

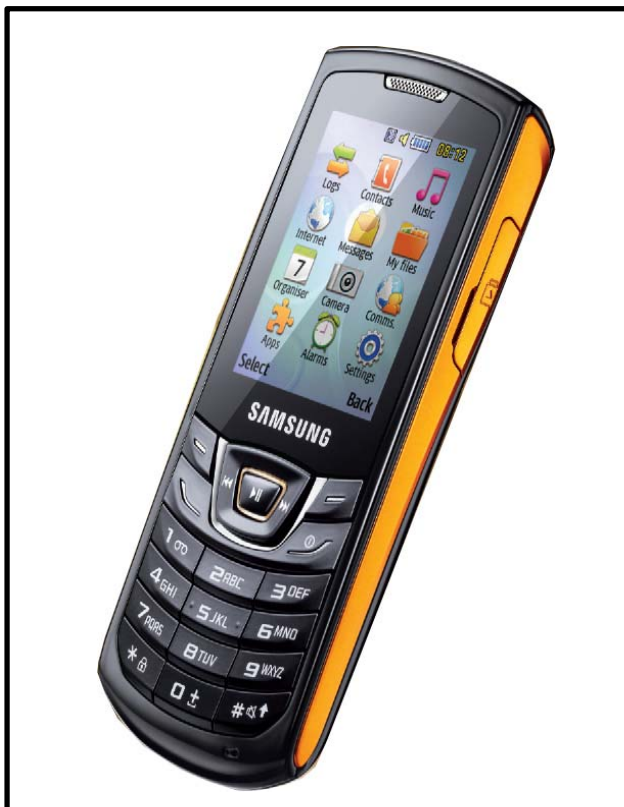
**SAMSUNG**

# GSM TELEPHONE

## GT-C3200L

# 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.

## 5. MAIN Electrical Parts List

Design LOC	SEC CODE	Description
D400	0401-001141	DIODE-SWITCHING
ZD303	0403-001688	DIODE-ZENER
ZD307	0406-001167	DIODE-TVS
ZD403	0406-001167	DIODE-TVS
ZD409	0406-001223	DIODE-TVS
ZD306	0406-001231	DIODE-TVS
ZD308	0406-001231	DIODE-TVS
ZD404	0406-001231	DIODE-TVS
ZD405	0406-001231	DIODE-TVS
ZD406	0406-001231	DIODE-TVS
ZD407	0406-001231	DIODE-TVS
ZD400	0406-001256	DIODE-TVS
ZD401	0406-001261	DIODE-TVS
ZD301	0406-001281	DIODE-TVS
ZD305	0406-001286	DIODE-TVS
ZD100	0406-001375	DIODE-TVS
ZD300	0406-001375	DIODE-TVS
ZD408	0406-001375	DIODE-TVS
Q300	0501-002606	TR-SMALL SIGNAL
Q305	0501-002663	TR-SMALL SIGNAL
Q303	0502-001322	TR-POWER
U302	0504-001151	TR-DIGITAL
LED300	0601-002846	LED
LED301	0601-002846	LED
LED302	0601-002846	LED
LED303	0601-002846	LED
LED304	0601-002846	LED
LED305	0601-002846	LED
U100	1201-002944	IC
PAM100	1201-003025	IC
U402	1202-001068	IC
U306	1203-005310	IC
U401	1203-005501	IC
U305	1203-005851	IC
U304	1203-006098	IC
U102	1205-003517	IC
TH200	1404-001224	THERMISTOR
R100	2007-000138	R-CHIP
R101	2007-000138	R-CHIP
R103	2007-000138	R-CHIP

Design LOC	SEC CODE	Description
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R330	2007-000138	R-CHIP
R337	2007-000138	R-CHIP
R338	2007-000138	R-CHIP
R339	2007-000138	R-CHIP
R340	2007-000138	R-CHIP
R341	2007-000138	R-CHIP
R342	2007-000138	R-CHIP
R343	2007-000138	R-CHIP
R345	2007-000138	R-CHIP
R346	2007-000138	R-CHIP
R431	2007-000138	R-CHIP
R102	2007-000140	R-CHIP
R316	2007-000140	R-CHIP
R318	2007-000140	R-CHIP
R322	2007-000140	R-CHIP
R408	2007-000140	R-CHIP
R409	2007-000140	R-CHIP
R410	2007-000140	R-CHIP
R109	2007-000143	R-CHIP
R213	2007-000143	R-CHIP
R214	2007-000143	R-CHIP
R215	2007-000143	R-CHIP
R304	2007-000143	R-CHIP
R305	2007-000143	R-CHIP
R319	2007-000143	R-CHIP
R329	2007-000143	R-CHIP
R406	2007-000143	R-CHIP
R200	2007-000148	R-CHIP
R204	2007-000148	R-CHIP
R209	2007-000148	R-CHIP
R310	2007-000148	R-CHIP
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R413	2007-000157	R-CHIP
R201	2007-000162	R-CHIP

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R434	2007-000166	R-CHIP
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R312	2007-000242	R-CHIP
R418	2007-000242	R-CHIP
R423	2007-000242	R-CHIP
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R303	2007-000932	R-CHIP
R108	2007-001119	R-CHIP
R419	2007-001119	R-CHIP
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R107	2007-003015	R-CHIP
R302	2007-007001	R-CHIP
R205	2007-007142	R-CHIP
R401	2007-008736	R-CHIP
R315	2007-008780	R-CHIP
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C132	2203-000254	C-CERAMIC,CHIP
C107	2203-000278	C-CERAMIC,CHIP
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C410	2203-000311	C-CERAMIC,CHIP
C119	2203-000386	C-CERAMIC,CHIP
C421	2203-000386	C-CERAMIC,CHIP
C422	2203-000386	C-CERAMIC,CHIP
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C123	2203-000438	C-CERAMIC,CHIP
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Design LOC	SEC CODE	Description
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C229	2203-000627	C-CERAMIC,CHIP
C131	2203-000679	C-CERAMIC,CHIP
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C400	2203-000812	C-CERAMIC,CHIP
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C429	2203-000812	C-CERAMIC,CHIP
C413	2203-000854	C-CERAMIC,CHIP
C305	2203-000940	C-CERAMIC,CHIP
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C133	2203-002443	C-CERAMIC,CHIP
C234	2203-002443	C-CERAMIC,CHIP
C224	2203-002487	C-CERAMIC,CHIP
C236	2203-002487	C-CERAMIC,CHIP
C108	2203-002668	C-CERAMIC,CHIP
C243	2203-002668	C-CERAMIC,CHIP
C319	2203-002668	C-CERAMIC,CHIP
C118	2203-002709	C-CERAMIC,CHIP
C222	2203-002709	C-CERAMIC,CHIP
C102	2203-005057	C-CERAMIC,CHIP
C112	2203-005234	C-CERAMIC,CHIP
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C128	2203-005281	C-CERAMIC,CHIP
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C227	2203-005480	C-CERAMIC,CHIP
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Design LOC	SEC CODE	Description
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C209	2203-006399	C-CERAMIC,CHIP
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C431	2203-006399	C-CERAMIC,CHIP
C432	2203-006399	C-CERAMIC,CHIP
C219	2203-006562	C-CERAMIC,CHIP
C308	2203-006562	C-CERAMIC,CHIP
C404	2203-006562	C-CERAMIC,CHIP
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C329	2203-006841	C-CERAMIC,CHIP
C418	2203-006841	C-CERAMIC,CHIP

Design LOC	SEC CODE	Description
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C120	2203-006872	C-CERAMIC,CHIP
C310	2203-006872	C-CERAMIC,CHIP
C316	2203-006872	C-CERAMIC,CHIP
C317	2203-006872	C-CERAMIC,CHIP
C405	2203-006890	C-CERAMIC,CHIP
C235	2203-007269	C-CERAMIC,CHIP
C106	2203-007279	C-CERAMIC,CHIP
C323	2203-007279	C-CERAMIC,CHIP
BAT200	2409-001172	CAPACITOR
L121	2703-000213	INDUCTOR-SMD
L127	2703-001178	INDUCTOR-SMD
L128	2703-001178	INDUCTOR-SMD
L107	2703-001726	INDUCTOR-SMD
L131	2703-001726	INDUCTOR-SMD
L113	2703-002176	INDUCTOR-SMD
L129	2703-002198	INDUCTOR-SMD
L102	2703-002199	INDUCTOR-SMD
L106	2703-002199	INDUCTOR-SMD
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L122	2703-002204	INDUCTOR-SMD
L115	2703-002208	INDUCTOR-SMD
L116	2703-002208	INDUCTOR-SMD
L108	2703-002369	INDUCTOR-SMD
L109	2703-002369	INDUCTOR-SMD
L110	2703-002369	INDUCTOR-SMD
L111	2703-002369	INDUCTOR-SMD
L117	2703-002369	INDUCTOR-SMD
L130	2703-002708	INDUCTOR-SMD
L403	2703-003485	INDUCTOR-SMD
L124	2703-003781	INDUCTOR-SMD
L201	2703-003869	INDUCTOR-SMD
OSC200	2801-004551	CRYSTAL-UNIT
OSC201	2801-004896	CRYSTAL-UNIT
F101	2904-001923	FILTER-SAW
F100	2904-001924	FILTER-SAW
F102	2909-001283	FILTER-DUPLEXER
MIC400	3003-001138	MIC-CONDENSOR
L404	3301-001729	CORE-FERRITE BEAD
L405	3301-001729	CORE-FERRITE BEAD

Design LOC	SEC CODE	Description
L400	3301-001812	CORE-FERRITE BEAD
L401	3301-001812	CORE-FERRITE BEAD
L402	3301-001812	CORE-FERRITE BEAD
L406	3301-001812	CORE-FERRITE BEAD
L407	3301-001917	CORE-FERRITE BEAD
L408	3301-001917	CORE-FERRITE BEAD
L200	3301-002000	CORE-FERRITE BEAD
TAC300	3404-001303	SWITCH-TACT
TAC301	3404-001303	SWITCH-TACT
RFS100	3705-001503	CONNECTOR-COAXIAL
SIM300	3709-001447	CONNECTOR-CARD EDGE
SD300	3709-001570	CONNECTOR-CARD EDGE
IFC400	3710-002683	CONNECTOR-SOCKET
CN400	3710-003235	CONNECTOR-SOCKET
HEA401	3711-005643	CONNECTOR-HEADER
BTC300	3711-007437	CONNECTOR-HEADER
ANT102	4202-001463	ANTENNA-CHIP
SC101	GH70-03349A	IPR SHIELD-CAN CLIP
SC102	GH70-03349A	IPR SHIELD-CAN CLIP
UCP200	1205-004030	IC
UME200	1108-000309	MEMORY
EAR400	3722-003082	JACK-PHONE



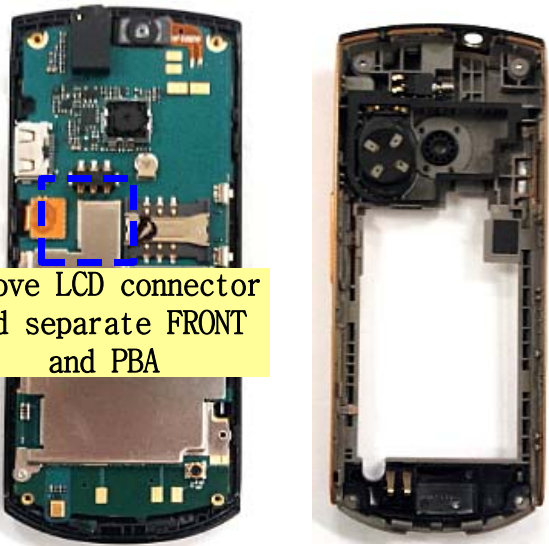
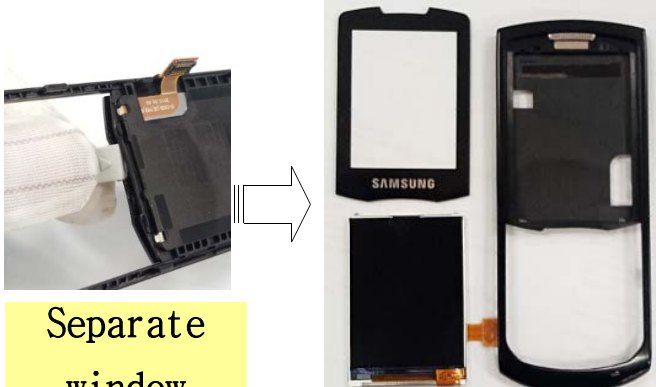
Please consult the GSPN website (Samsung Portal) for the most recent version of the product's part list.



## 7. Level 2 Repair

### 7-1. Disassembly and Assembly Instructions

#### 7-1-1. Disassembly

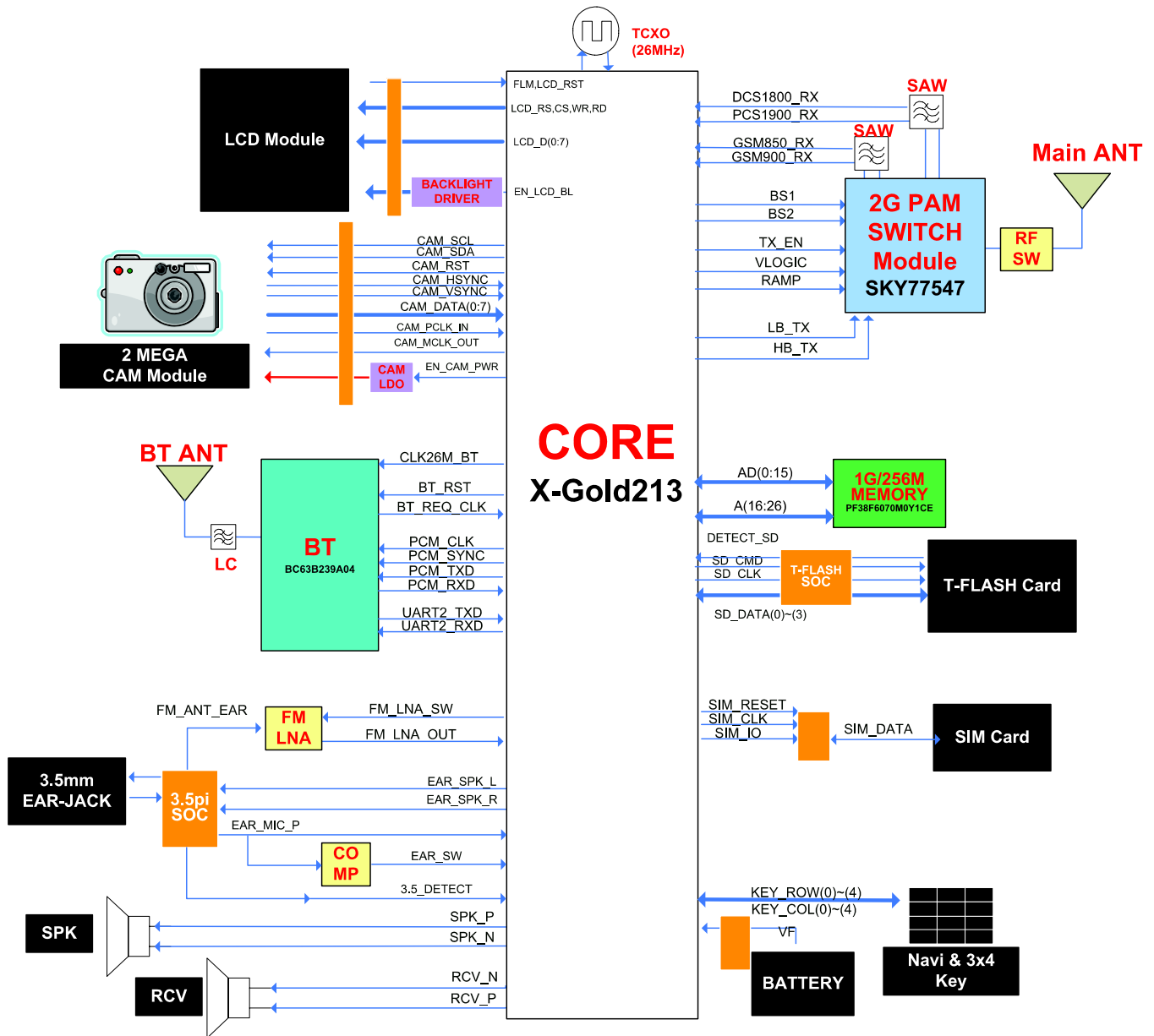
<div data-bbox="167 321 207 363">1</div>  <div data-bbox="315 585 613 632">Loosen screws</div>	<div data-bbox="824 321 865 363">2</div> <div data-bbox="943 390 1370 478">Remove hook at the bottom</div> 
<p>1) Loosen screws at 4 points.</p> <p>※ <b>Caution</b></p> <p>1) Be careful not to make scratch and molding damage!</p>	<p>1) Separate the rear using separation tool.</p> <p>※ <b>Caution</b></p> <p>1) Be careful not to make scratch and molding damage!</p>
<div data-bbox="167 1092 207 1134">3</div>  <div data-bbox="167 1409 488 1518">Remove LCD connector and separate FRONT and PBA</div>	<div data-bbox="824 1092 865 1134">4</div>  <div data-bbox="857 1545 1024 1644">Separate window</div>
<p>1) Remove LCD connector and separate FRONT and PBA.</p> <p>※ <b>Caution</b></p> <p>1) Be careful not to make scratch and molding damage!</p>	<p>1) Separate window and LCD.</p> <p>※ <b>Caution</b></p> <p>1) Be careful not to make scratch and molding damage!</p>

## 7-1-2. Assembly

<p><b>1</b></p> 	<p><b>2</b></p> 
<p>1) Assemble LCD and window with FRONT.  <b>※ Caution</b>            1) Be careful not to make scratch and molding damage!</p>	<p>1) Place keypad at the FRONT.  <b>※ Caution</b>            1) Be careful not to make scratch and molding damage!</p>
<p><b>3</b></p> 	<p><b>4</b></p> 
<p>1) Put PBA and connect LCD.  <b>※ Caution</b>            1) Be careful not to make scratch and molding damage!</p>	<p>1) Assemble rear and joint screws at 4 points. (toque 1.2)  <b>※ Caution</b>            1) Be careful not to make scratch and molding damage!</p>

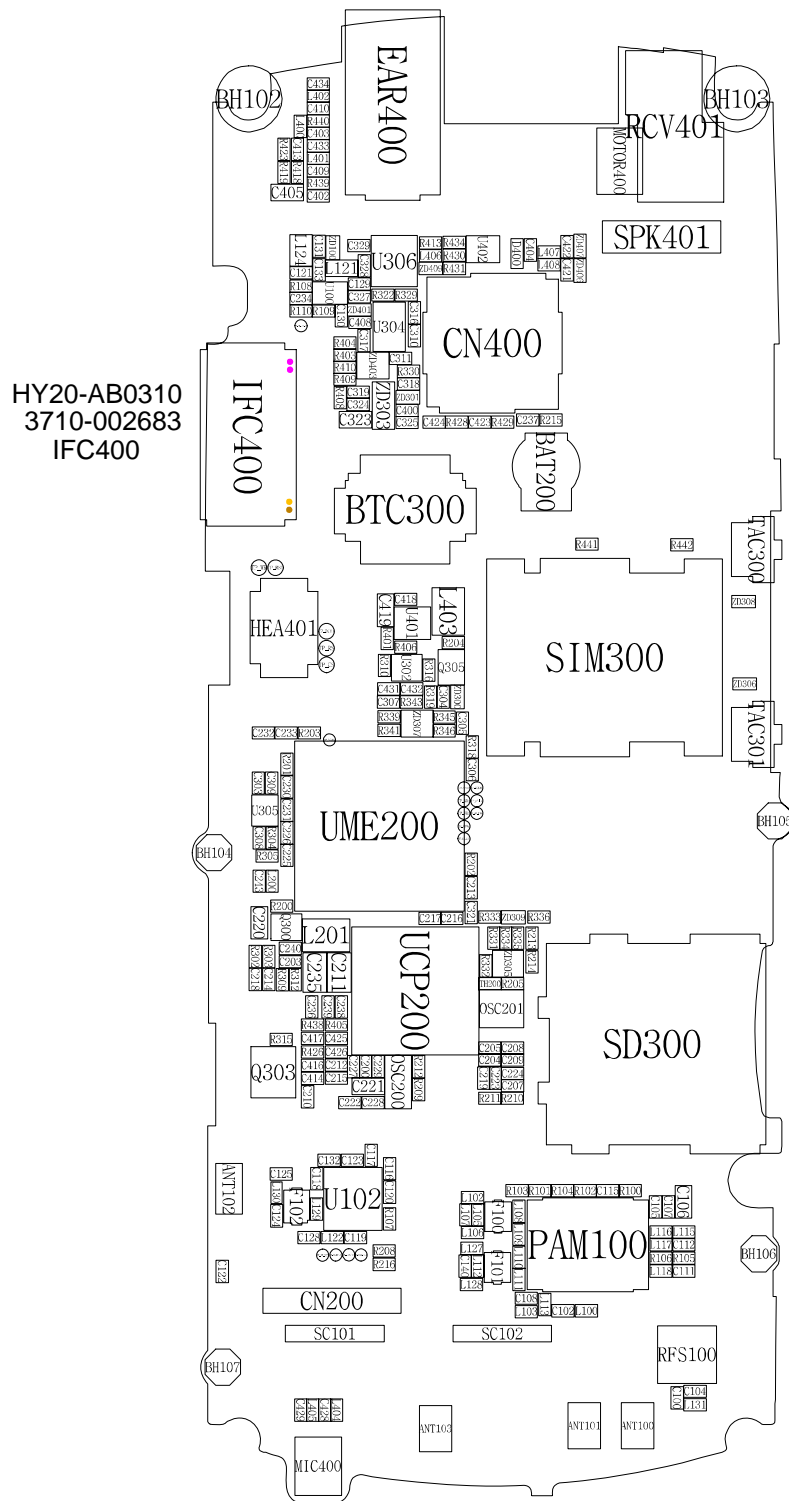
## 8. Level 3 Repair

### 8-1. Block Diagram

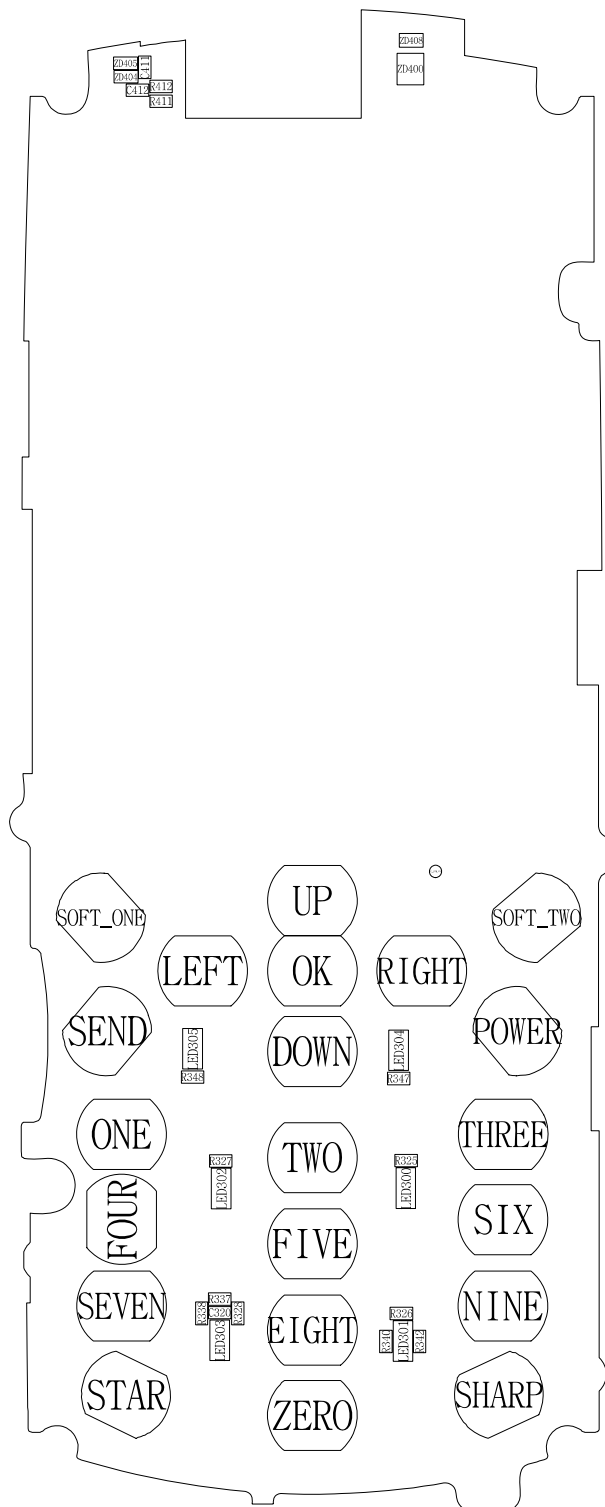


## 8-2. PCB Diagrams

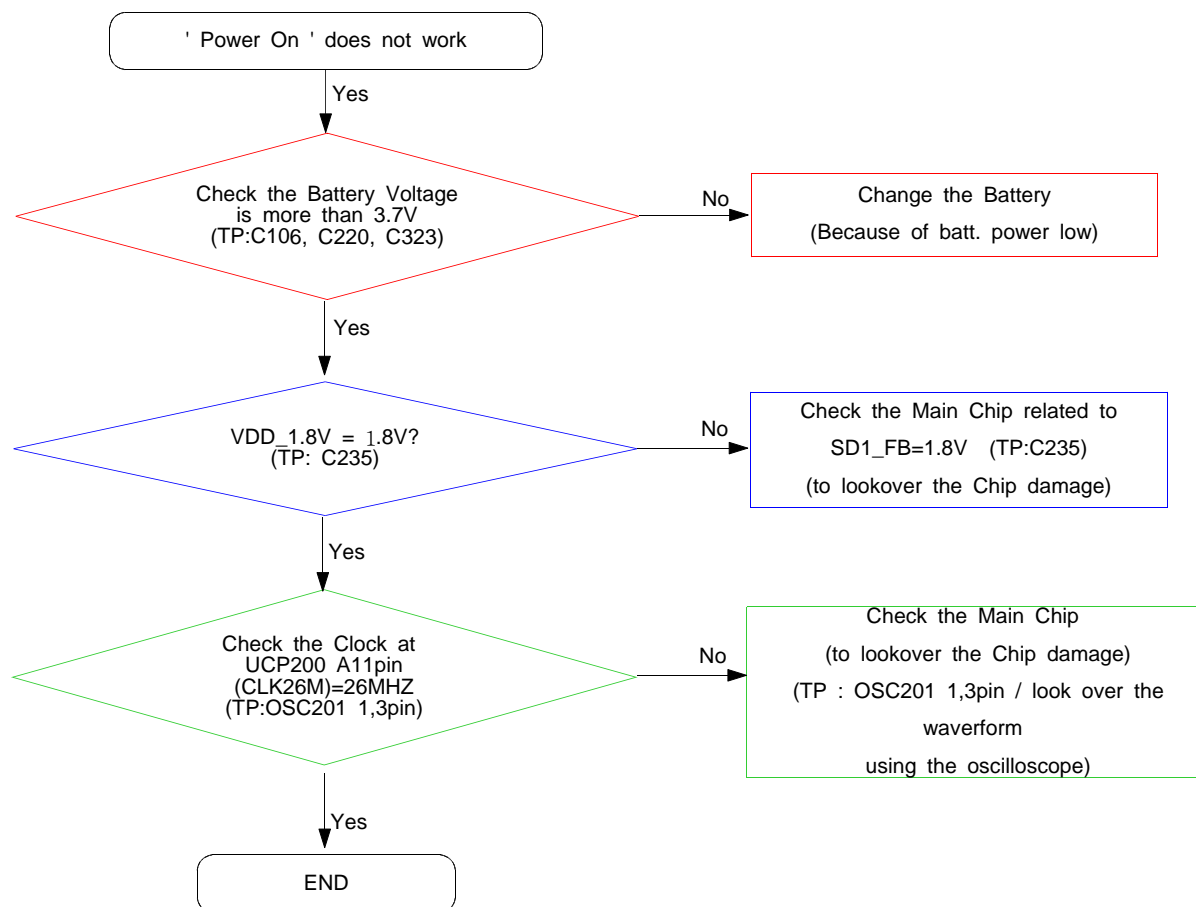
### 8-2-1. Top

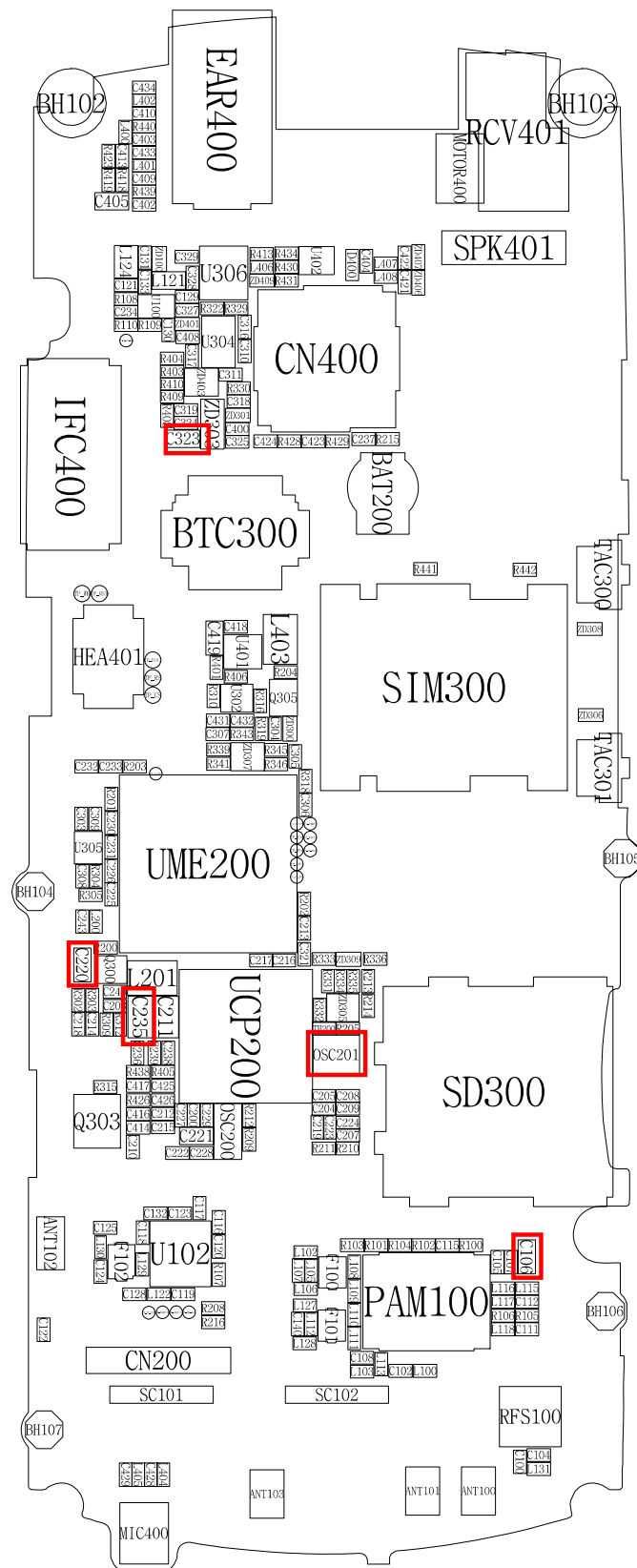


## 8-2-1. Bottom



## 8-3-1. Power On

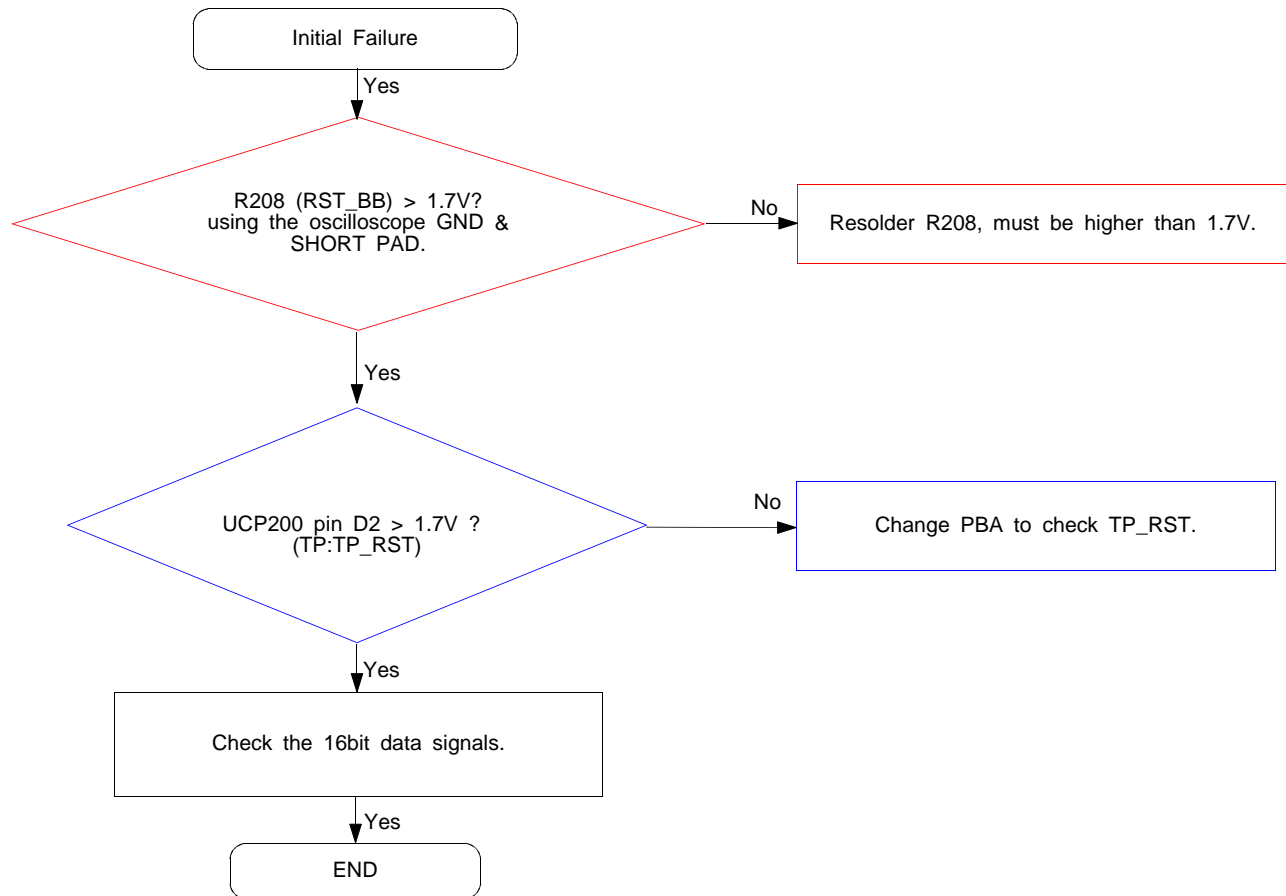


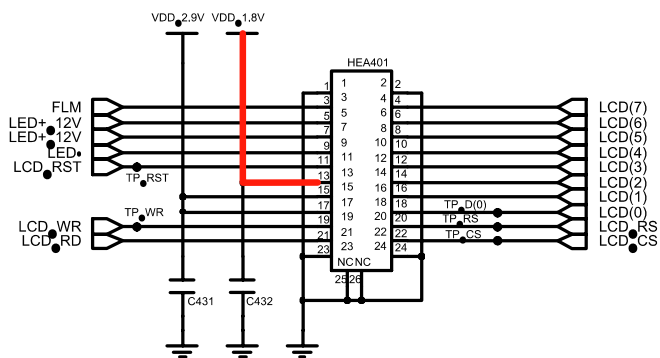
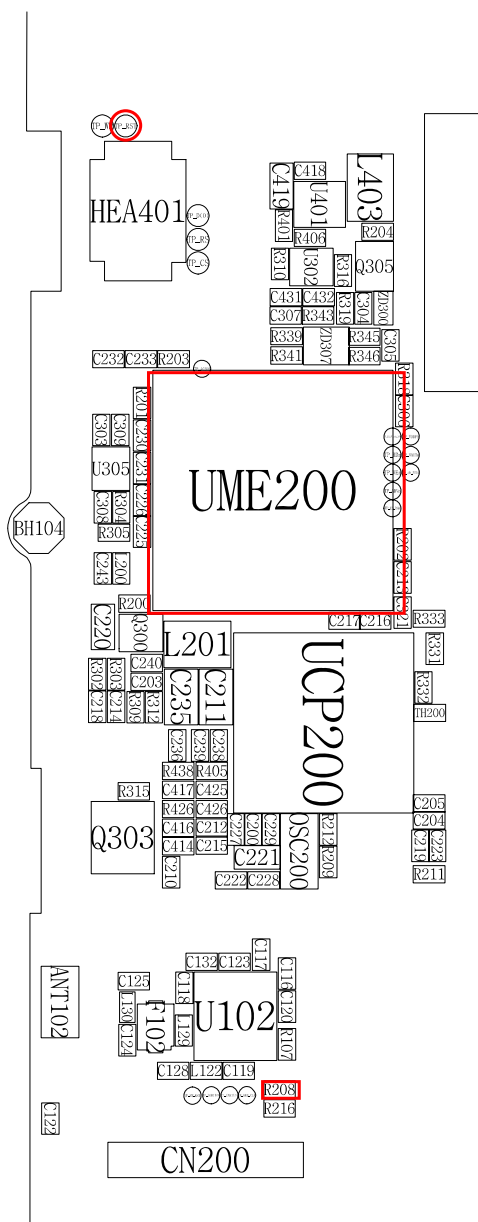


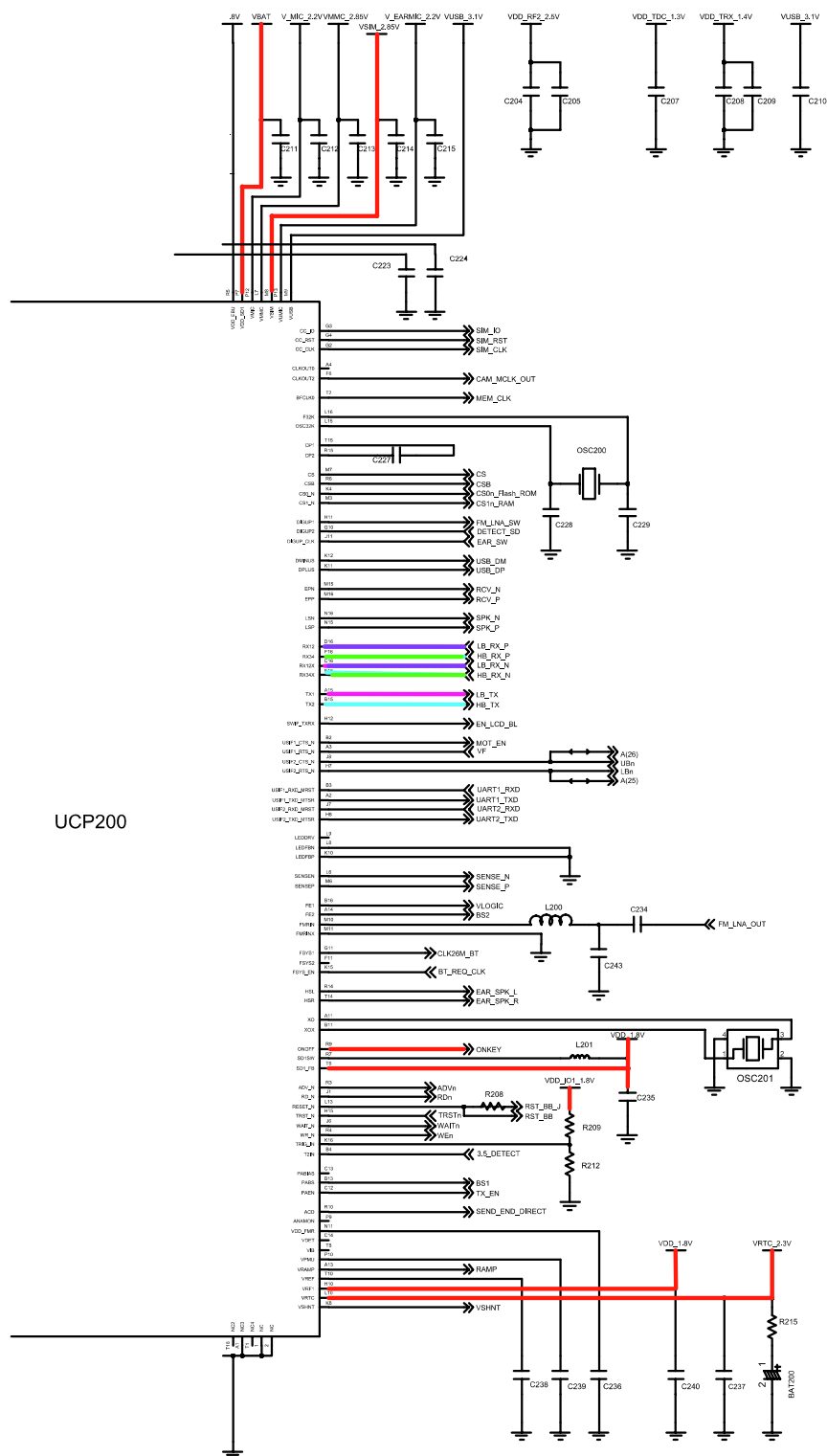




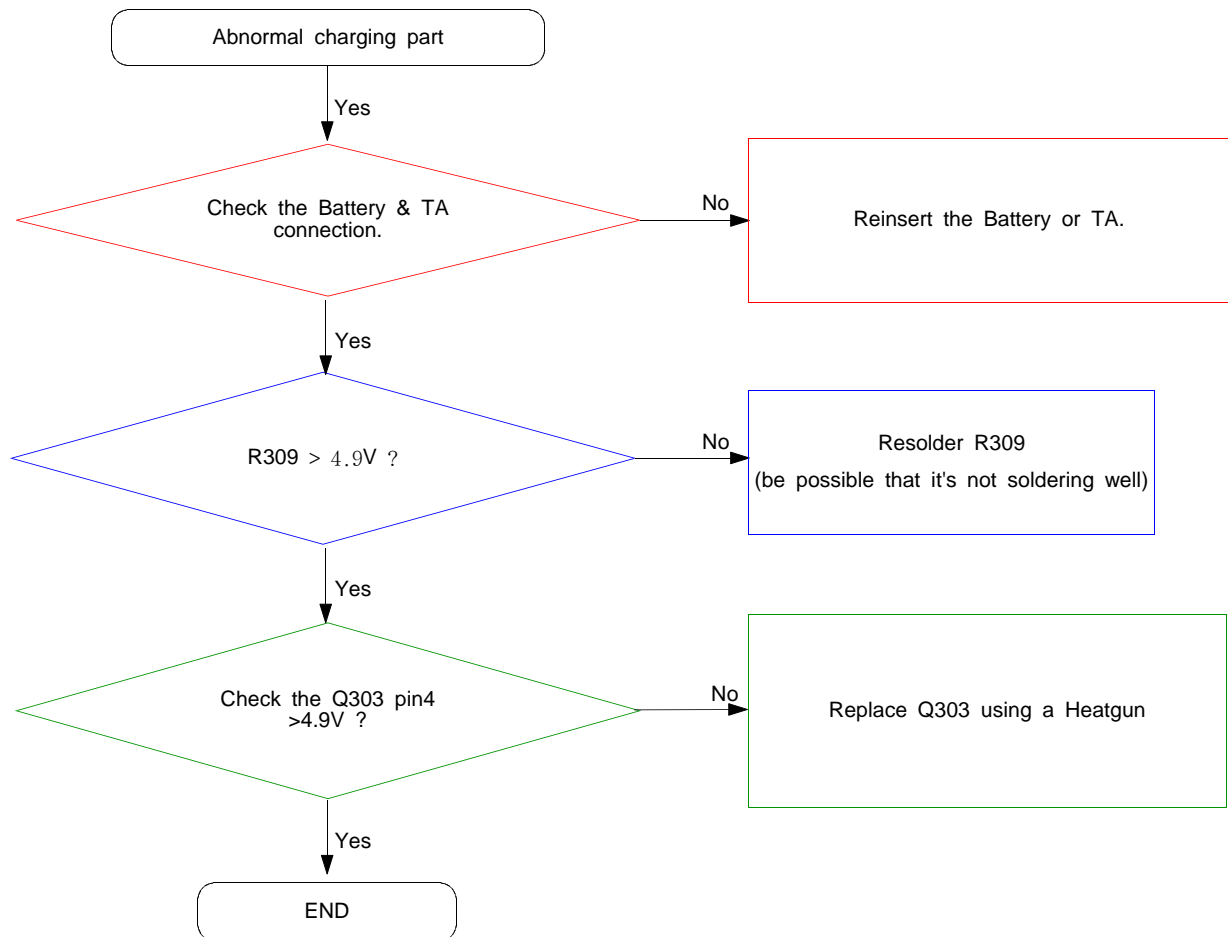
## 8-3-2. Initial

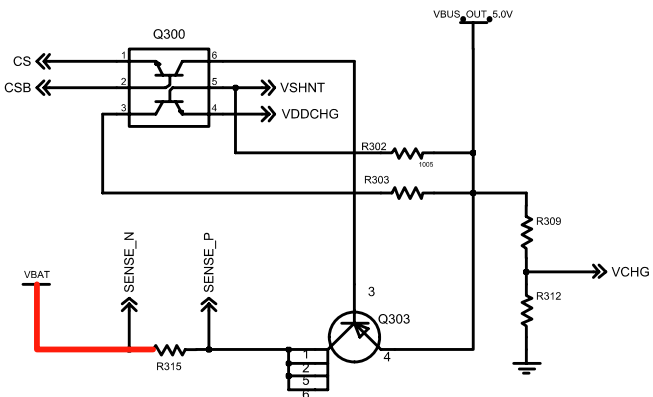




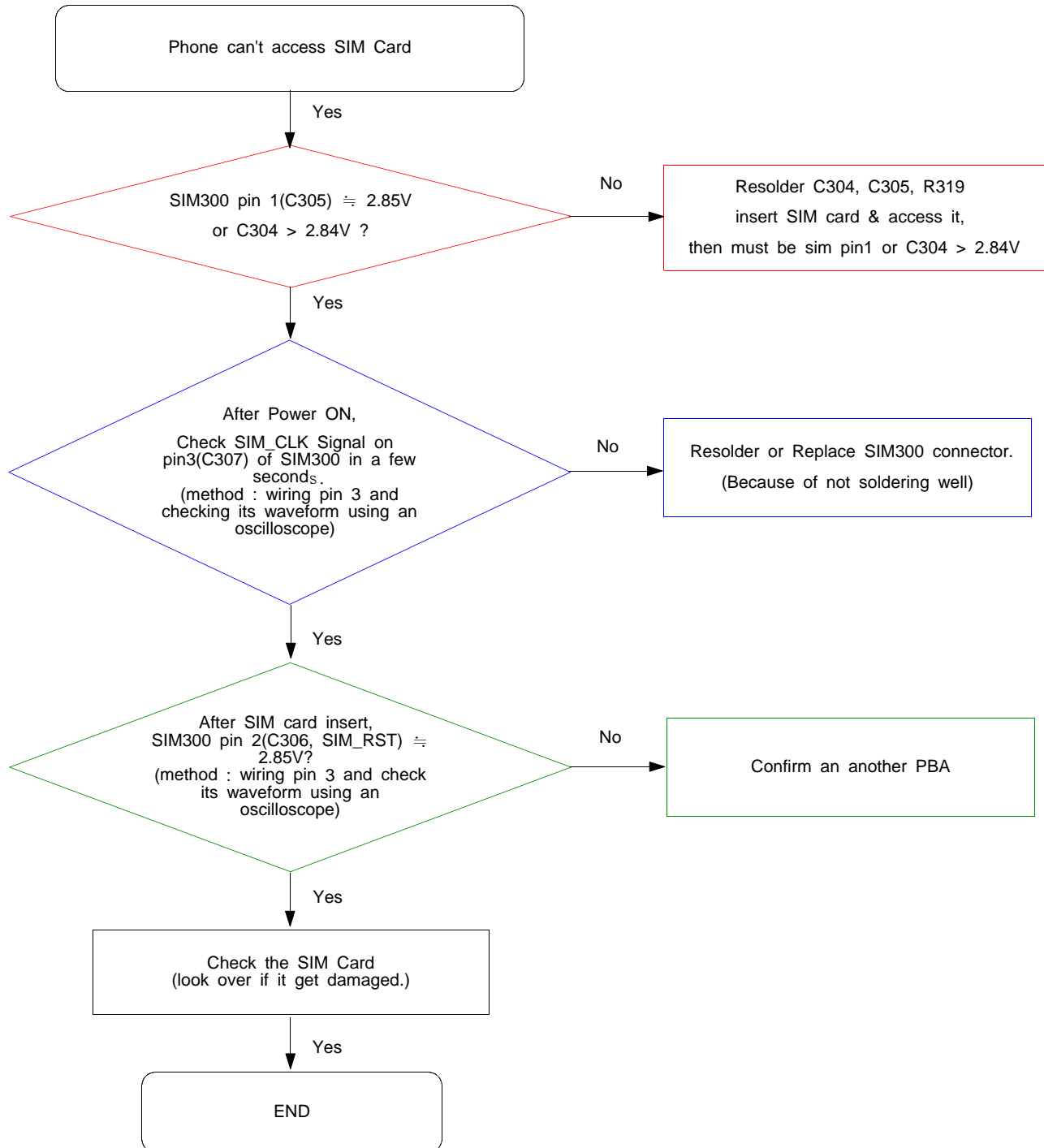


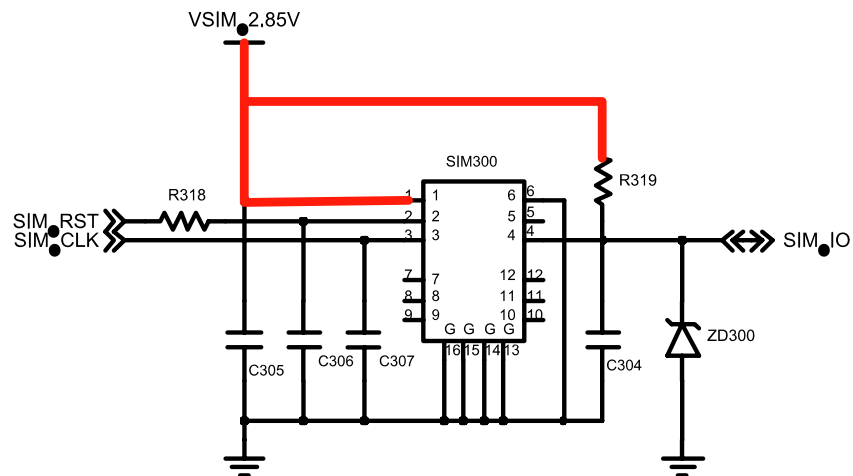
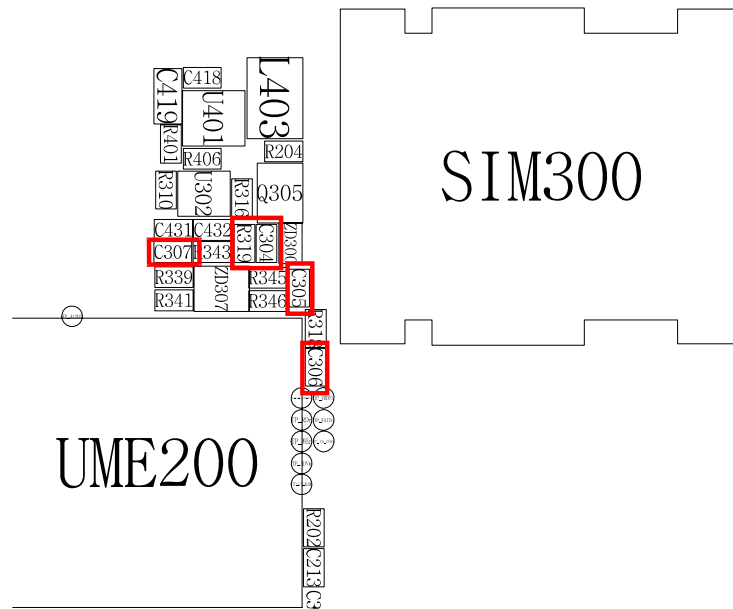
### 8-3-3. Charging Part



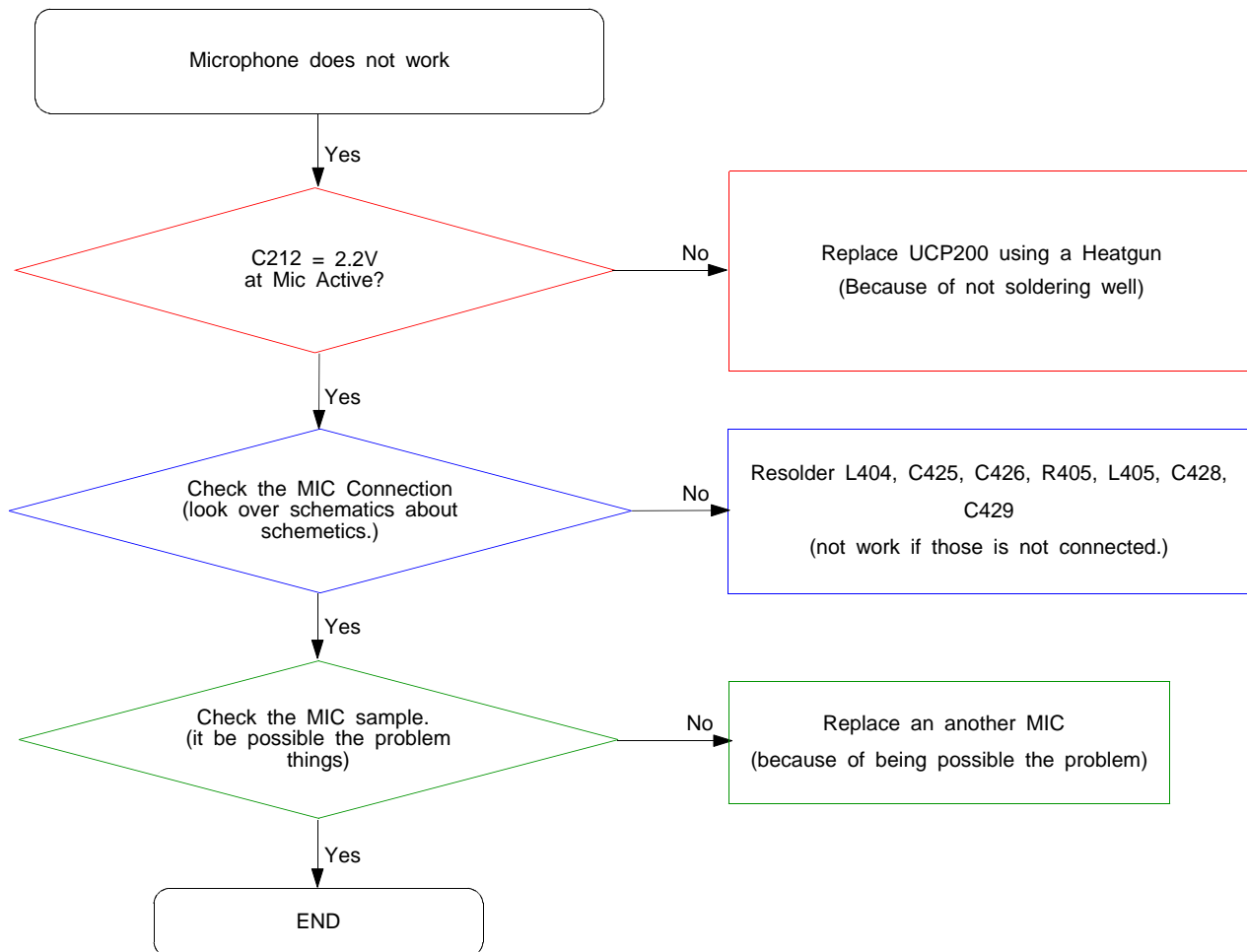


## 8-3-4. Sim Part

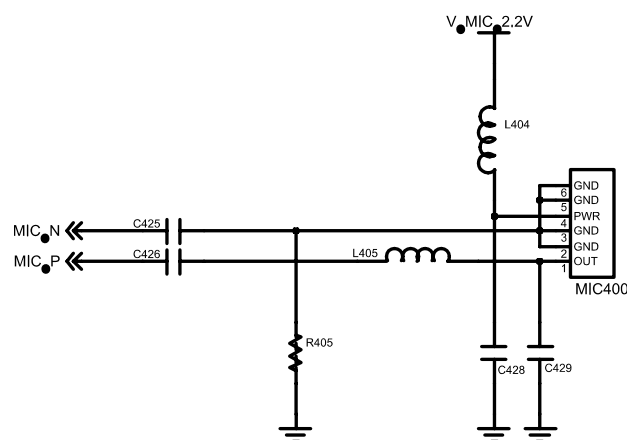
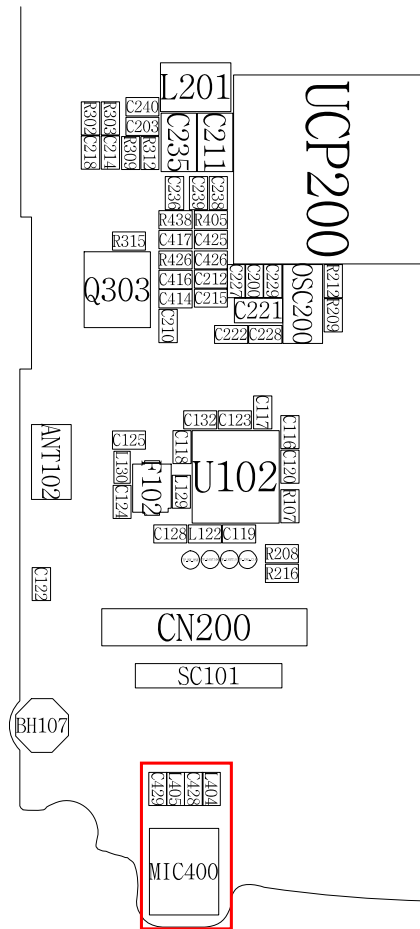




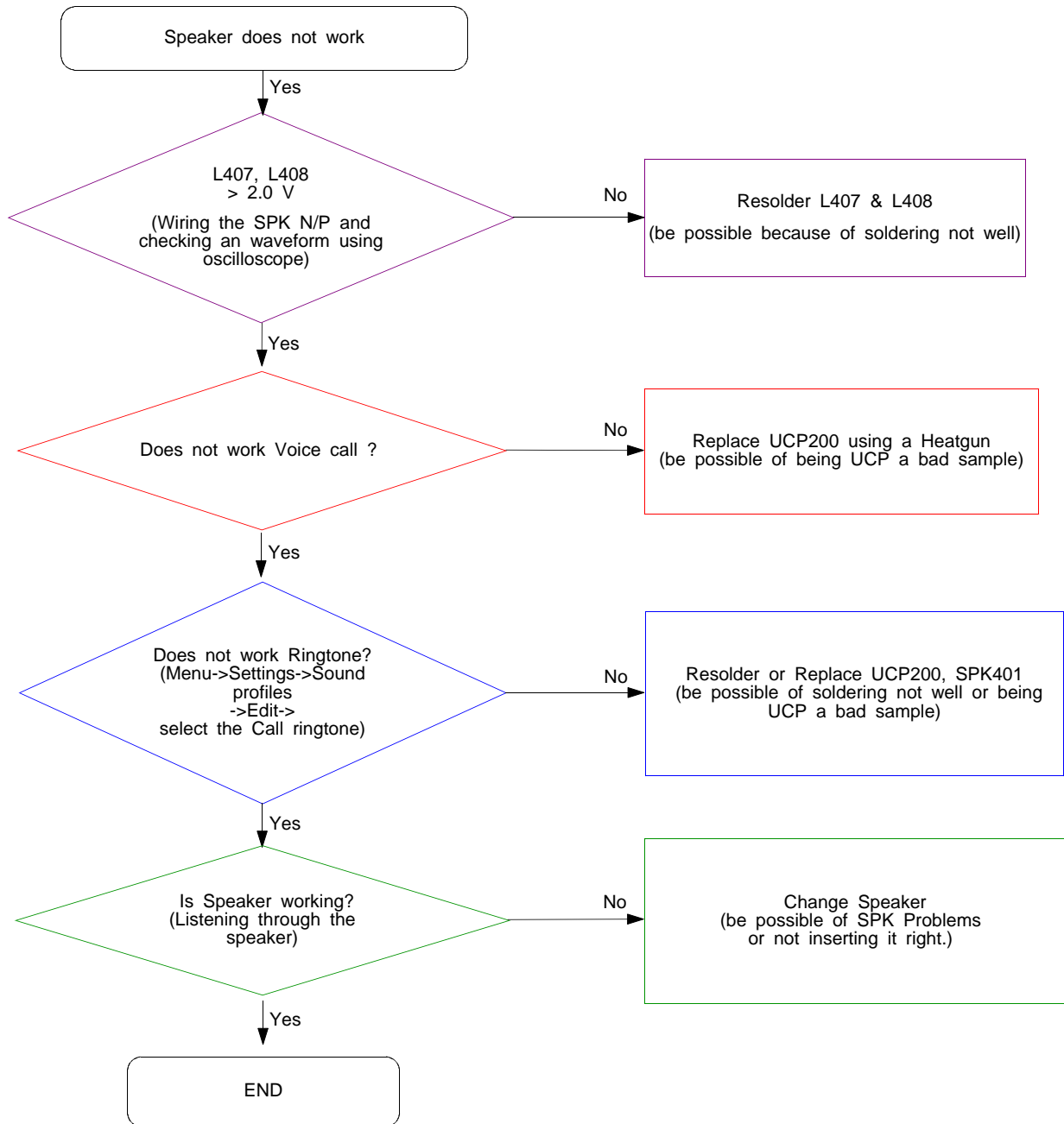
### 8-3-5. Microphone Part

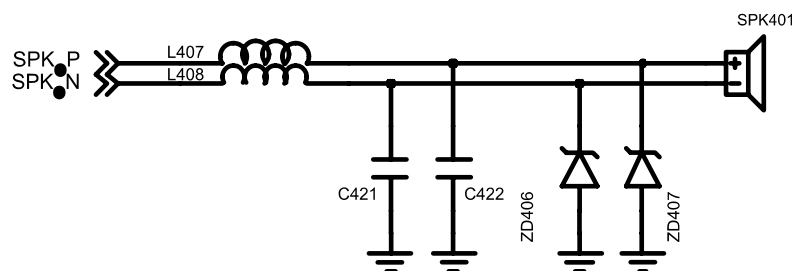
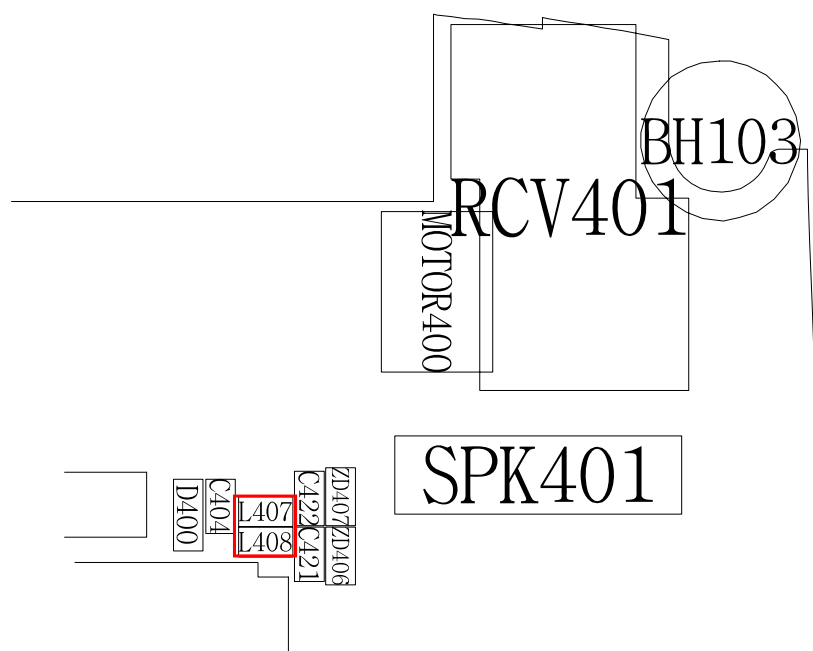




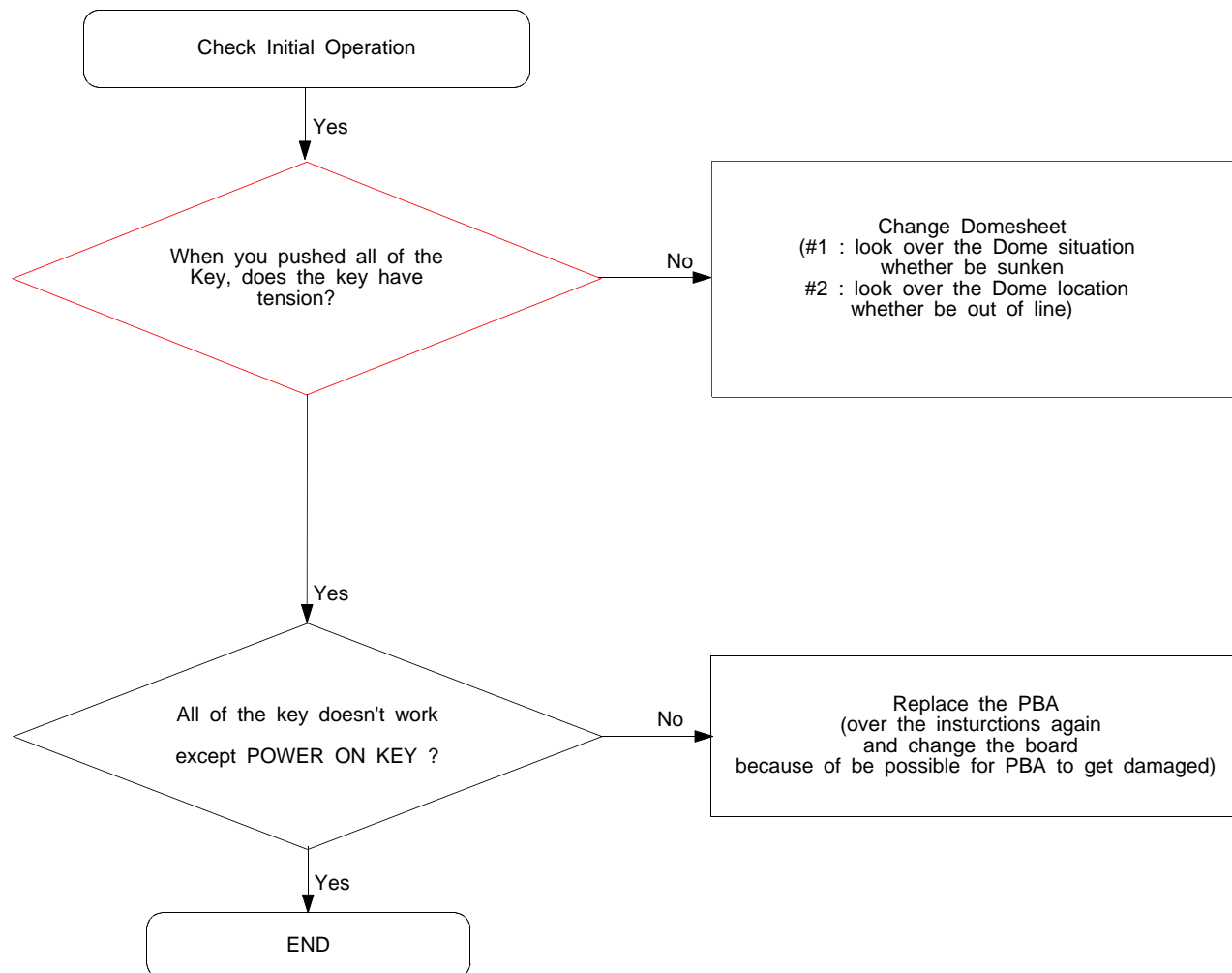


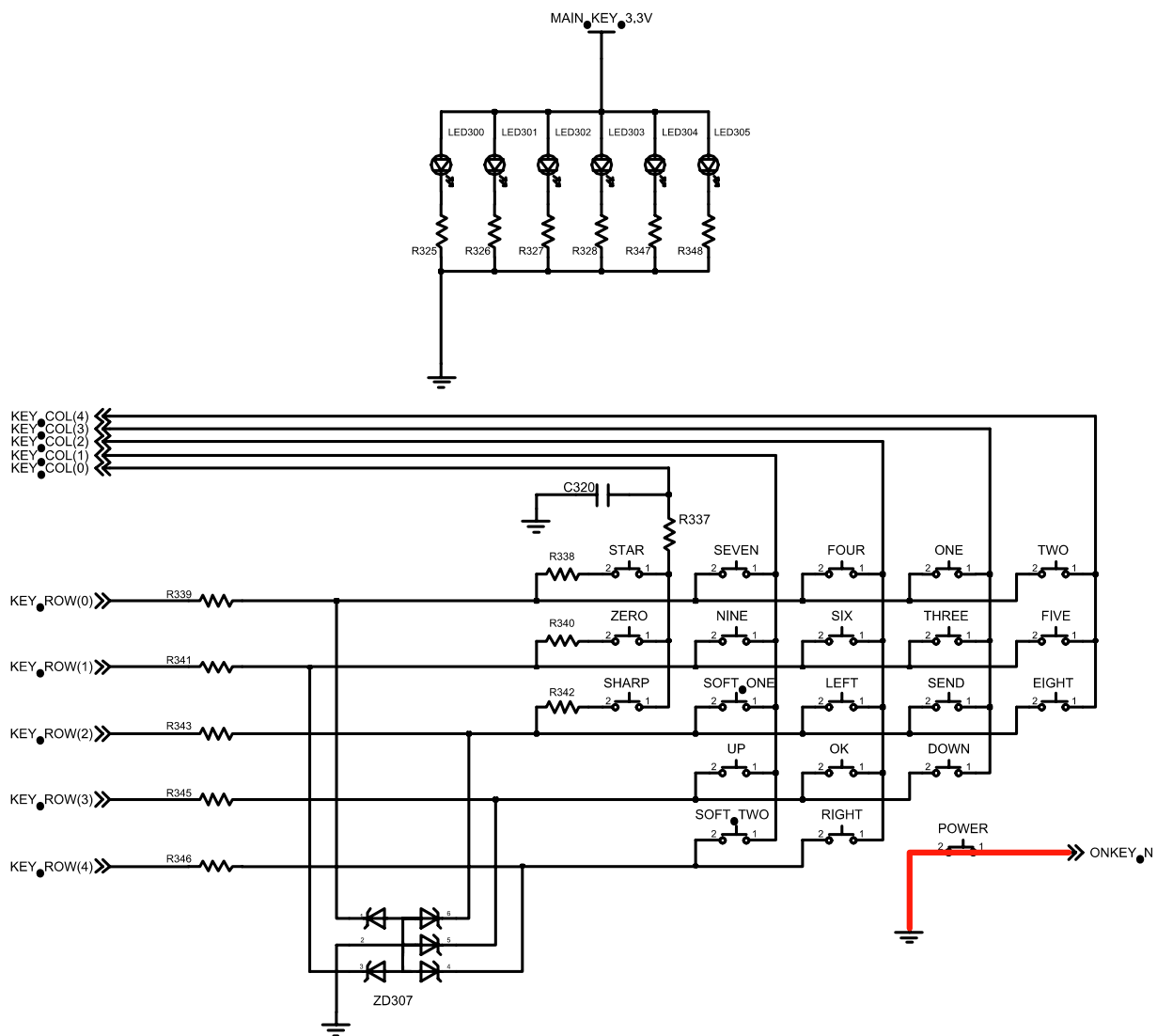
### 8-3-6. Speaker Part



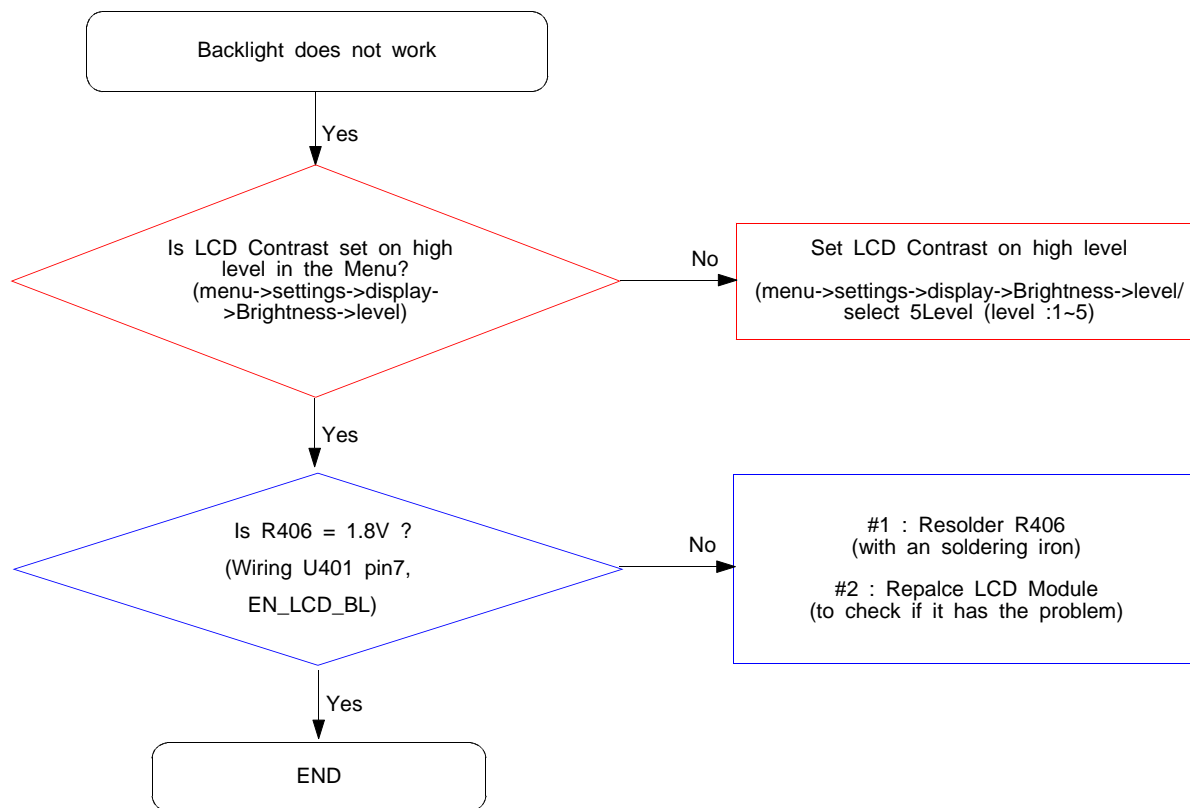


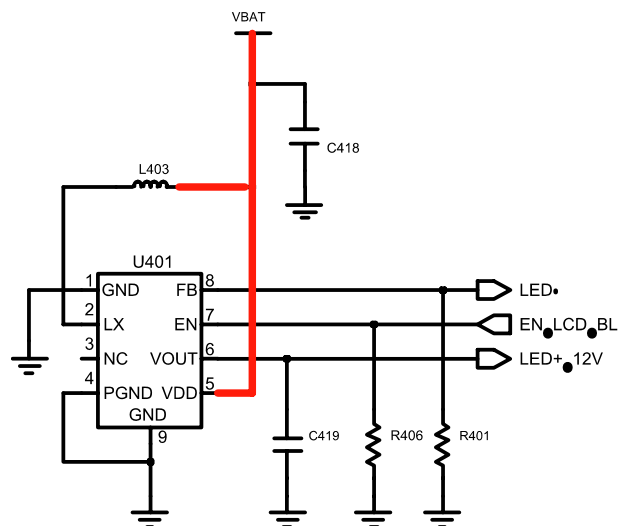
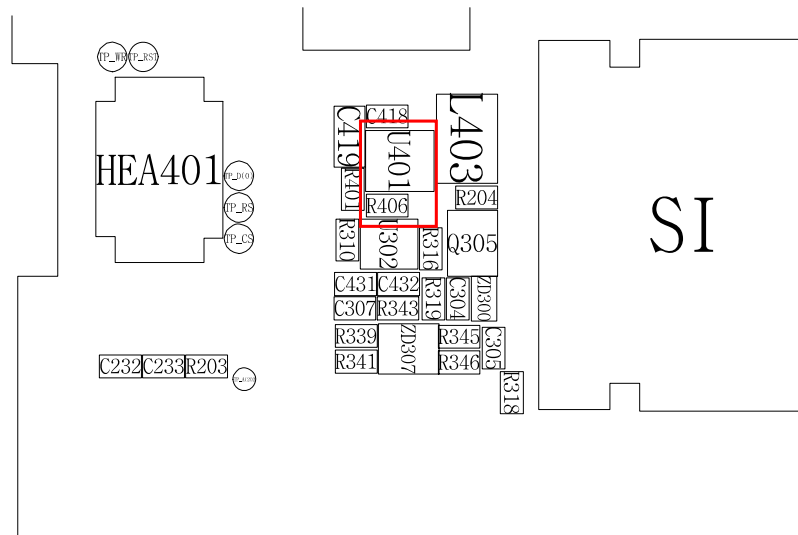
### 8-3-7. Key Data Input



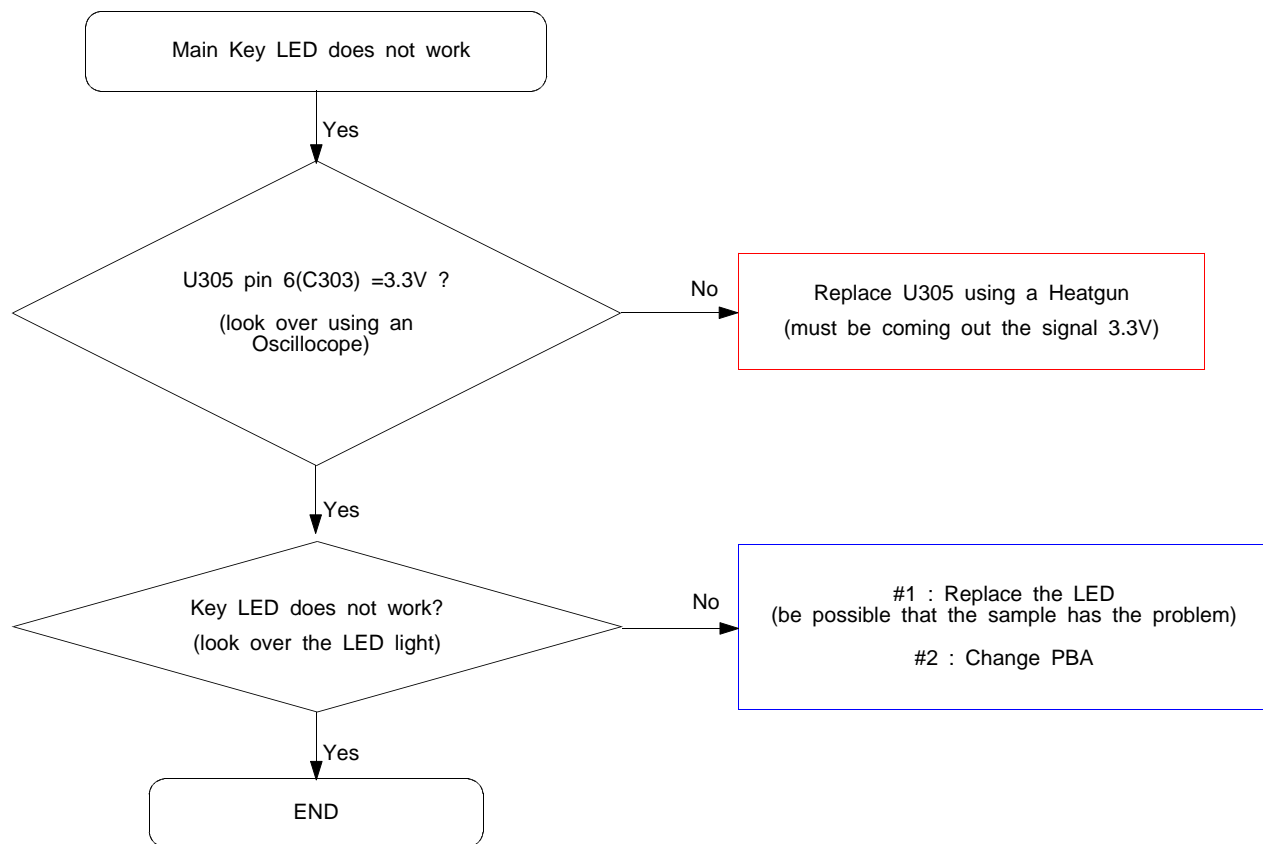


### 8-3-8. Back Light (for Color Main LCD)

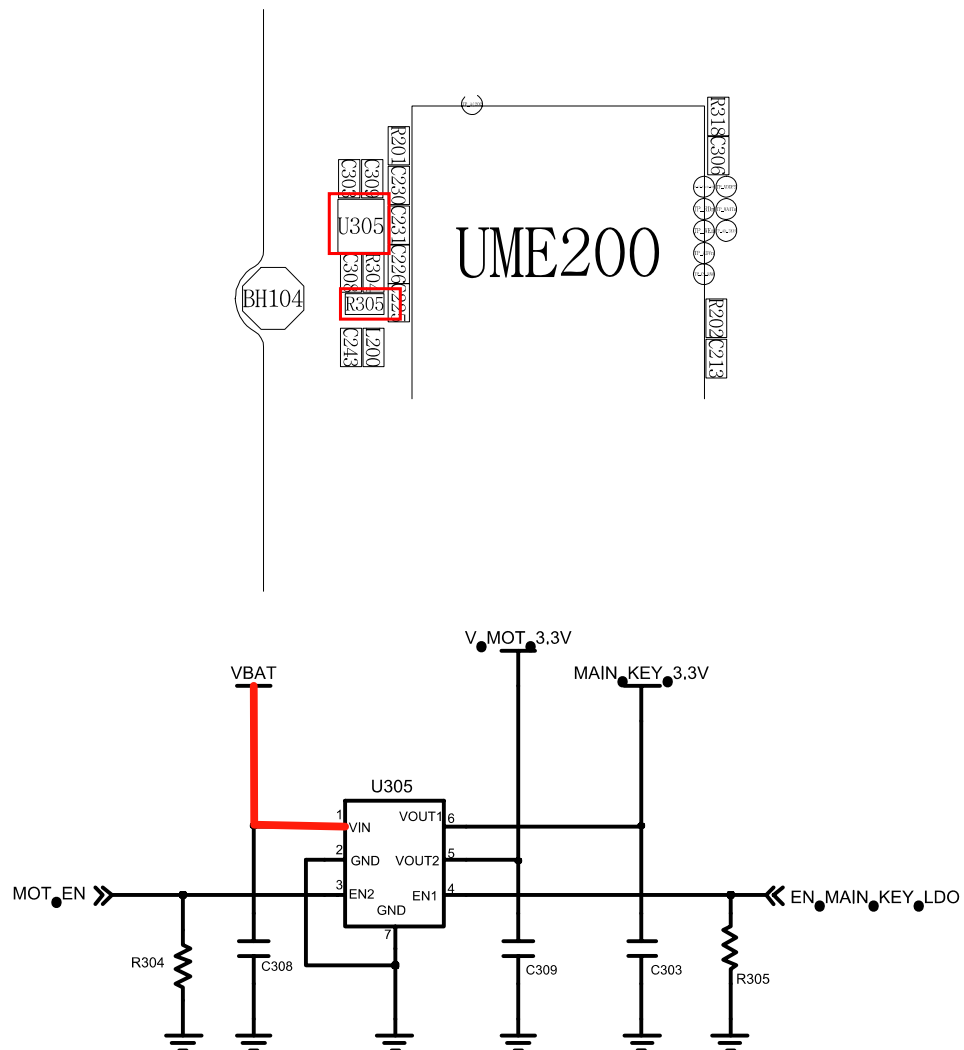




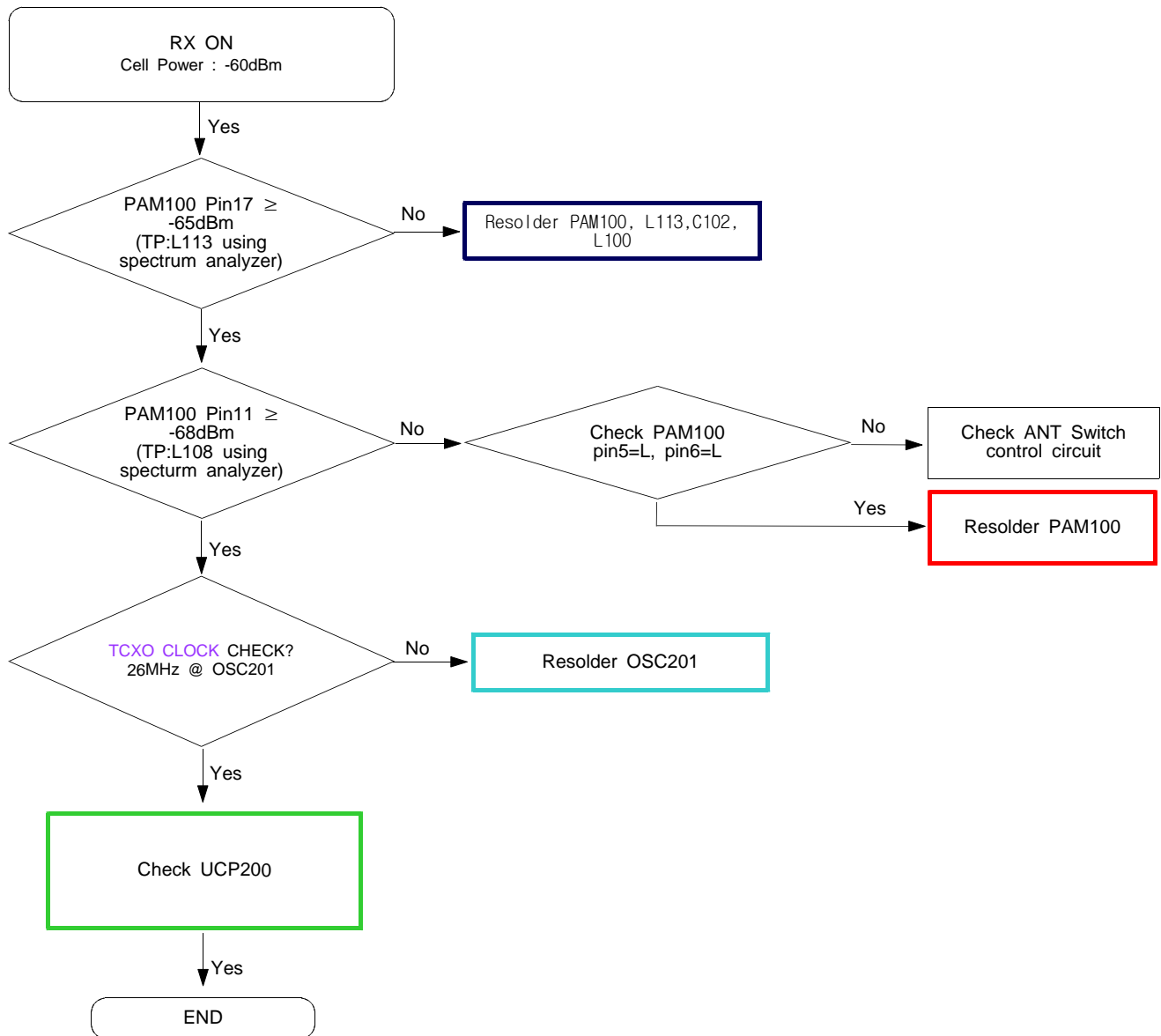
### 8-3-9. Key Back Light



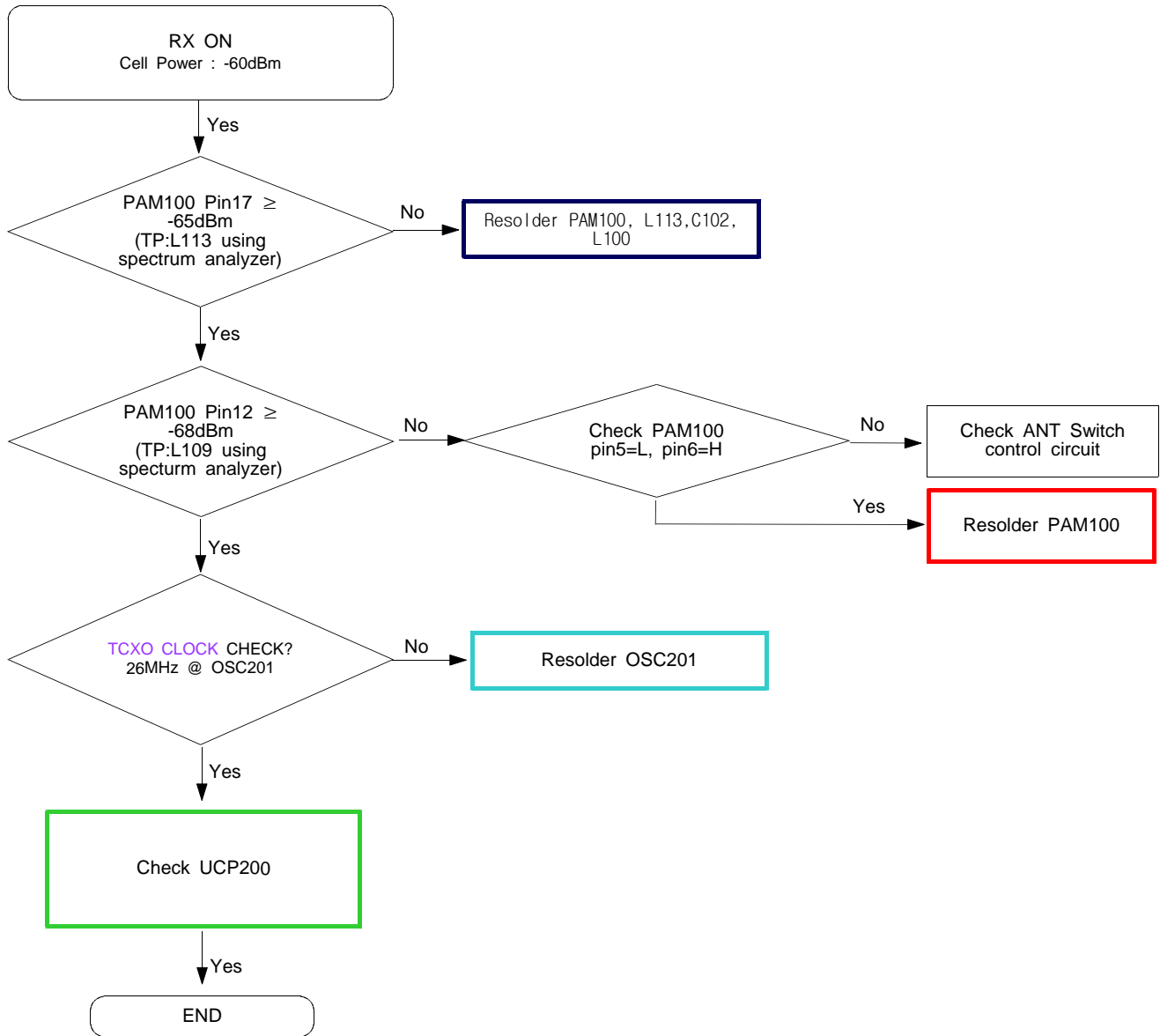




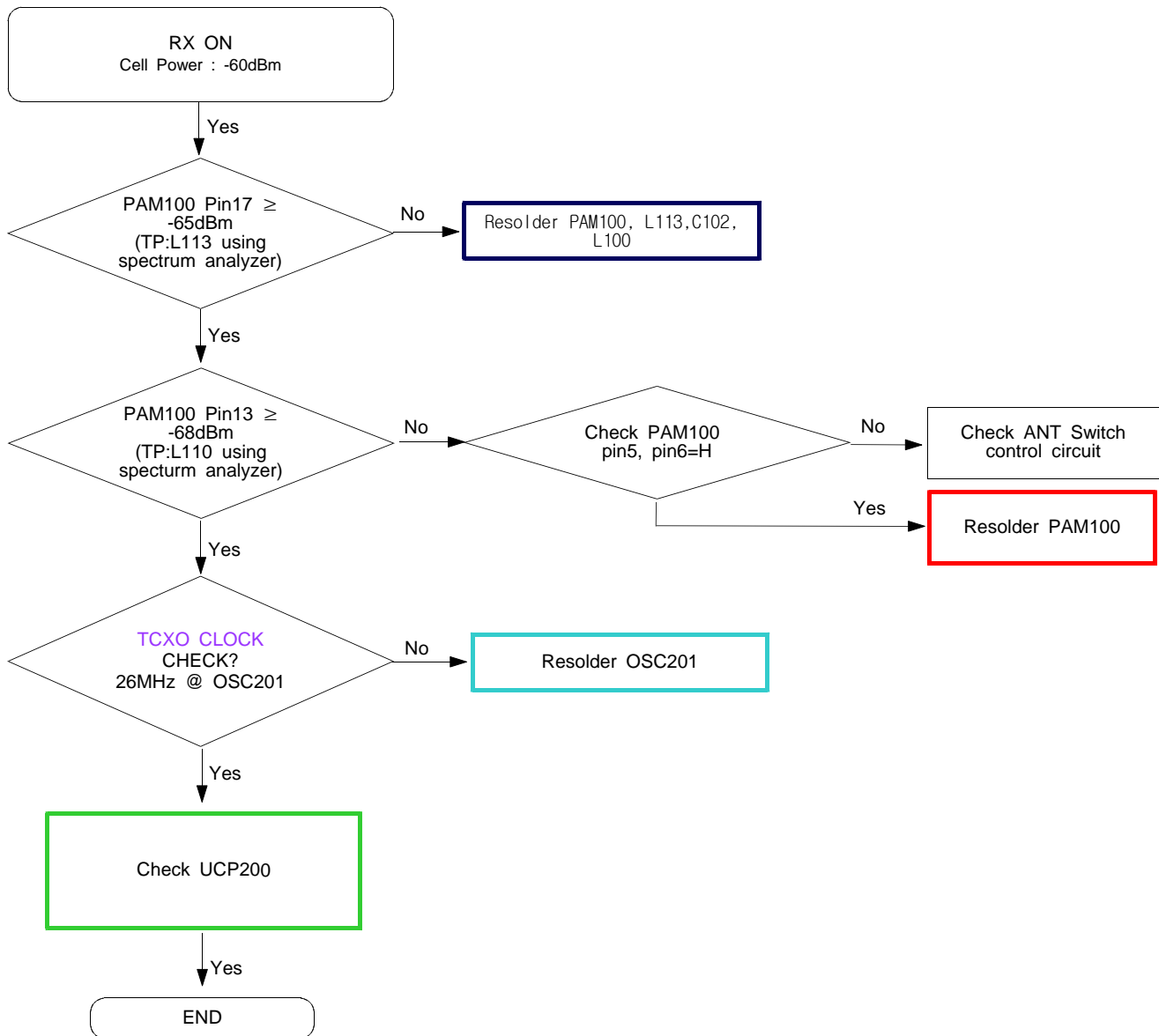
## 8-3-10. GSM850 Receiver



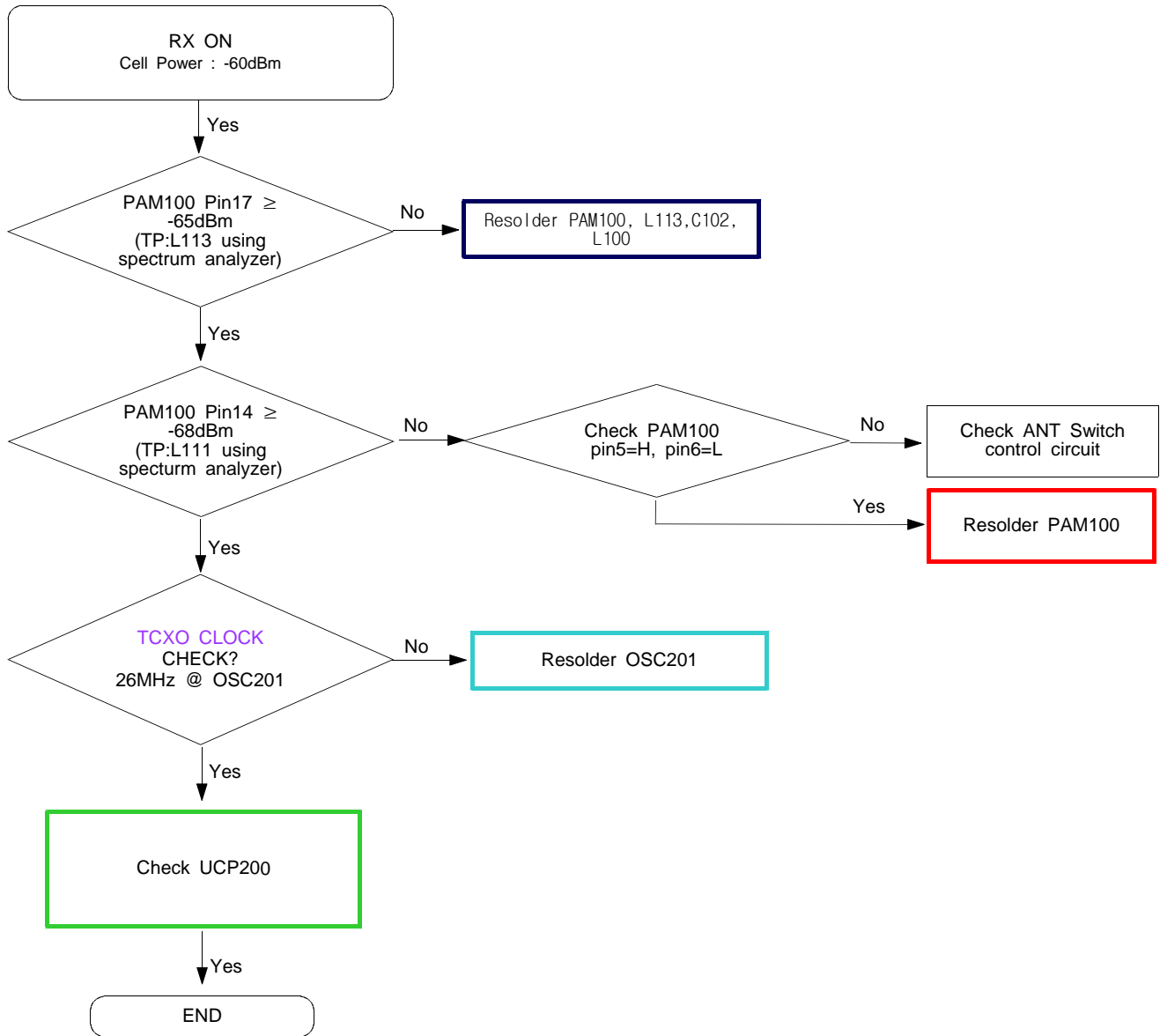
### 8-3-11. GSM900 Receiver

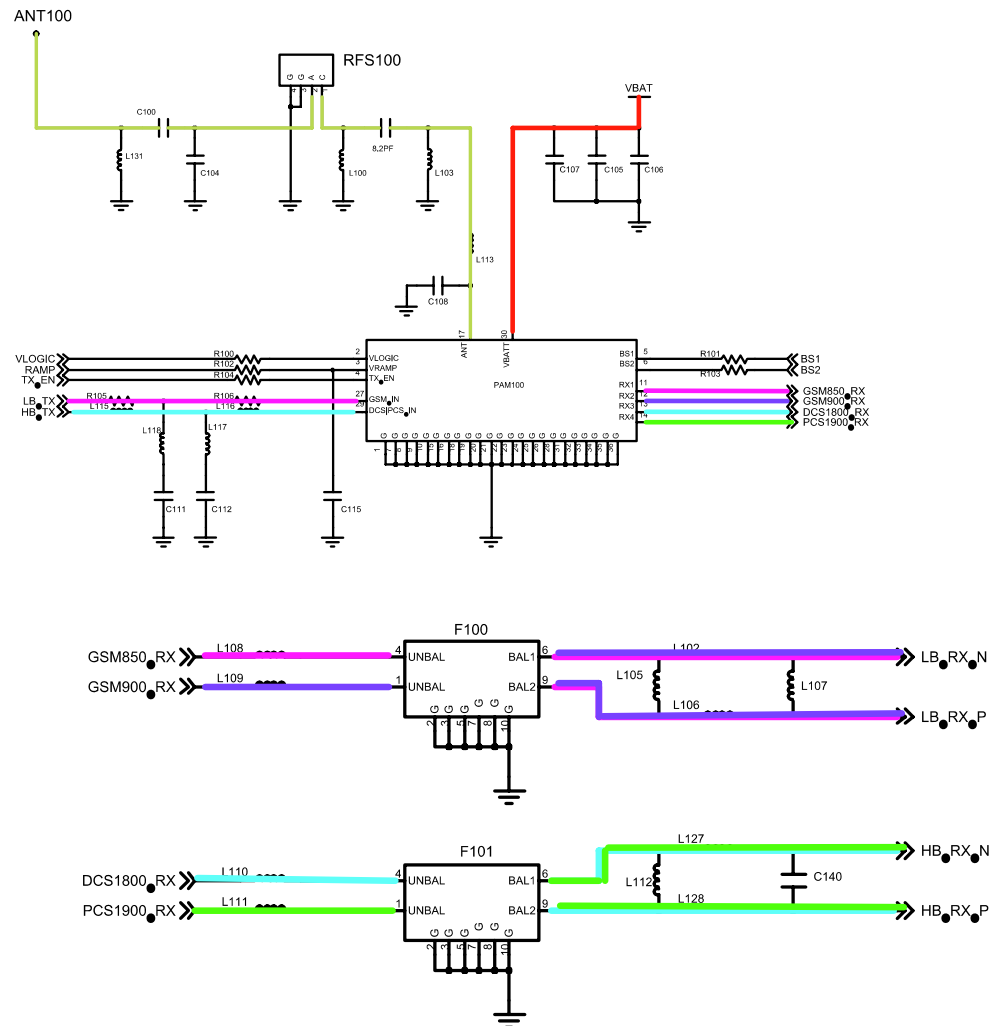


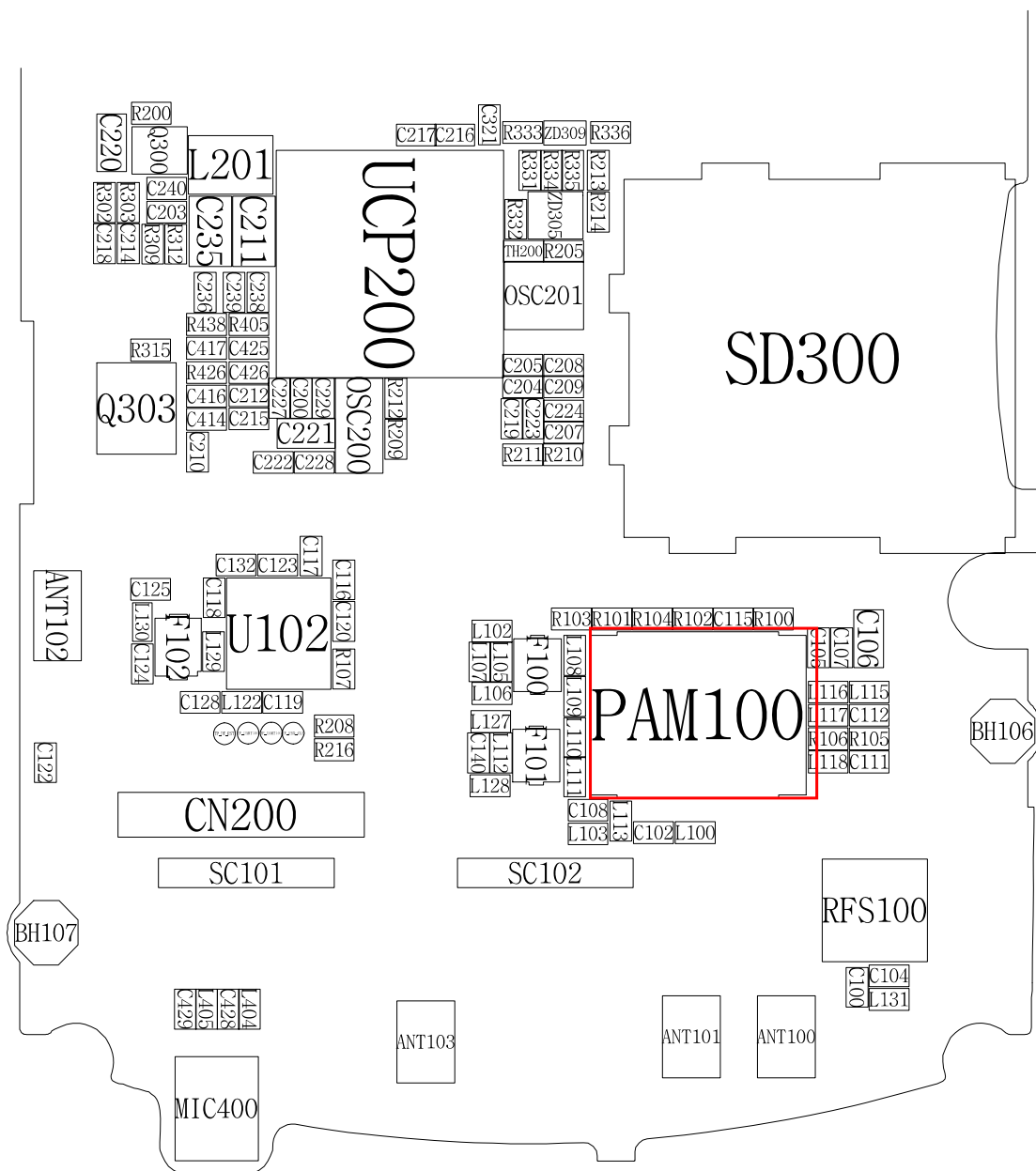
## 8-3-12. DCS Receiver



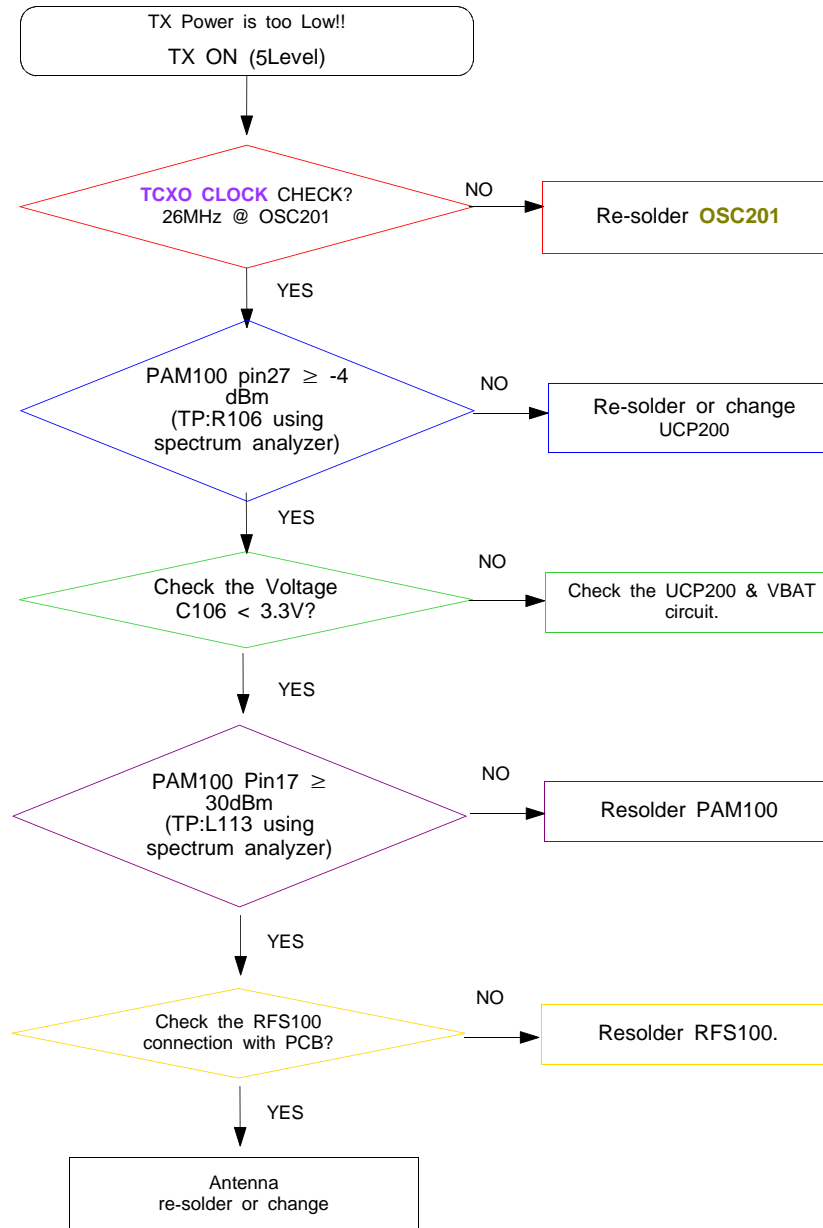
### 8-3-13. PCS Receiver





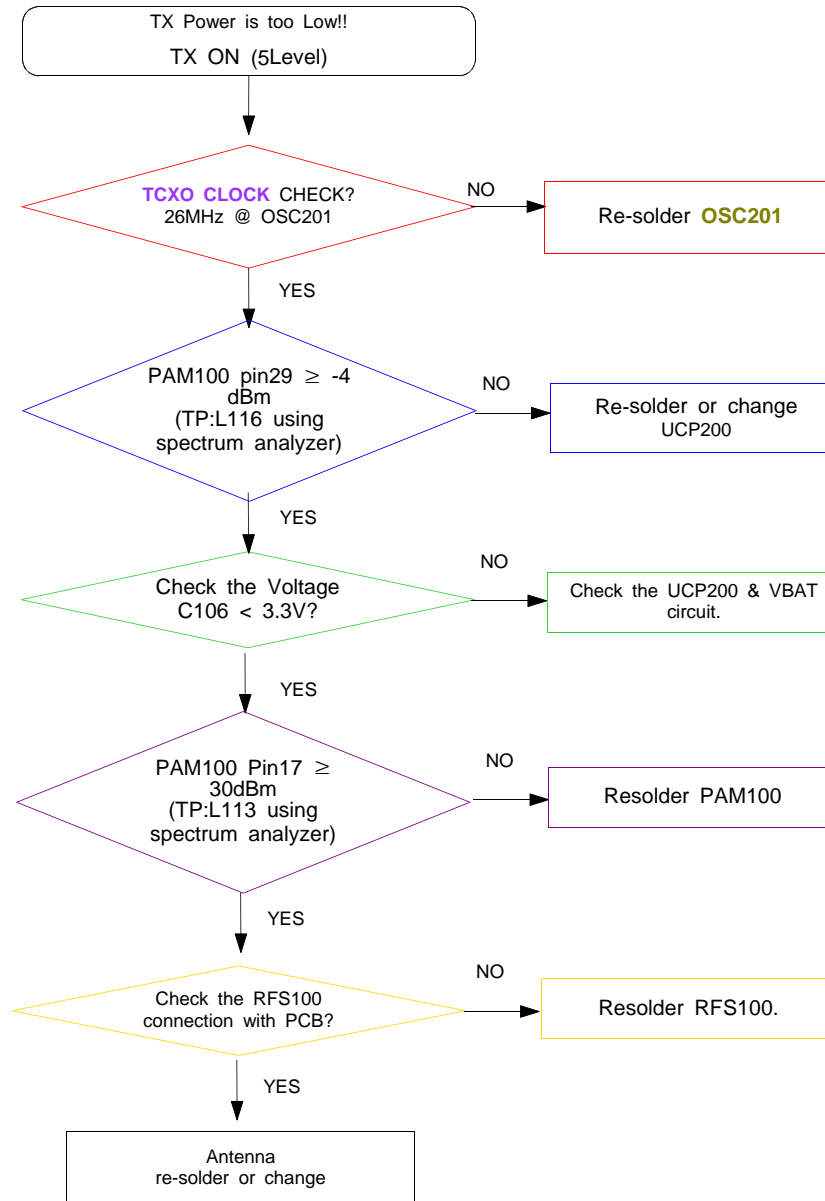


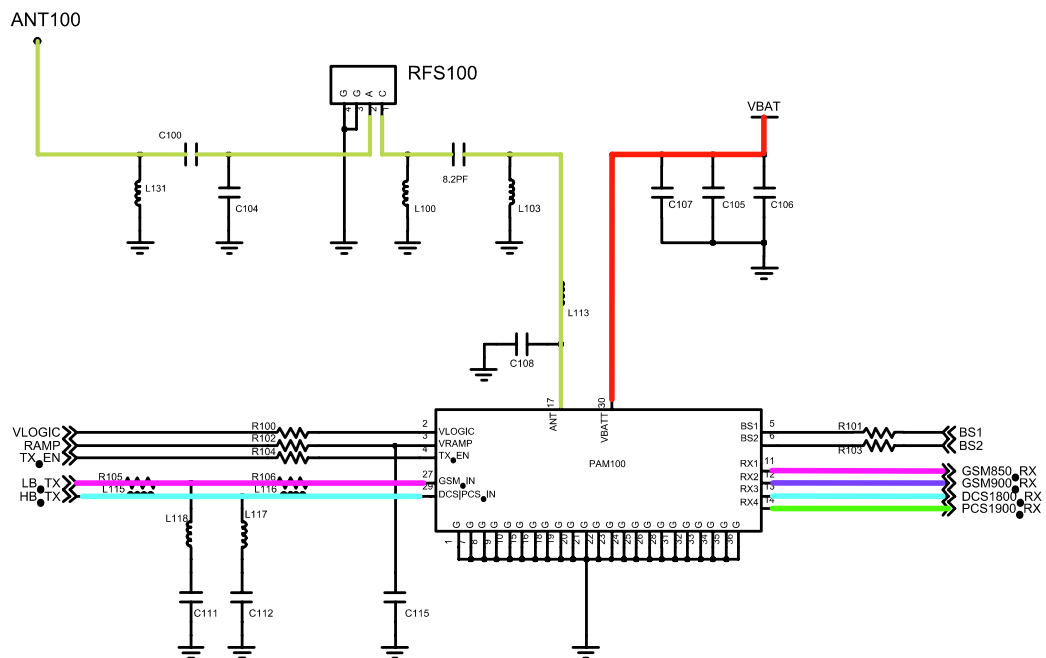
## 8-3-14. GSM850/GSM900 Transmitter

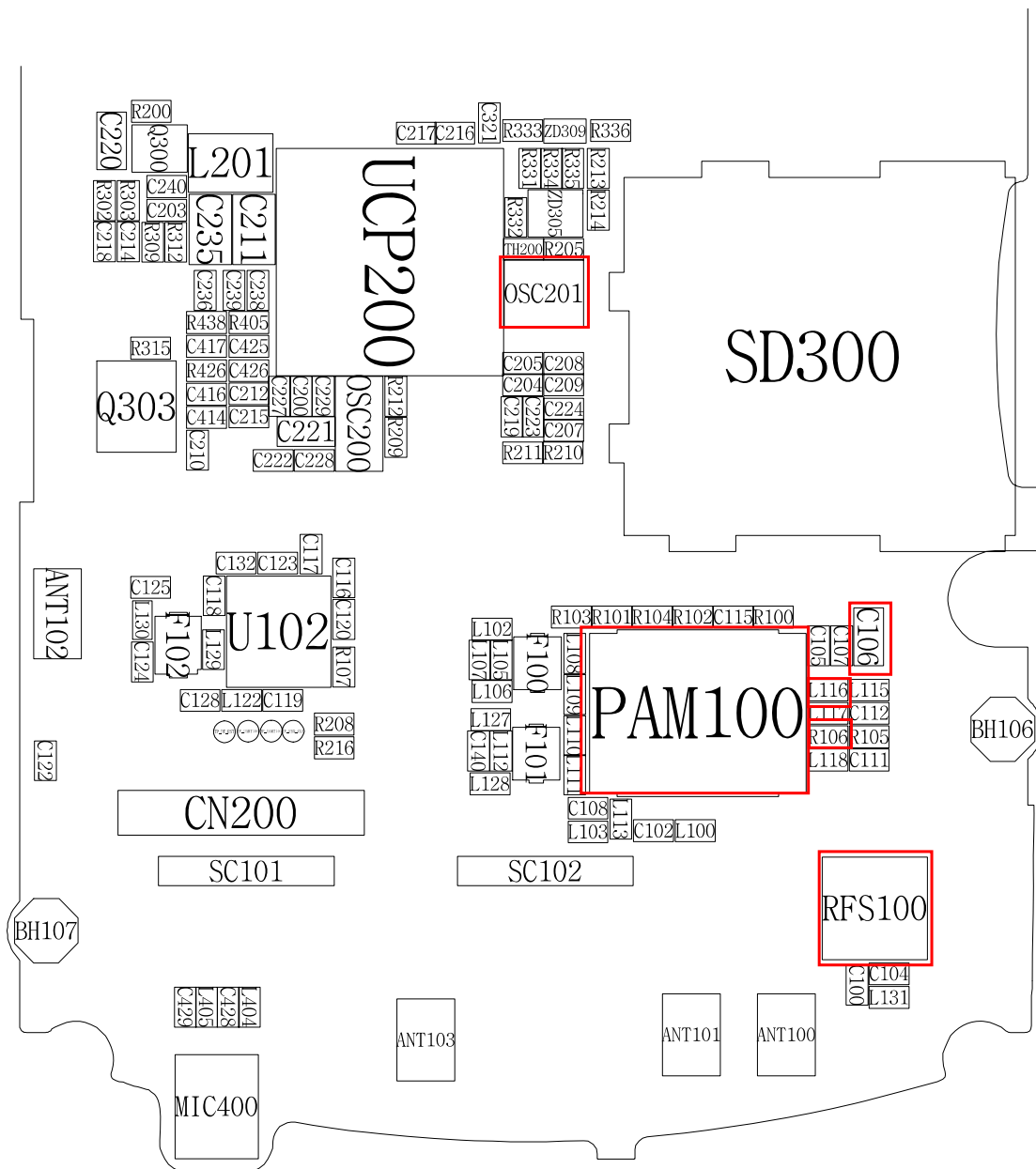




### 8-3-15. DCS/PCS Transmitter







## 8-4. Service Schematics

**- NC Point(Top View)**

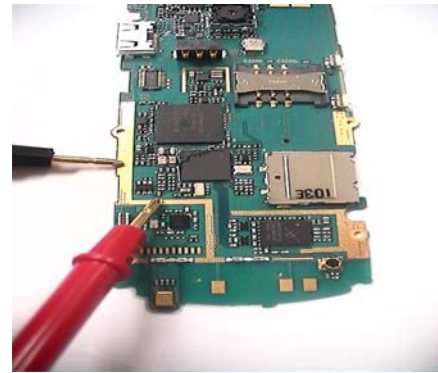
● : NC

**U101**

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

**UME200**

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



# UCP200

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

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