

SAMSUNG

CDMA TELEPHONE

SCH-I535

SERVICE *Manual*

CDMA TELEPHONE



CONTENTS

1. Safety Precautions
2. Specification
3. Product Function
4. Exploded View and Parts list
5. MAIN Electrical Parts
6. Level 1 Repair
7. Level 2 Repair
8. Level 3 Repair
9. Reference data

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**SAMSUNG
ELECTRONICS**



2. Specification

2.1 CDMA/LTE General Specification

	US PCS	CDMA	GPS	LTE
Tx Freq. range	1850 ~ 1910MHz	824.04 ~ 848.97MHz		777 ~787 MHz
Rx Freq. range	1930 ~ 1990MHz	869.04 ~ 893.97MHz	1575.42MHz	746 ~ 756 MHz
Channel Bandwidth	1.23MHz	1.23MHz	2MHz	10 MHz
Channel Spacing	50KHz	30KHz	Not Used	180KHz
Number of Channel	1200	832	1	50(# of RB)
Duplex Separation	80MHz	45MHz	-	31MHz
Type of Emission	1M29F9W	1M28F9W	-	8M91G7D (10MHz BW,QPSK) 8M94W7D (10MHz BW,16QAM)
In/Output Impedance	50Ω	50Ω	50Ω	50Ω
Tx Local Frequency	$F_{Tx} * 0.7999$	$F_{Tx} * 1.6666$	-	
Rx Local Frequency	$F_{Rx} * 0.8888$	$F_{Rx} * 2$	$F_{Rx} * 2$	
TCXO Frequency	19.2MHz	19.2MHz	26MHz	38.4MHz
Frequency Stability	$(F_{Rx}-80MHz) \pm 150Hz$	$(F_{Rx}-45MHz) \pm 300Hz$		
Operating Temperature	-30°C ~ +60°C	-30°C ~ +60°C	-30°C ~ +60°C	-30°C ~ +60°C
MAX SAR	0.93 mW/g @ Body SAR	0.42 mW/g @ Body SAR		0.34 mW/g

2-2. GSM General Specification

	GSM850 Phase 1	EGSM 900 Phase 2	DCS1800 Phase 1	PCS1900	WCDMA 2100
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
ARFCN range	128~251	0~124 & 975~1023	512~885	512~810	UL:9612~9888 DL:10562~10838
Tx/Rx spacing	45MHz	45MHz	95MHz	80MHz	190MHz
Mod. Bit rate/ Bit Period	270.833kbps 3.692us	270.833kbps 3.692us	270.833kbps 3.692us	270.833kbps 3.692us	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
Modulation	0.3GMSK	0.3GMSK	0.3GMSK	0.3GMSK	QPSK HQPSK
MS Power	33~5dBm	33~5dBm	30~0dBm	30~0dBm	24~-50dBm
Power Class	5pcl ~ 19pcl	5pcl ~ 19pcl	0pcl ~ 15pcl	0pcl ~ 15pcl	³ (max+24dBm)
Sensitivity	-102dBm	-102dBm	-100dBm	-100dBm	-106.7dBm
TDMA Mux	8	8	8	8	
Cell Radius	35Km	35Km	2Km	2Km	2Km

2-3. 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 4.0 OS
- CDMA/PCS 850/1900 MHz, EVDO, LTE B13, Global Roaming
- GSM Quad, EDGE, WCDMA2100
- HSPA+ 21Mbps, LTE 100Mbps
- 8MP AF with LED Flash , 1.9MP Front camera
- 4.8" Super AMOLED plus, Full touch bar
- A-GPS, Glonass / BT v4.0 / USB v2.0 / WiFi (802.11 a/b/g/n 2.4+5GHz)
- Full-HD Recording (1080p)
- Sensors: Accelerometer, Geo-magnetic, Gyro-sensor, Light Sensor, Proximity Sensor, Barometer
- TouchWiz 4.0 UI
- NFC

9. Reference Abbreviate

Reference Abbreviate

- **AAC**: Advanced Audio Coding.
- **AVC** : Advanced Video Coding.
- **BER** : Bit Error Rate
- **BPSK**: Binary Phase Shift Keying
- **CA** : Conditional Access
- **CDM** : Code Division Multiplexing
- **C/I** : Carrier to Interference
- **DMB** : Digital Multimedia Broadcasting
- **EN** : European Standard
- **ES** : Elementary Stream
- **ETSI**: European Telecommunications Standards Institute
- **MPEG**: Moving Picture Experts Group
- **PN** : Pseudo-random Noise
- **PS** : Pilot Symbol
- **QPSK**: Quadrature Phase Shift Keying
- **RS** : Reed-Solomon
- **SI** : Service Information
- **TDM** : Time Division Multiplexing
- **TS** : Transport Stream

1. Safety Precautions

1-1. Repair Precaution

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.

6. Level 1 Repair

6-1. S/W Download

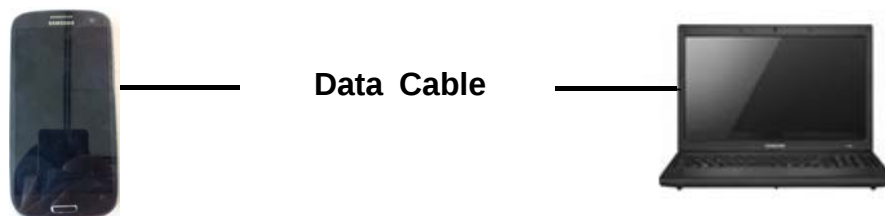
6-1-1. Pre-require for S/W Downloading

- Download Program or later version
- SCH-I535 Mobile Phone
- Data Cable

- Service Parts

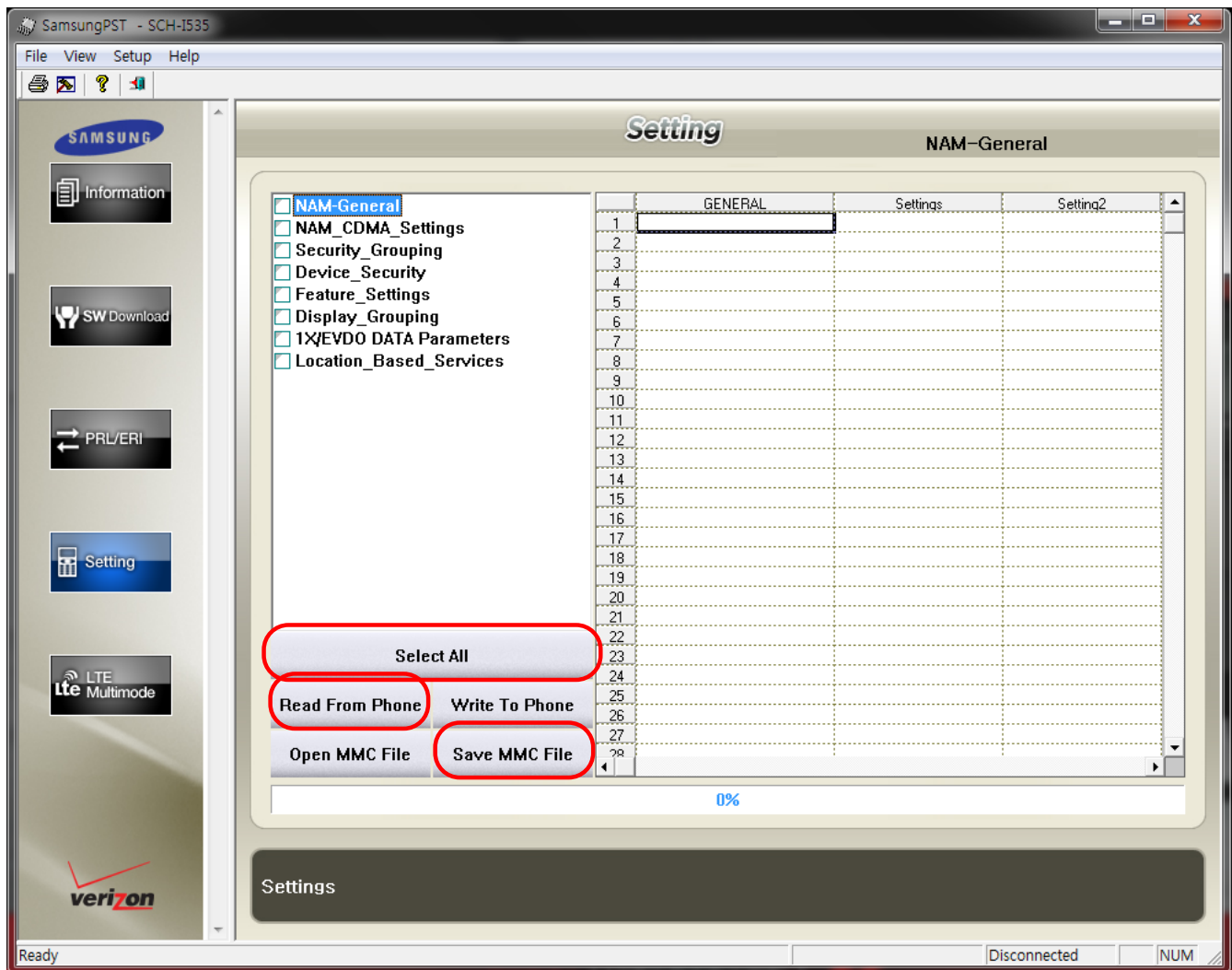
Anyway Jig	Adaptor	IF Cable	RF Cable
			
GH99-36900B	GH99-38251A	GH39-01290A	GH39-00985A

※ Settings



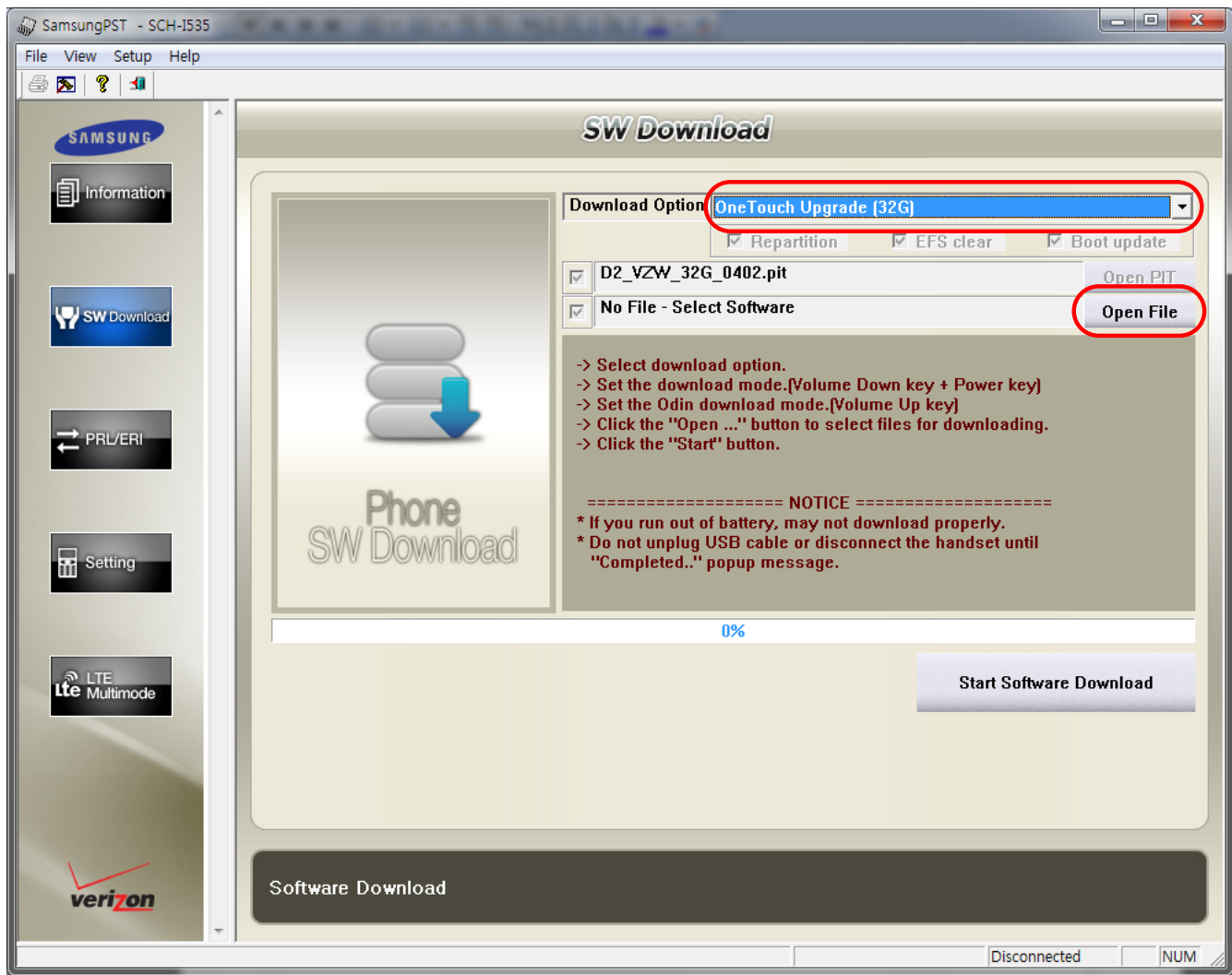
6-1-2. Manual Back up phone setting

- Booting a phone and change DM mode. (Key String : *#7284#)
- Press "Setting" button on the tool bar in the left side of window.
- Select the "Slect All"
- Select the "Read From Phone"
- Select the "Save MMC File" and make the backup file.
(ex. d:\backup\I535_backup...)



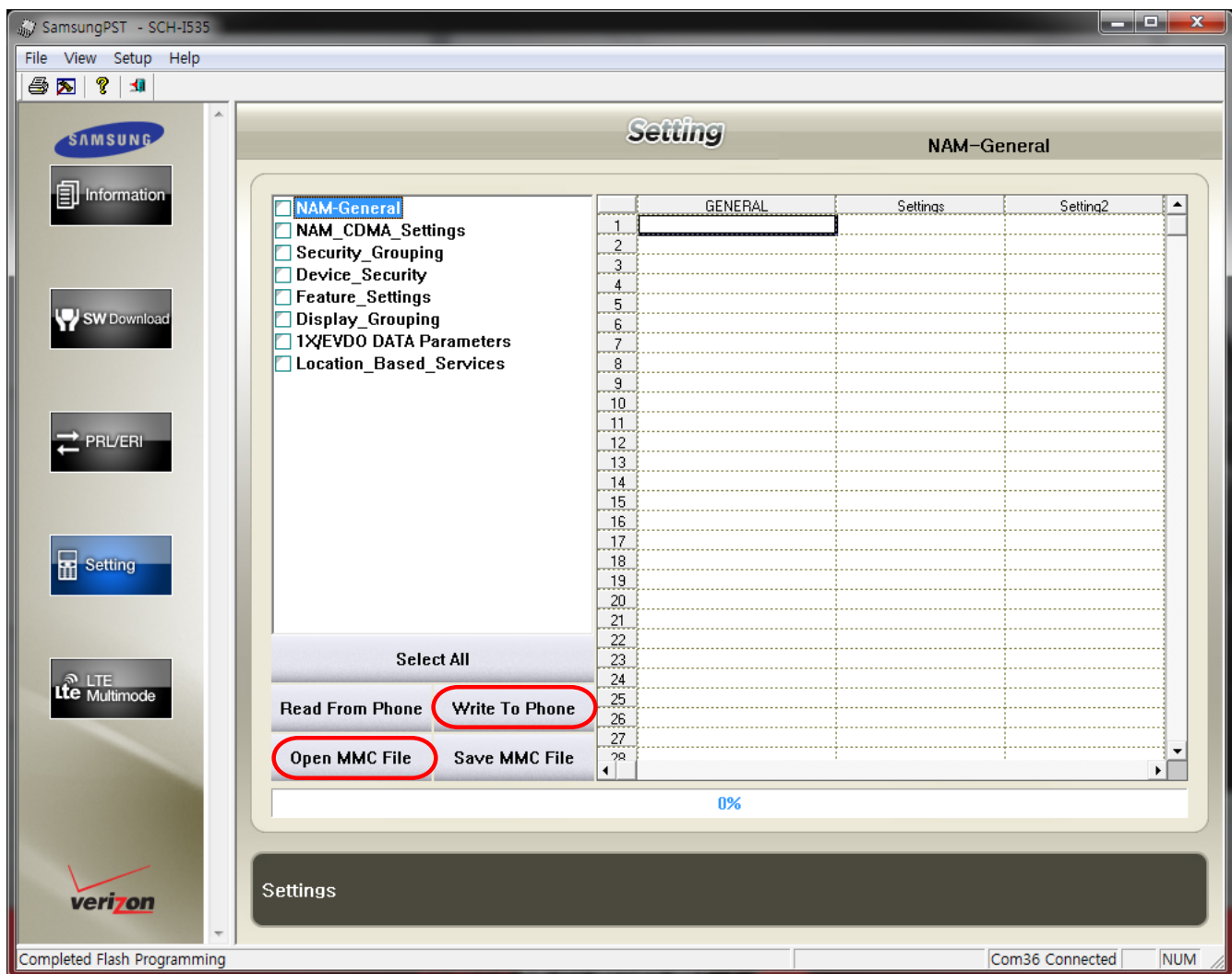
6-1-3. Manual Download S/W

- In power off state, press "Vol Down Key + Home key + Power Key" and press "Vol Up Key" to power up the phone with emergency download mode.
- Press "SW Download" button on the tool bar in the left side of window.
- Select the "Download Option".
If your device is 32G eMMC, select "OneTouch Upgrade[32G]".
If your device is 16G eMMC, select "OneTouch Upgrade[16G]".
- Open the binary.
- Download the binary.
- If finishing downloading, you can see "Completed Flash Programming" message
(Erasing flash can be performed automatically.)
(If you have an error on your handset LCD, detach the battery to turn off the phone.)



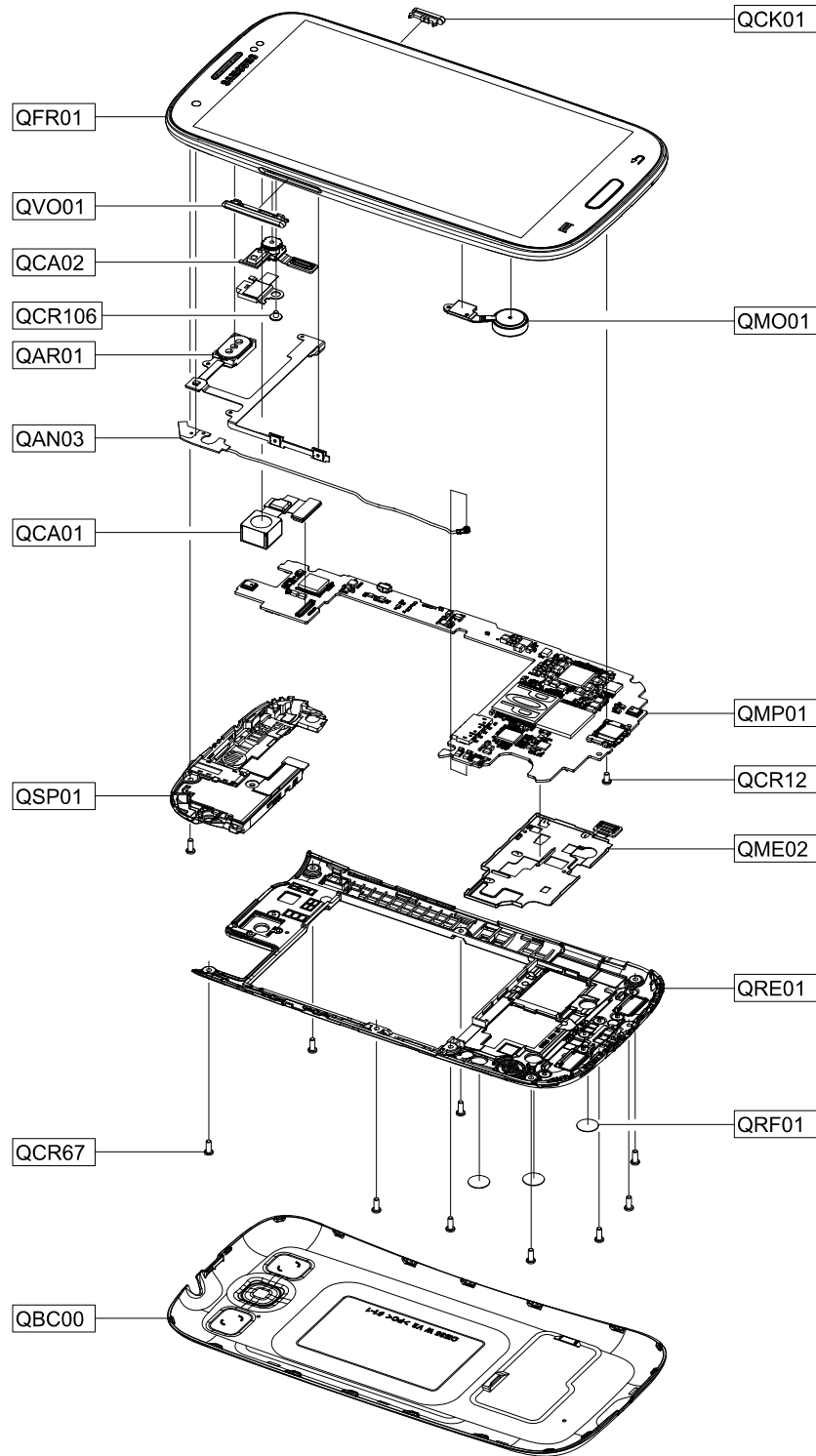
6-1-4. Restore Settings.

- Press "Setting" button on the tool bar in the left side of window.
- Verify all the items are checked.
- Press "Open MMC File" to read saved items.
- Press "Write To Phone" to write the saved items.



4. Exploded View and Parts List

4-1. Cellular phone Exploded View



4-2. Cellular phone Parts list

QCR12	SCREW-MACHINE	6001-001530
QCR67	SCREW-MACHINE	6001-002083
QCR106	SCREW-MACHINE	6001-002905
QRF01	TAPE ETC-RF HOLE	GH02-00951B
QMO01	MOTOR LINEAR VIBRATION-LINEAR MOTOT FPCB	GH31-00585A
QAR01	MODULE-GT_I9300 RCV+LED+V/K	GH59-12217A
QSP01	MODULE-SPK+EARJACK (SCH_I535)	GH59-12283B
QAN03	UNIT-ANT SUB PCB ASSY(SCH_I535)	GH59-12416A
QCK01	KEY-POWER	GH64-00356B
QVO01	KEY-VOLUME	GH64-00403B
QMP01	A/S ASSY-PBA MAIN (VZW)	GH82-06684A
QCA01	ASSY CAMERA-8M 1/3.2 LSI(GT_I9300)	GH96-05593A
QME02	ASSY MODULE-SUB PBA+BRACKET(SCH_I535)	GH96-05723A
QCA02	ASSY CAMERA-1.9M MODULE(SGH_I747)	GH96-05772A
QFR01	MEA FRONT-OCTA LCD ASSY(SVC)_WHITE	GH97-13729B
QRE01	ASSY CASE-REAR	GH98-23218B
QBC00	ASSY COVER-BATT	GH98-23219B

5. MAIN Electrical Parts List

SEC CODE	Design LOC	Description
0403-001688	D1100	USFZ5.6V-RTK/H
0403-001688	ZD1101	USFZ5.6V-RTK/H
0403-001832	ZD1404	BZX884-C5V6
0404-001172	C1127	RB520S-30
0406-001267	ZD1100	RCLAMP0521P
0406-001327	ZD1401	PESD5V0L5UF
0406-001369	U1108	RCLAMP3654P.TCT
0406-001506	ZD1000	UCLAMP0541Z
0406-001506	ZD1001	UCLAMP0541Z
0406-001506	ZD1002	UCLAMP0541Z
0406-001506	ZD1003	UCLAMP0541Z
0406-001506	ZD1004	UCLAMP0541Z
0406-001506	ZD1005	UCLAMP0541Z
0406-001506	ZD1007	UCLAMP0541Z
0406-001506	ZD1008	UCLAMP0541Z
0406-001506	ZD1012	UCLAMP0541Z
0406-001506	ZD1400	UCLAMP0541Z
0406-001506	ZD1402	UCLAMP0541Z
0406-001531	D1101	PTVS18VS1UR
0504-001113	Q1300	DTC144EM
0505-002341	Q700	SI1013X-T1-GE3
0505-002388	Q600	RUE003N02
0505-002388	Q601	RUE003N02
0505-002652	Q1102	RUM002N02GT2L
0505-002748	Q1103	FDMC510P
0601-003079	LED1300	SPFCW04301BLS0D0T0
0801-003449	U1203	74AUP1T34
1001-001546	U1305	STG5223QTR
1001-001726	U1106	FSA9485UCX
1001-001736	U100	XM0825SE-BL0901
1001-001736	U105	XM0825SE-BL0901
1001-001753	U101	XM0831SZ-AL1001
1001-001770	C108	RF1602S
1001-001771	U401	XM0831SY-AL1201
1001-001771	U402	XM0831SY-AL1201
1003-002415	U1104	ISA1000A

1003-002469	U1401	FXMA2102UMX
1105-002388	UCP700UP	K3PE0E000A-XGC2
1107-002139	UME700	KLMBG8FE4B-B001
1201-002608	U501	MAX2659ELT
1201-003065	PAM400	AWC6323RM47Q7
1201-003191	PAM301	ACPM-5013-SG1
1201-003315	C1038	TPA2039D1YFF
1201-003338	U103	TQM7M9023
1201-003408	PAM300	ACPM-5002-SG1
1202-001119	U1307	MIC842LYC5
1202-001120	U1200	NCX2200GM
1202-001120	U901	NCX2200GM
1202-001121	U1004	NCX2220GM
1203-004818	U1003	RP103K181D-TR
1203-004819	U1001	RP103K281D-TR
1203-004819	U1300	RP103K281D-TR
1203-004819	U1304	RP103K281D-TR
1203-005373	U1109	NCP347MTAHTBG
1203-005485	U1105	MIC5365-3.0YMT
1203-005512	U1208	MIC5365-3.3YMT
1203-006860	U1308	MAX8952EWE-T
1203-006874	U1412	RP154L006A-E2
1203-007142	U1202	AAT2146MIJS-0.6-T1
1203-007196	U1000	RP103K221D-TR
1203-007214	U1100	MAX17048G+T
1203-007225	U900	PM8921
1203-007256	U1306	AAT1290AIWO-T1
1203-007269	U1206	STOD13CMTPUR
1203-007324	U1301	RP114K121D-TR
1203-007324	U1302	RP114K121D-TR
1203-007380	U1107	SMB347SET-1694Y
1204-003328	U1002	ES305B
1204-003364	U1303	S5C73M3X01-Y040
1205-004165	U200	RTR8600
1205-004211	U500	RTR8605
1205-004233	U1400	SII9244BO
1205-004444	R1003	WCD9310

1205-004465	UCP700	MSM8960
1205-004474	C1121	FPF1048BUCX
1205-004474	U1321	FPF1048BUCX
1205-004510	U601	PN65NET1/C3
1209-002096	U1103	BMP182
1209-002124	C1104	AK8963C
1209-002132	U1102	MPU-6050
1404-001724	TH100	NCP03WF104F05RL
1404-001724	TH400	NCP03WF104F05RL
1404-001724	TH700	NCP03WF104F05RL
1404-001724	TH901	NCP03WF104F05RL
1405-001231	V400	ASES12U020R2
1405-001296	V1000	IECS0505C040FR
2007-000168	R1102	RC1005J474CS
2007-001284	R1120	RC1005J4R7CS
2007-001317	R743	RC1005J911CS
2007-001317	R754	RC1005J911CS
2007-003015	R1000	MCR01MZP5J2R2
2007-003015	R1001	MCR01MZP5J2R2
2007-007136	R207	RC1005F472CS
2007-007136	R506	RC1005F472CS
2007-007156	R1127	RC1005J1R0CS
2007-007484	R752	MCR01MZP5F4641
2007-007489	R1206	RK73H1ETP1503F
2007-007489	R1408	RK73H1ETP1503F
2007-007489	R1409	RK73H1ETP1503F
2007-007538	R1211	RK73H1ETP5602F
2007-007741	R1403	M5534204B10E0R
2007-007741	R737	M5534204B10E0R
2007-007741	R916	M5534204B10E0R
2007-007741	R919	M5534204B10E0R
2007-007766	R614	RK73H1ETP2001F
2007-007798	R1313	RC1005F0100CS
2007-007875	R1330	RK73H1ETP1603F
2007-008043	R303	MCR006YZPJ820
2007-008045	R1111	ERJ1GEJ101C
2007-008045	R1315	ERJ1GEJ101C

2007-008045	R406	ERJ1GEJ101C
2007-008045	R407	ERJ1GEJ101C
2007-008045	R611	ERJ1GEJ101C
2007-008045	R921	ERJ1GEJ101C
2007-008048	R1405	ERJ1GENJ201X
2007-008048	R1406	ERJ1GENJ201X
2007-008048	R602	ERJ1GENJ201X
2007-008048	R736	ERJ1GENJ201X
2007-008052	R1100	ERJ1GENJ472X
2007-008052	R1113	ERJ1GENJ472X
2007-008052	R1200	ERJ1GENJ472X
2007-008052	R1307	ERJ1GENJ472X
2007-008052	R1311	ERJ1GENJ472X
2007-008052	R1401	ERJ1GENJ472X
2007-008052	R1402	ERJ1GENJ472X
2007-008052	R1411	ERJ1GENJ472X
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2007-008052	R741	ERJ1GENJ472X
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2007-008211	R718	MCR006YZPJ200
2007-008312	R1024	RC1005F394CS
2007-008403	R1106	RC1005F364CS
2007-008419	R1013	ERJ1GEJ102C
2007-008419	R1325	ERJ1GEJ102C

2007-008419	R616	ERJ1GEJ102C
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2007-008420	R1020	RMC-1/20-330JPA
2007-008420	R1201	RMC-1/20-330JPA
2007-008420	R1425	RMC-1/20-330JPA
2007-008477	R1306	RK73B1HTTB471J
2007-008477	R1314	RK73B1HTTB471J
2007-008483	R101	RMC1/20473JPA
2007-008483	R1416	RMC1/20473JPA
2007-008483	R1418	RMC1/20473JPA
2007-008483	R1419	RMC1/20473JPA
2007-008483	R1421	RMC1/20473JPA
2007-008483	R1422	RMC1/20473JPA
2007-008483	R400	RMC1/20473JPA
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2007-008483	R608	RMC1/20473JPA
2007-008483	R911	RMC1/20473JPA
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2007-008516	R1309	ERJ1GEJ103C
2007-008516	R1312	ERJ1GEJ103C
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2007-008516	R1323	ERJ1GEJ103C
2007-008516	R1324	ERJ1GEJ103C
2007-008516	R1329	ERJ1GEJ103C
2007-008516	R1404	ERJ1GEJ103C
2007-008516	R1407	ERJ1GEJ103C
2007-008516	R1410	ERJ1GEJ103C
2007-008516	R1420	ERJ1GEJ103C
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2007-008516	R604	ERJ1GEJ103C

2007-008516	R714	ERJ1GEJ103C
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2007-008516	R747	ERJ1GEJ103C
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2007-008531	R1018	MCR006MZPJ0100
2007-008531	R1026	MCR006MZPJ0100
2007-008531	R1121	MCR006MZPJ0100
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2007-008588	R1008	MCR006YZPJ222
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2007-008588	R732	MCR006YZPJ222
2007-008588	R733	MCR006YZPJ222
2007-008588	R734	MCR006YZPJ222
2007-008588	R735	MCR006YZPJ222
2007-008774	R1117	ERJ1GEJ2R2C
2007-008774	R1119	ERJ1GEJ2R2C
2007-008774	R1124	ERJ1GEJ2R2C
2007-008774	R1125	ERJ1GEJ2R2C
2007-008774	R925	ERJ1GEJ2R2C
2007-008786	R1204	RMC1/20K333JTP
2007-008806	R300	RC0603J510CS
2007-008816	R1319	MCR006MZPJ822
2007-009084	R1016	MCR006YZPJ105

2007-009084	R1022	MCR006YZPJ105
2007-009084	R1023	MCR006YZPJ105
2007-009084	R1025	MCR006YZPJ105
2007-009084	R1115	MCR006YZPJ105
2007-009084	R1122	MCR006YZPJ105
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2703-003917	C305	CML0306-3N3-BNH
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2703-004038	C132	LQP03TN1N5B02D
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2801-005107	OSC600	SQBD03740M2HBG
2801-005149	OSC700	SQ2D02700D2JCG
2801-005165	OSC900	CT2520DB19200C0FLHAF
2802-001287	OSC601	XRCGB27M120F3M10R0
2901-001625	F1302	ICMEF112P900MFR
2901-001634	F1400	ICMEF112P500MFR
2901-001647	F1300	ICMEF214P101MFR
2901-001647	F1301	ICMEF214P101MFR
2901-001678	F1201	EMI4183
2901-001679	F1200	EMI4182
2904-001668	F101	SAFE836MAL0F00R14
2904-001668	F400	SAFE836MAL0F00R14
2904-001739	F300	FAR-F6KA-1G8800-L4AFHZ
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2904-002073	F301	857031

2904-002076	F302	F5KA782M0D4VPH
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2911-000181	F100	LMSWBFGE-B29
2911-000187	DUF400	ACFM-7110-SG2
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3301-001986	L200	BLM15PD600SN1
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3705-001708	RFS500	MS-156C
3705-001731	RFS100	KMS-560-002-BEF
3705-001731	RFS300	KMS-560-002-BEF
3705-001731	RFS400	KMS-560-002-BEF
3711-006843	HDC1200	14-5802-044-002-829
3711-006923	HDC1400	14-5802-016-002-829
3711-007071	HEA1300	AXE622124AW1
3711-007173	CN1400	AXE612124

3711-007295	HDC1300	AXE634124AW1
3711-007841	BTC1100	202-03060-00440
3711-008151	HDC1000	14-5804-016-000-829+
3711-008157	HDC1001	14-5804-010-000-829+
3712-001373	ANT1100	HJ-BCT-02Y
3712-001373	ANT1101	HJ-BCT-02Y
3712-001373	CLP1102	HJ-BCT-02Y
3712-001375	ANT100	HJ-ICT-06Y
3712-001375	ANT101	HJ-ICT-06Y
3712-001375	ANT102	HJ-ICT-06Y
3712-001375	ANT400	HJ-ICT-06Y
3712-001375	ANT401	HJ-ICT-06Y
3712-001375	ANT402	HJ-ICT-06Y
3712-001375	ANT500	HJ-ICT-06Y
3712-001375	ANT600	HJ-ICT-06Y
3712-001378	CON1100	HJ-ICT-03Y
3712-001378	CON1101	HJ-ICT-03Y
3712-001412	CLP1000	HJ-ICT-07Y
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3722-003512	IFC1100	2108171-3
4709-002109	U600	SWB-B53
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GH70-07467A	SC1400	PTC3121N
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GH98-23607A	SC1413	SHIELDCAN-C1-BOT

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0403-001688	ZD801	DIODE-ZENER
0403-001832	ZD900	DIODE-ZENER
0404-001172	D801	DIODE-SCHOTTKY
0406-001267	ZD706	DIODE-TVS
0406-001267	ZD707	DIODE-TVS
0406-001267	ZD800	DIODE-TVS
0406-001327	ZD400	DIODE-TVS
0406-001327	ZD701	DIODE-TVS
0406-001369	U812	DIODE-TVS
0406-001375	ZD702	DIODE-TVS
0406-001375	ZD703	DIODE-TVS
0406-001375	ZD704	DIODE-TVS
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0406-001375	ZD710	DIODE-TVS
0406-001526	ZD802	DIODE-TVS
0504-001113	Q1000	TR-DIGITAL
0505-002341	Q400	FET-SILICON
0505-002388	Q300	FET-SILICON
0505-002388	Q301	FET-SILICON
0505-002652	Q804	FET-SILICON
0505-002748	Q805	FET-SILICON
0601-003079	LED1000	LED
0801-003031	U904	IC-CMOS LOGIC
1001-001536	F105	IC-RF SWITCH
1001-001546	U1001	IC-ANALOG SWITCH
1001-001726	U810	IC-ANALOG MULTIPLEX
1001-001736	U101	IC-ANALOG SWITCH
1003-002415	U804	IC-MOTOR DRIVER
1003-002469	U911	IC-LEVEL DRIVER
1105-002305	UCP400UP	IC-DDR2 SDRAM
1107-002139	UME400	IC-FLASH MEMORY
1201-002608	U300	IC-GPS AMP
1201-003199	PA105	IC-POWER AMP
1201-003315	U702	IC-AUDIO AMP

1201-003360	PA103	IC-POWER AMP
1201-003392	PA104	IC-POWER AMP
1201-003393	PA102	IC-POWER AMP
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1201-003410	PA101	IC-POWER AMP
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1202-001120	U813	IC-VOLTAGE COMP.
1202-001120	U906	IC-VOLTAGE COMP.
1202-001121	U706	IC-VOLTAGE COMP.
1203-004818	U707	IC-POSI.FIXED REG.
1203-004819	U1003	IC-POSI.FIXED REG.
1203-004819	U1005	IC-POSI.FIXED REG.
1203-004819	U700	IC-POSI.FIXED REG.
1203-005373	U814	IC-VOL. DETECTOR
1203-005485	U806	IC-POSI.FIXED REG.
1203-006860	U1000	IC-DC/DC CONVERTER
1203-006874	U907	IC-MULTI REG.
1203-007135	U200	IC-DC/DC CONVERTER
1203-007142	U905	IC-DC/DC CONVERTER
1203-007196	U705	IC-POSI.FIXED REG.
1203-007214	U800	IC-POWER SUPERVISOR
1203-007225	PM600	IC-POWER SUPERVISOR
1203-007256	U1007	IC-DC/DC CONVERTER
1203-007269	U908	IC-DC/DC CONVERTER
1203-007324	U1004	IC-POSI.FIXED REG.
1203-007324	U1006	IC-POSI.FIXED REG.
1203-007380	U802	IC-BATTERY
1204-003328	U704	IC-AUDIO PROCESSOR
1204-003364	U1002	IC-VIDEO PROCESS
1205-004165	U201	IC-TRANSCIEVER
1205-004233	U910	IC-TRANSMITTER
1205-004444	U701	IC-CODEC
1205-004474	U1009	IC-SWITCH
1205-004474	U808	IC-SWITCH
1205-004510	U303	IC-COMM. CONTROLLER
1205-004525	UCP400	IC-MODEM
1209-002096	U807	IC-SENSOR

1209-002124	U801	IC-SENSOR
1209-002132	U803	IC-SENSOR
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2203-007449	C732	C-CER,CHIP
2203-007449	C735	C-CER,CHIP
2203-007449	C740	C-CER,CHIP
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2203-007449	C748	C-CER,CHIP
2203-007449	C932	C-CER,CHIP
2203-007449	C933	C-CER,CHIP
2203-007449	C934	C-CER,CHIP

2203-007456	C632	C-CER,CHIP
2203-007474	C366	C-CER,CHIP
2203-007474	C919	C-CER,CHIP
2203-007775	C403	C-CER,CHIP
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2203-008243	C749	C-CER,CHIP
2404-001506	TA800	C-TA,CHIP
2404-001516	C819	C-TA,CHIP
2404-001561	TA700	C-TA,CHIP
2409-001238	BAT600	C-EDL
2703-001231	L800	INDUCTOR-SMD
2703-002200	L150	INDUCTOR-SMD
2703-002309	L801	INDUCTOR-SMD

2703-002309	L802	INDUCTOR-SMD
2703-002649	C306	INDUCTOR-SMD
2703-002858	L203	INDUCTOR-SMD
2703-002858	L315	INDUCTOR-SMD
2703-002901	L113	INDUCTOR-SMD
2703-002903	L101	INDUCTOR-SMD
2703-002903	L127	INDUCTOR-SMD
2703-002903	L146	INDUCTOR-SMD
2703-002903	L204	INDUCTOR-SMD
2703-002907	C138	INDUCTOR-SMD
2703-002907	L112	INDUCTOR-SMD
2703-002907	L114	INDUCTOR-SMD
2703-002907	L140	INDUCTOR-SMD
2703-002951	L206	INDUCTOR-SMD
2703-002953	L128	INDUCTOR-SMD
2703-002953	L132	INDUCTOR-SMD
2703-002958	L123	INDUCTOR-SMD
2703-002960	L119	INDUCTOR-SMD
2703-002961	L309	INDUCTOR-SMD
2703-002961	L311	INDUCTOR-SMD
2703-003001	L402	INDUCTOR-SMD
2703-003004	L106	INDUCTOR-SMD
2703-003502	L1000	INDUCTOR-SMD
2703-003545	L310	INDUCTOR-SMD
2703-003685	L902	INDUCTOR-SMD
2703-003897	L905	INDUCTOR-SMD
2703-003897	L906	INDUCTOR-SMD
2703-003904	L120	INDUCTOR-SMD
2703-003908	C114	INDUCTOR-SMD
2703-003908	C115	INDUCTOR-SMD
2703-003908	C161	INDUCTOR-SMD
2703-003908	L144	INDUCTOR-SMD
2703-003914	L115	INDUCTOR-SMD
2703-003915	L121	INDUCTOR-SMD
2703-003915	L126	INDUCTOR-SMD
2703-003915	L137	INDUCTOR-SMD
2703-003915	L143	INDUCTOR-SMD

2703-003915	L148	INDUCTOR-SMD
2703-003916	L139	INDUCTOR-SMD
2703-003917	L100	INDUCTOR-SMD
2703-003917	L103	INDUCTOR-SMD
2703-003917	L108	INDUCTOR-SMD
2703-003917	L145	INDUCTOR-SMD
2703-003920	L116	INDUCTOR-SMD
2703-003920	L117	INDUCTOR-SMD
2703-004011	L201	INDUCTOR-SMD
2703-004011	L602	INDUCTOR-SMD
2703-004012	L138	INDUCTOR-SMD
2703-004012	L151	INDUCTOR-SMD
2703-004012	L152	INDUCTOR-SMD
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2703-004012	L305	INDUCTOR-SMD
2703-004013	C313	INDUCTOR-SMD
2703-004013	L110	INDUCTOR-SMD
2703-004013	L313	INDUCTOR-SMD
2703-004030	L105	INDUCTOR-SMD
2703-004033	L141	INDUCTOR-SMD
2703-004034	L107	INDUCTOR-SMD
2703-004034	L109	INDUCTOR-SMD
2703-004034	L130	INDUCTOR-SMD
2703-004035	L133	INDUCTOR-SMD
2703-004036	L147	INDUCTOR-SMD
2703-004037	L122	INDUCTOR-SMD
2703-004037	L125	INDUCTOR-SMD
2703-004038	L312	INDUCTOR-SMD
2703-004231	L601	INDUCTOR-SMD
2703-004231	L603	INDUCTOR-SMD
2703-004231	L607	INDUCTOR-SMD
2703-004297	L1001	INDUCTOR-SMD
2703-004297	L600	INDUCTOR-SMD
2703-004297	L604	INDUCTOR-SMD
2703-004297	L605	INDUCTOR-SMD
2703-004297	L606	INDUCTOR-SMD
2703-004297	L803	INDUCTOR-SMD

2703-004301	C162	INDUCTOR-SMD
2703-004344	L306	INDUCTOR-SMD
2703-004344	L307	INDUCTOR-SMD
2801-004551	OSC601	CRYSTAL-SMD
2801-005107	OSC300	CRYSTAL-SMD
2801-005149	OSC400	CRYSTAL-SMD
2801-005165	OSC600	CRYSTAL-SMD
2802-001287	OSC301	RESONATOR-CERAMIC
2901-001634	F900	FILTER-EMI/ESD
2904-001652	F101	FILTER-SAW
2904-001770	F103	FILTER-SAW
2904-001778	F107	FILTER-SAW
2904-001847	F100	FILTER-SAW
2904-001976	F108	FILTER-SAW
2904-001988	F301	FILTER-GPS SAW
2904-001990	F300	FILTER-GPS SAW
2904-002026	F106	FILTER-SAW
2904-002027	F104	FILTER-SAW
2911-000202	F102	DUPLEXER-ASM
3003-001136	MIC700	MIC MEMS
3003-001136	MIC702	MIC MEMS
3301-001659	L303	BEAD-SMD
3301-001729	L1002	BEAD-SMD
3301-001729	L1003	BEAD-SMD
3301-001729	L903	BEAD-SMD
3301-001729	L904	BEAD-SMD
3301-001756	L700	BEAD-SMD
3301-001756	L701	BEAD-SMD
3301-001756	L705	BEAD-SMD
3301-001756	L706	BEAD-SMD
3301-001789	L907	BEAD-SMD
3301-001789	L908	BEAD-SMD
3301-001812	L707	BEAD-SMD
3301-001812	L708	BEAD-SMD
3301-001851	L608	BEAD-SMD
3301-001956	L304	BEAD-SMD
3301-001970	L205	BEAD-SMD

3301-001986	L202	BEAD-SMD
3301-001986	L207	BEAD-SMD
3301-002037	L804	BEAD-SMD
3301-002065	L702	BEAD-SMD
3301-002066	L1004	BEAD-SMD
3404-001303	TAC700	SWITCH-TACT
3705-001448	RFS101	CONNECTOR-COAXIAL
3705-001731	RFS100	CONNECTOR-COAXIAL
3705-001731	RFS102	CONNECTOR-COAXIAL
3711-006843	HDC900	HEADER-BOARD TO BOARD
3711-006923	HDC400	HEADER-BOARD TO BOARD
3711-007071	HDC1002	HEADER-BOARD TO BOARD
3711-007295	HDC1001	HEADER-BOARD TO BOARD
3711-007841	BTC800	HEADER-BATTERY
3711-008151	HDC700	HEADER-BOARD TO BOARD
3711-008157	HDC701	HEADER-BOARD TO BOARD
3712-001373	ANT800	CONNECTOR-TERMINAL
3712-001373	ANT801	CONNECTOR-TERMINAL
3712-001373	ANT802	CONNECTOR-TERMINAL
3712-001375	ANT100	CONNECTOR-TERMINAL
3712-001375	ANT101	CONNECTOR-TERMINAL
3712-001375	ANT102	CONNECTOR-TERMINAL
3712-001375	ANT300	CONNECTOR-TERMINAL
3712-001375	ANT301	CONNECTOR-TERMINAL
3712-001375	CLP700	CONNECTOR-TERMINAL
3712-001375	CLP701	CONNECTOR-TERMINAL
3712-001378	ANT803	CONNECTOR-TERMINAL
3712-001378	U1013	CONNECTOR-TERMINAL
3722-003512	IFC800	JACK-MINI USB
4709-002109	U304	W-LAN MODULE
GH61-01117A	SUS701	CLIP-SUS_TOP
GH61-01118A	SUS700	CLIP-SUS_BOT
GH63-00900A	SC901	SHIELD-FRAME SMD
GH70-07467A	SC400	ICT SHIELD-CAN CLIP
GH70-07467A	SC401	ICT SHIELD-CAN CLIP
GH70-07467A	SC402	ICT SHIELD-CAN CLIP
GH70-07467A	SC403	ICT SHIELD-CAN CLIP

GH70-07467A	SC404	ICT SHIELD-CAN CLIP
GH70-07467A	SC405	ICT SHIELD-CAN CLIP
GH70-07467A	SC406	ICT SHIELD-CAN CLIP
GH70-07467A	SC407	ICT SHIELD-CAN CLIP
GH70-07467A	SC408	ICT SHIELD-CAN CLIP
GH70-07467A	SC409	ICT SHIELD-CAN CLIP
GH70-07467A	SC410	ICT SHIELD-CAN CLIP
GH70-07467A	SC411	ICT SHIELD-CAN CLIP
GH70-07467A	SC413	ICT SHIELD-CAN CLIP
GH70-07467A	SC415	ICT SHIELD-CAN CLIP

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

7. Level 2 Repair

7-1. Disassembly

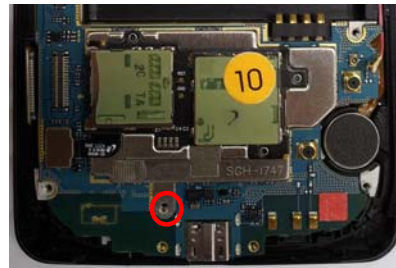
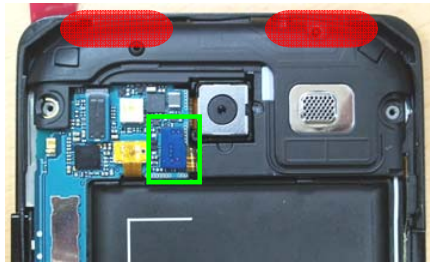
1

1. Unscrew the screw in Rear(10 points)
- SEC : 6001-002083 , 1.4X3.5
2. Disassemble rear



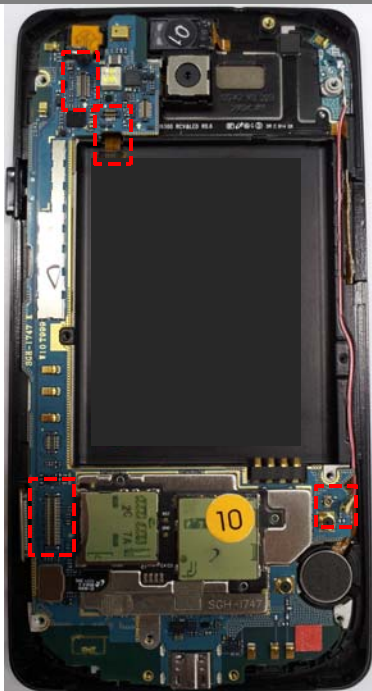
2

1. Separate the connector
2. Disassemble SPK assy
3. Unscrew the screw (1 point)
- SEC : 6001-001530 , 1.4X2.5



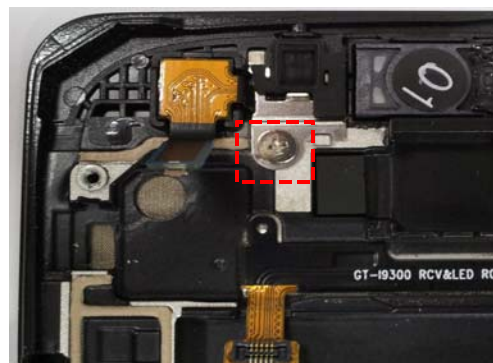
3

1. Separate the connector(3 point)
2. Disassemble Coaxial Cable connector(1 point)



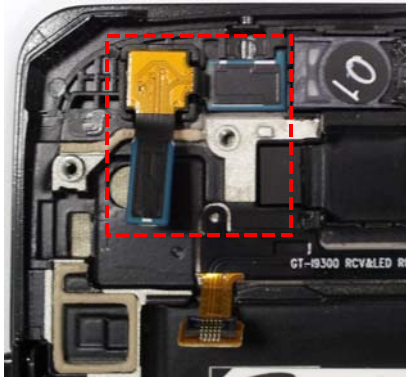
4

1. Unscrew the screw (1 point)
- SEC : 6001-002262 , 1.4X1.5
2. Disassemble sus .



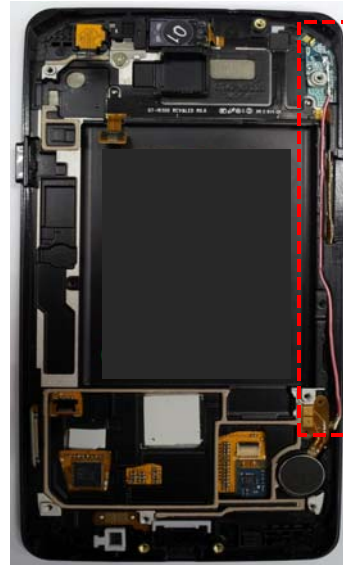
5

1.Disassemble Front-cam Assy.



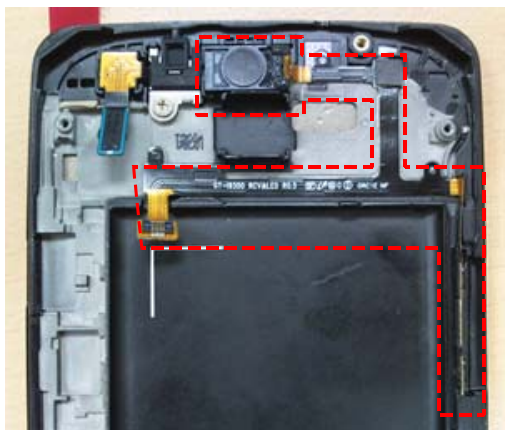
6

1.Disassemble Coaxial cable Assy.



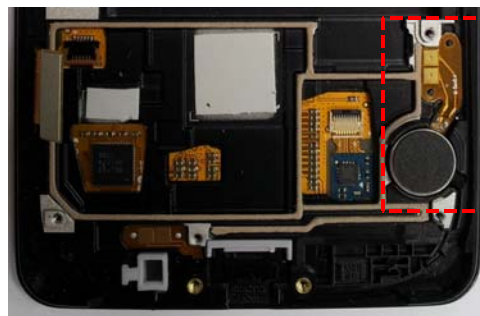
7

1.Disassemble Receiver Assy.



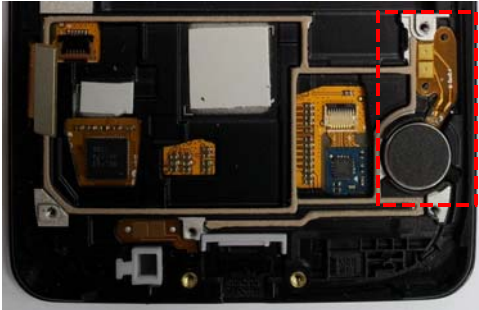
8

1.Disassemble Motor Assy.

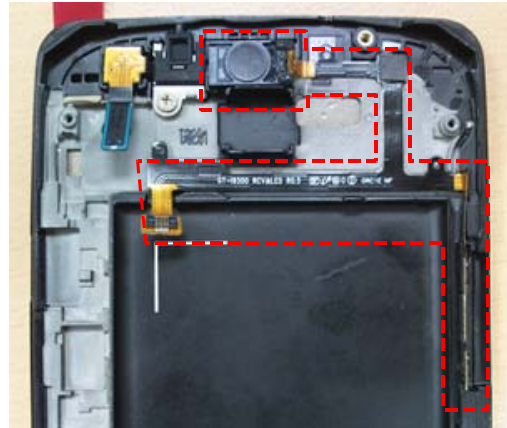


7-2. Assembly

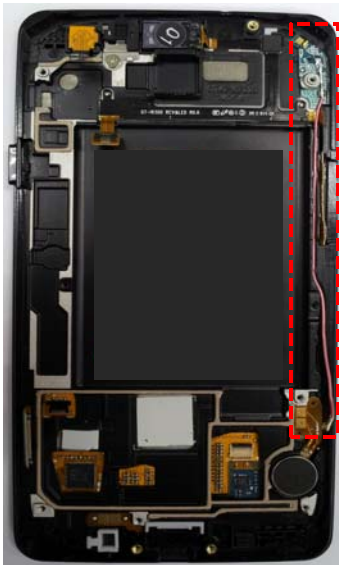
1

1. Assemble Motor Assy.

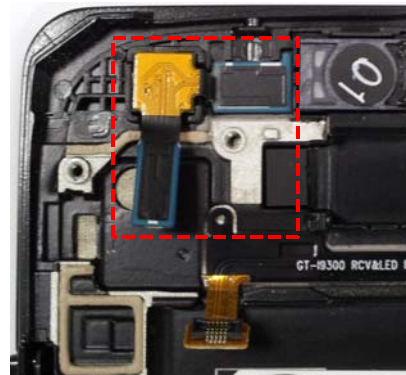
2

1. Assemble Receiver Assy.

3

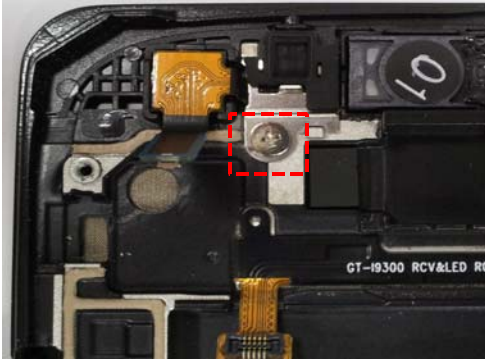
1. Assemble Coaxial cable Assy

4

1. Assemble Front-cam assy.

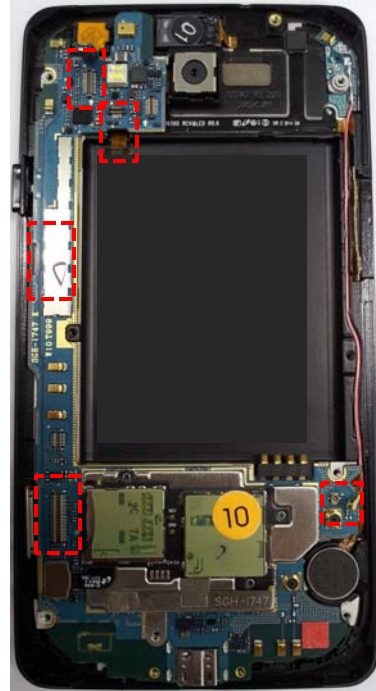
5

1. Assemble sus .
2. screw the screw (1 point)
- SEC : 6001-002262 , 1.4X1.5



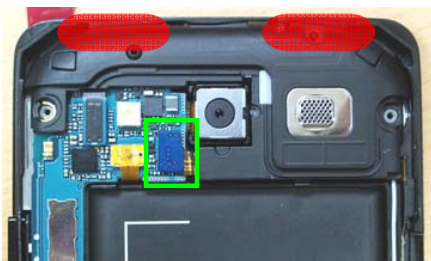
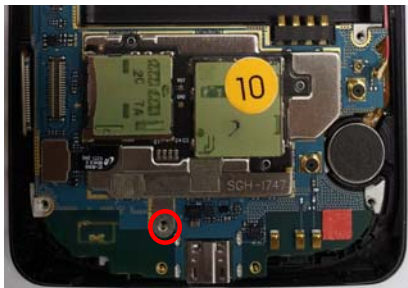
6

1. Assemble Coaxial Cable connector
2. Assemble the connectors



7

1. Screw the screw (1 point)
- SEC : 6001-001530 , 1.4X2.5
2. Assemble SPK assy
3. Assemble connector



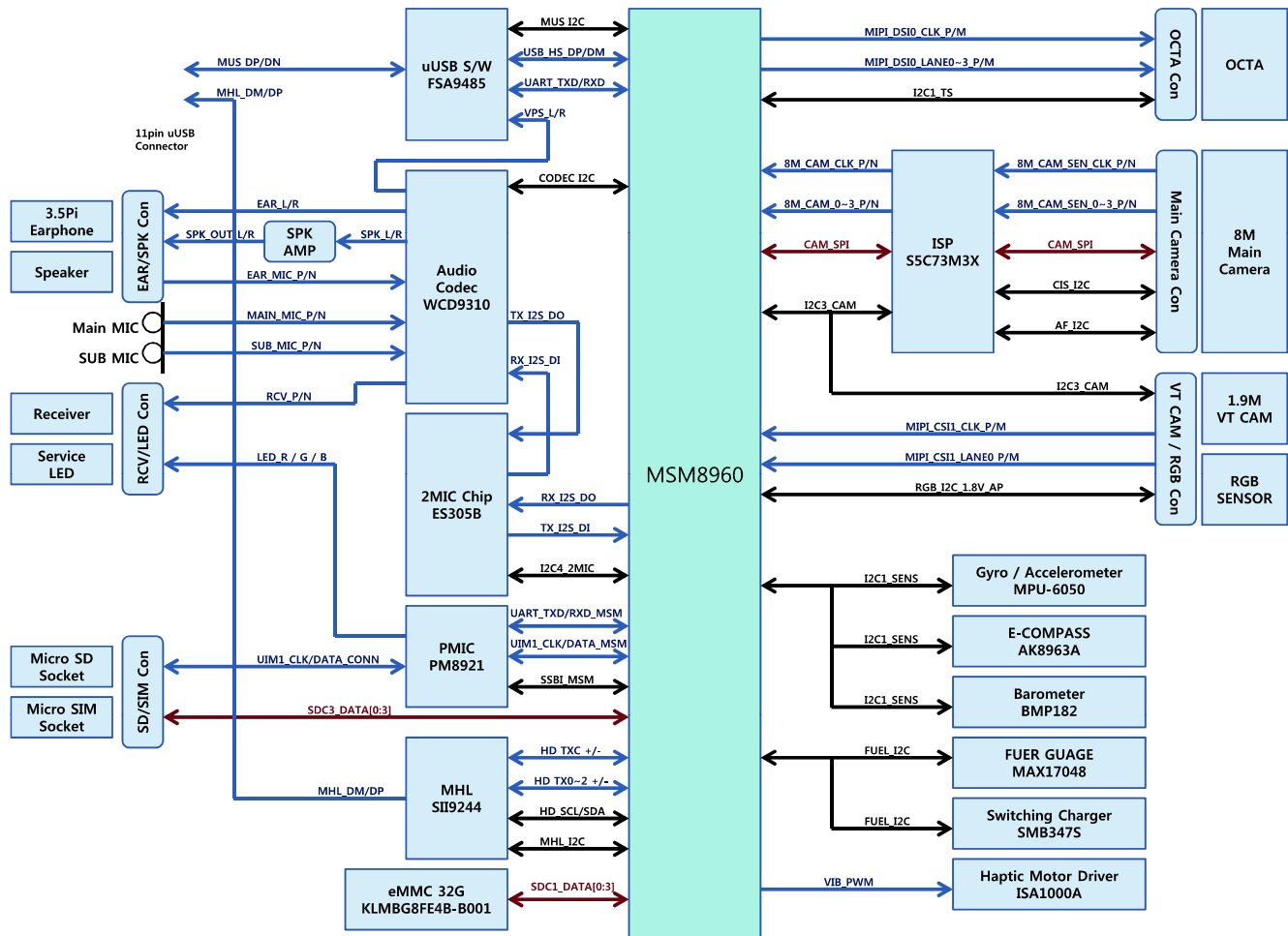
8

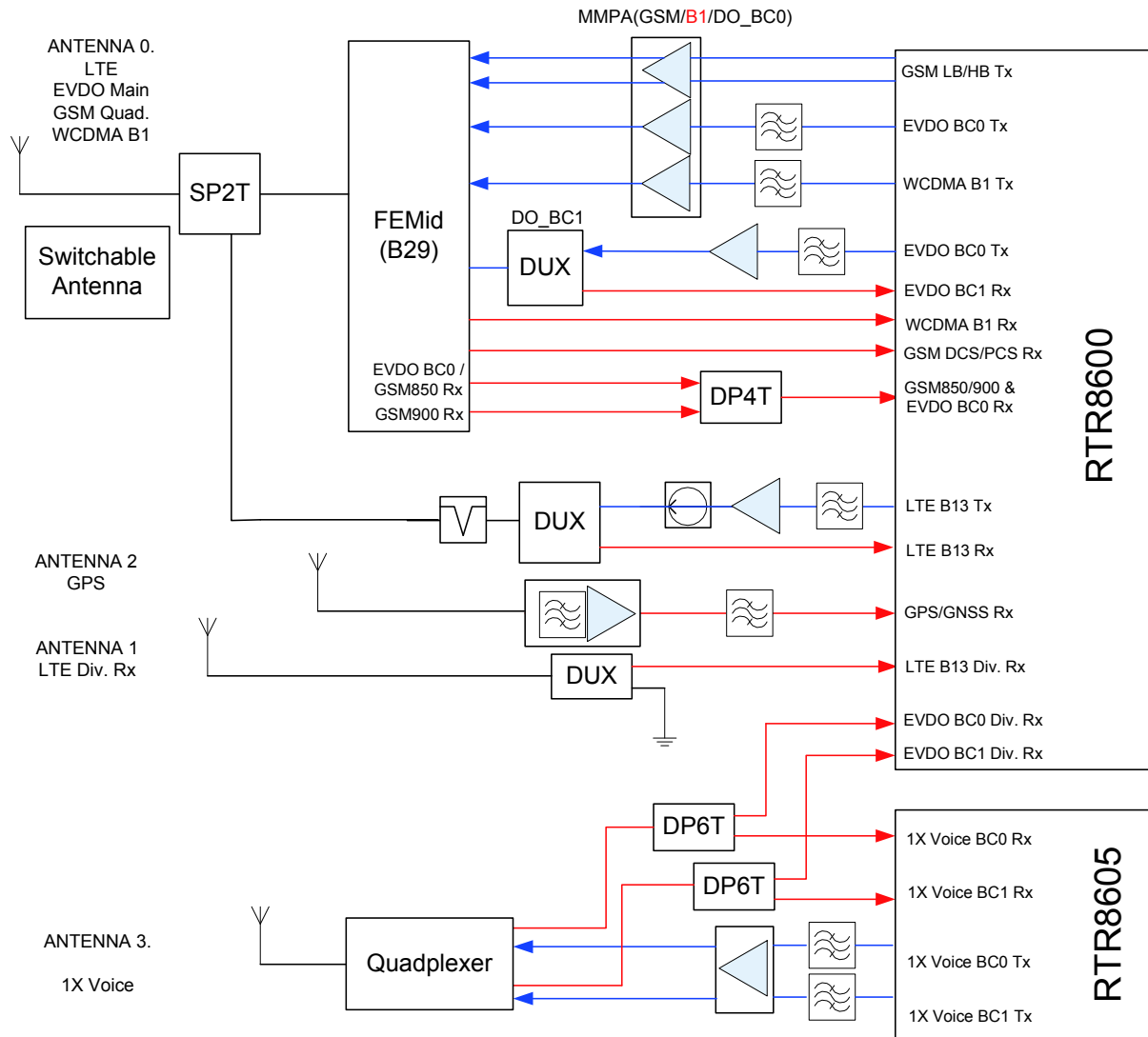
1. Assemble rear
2. Screw the screw in Rear (10 points)
- SEC : 6001-002083 , 1.4X3.5

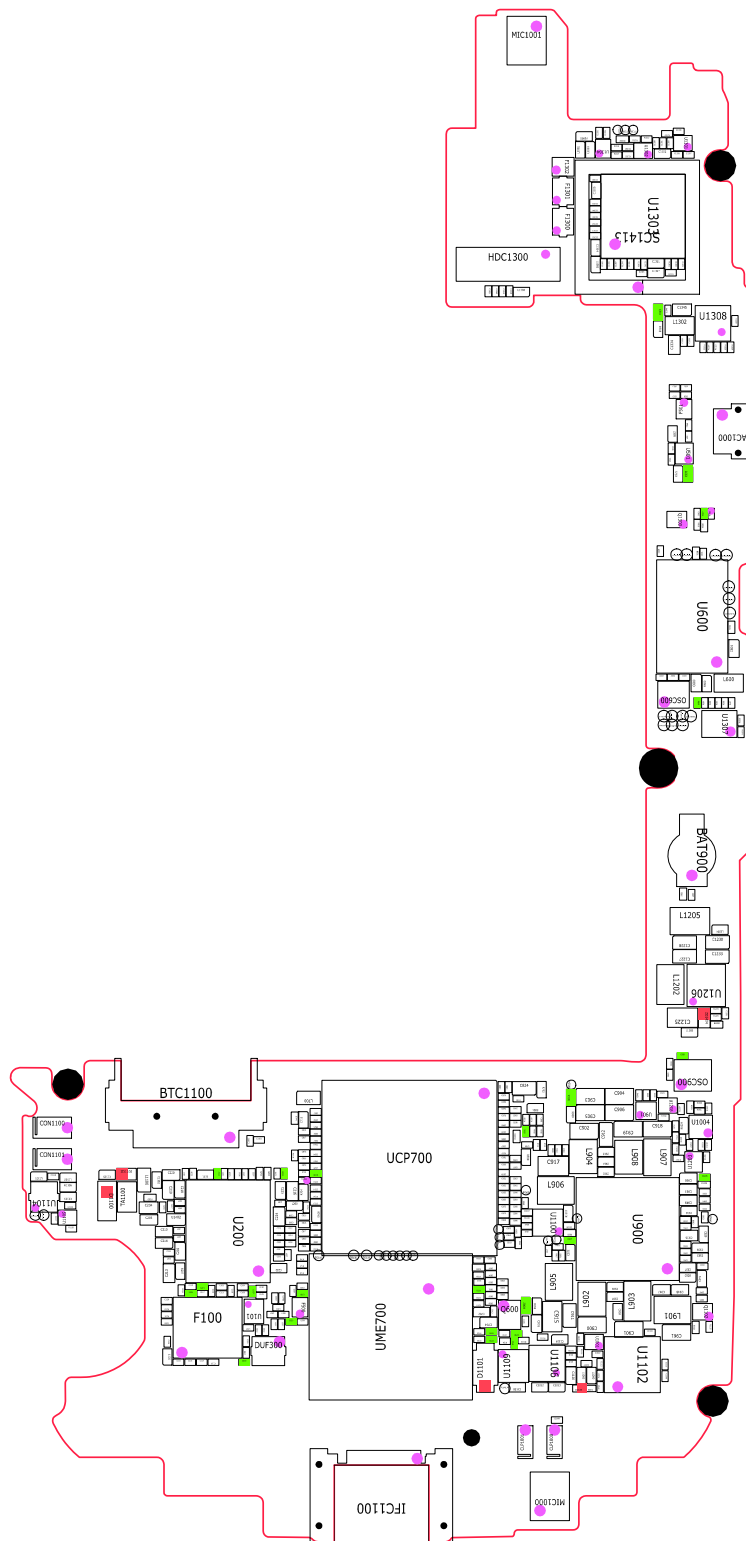


8. Level 3 Repair

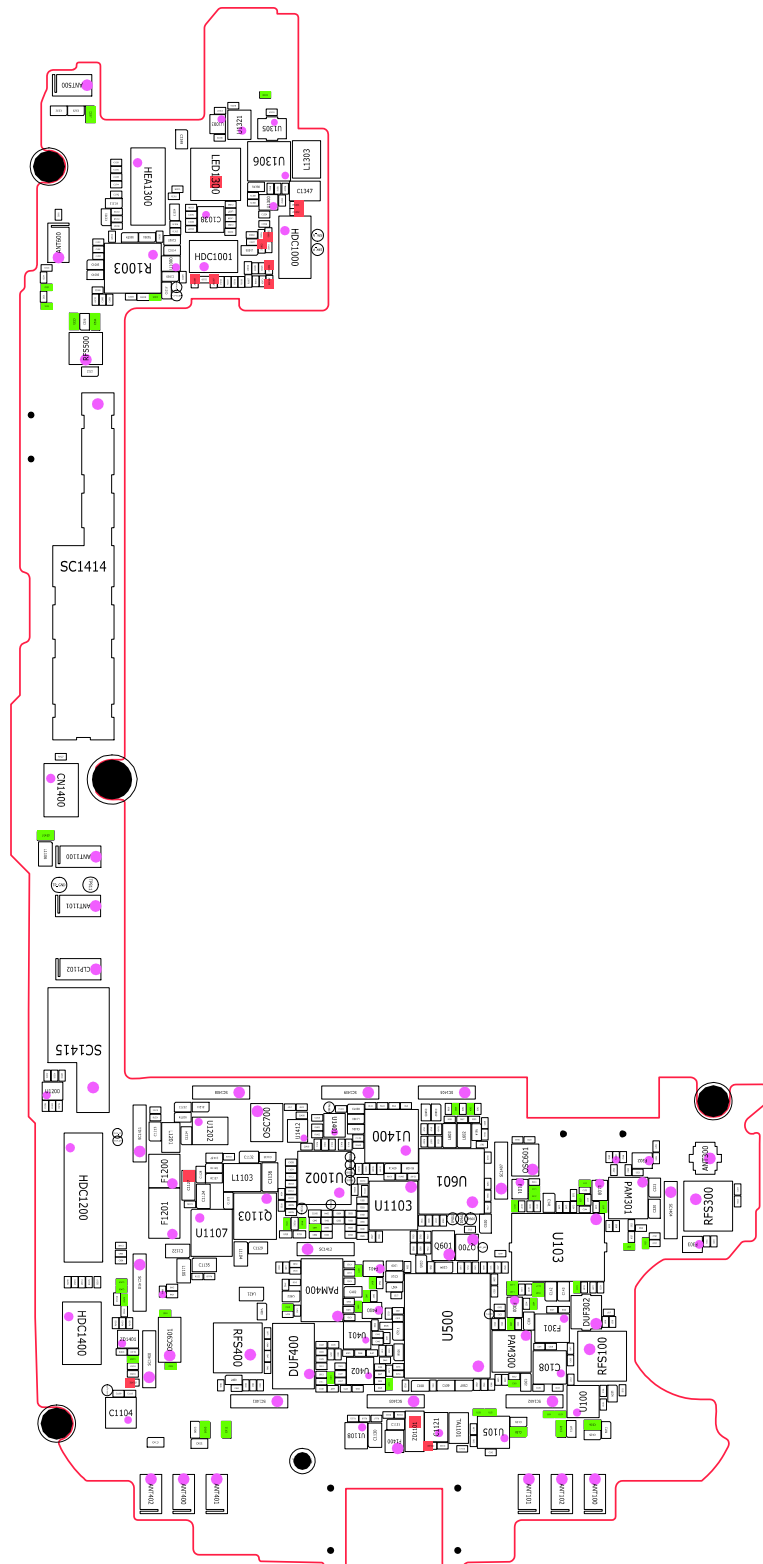
8-1. Block Diagram



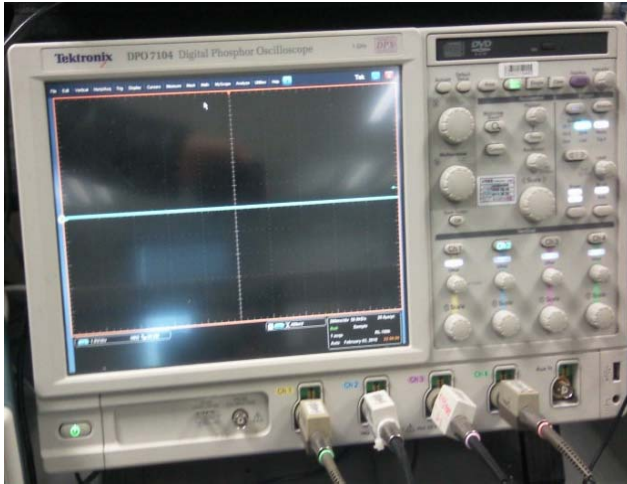




8-2-1. Bottom



8-3. Flow Chart of Troubleshooting Equipments



↑ Oscilloscope



↑ Digital Multimeter

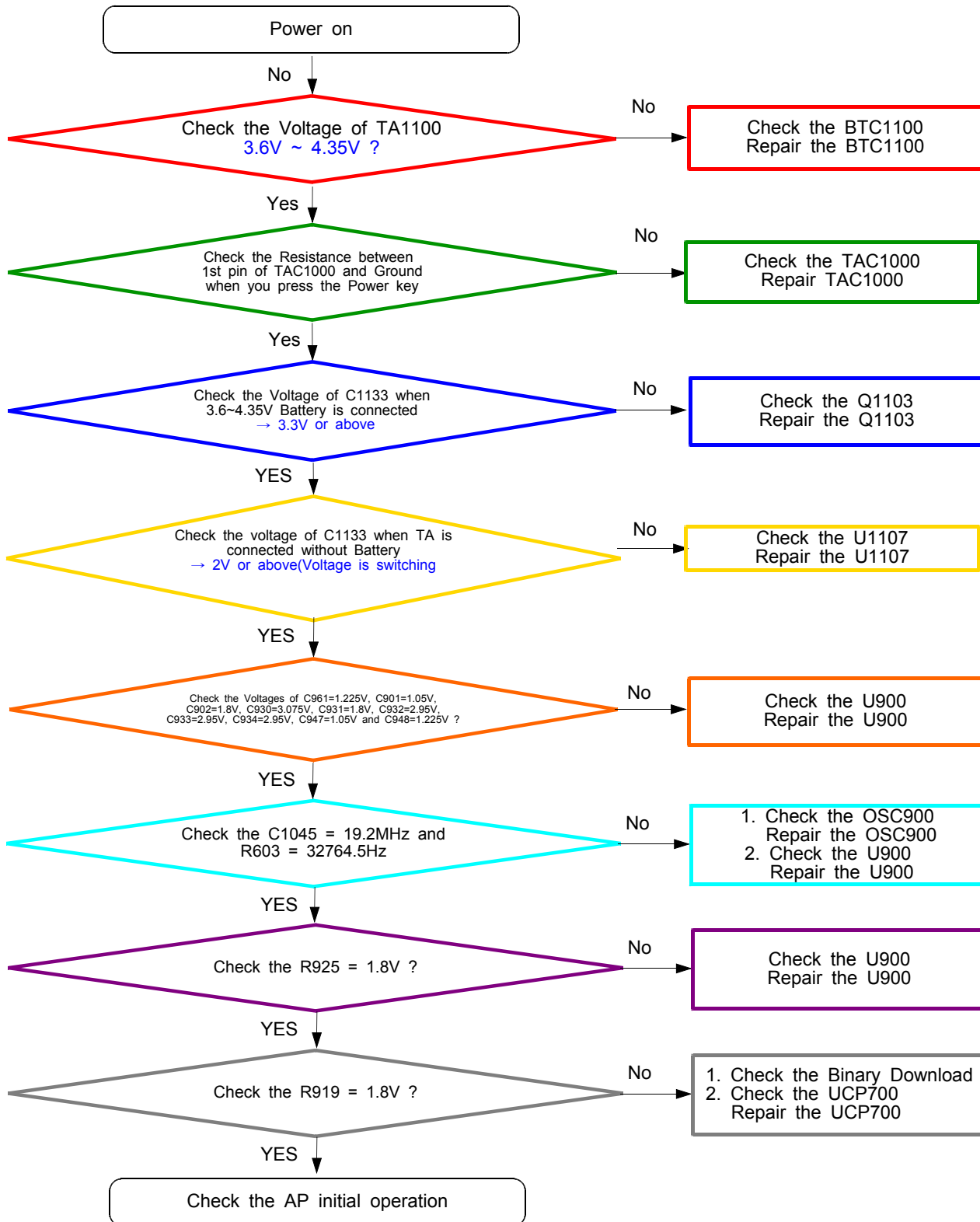


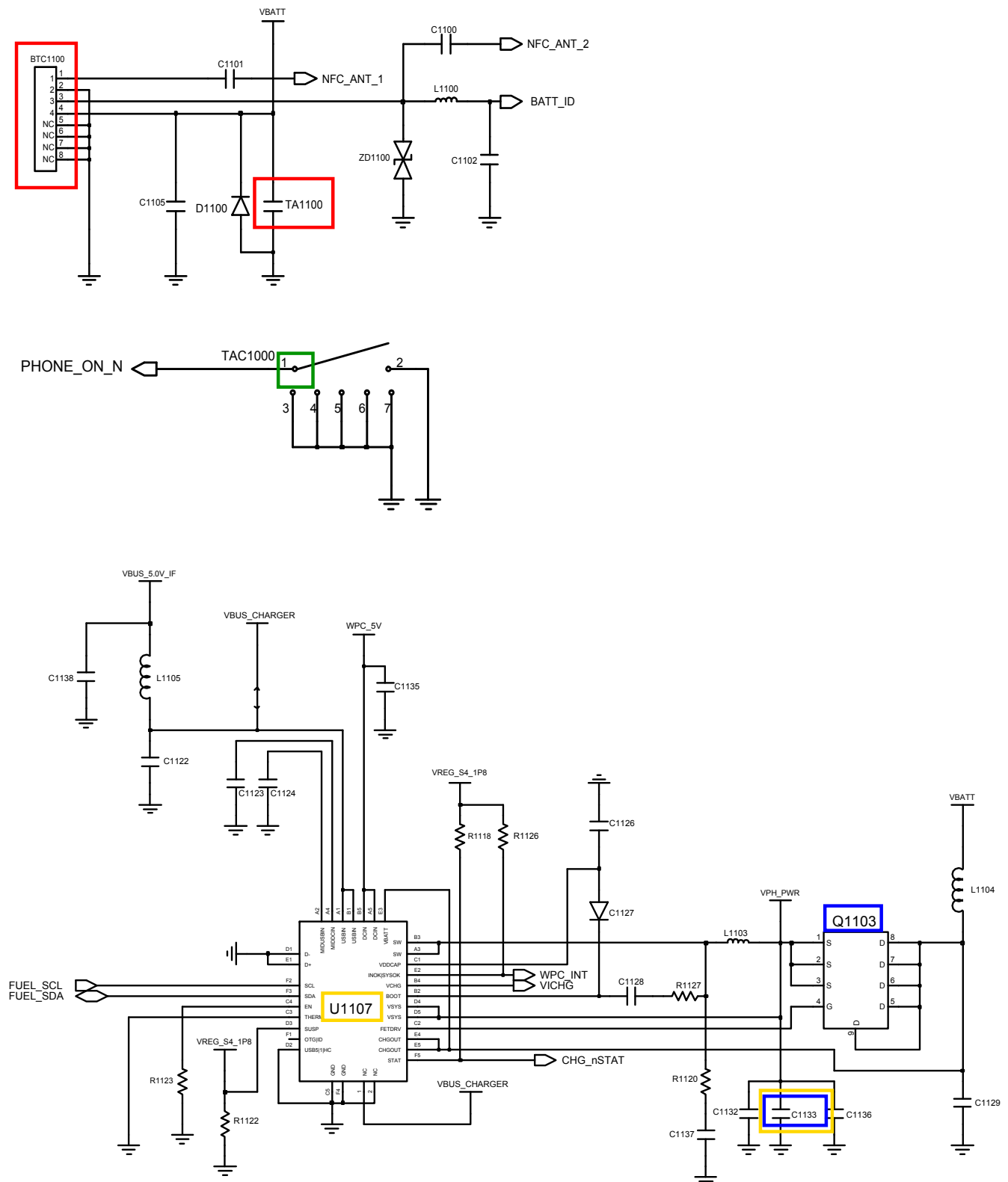
↑ Power Supply

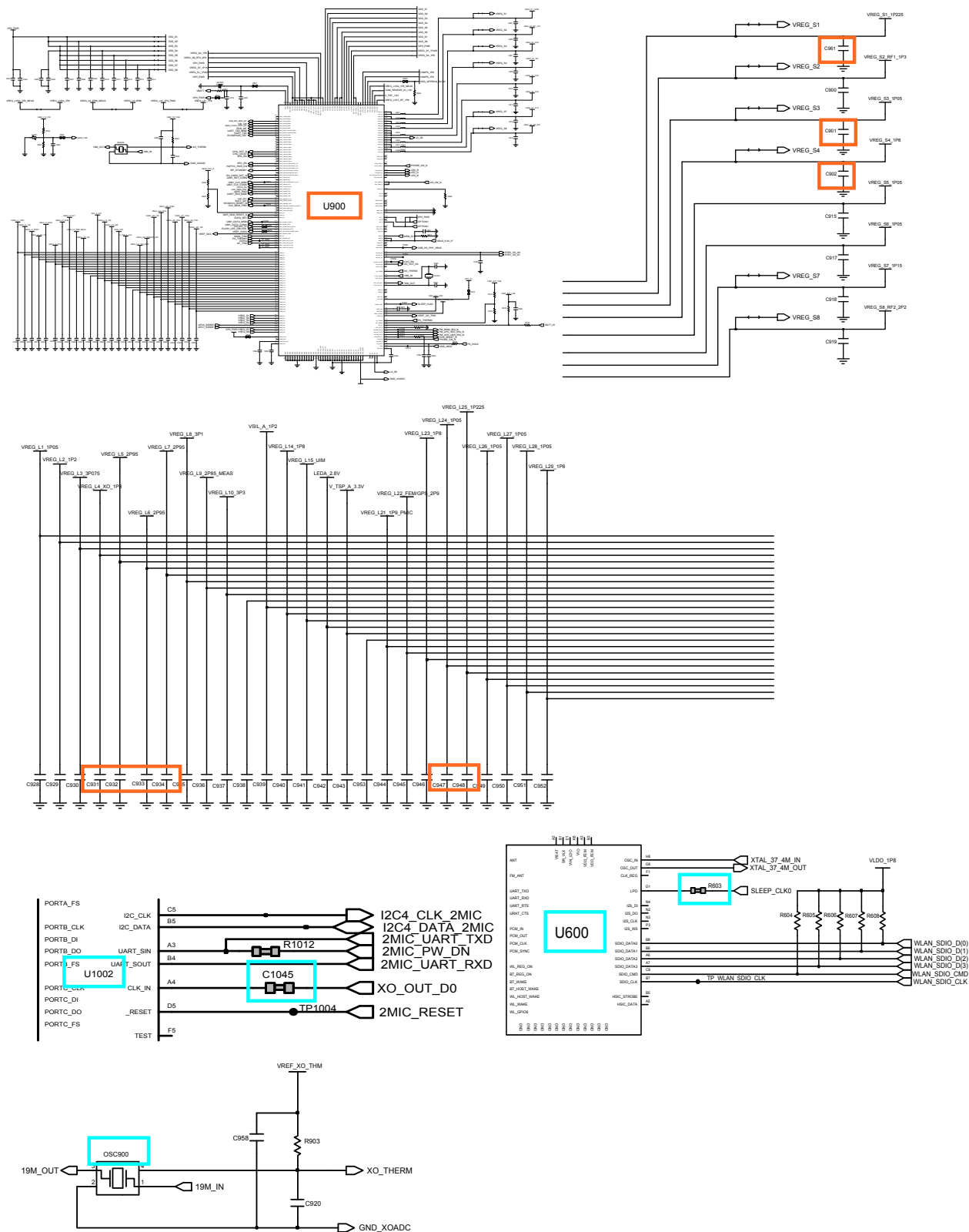


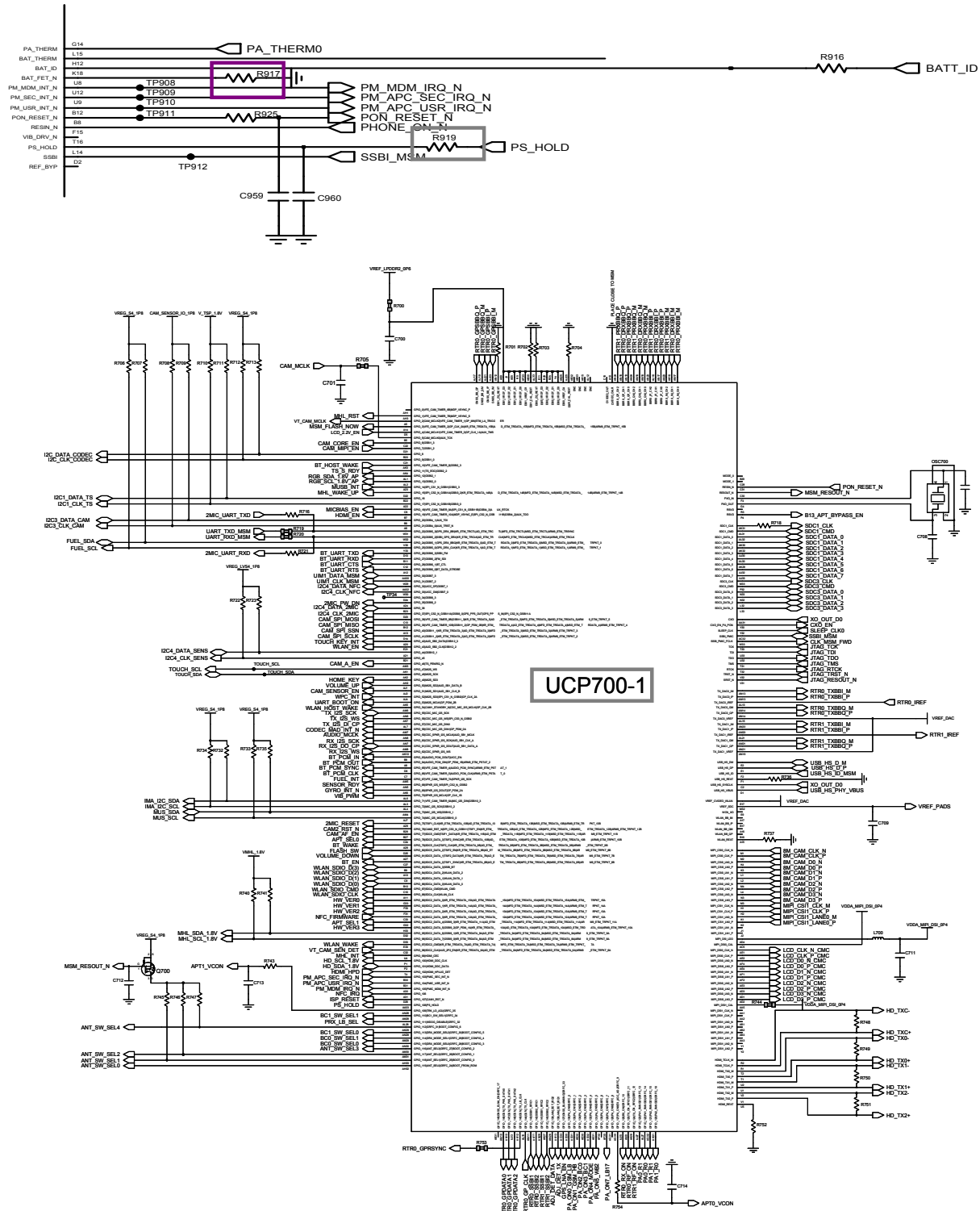
↑ + driver, Tweezer

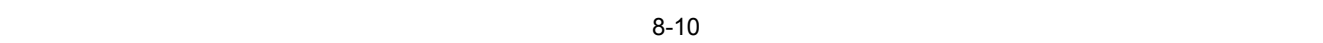
8-3-1. AP Power On

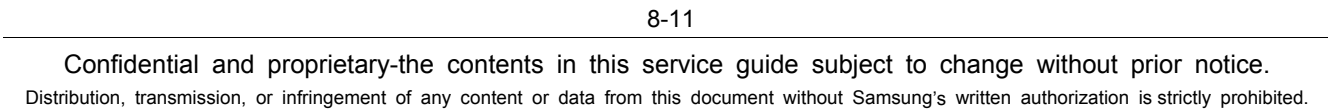




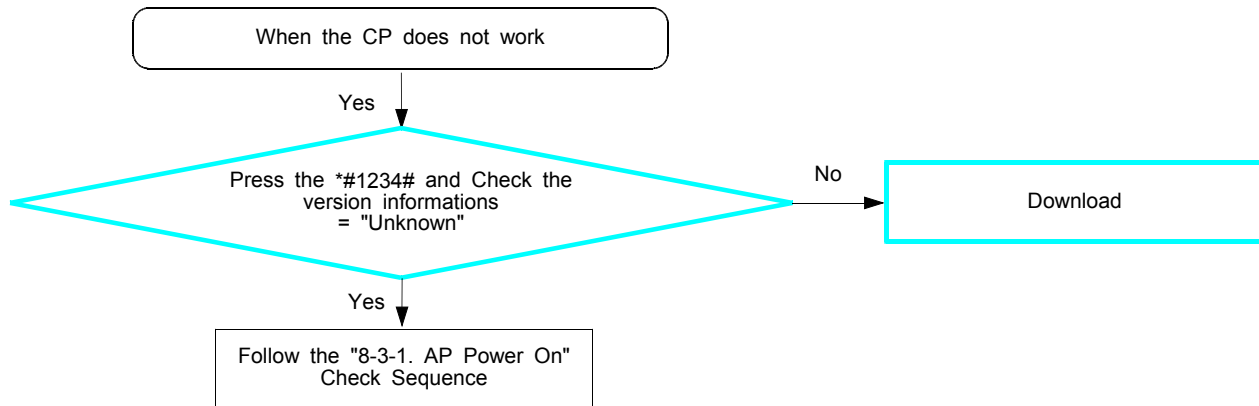




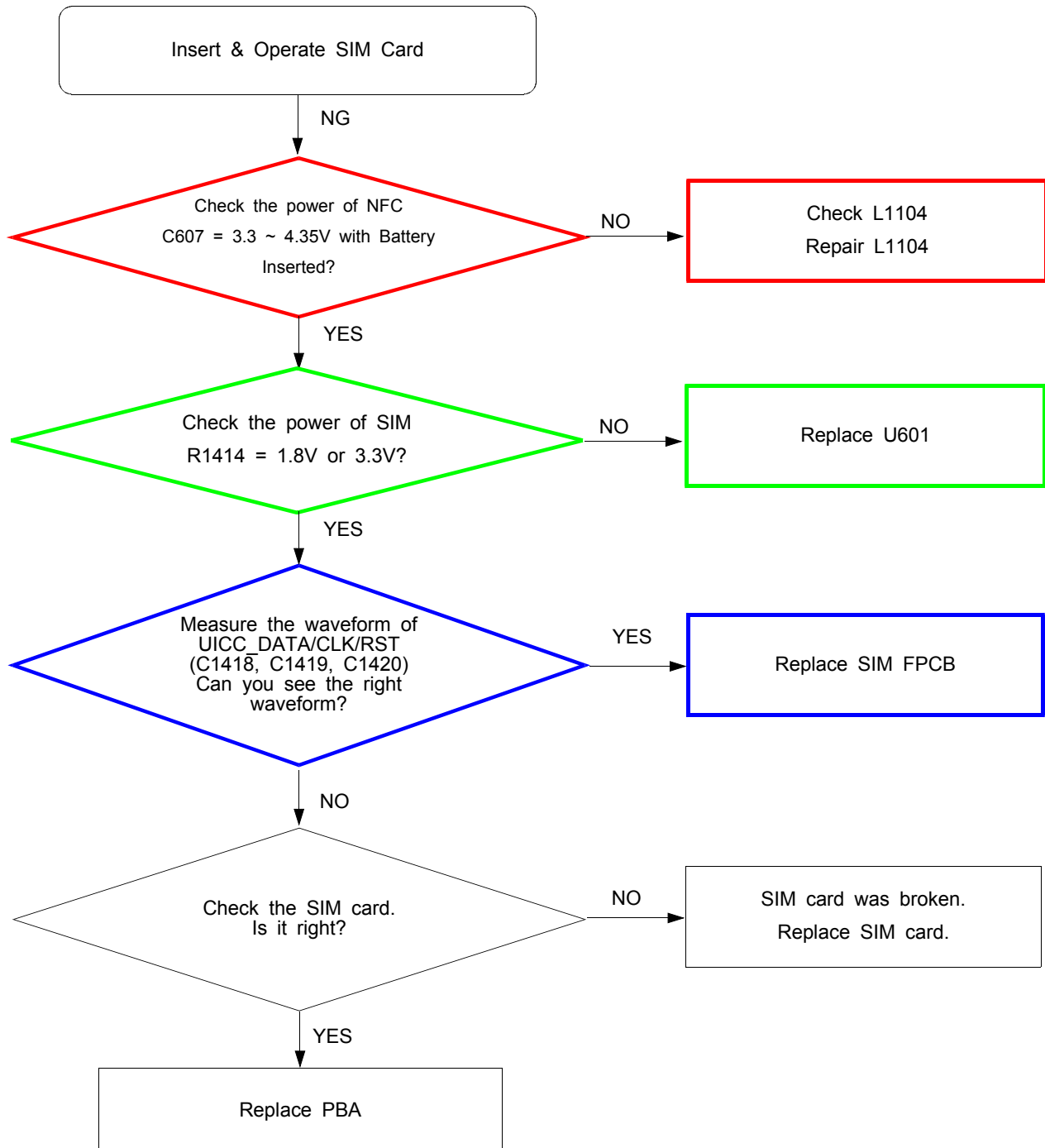


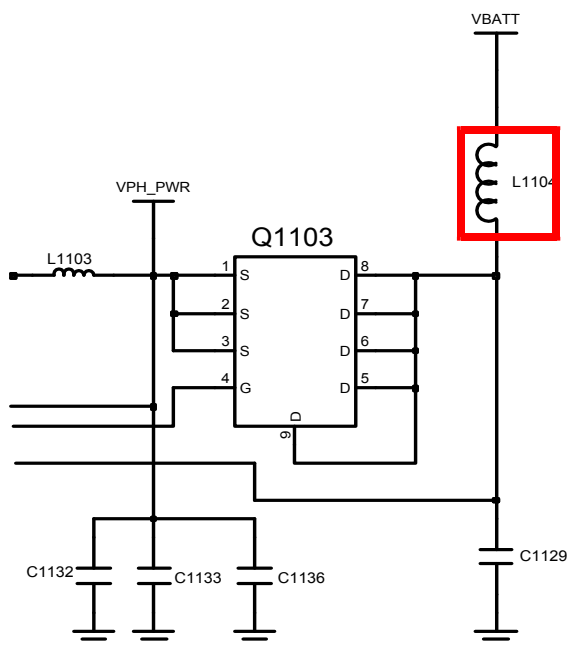
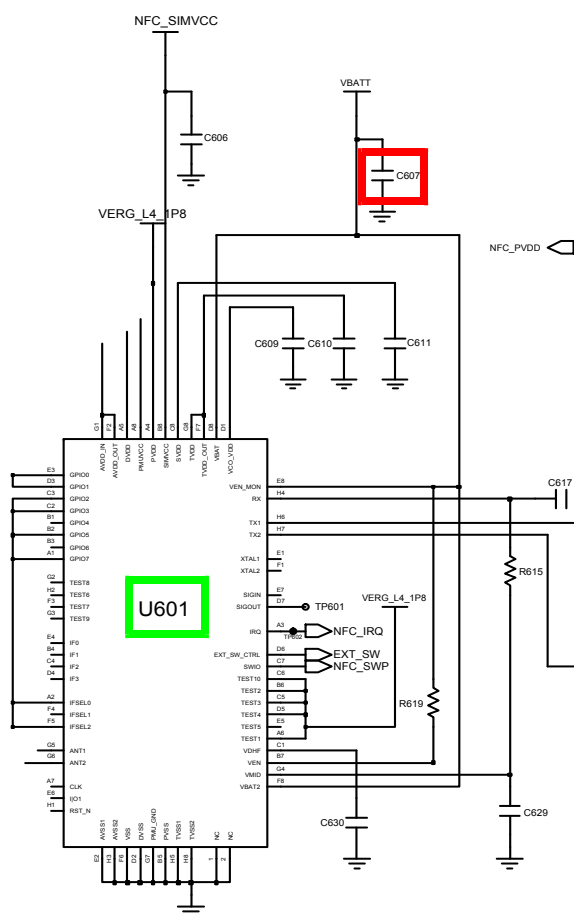
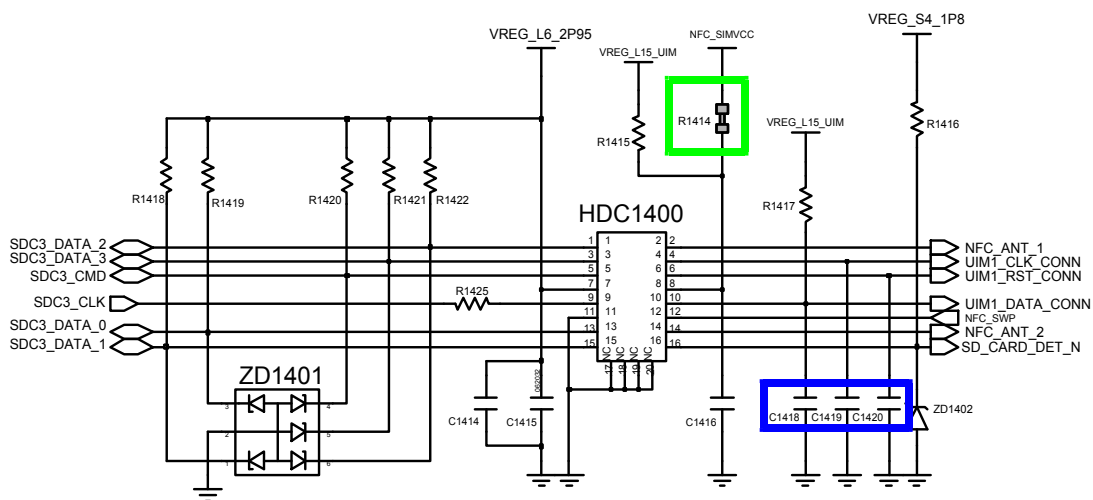


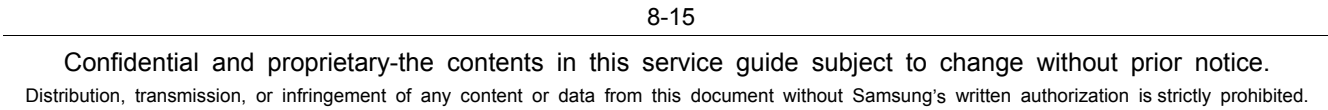
8-3-2. CP Power On



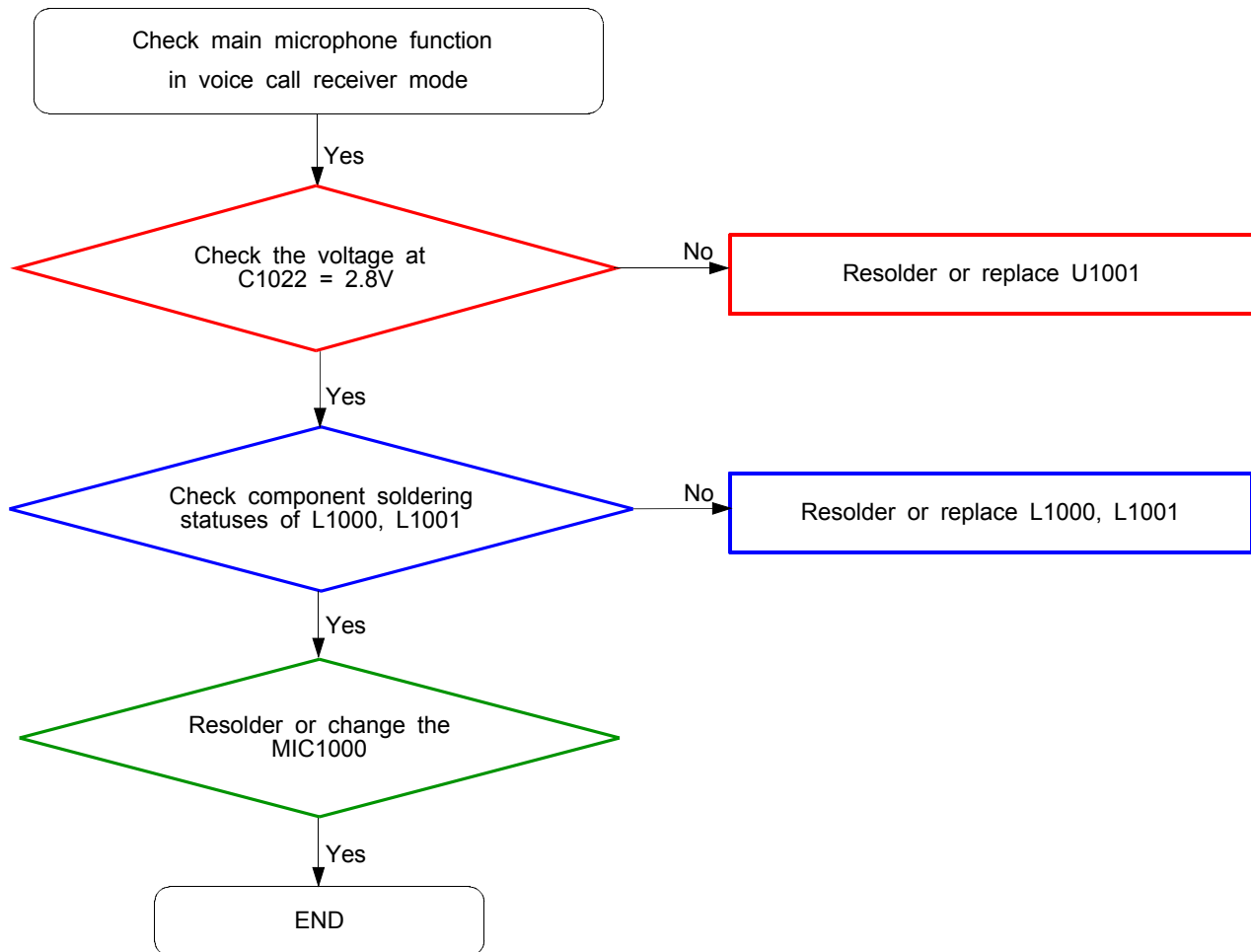
8-3-3.USIM Part

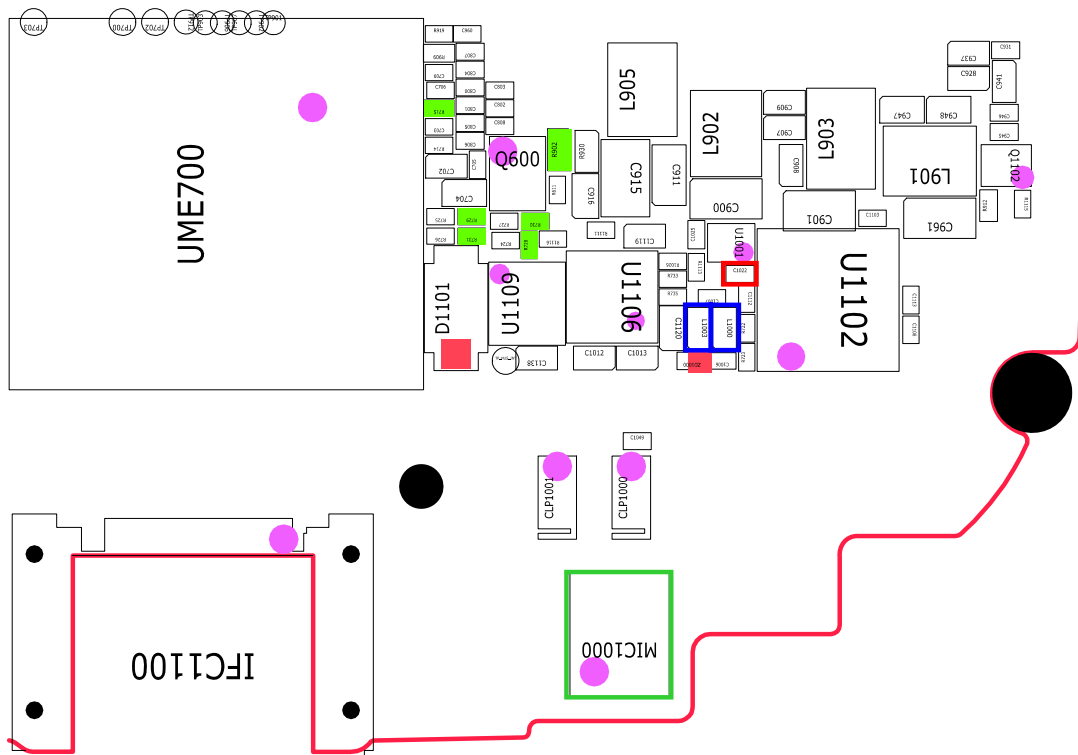
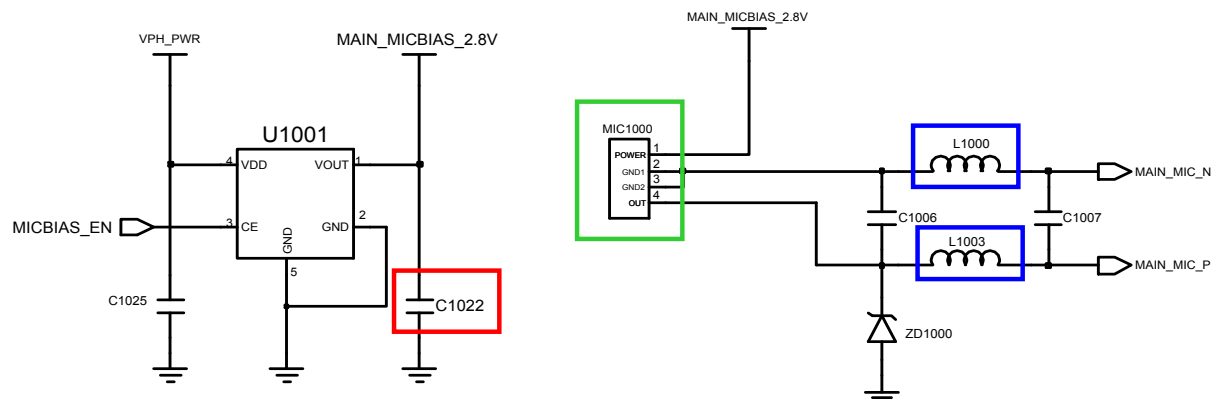




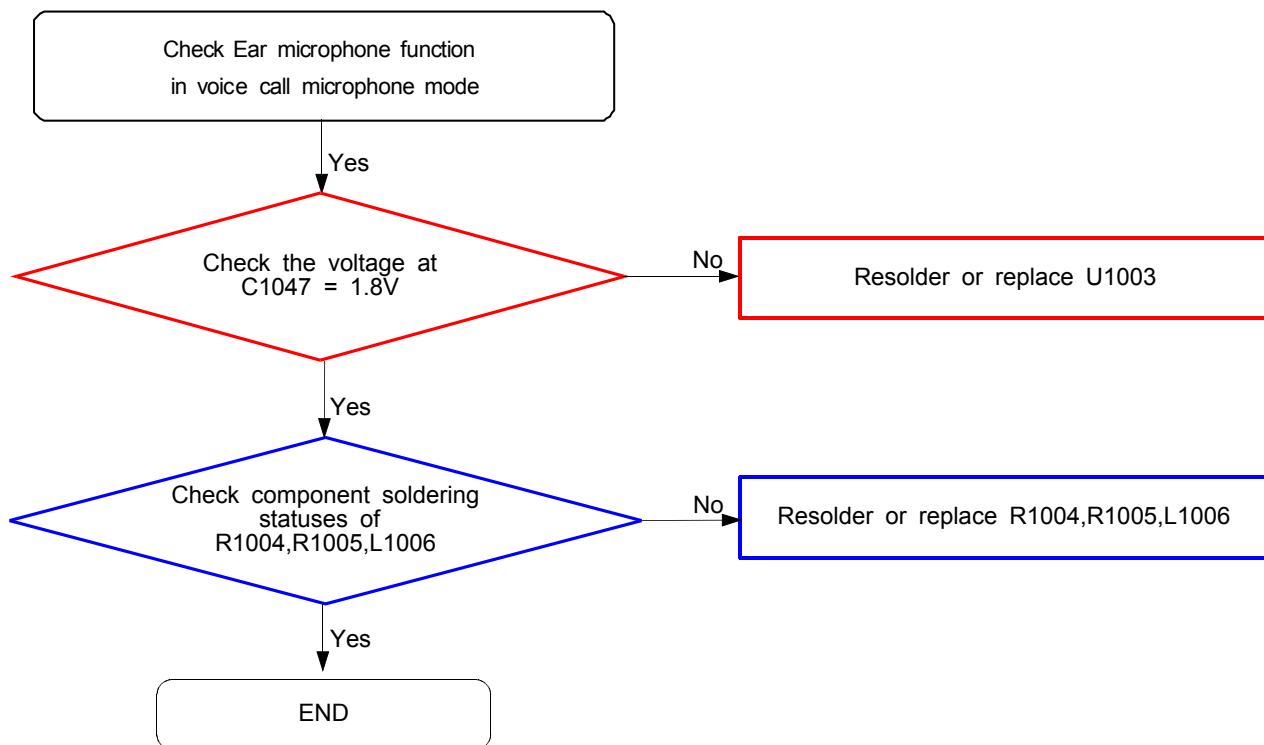


8-3-4. Microphone Part - MAIN MIC

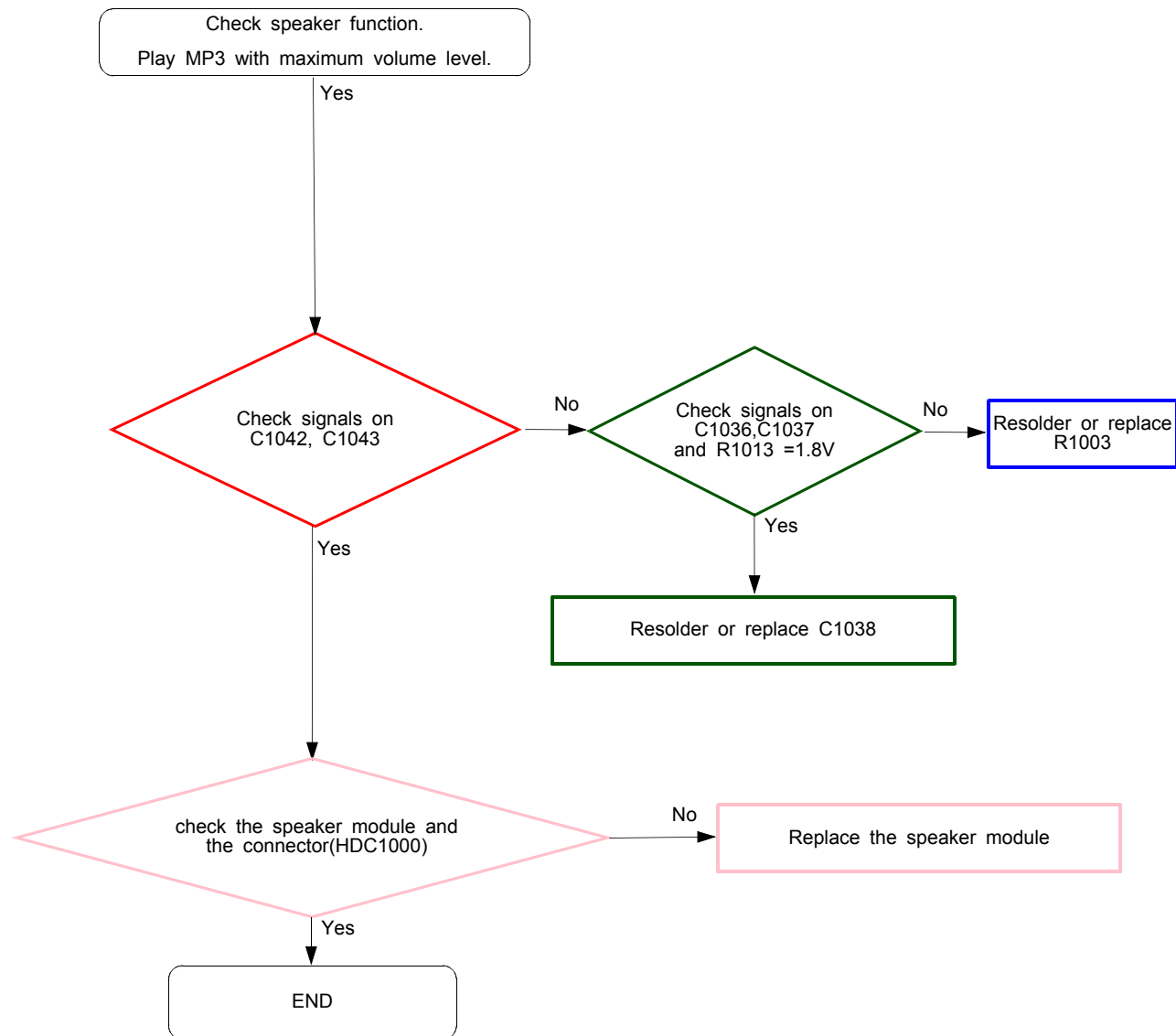




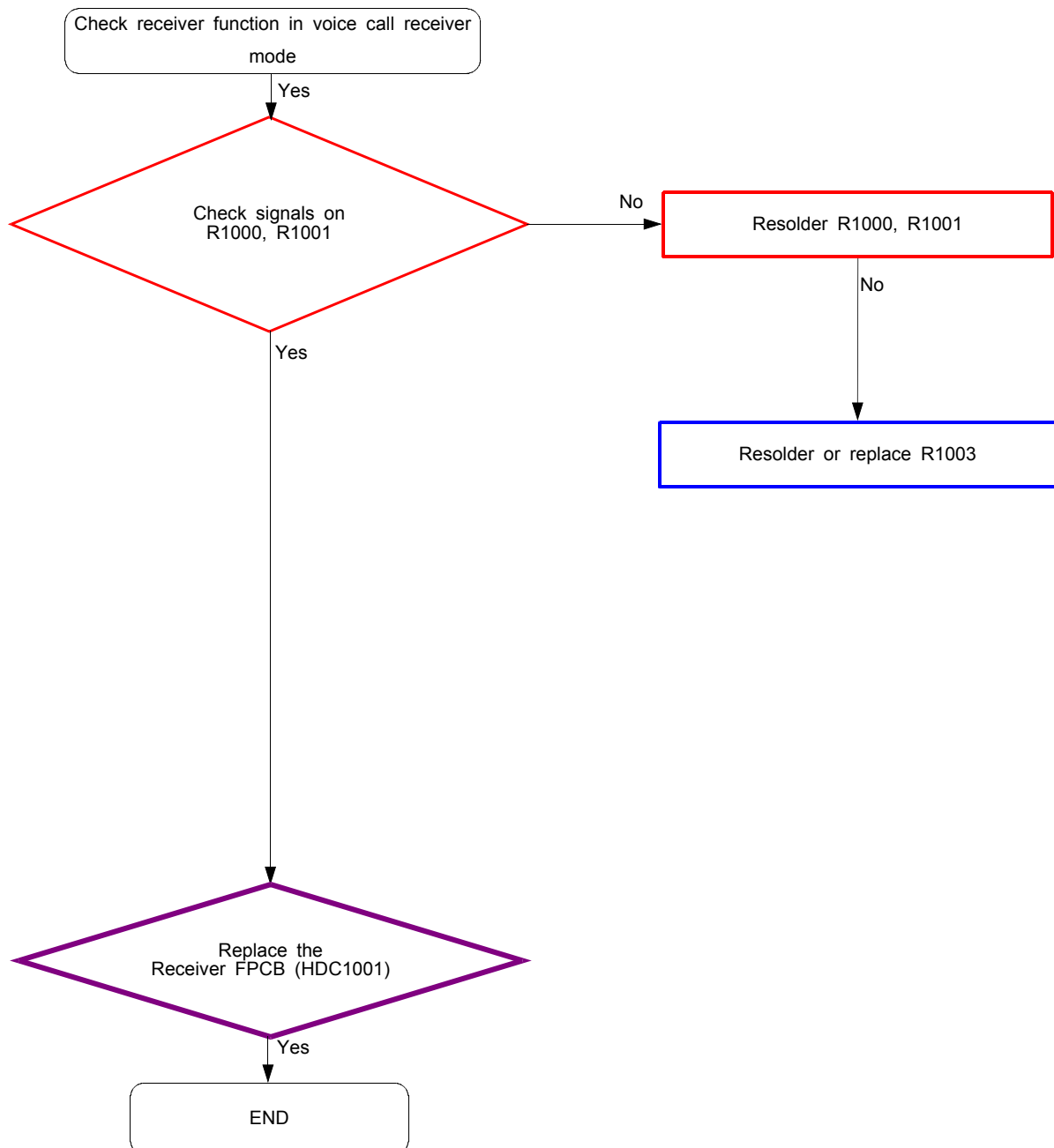
8-3-5. Microphone Part - Earphone MIC



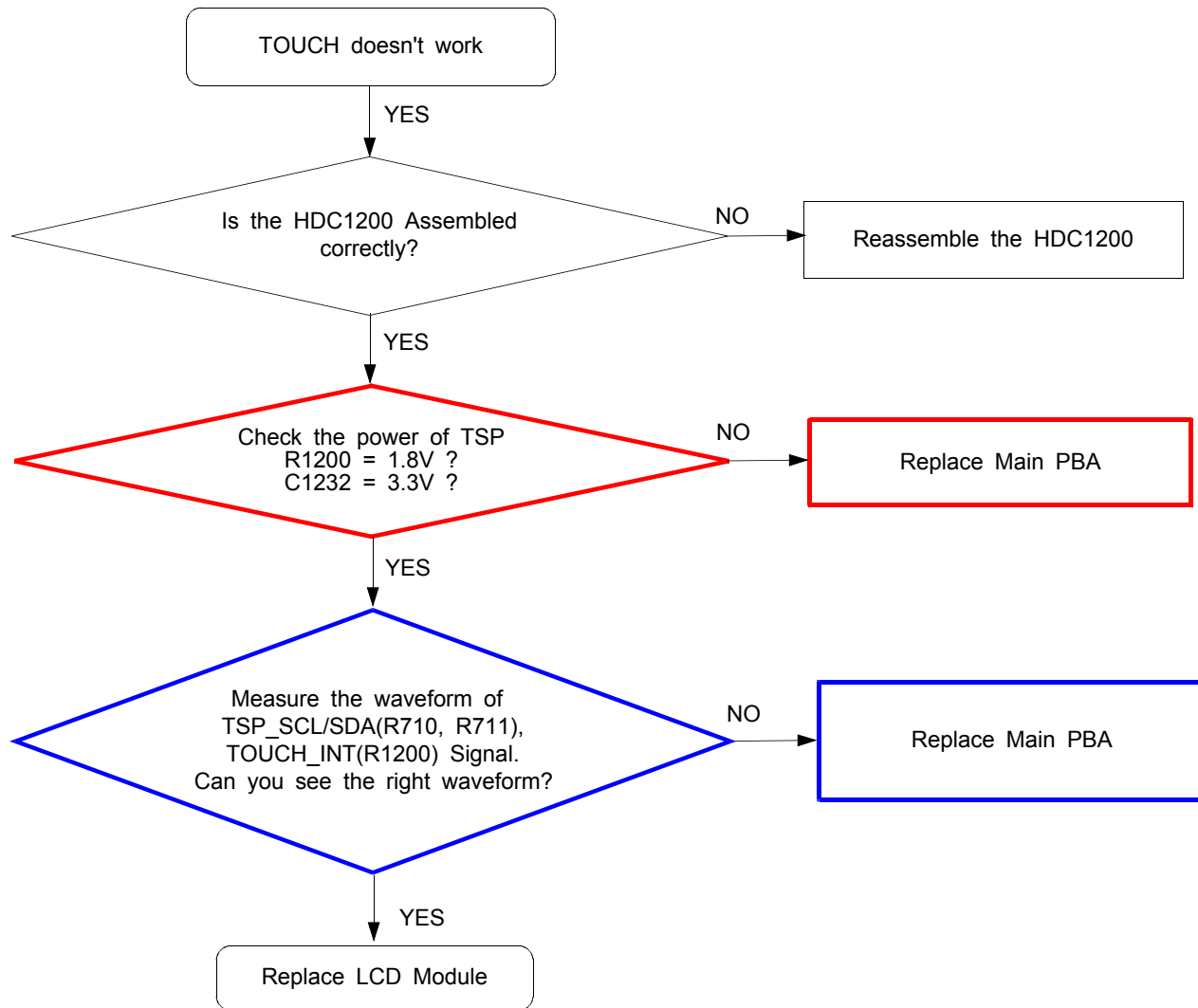
8-3-6.SPEAKER

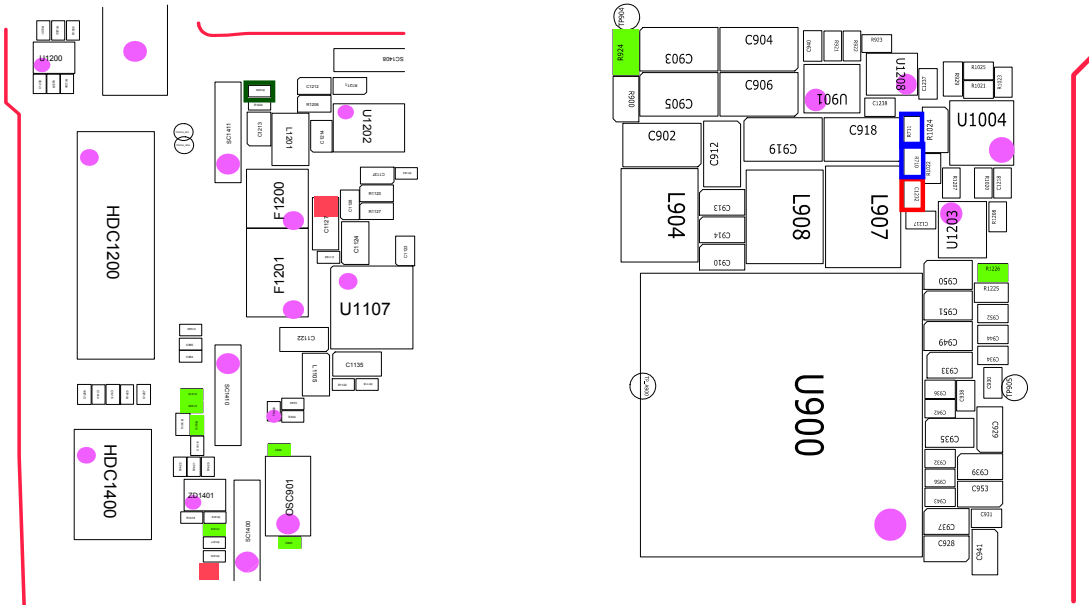


8-3-7.RECEIVER

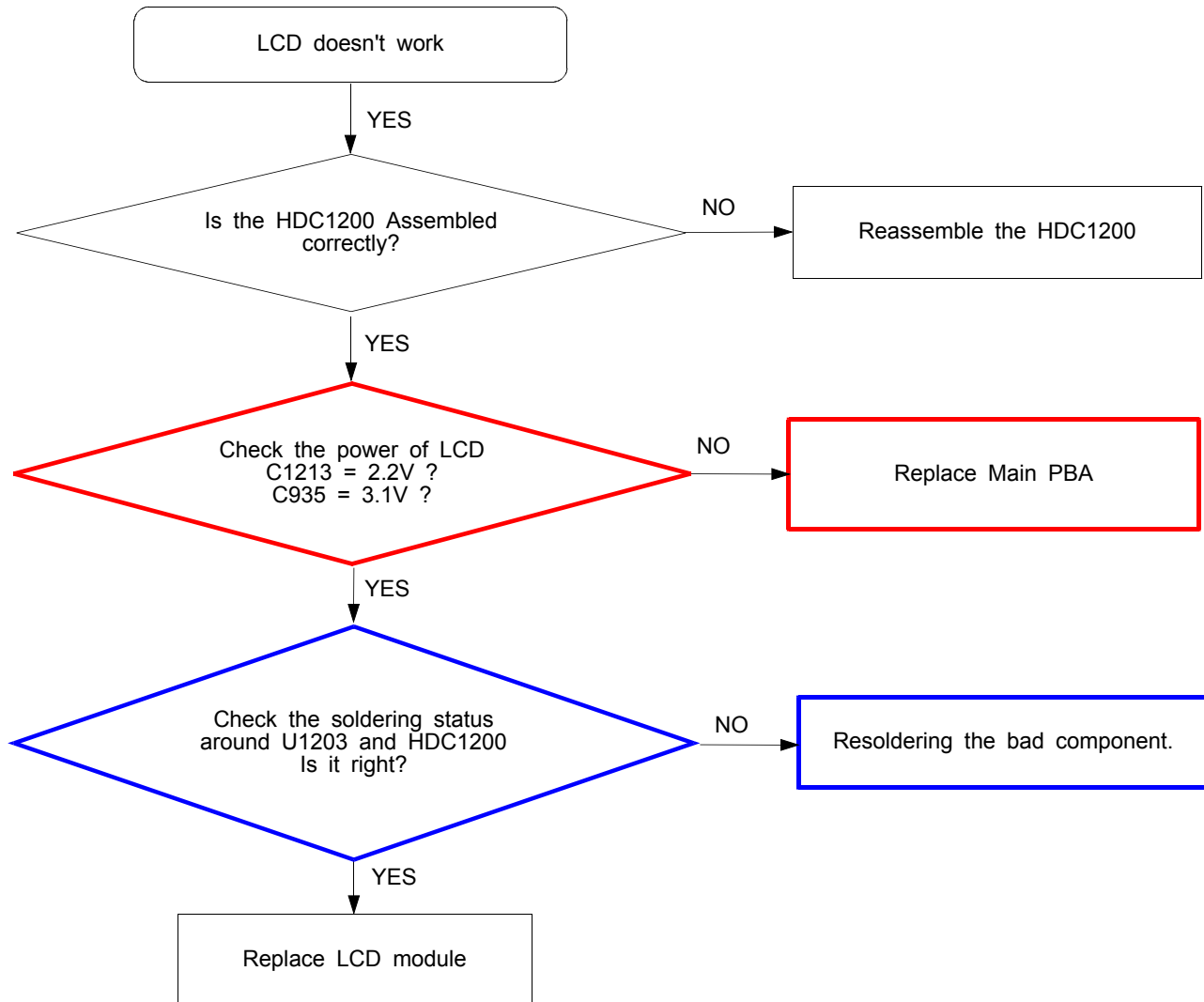


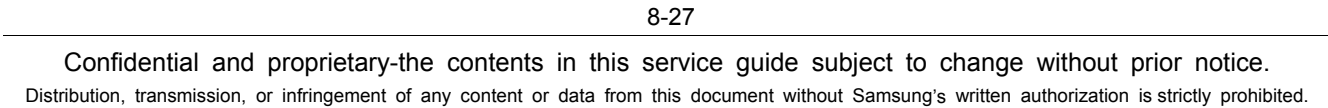
8-3-8. TSP



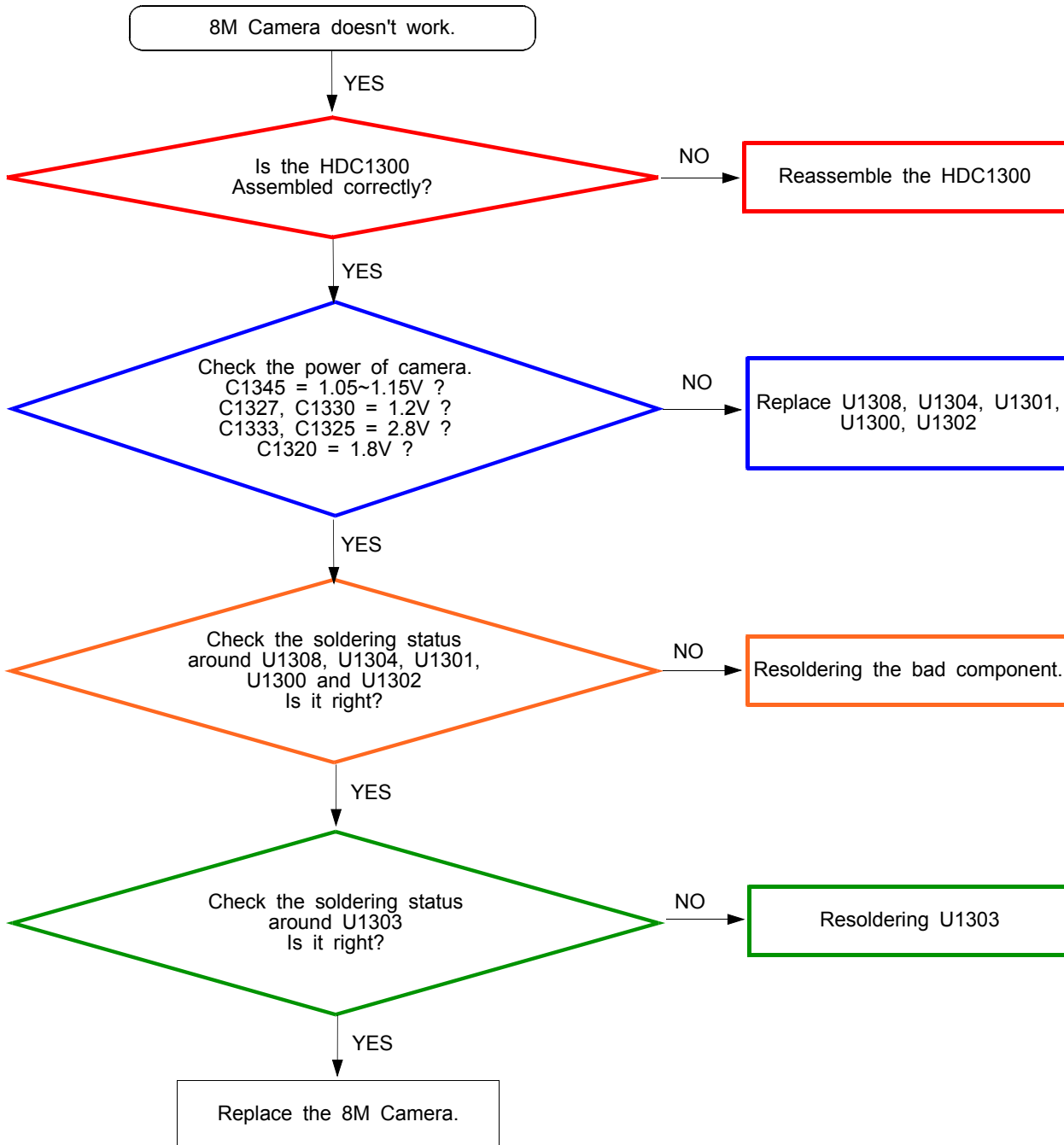


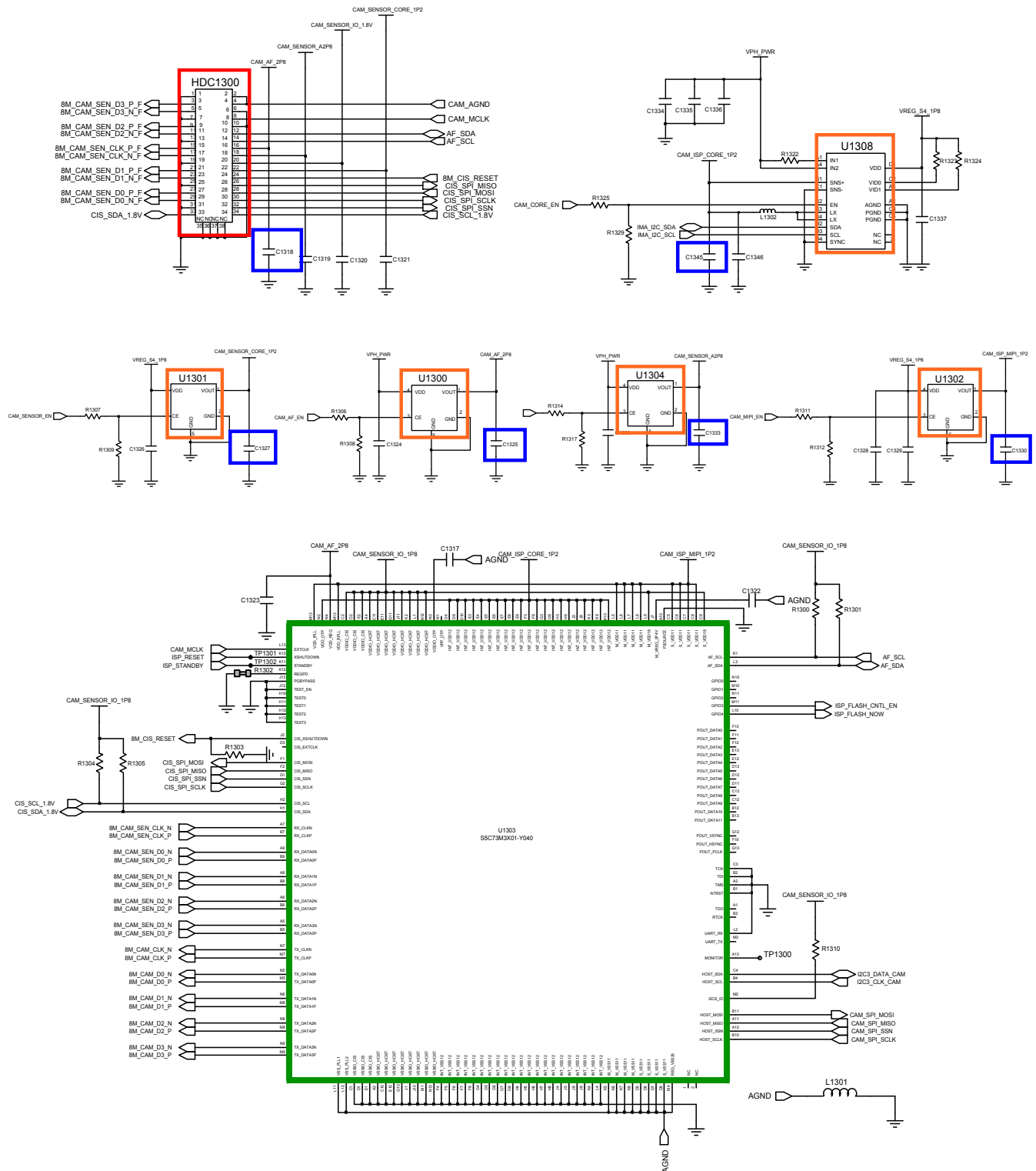
8-3-9. LCD PART

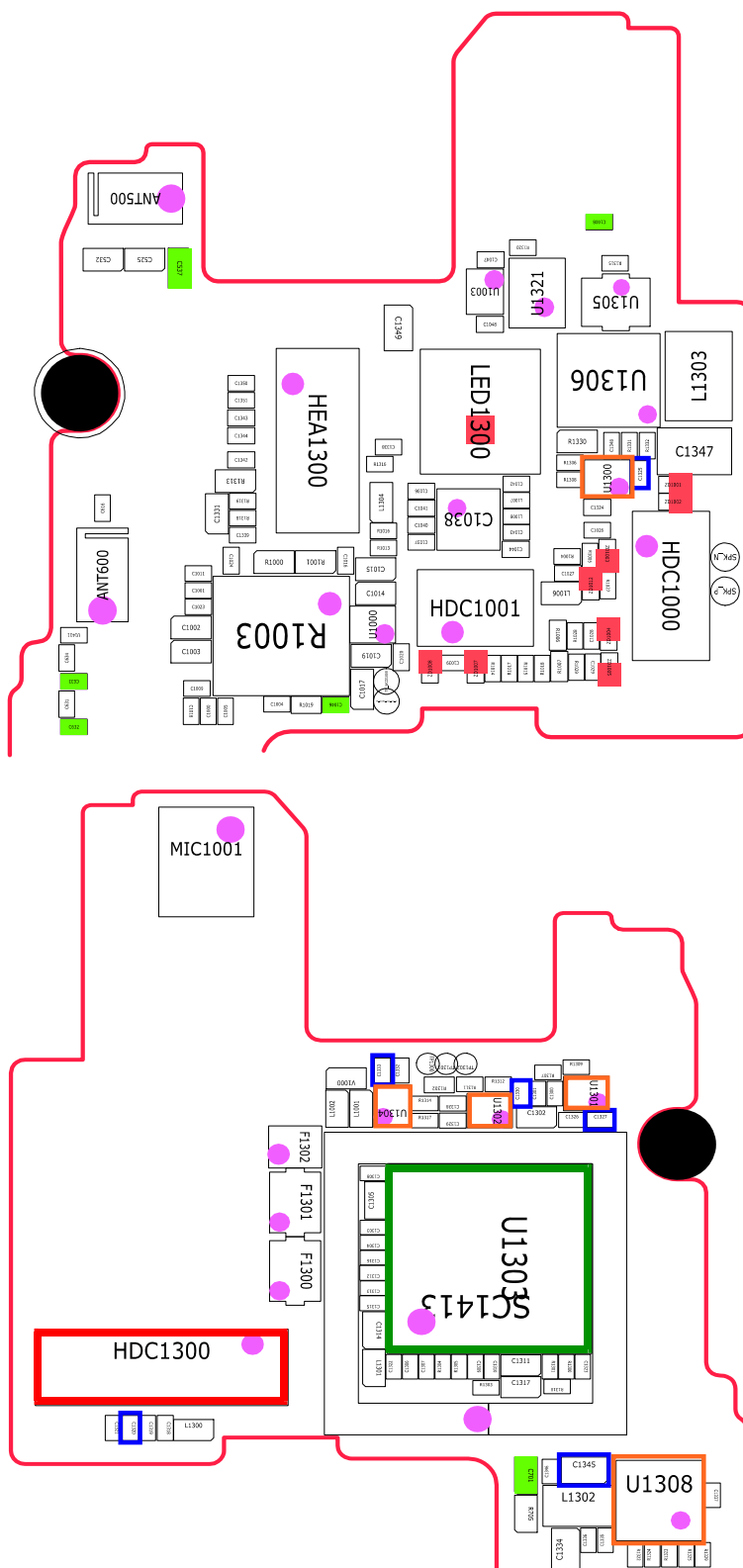




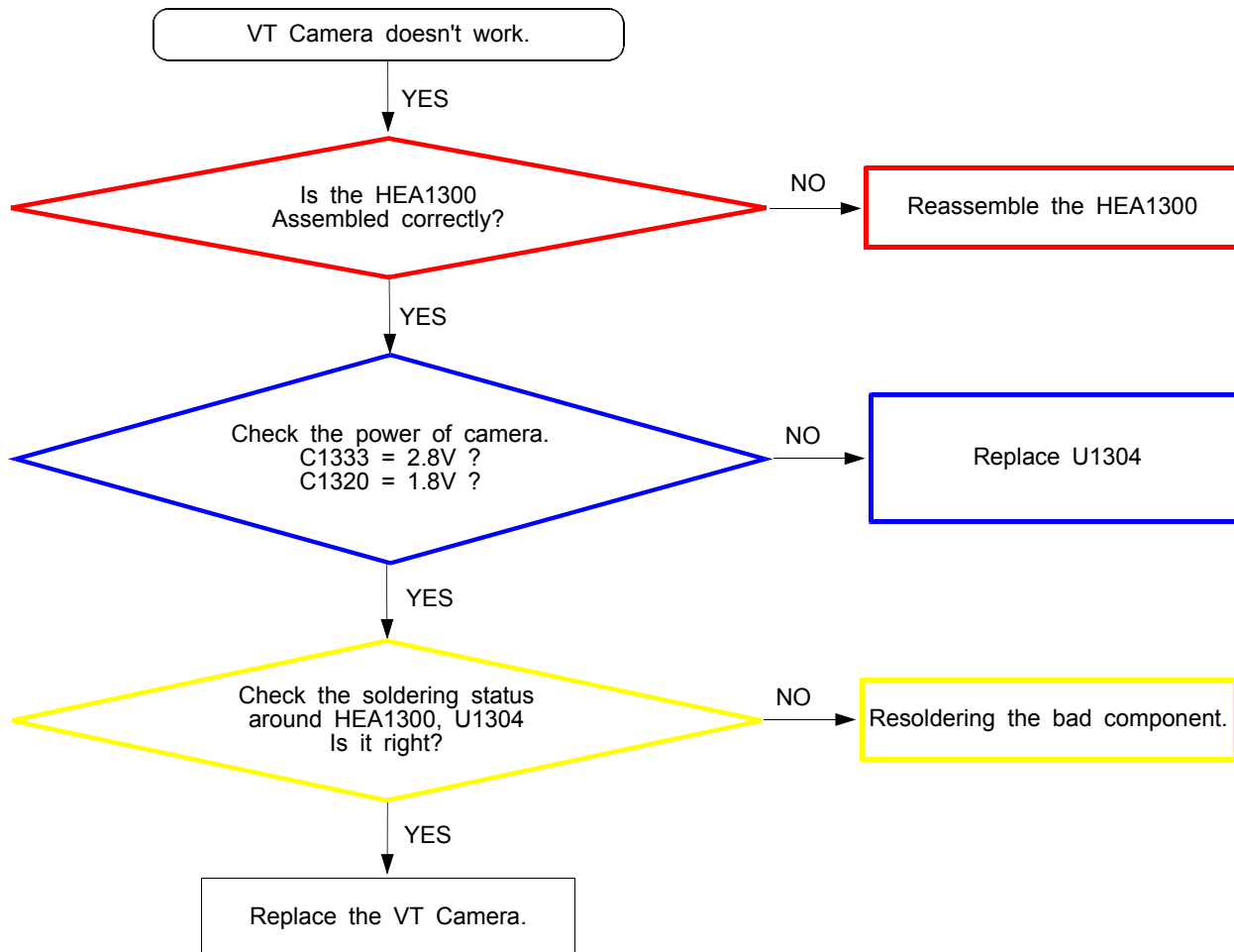
8-3-10. 8M Camera

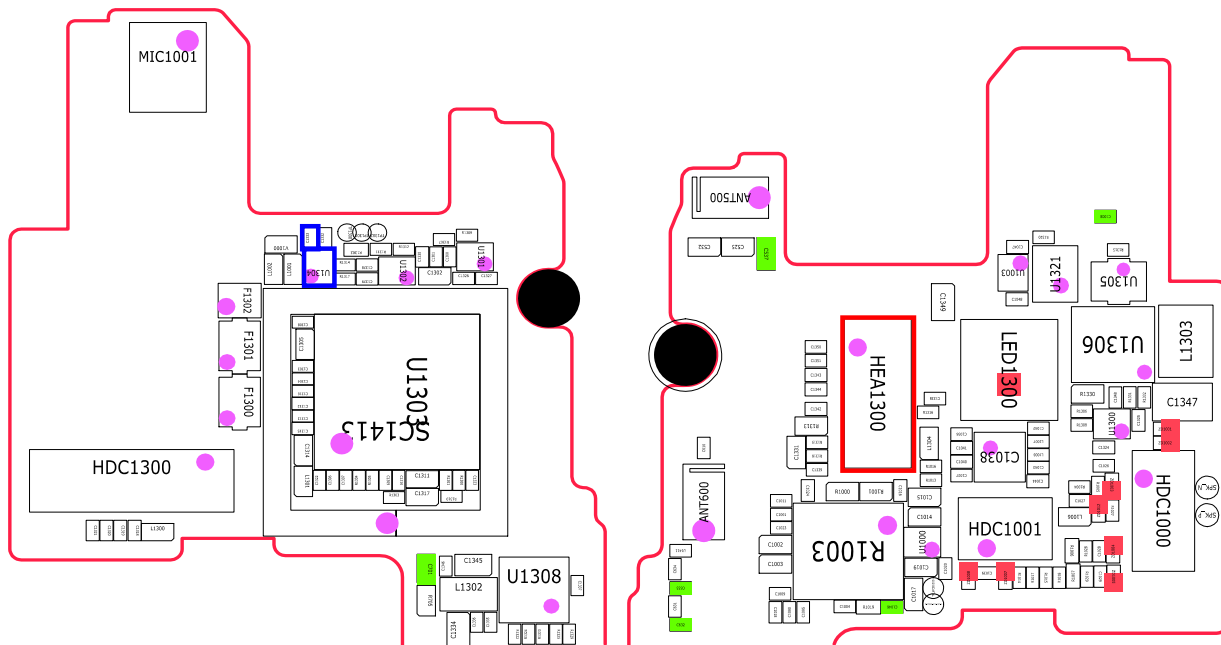




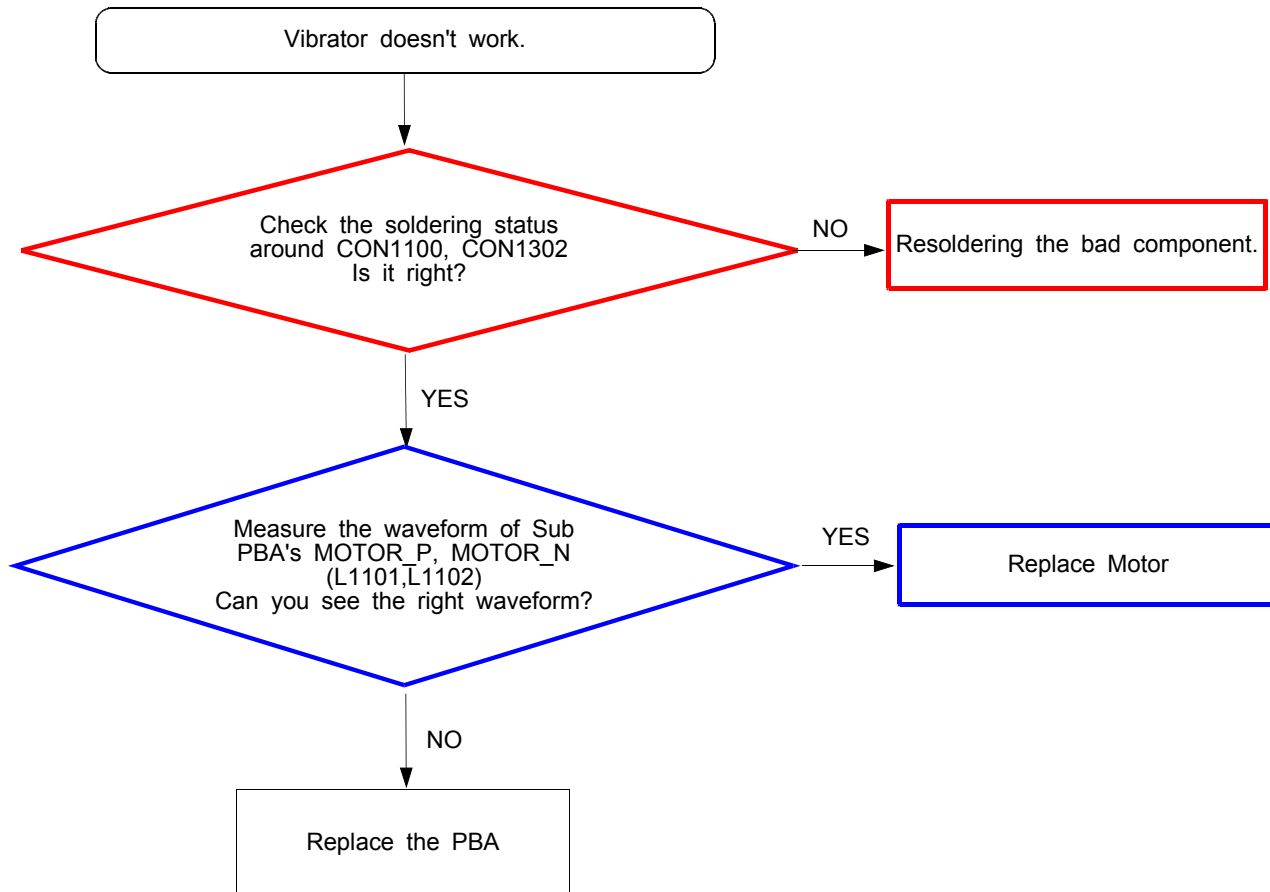


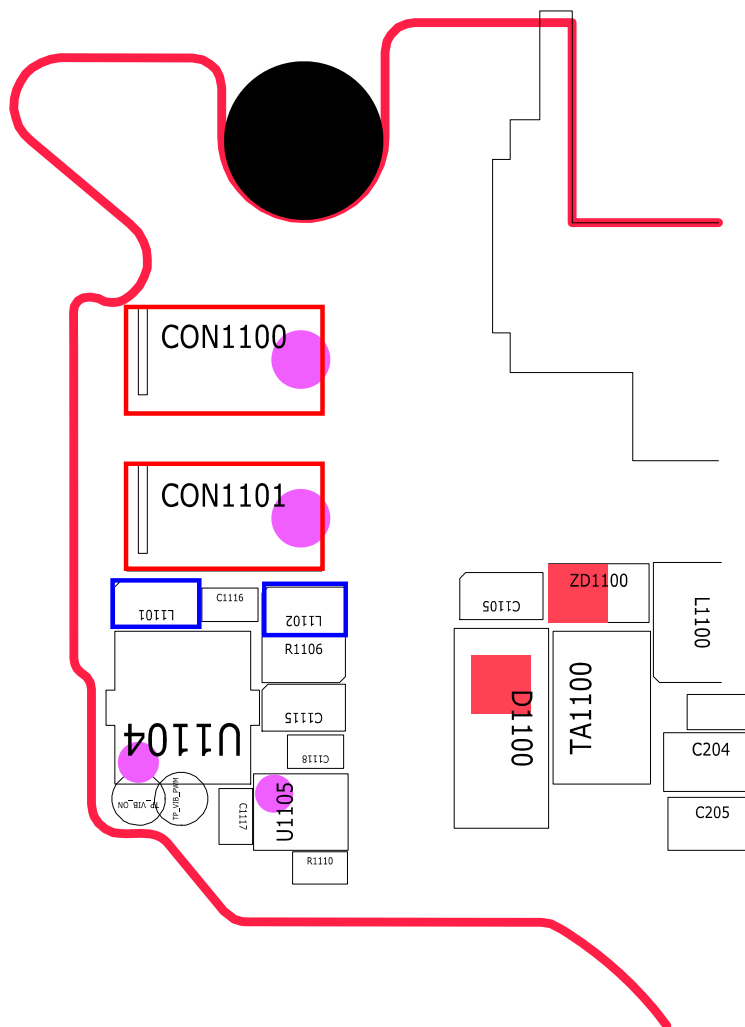
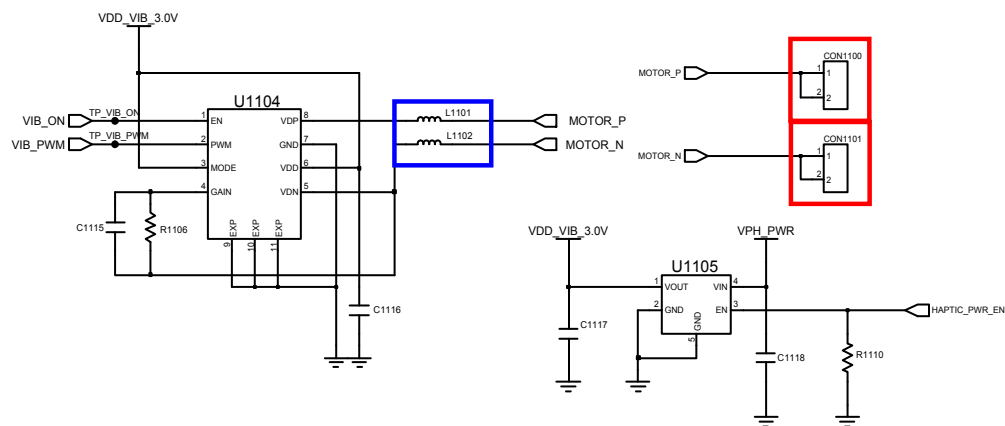
8-3-11. VT Camera





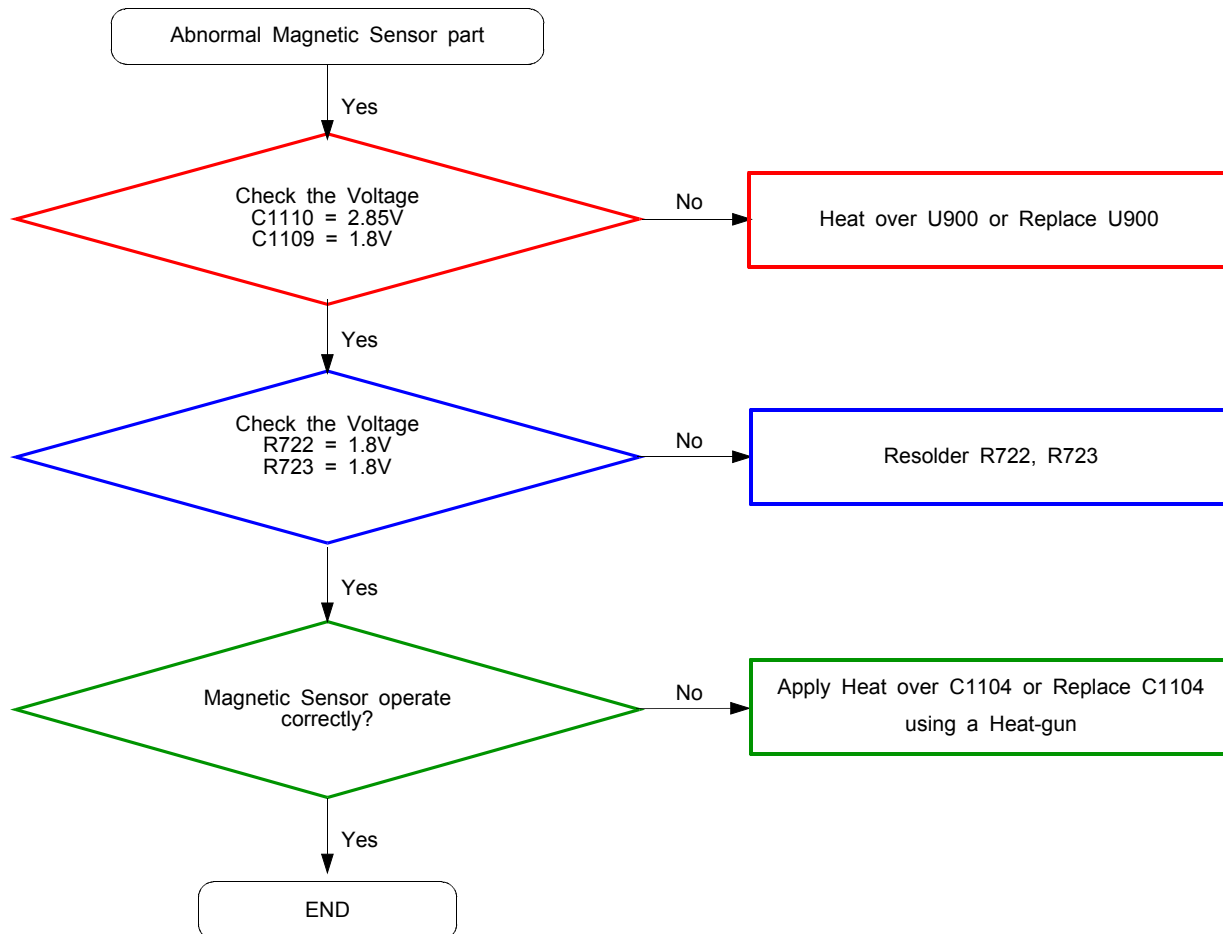
8-3-12.Vibration Motor

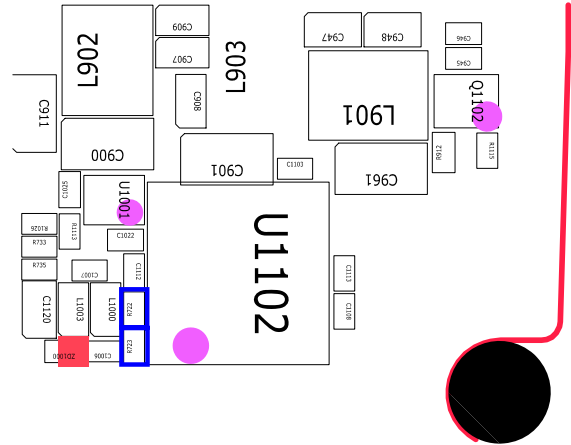
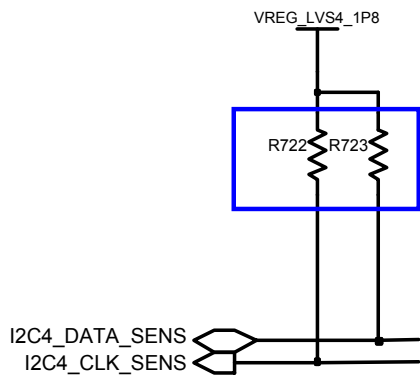
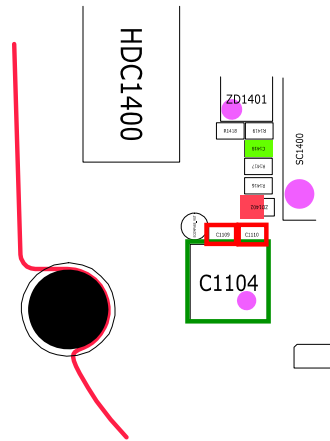
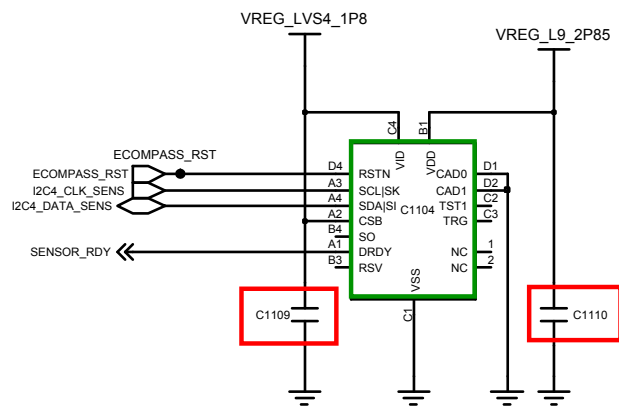




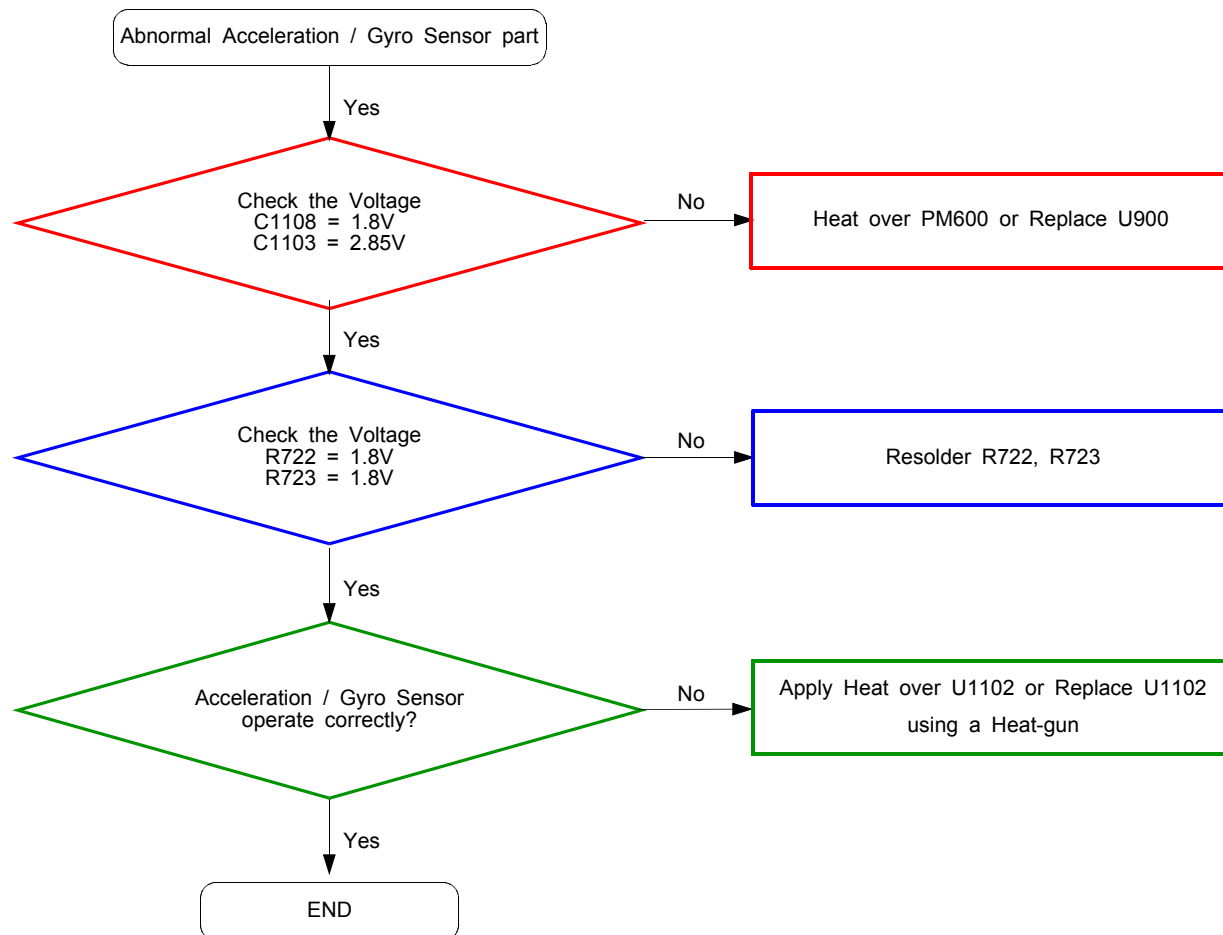
8-3-13.Sensor Part

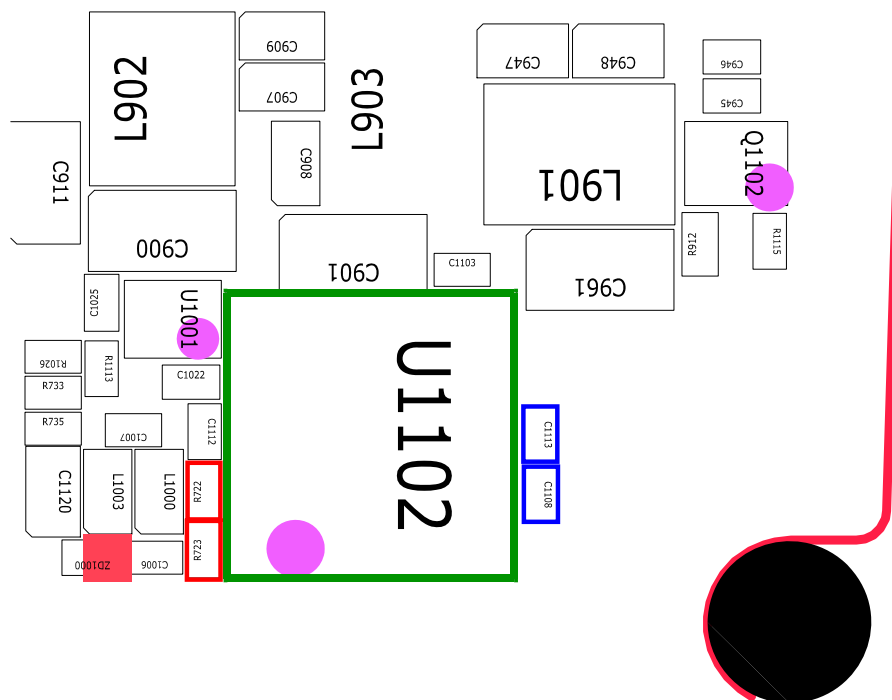
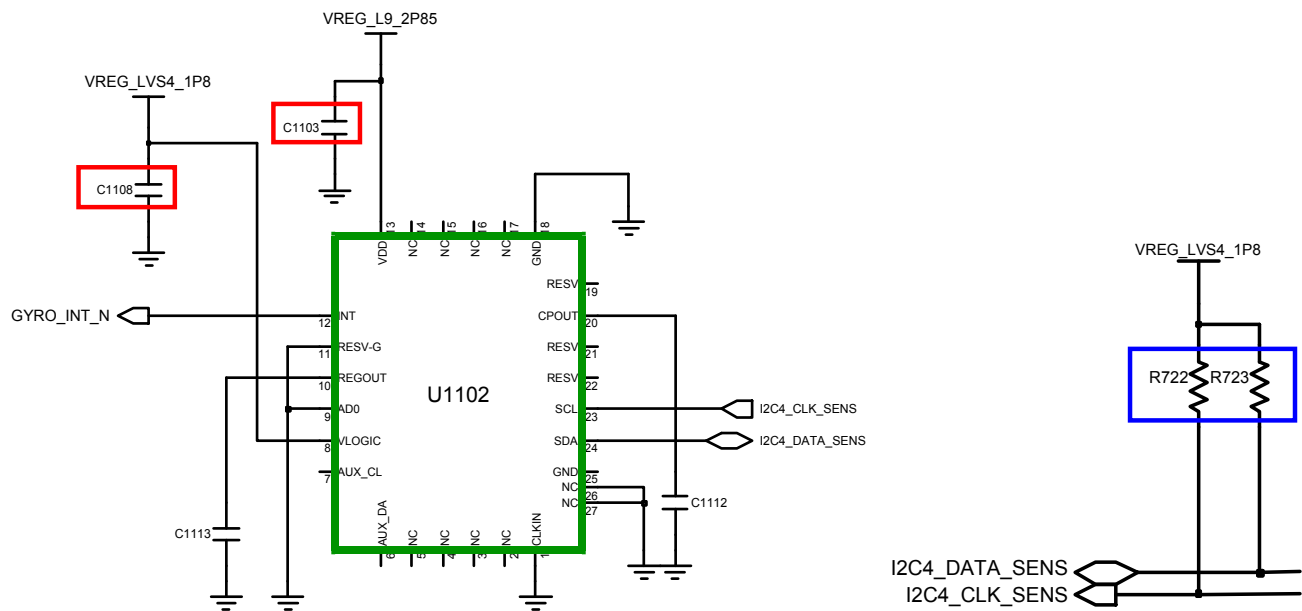
1. Magnetic Sensor



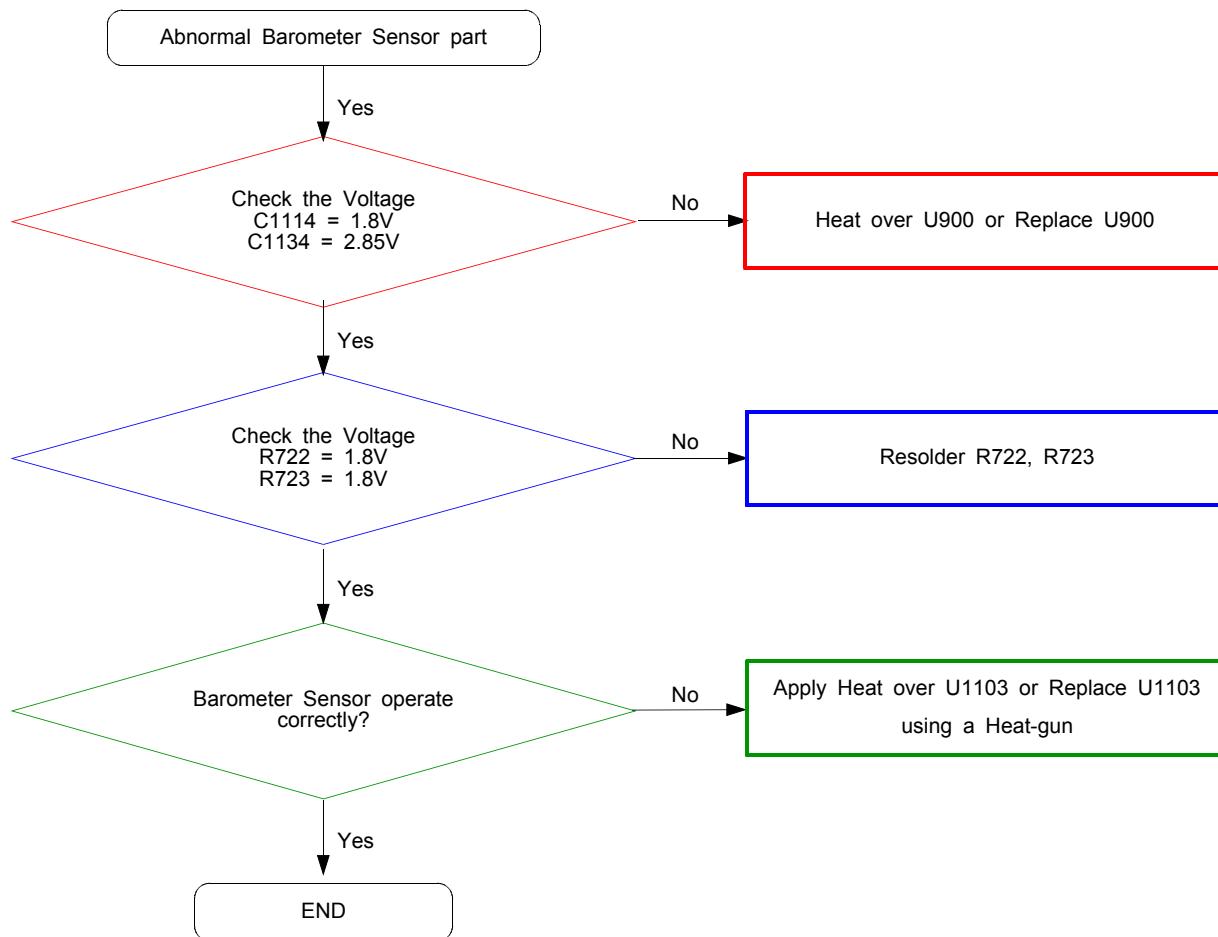


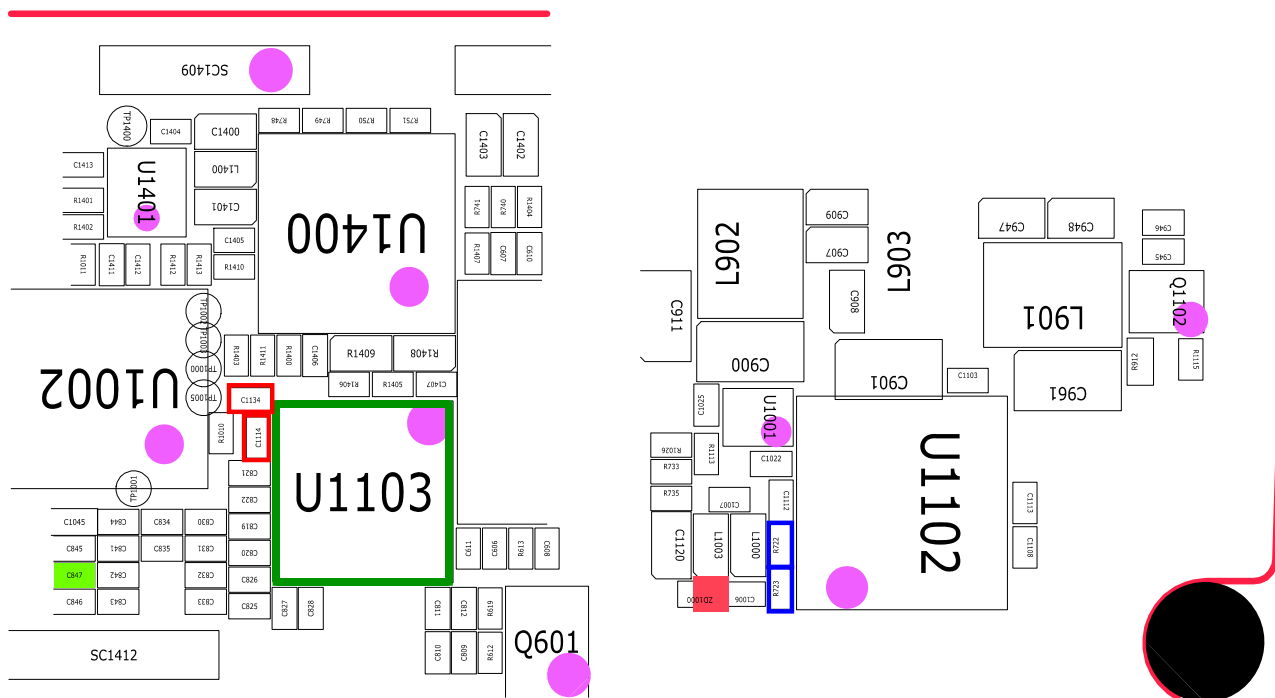
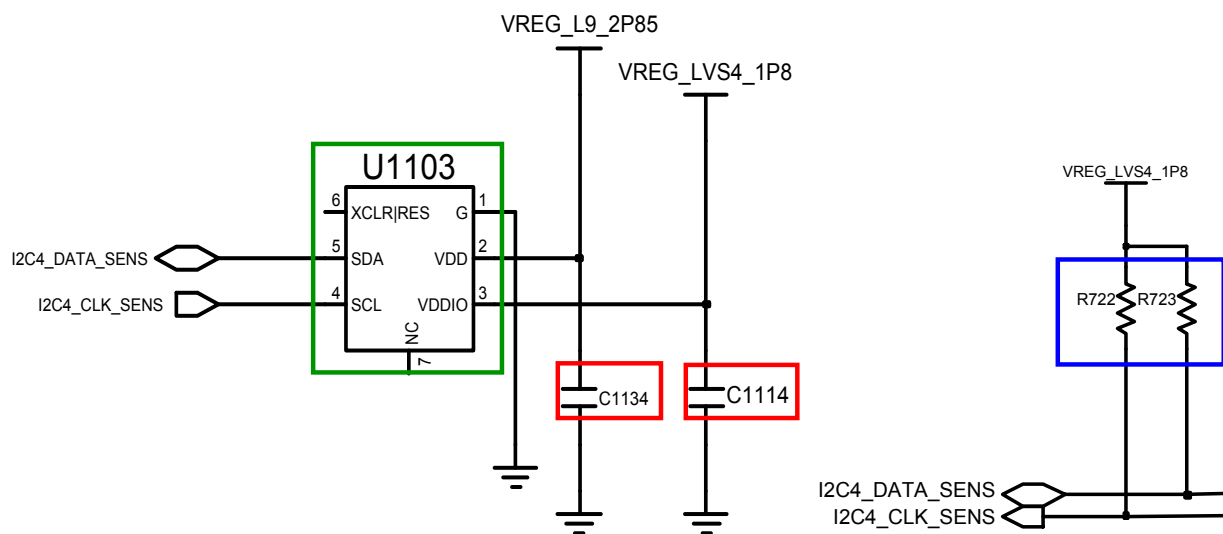
2. Acceleration / Gyro Sensor



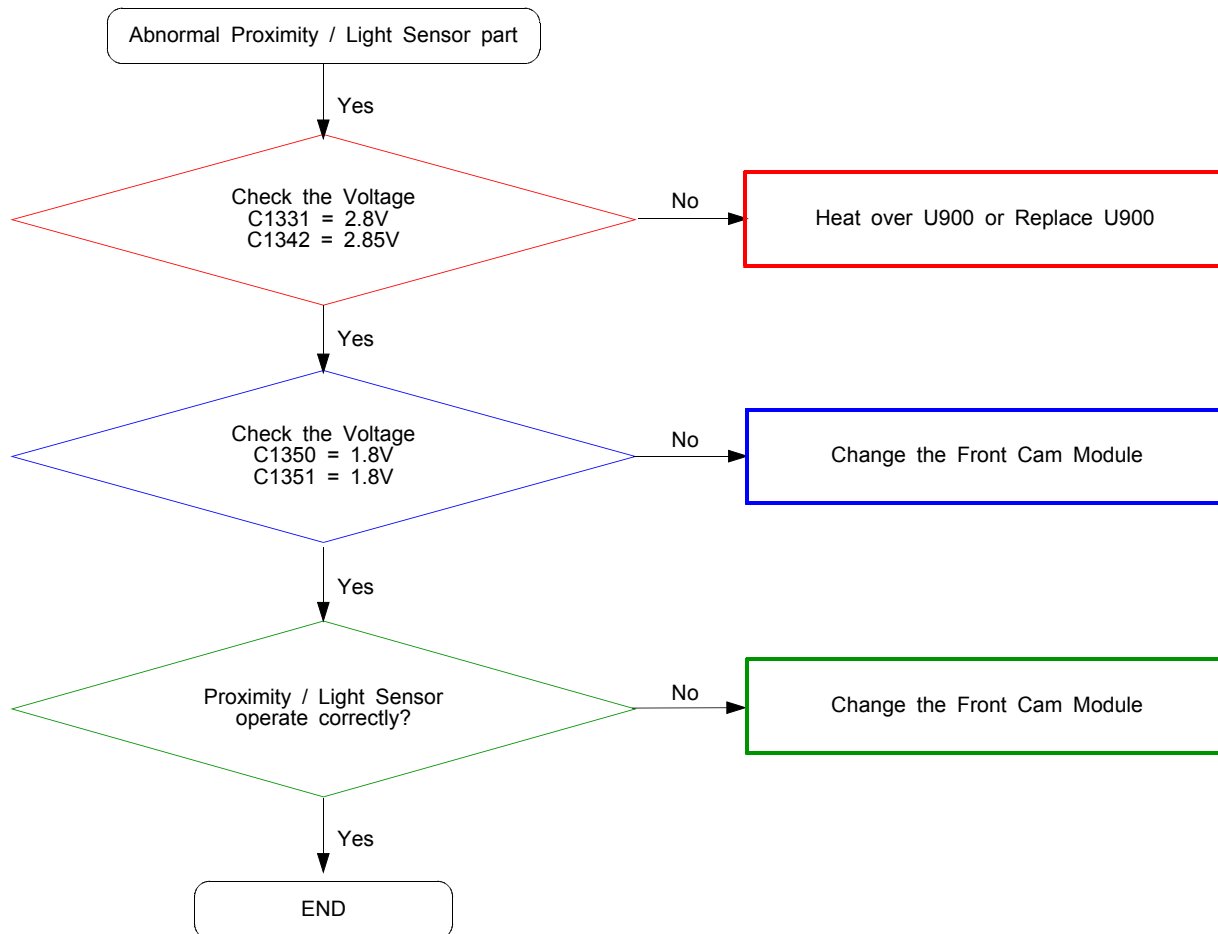


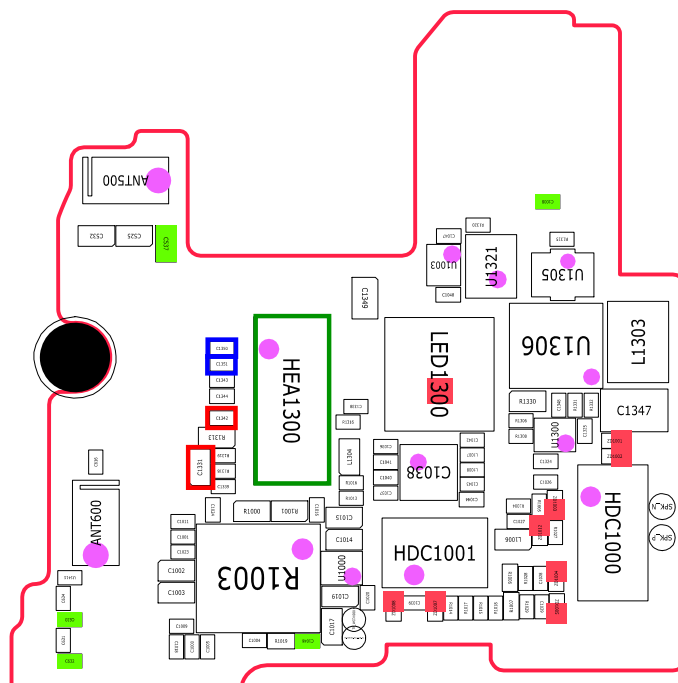
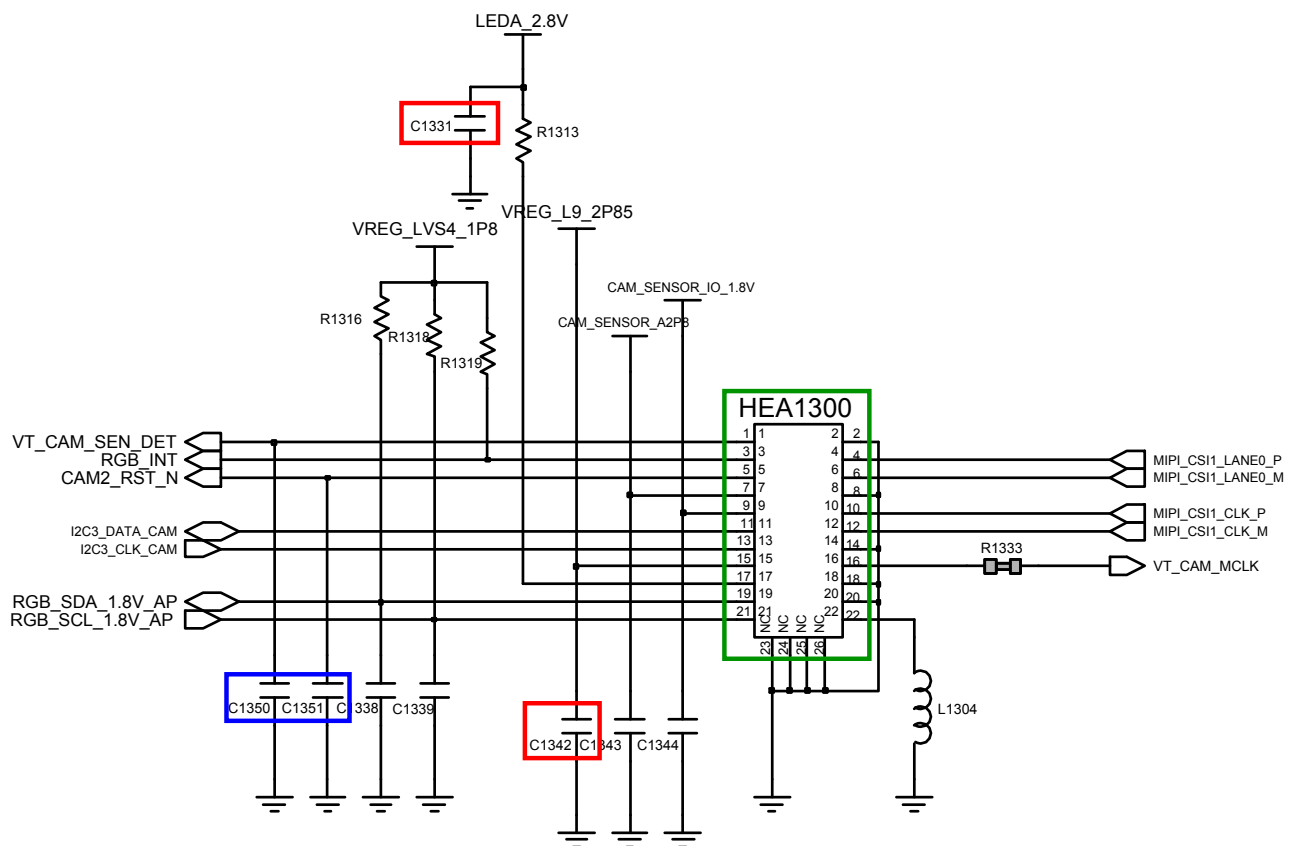
3. Barometer



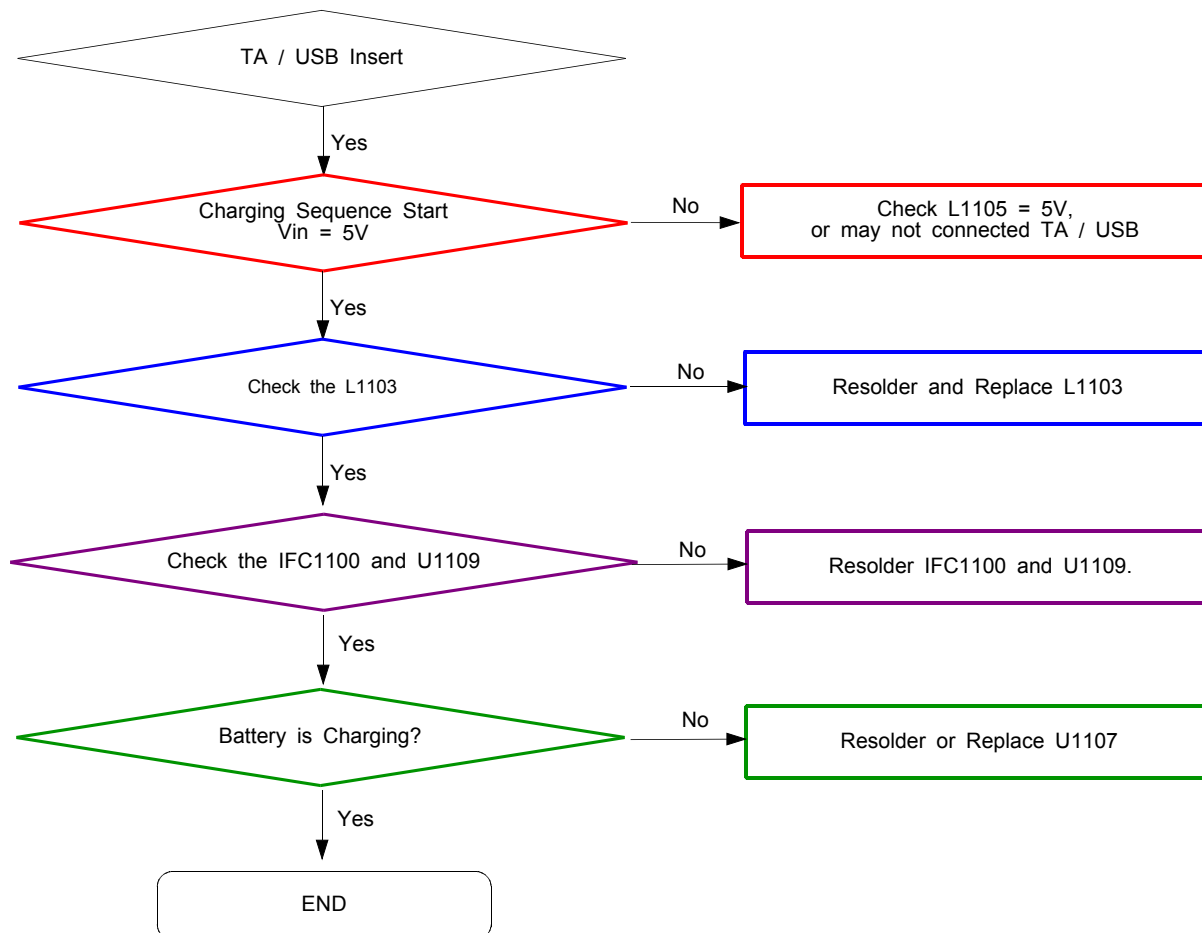


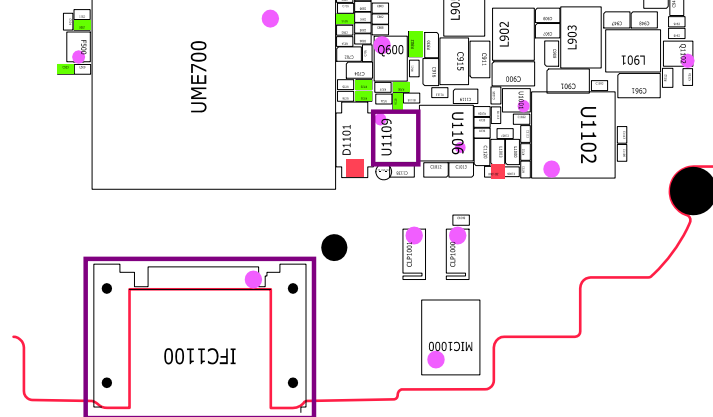
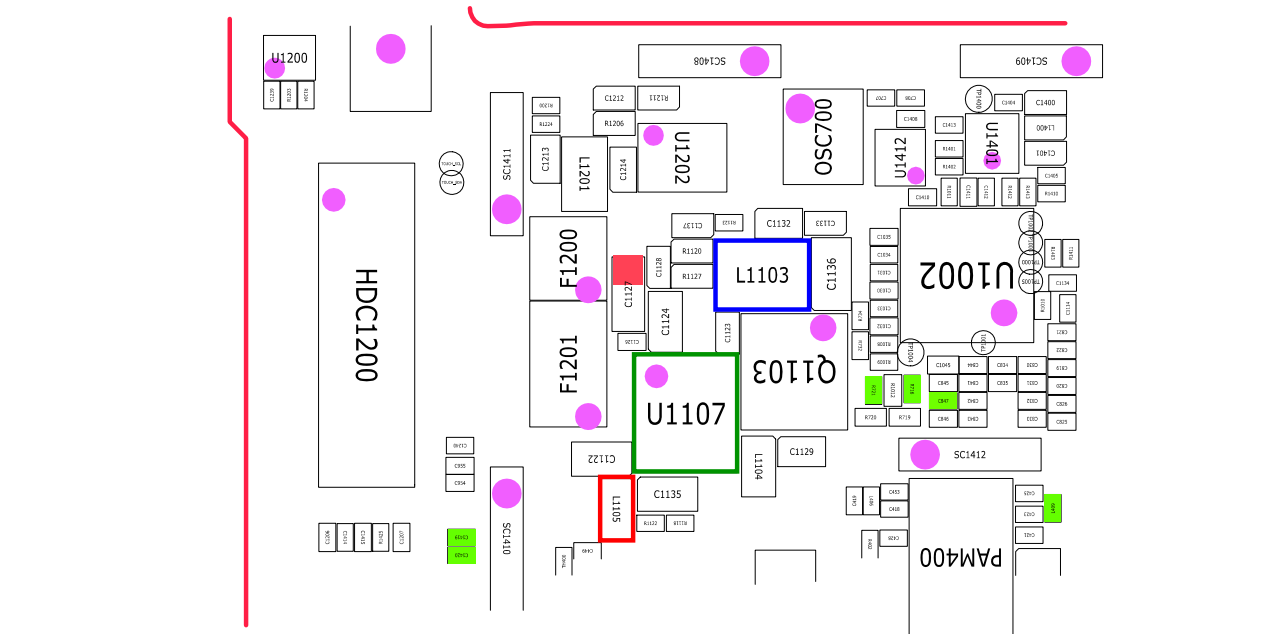
4. Proximity / Light Sensor



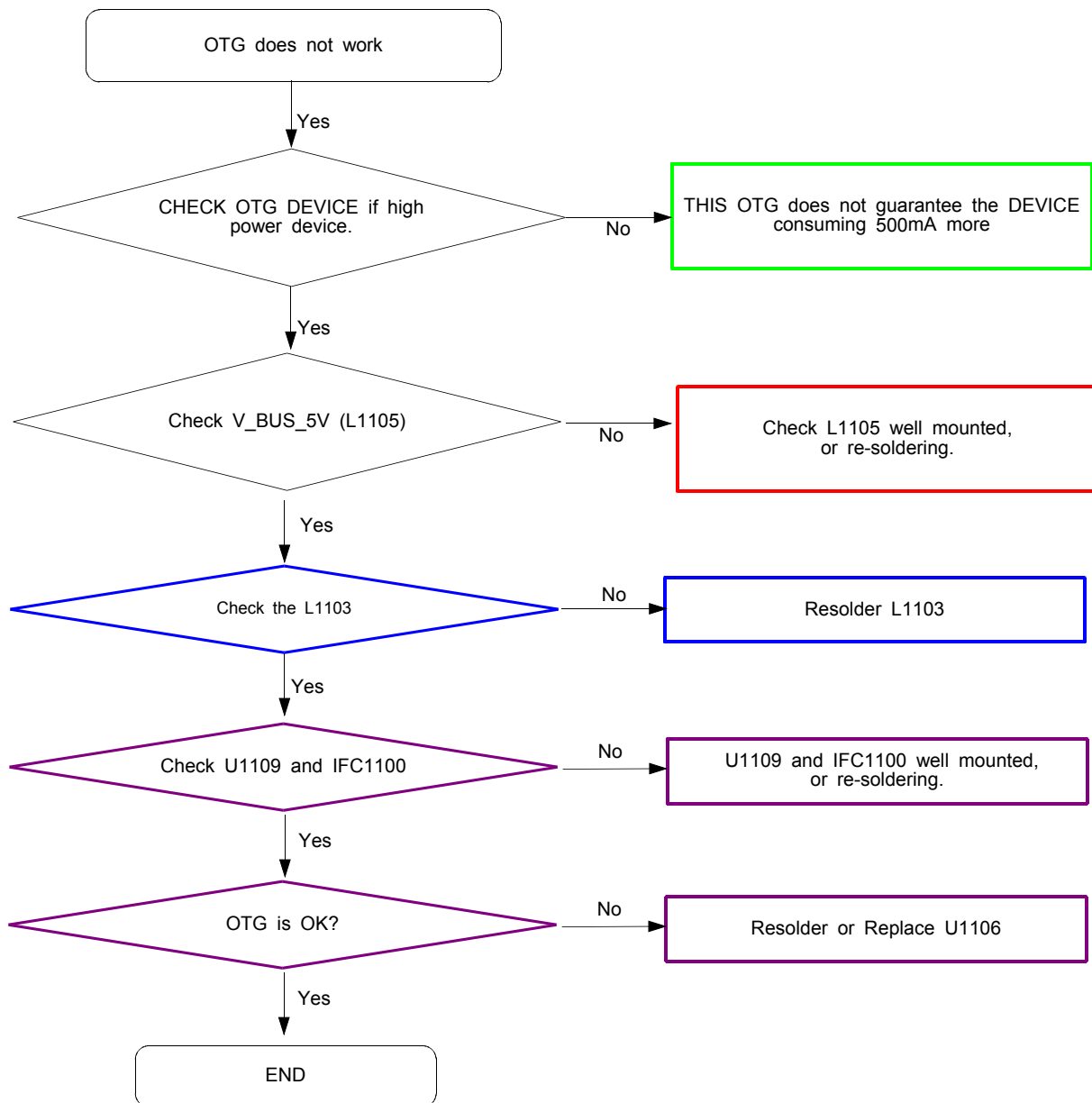


8-3-14. Charging Part



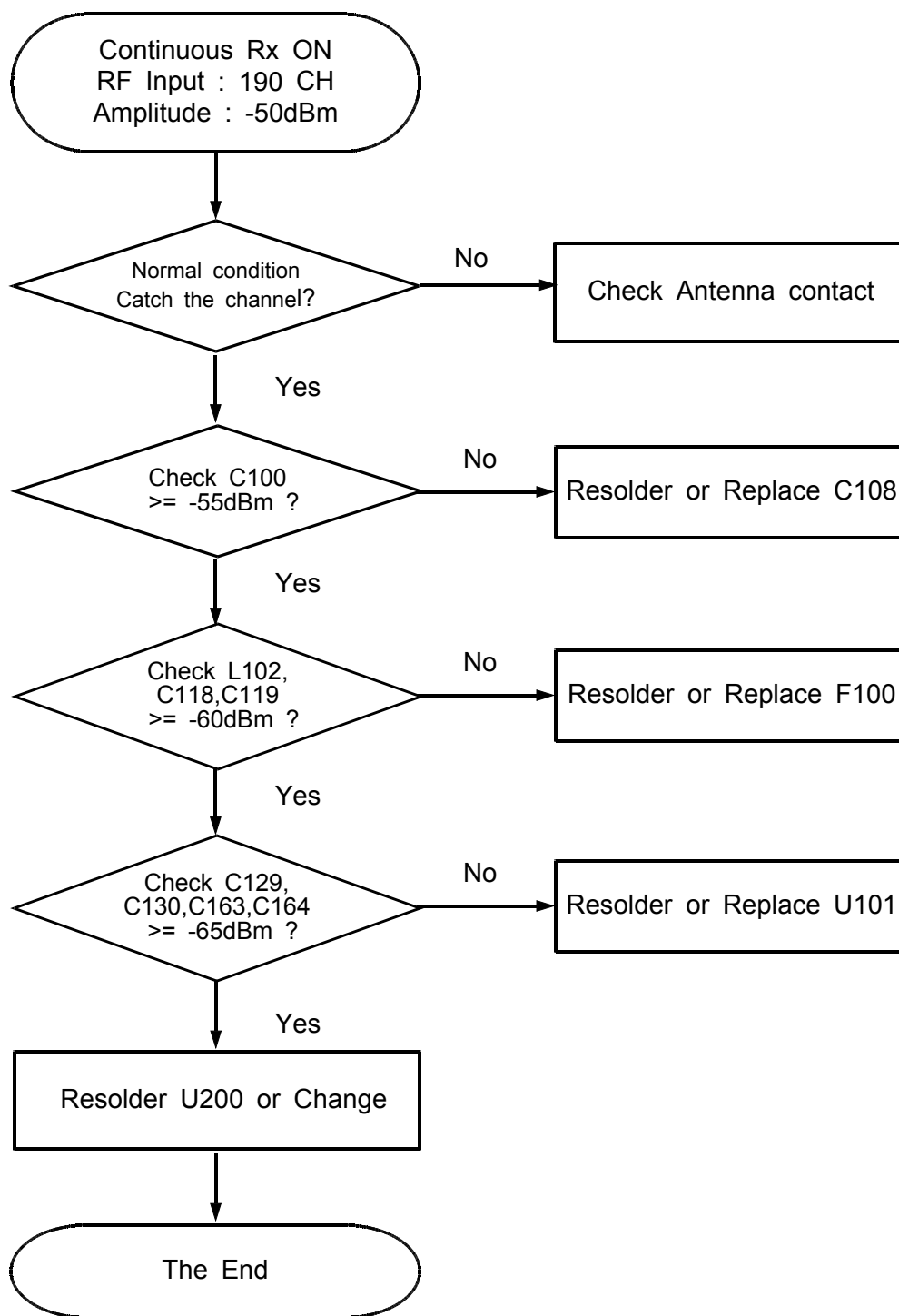


8-3-15. OTG



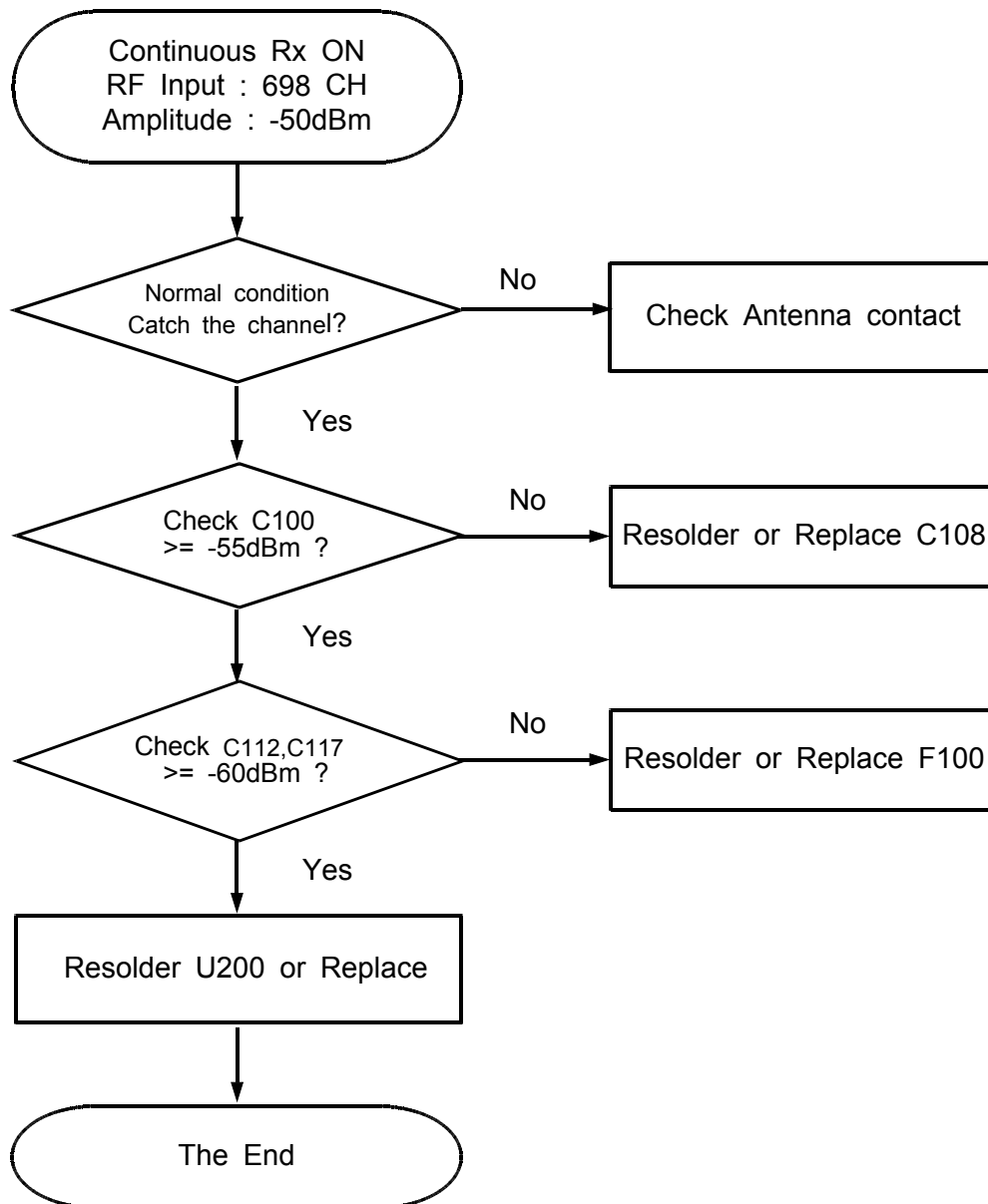
8-4-1. GSM850/900 RX

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



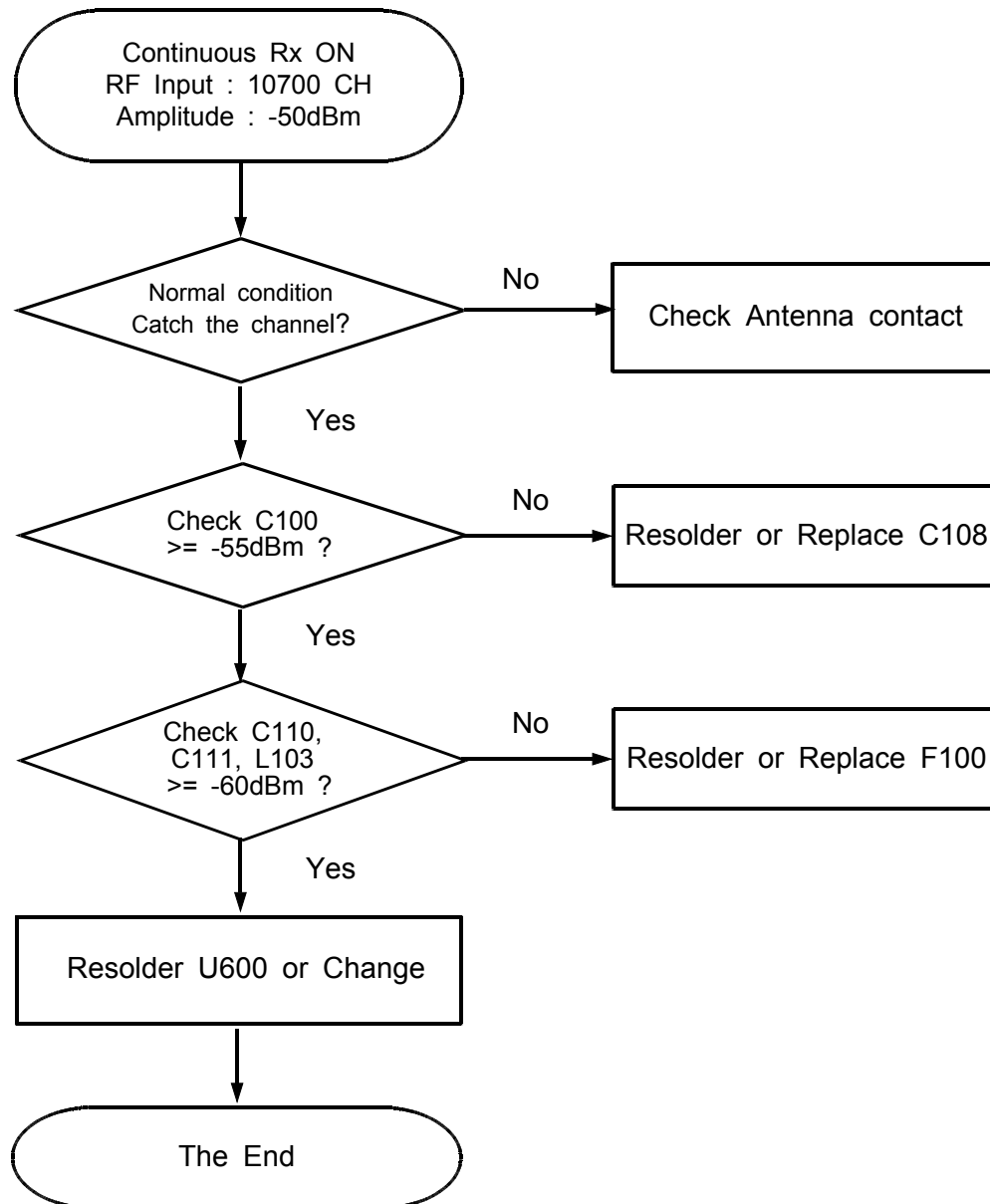
8-4-2. DCS/PCS RX

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

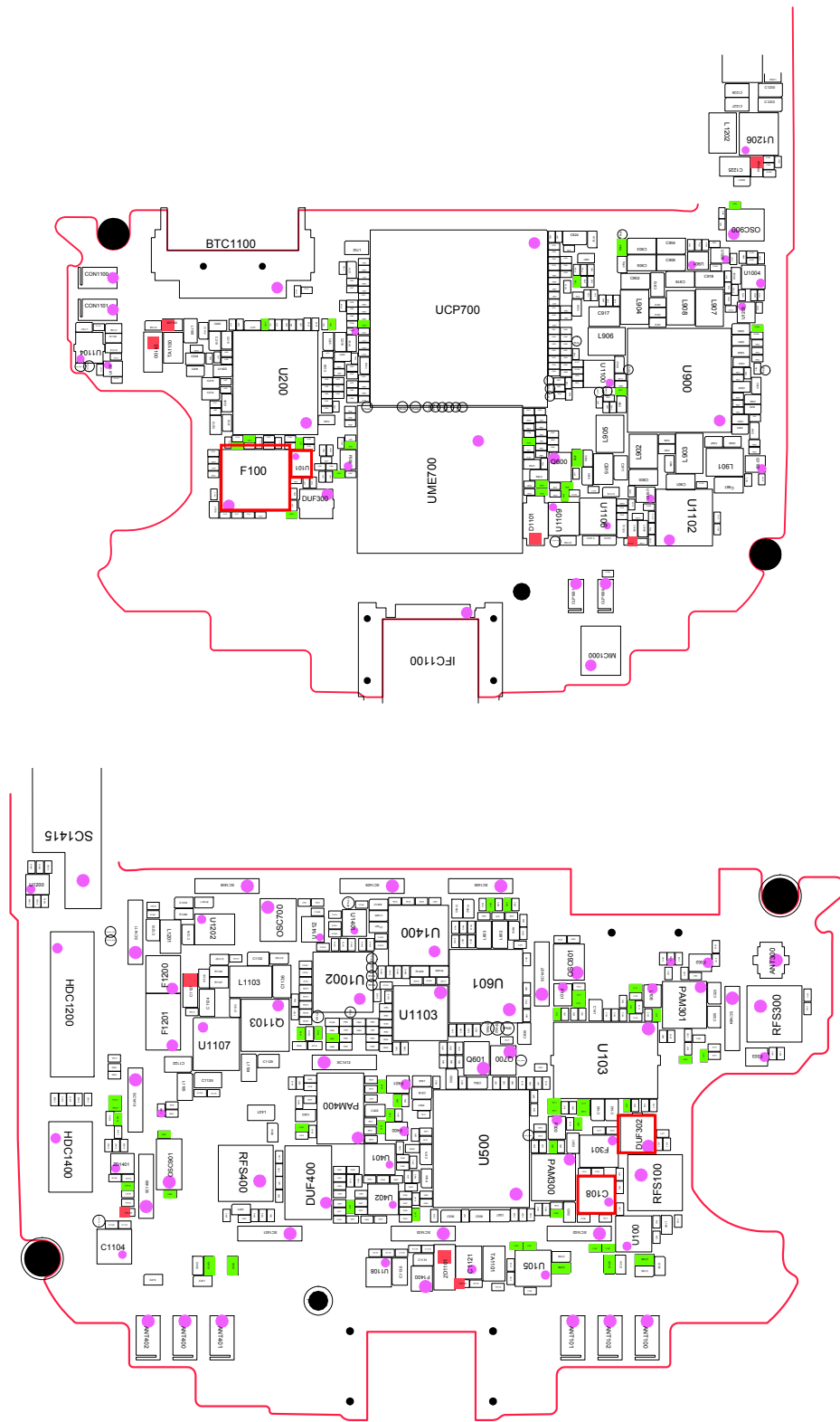


8-4-3. WCDMA Band1 RX

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

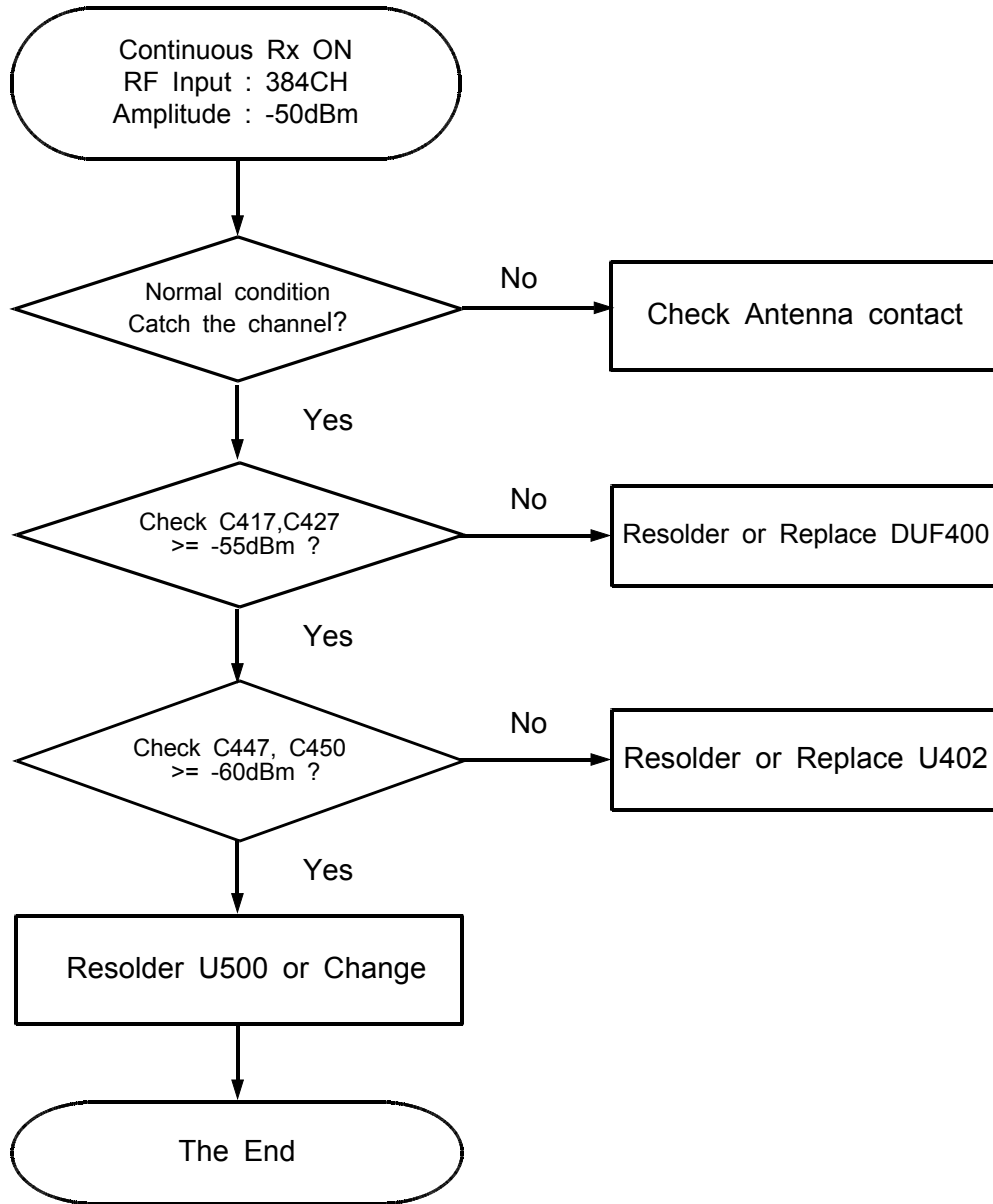






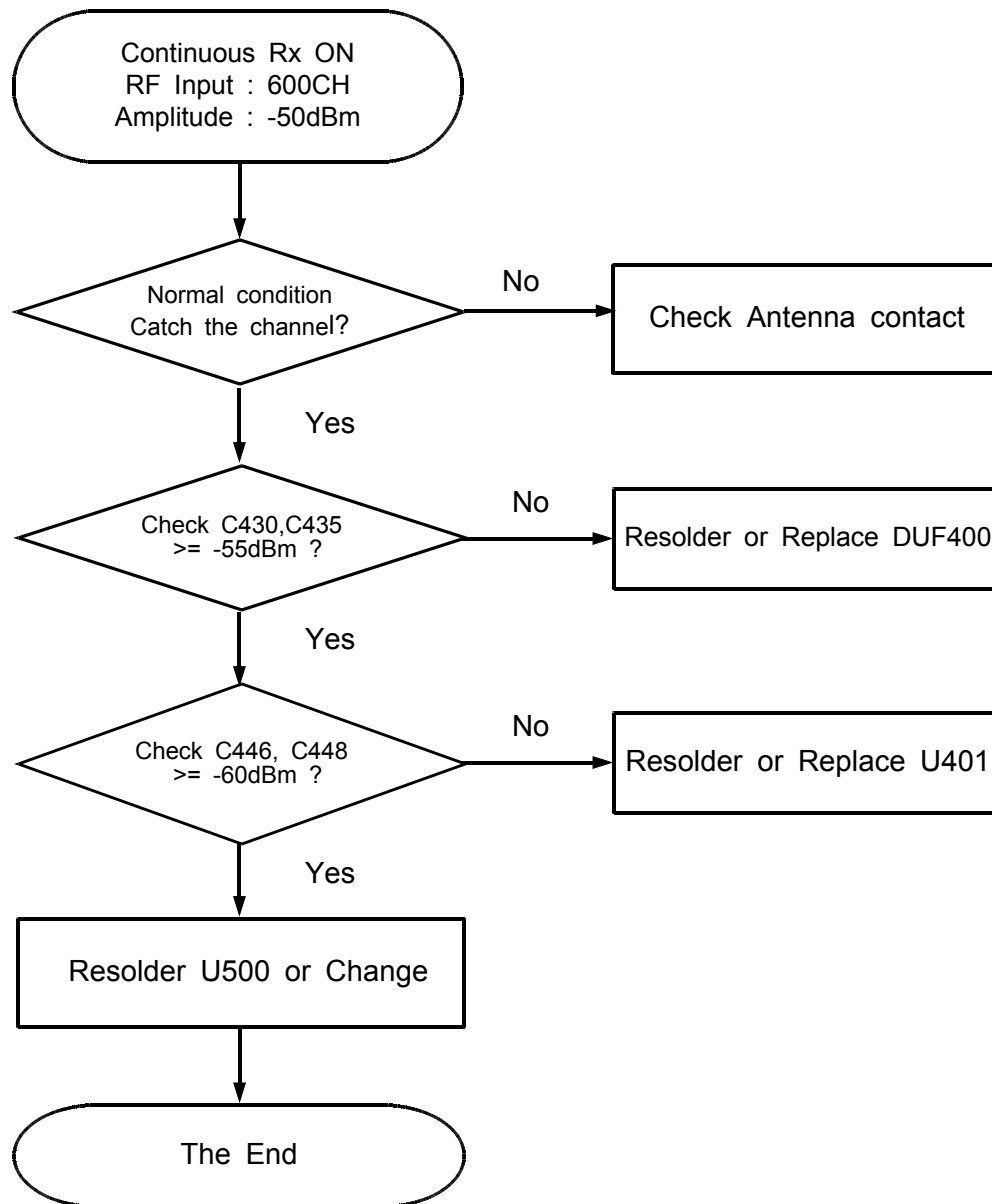
8-4-4. 1x CDMA RX

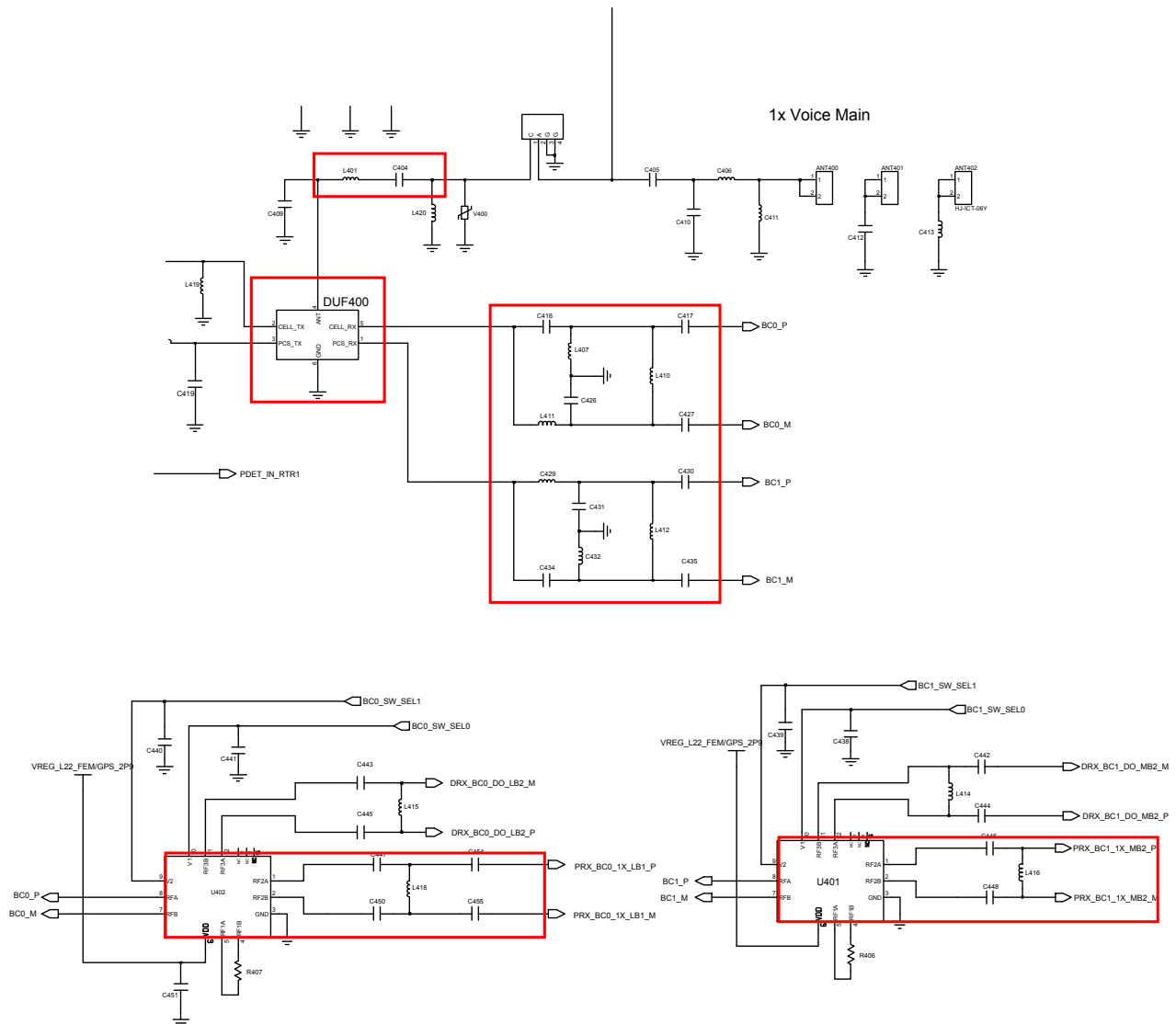
**If you check the Rx chain, Check the not only RF Device but also resistor, inductor and capacitor.



8-4-5. 1x PCS RX

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

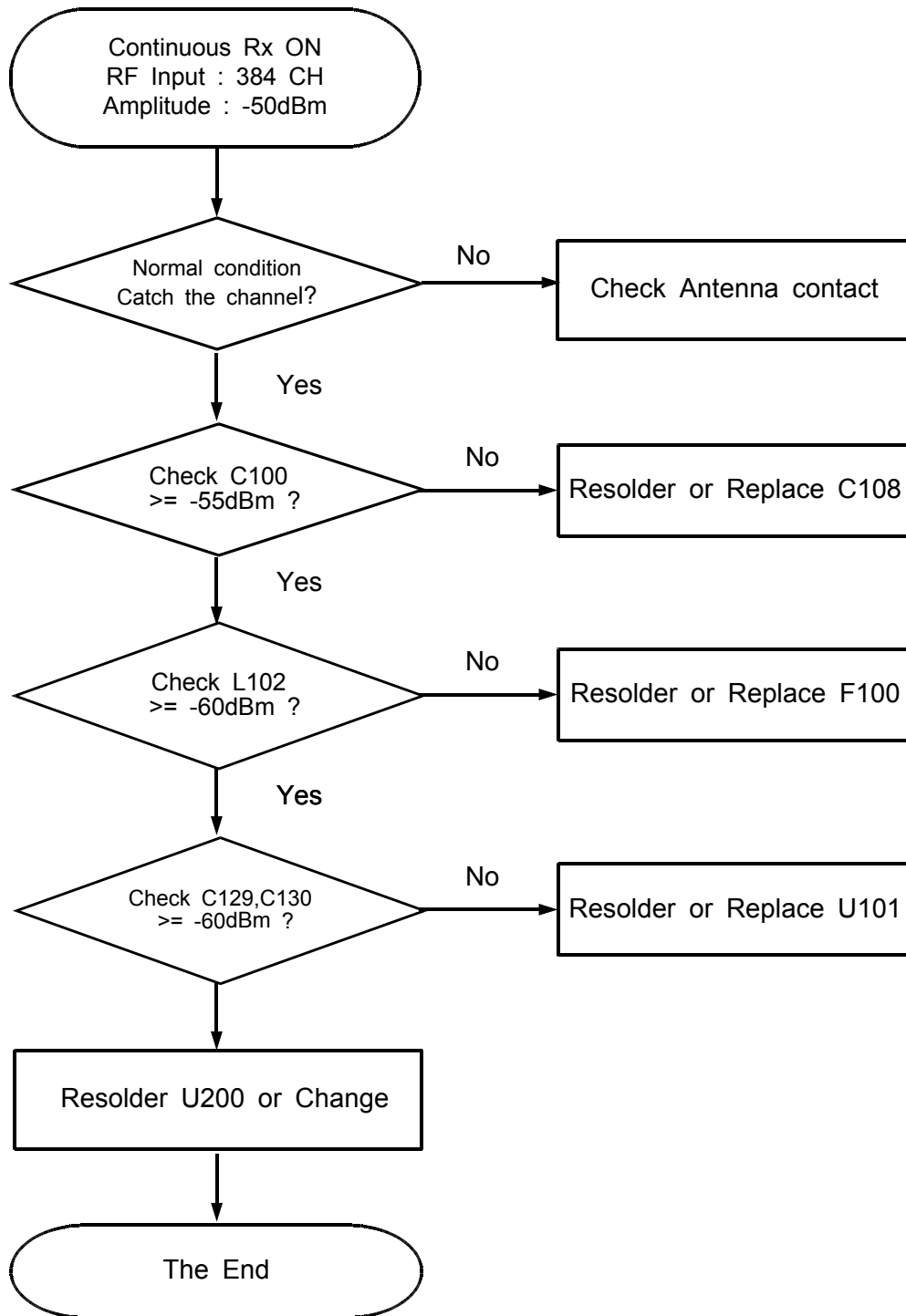


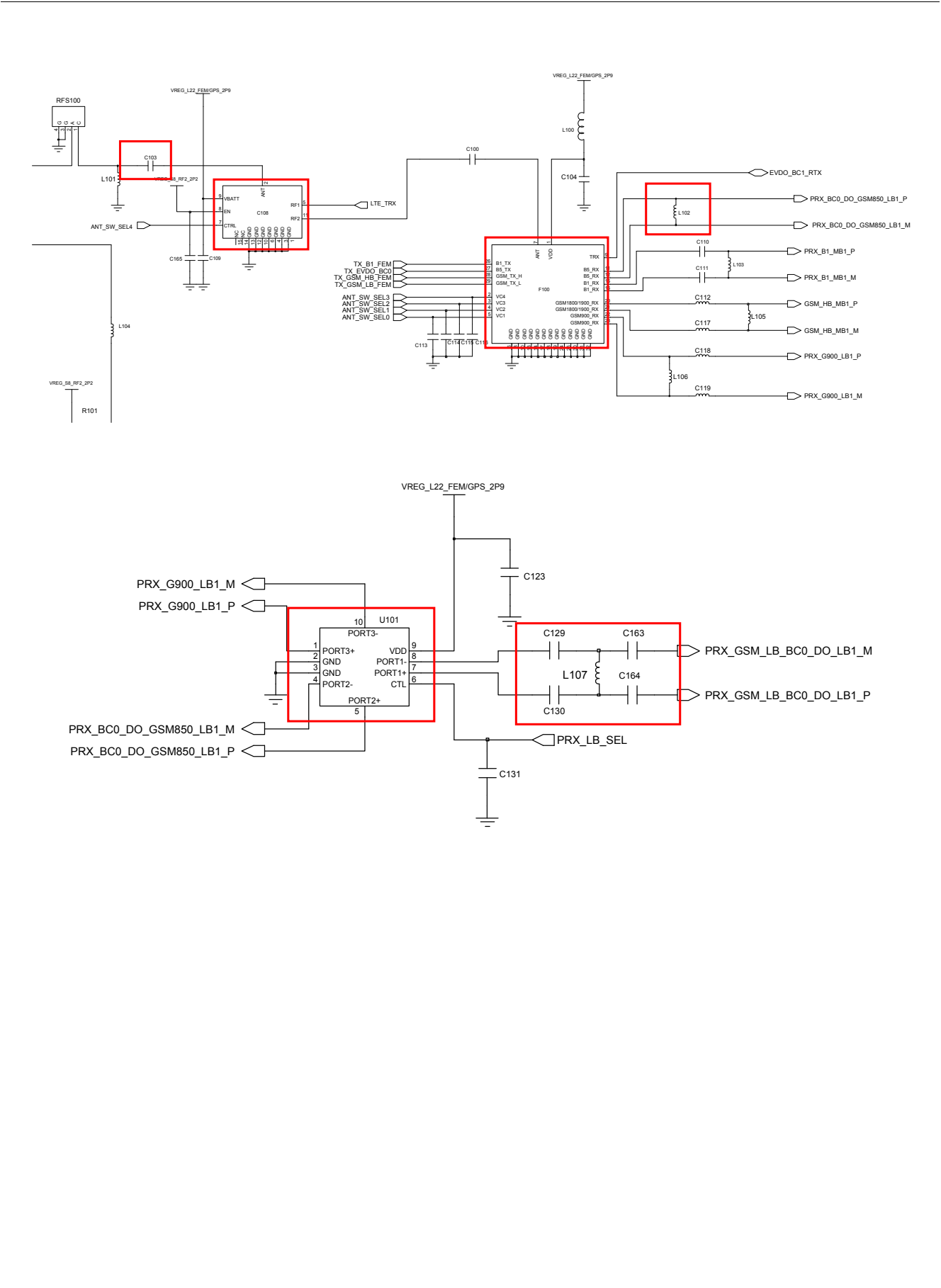


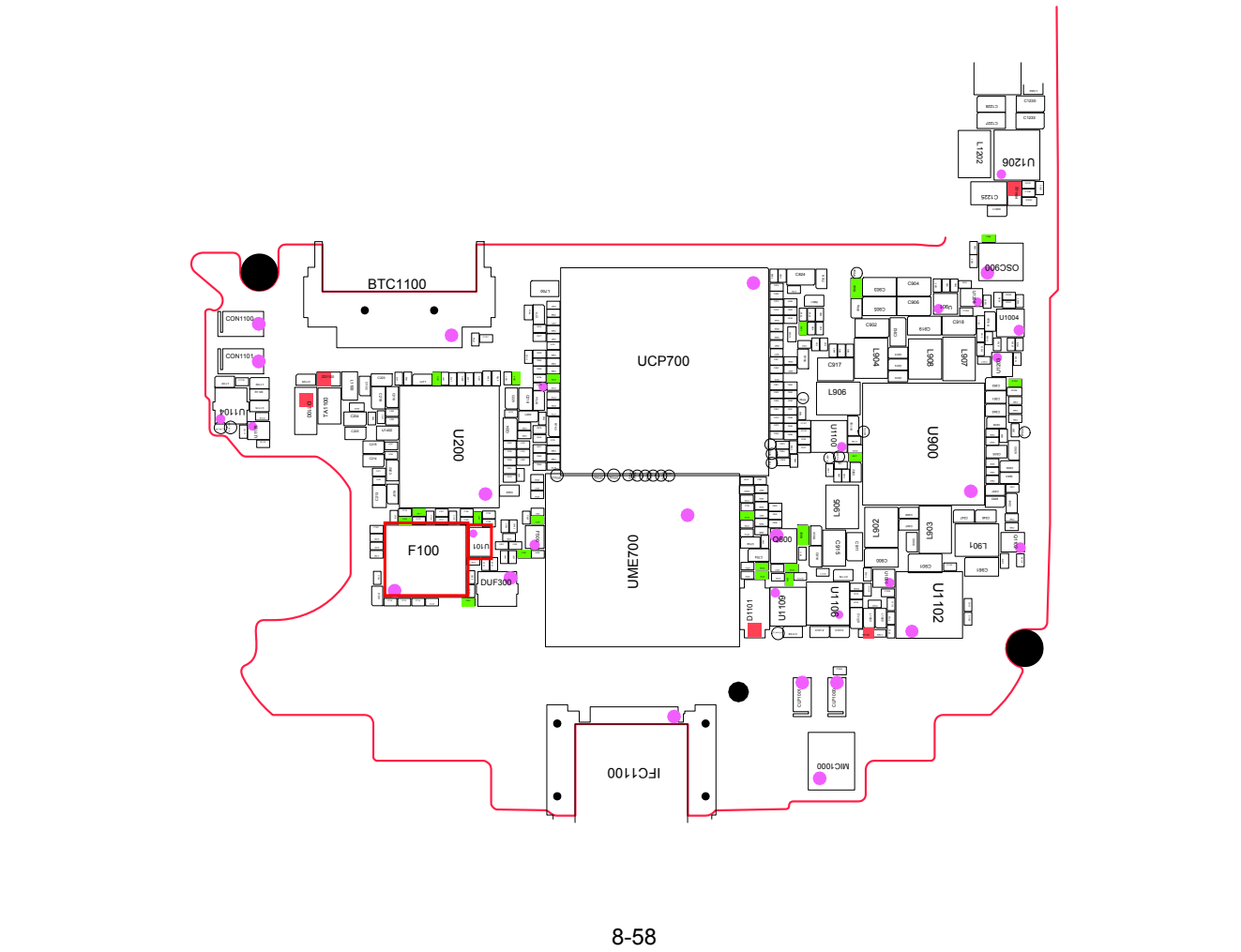


8-4-6. EVDO CDMA RX

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

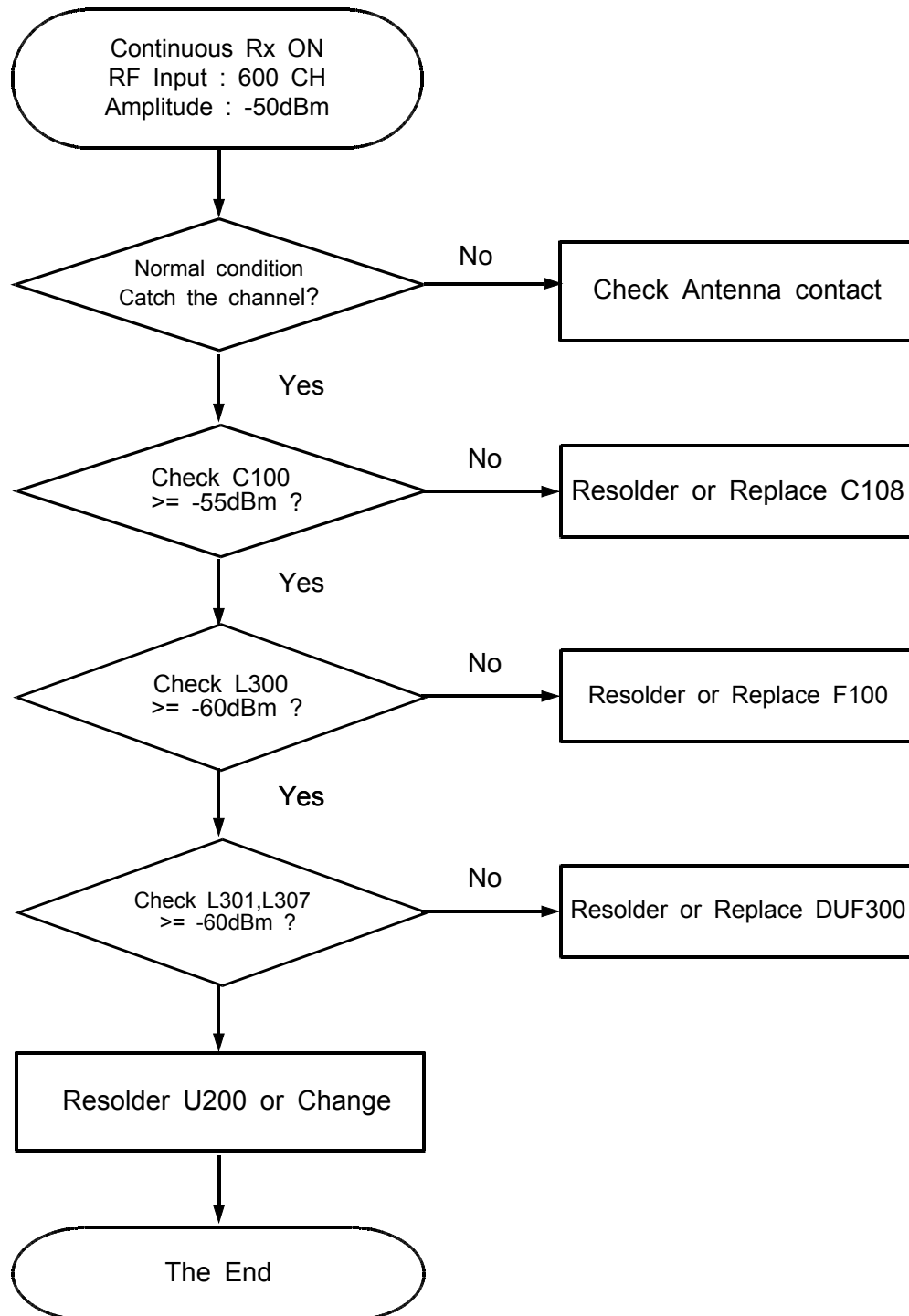


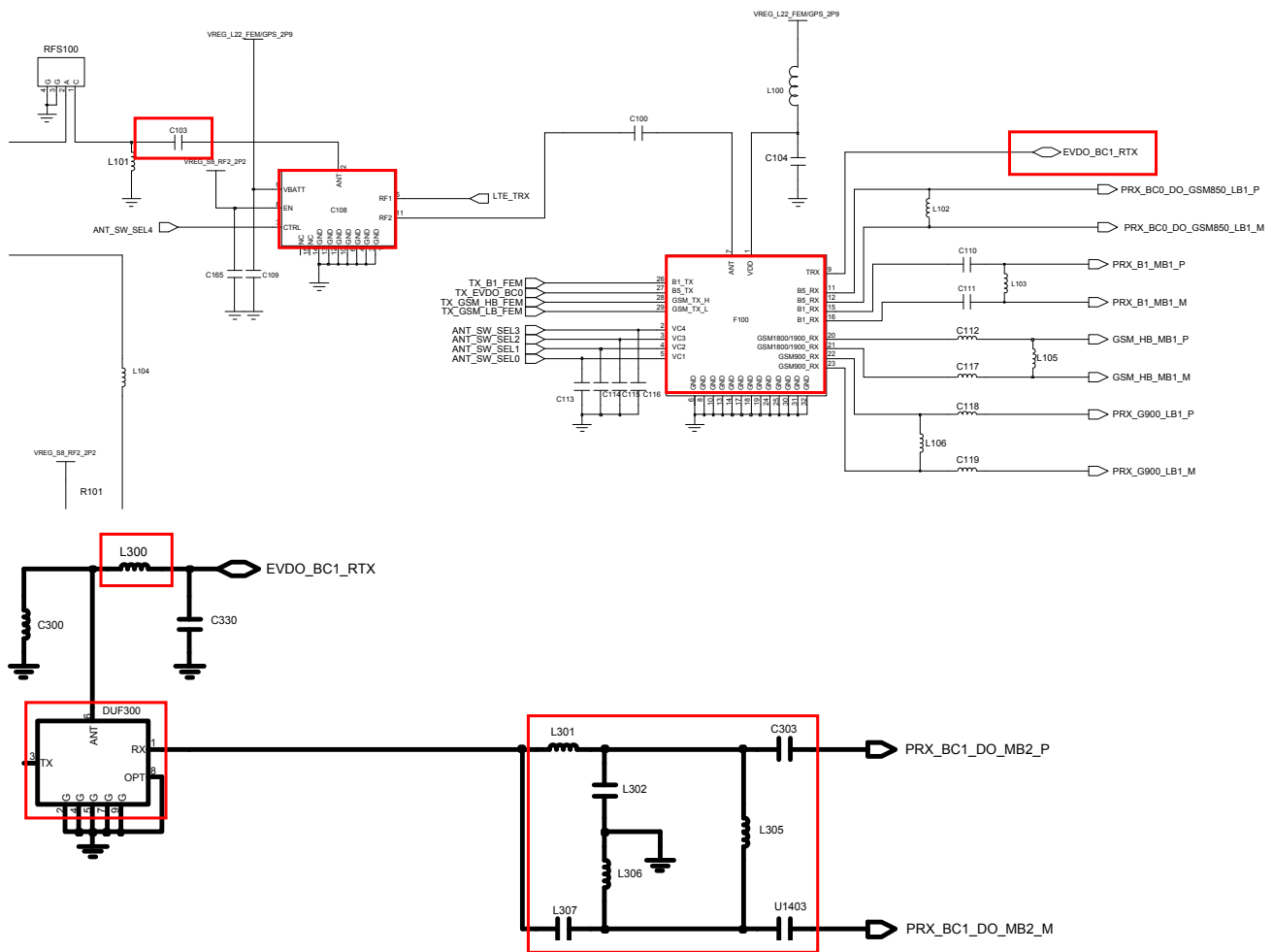


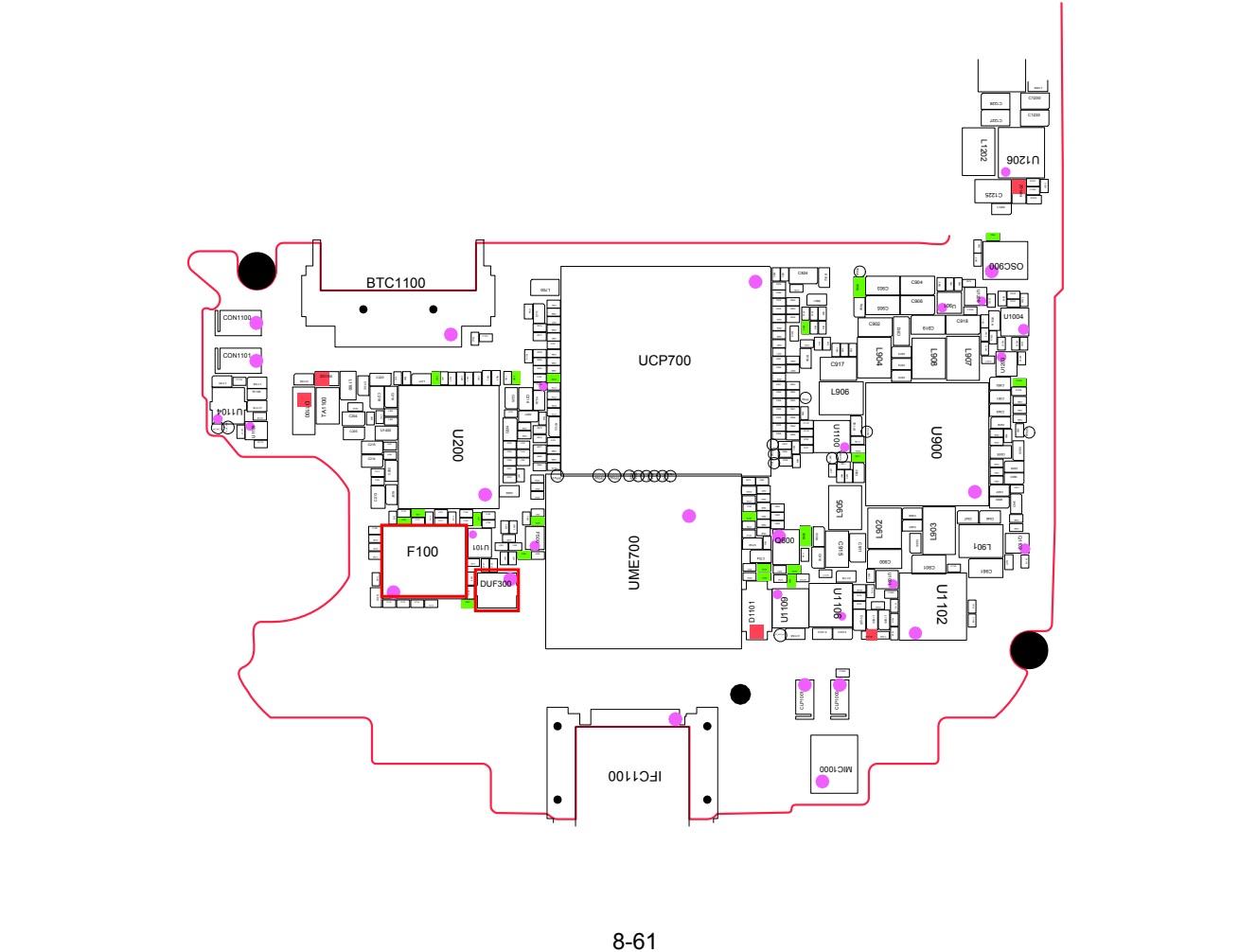


8-4-7. EVDO PCS RX

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

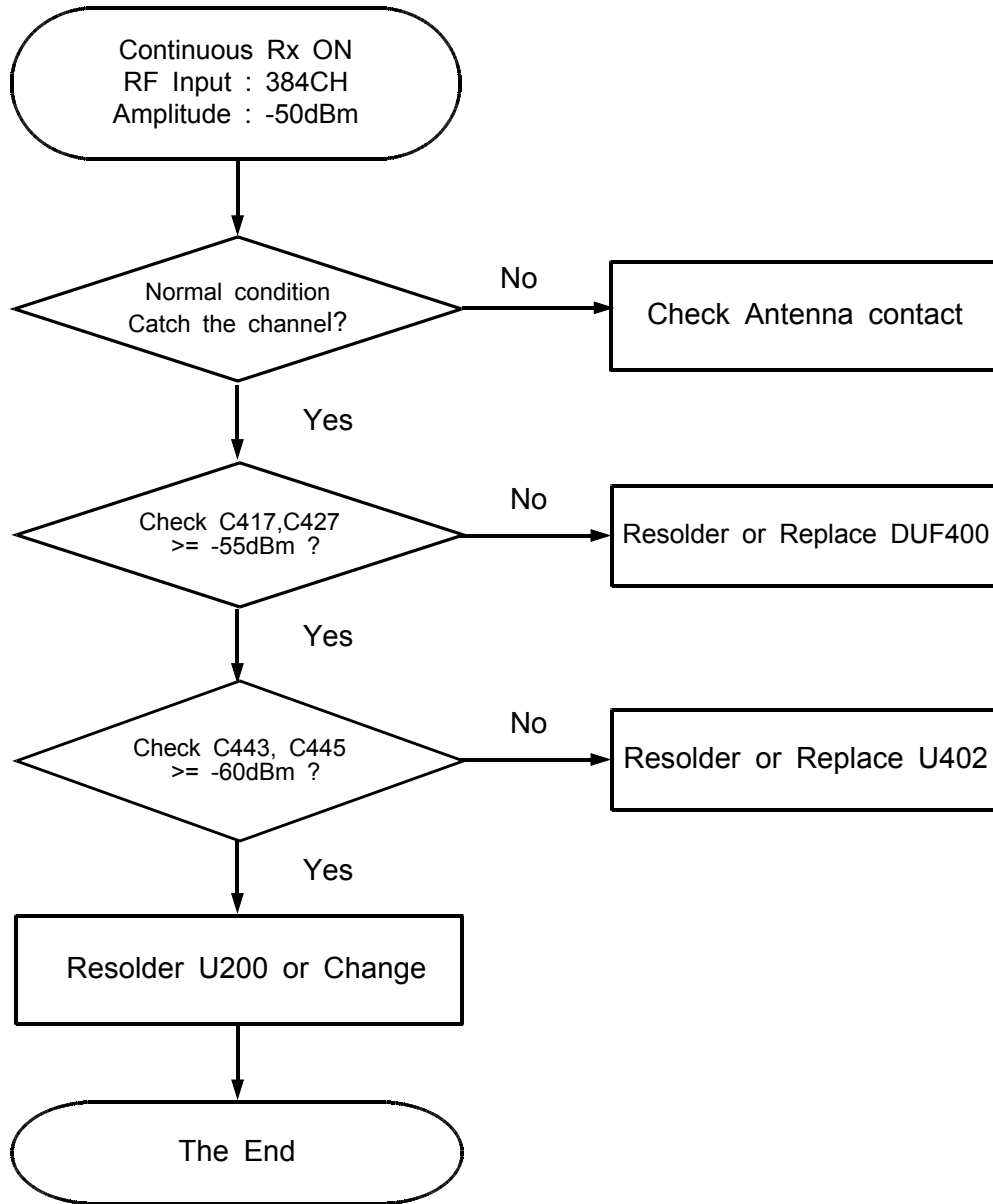






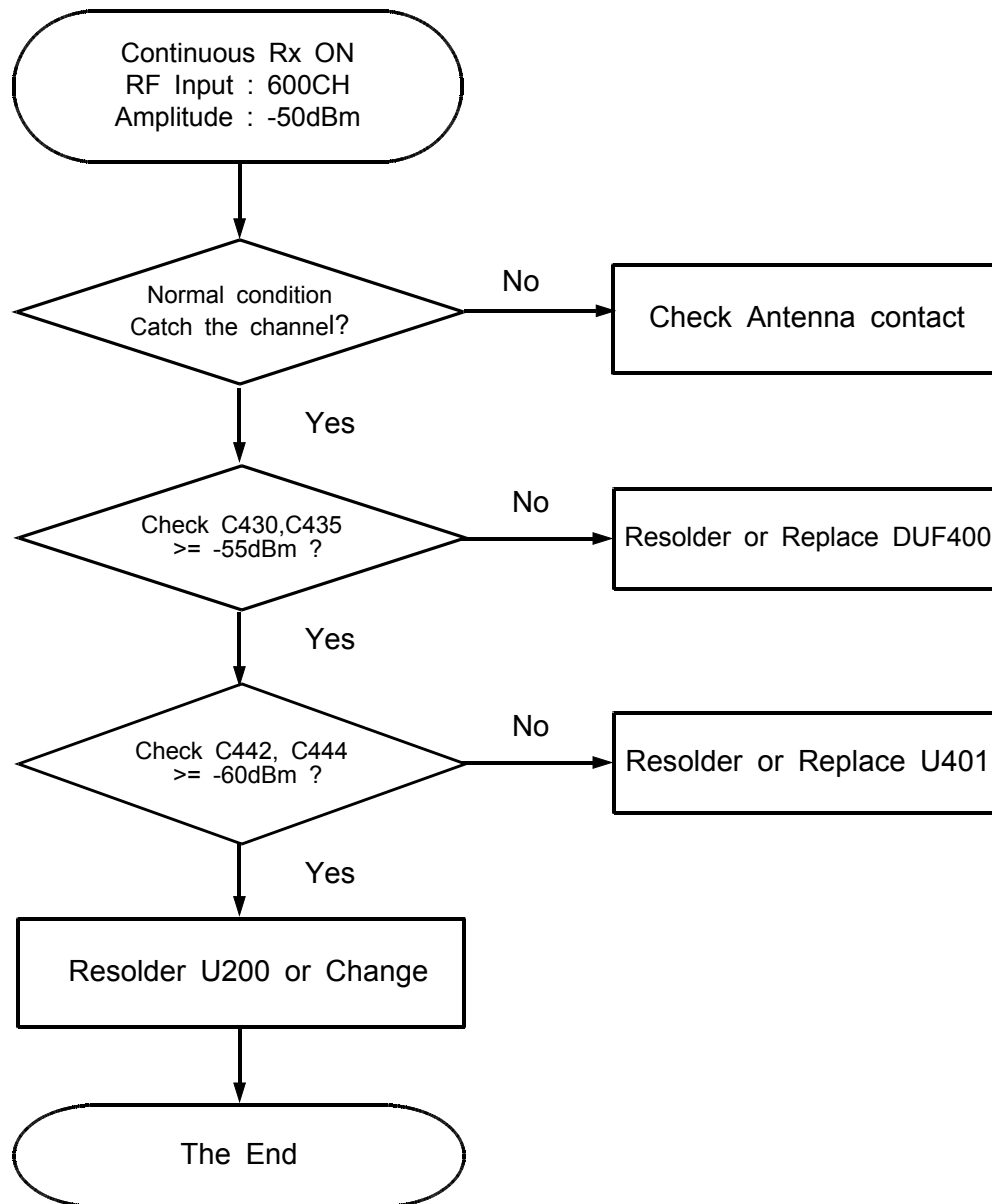
8-4-7. EVDO CDMA Div RX

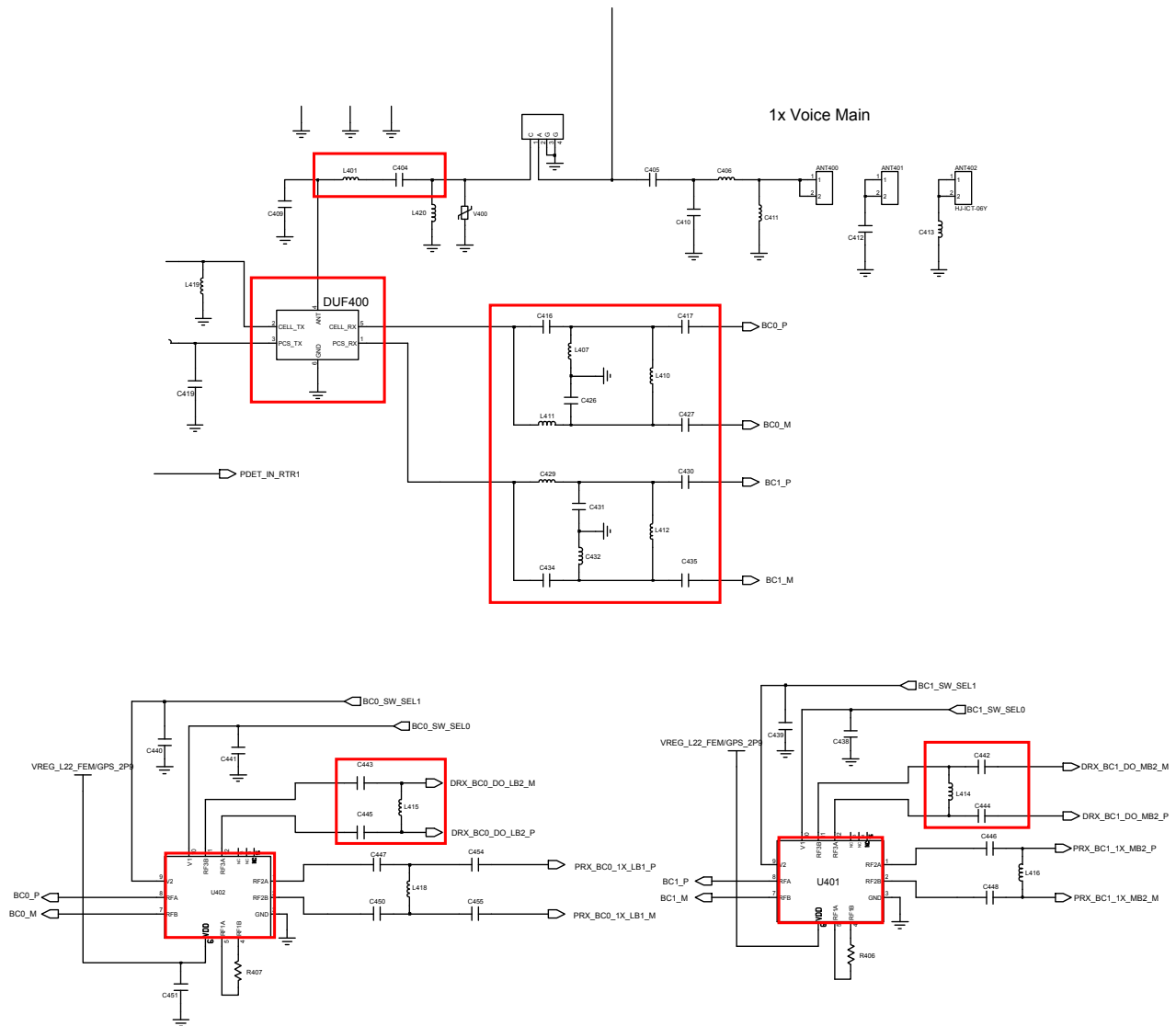
**If you check the Rx chain, Check the not only RF Device but also resistor, inductor and capacitor.

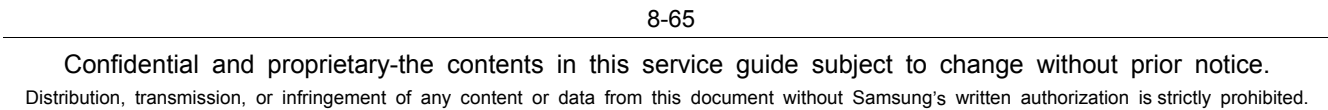


8-4-8. EVDO PCS Div RX

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

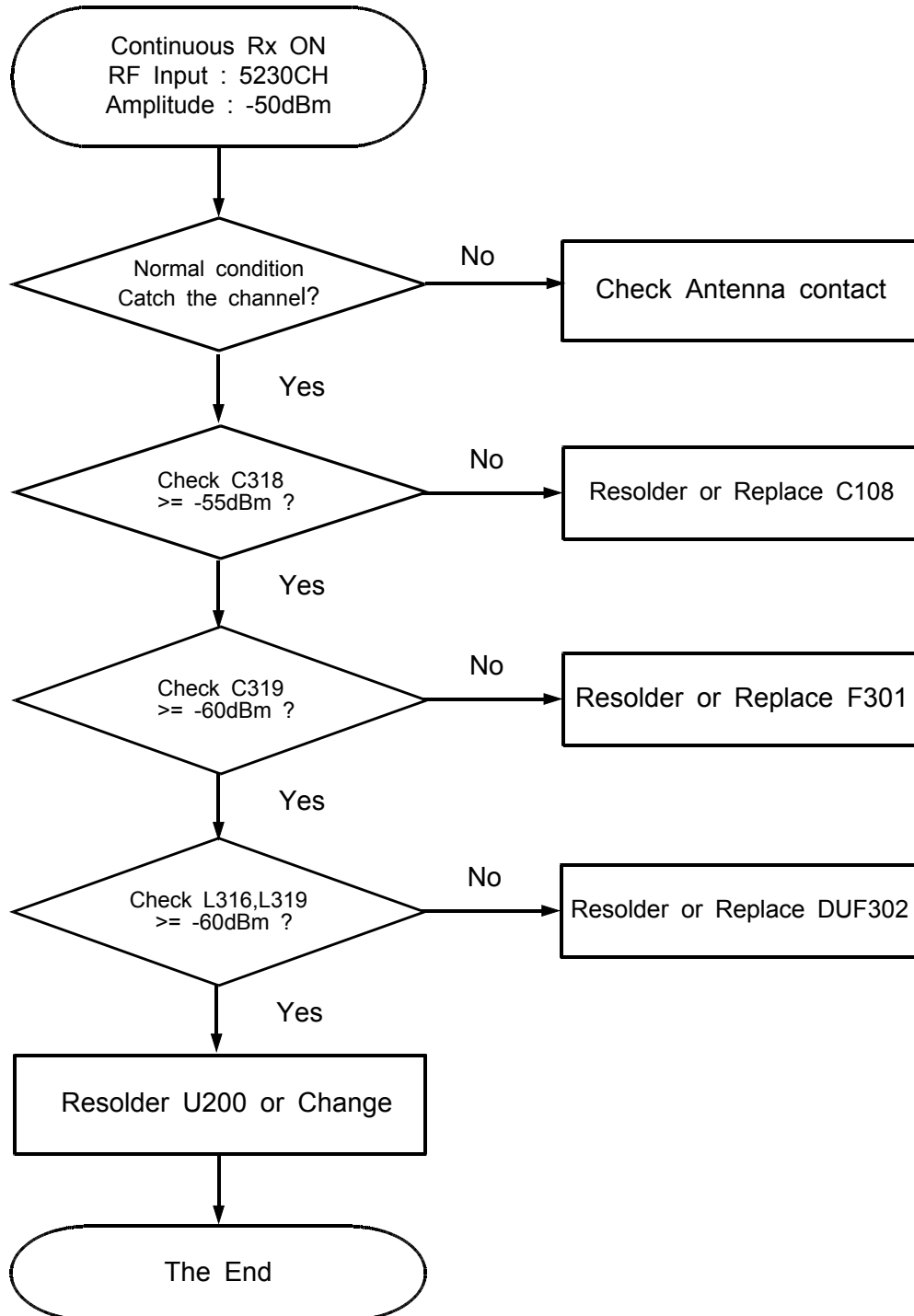


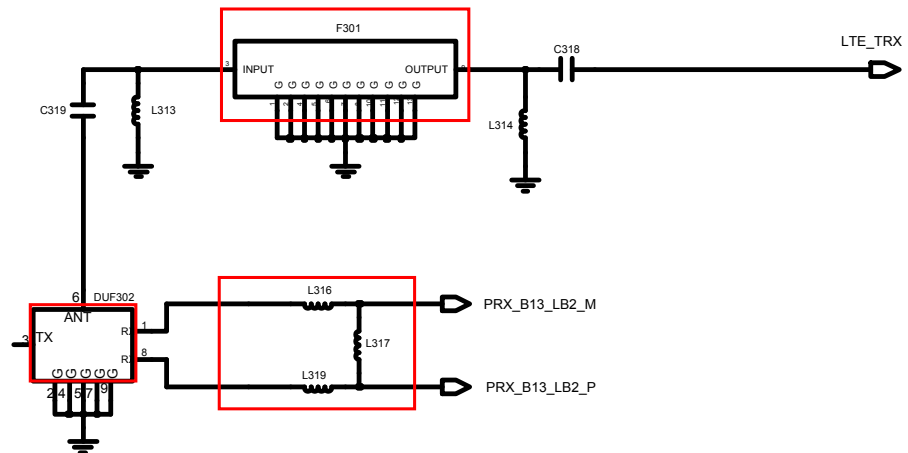
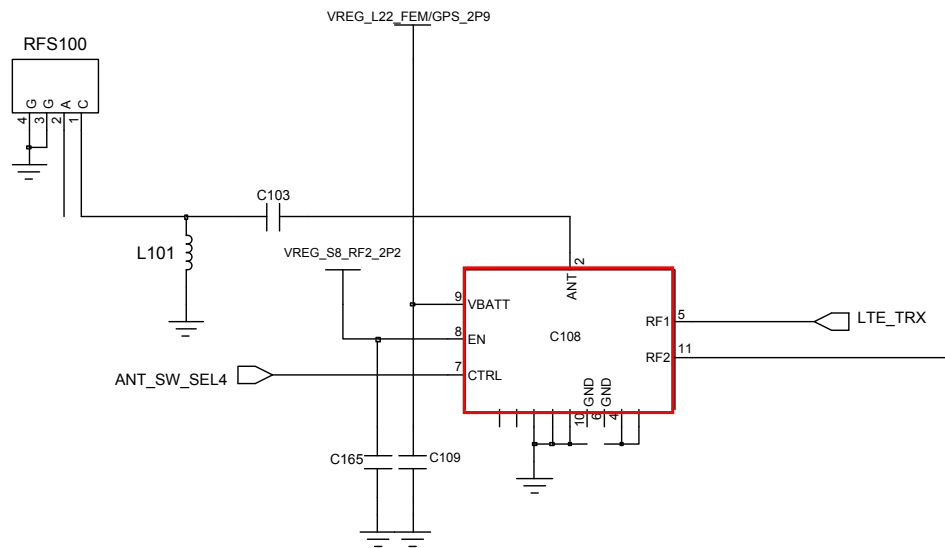




8-4-9. LTE B13 RX

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

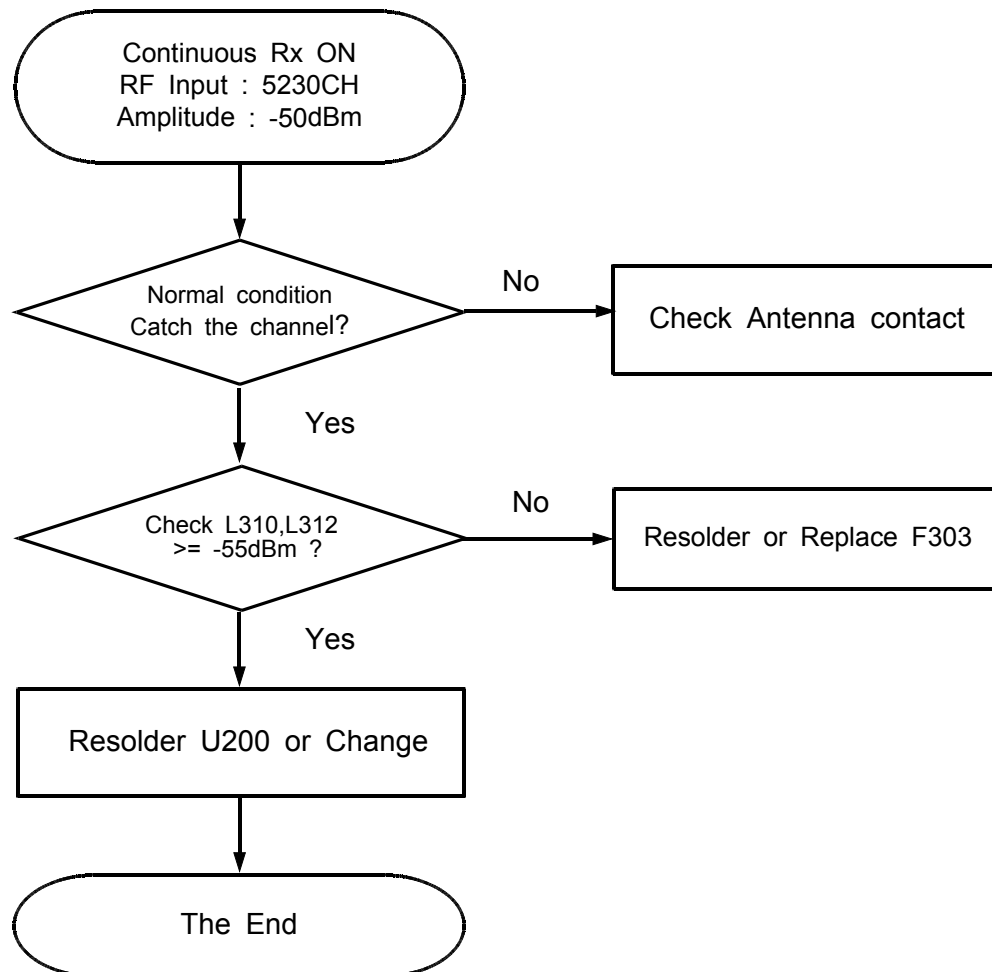


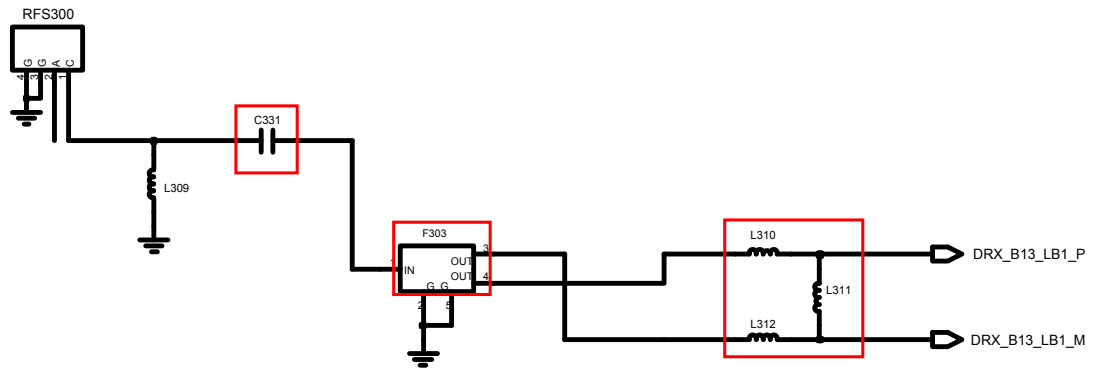




8-4-9. LTE B13 DRX

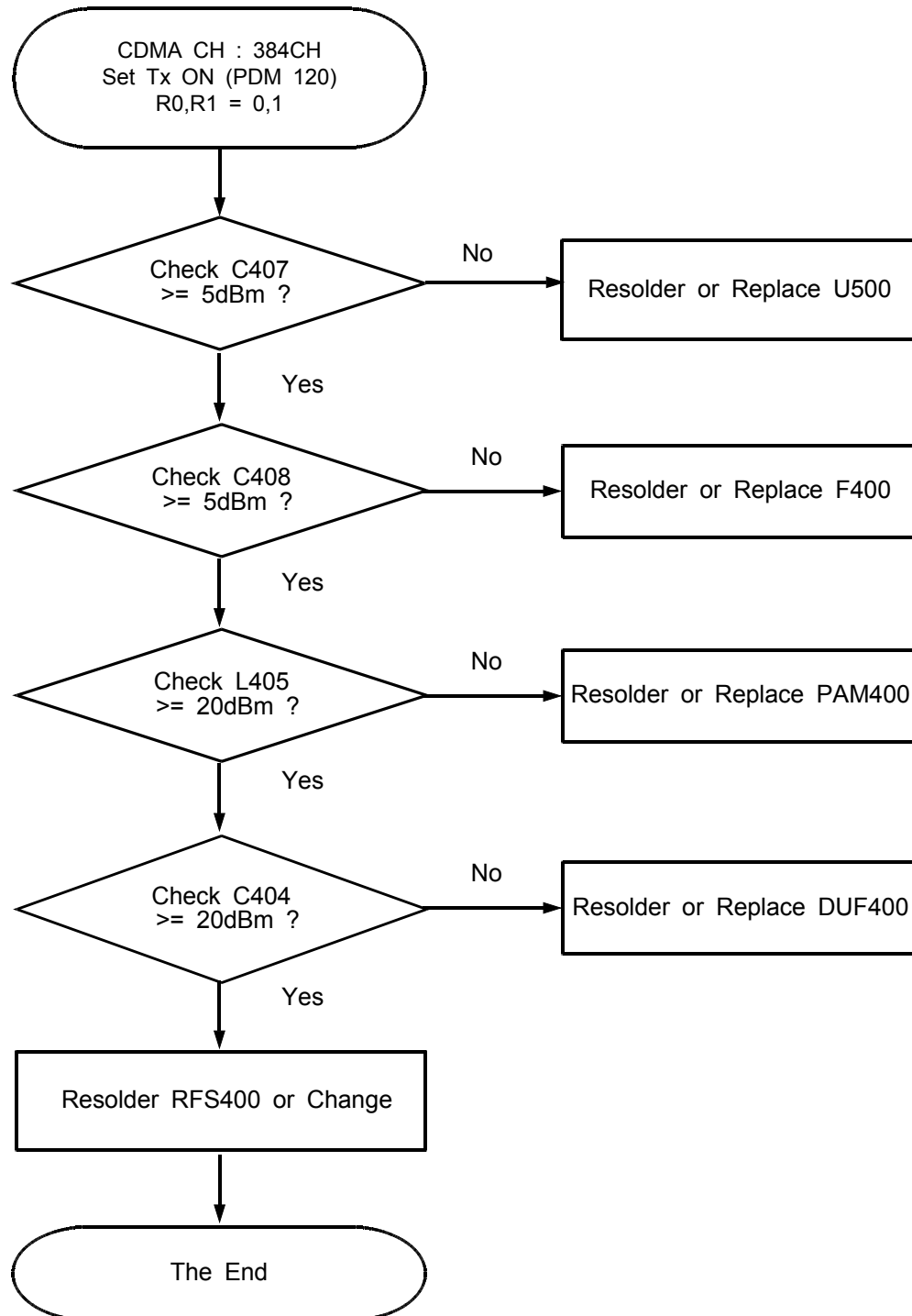
**If you check the Rx chain, Check the not only RF Device but also resistor, inductor and capacitor.





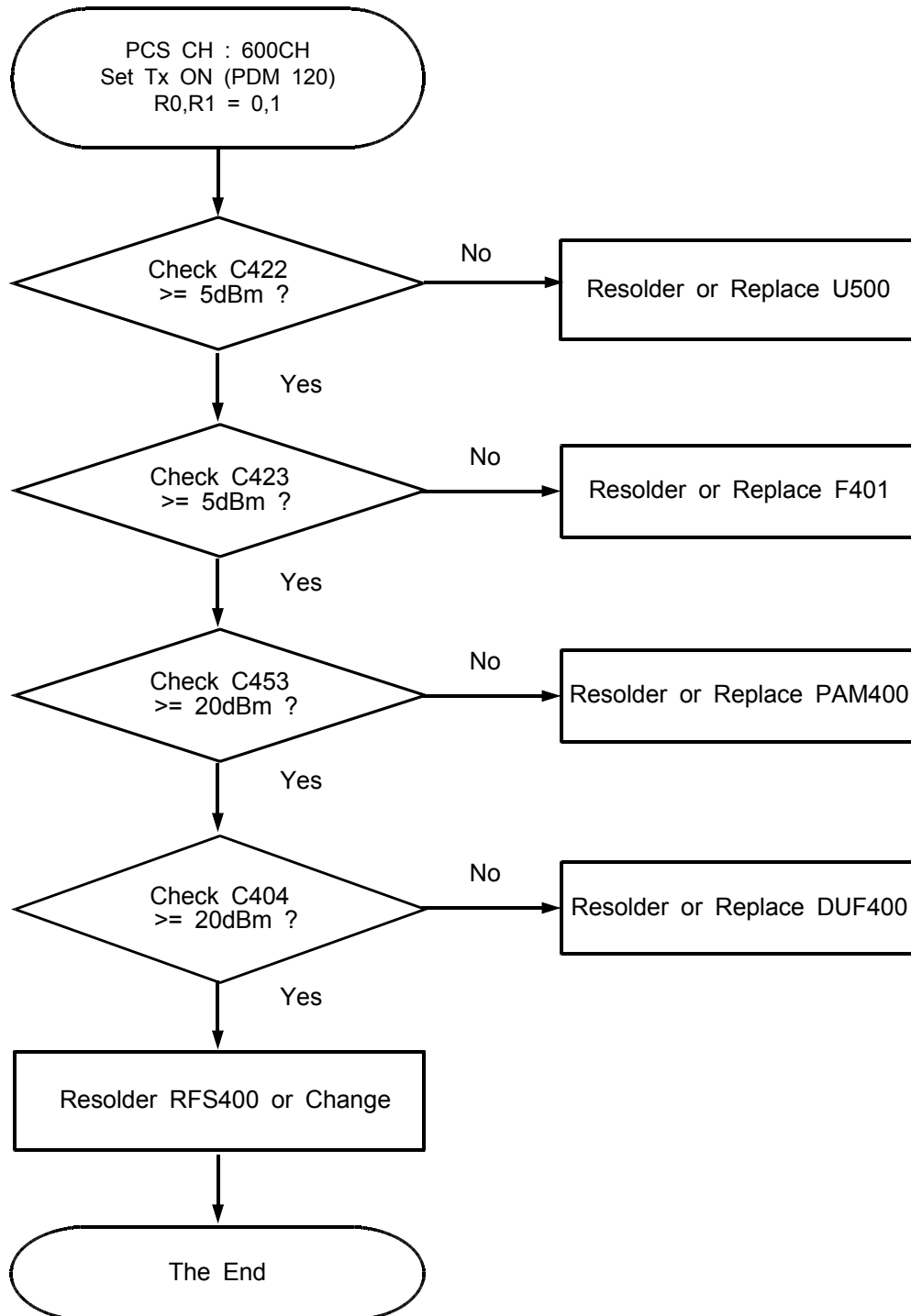
8-4-10. 1x CDMA TX

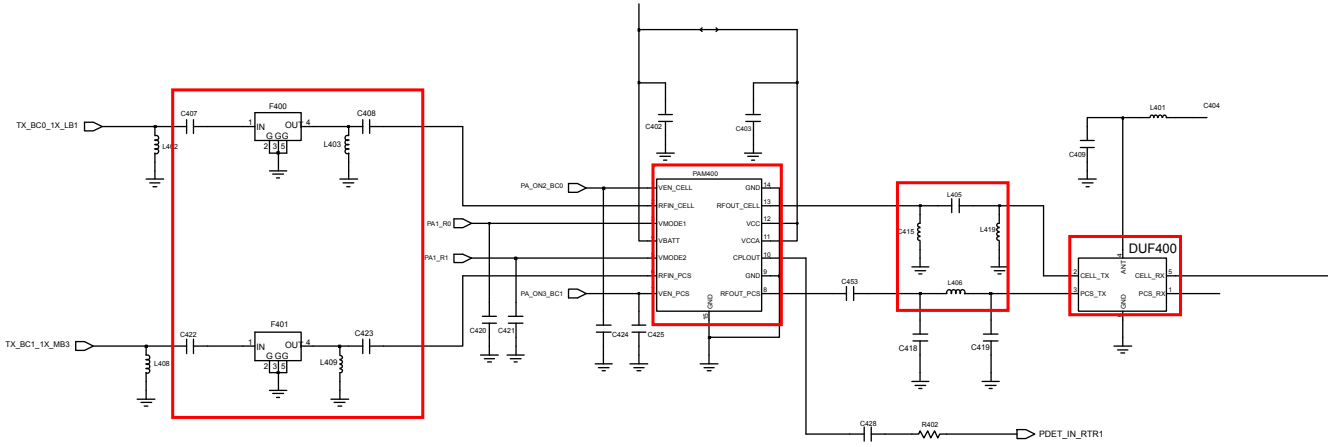
**If you check the tx chain, Check the not only RF Device but also resistor, inductor and capacitor.



8-4-11. 1x PCS TX

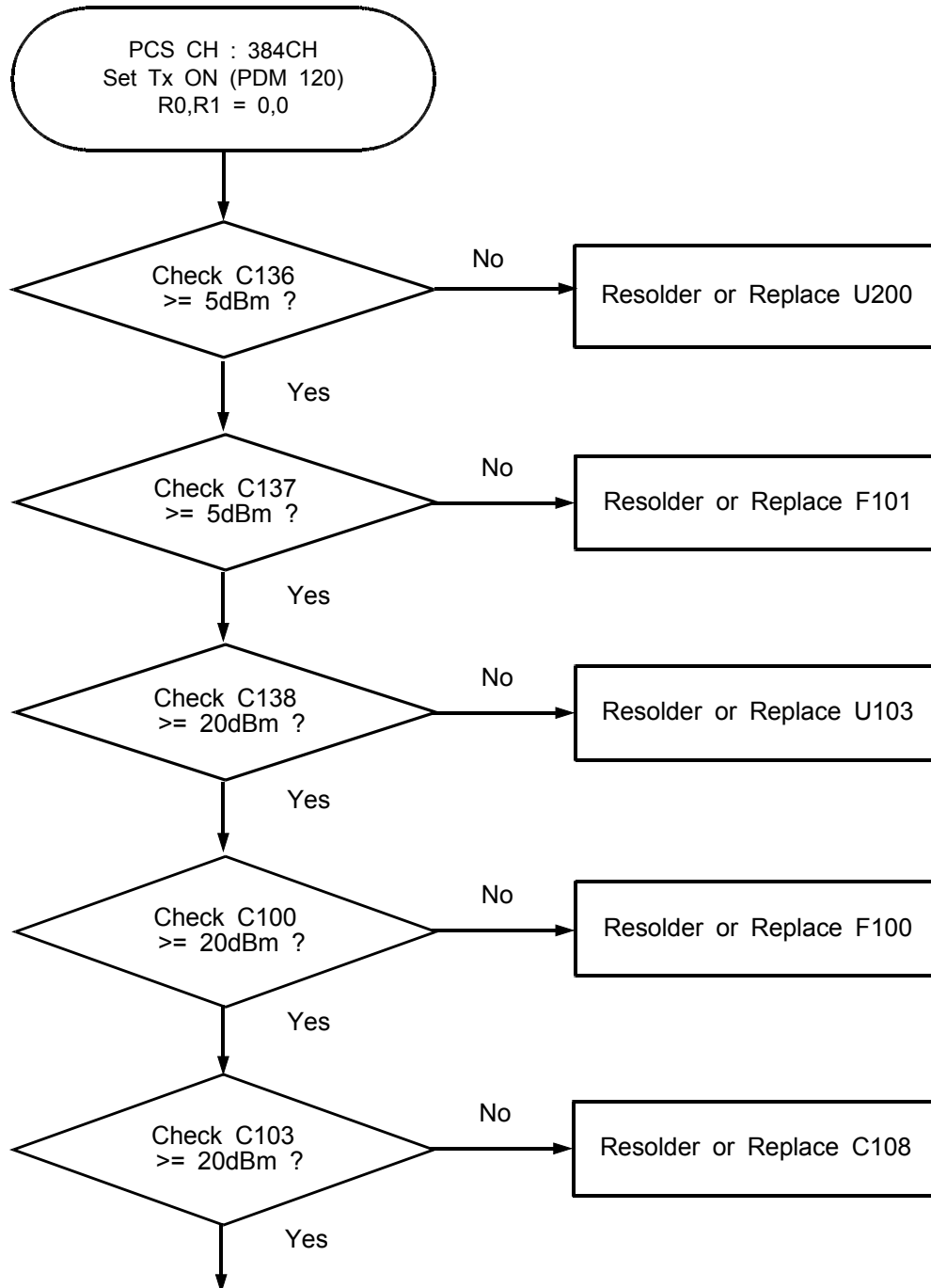
**If you check the tx chain, Check the not only RF Device but also resistor, inductor and capacitor.

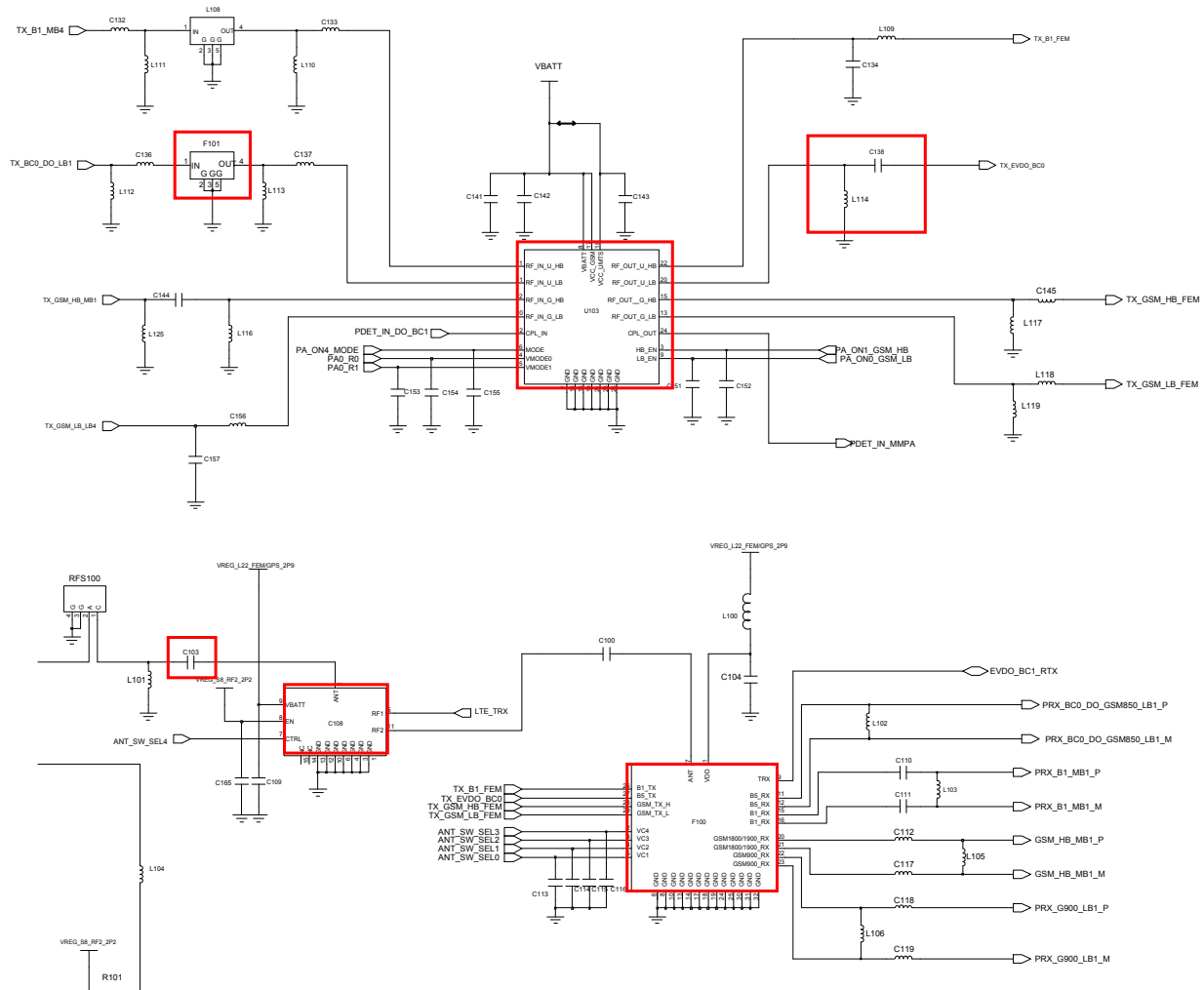
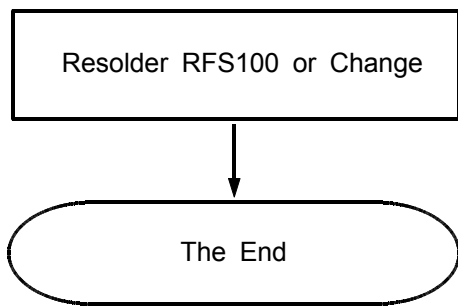


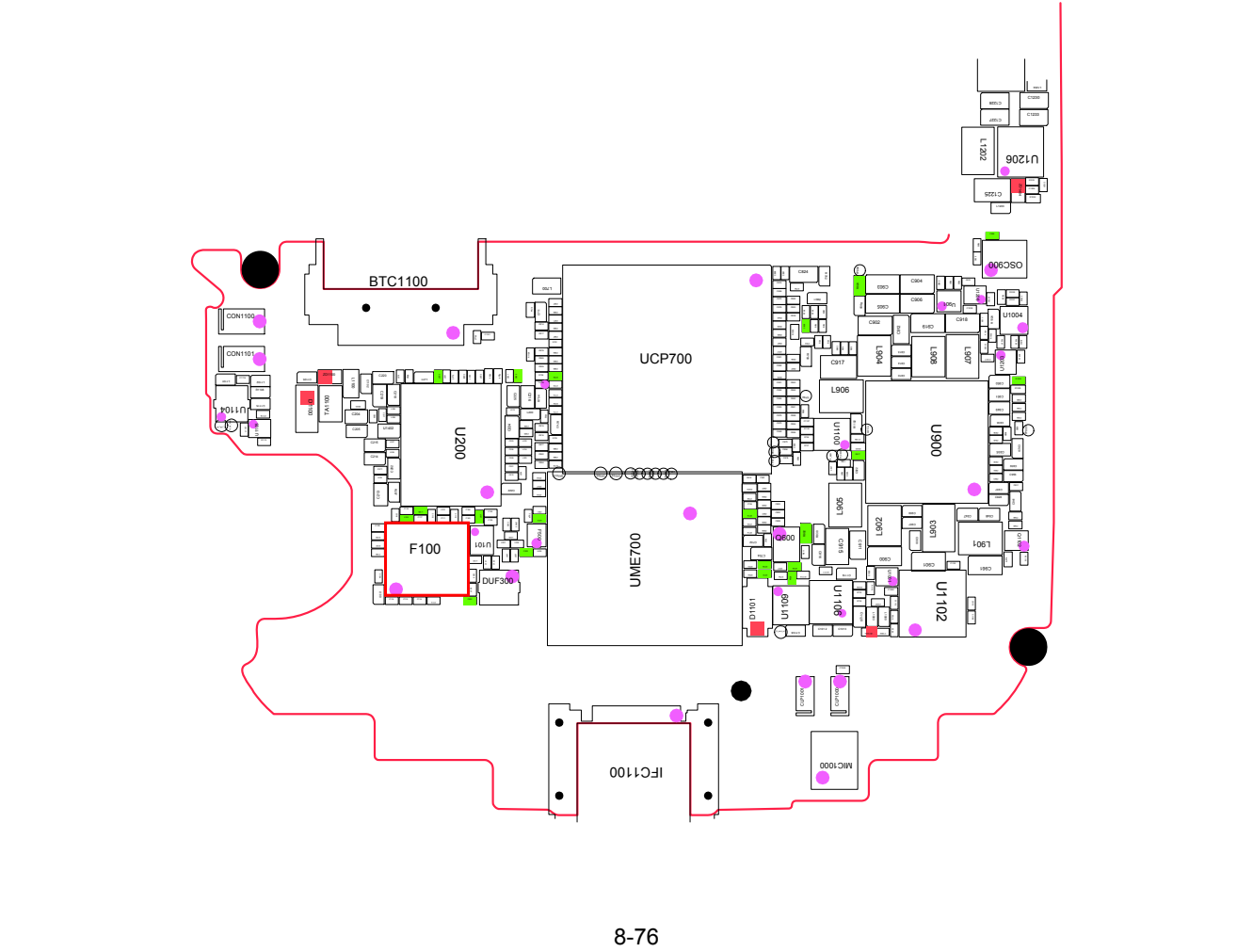


8-4-12. EVDO CDMA Tx

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

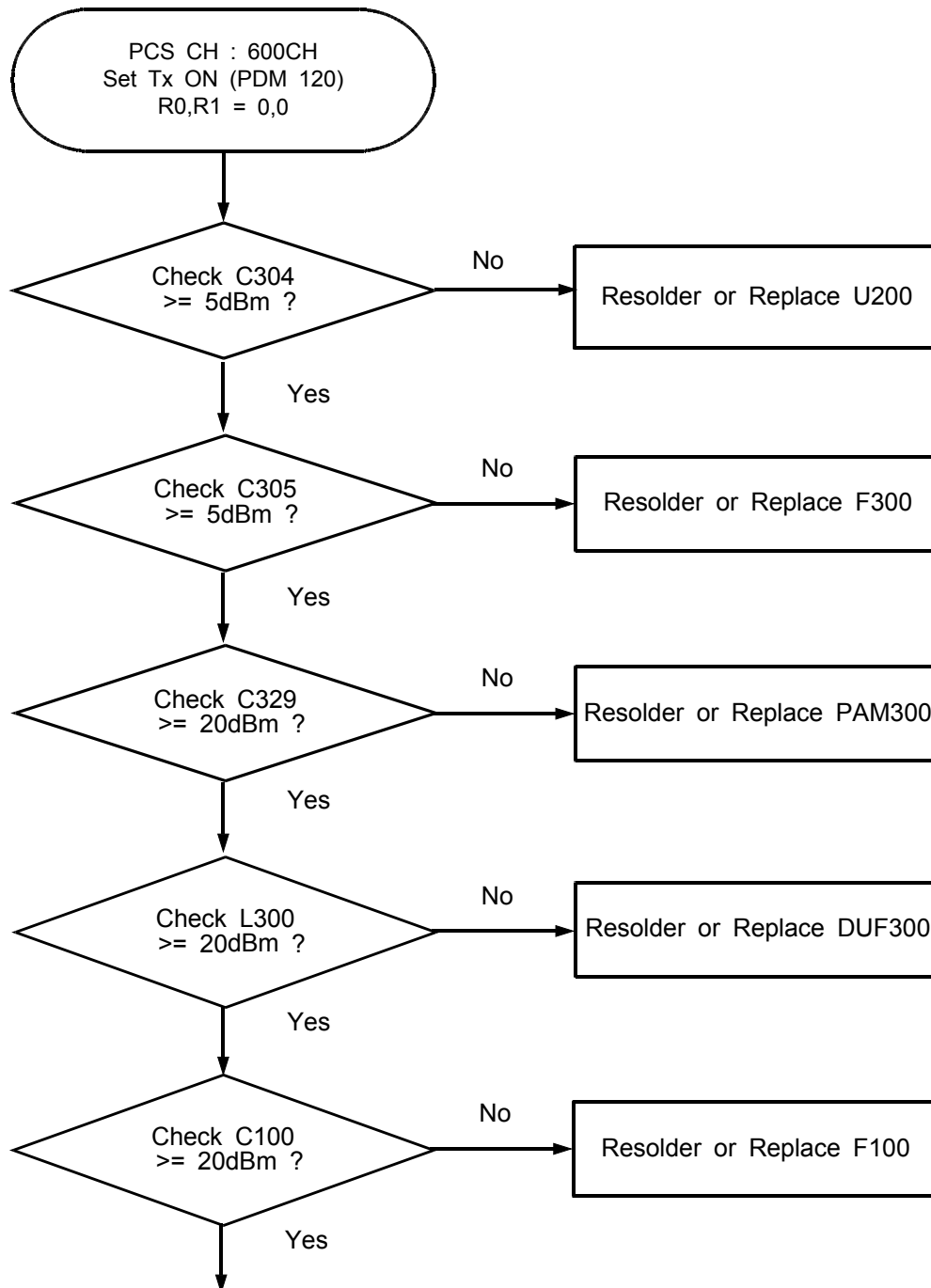


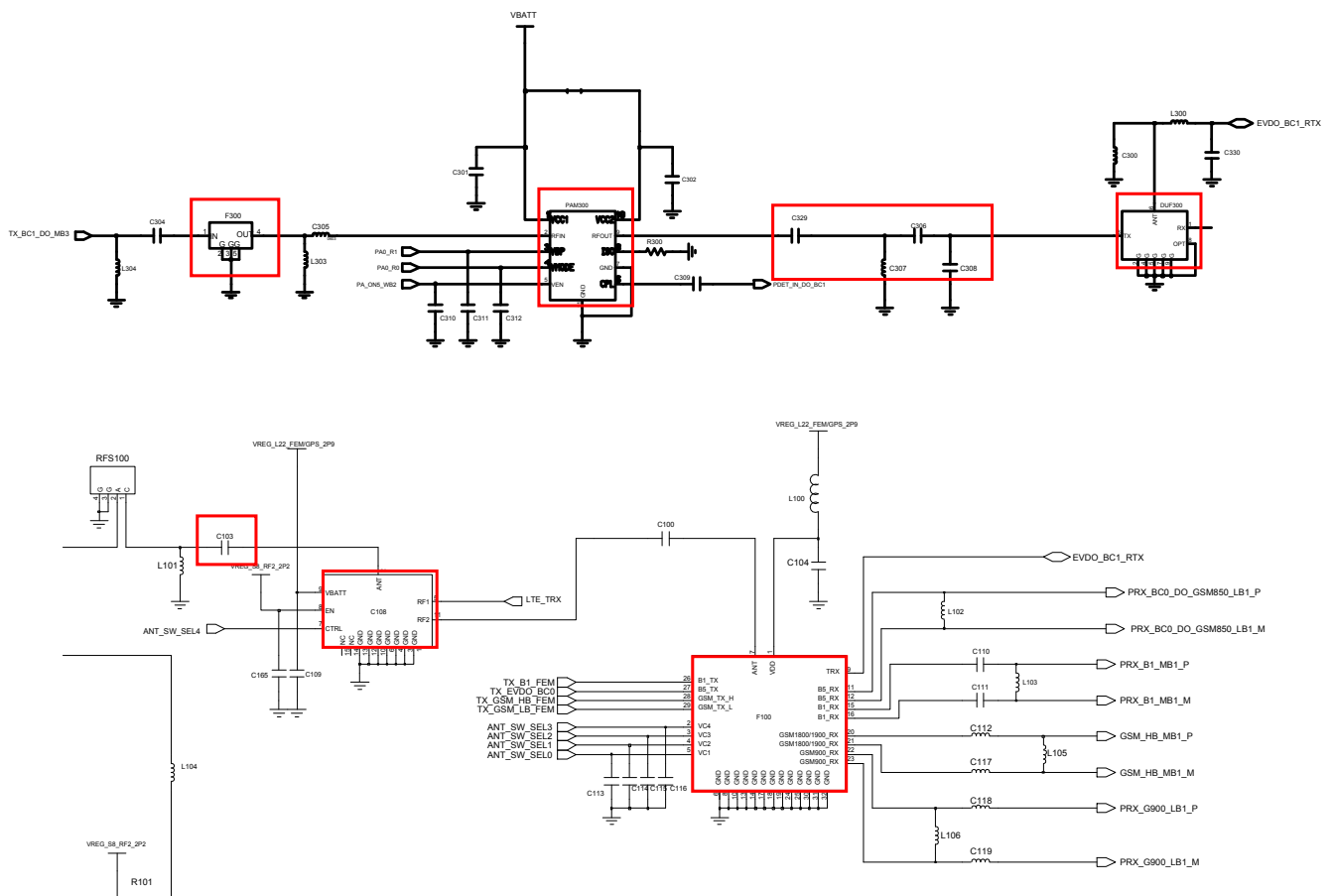
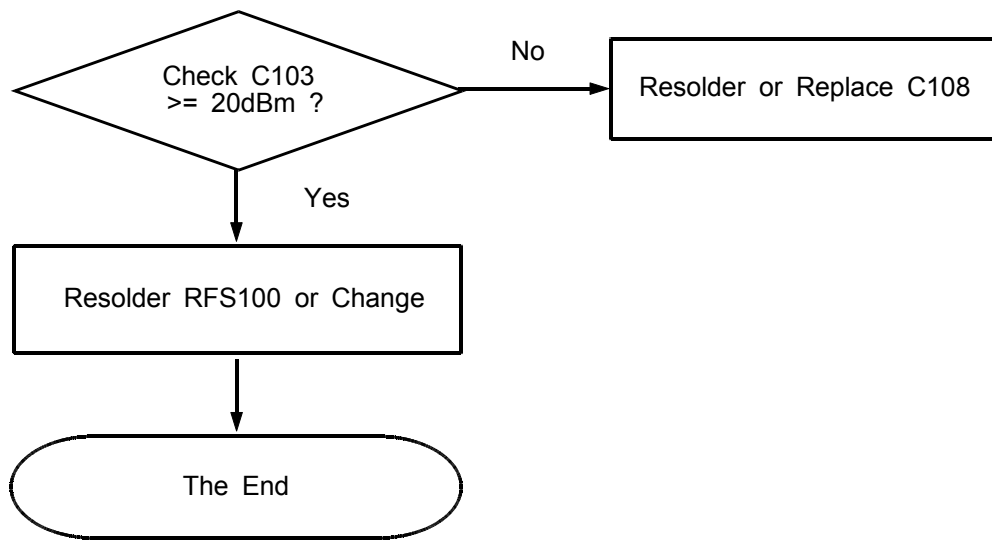


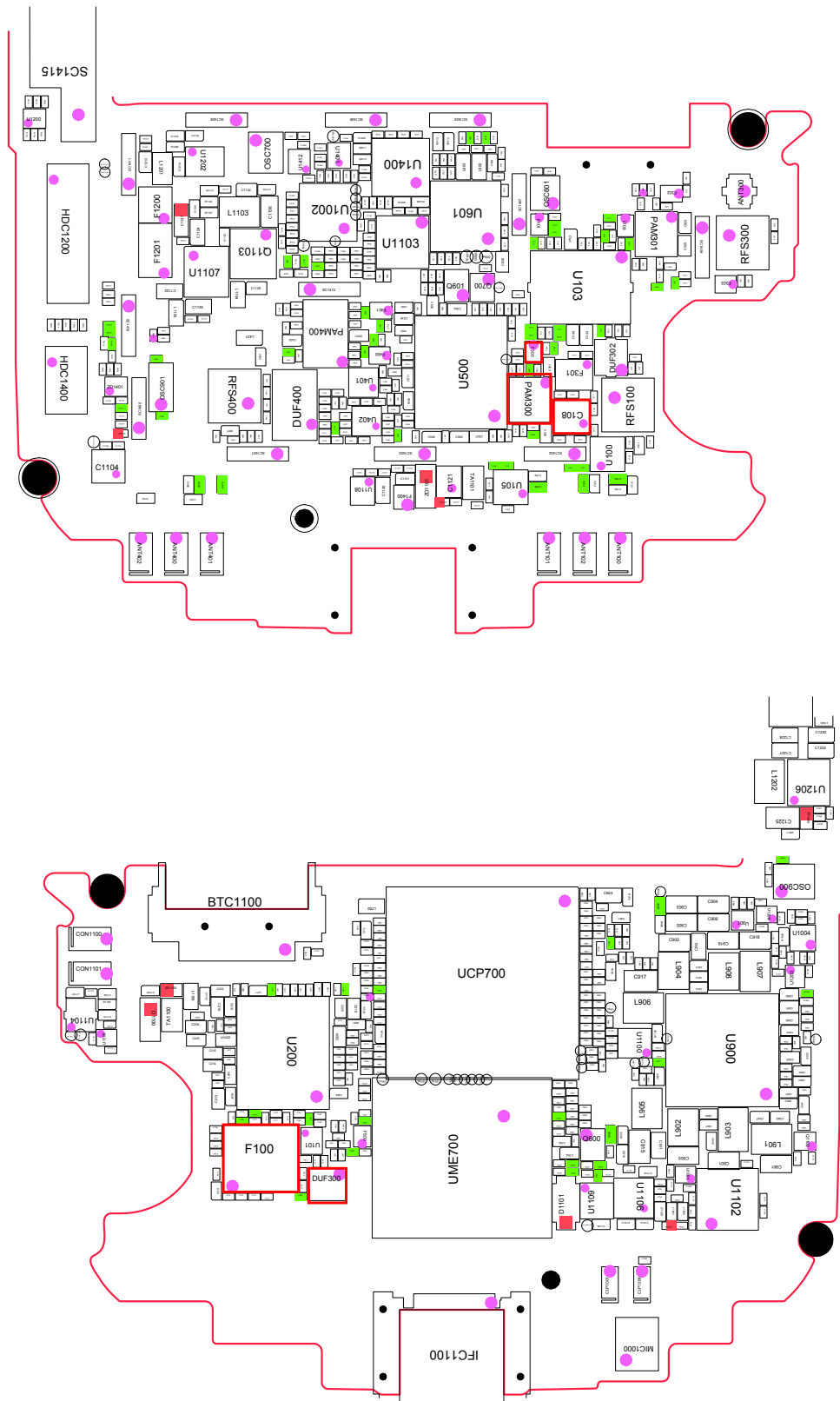


8-4-13. EVDO PCS Tx

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

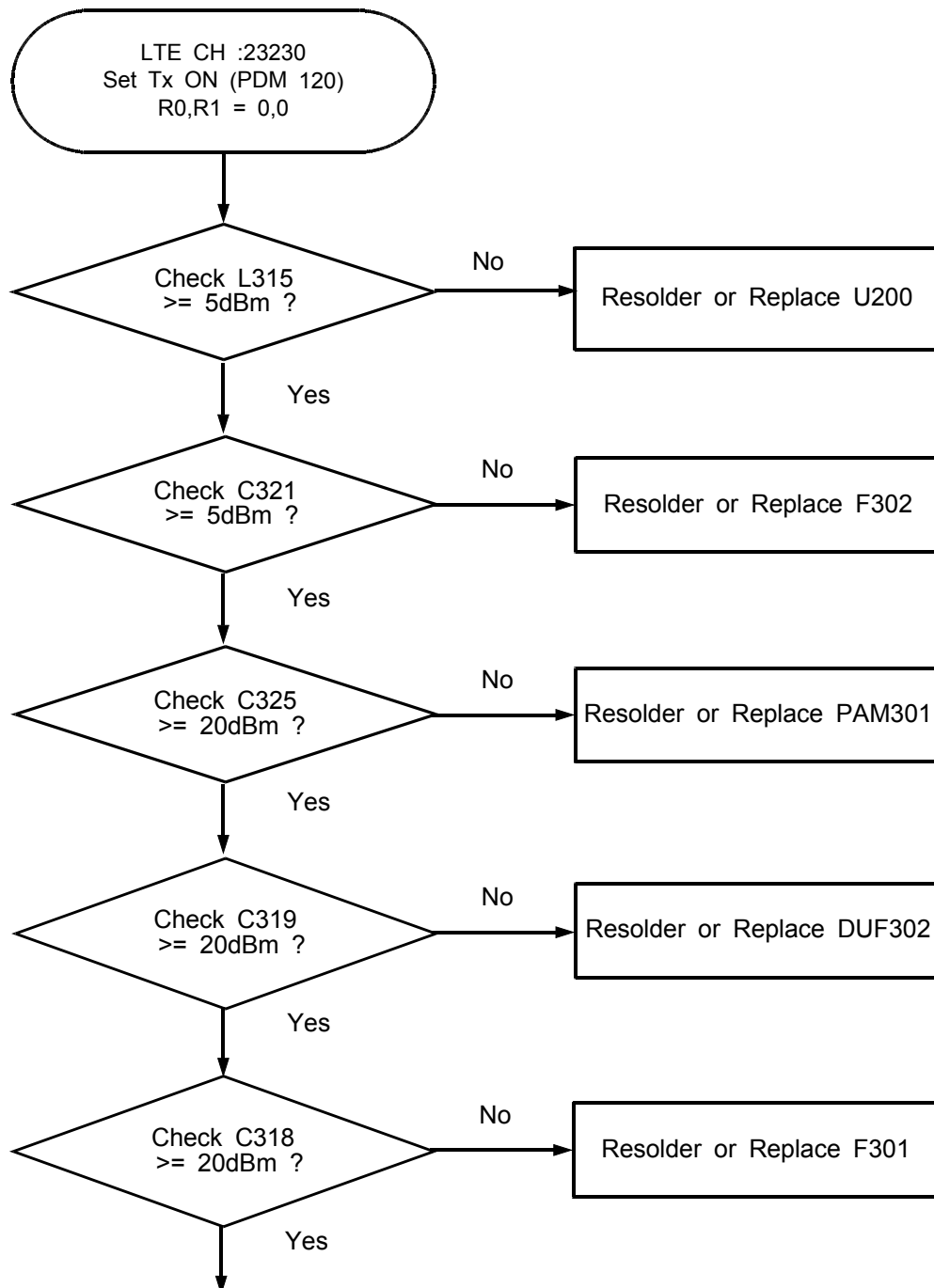


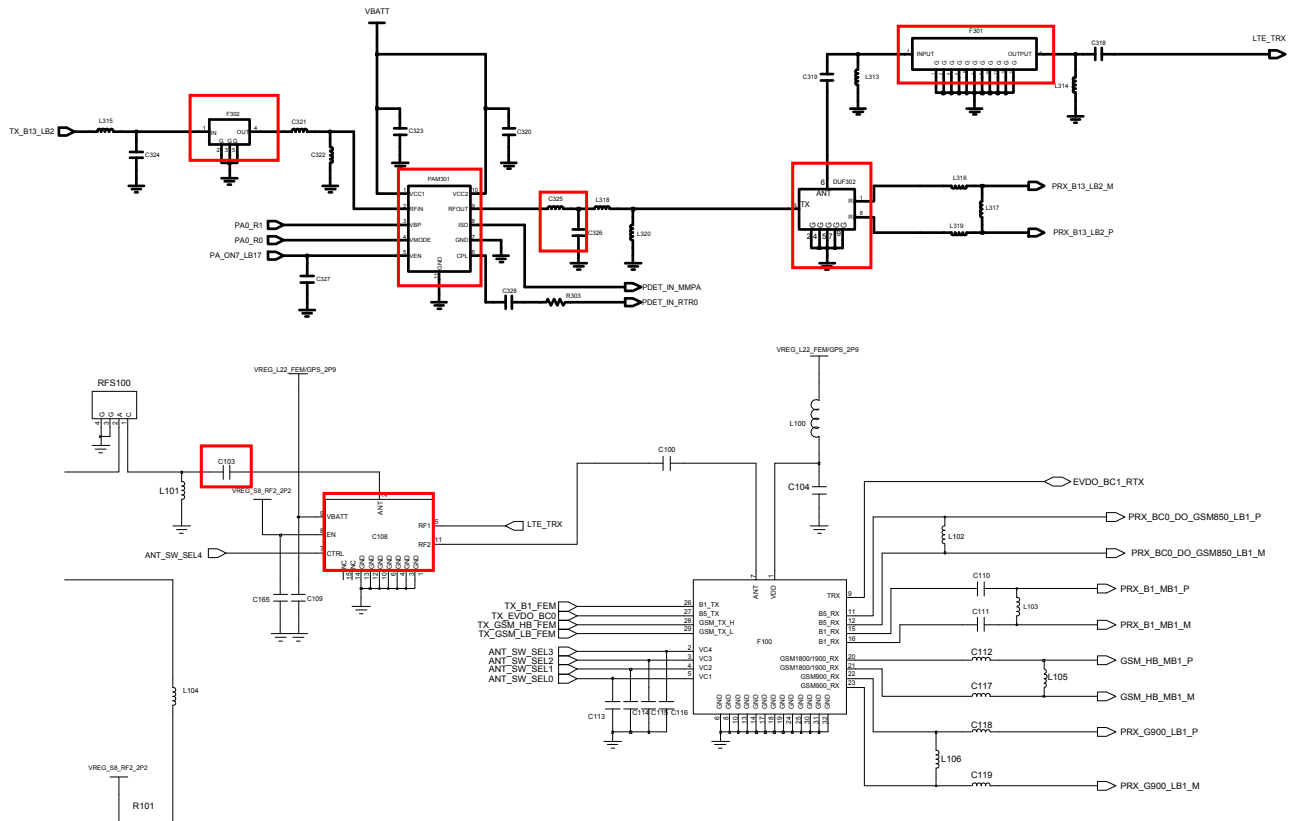




8-4-14. LTE B13 Tx

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

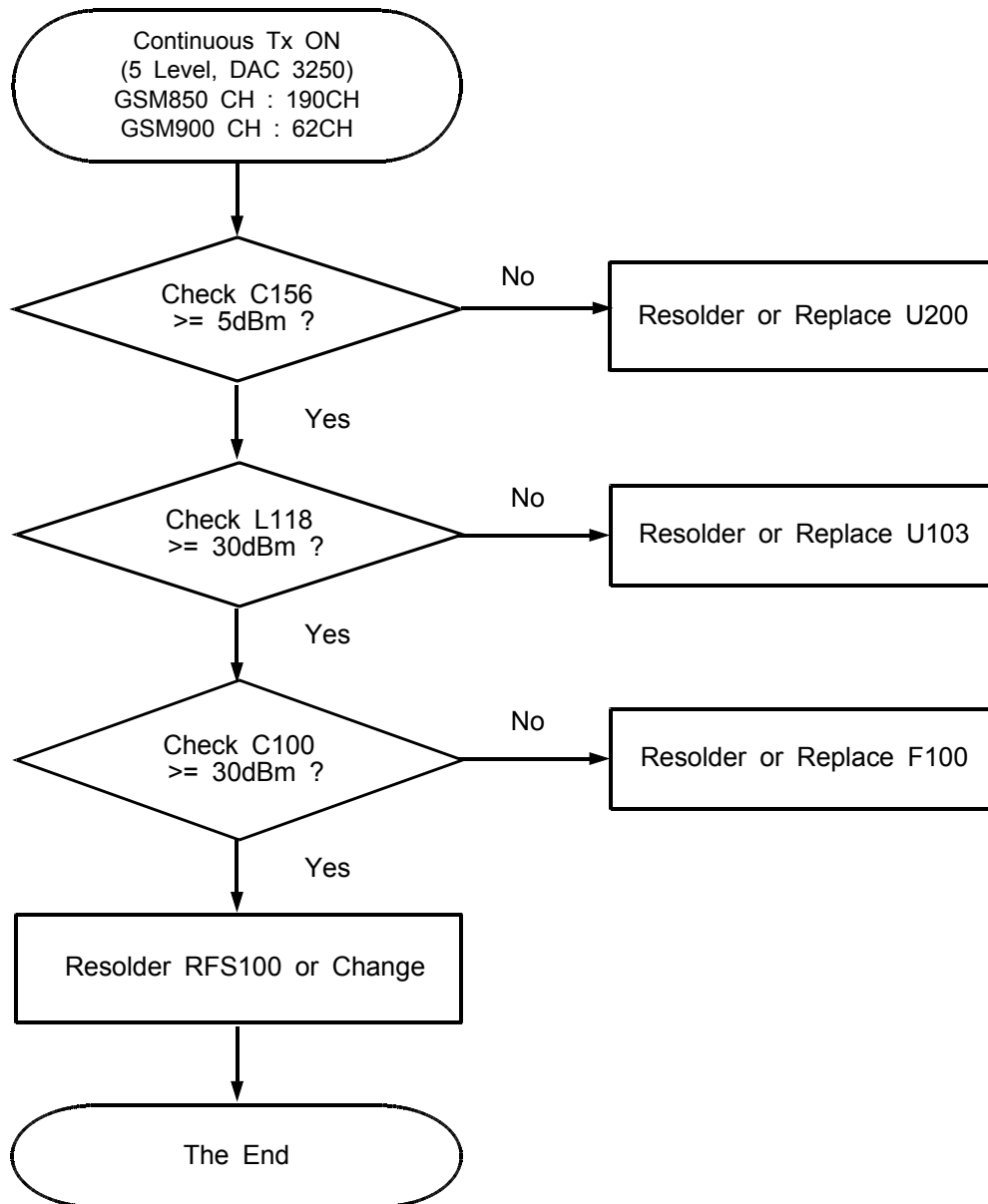






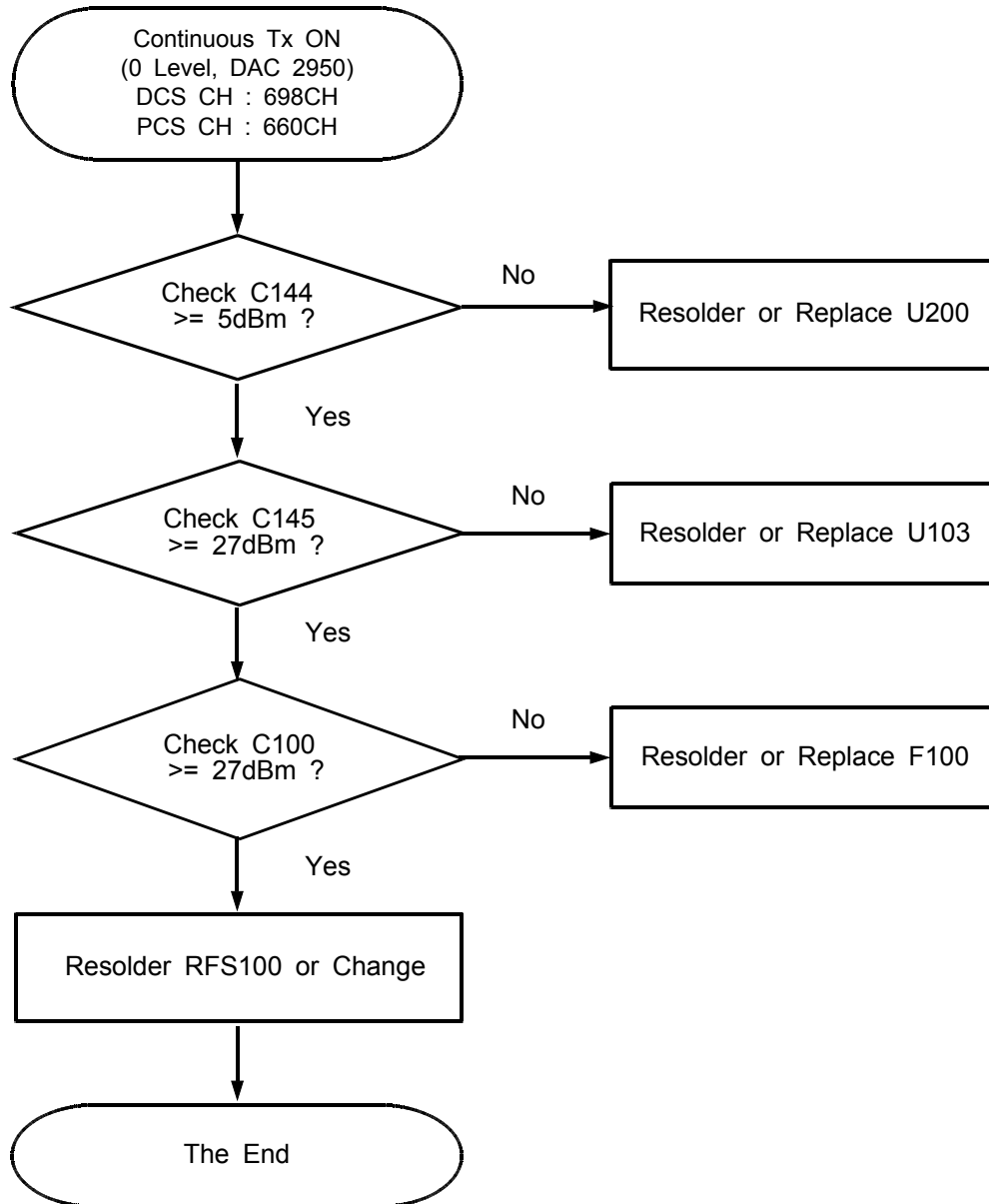
8-4-15. GSM850/900 TX

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



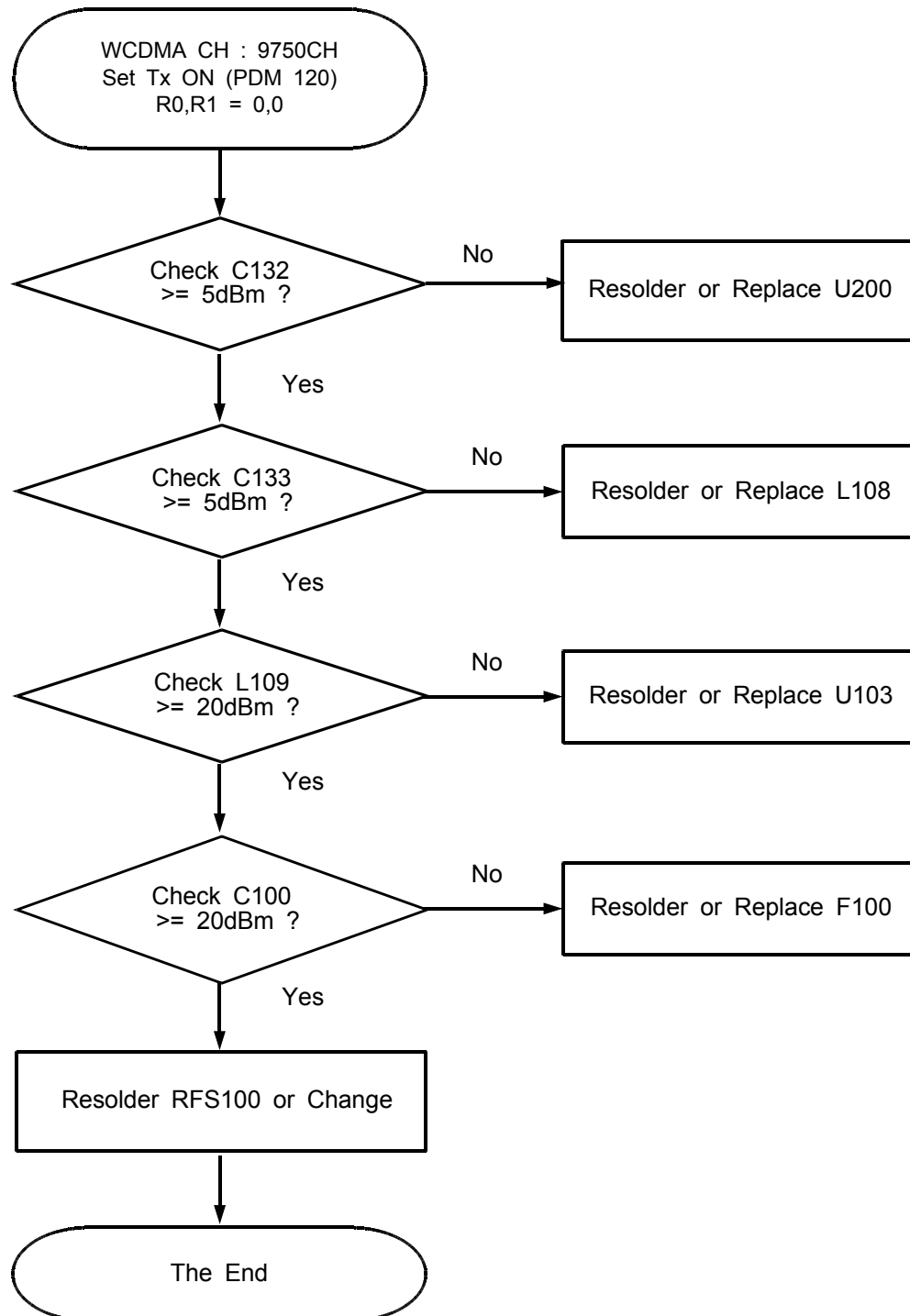
8-4-16. DCS/PCS TX

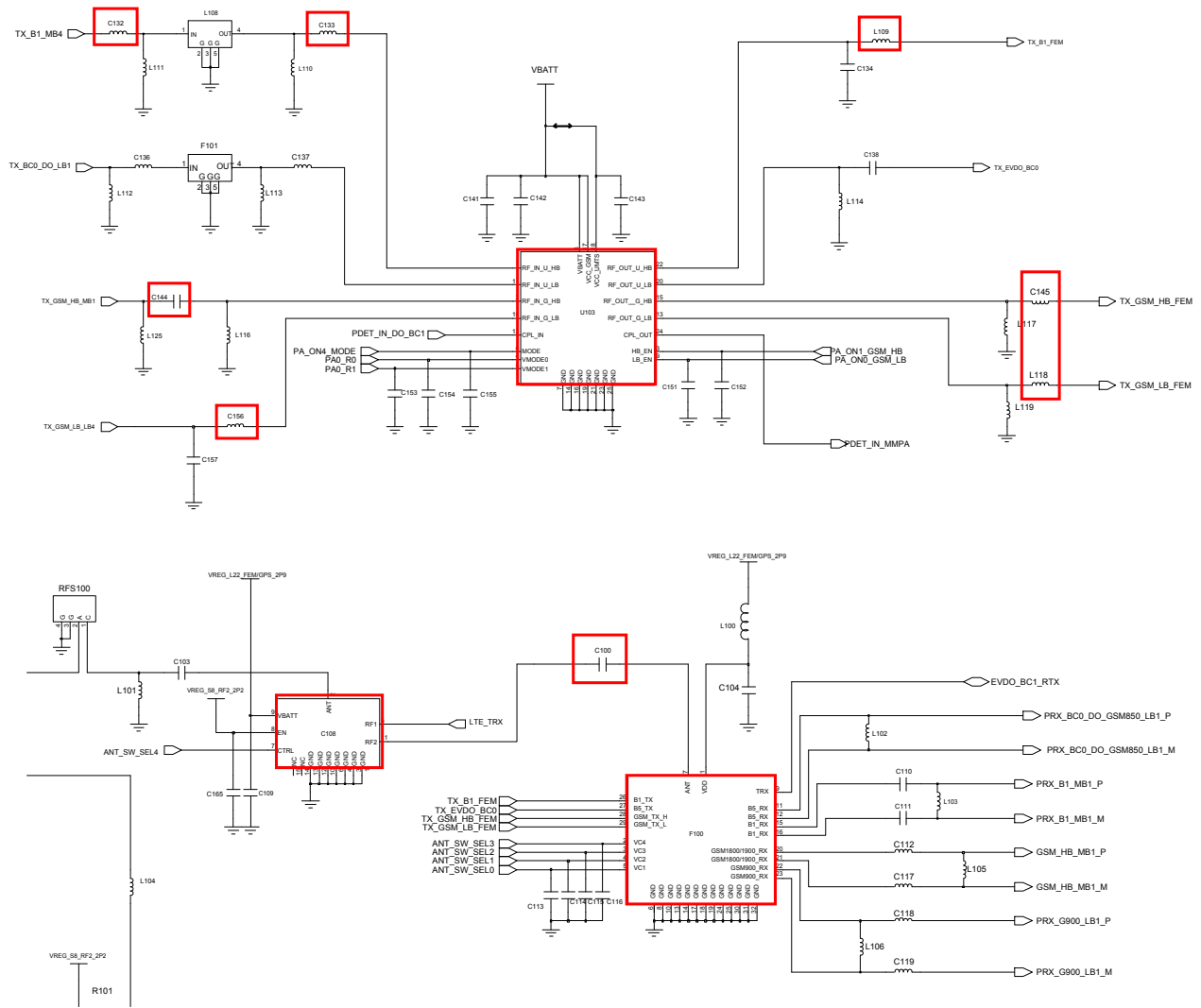
**If you check the tx chain, Check the not only RF Device but also resistor, inductor and capacitor.

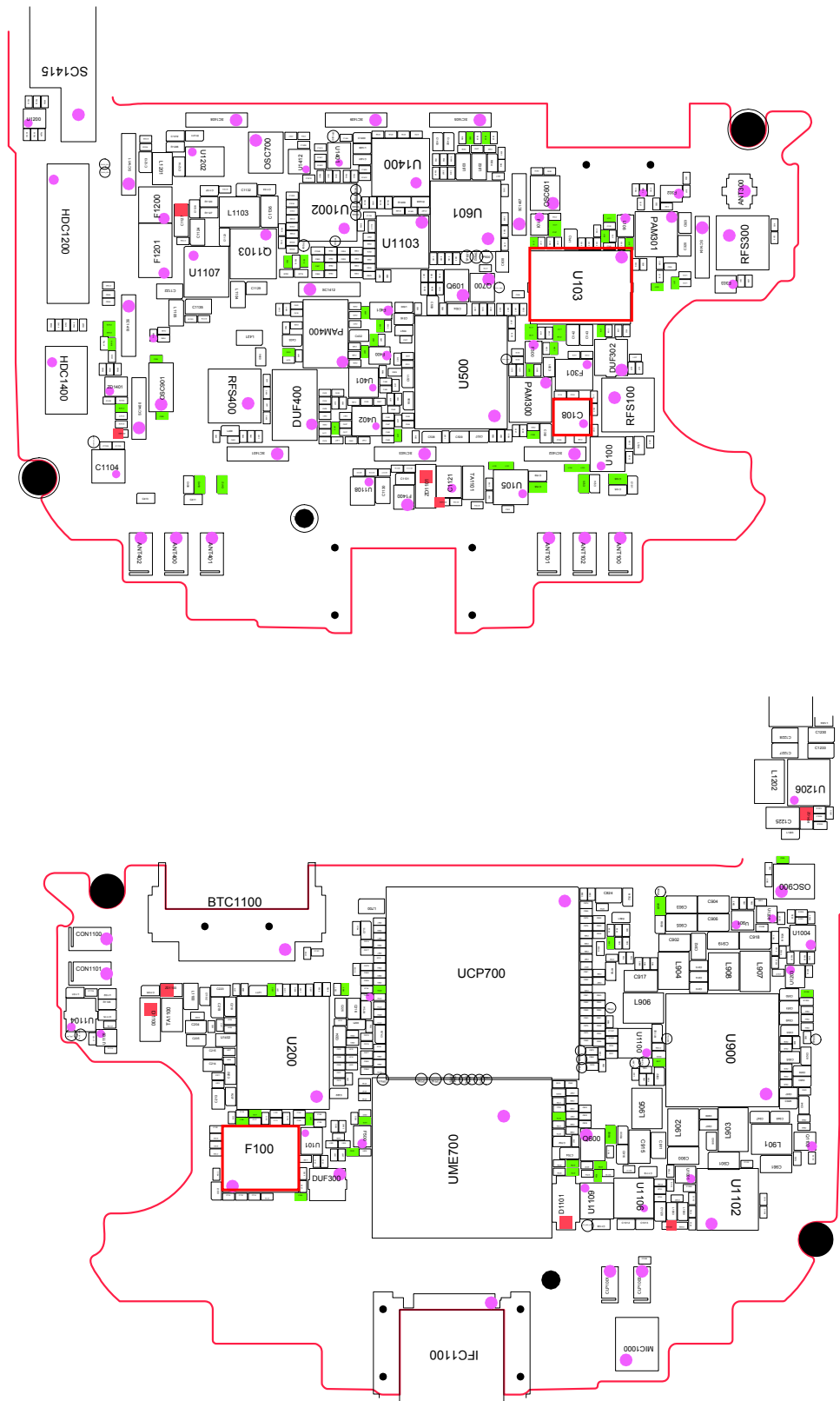


8-4-17. WCDMA Band1 TX

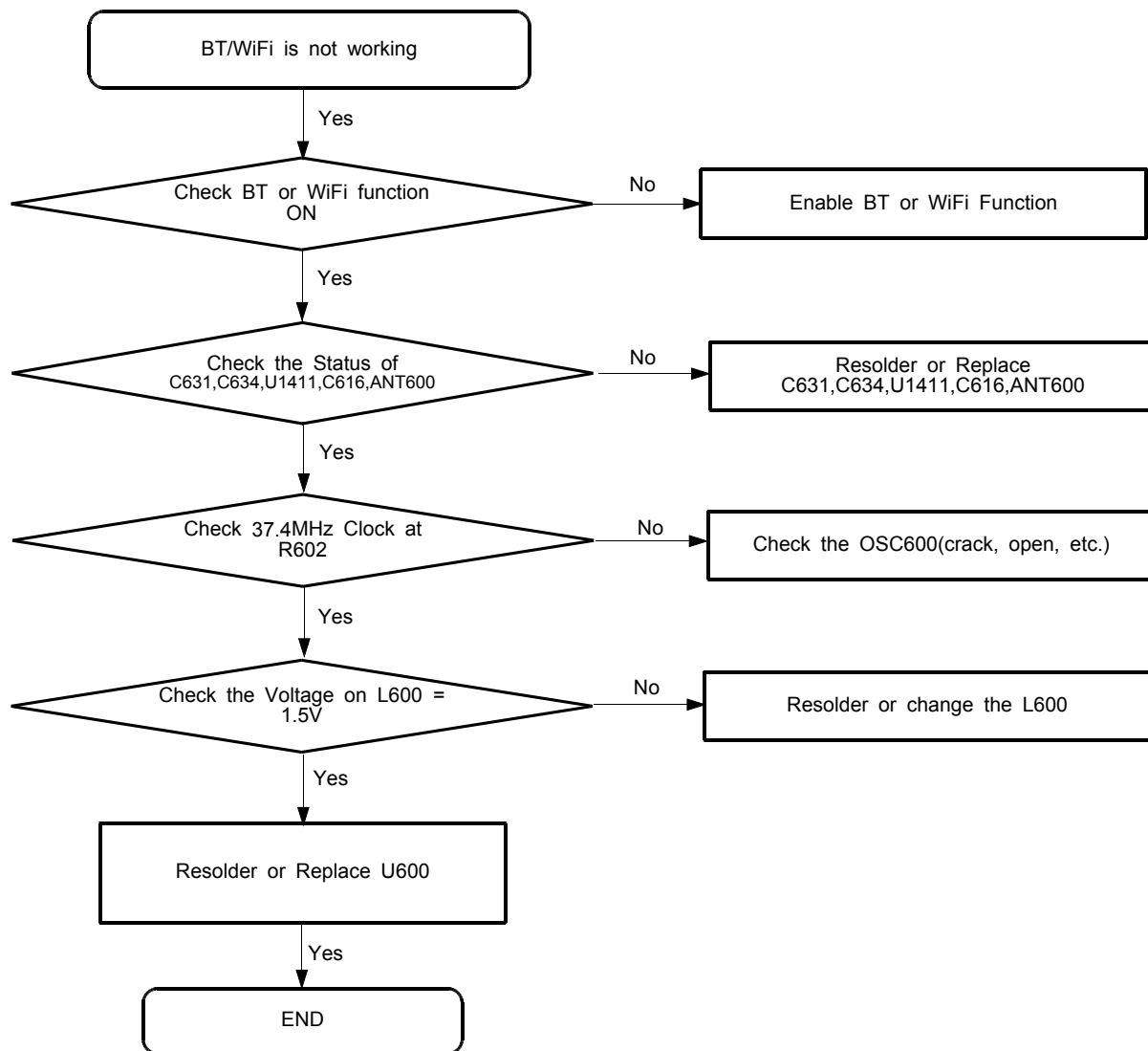
**If you check the tx chain, Check the not only RF Device but also resistor, inductor and capacitor.

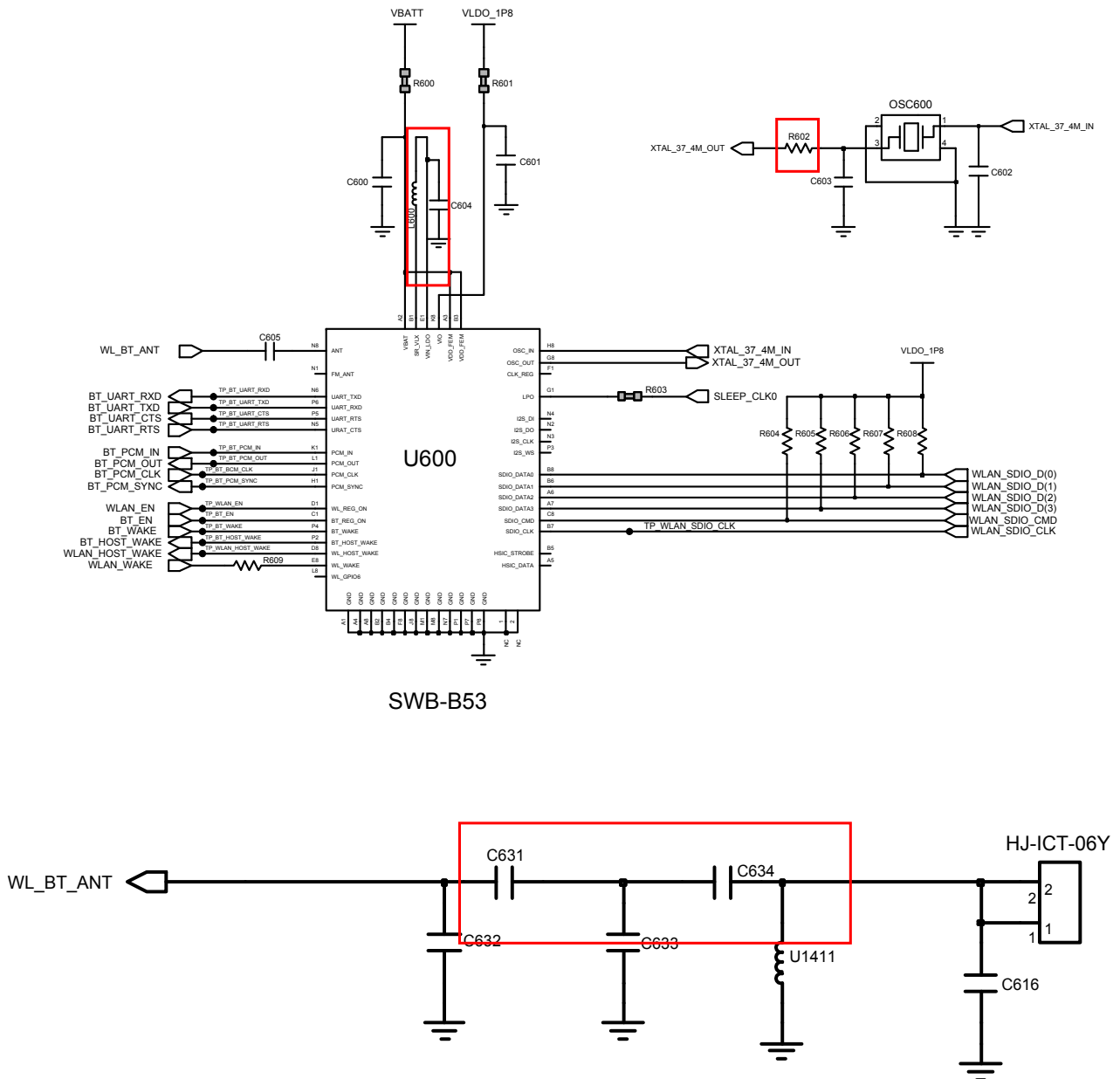


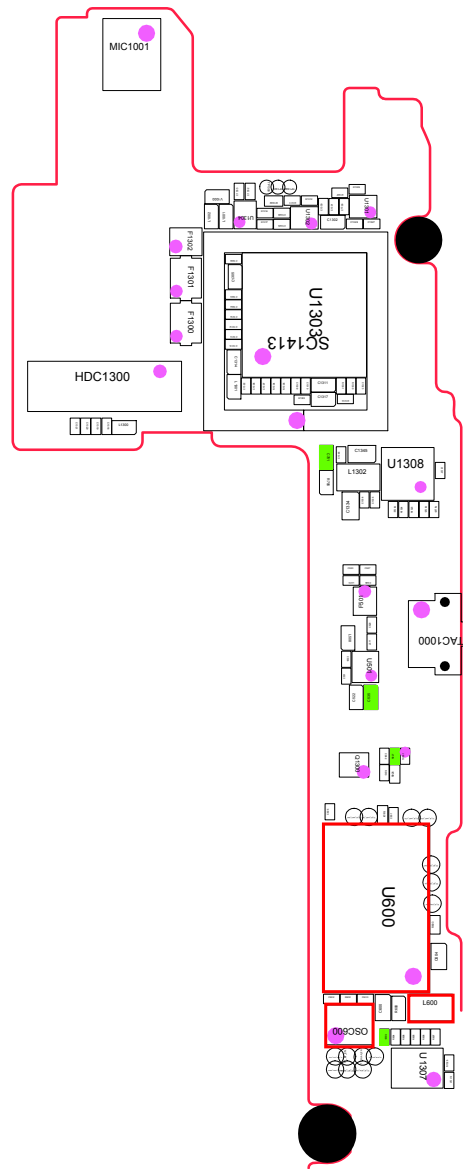




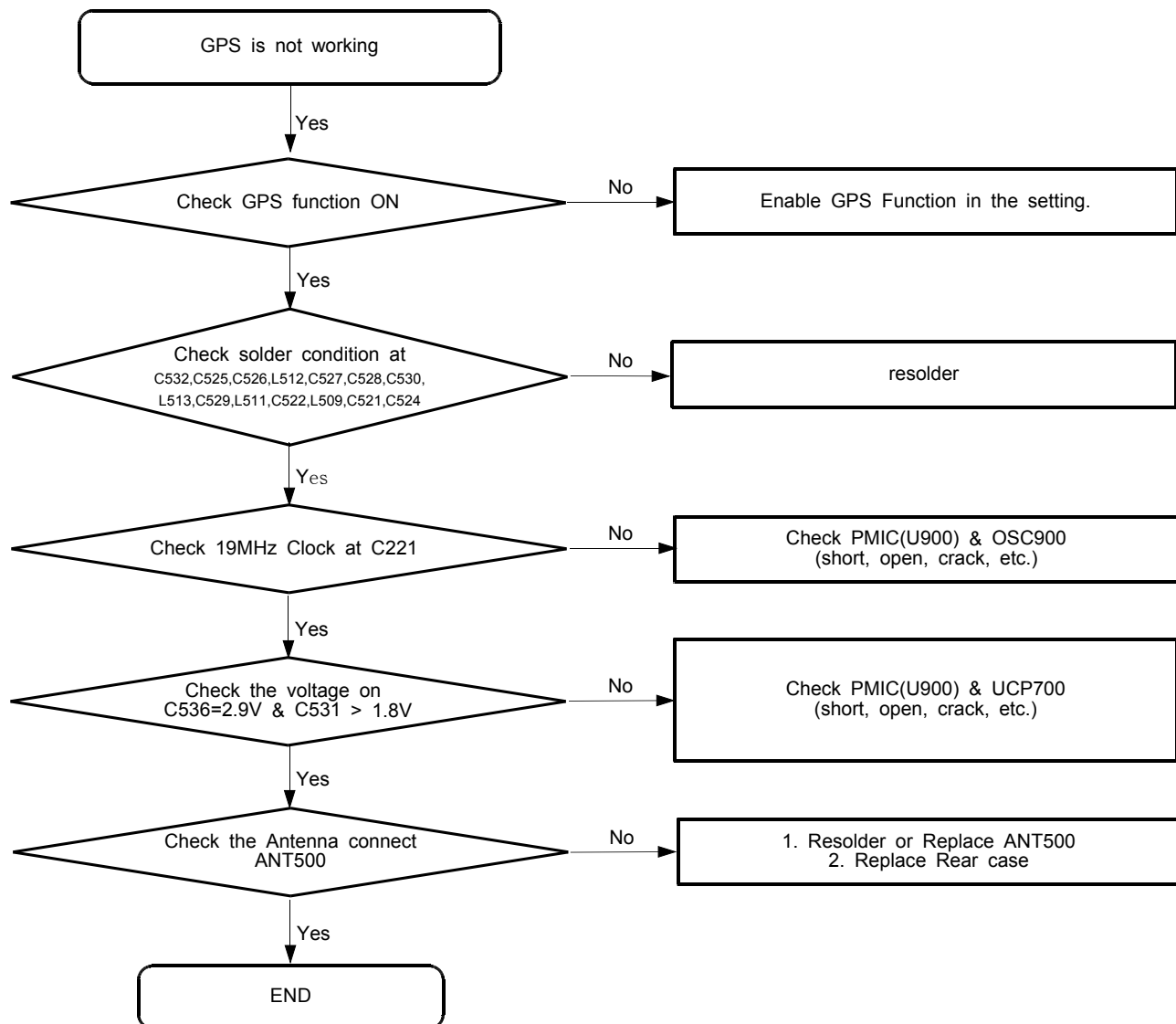
8-4-20. BT/WIFI

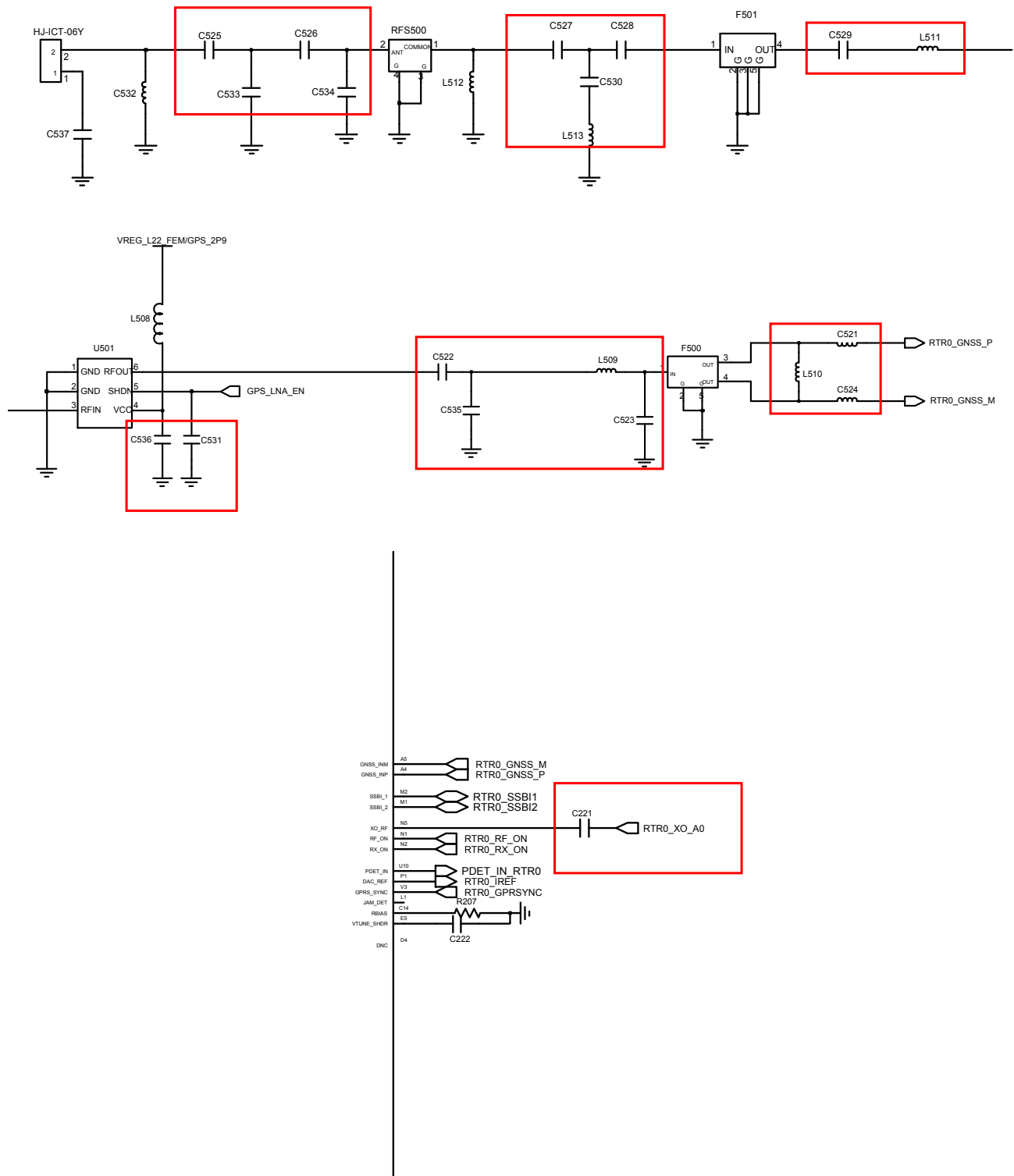


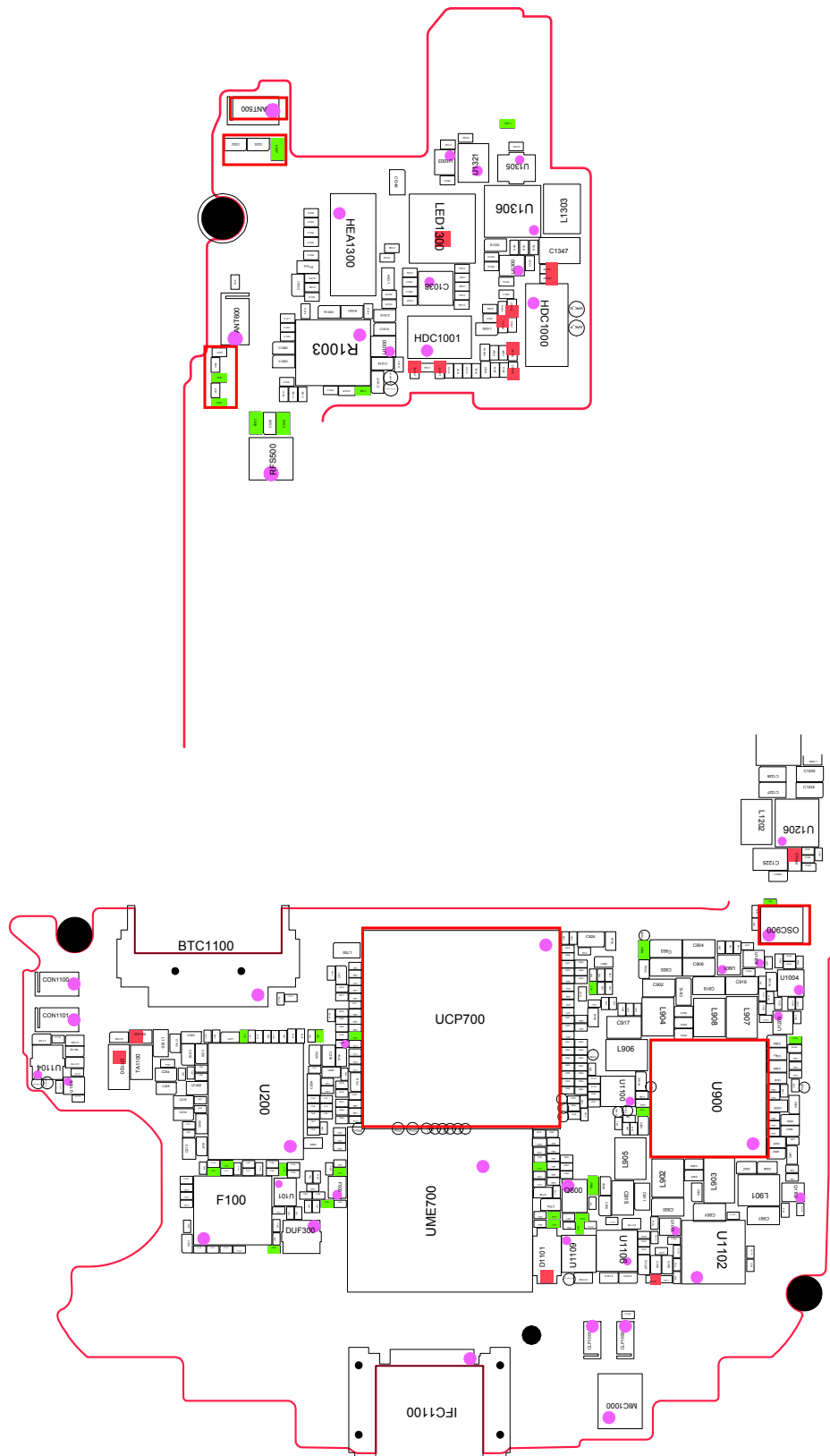




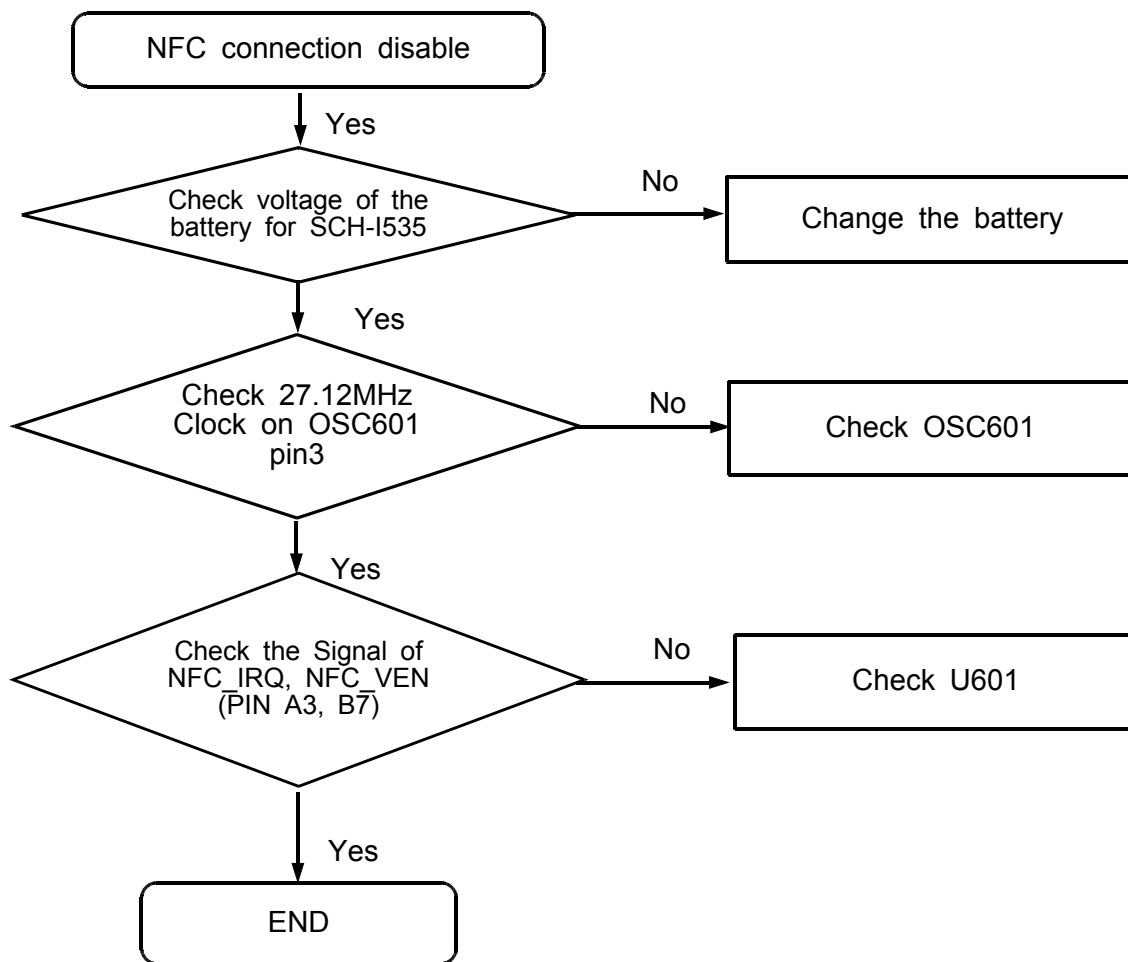
8-4-21. GPS

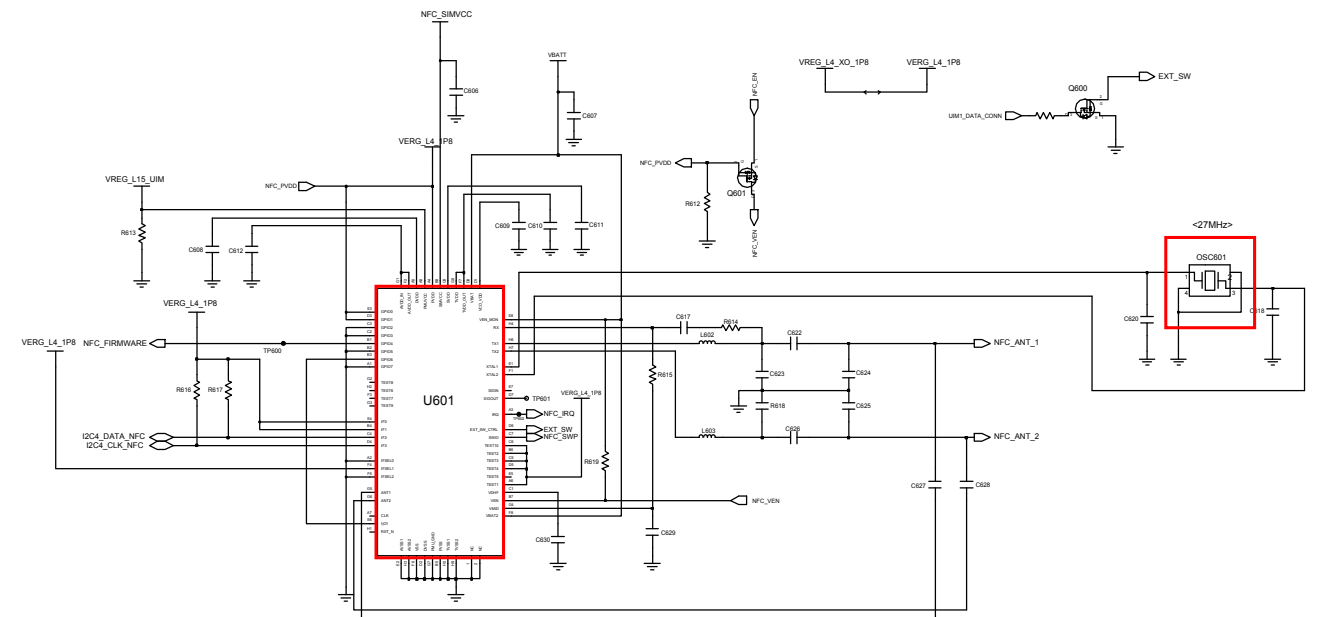






8-4-22. NFC





NFC



8-5. Service Schematics

- NC Point(Top View)

●: NC

	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	○	●		○	○		○	○		○	○		○	○
R	○	○		○	○		○	○		○	○		○	○
T	○	○		○	○		○	○		○	○		○	○
U	○	○	○	○	○	●	○	○	●	○	○	○	○	○
V	○	○	○	○	○	○	●	○	○	○	○	○	○	○

U200

	1	2	3	4	5	6	7
A	○	○	○	○	●	●	○
B	○	○	○	○	○	○	○
C	○	○	○	○	○	○	○
D	○	○	○	○	○	○	○
E	○	○	○	○	○	○	○
F	○	○	○	○	○	○	○
G	○	○	○	○	○	○	○

U1400

UCP700 (Bottom)

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

UCP700 (Top)

	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	●	●	○	○	○	○	○	●	●	○	●	●	●	●

UME700

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
A	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
B	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
C	○	○														○	○	○
D	○	○		○	○	○	○	○	○	○	○	○	○	○			○	○
E	○	○		○	○	○	○	○	○	○	○	○	○	○			○	○
F	○	○		○	○	○							○	○	○		○	○
G	○	○		○	○		○	○	○	○	○	○		○	○		○	○
H	○	○		○	○		○	○	○	○	○	○		○	○		○	○
J	○	○		○	○		○	○	○	○	○	○		○	○		○	○
K	○	○		○	○		○	○	○	○	○	○		○	○		○	○
L	○	○		○	○		○	○	○	○	○	○		○	○		○	○
M	○	○		○	○		○	○	○	○	○	○		○	○		○	○
N	○	○		○	○	○							○	○	○		○	○
P	○	○		○	○	○	○	○	○	○	○	○	○	○	○		○	○
R	○	○		○	○	○	○	○	○	○	○	○	○	○	○		○	○
T	○	○	○													○	○	○
U	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
V	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

U900