

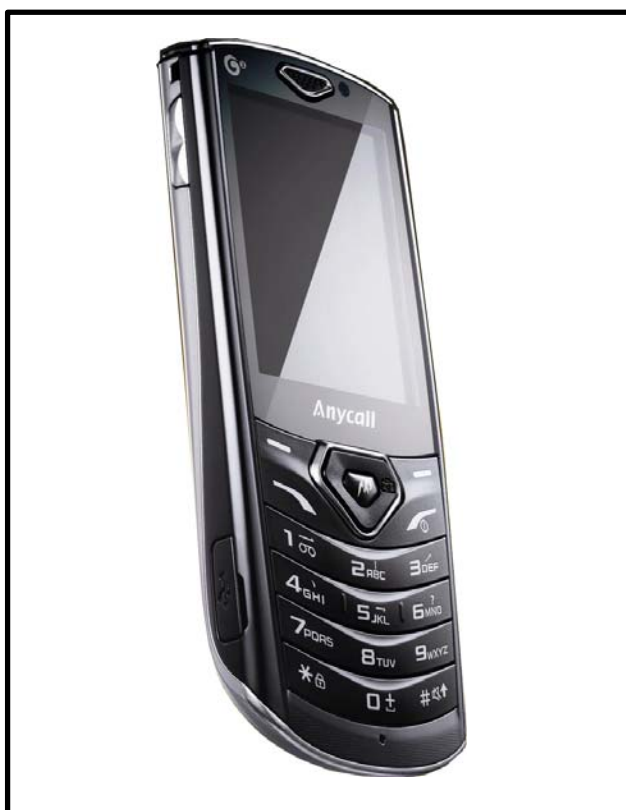
**SAMSUNG**

# **GSM TELEPHONE**

## **GT-C3630C**

# ***SERVICE* Manual**

### **GSM TELEPHONE**



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**SAMSUNG  
ELECTRONICS**



GSPN (Global Service Partner Network)

Country	Web Site
North America	<a href="http://service.samsungportal.com">service.samsungportal.com</a>
Latin America	<a href="http://latin.samsungportal.com">latin.samsungportal.com</a>
CIS	<a href="http://cis.samsungportal.com">cis.samsungportal.com</a>
Europe	<a href="http://europe.samsungportal.com">europe.samsungportal.com</a>
China	<a href="http://china.samsungportal.com">china.samsungportal.com</a>
Asia	<a href="http://asia.samsungportal.com">asia.samsungportal.com</a>
Mideast & Africa	<a href="http://mea.samsungportal.com">mea.samsungportal.com</a>

## 6. MAIN Electrical Parts List

SEC CODE	Design LOC	Description
0403-001688	ZD605,ZD607	DIODE-ZENER
0404-001172	ZD504	DIODE-SCHOTTKY
0406-001201	ZD606	DIODE-TVS
0406-001261	ZD610	DIODE-TVS
0406-001267	ZD502,ZD503,ZD604	DIODE-TVS
0406-001267	ZD608,ZD609,ZD611	DIODE-TVS
0406-001286	ZD603	DIODE-TVS
0406-001293	ZD501	DIODE-TVS
0406-001375	ZD506,ZD507,ZD804	DIODE-TVS
0504-001151	Q401,U203,U205	TR-DIGITAL
0601-002070	LED603,LED604,LED605	LED
0601-002070	LED606,LED607,LED608	LED
0801-003022	U107	IC
0801-003139	U102,U104,U105	IC
1001-001459	U503	IC
1001-001586	U603	IC
1201-002764	U501	IC
1201-002765	PAM201	IC
1201-002773	PAM101	IC
1203-004291	U602	IC
1203-004792	U403	IC
1203-005069	U302	IC
1203-005250	U601	IC
1203-005501	U606	IC
1203-005512	U502	IC
1203-005675	U301	IC
1204-003022	U201	IC
1205-003517	U204	IC
1205-003598	U202	IC
1205-003636	U101	IC
1205-003721	U106	IC
1205-003755	UME401	IC
1205-003770	UCP301	IC
1404-001224	VR401	THERMISTOR
2007-000138	R606,R631,R638,R639	R-CHIP
2007-000138	R640,R641,R642	R-CHIP
2007-000140	R201,R415,R611	R-CHIP
2007-000148	R301,R306,R420,R607	R-CHIP
2007-000149	R423	R-CHIP
2007-000151	R421	R-CHIP
2007-000152	R621	R-CHIP
2007-000162	R303,R307,R417,R422	R-CHIP
2007-000173	R311,R618	R-CHIP
2007-000242	R504	R-CHIP

SEC CODE	Design LOC	Description
2007-000249	R304	R-CHIP
2007-000566	R308,R309	R-CHIP
2007-000831	R401	R-CHIP
2007-001119	R612,R613,R615,R617	R-CHIP
2007-001119	R619,R628	R-CHIP
2007-001291	R608,R609	R-CHIP
2007-001292	R505,R506	R-CHIP
2007-001306	R510,R512	R-CHIP
2007-001319	R408,R409,R629,R630	R-CHIP
2007-001333	R404,R605	R-CHIP
2007-002796	R503	R-CHIP
2007-003001	R508,R509	R-CHIP
2007-003006	R634,R635	R-CHIP
2007-003010	R418	R-CHIP
2007-003015	R203	R-CHIP
2007-007009	R624,R625,R626,R627	R-CHIP
2007-007009	R632,R633	R-CHIP
2007-007107	R202,R206,R402	R-CHIP
2007-007134	R305	R-CHIP
2007-007136	R107	R-CHIP
2007-007142	R302,R403,R620	R-CHIP
2007-007306	R113	R-CHIP
2007-007308	R406	R-CHIP
2007-007491	R115	R-CHIP
2007-007573	R614	R-CHIP
2007-007627	R610	R-CHIP
2007-008045	R106,R116,R637	R-CHIP
2007-008052	R110	R-CHIP
2007-008055	R204	R-CHIP
2007-008354	R616	R-CHIP
2007-008483	R207	R-CHIP
2007-008516	R405,R507	R-CHIP
2007-008547	R101,R102,R103,R104	R-CHIP
2007-009374	R114	R-CHIP
2007-009801	R111	R-CHIP
2203-000138	C624	C-CERAMIC,CHIP
2203-000233	C142,C336	C-CERAMIC,CHIP
2203-000254	C207,C227,C528,C626	C-CERAMIC,CHIP
2203-000330	C338	C-CERAMIC,CHIP
2203-000386	C208,C212,C228,C337	C-CERAMIC,CHIP
2203-000386	C504,C507,C511,C617	C-CERAMIC,CHIP
2203-000386	C618	C-CERAMIC,CHIP
2203-000438	C216,C218	C-CERAMIC,CHIP
2203-000679	C640,C641,C642,C643	C-CERAMIC,CHIP

SEC CODE	Design LOC	Description
2203-000696	C140	C-CERAMIC,CHIP
2203-000812	C104,C108,C110,C114	C-CERAMIC,CHIP
2203-000812	C125,C126,C141,C402	C-CERAMIC,CHIP
2203-000812	C425,C523,C525,C526	C-CERAMIC,CHIP
2203-000812	C530,C531,C621	C-CERAMIC,CHIP
2203-000854	C226,C230,C421	C-CERAMIC,CHIP
2203-001153	C505,C508,C512,C539	C-CERAMIC,CHIP
2203-001153	C616,C619,C620	C-CERAMIC,CHIP
2203-001210	C517,C519	C-CERAMIC,CHIP
2203-001239	C118	C-CERAMIC,CHIP
2203-002487	C625	C-CERAMIC,CHIP
2203-002668	C132	C-CERAMIC,CHIP
2203-002709	C333,C401,C403,C404	C-CERAMIC,CHIP
2203-002709	C405,C406,C407,C408	C-CERAMIC,CHIP
2203-002709	C409,C410,C411,C412	C-CERAMIC,CHIP
2203-002709	C413,C414,C415,C416	C-CERAMIC,CHIP
2203-002709	C623	C-CERAMIC,CHIP
2203-005050	C120,C121,C233	C-CERAMIC,CHIP
2203-005234	C124,C127	C-CERAMIC,CHIP
2203-005281	C102,C214	C-CERAMIC,CHIP
2203-005288	L208	C-CERAMIC,CHIP
2203-005395	C229	C-CERAMIC,CHIP
2203-005446	C116,C117	C-CERAMIC,CHIP
2203-005450	C234	C-CERAMIC,CHIP
2203-005682	C111,C136,C139	C-CERAMIC,CHIP
2203-005717	C644,C645	C-CERAMIC,CHIP
2203-005729	C219	C-CERAMIC,CHIP
2203-005777	C232	C-CERAMIC,CHIP
2203-005806	C144,C145	C-CERAMIC,CHIP
2203-006048	C107,C304,C306,C308	C-CERAMIC,CHIP
2203-006048	C309,C334,C339,C506	C-CERAMIC,CHIP
2203-006048	C513,C601,C602,C603	C-CERAMIC,CHIP
2203-006048	C622,C632,C633,C634	C-CERAMIC,CHIP
2203-006120	C122	C-CERAMIC,CHIP
2203-006121	C105,C106	C-CERAMIC,CHIP
2203-006137	C133,C134	C-CERAMIC,CHIP
2203-006190	C138,C305,C307,C310	C-CERAMIC,CHIP
2203-006190	C419	C-CERAMIC,CHIP
2203-006194	C224	C-CERAMIC,CHIP
2203-006208	C503	C-CERAMIC,CHIP
2203-006257	C202,C204,C303,C311	C-CERAMIC,CHIP
2203-006257	C312,C313,C314,C315	C-CERAMIC,CHIP
2203-006257	C316,C317,C322,C323	C-CERAMIC,CHIP
2203-006257	C328	C-CERAMIC,CHIP

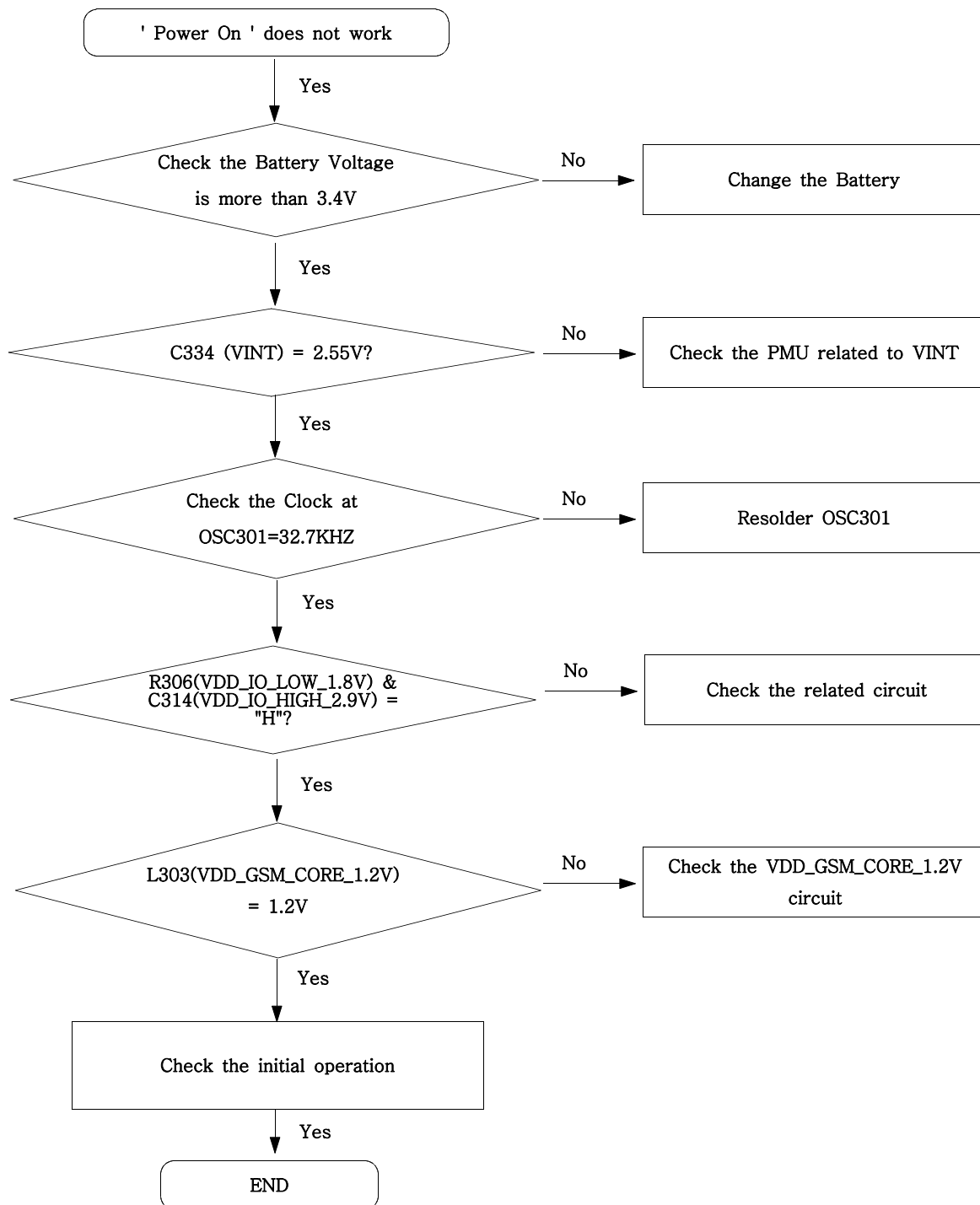
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2203-006324	C335,C613	C-CERAMIC,CHIP
2203-006348	C428	C-CERAMIC,CHIP
2203-006399	C205,C422,C527,C529	C-CERAMIC,CHIP
2203-006423	C128,C135,C146,C222	C-CERAMIC,CHIP
2203-006474	C217,C318,C320,C426	C-CERAMIC,CHIP
2203-006562	C332,C427,C447,C520	C-CERAMIC,CHIP
2203-006648	C143,C221	C-CERAMIC,CHIP
2203-006681	C109,C112,C137,C203	C-CERAMIC,CHIP
2203-006681	C509,C510,C540	C-CERAMIC,CHIP
2203-006824	C215,C321,C324,C325	C-CERAMIC,CHIP
2203-006824	C326,C327,C330	C-CERAMIC,CHIP
2203-006839	C113	C-CERAMIC,CHIP
2203-006841	C341,C342,C537,C612	C-CERAMIC,CHIP
2203-006841	C615	C-CERAMIC,CHIP
2203-006872	C220,C223,C522,C607	C-CERAMIC,CHIP
2203-006872	C608,C610,C611,C614	C-CERAMIC,CHIP
2203-006872	C636	C-CERAMIC,CHIP
2203-006896	C211	C-CERAMIC,CHIP
2203-006979	C231	C-CERAMIC,CHIP
2203-007210	C417,C418	C-CERAMIC,CHIP
2203-007270	C635	C-CERAMIC,CHIP
2203-007271	C343,C344,C609	C-CERAMIC,CHIP
2203-007279	C319,C329,C331,C345	C-CERAMIC,CHIP
2203-007279	C346,C347	C-CERAMIC,CHIP
2203-007317	C201,C206,C210,C213	C-CERAMIC,CHIP
2404-001474	TA201	C-TA,CHIP
2404-001506	TA101,TA602,TA603	C-TA,CHIP
2703-001613	L103	INDUCTOR-SMD
2703-001747	L111,L112,L203	INDUCTOR-SMD
2703-001748	L205	INDUCTOR-SMD
2703-001751	L109,L214	INDUCTOR-SMD
2703-002208	L106,L107,L211	INDUCTOR-SMD
2703-002281	L104,L105	INDUCTOR-SMD
2703-002308	L101	INDUCTOR-SMD
2703-002309	L213,L512,L513	INDUCTOR-SMD
2703-002768	L401	INDUCTOR-SMD
2703-002793	L210	INDUCTOR-SMD
2703-002918	L204	INDUCTOR-SMD
2703-002958	L102	INDUCTOR-SMD
2703-003121	L202	INDUCTOR-SMD
2703-003258	L303	INDUCTOR-SMD
2703-003260	L301	INDUCTOR-SMD

SEC CODE	Design LOC	Description
2703-003274	L207	INDUCTOR-SMD
2703-003533	L304	INDUCTOR-SMD
2703-003534	L605	INDUCTOR-SMD
2801-004339	OSC301	CRYSTAL-UNIT
2809-001303	TCX101	OSCILLATOR-VCTCXO
2901-001370	F603,F604	FILTER-EMI SMD
2901-001376	F601	FILTER-EMI SMD
2901-001429	F602	FILTER-EMI SMD
2909-001320	F201	FILTER-DUPLEXER
2911-000115	U103	FILTER
3003-001138	MIC501	MIC-CONDENSOR
3301-001534	L108	CORE-FERRITE BEAD
3301-001682	L206	CORE-FERRITE BEAD
3301-001729	L201	CORE-FERRITE BEAD
3301-001762	L302	CORE-FERRITE BEAD
3301-001820	L501,L502,L507,L508	CORE-FERRITE BEAD
3301-001820	L509,L510,L516	CORE-FERRITE BEAD
3301-001885	L504,L514,L515,L601	CORE-FERRITE BEAD
3301-001885	L602,L603	CORE-FERRITE BEAD
3301-001912	L604	CORE-FERRITE BEAD
3705-001503	RFS101	CONNECTOR-COAXIAL
3708-001912	HDC501	CONNECTOR-FPC/FFC/PIC
3708-002162	HEA602	CONNECTOR-FH26-31S-0.3SHBW(21)
3708-002222	HDC601	CONNECTOR-FPC/FFC/PIC
3709-001447	SIM401	CONNECTOR-CARD EDGE
3711-006137	BTC601	CONNECTOR-HEADER
3711-006405	HEA801	CONNECTOR-HEADER
3722-002840	IFC601	JACK-PHONE;HY07-AB0700
4202-001463	ANT201	ODBTP3015
4302-001130	BAT301	BATTERY
GH71-08426A	ANT101,ANT102	NPR-CONTACT ANT

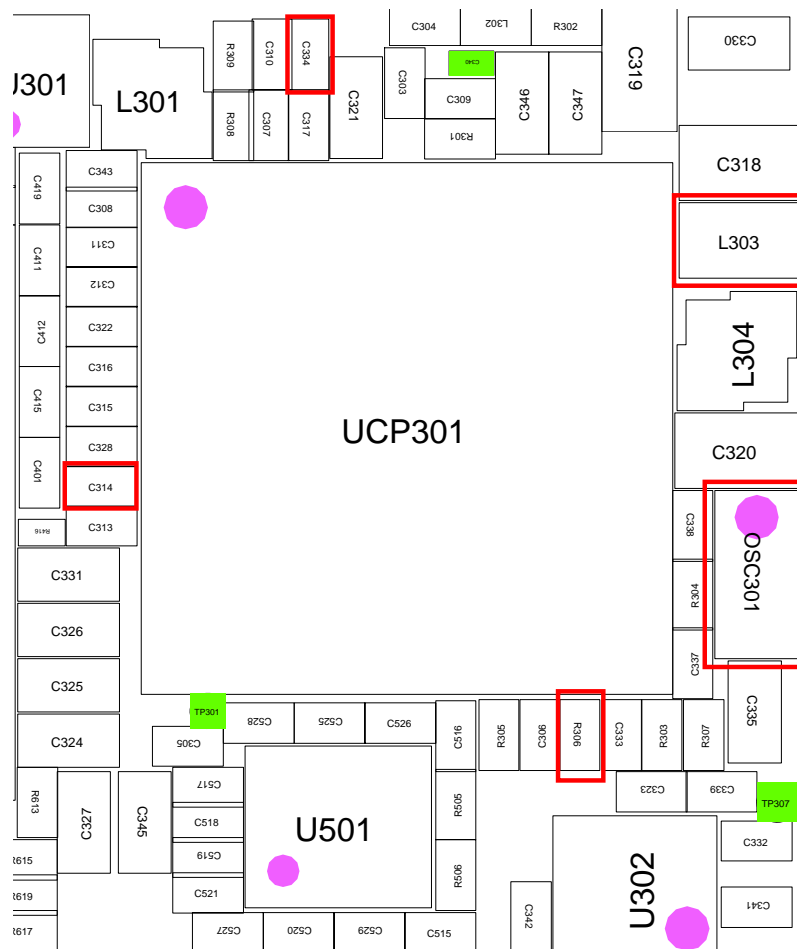
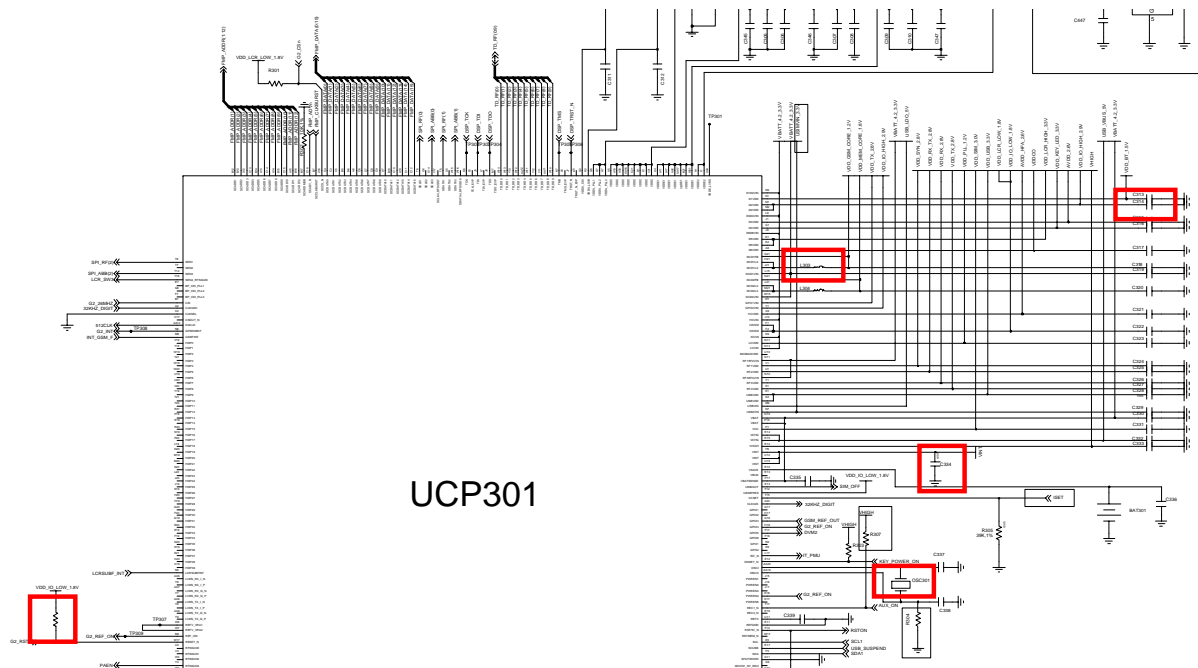
## 9. Flow Chart of Troubleshooting

### 9-1.Baseband

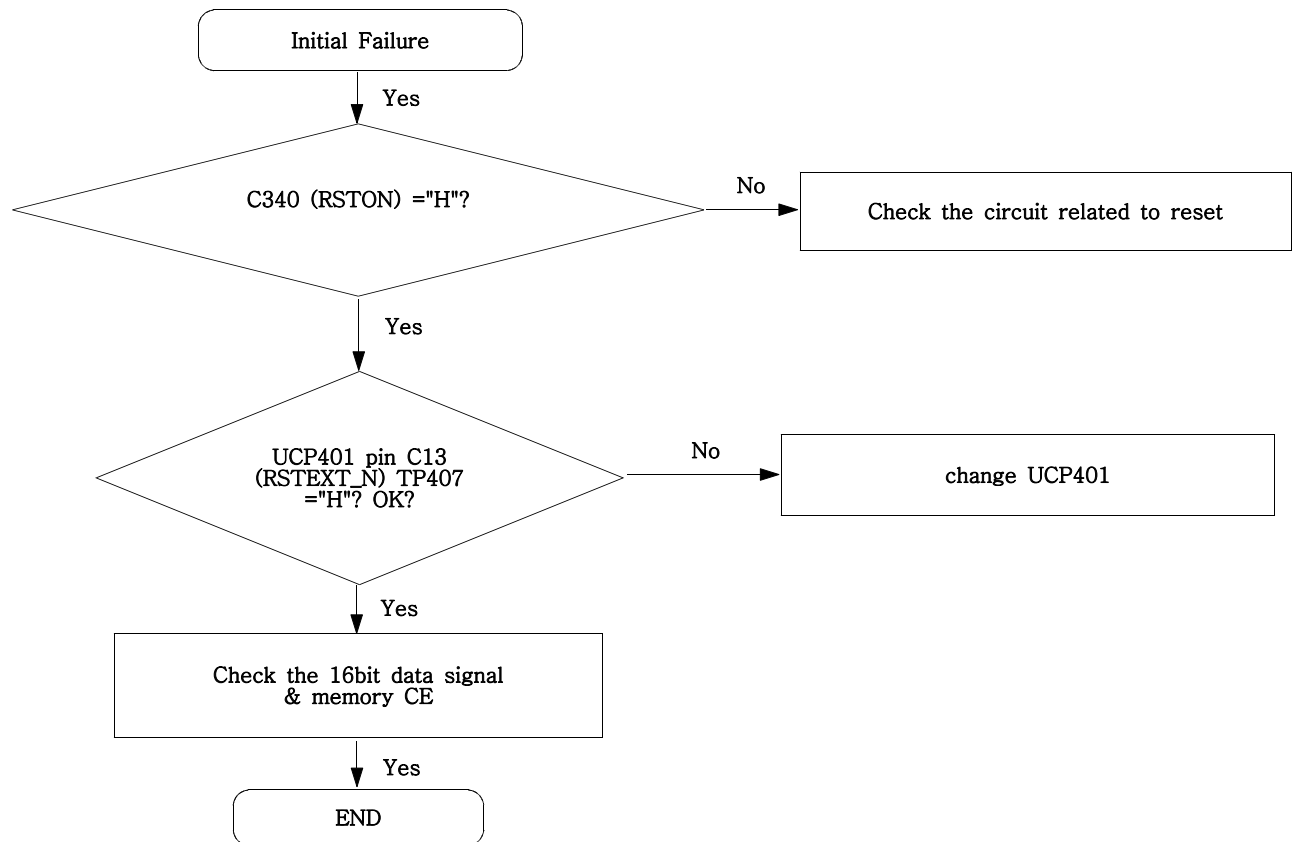
#### 9-1-1Power ON

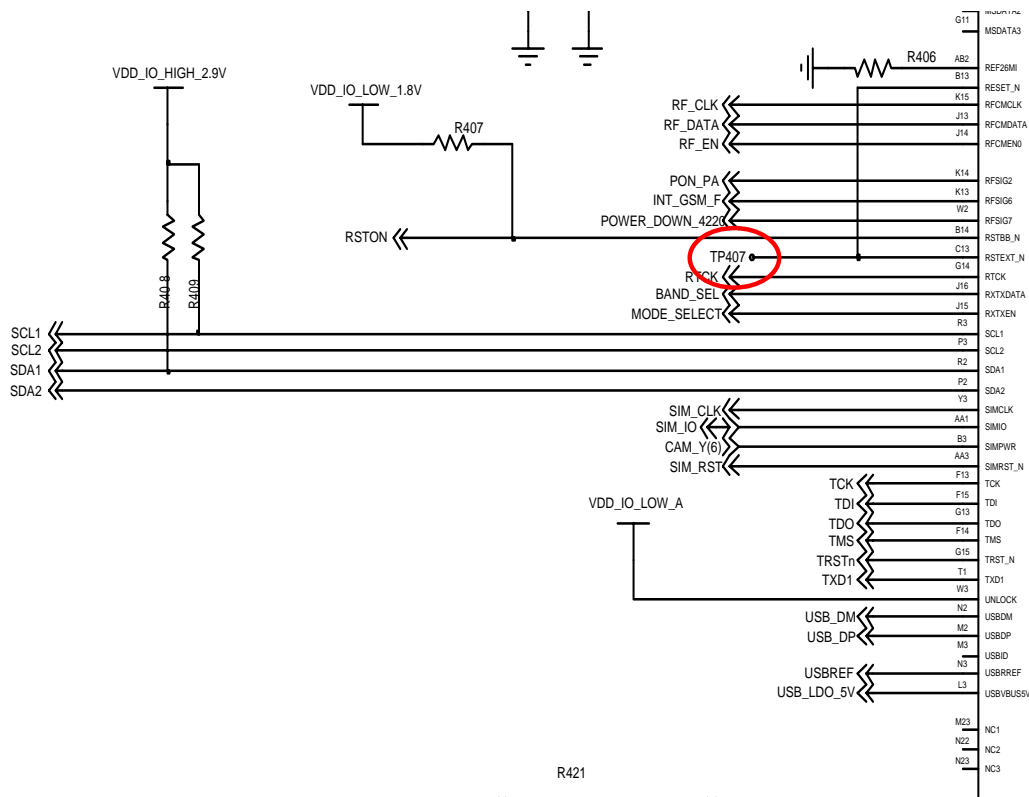
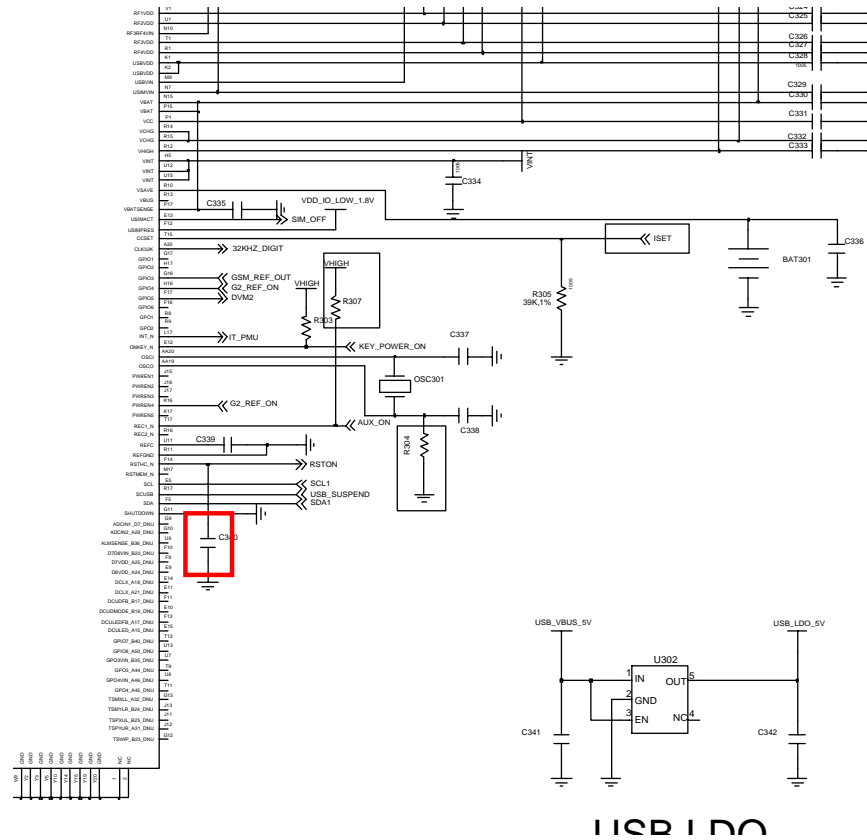


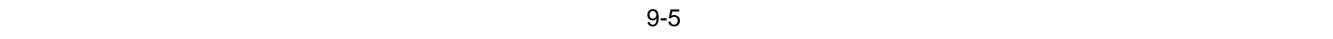


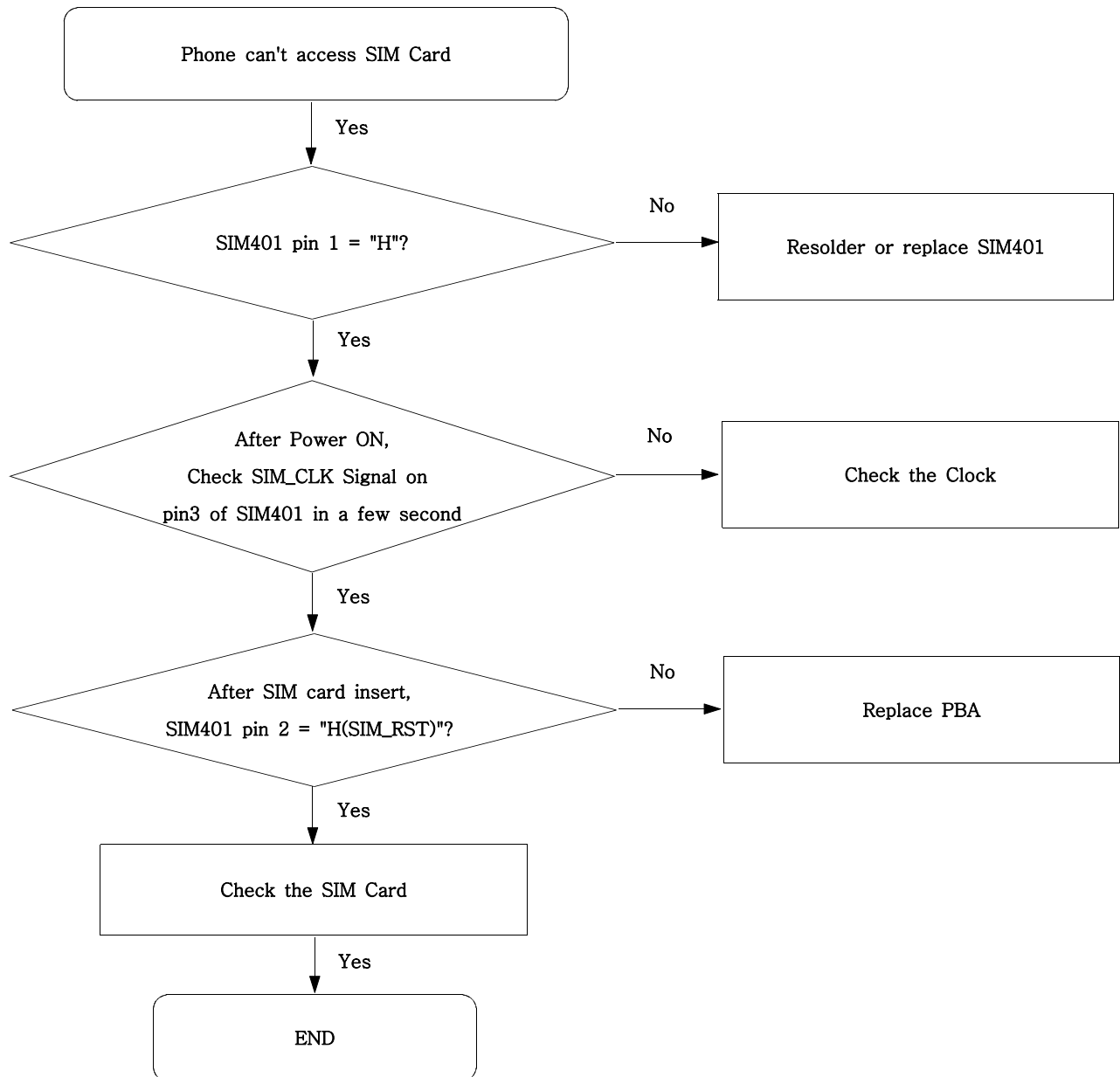


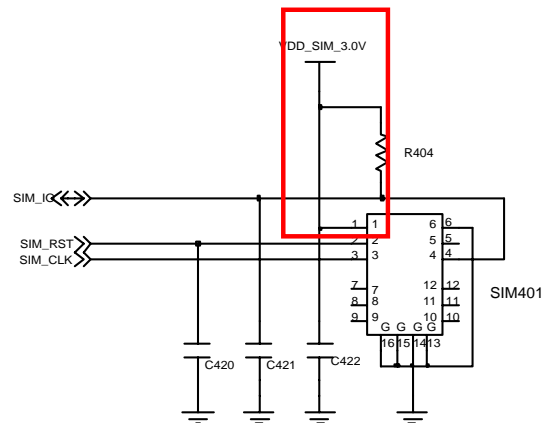
## 9-1-2. Initial



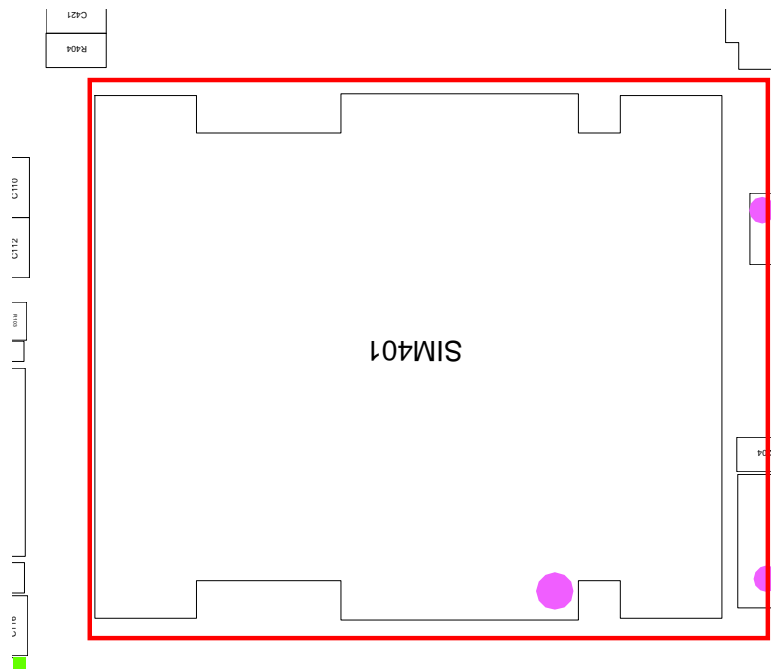




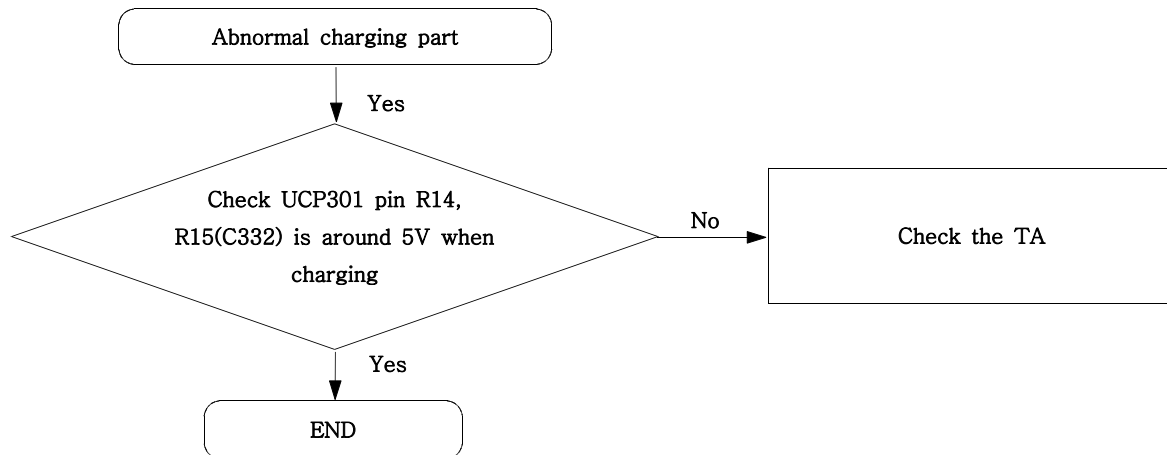
**9-1-3. SIM Part**

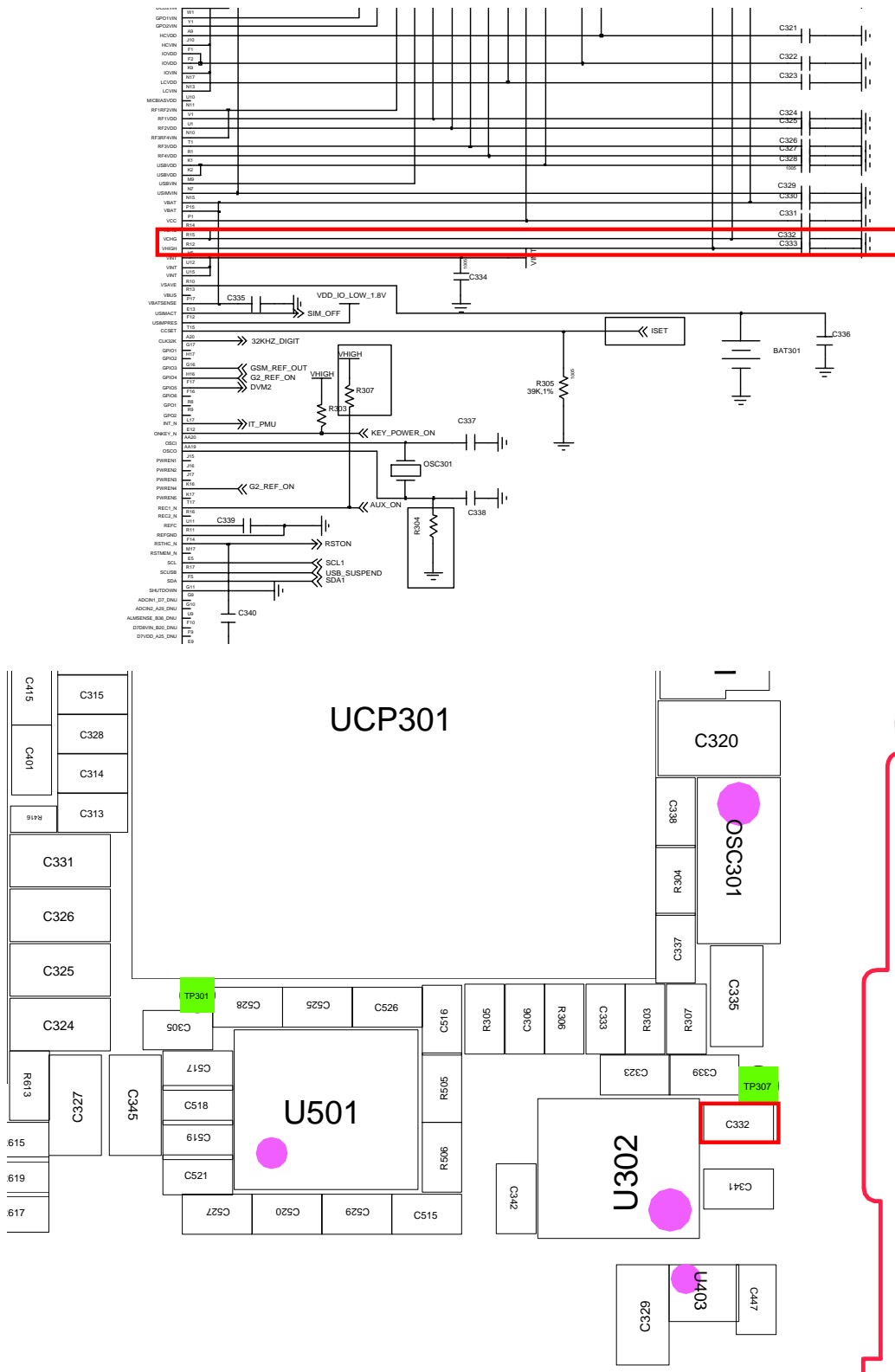


## SIM CON



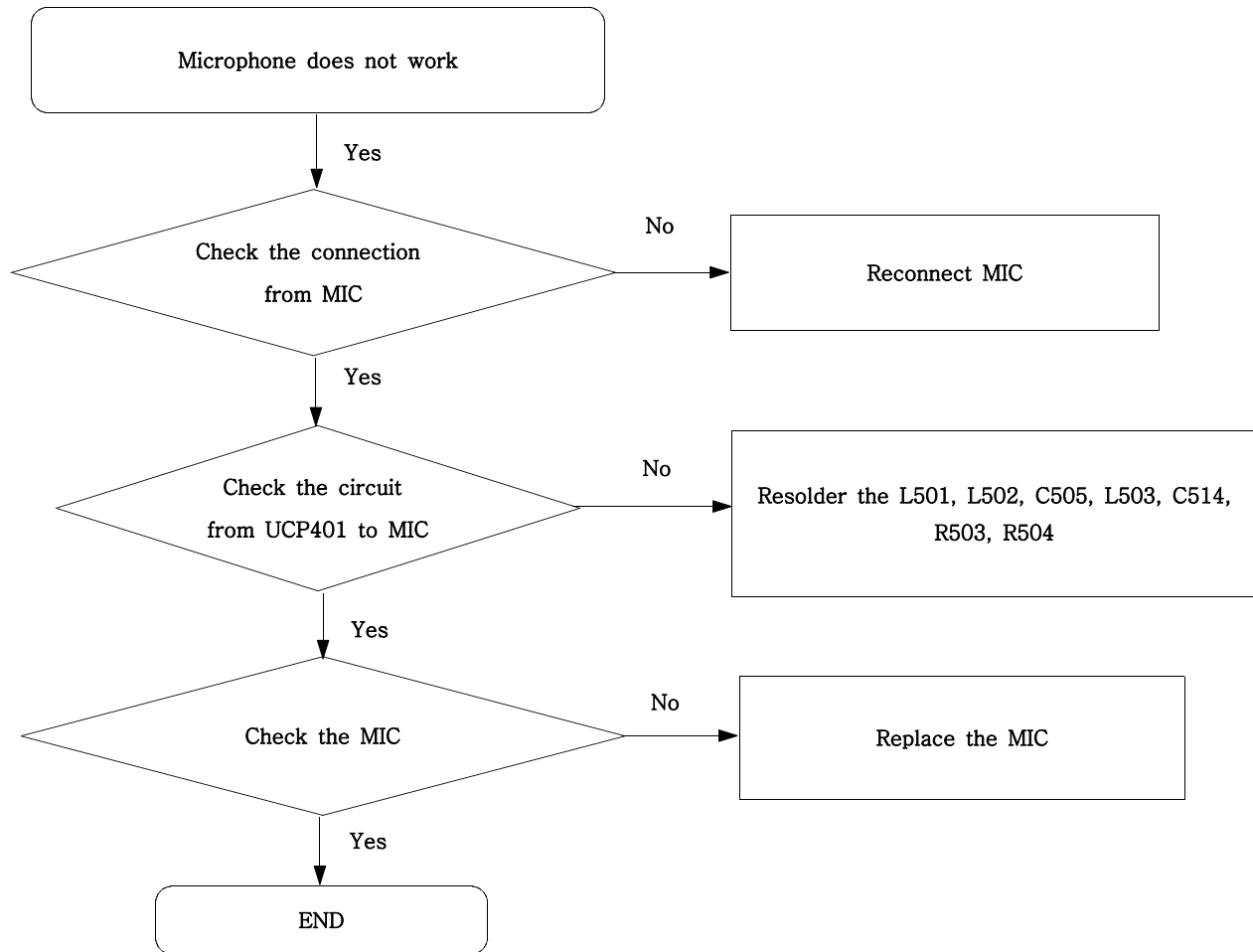
#### 9-1-4. Charging Part

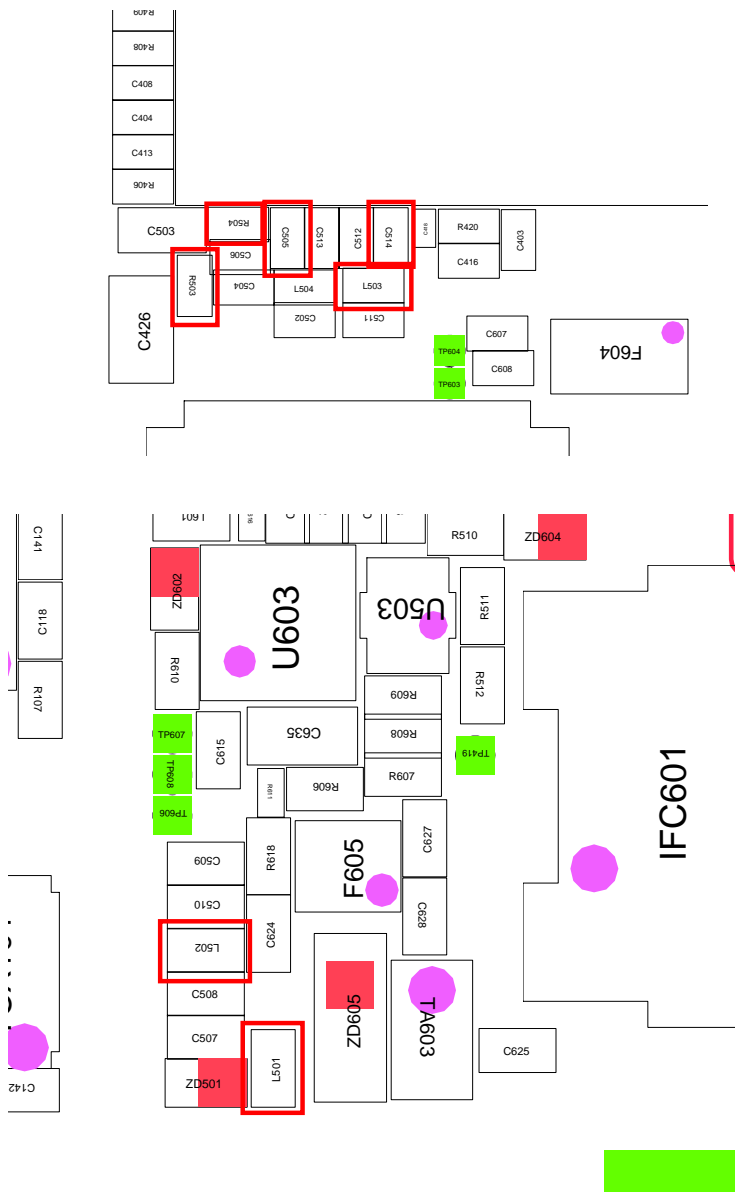
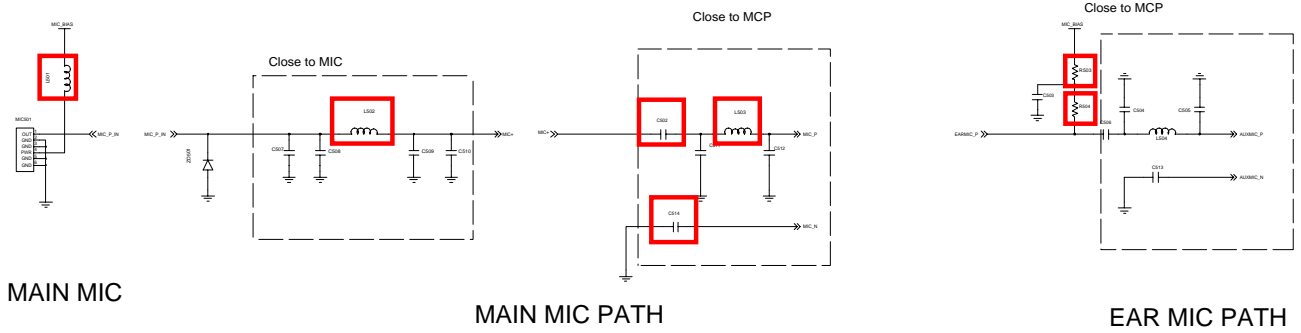


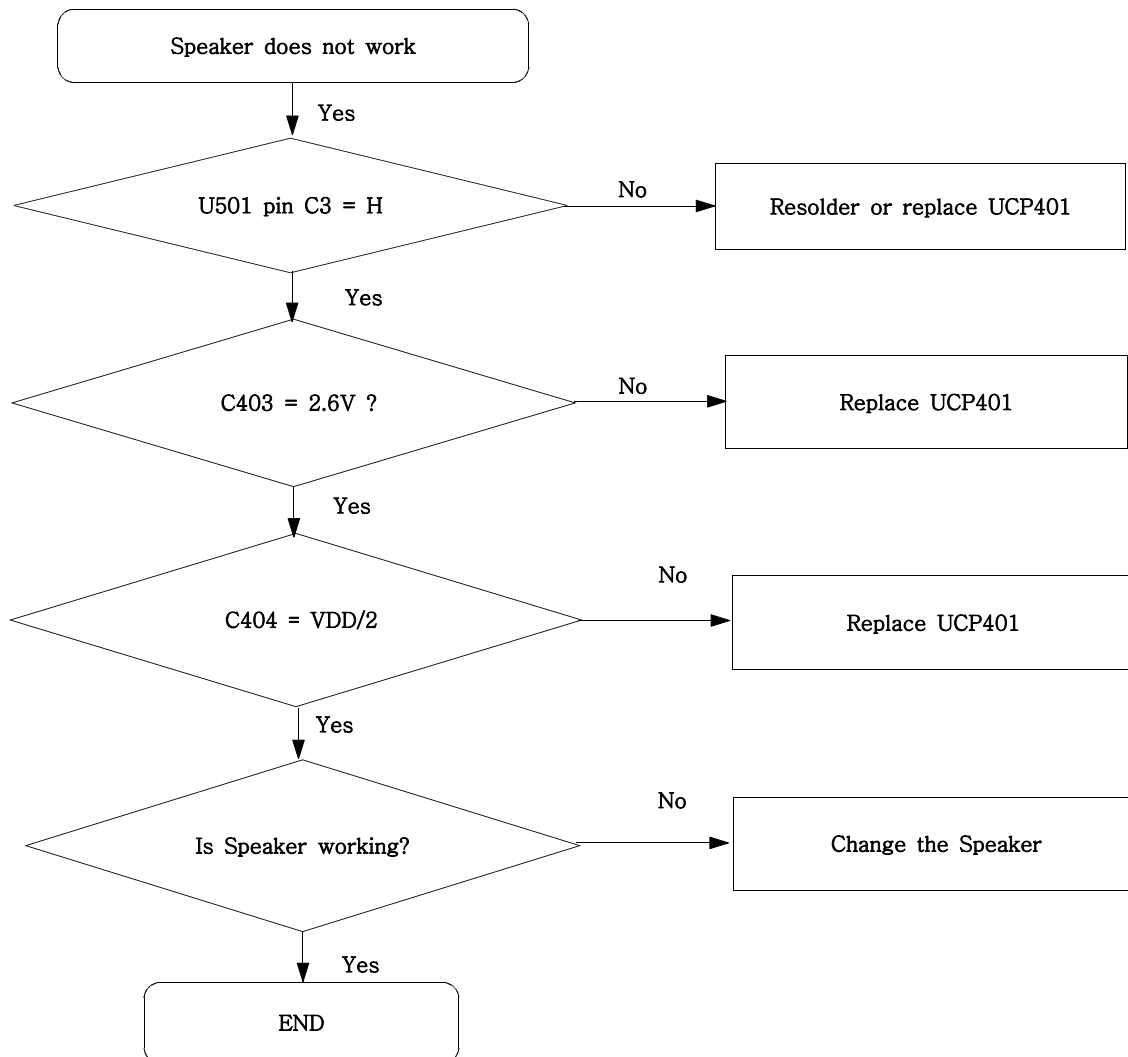


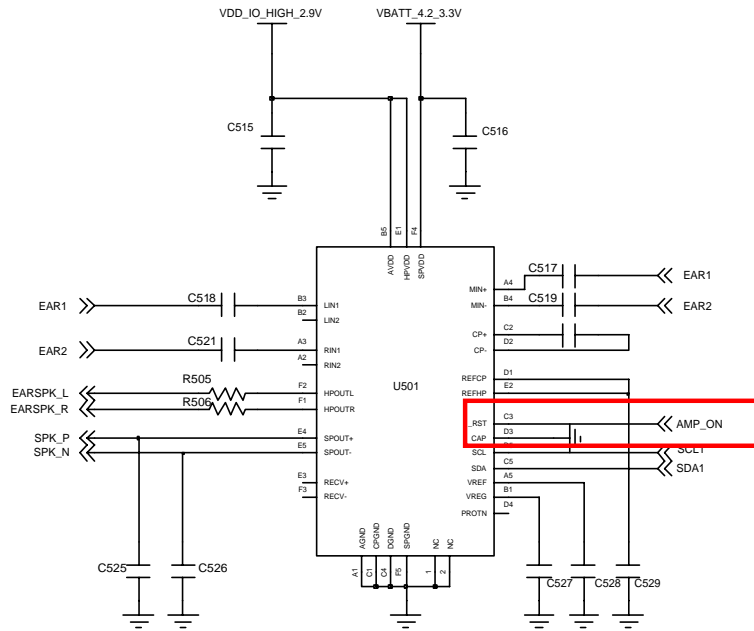


### 9-1-5. Microphone Part

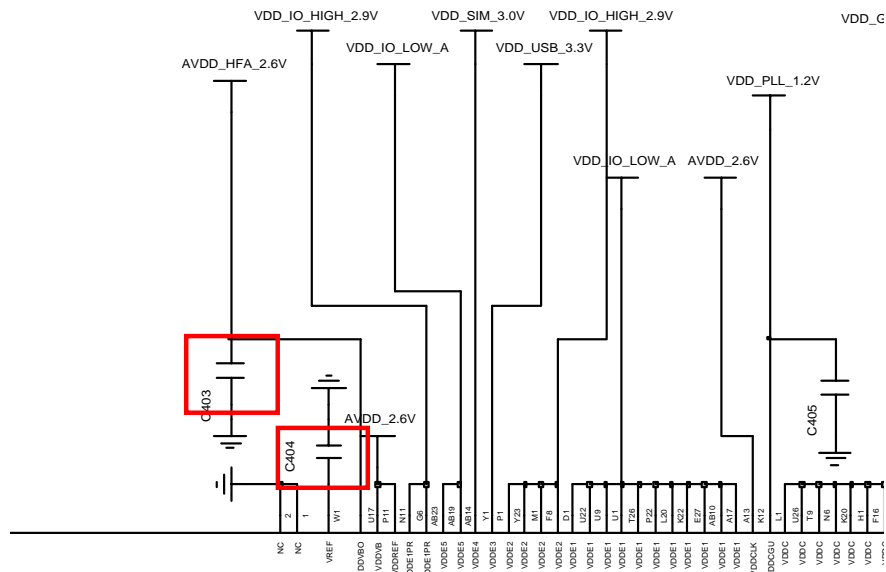


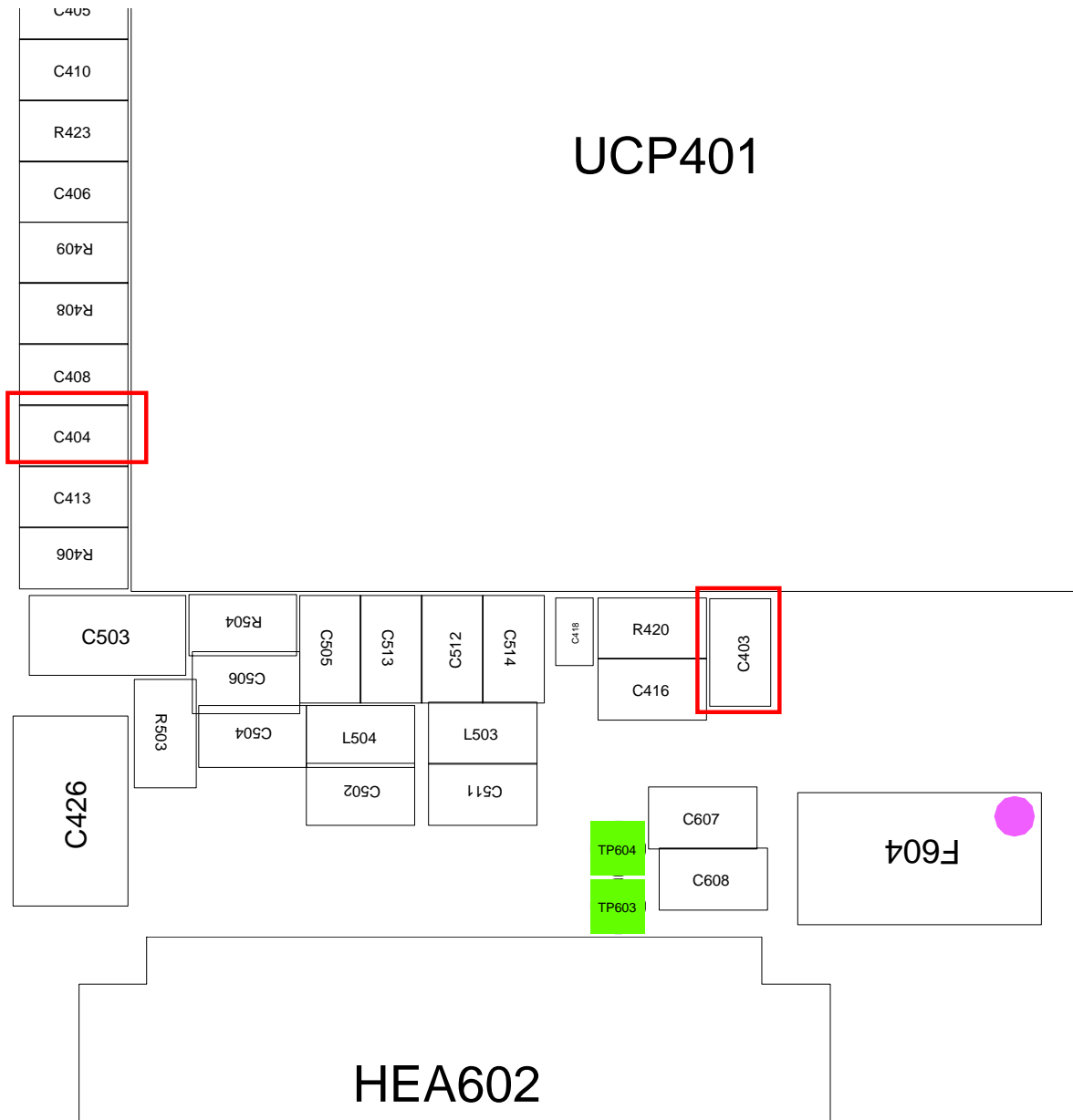


**9-1-6. Speaker Part**

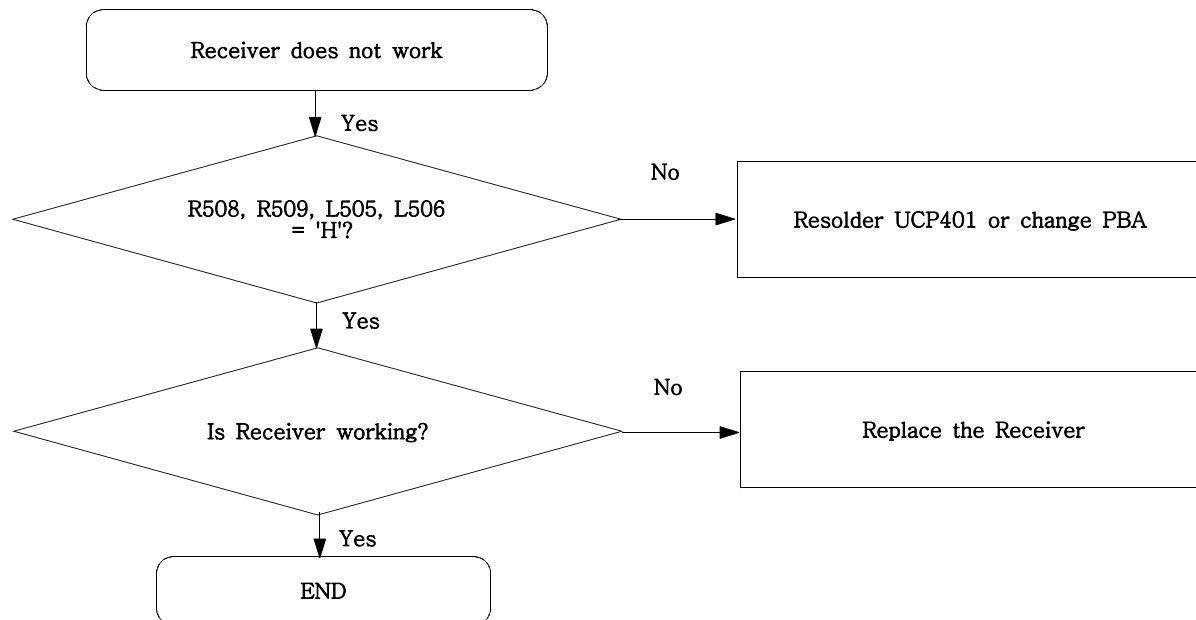


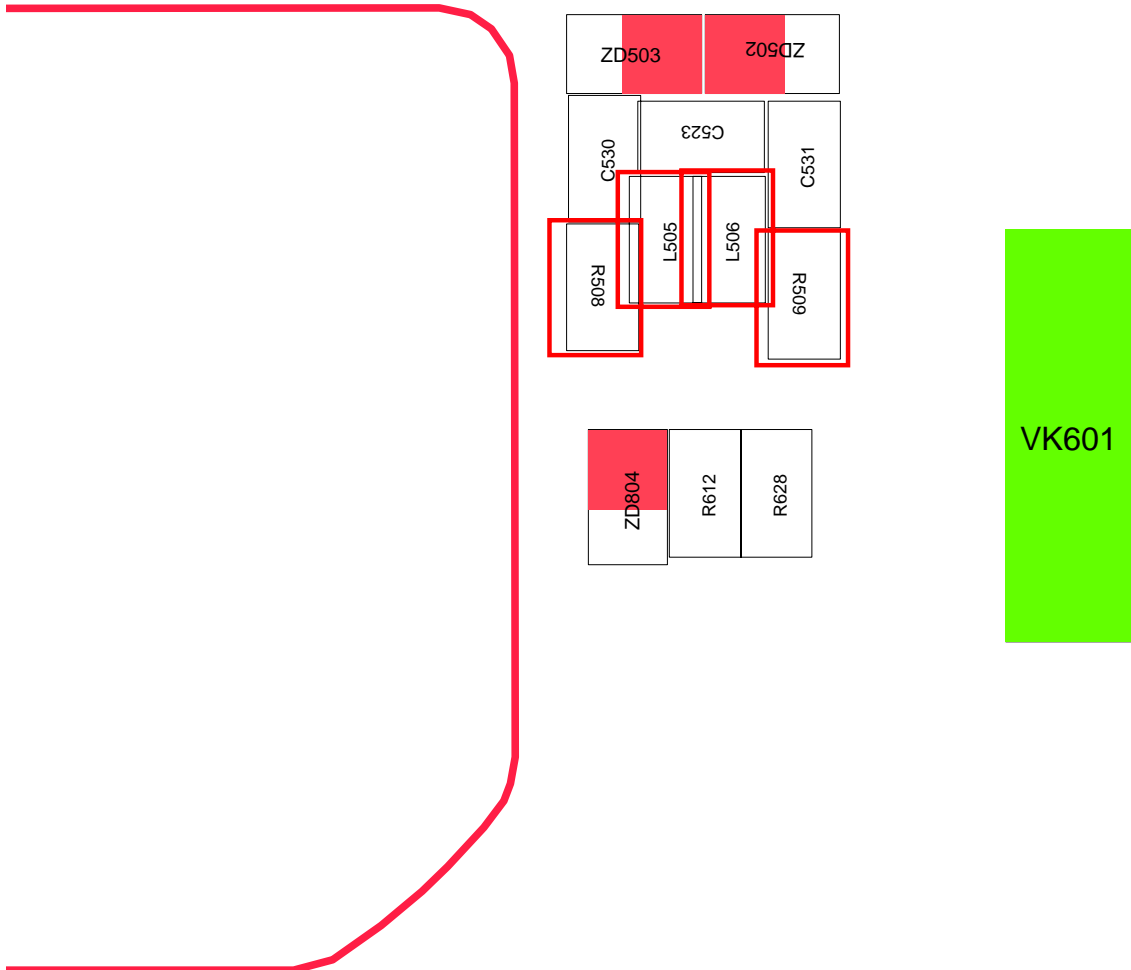
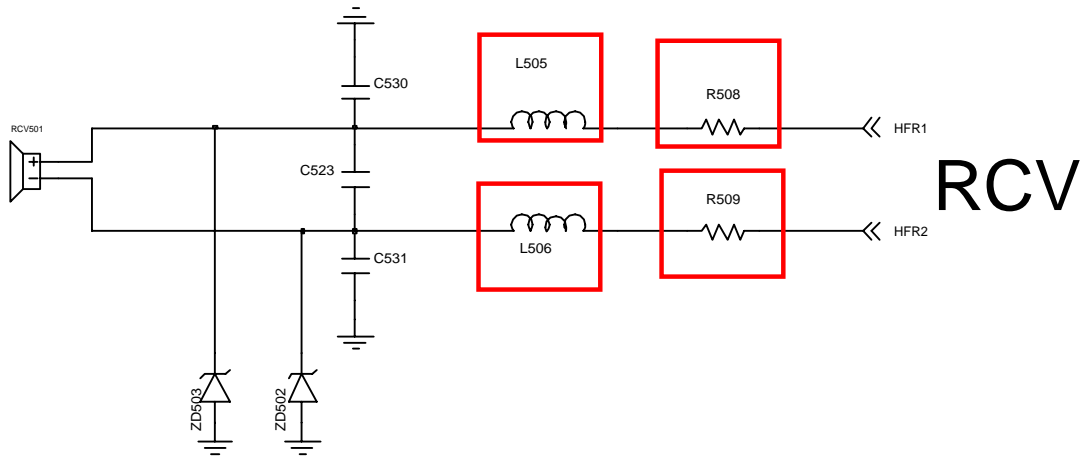
## < Audio AMP >



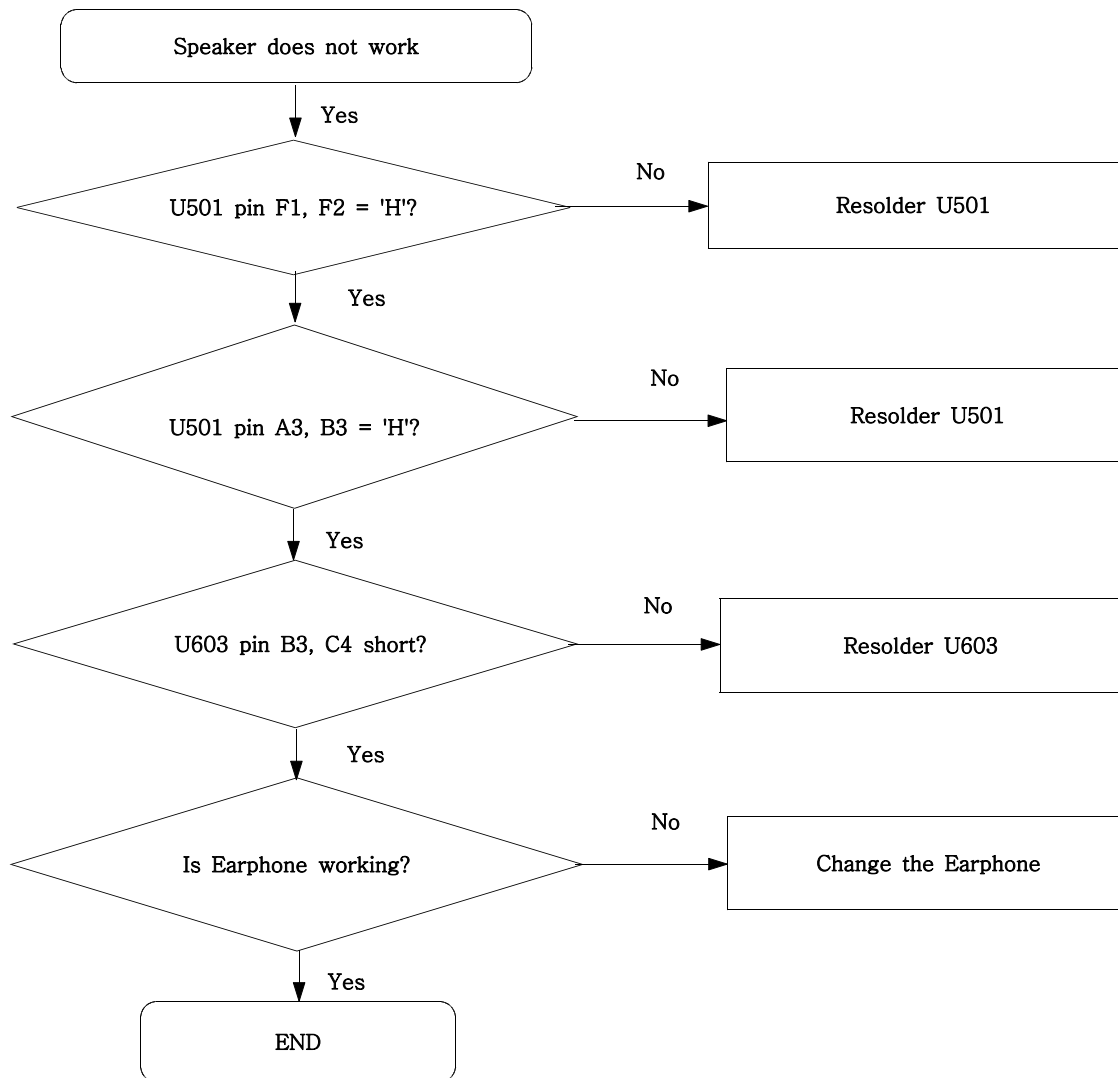


### 9-1-7. Receiver Part

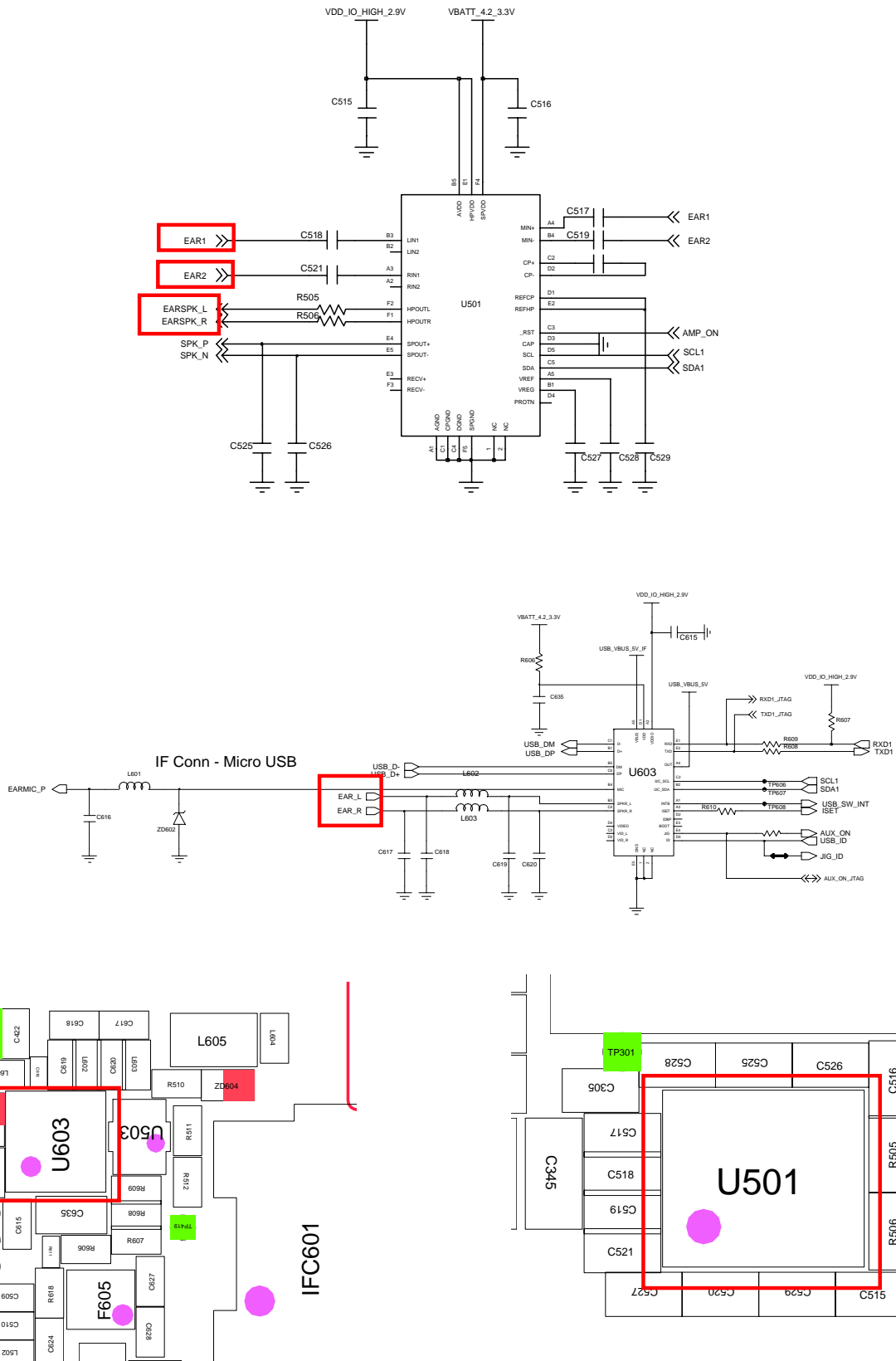




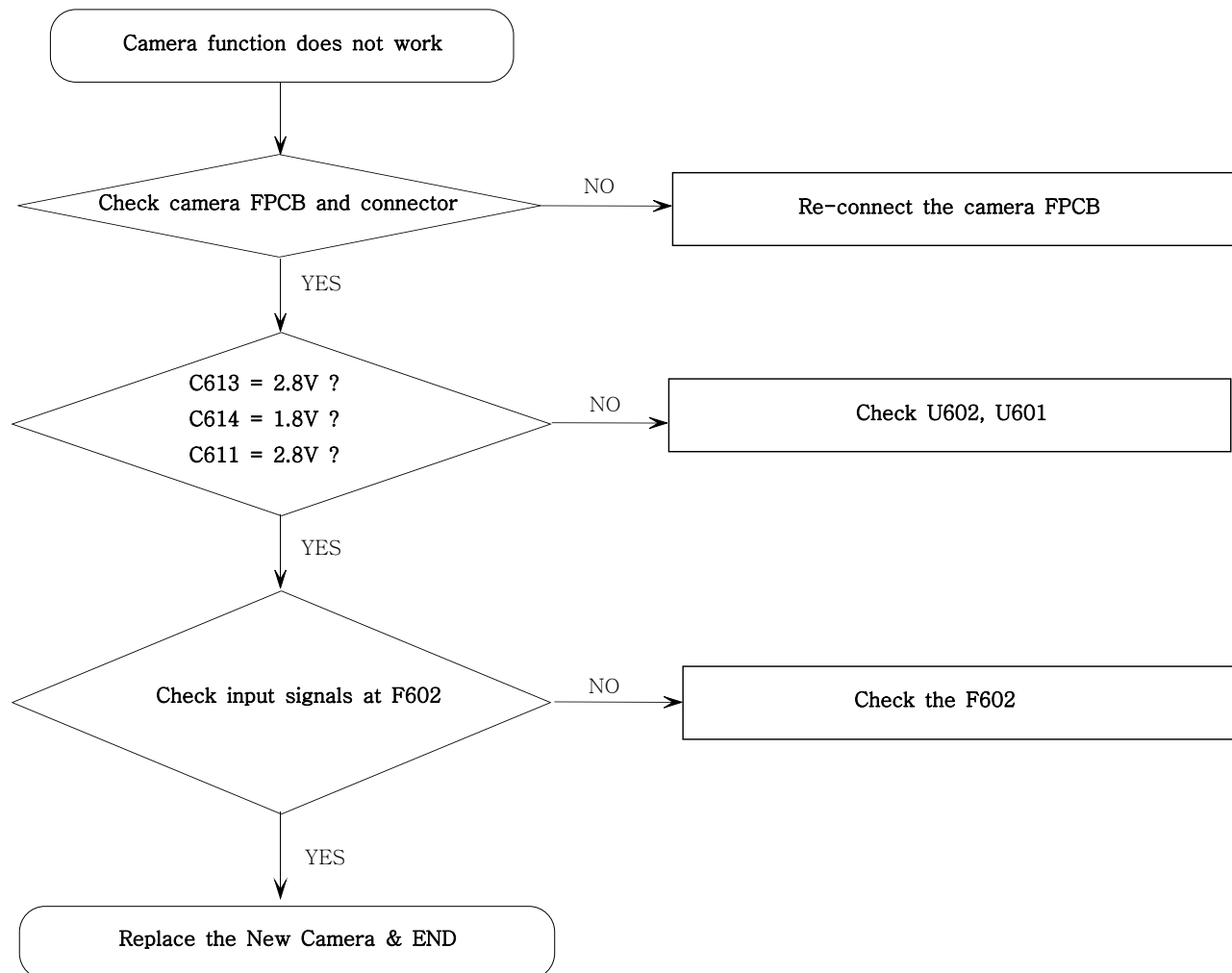
### 9-1-8. Headset Part

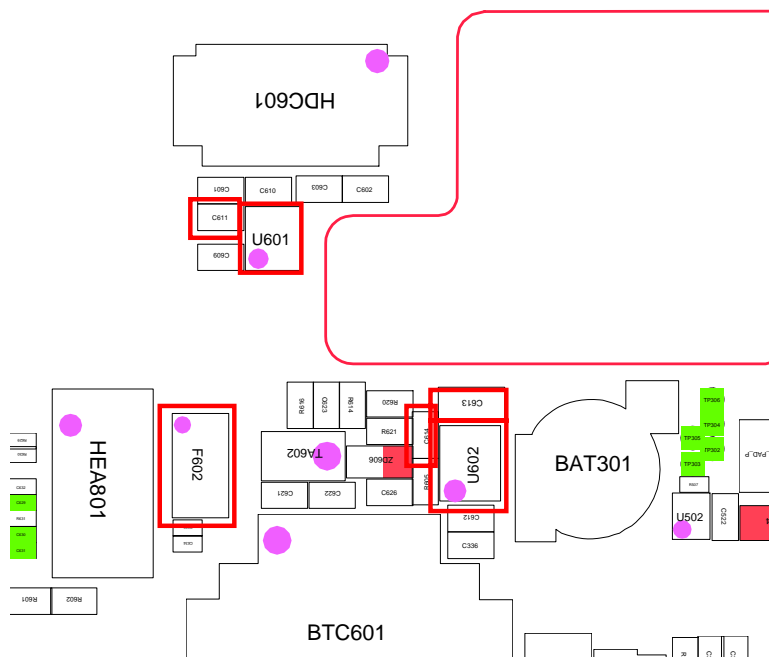
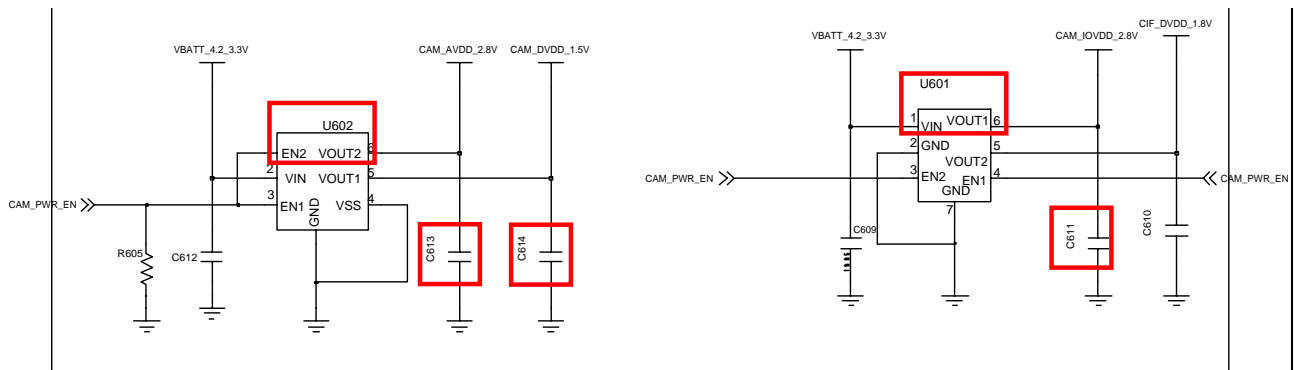
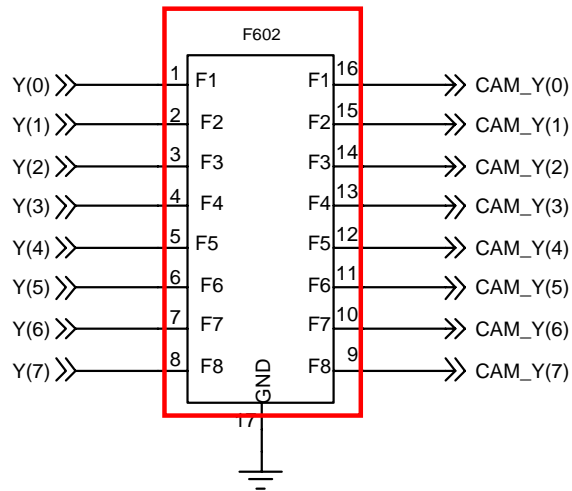






### 9-1-9. Camera Part



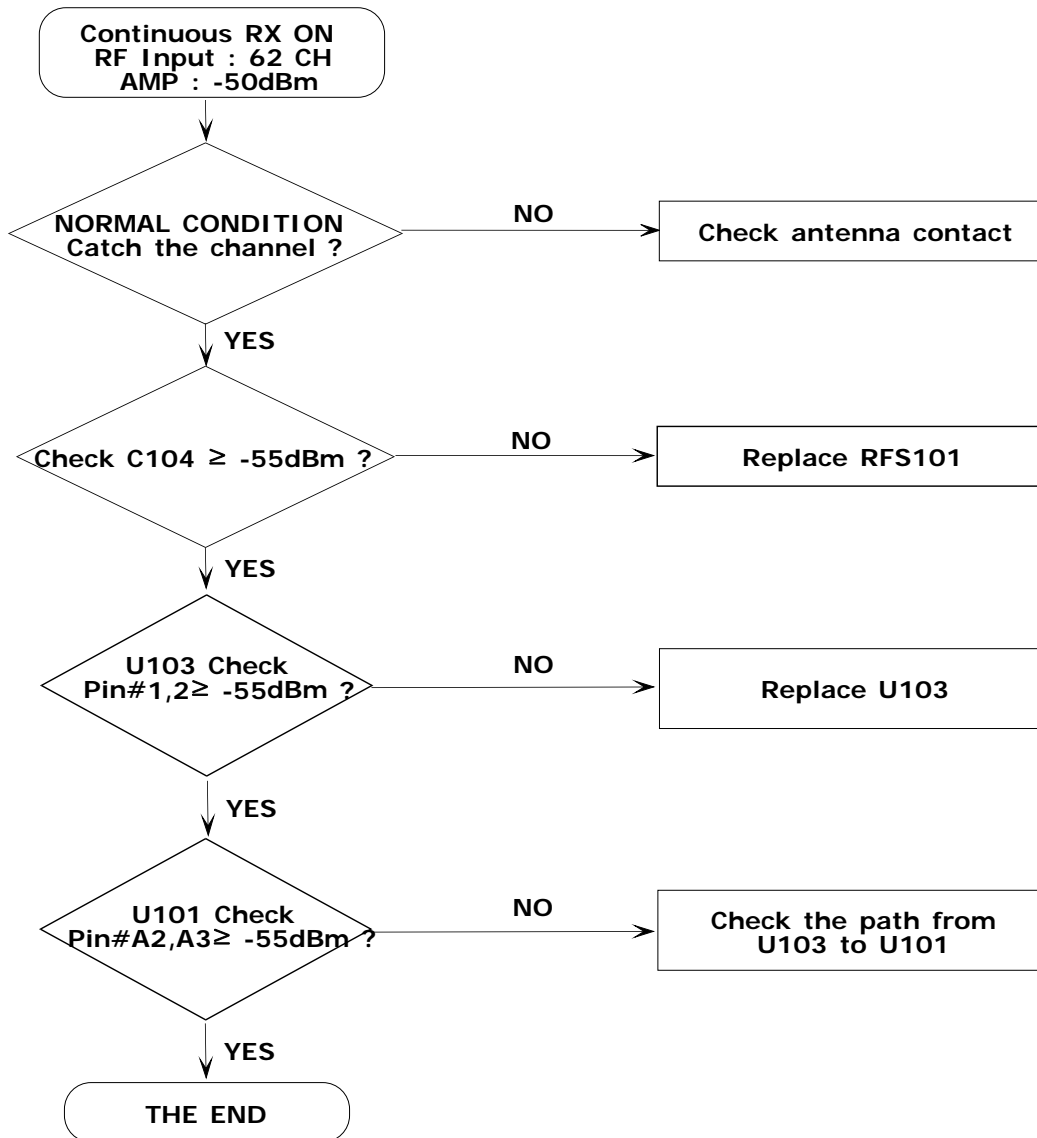


## 9-2.RF

### 9-2-1. GSM900 Receiver

\*\*If you check the RX chain,

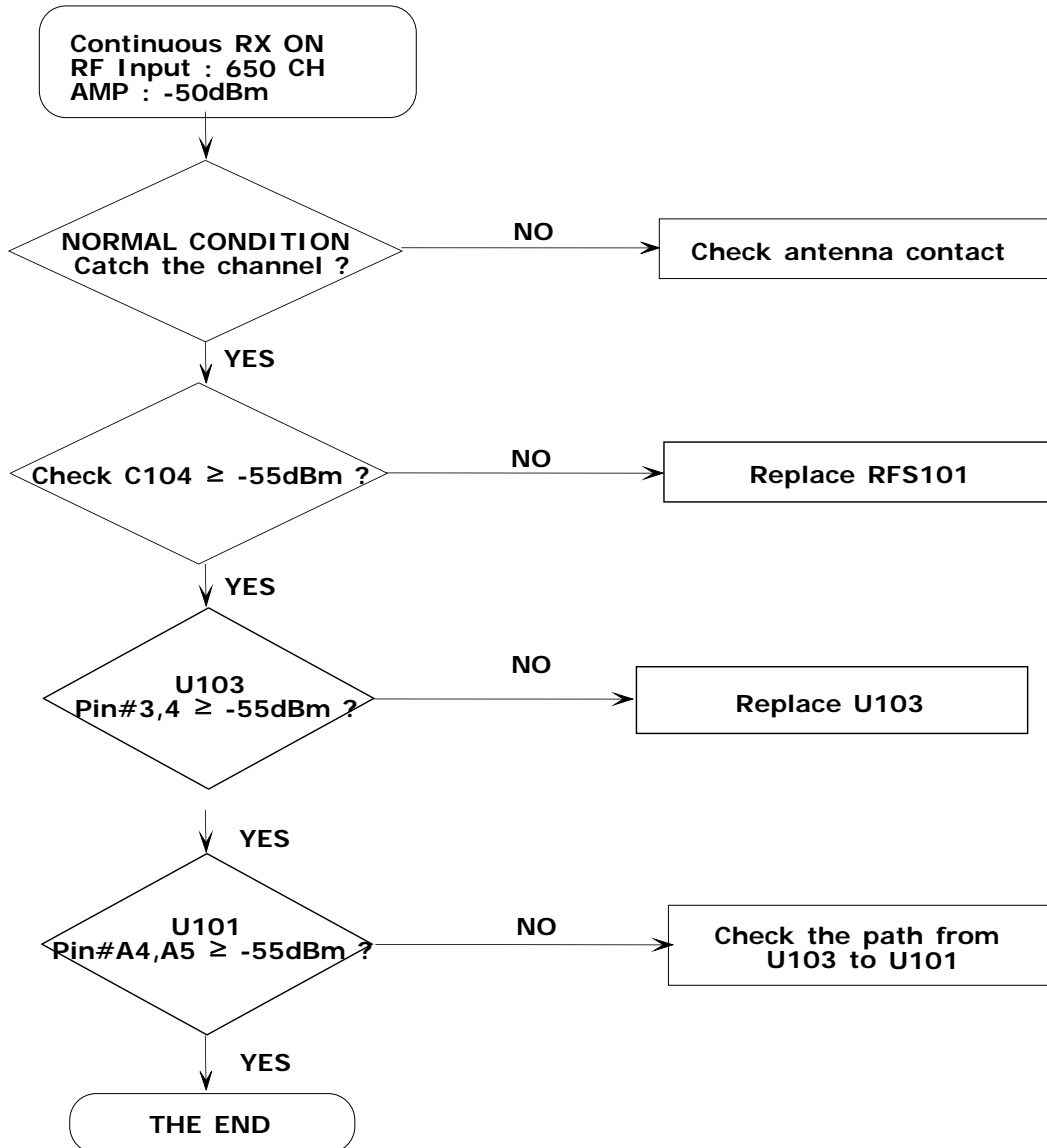
Check the not only RF Device but also resistor, inductor and capacitor.



### 9-2-2. DCS1800 Receiver

\*\*If you check the RX chain,

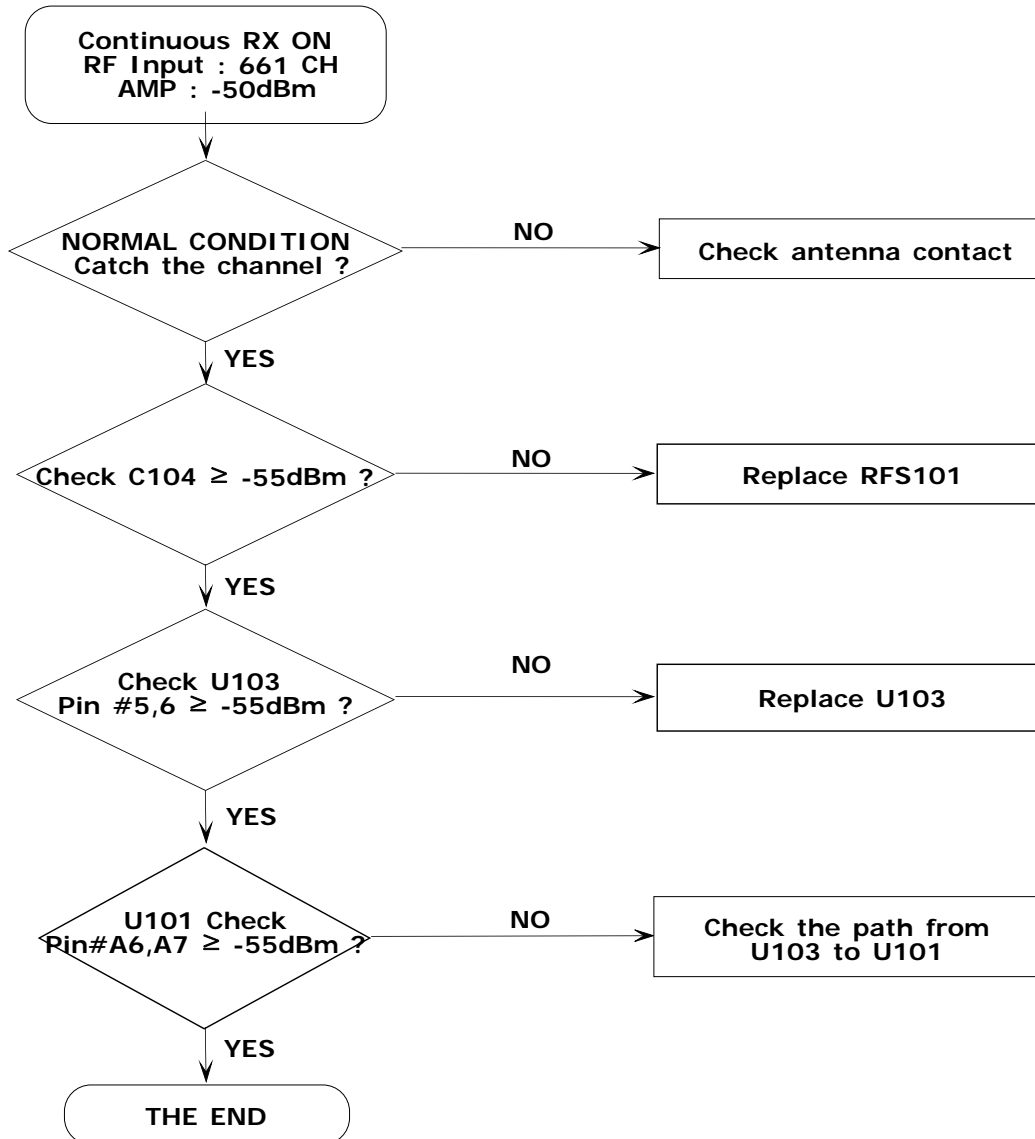
Check the not only RF Device but also resistor, inductor and capacitor.

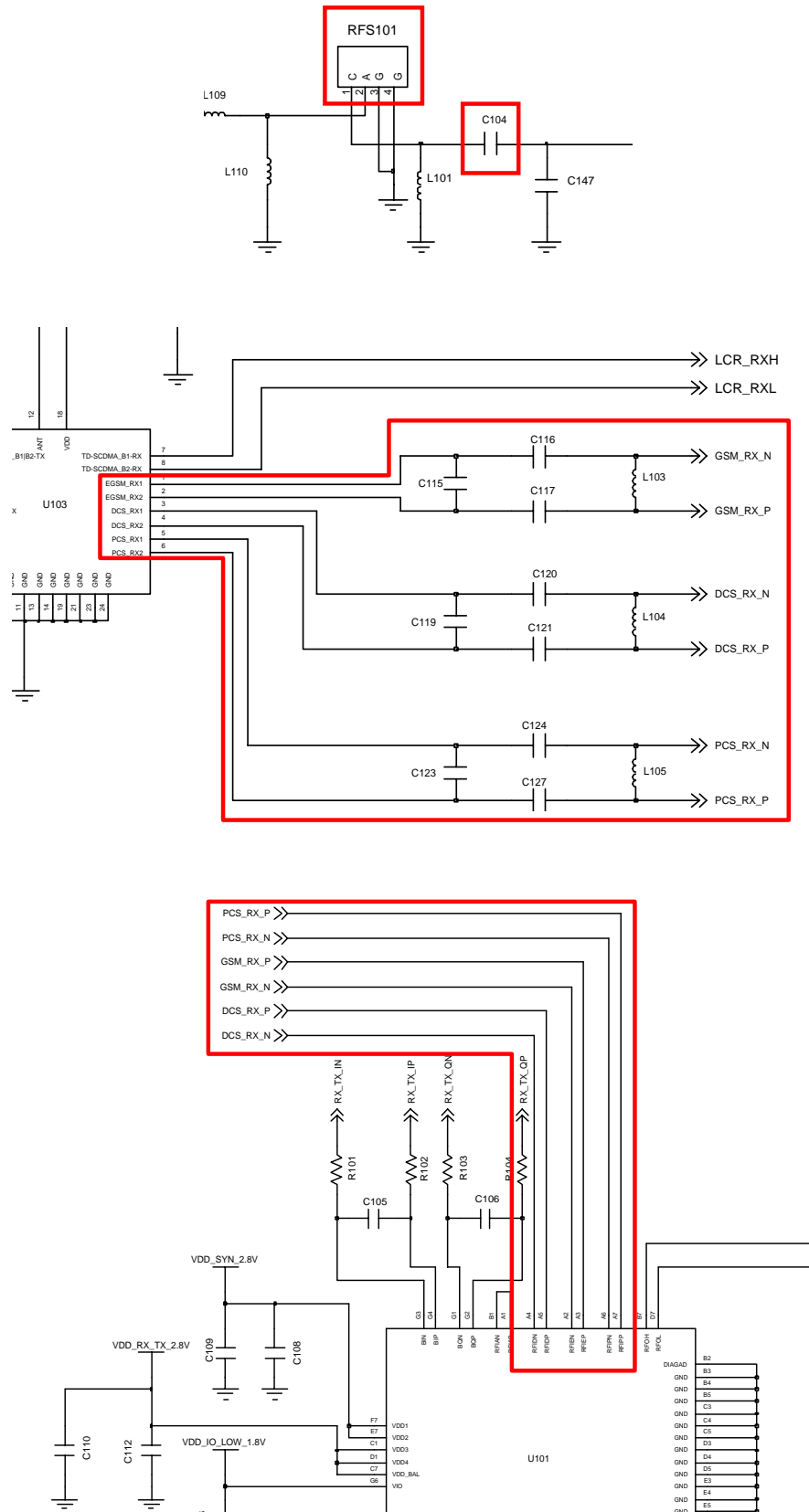


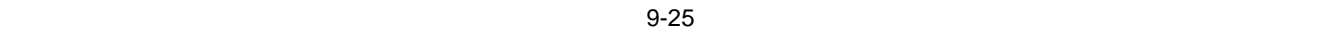
**9-2-3. PCS1900 Receiver**

\*\*If you check the RX chain,

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





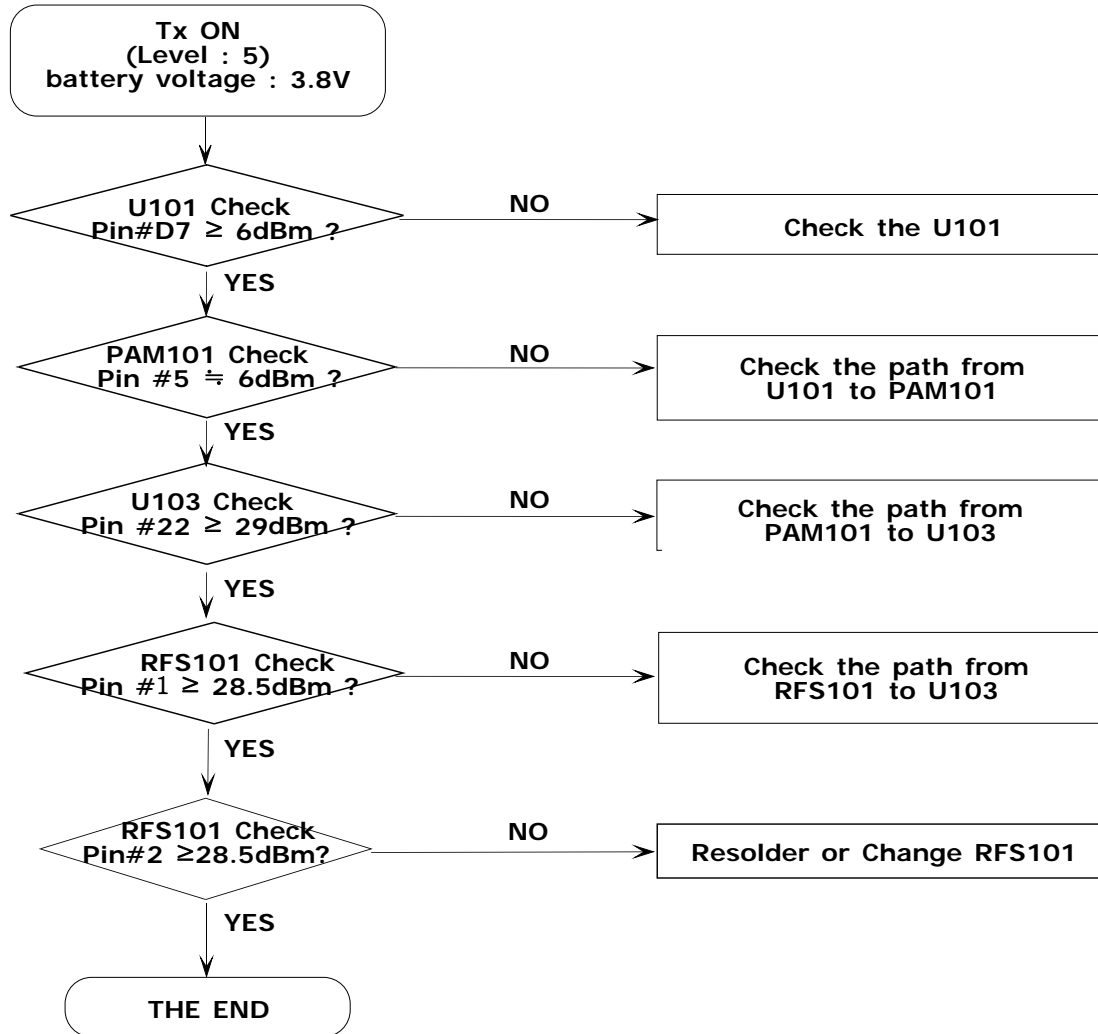




### 9-2-4. GSM900 Transmitter

\*\*If you check the TX chain,

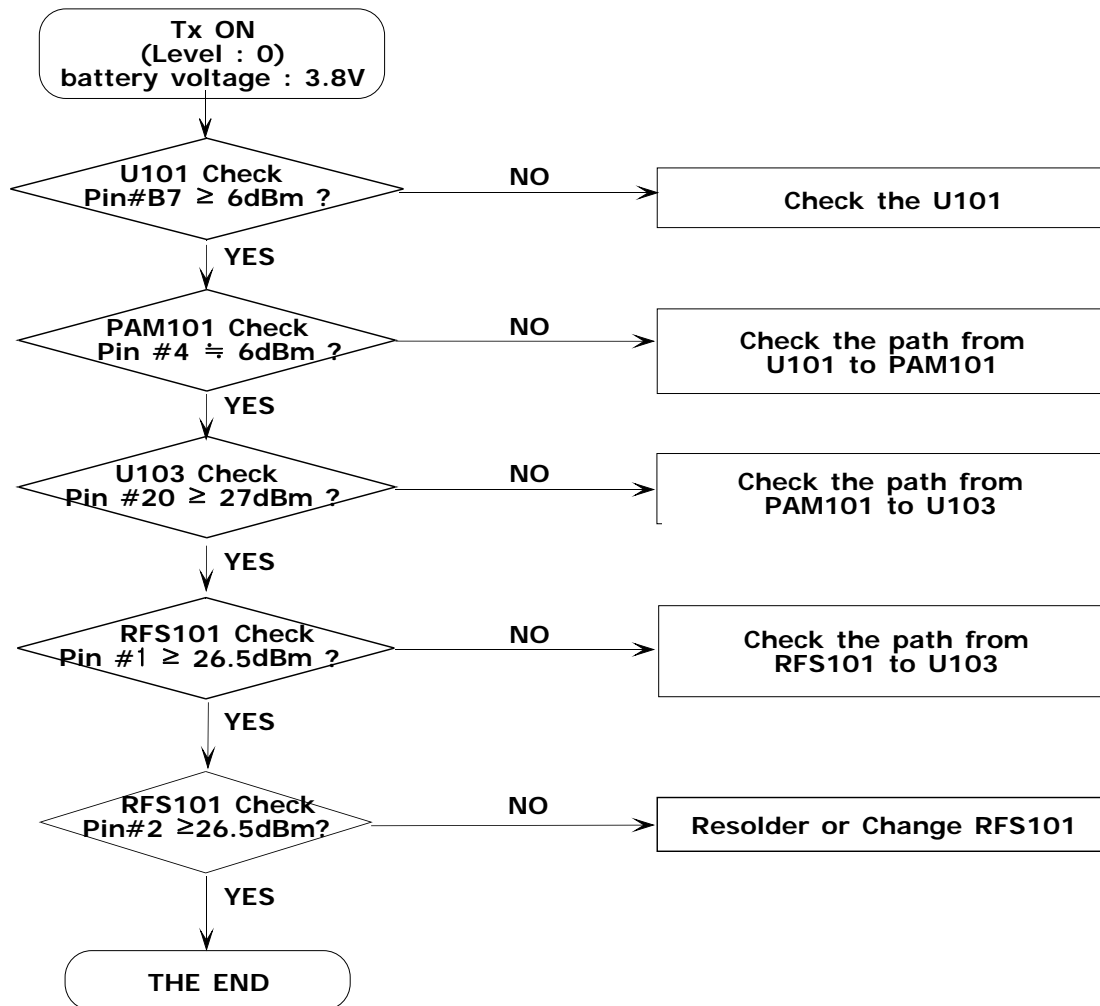
Check the not only RF Device but also resistor, inductor and capacitor.



**9-2-5. DCS1800 Transmitter**

\*\*If you check the TX chain,

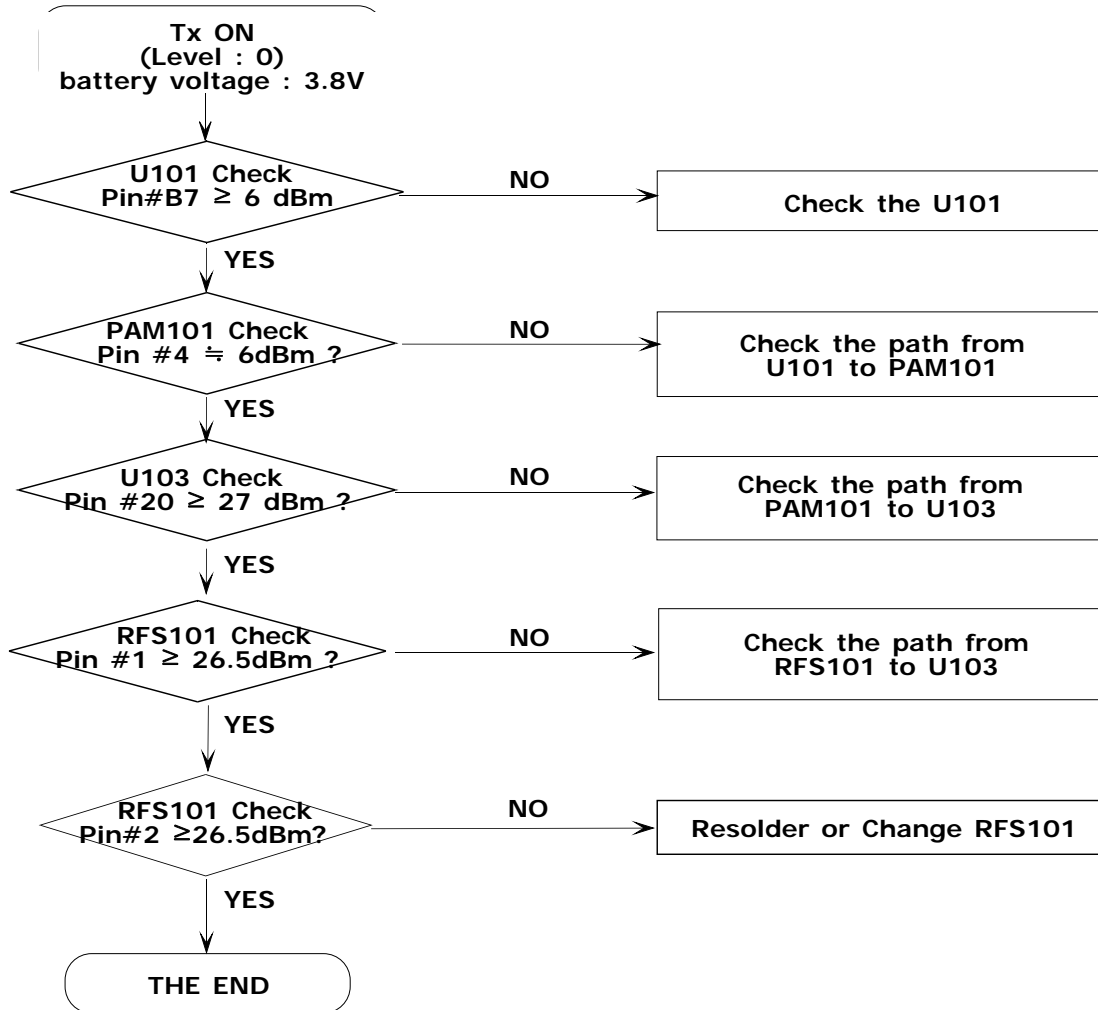
Check the not only RF Device but also resistor, inductor and capacitor.

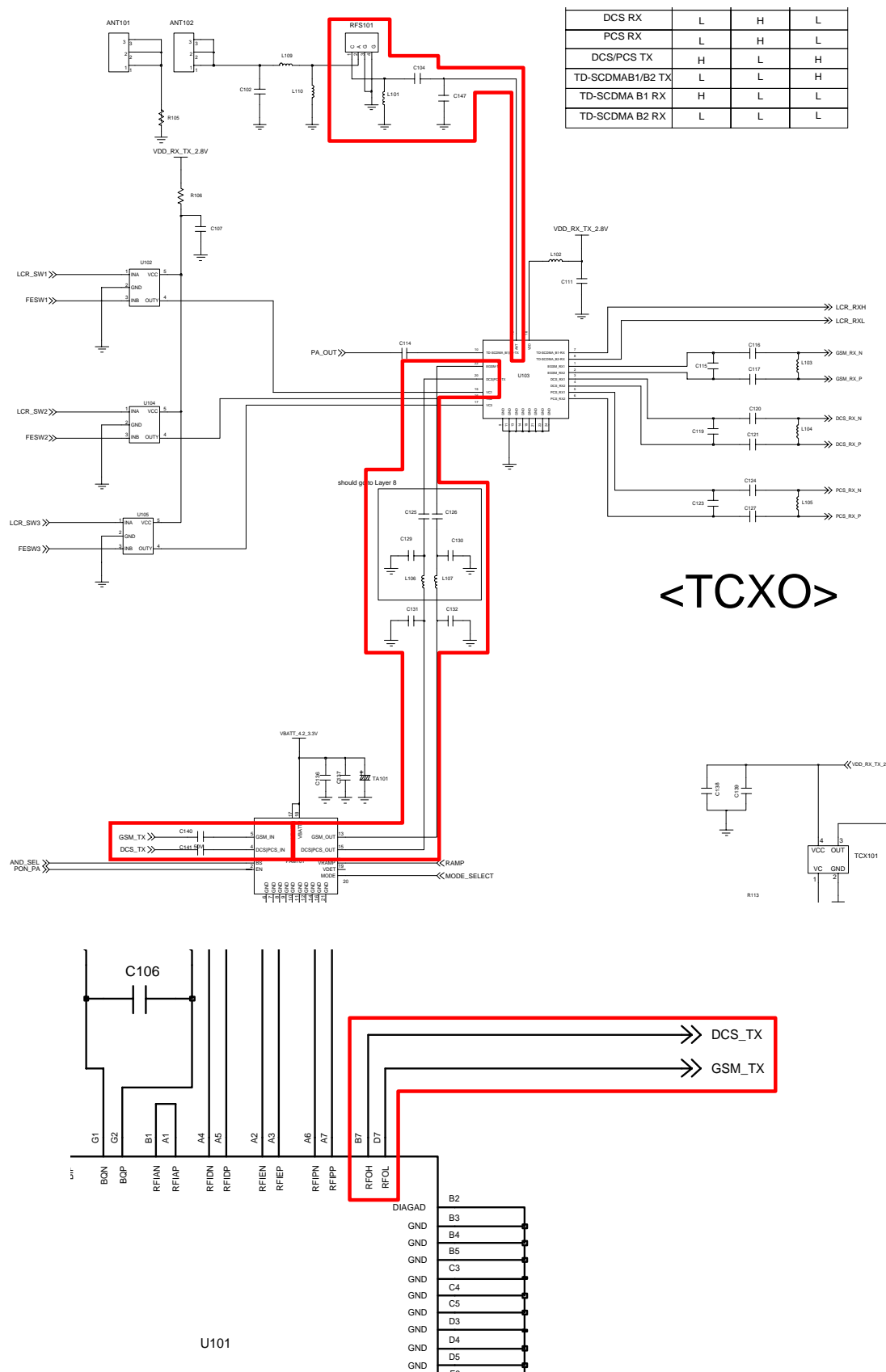


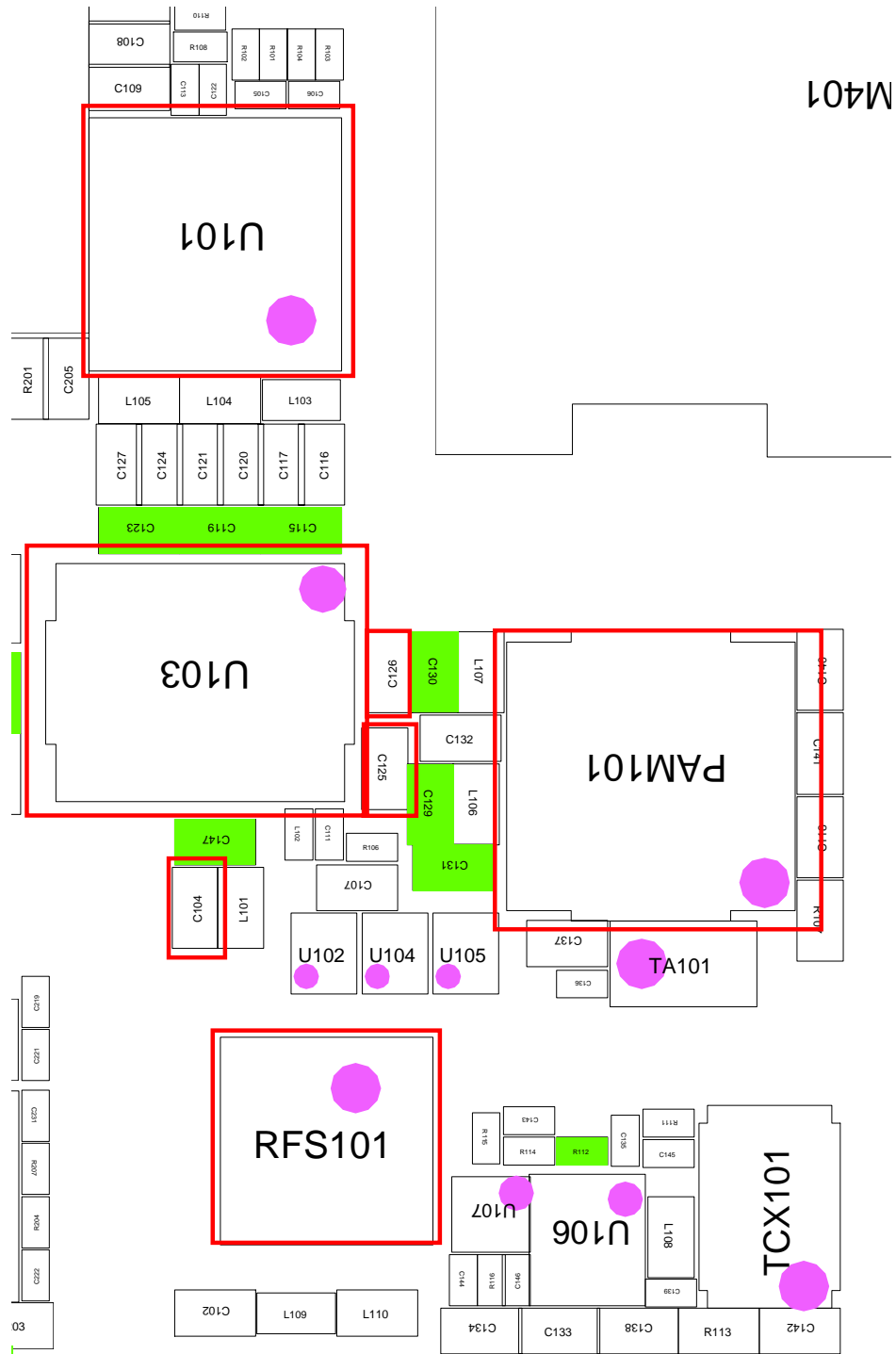
### 9-2-6. PCS1900 Transmitter

\*\*If you check the TX chain,

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



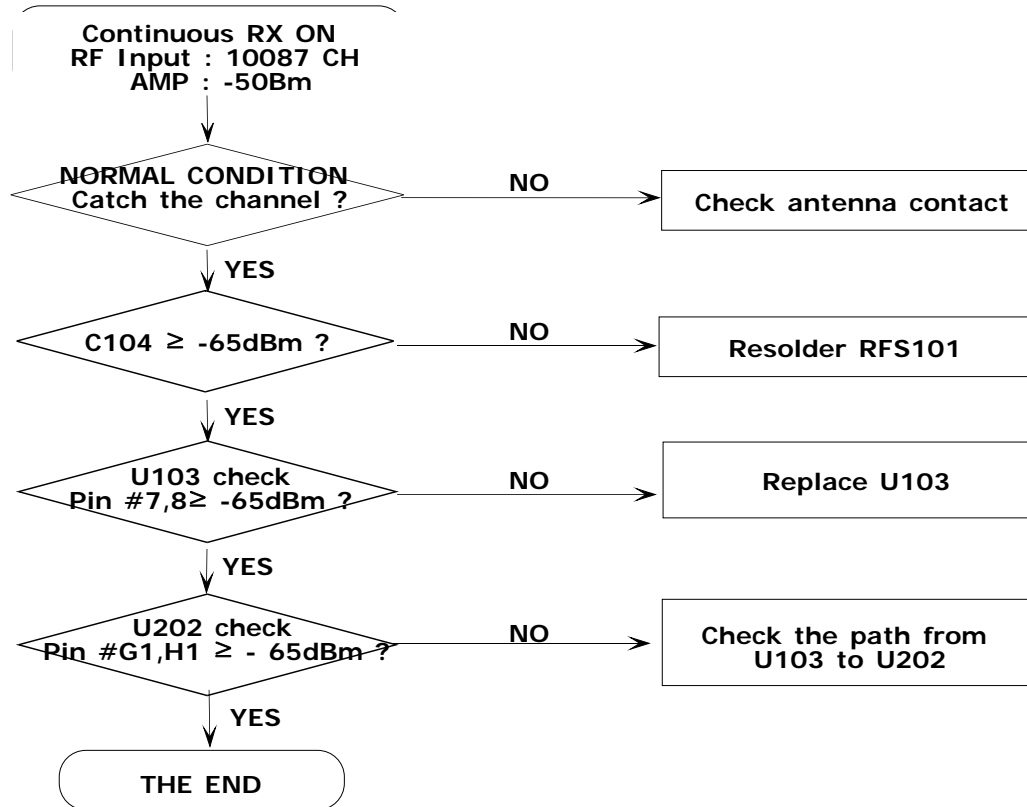


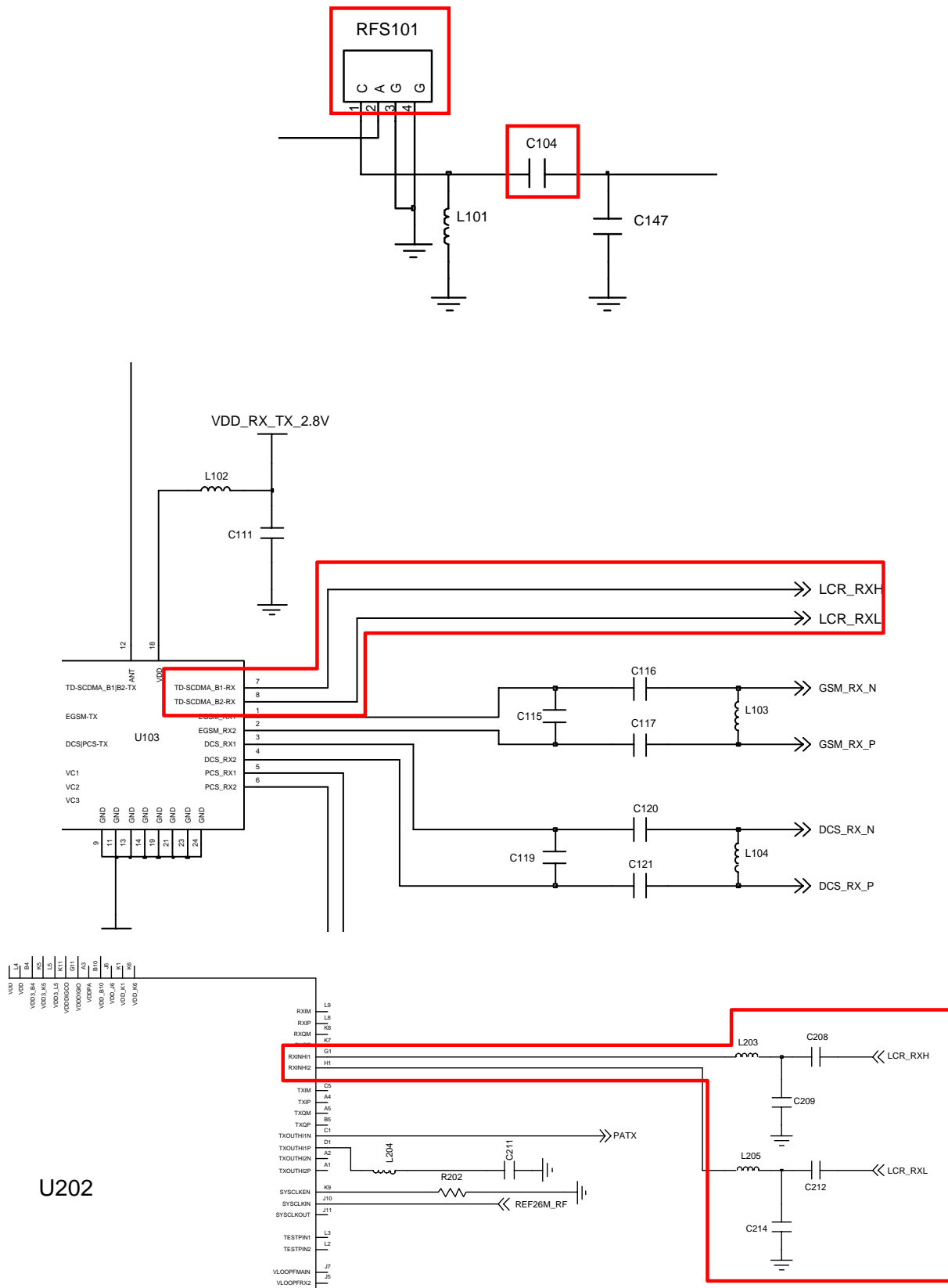


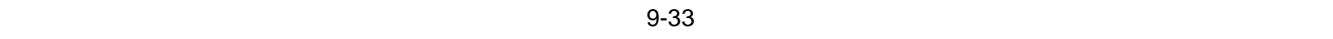
### 9-2-7. TD-SCDMA Receiver

\*\*If you check the RX chain,

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





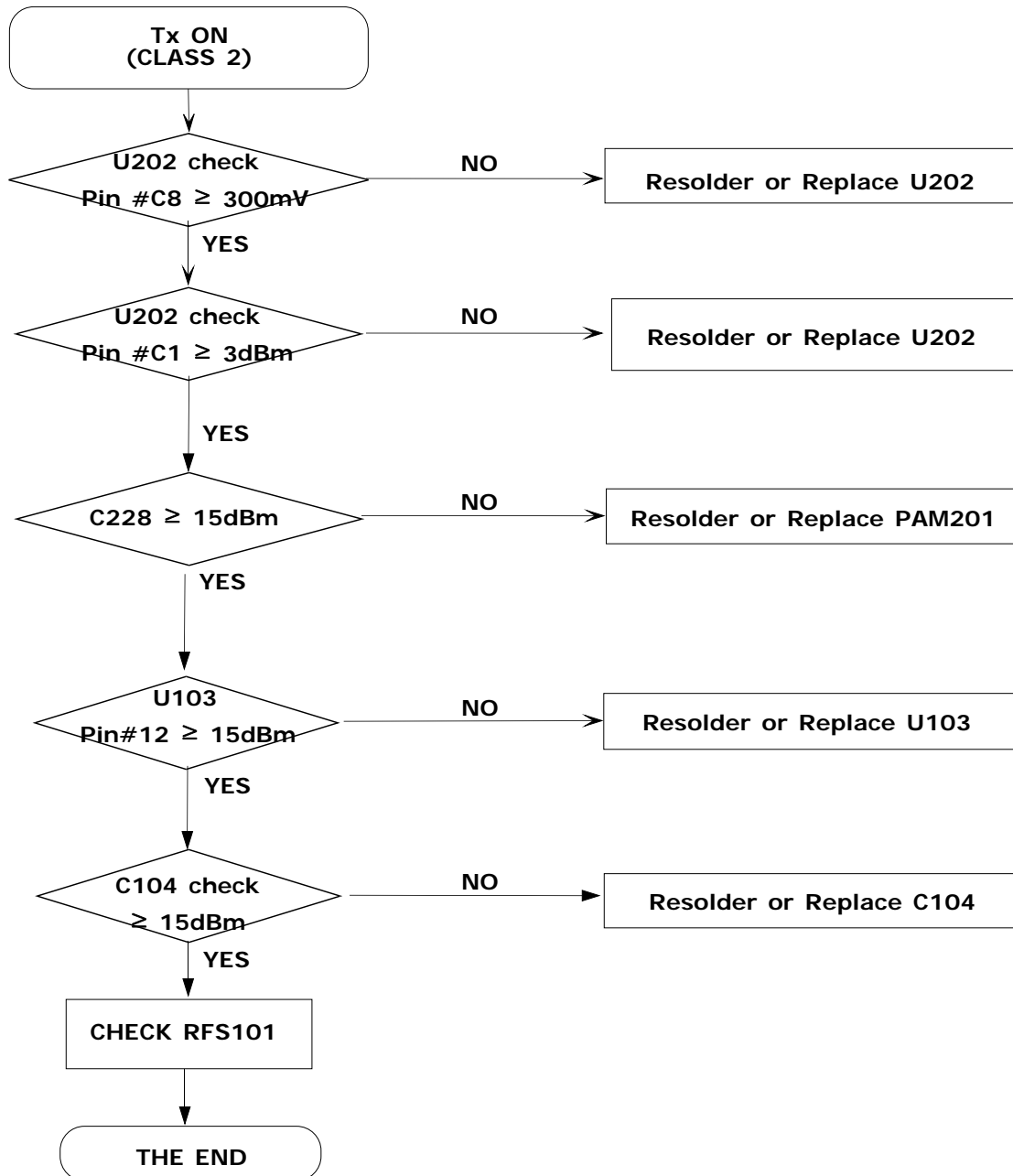


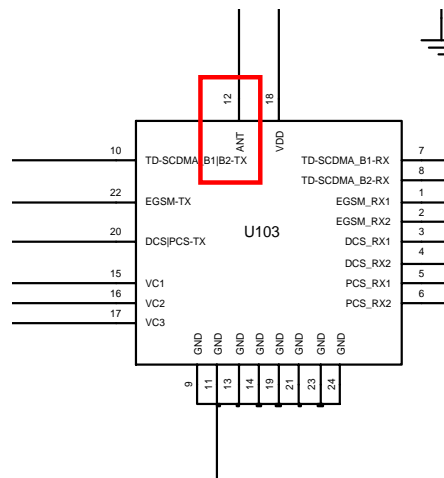
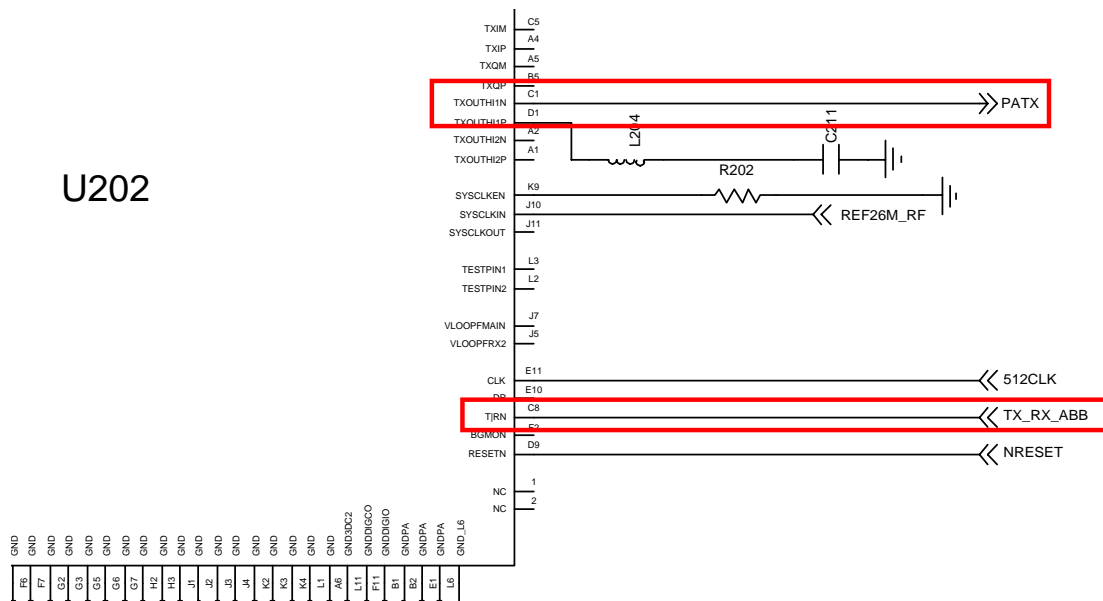
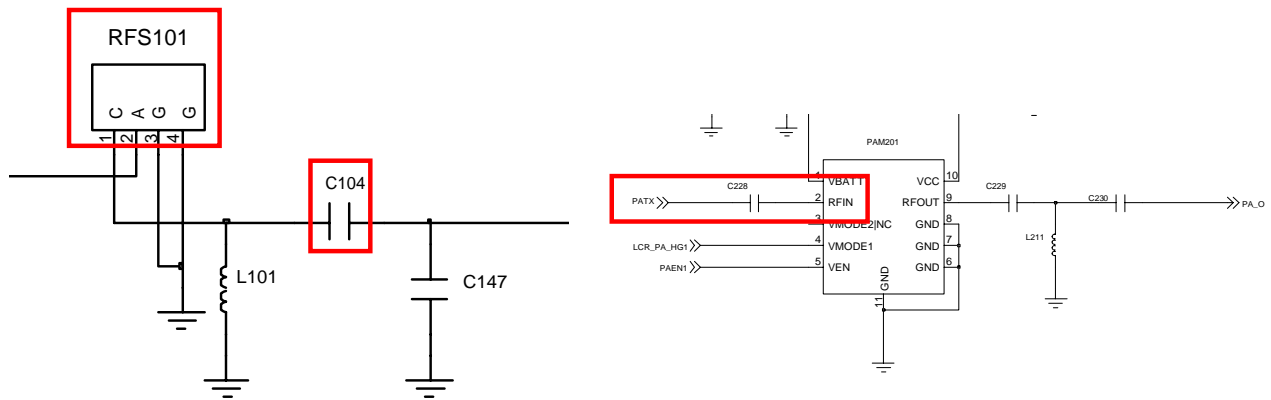


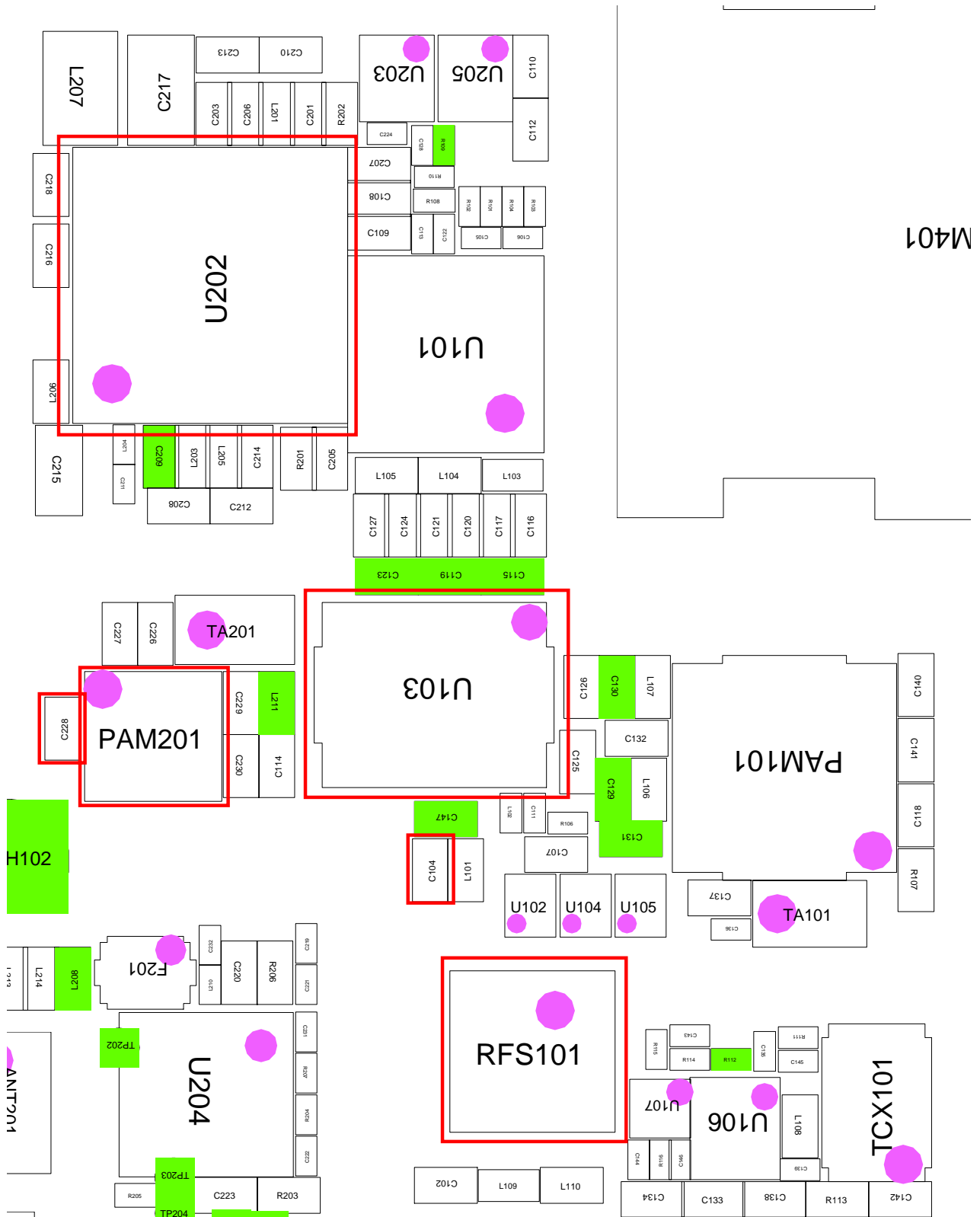
### 9-2-8. TD-SCDMA Transmitter

\*\*If you check the TX chain,

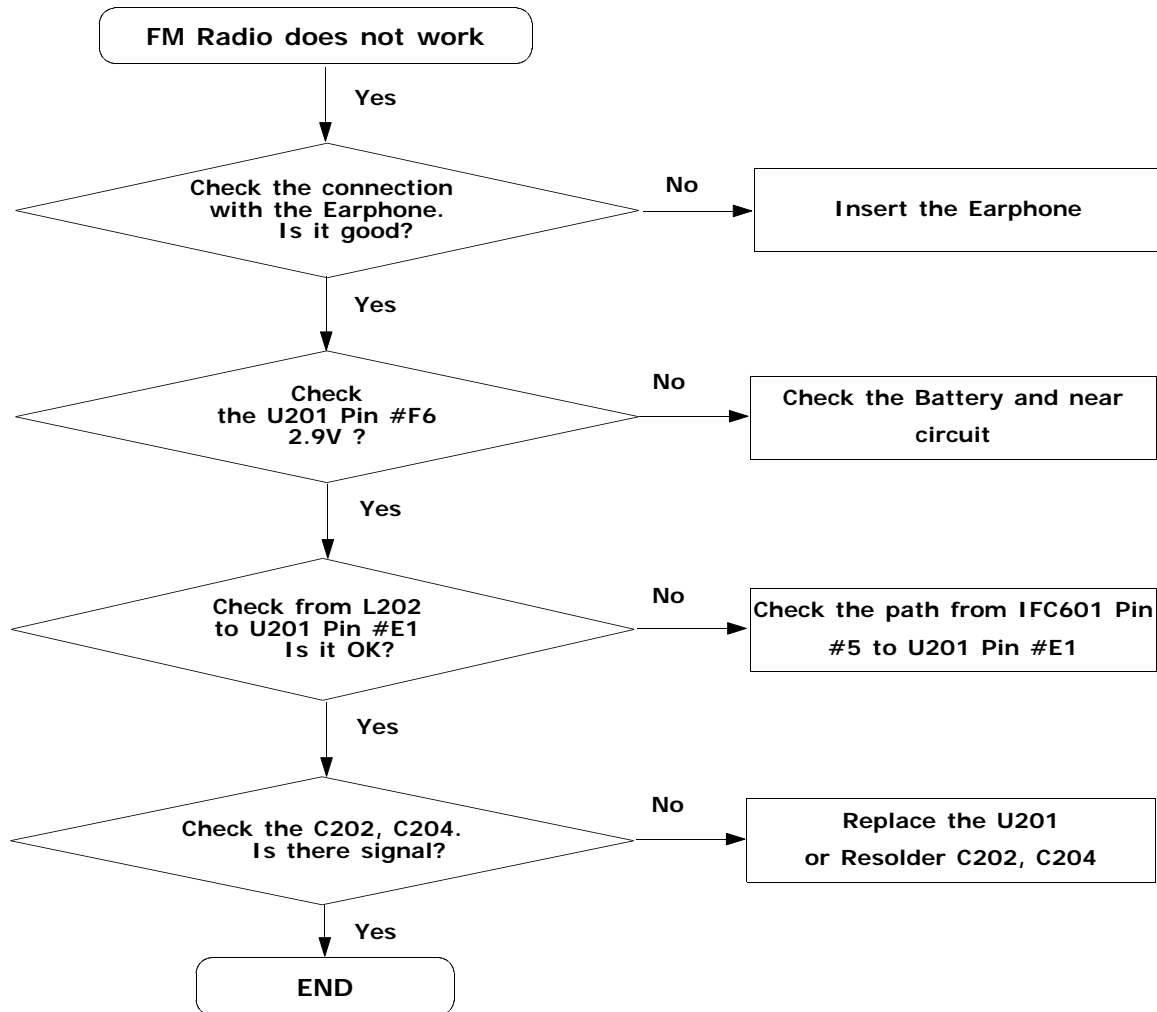
Check the not only RF Device but also resistor, inductor and capacitor.

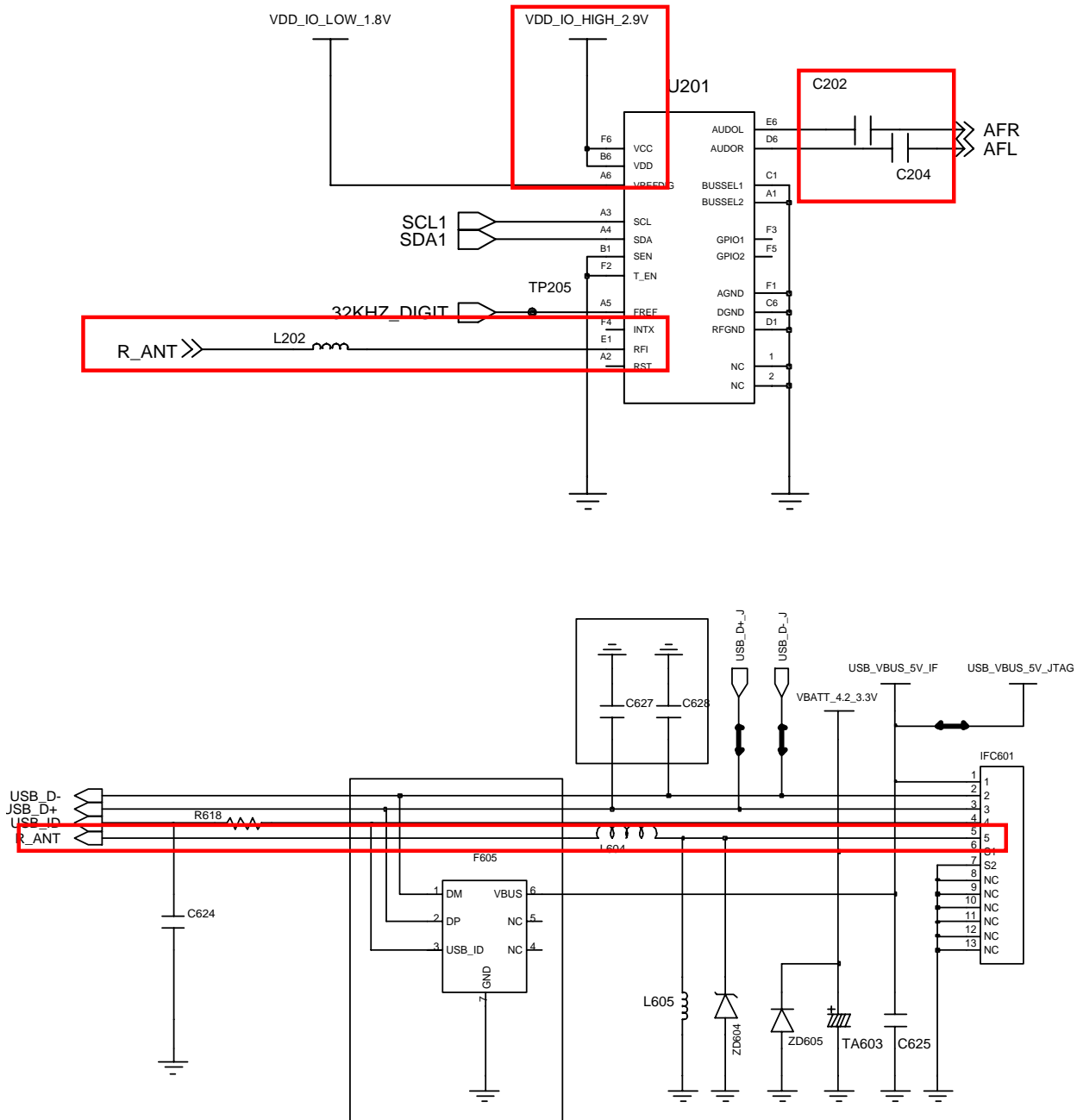


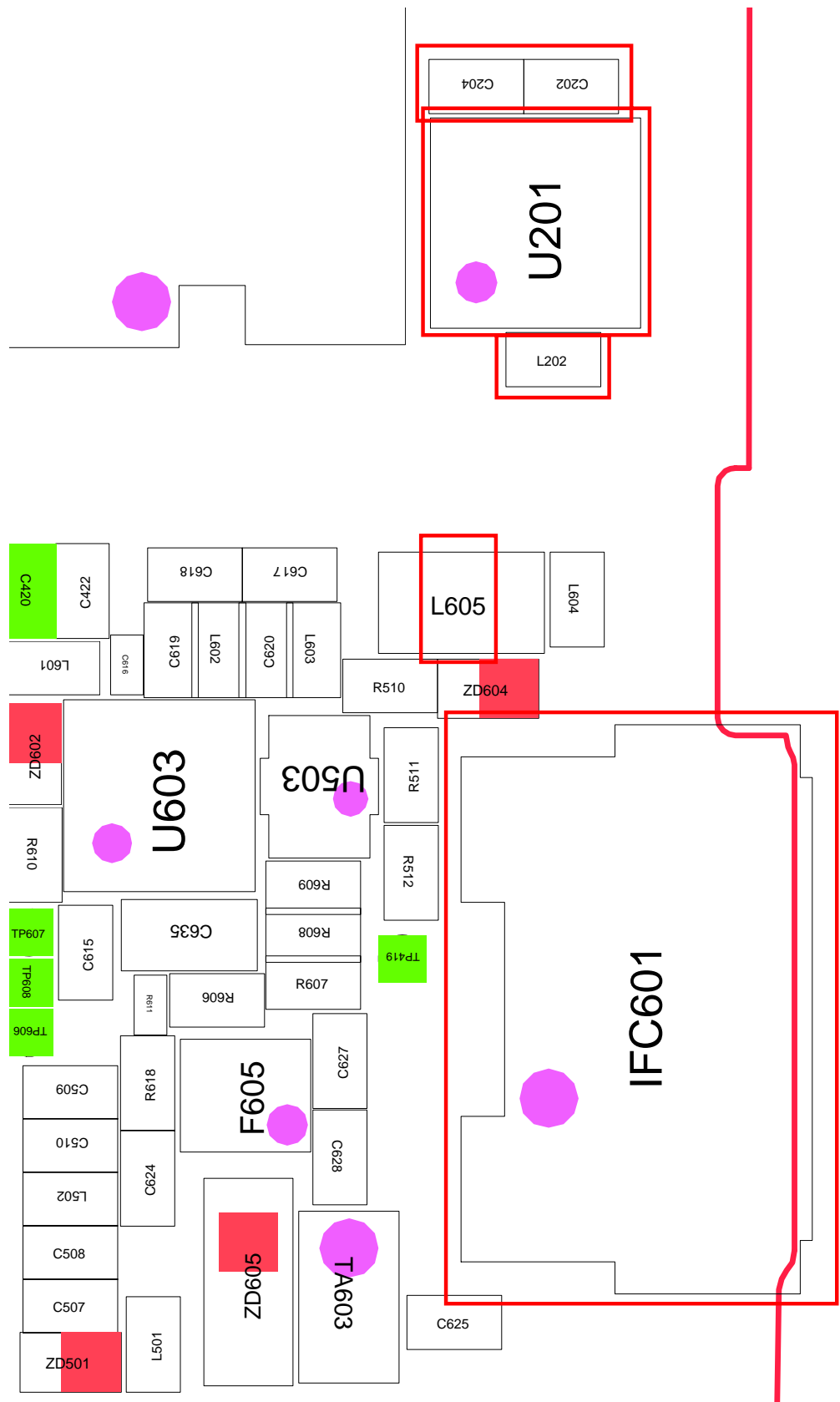


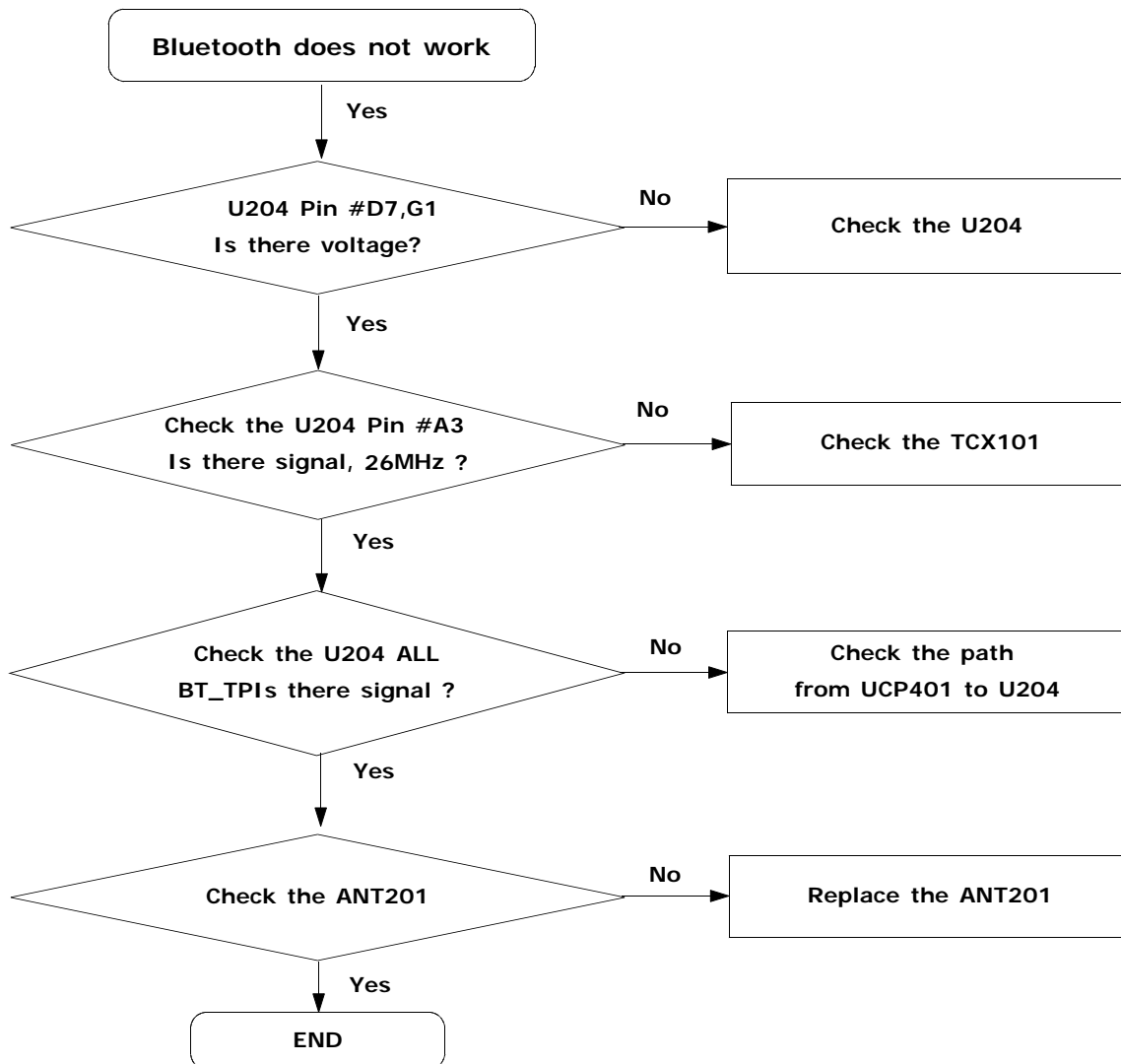


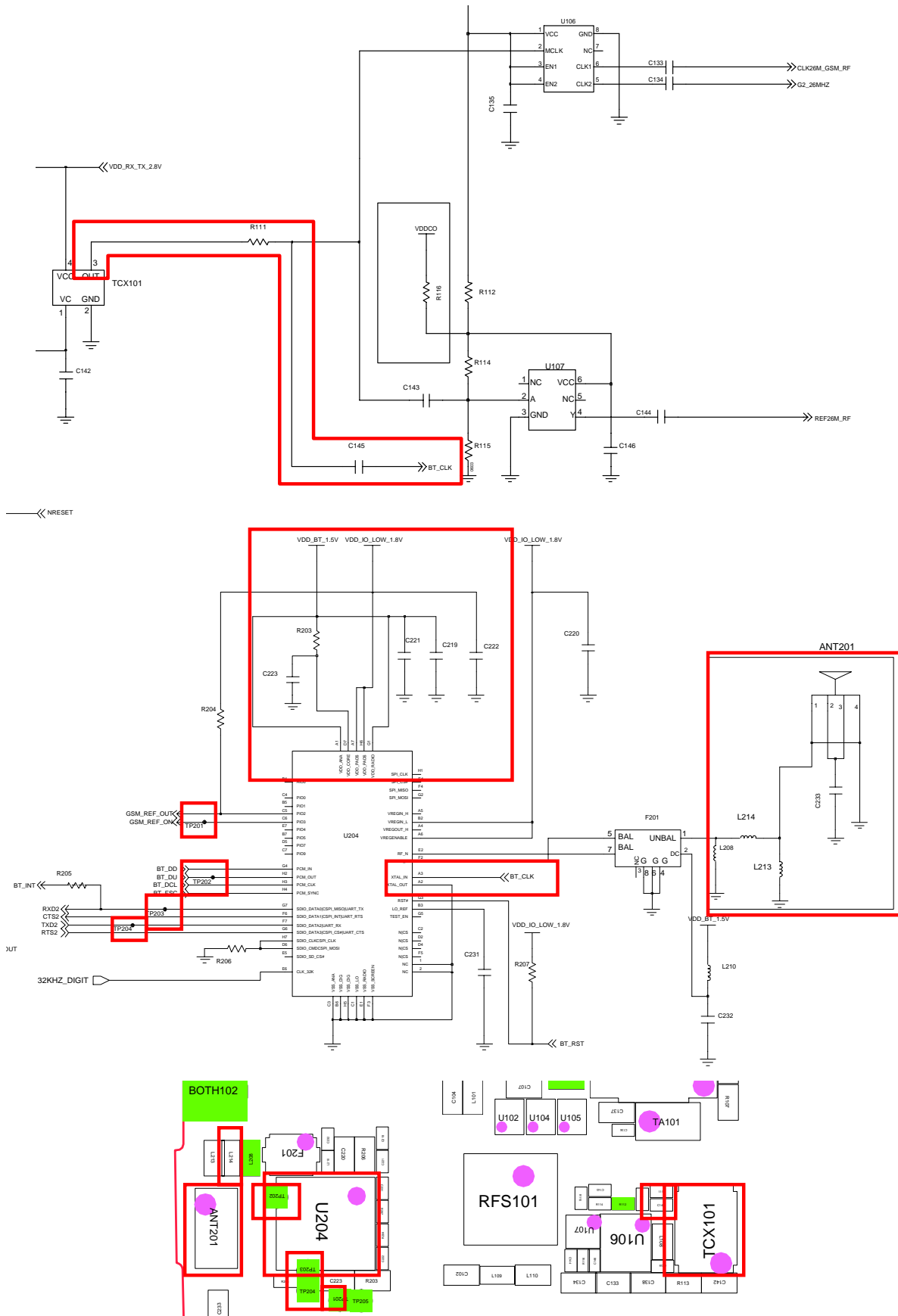
## 9-2-9 FM Radio







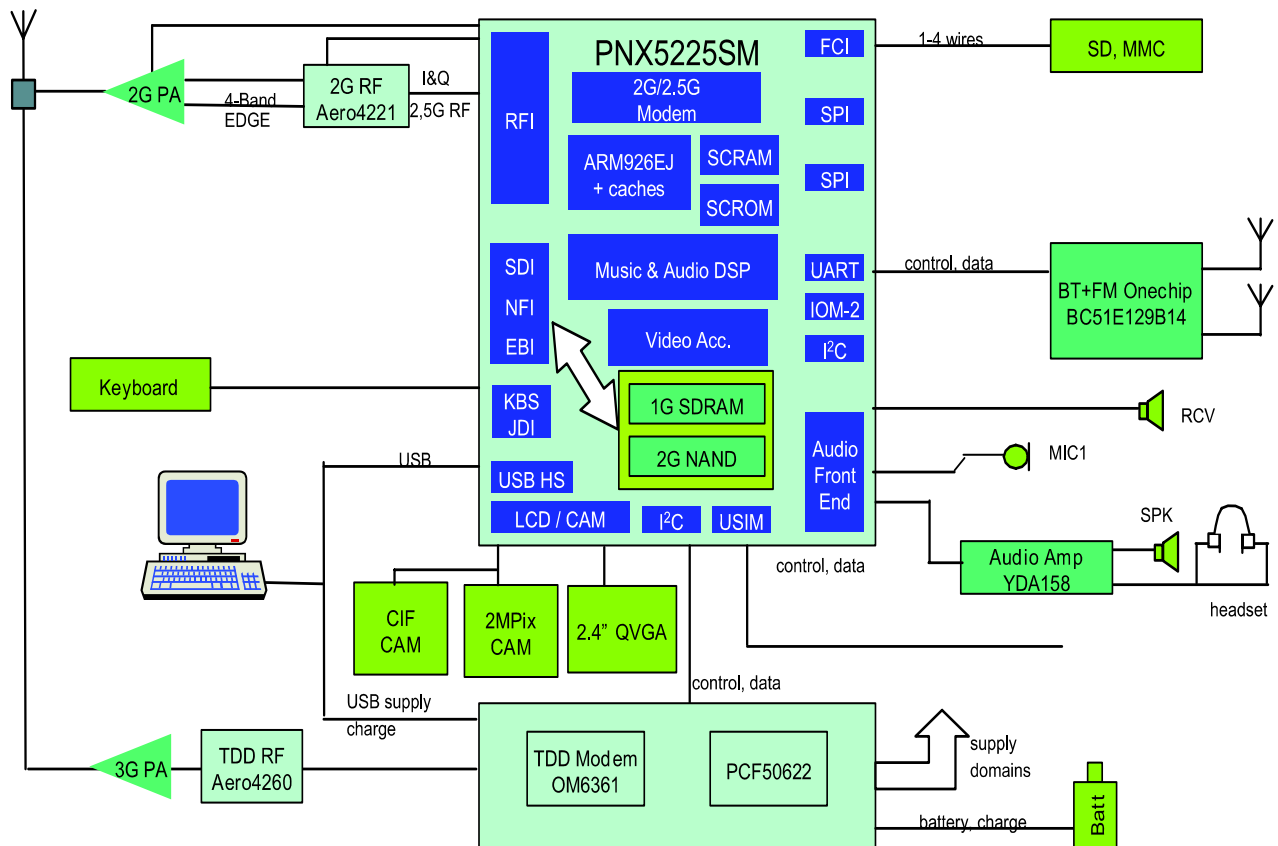
**9-2-11 Bluetooth**





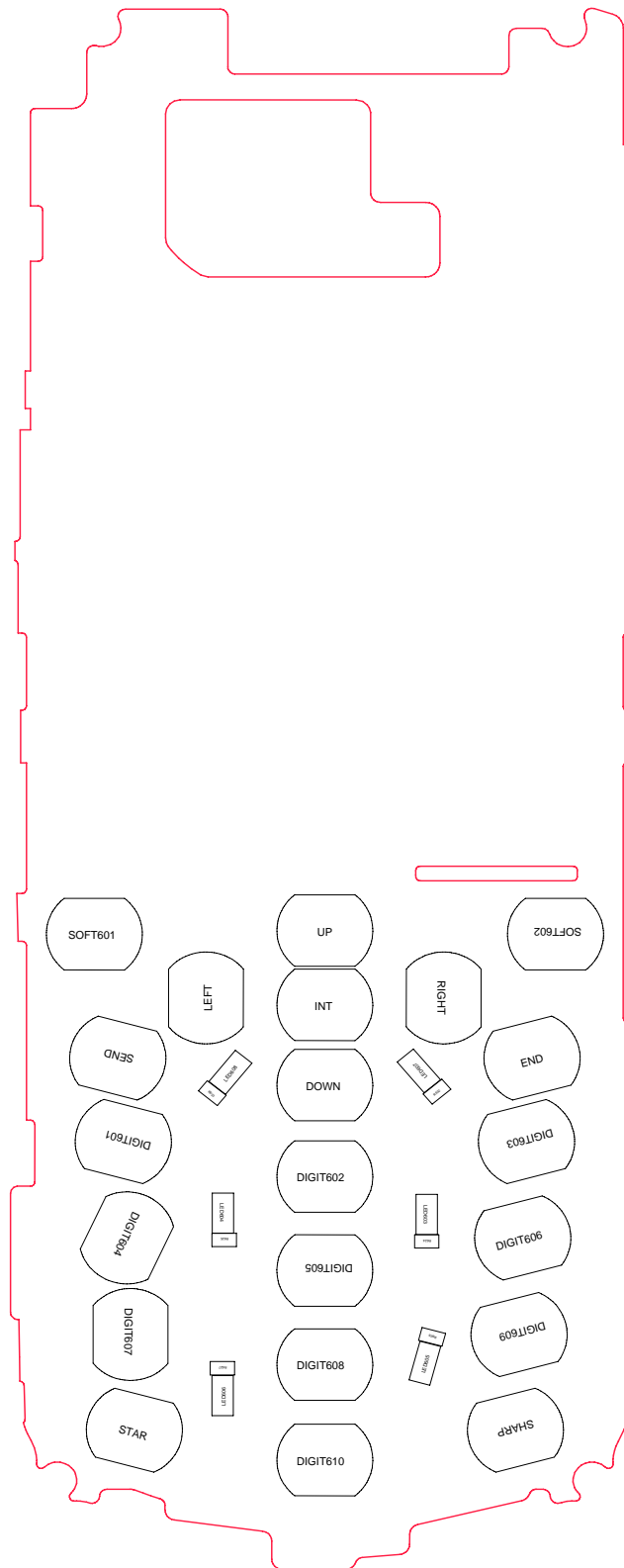


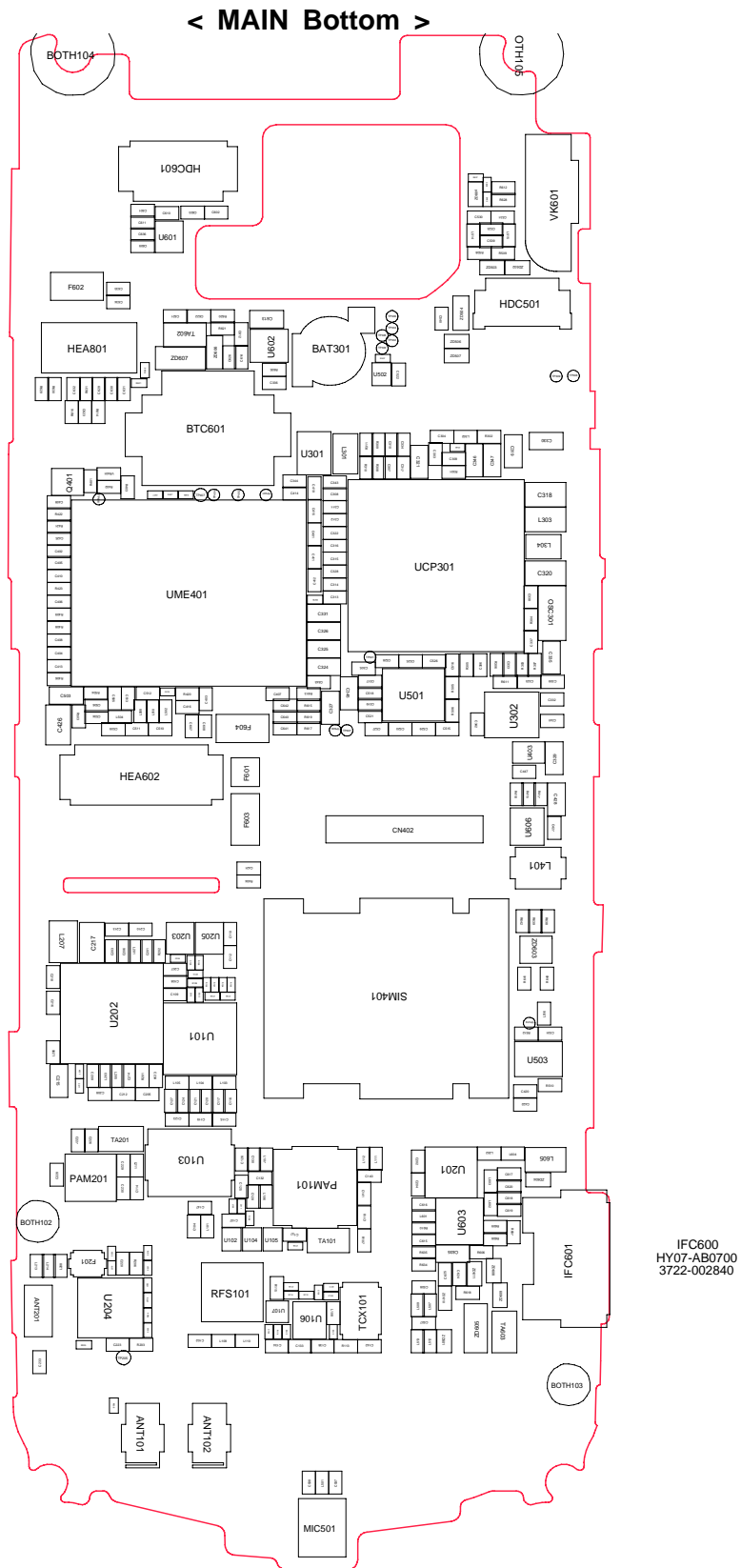
## 7-2. Base Band Solution Block Diagram



## 8. PCB Diagrams

< MAIN Top >

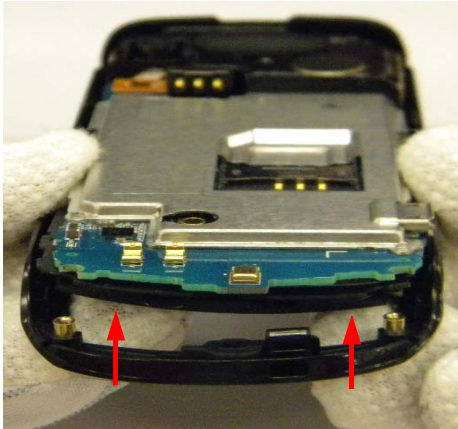
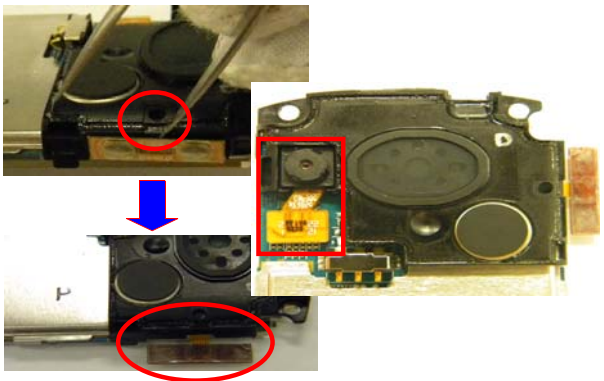
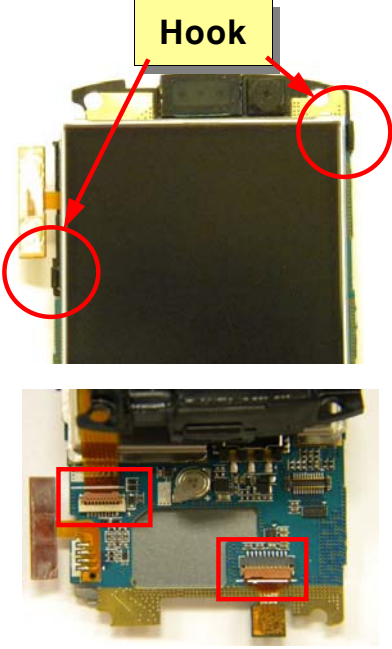
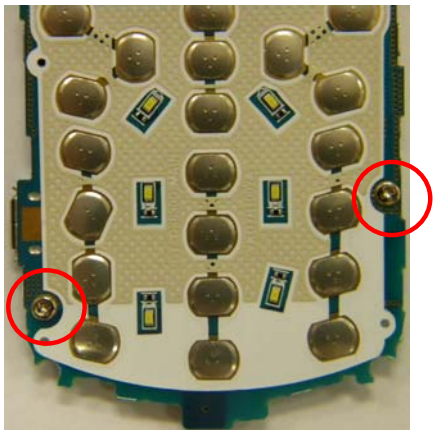


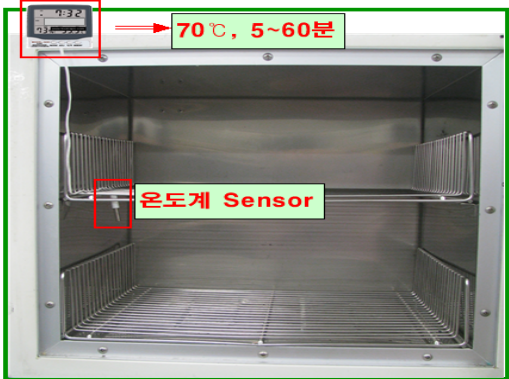
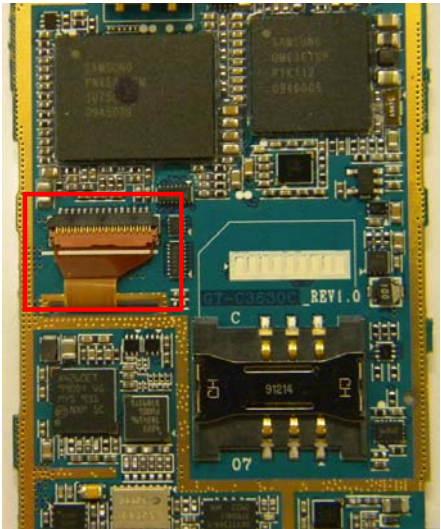



# 11. Disassembly and Assembly Instructions

## 11-1. Disassembly Instructions

<p style="text-align: center;">1</p> 	<p style="text-align: center;">2</p> 
<p>1) Unscrew 4 points of the Rear.</p> <p>※ <b>Caution</b></p> <p>1) Be careful not to make scratch and molding damage!</p>	<p>1) Use a disassembly tool and disassemble REAR's hooker 2 places.</p> <p>※ <b>Caution</b></p> <p>1) Be careful not to make scratch and molding damage!</p>
<p style="text-align: center;">3</p> 	<p style="text-align: center;">4</p> 
<p>1) Use a disassembly tool and disassemble REAR's hooker 2 place.</p> <p>※ <b>Caution</b></p> <p>1) Be careful not to make scratch and molding damage!</p>	<p>1) Lift and disassemble REAR.</p> <p>※ <b>Caution</b></p> <p>1) Be careful not to make scratch and molding damage!</p>

<p style="text-align: center;"><b>5</b></p> 	<p style="text-align: center;"><b>6</b></p> 
<p>1) Hold FRONT with fingers 2) Widen the space between PBA ass'y and FRONT. 3) Push up the PBA ass'y and Keypad together from backside. ※ <b>Caution</b> 1) Do not impose excessive force.</p>	<p>1) Disassemble Volume key FPCB from SPK Module. 2) Remove Camera connector ※ <b>Caution</b> 1) Do not impose excessive force to key FPCB.</p>
<p style="text-align: center;"><b>7</b></p> 	<p style="text-align: center;"><b>8</b></p> 
<p>1) Disassemble Speaker mold's hooker - 2 point. 2) Disassemble Speaker mold FPCB and CIF Camera connector. ※ <b>Caution</b> 1) Do not impose excessive force.</p>	<p>1) Unscrew 2 point - Shieldcan Screw ※ <b>Caution</b> 1) Be care of damage to MAIN PCB</p>

<p style="text-align: center;"><b>9</b></p> 	<p style="text-align: center;"><b>10</b></p> 
<p>1) Put PBA Ass'y into temperature chamber.  <b>※ Caution</b>                      1) temperature of chamber : 70℃,                      time : 5 min ~ 60 min.</p>	<p>1) Disassemble LCD FPCB Connector  <b>※ Caution</b>                      1) Be care of damage to LCD FPCB</p>
<p style="text-align: center;"><b>11</b></p> 	<p style="text-align: center;"><b>12</b></p>
<p>1) Separate LCD upper corner 2 places with PBA using a decomposition tool and lift.  <b>※ Caution</b>                      1) Be careful not to make scratch and molding damage!</p>	




## 11-2. Disassembly Assembly

1	2
	
<p>1) Remove a release paper of LCD backside.  2) Put LCD FPCB through PCB Hole.  3) Adjust LCD corner aligned with PCB silk line and assemble LCD.</p> <p>※ <b>Caution</b>  1) Be care of damage to LCD Panel.</p>	<p>1) Assemble LCD FPCB to Connector.</p> <p>※ <b>Caution</b>  1) Be care of damage to LCD FPCB</p>
3	4
	
<p>1) Place Shield can on PBA.  2) Assemble the Shield can screw - 2 point.</p> <p>※ <b>Caution</b>  1) Be care of damage to PBA  2) Torque : 1.1 ~ 1.3 Kgf-cm  Size : M1.4 x L2.0</p>	<p>1) Assemble CIF Camera connector.  2) Assemble Speaker mold FPCB</p> <p>※ <b>Caution</b>  1) Be care of damage to FPCB</p>



<p style="text-align: center;"><b>4</b></p>  <p>1) Assemble Speaker mold hook - 2point. 2) Place CIF Camera - Push the CIF Camera toward LCD. ※ <b>Caution</b> 1) Be care of damage to PBA</p>	<p style="text-align: center;"><b>5</b></p>  <p>1) Assemble Volume key FPCB to Speaker mold. 2) Assemble Camera connector 3) Place Camera on Speaker mold. ※ <b>Caution</b> 1) Be care of damage to PBA</p>
<p style="text-align: center;"><b>6</b></p>  <p>1) Place Keypad to FRONT. 2) Place PBA to FRONT. (from upper side to lower side) ※ <b>Caution</b> 1) Be careful of scratch and cosmetic damage.</p>	<p style="text-align: center;"><b>7</b></p>  <p>1) Cover REAR and assemble hooker to number Order place. ※ <b>Caution</b> 1) Be careful of scratch and cosmetic damage.</p>

8	9
	
<p>1) Assemble screw to number order place.</p> <p>※ <b>Caution</b></p> <p>1) Be careful of scratch and cosmetic damage.</p> <p>Torque : 1.2 ~ 1.4 Kgf · cm /</p> <p>Size : M1.4 * L4.0</p>	
10	11

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