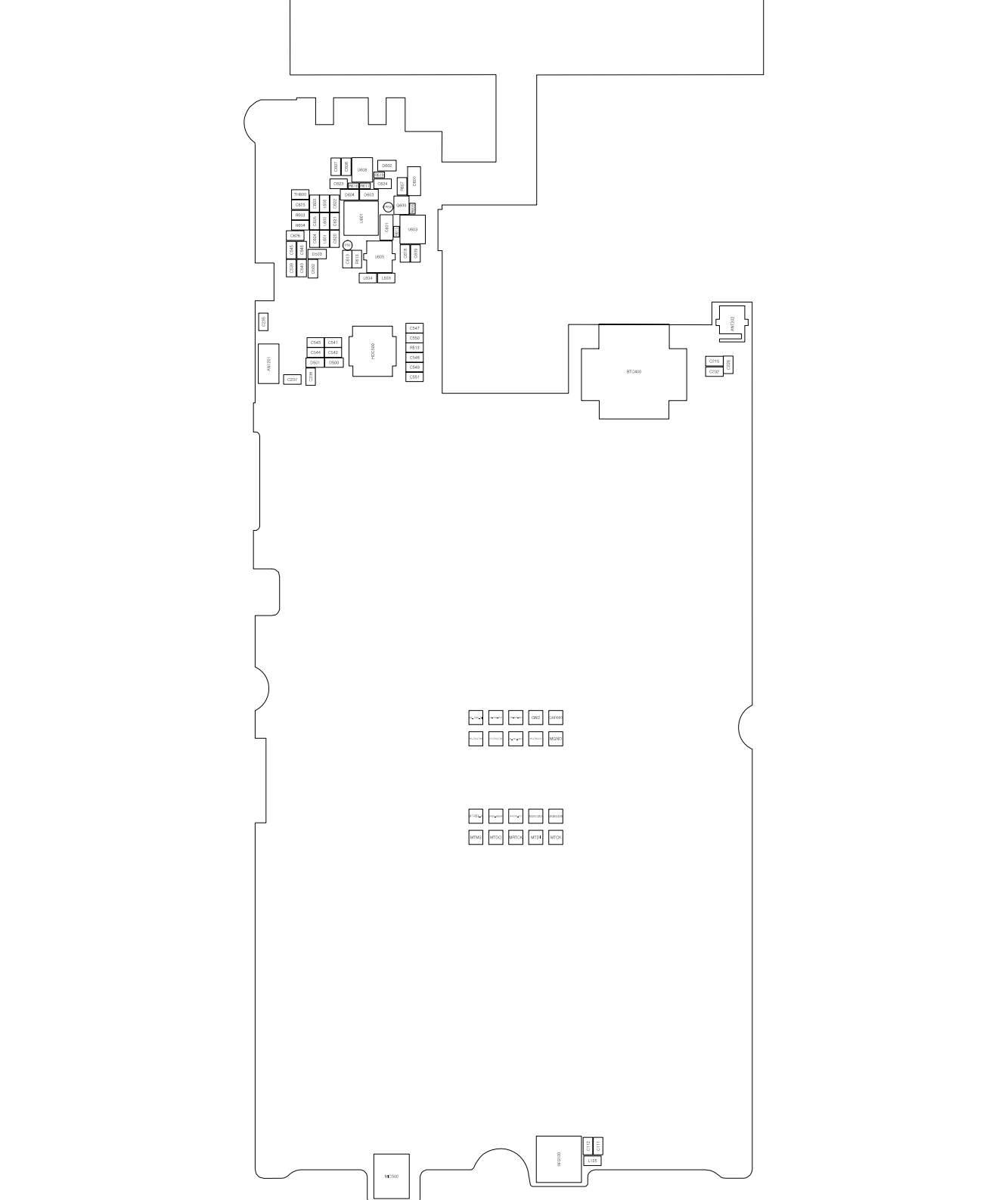
7-1. RF Solution Block Diagram



8. PCB Diagrams

Top



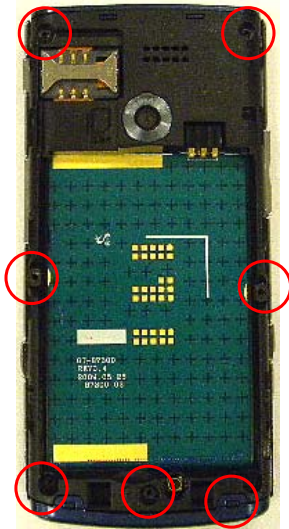


11. Disassembly and Assembly Instructions

11-1. Disassembly

1

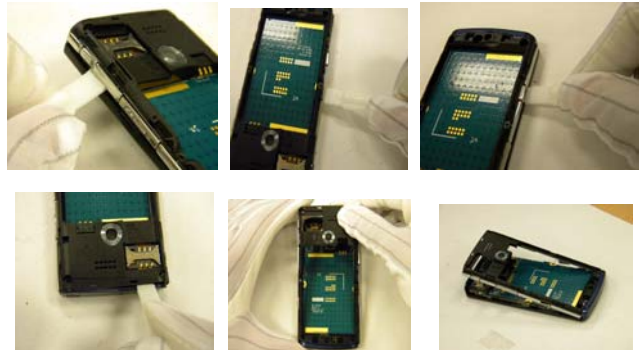
Remove screw at 7 points



1) Be careful not to make scratch and molding damage!

2

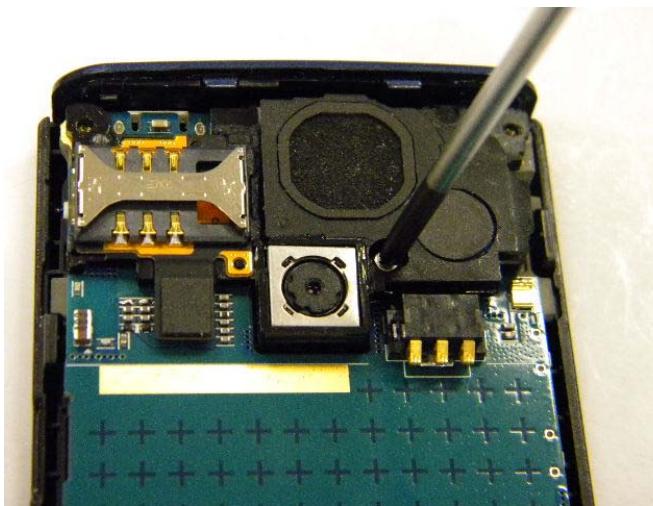
Disjoint the Rear case from the lower part of the SET.



1) Be careful not to make scratch and molding damage!

3

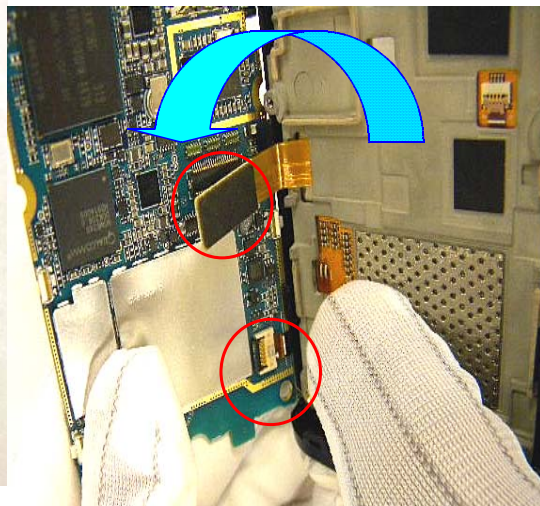
Remove screw at 1 points



1) Be careful not to make scratch and molding damage!

4

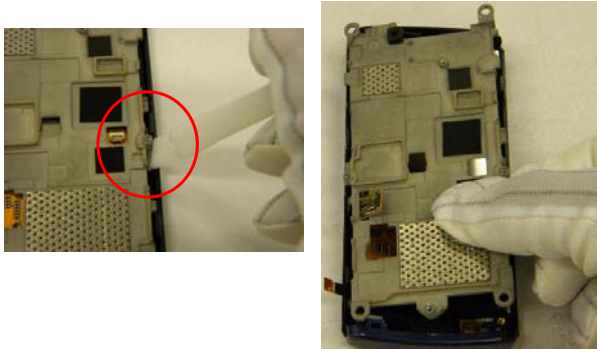
Disassemble the top of the front (2point)



1) Be careful not to make scratch and molding damage!

5

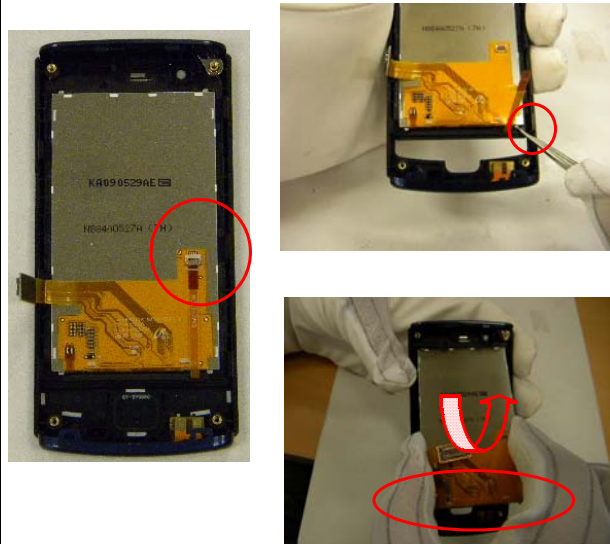
Disassemble LCD Bracket and front cover(1)



- 1) Be careful not to make scratch and molding damage!
- 2) Be careful not to make damage to LCD Connect!

6

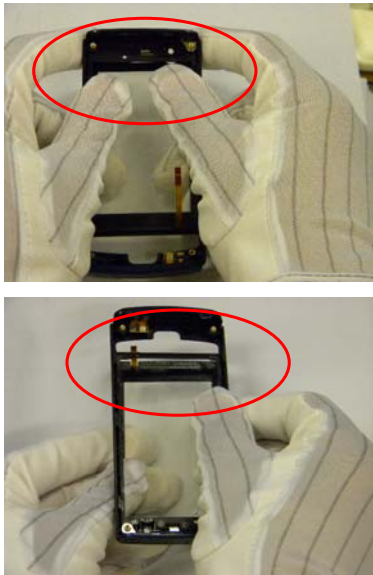
Disassemble Touch key FPCB & LCD(2)



- 1) Be careful not to make scratch and molding damage!

7

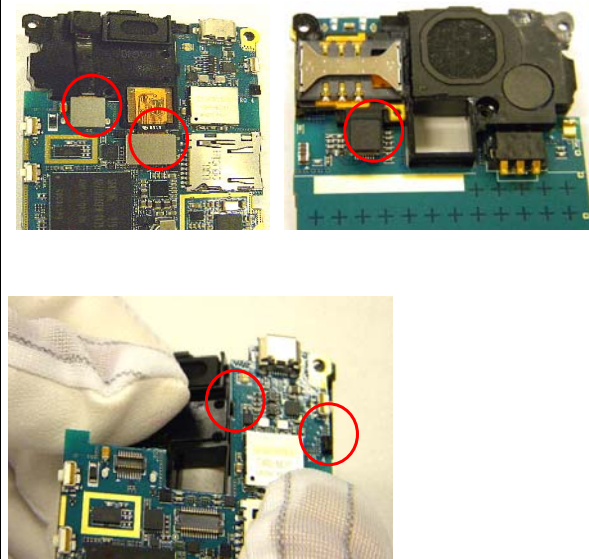
Disassembled TSP Window and front cover(3)



- 1) Be careful not to make scratch and molding damage!

8

disassembled and sim card/VGA&MEGA connect/SPK module

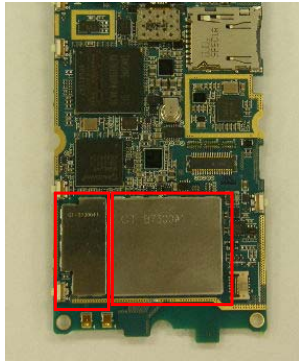


- 1) Be careful not to make scratch and molding damage!
- 2) Be careful not to make damage to connect

11-2 Assembly

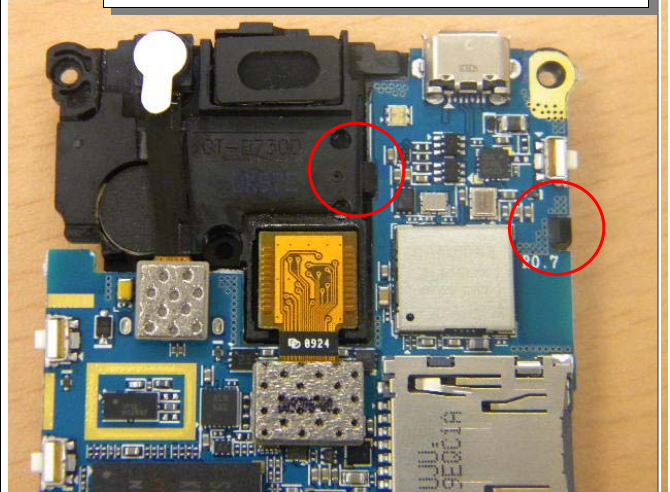
1

1) ASSEMBLE SHIELD CAN.



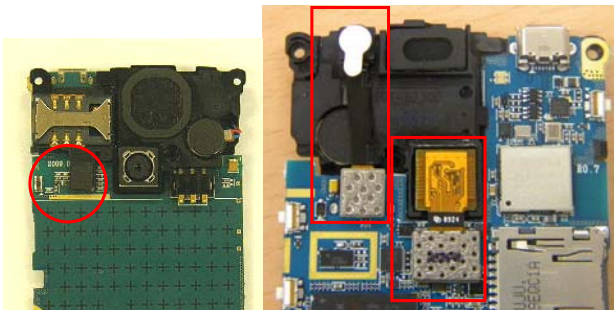
2

1) HOOK OUTSIDE SPEAKER ENCLOSURE HOOKER
2) CONNECT SPEAKER ENCLOSURE CONNECTOR



3

1) SIM SOCKET ENCLOSURE CONNECTOR
2) INSERT CAMERA MODULE
3) CONNECT CAMERA CONNECTOR



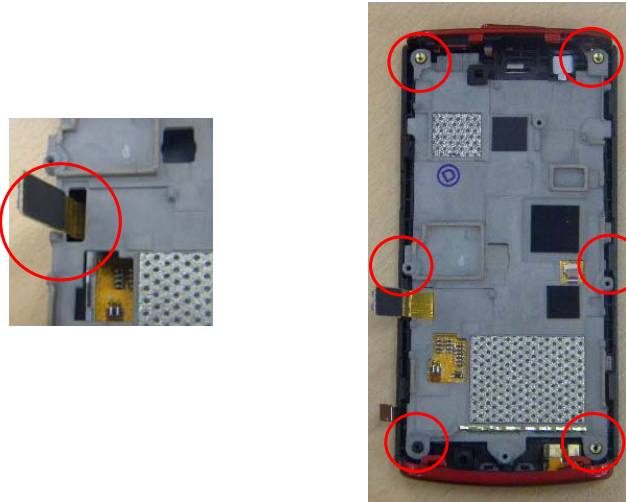
4

1) ATTACH LCD TO FRONT CASE
2) CONNECT TSP FPCB
3) ASSEMBLE KEY PAD



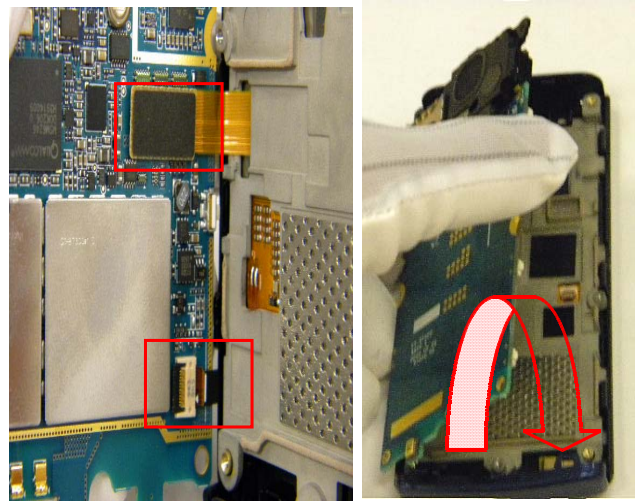
5

- 1) INSERT MAIN CONNECTOR FPCB TO BRACKET HOLE
- 2) ASSEMBLE LCD BRACKET AND PUSH BOTH HOOKS



6

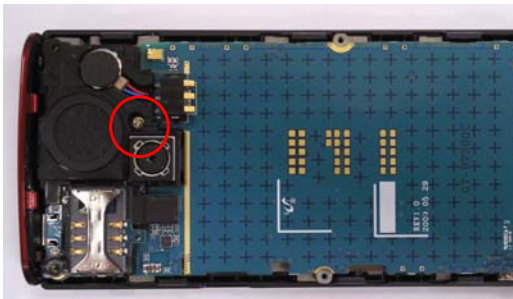
- 1) CONNECT KEY FPCB AND MAIN CONNECTOR
- 2) ASSEMBLE PBA TO FRONT ASS'Y



1) DO NOT DAMAGE GASKET

7

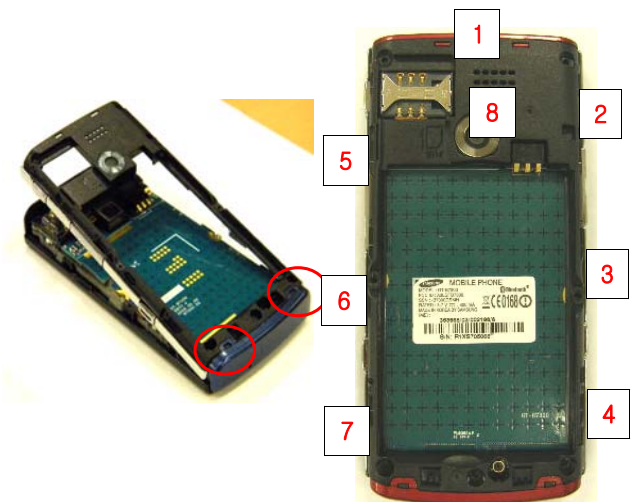
- 1) DRIVE SCREWS AT 1 POINT.



- Screw Size: 1.4x5
- SEC code: 6001-002260
- Screw Torque: 1.1±0.1 Kgf.cm

8

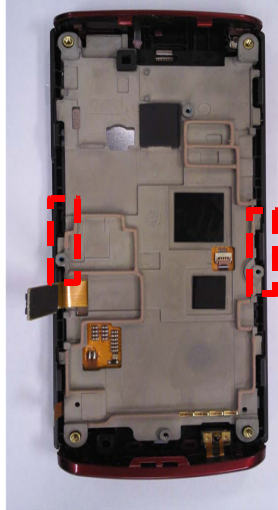
- 1) ASSEMBLE REAR CASE FROM BOTTOM → TOP → SIDE → BOTTOM



1) DO NOT DAMAGE RF SWITCH AND MIC

5

- 1) INSERT MAIN CONNECTOR FPCB TO BRACKET HOLE
- 2) ASSEMBLE LCD BRACKET AND PUSH BOTH HOOKS



6

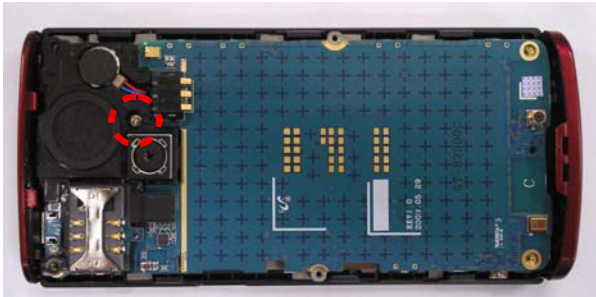
- 1) CONNECT KEY FPCB AND MAIN CONNECTOR
- 2) ASSEMBLE PBA TO FRONT ASS'Y



1) DO NOT DAMAGE GASKET

7

- 1) DRIVE SCREWS AT 1 POINT.



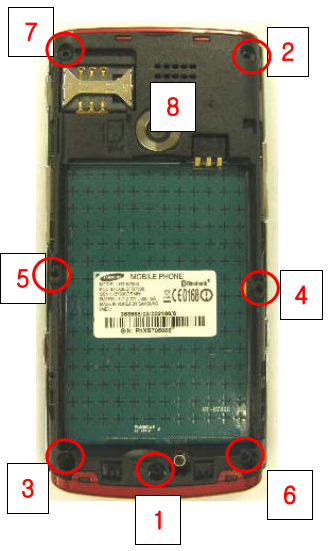
8

- 1) ASSEMBLE REAR CASE FROM BOTTOM → TOP → SIDE → BOTTOM



- Screw Size: 1.4x5
- SEC code: 6001-002260
- Screw Torque: 1.1 ± 0.1 Kgf.cm

1) DO NOT DAMAGE RF SWITCH AND MIC

9	1) DRIVE SCREWS AT 7 POINT.	
	- Screw Size: 1.4x5 - SEC code: 6001-002260 - Screw Torque: 1.1±0.1 Kgf.cm	