

SAMSUNG

GSM TELEPHONE

GT-i5800

SERVICE *Manual*

GSM TELEPHONE

CONTENTS



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

Notice :

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

**SAMSUNG
ELECTRONICS**



GSPN (Global Service Partner Network)

Country	Web Site
North America	service.samsungportal.com
Latin America	latin.samsungportal.com
CIS	cis.samsungportal.com
Europe	europe.samsungportal.com
China	china.samsungportal.com
Asia	asia.samsungportal.com
Mideast & Africa	mea.samsungportal.com

2. Specification

2-1. GSM General Specification

	GSM850 Phase 1	EGSM 900 Phase 2	DCS1800 Phase 1	PCS1900	WCDMA2100	WCDMA900
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	880~915 925~960
ARFCN range	128~251	0~124 & 975~1023	512~885	512~810	UL:9612~9888 DL:10562~10838	UL:2712~2863 DL:2937~3088
Tx/Rx spacing	45MHz	45MHz	95MHz	80MHz	190MHz	45MHz
Mod. Bit rate/ Bit Period	270.833kbps 3.692us	270.833kbps 3.692us	270.833kbps 3.692us	270.833kbps 3.692us	3.84Mcps	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	FrameLength: 10ms Slotlength: 0.667ms
Modulation	0.3GMSK	0.3GMSK	0.3GMSK	0.3GMSK	QPSKHQPSK	QPSKHQPSK
MS Power	33dBm~5dBm	33dBm~5dBm	30dBm~0dBm	30dBm~0dBm	24dBm~-50dBm	24dBm~-50dBm
Power Class	5pcl ~ 19pcl	5pcl ~ 19pcl	0pcl ~ 15pcl	0pcl ~ 15pcl	3(max+24dBm)	3(max+24dBm)
Sensitivity	-102dBm	-102dBm	-100dBm	-100dBm	-106.7dBm	-106.7dBm
TDMA Mux	8	8	8	8	8	8
Cell Radius	35Km	35Km	2Km	2Km	2Km	2Km

2-2. 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

- GSM(2G EDGE/GPRS) 850/900/1800/1900
- WCDMA(3G HSDPA 3.6) 900/2100
- 3.2" WQVGA 16M TFT LCD
- 667MHz Application Processor
- Seamless Onebody
- 3M pixel AF Camera
- FM Radio with RDS and real time recording
- Bluetooth v2.1
- USB 2.0 FS / Wi-Fi 802.11n / GPS
- Music player : MP3/AAC/AAC+/eAAC+/WMA/AMR/MIDI/SP-MIDI/i-melody/WAV/MMF
- Accelerator Sensor / Proximity Sensor / G-sensor
- Touch WIZ 3.0 UI , Application store
- SMS/MMS/Email
- Multi-touch
- Multi-task manager
- Voice recording

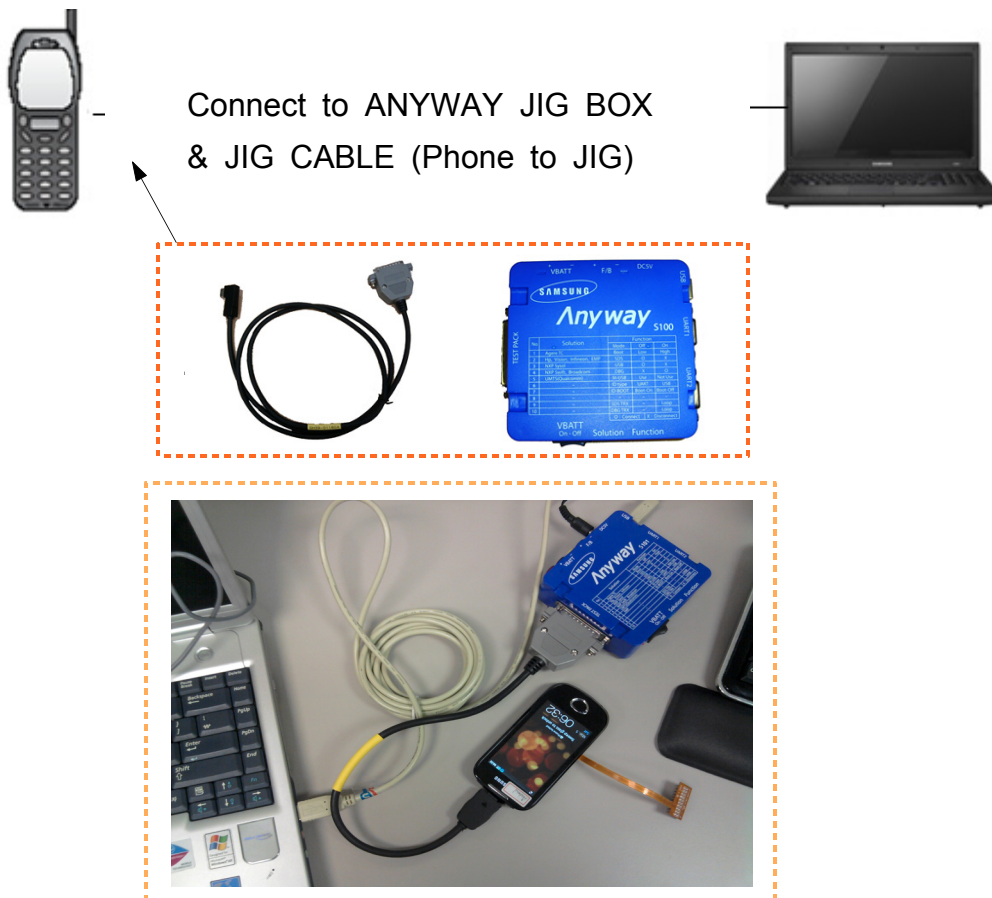
6. Level 1 Repair

6-1. S/W Download

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

- Downloader Program(**Odin Multi Downloader v4.17**)
- Binary files (Bootloader, PDA, Phone, CSC)
- OPS files
- USB Device Driver Files
- GT-I5800 Mobile Phone
- Data Cable
- JIG BOX (GH99-36900A)
- RF Test Cable (GH39-00985A)
- JIG Cable (GH39-01290A)
- Adapter (GH99-38251A)
- USB Cable

※ Settings



6-1-2. S/W Downloader Program

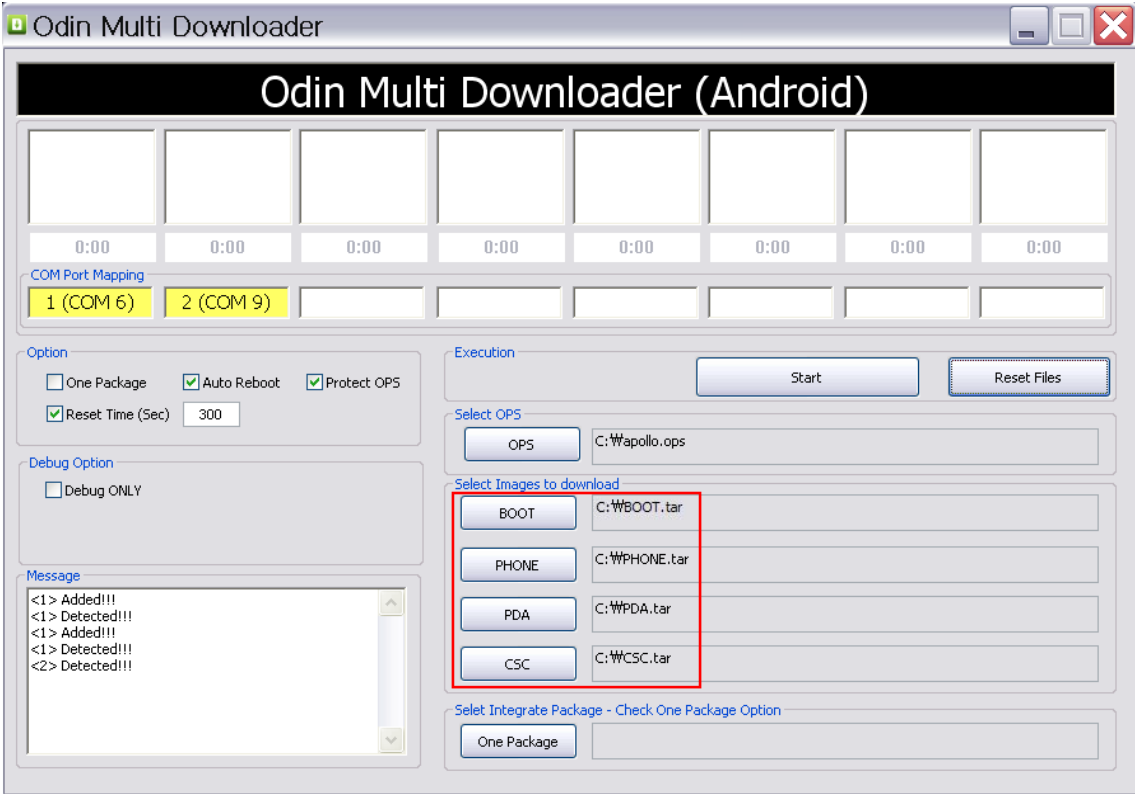
1. Driver setup (when using first)

- Unzip "Swallowtail_v4440_WHQL_Certified.zip" file. Execute "Setup.exe" file.
- Unzip "shrewsbury-V5_02_0_3-WHQLed-with-ADB-customer-free.zip".
Execute Setup.exe file.
- After connecting USB cable to device, then booting.
Device driver will be installed automatically.
- If you have a problem to install or driver are not installed.
Execute "Swallowtail_v4440_WHQL_Certified \i386 \SSCDUninstall.exe".
And rebooting.
Execute "shrewsbury-V5_02_0_3-WHQLed-with-ADB-customer-free.zip\i386 \SSCDUninstall.exe".
And rebooting.

2. Select OPS Open button and select apollo.ops. OPS file setup is only need first time.

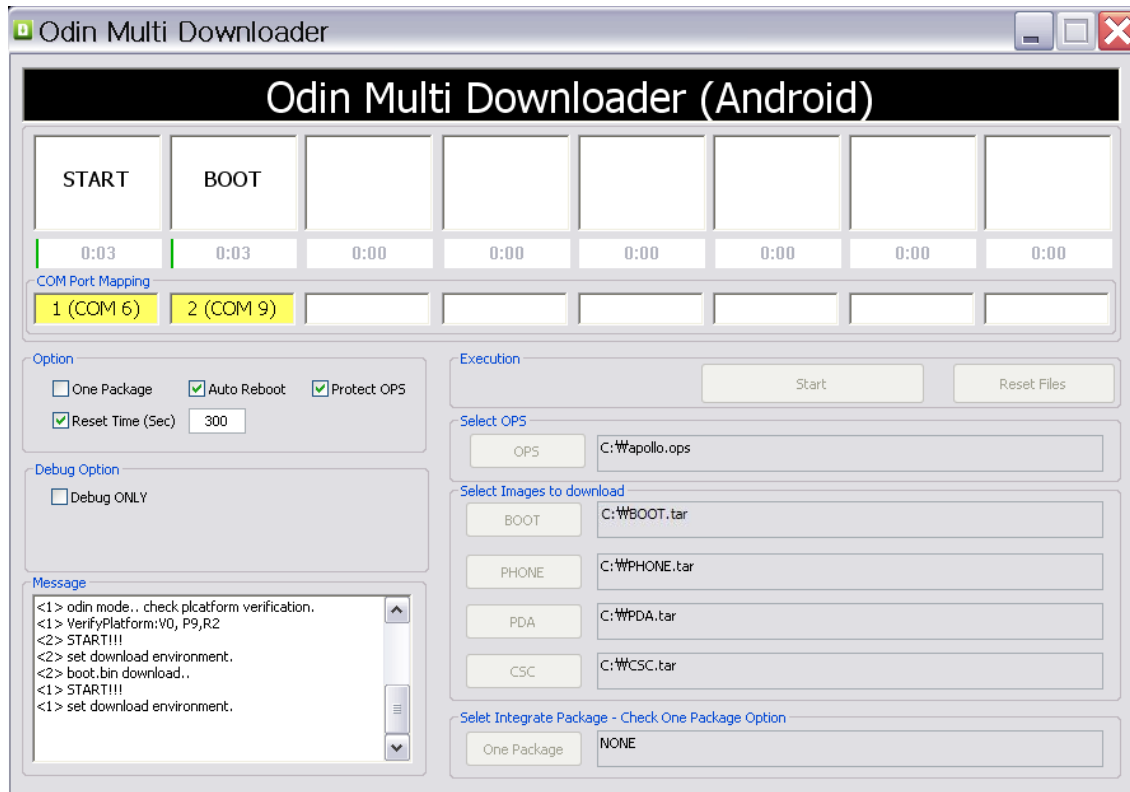


3. Select a image to be updated.

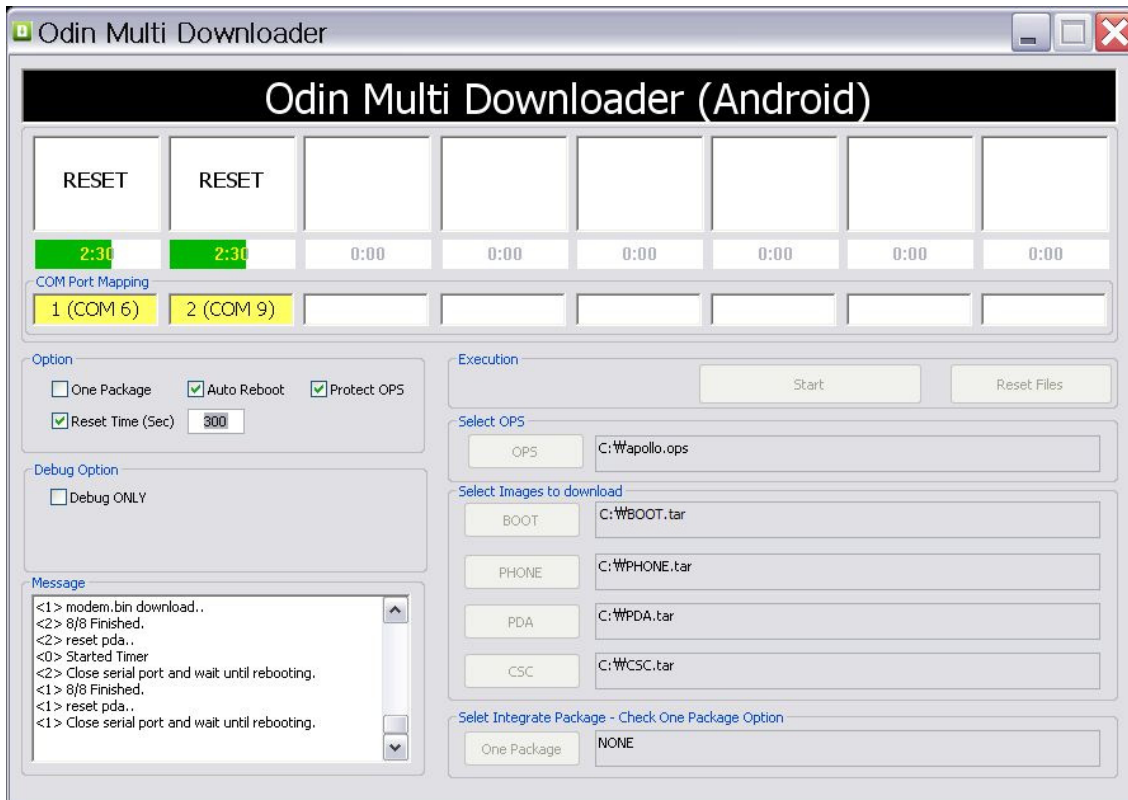


4. After turn off the cell phone.

And enter the download mode. [**Volume Down key + OK key + POWER key**].
After changing the mode, connect USB cable to device.
Then click Start to download!



5. Confirm “8/8 Finished” text message.
If you can see “SAMSUNG” logo, Download was complete.



6. Confirm the downloaded version name and etc. : ***#1234#**
Full Reset : ***2767*3855#**

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

- Repair in Shield Box, during detailed tuning. Take specially care of tuning or test, because specipcty of cellular phone is sensitive for surrounding interference(RF noise).
- Be careful to use a kind of magnetic object or tool, because performance of parts is damaged by the influence of magnetic force.
- Surely use a standard screwdriver when you disassemble this product, otherwise screw will be worn away.
- Use a thicken twisted wire when you measure level.
A thicken twisted wire has low resistance, therefore error of measurement is few.
- Repair after separate Test Pack and Set because for short danger (for example an overcurrent and furious flames of parts etc) when you repair board in condition of connecting Test Pack and tuning on.
- Take specially care of soldering, because Land of PCB is small and weak in heat.
- Surely tune on/off while using AC power plug, because a repair of battery charger is dangerous when tuning ON/OFF PBA and Connector after disassembling charger.
- Don't use as you pleases after change other material than replacement registered on SEC System. Otherwise engineer in charge isn't charged with problem that you don't keep this rules.

1-2. ESD(Electrostatically Sensitive Devices) Precaution

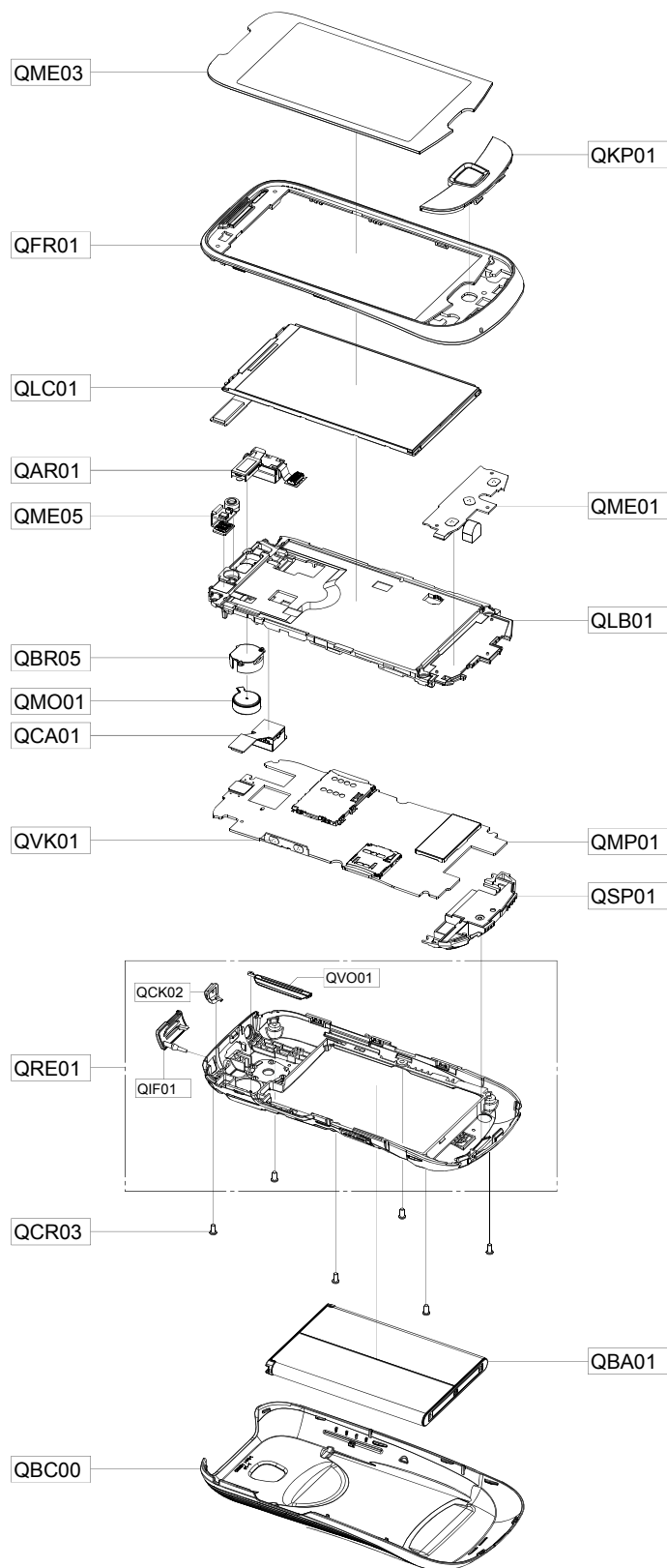
Several semiconductor may be damaged easily by static electricity. Such parts are called by ESD (Electrostatically Sensitive Devices), for example IC,BGA chip etc. Read Precaution below.

You can prevent from ESD damage by static electricity.

- Remove static electricity remained your body before you touch semiconductor or parts with semiconductor. There are ways that you touch an earthed place or wear static electricity prevention string on wrist.
- Use earthed soldering steel when you connect or disconnect ESD.
- Use soldering removing tool to break static electricity. , otherwise ESD will be damaged by static electricity.
- Don't unpack until you set up ESD on product. Because most of ESD are packed by box and aluminum plate to have conductive power,they are prevented from static electricity.
- You must maintain electric contact between ESD and place due to be set up until ESD is connected completely to the proper place or a circuit board.

4. Exploded View and Parts List

4-1. Cellular phone Exploded View



7. Level 2 Repair

7-1. Disassembly and Assembly Instructions

7-1-1. Disassembly

1

Release Screw 6 Point at REAR



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

2

Disjoint Hook on the bottom of the REAR



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

3

Disjoint hook on the both side of the REAR



1) Push out REAR to both side.

4

Disassemble REAR



1) Lift REAR upward.

7. Level 2 Repair

<div data-bbox="164 199 808 262" data-label="Caption"> <p>5 Disassemble FPCB.</p> </div> <div data-bbox="256 279 662 835" data-label="Image"> </div> <div data-bbox="147 871 808 1045" data-label="Text"> <p>1) Detach Ear jack FPCB with tweezers. 2) Detach Power key FPCB with tweezers.</p> </div>	<div data-bbox="824 199 1469 262" data-label="Caption"> <p>6 Detach Side key FPCB</p> </div> <div data-bbox="881 367 1385 741" data-label="Image"> </div> <div data-bbox="808 871 1469 1045" data-label="Text"> <p>1) Be careful not to damage to FPCB (Use tweezers!)</p> </div>
<div data-bbox="164 1062 808 1125" data-label="Caption"> <p>7 Disassemble Main PBA from the FRONT Ass'y.</p> </div> <div data-bbox="232 1125 703 1751" data-label="Image"> </div> <div data-bbox="147 1808 808 1921" data-label="Text"> <p>1) Hold up Main PBA. 2) Detach LCD FPCB with tweezers.</p> </div>	<div data-bbox="824 1062 1469 1125" data-label="Caption"> <p>8 Disassemble Main PBA from the FRONT Ass'y.</p> </div> <div data-bbox="881 1125 1341 1801" data-label="Image"> </div> <div data-bbox="808 1808 1469 1921" data-label="Text"> <p>1) Detach Sub-key FPCB with tweezers.</p> </div>

7-1-1. Assembly

<div data-bbox="170 252 795 315" style="border: 1px solid black; padding: 5px;"> <p>1 Set a PBA and FRONT Ass'y</p> </div> <div data-bbox="186 388 787 882"> </div>	<div data-bbox="828 252 1453 315" style="border: 1px solid black; padding: 5px;"> <p>2 Assemble Camera module</p> </div> <div data-bbox="925 325 1364 934"> </div>
<p>1) Detach Camera module from Bracket with tweezers. 2) Assemble Camera module on PBA.</p>	
<div data-bbox="170 1081 795 1144" style="border: 1px solid black; padding: 5px;"> <p>3 Assemble LCD FPCB/ Sub-key FPCB</p> </div> <div data-bbox="203 1155 755 1785"> </div>	<div data-bbox="828 1081 1453 1144" style="border: 1px solid black; padding: 5px;"> <p>4 Assemble PBA on FRONT Ass'y</p> </div> <div data-bbox="909 1165 1347 1795"> </div>
<p>1) Be careful not to make damage to FPCB</p>	<p>1) Assemble Ear jack FPCB/ Power key FPCB.</p>

7. Level 2 Repair

5

Assemble the hook on the top of the rear



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

6

Assemble the hooks on the bottom of the rear



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

7

Assemble the hook on both side of the rear



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

8

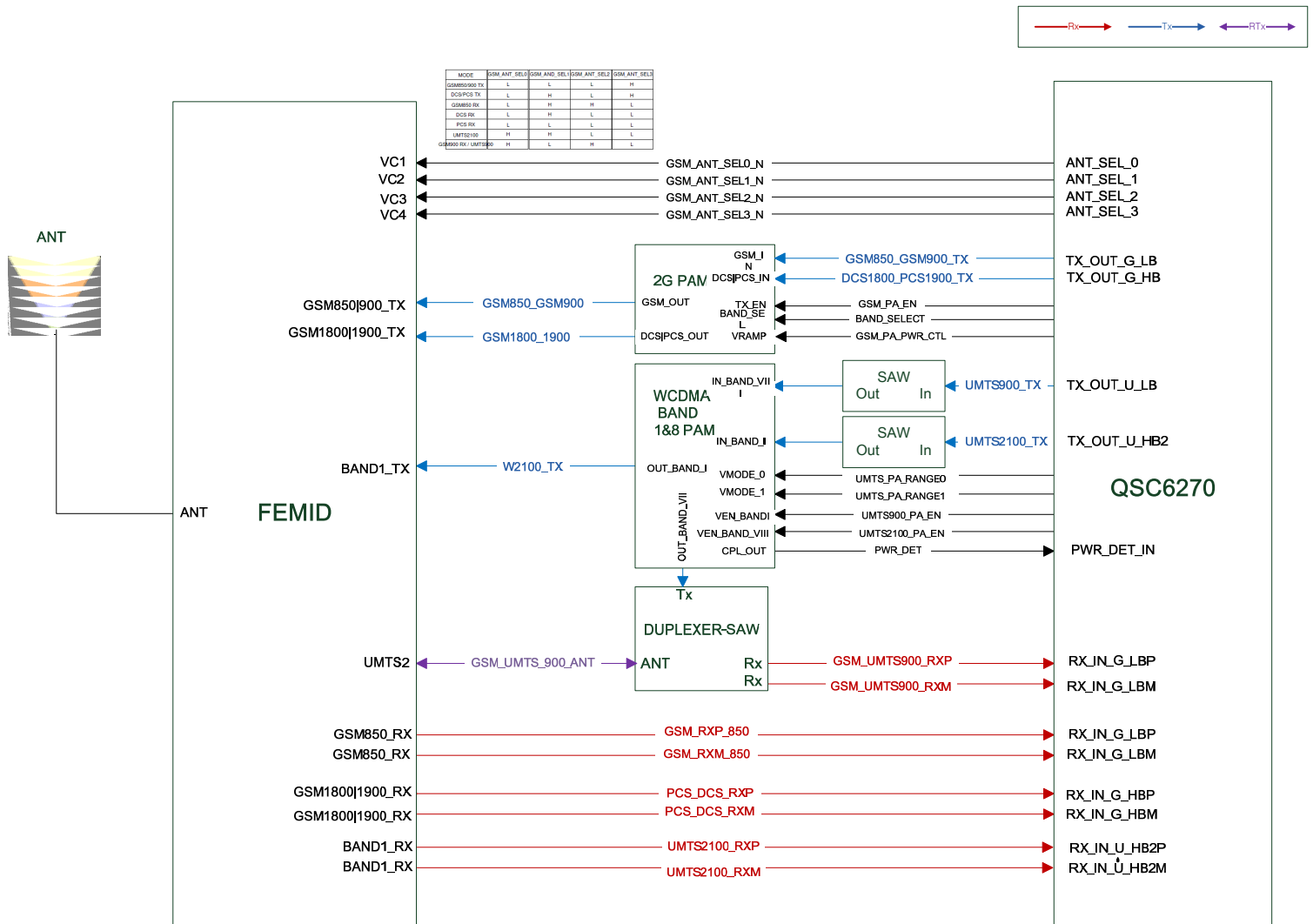
Drive Screws at 6 points with torque
1.2 +/- 0.1 Kgf/cm².



8. Level 3 Repair

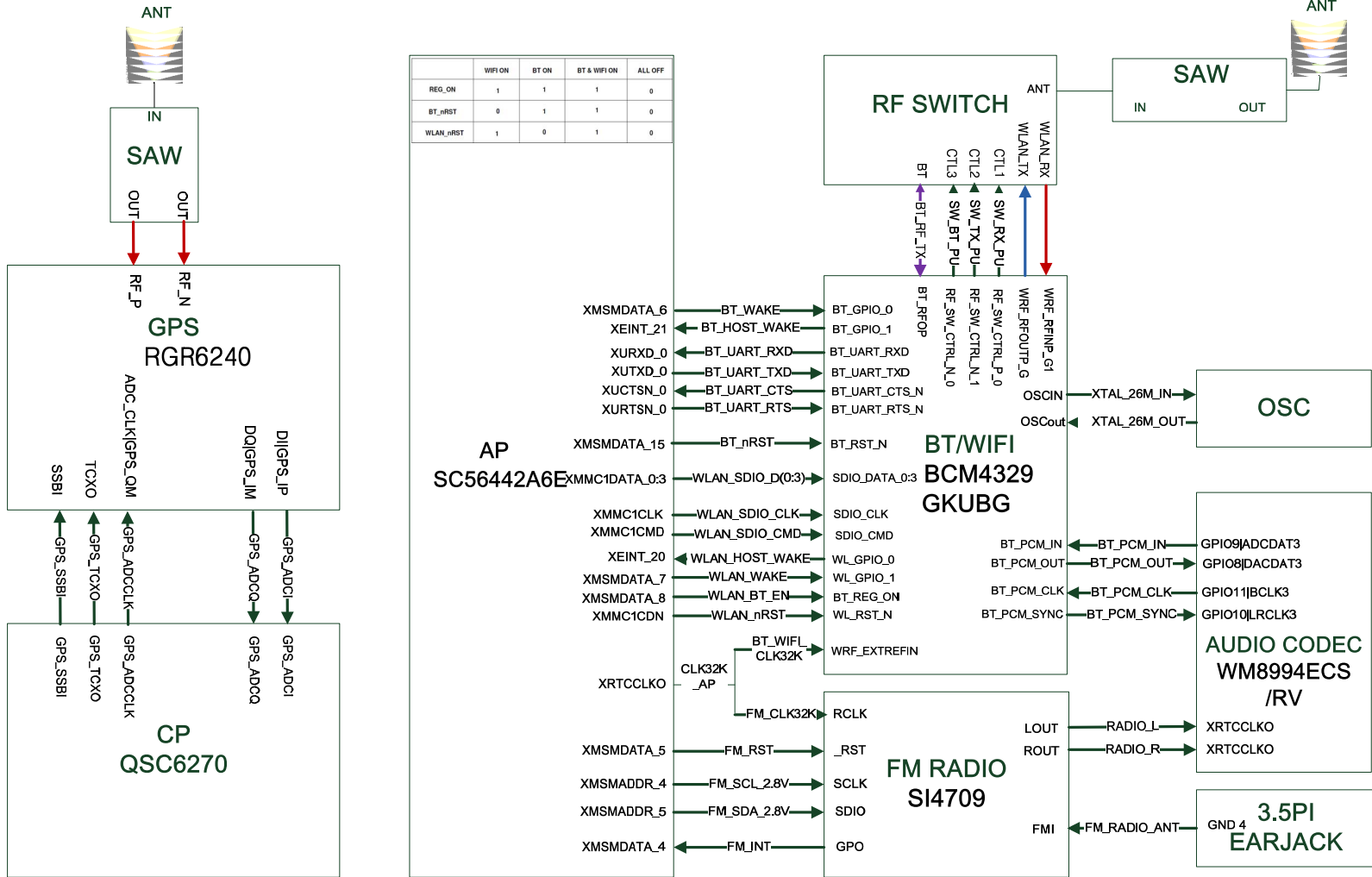
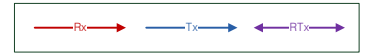
8-1. Block Diagram

8-1-1

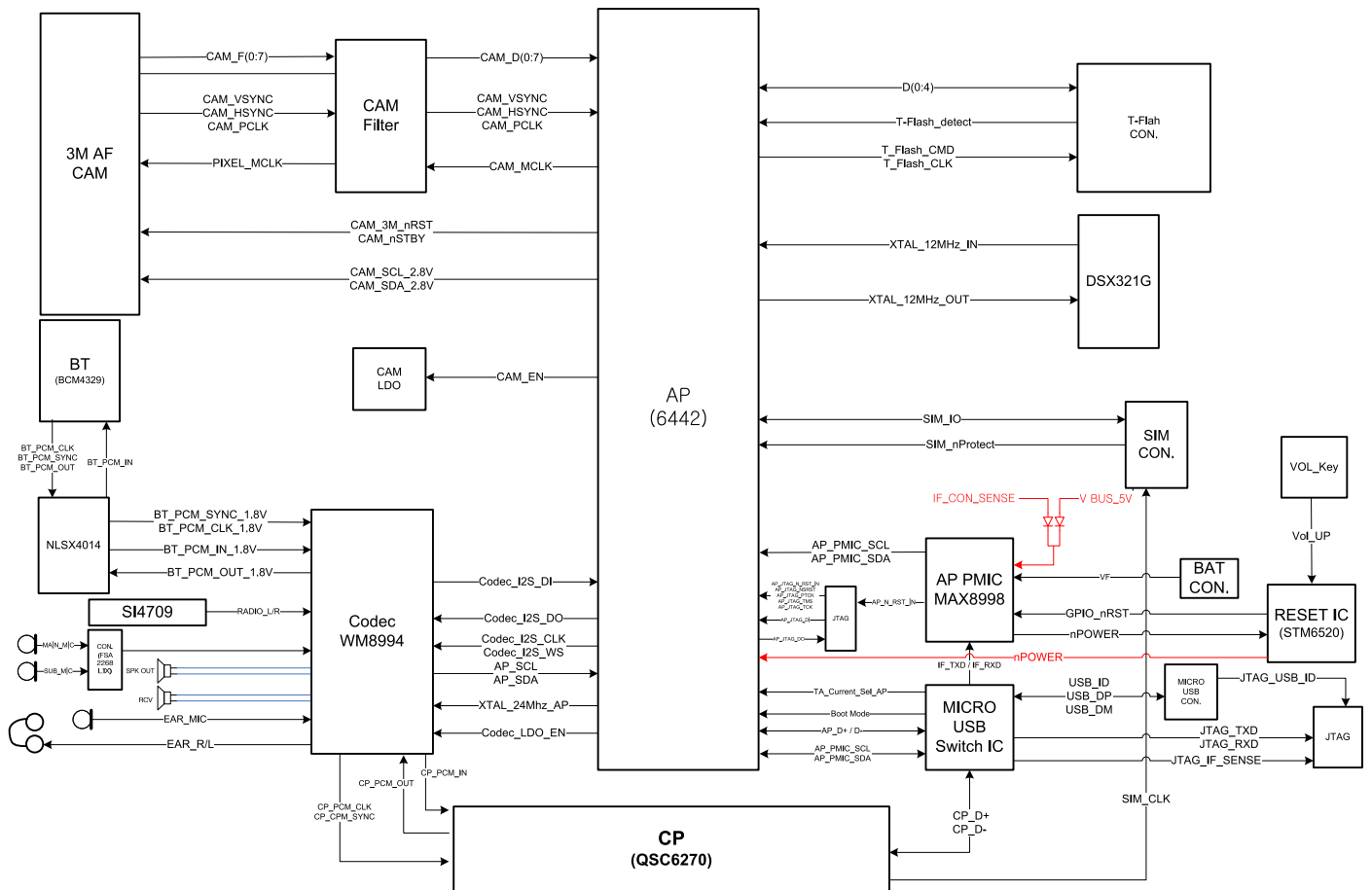


8-1-2

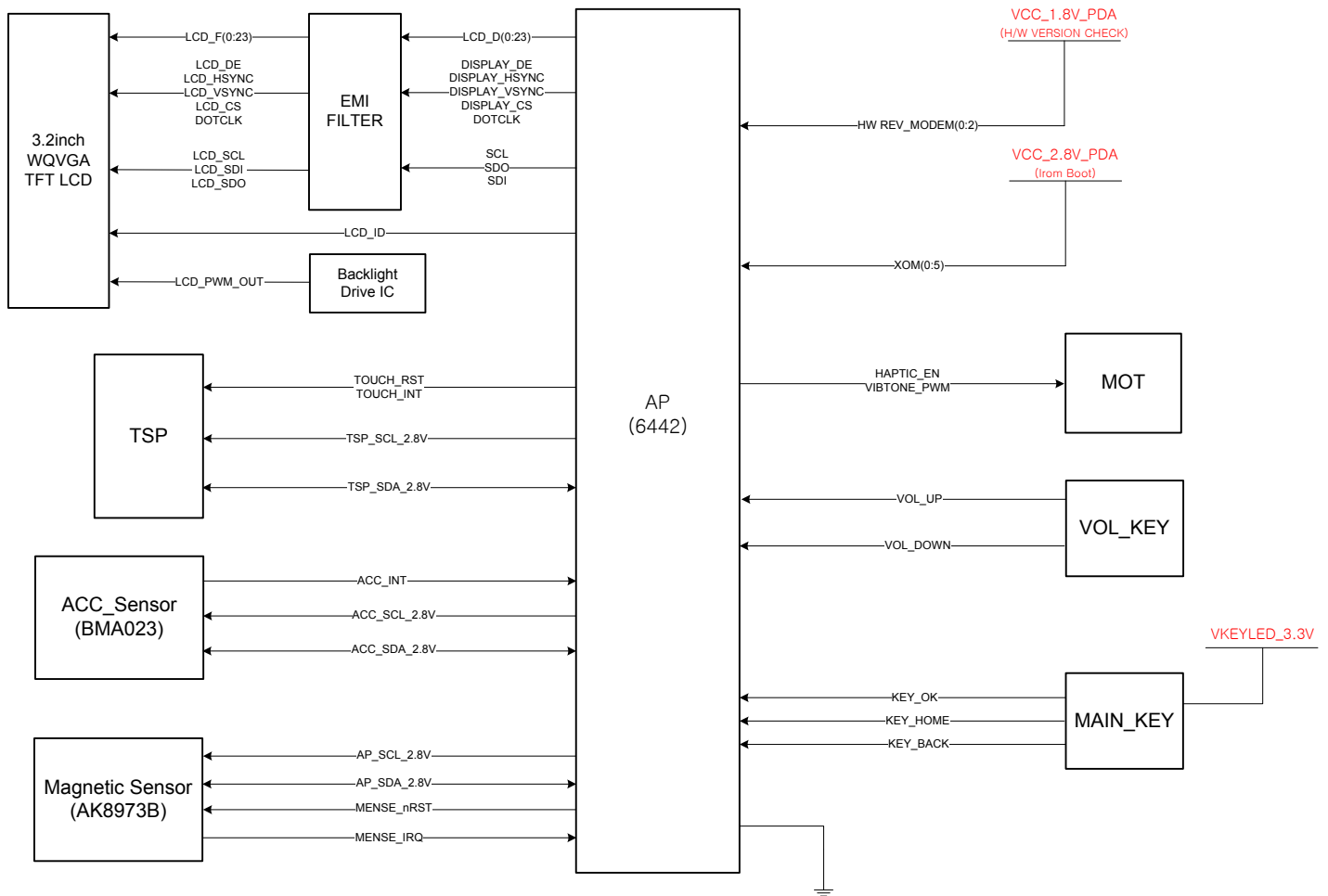
GT-I5800 RF BLOCK DIAGRAM #2



8-1-3



8-1-4

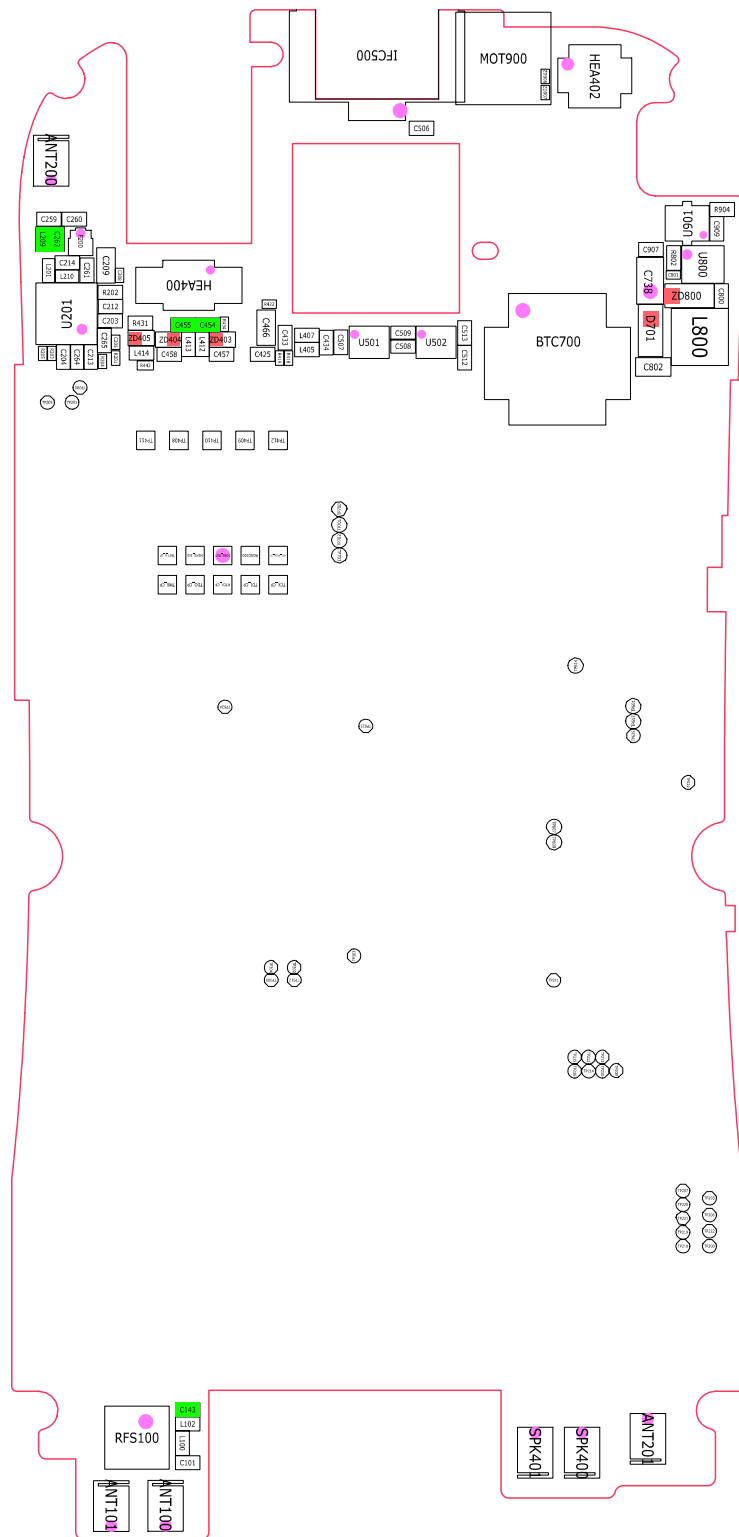


8-2. PCB Diagrams

8-2-1. Top



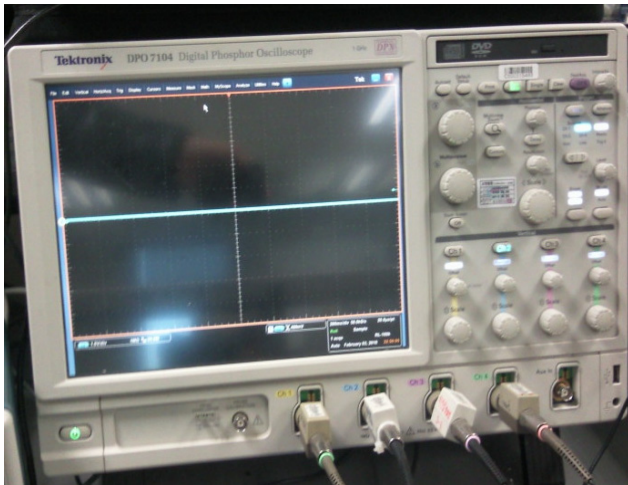
8-2-1. Bottom



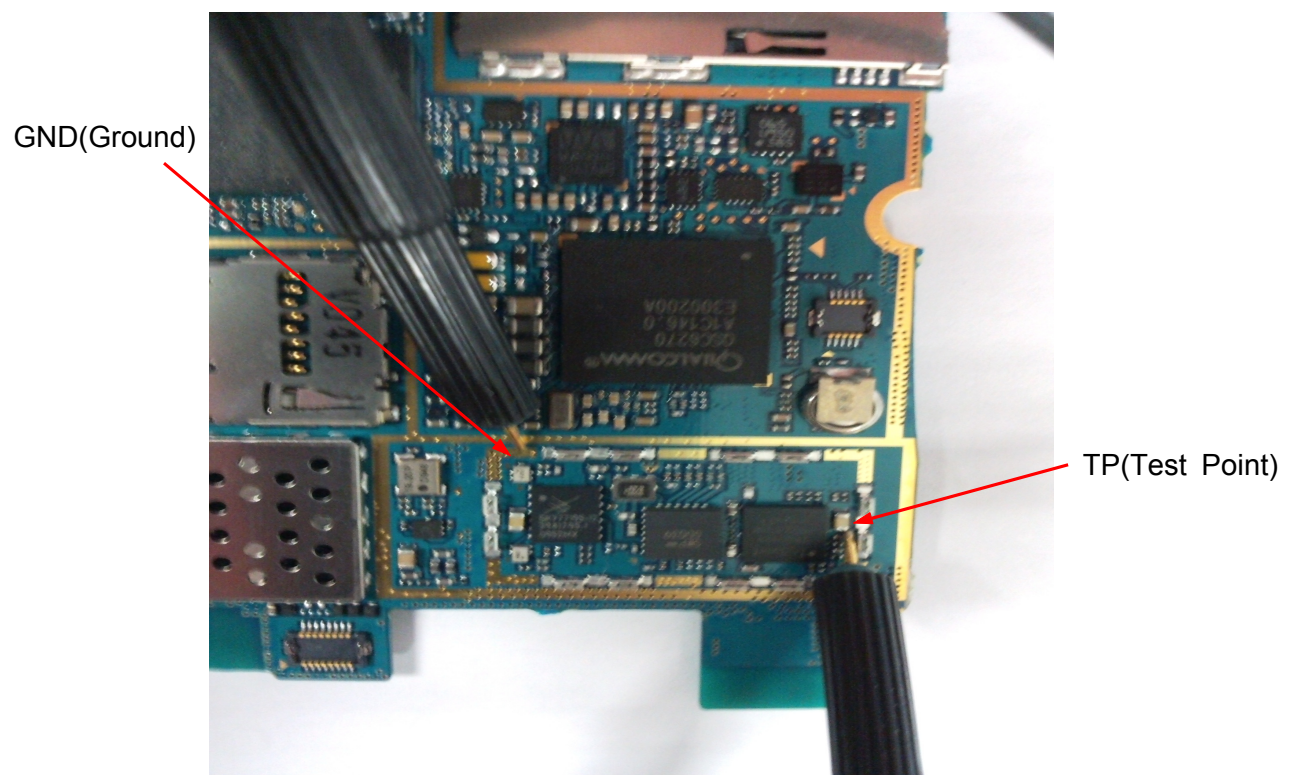
8-3. Flow Chart of Troubleshooting

※ presetting methods for checking TP

- GND & TP(exp. Vbatt=C115, C118, C128, C130) using Oscilloscope
- look over the coming out signal.

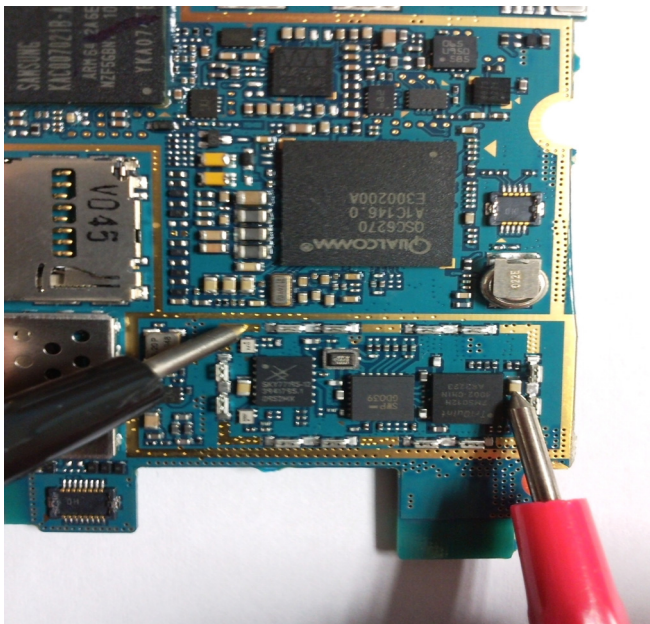


← Oscilloscope □





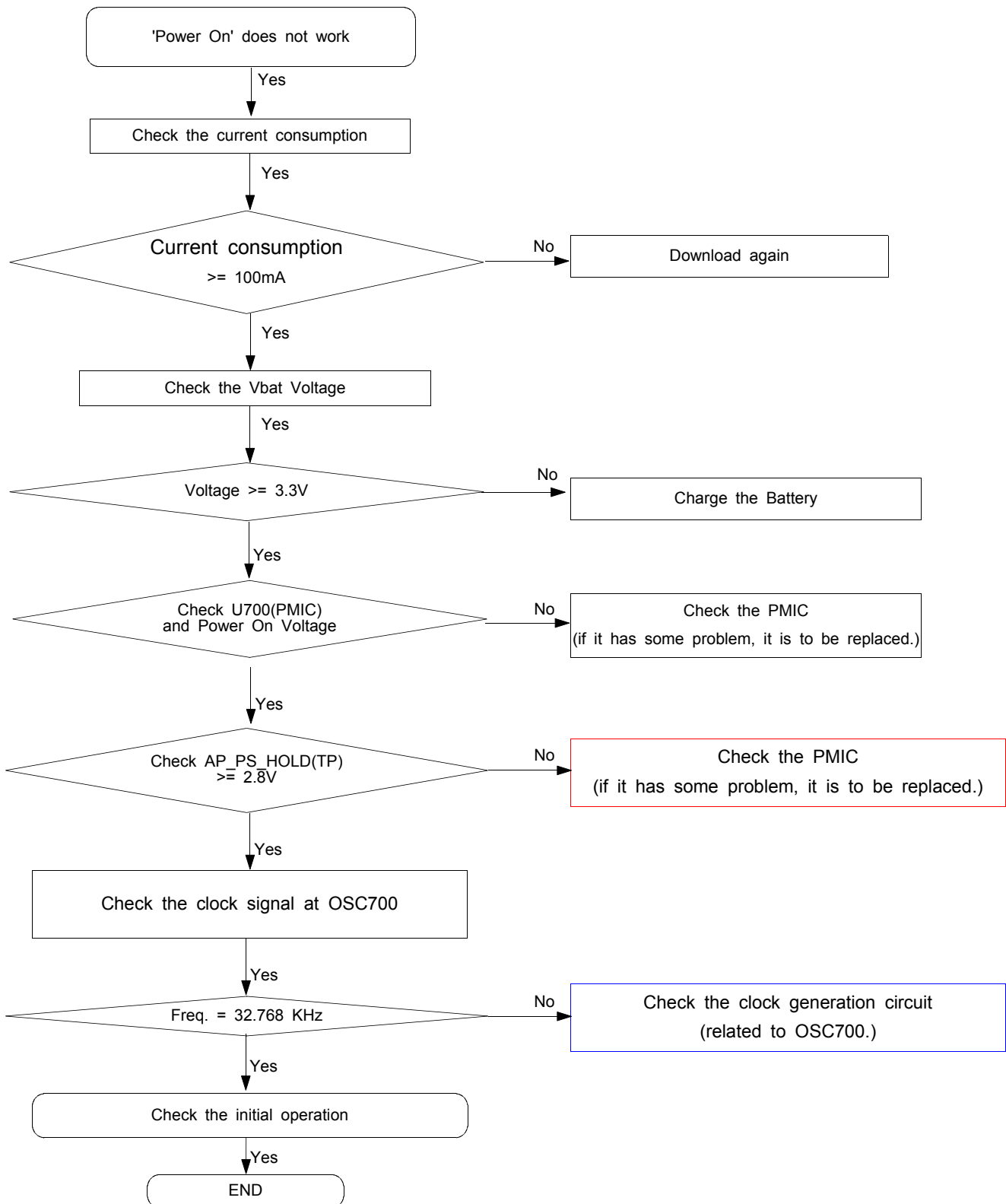
← Multi-meter

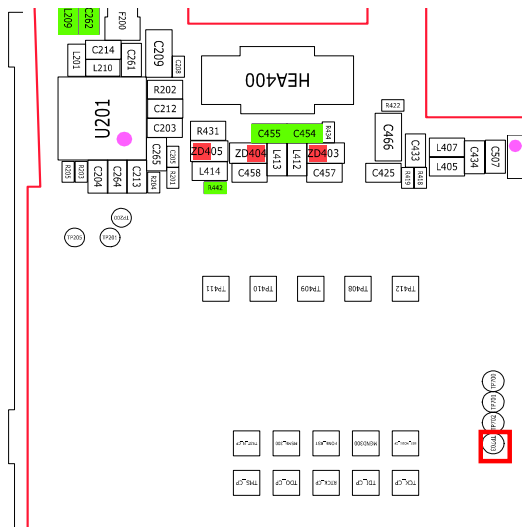
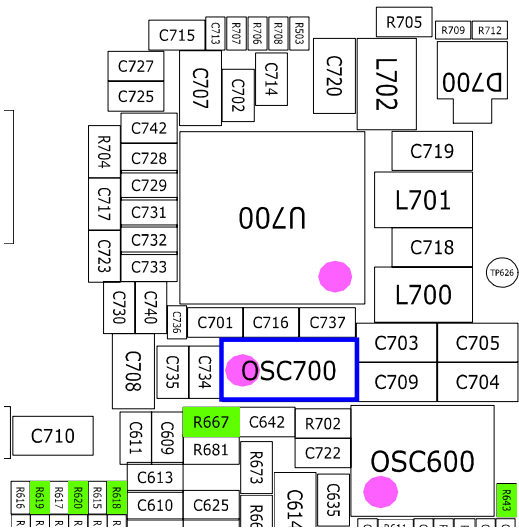
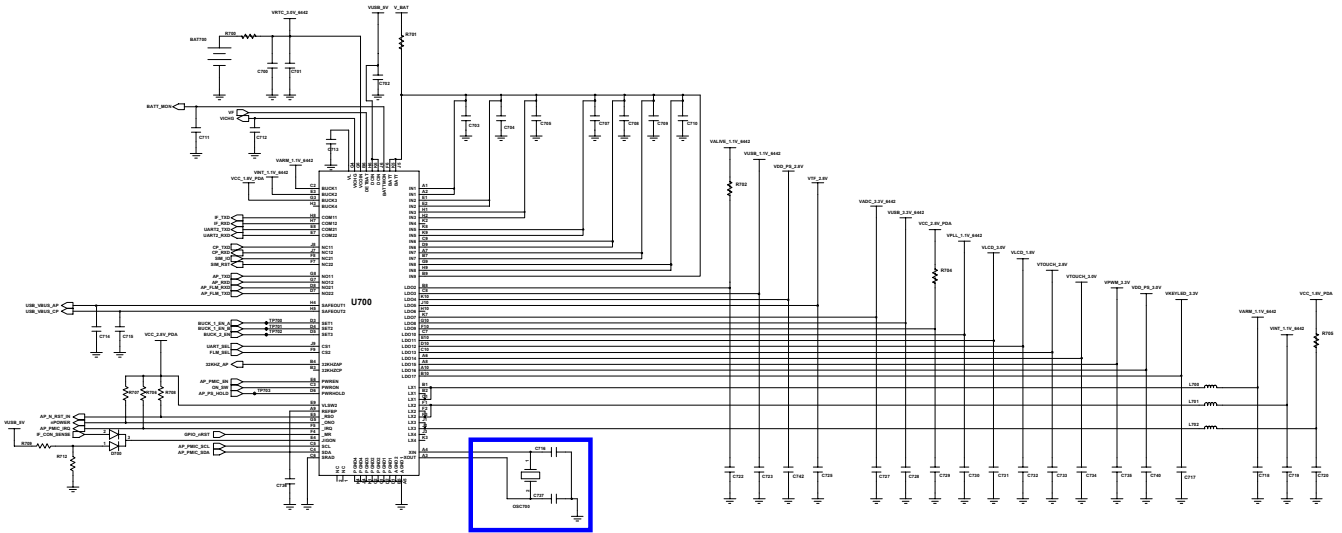


← Checking the TP(test point) using Multi-meter

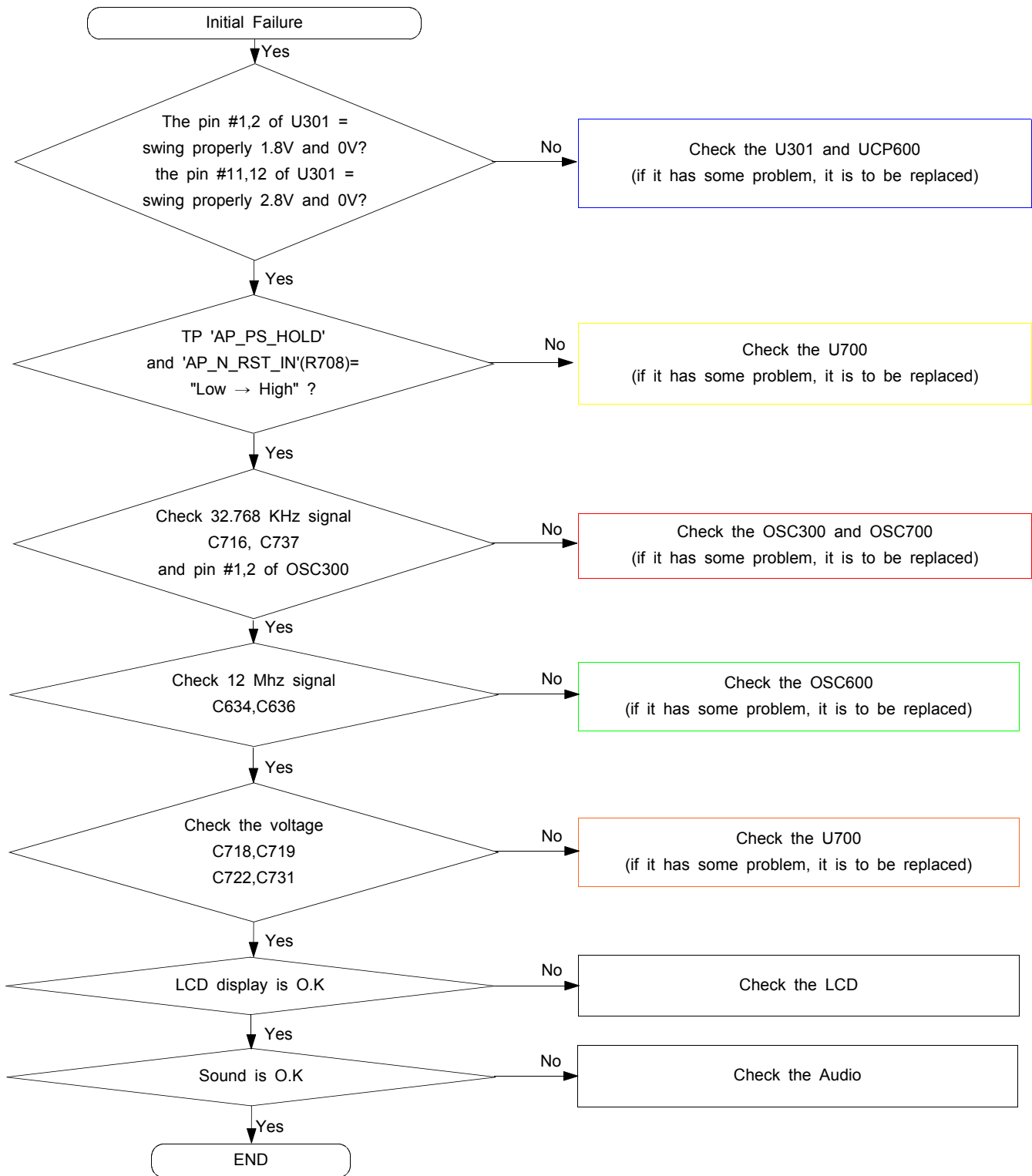
- EX) to look up the TP, shunt Cap.
- if checking the GND, you can listen "beep"
- if checking the Signal, you can't listen it.

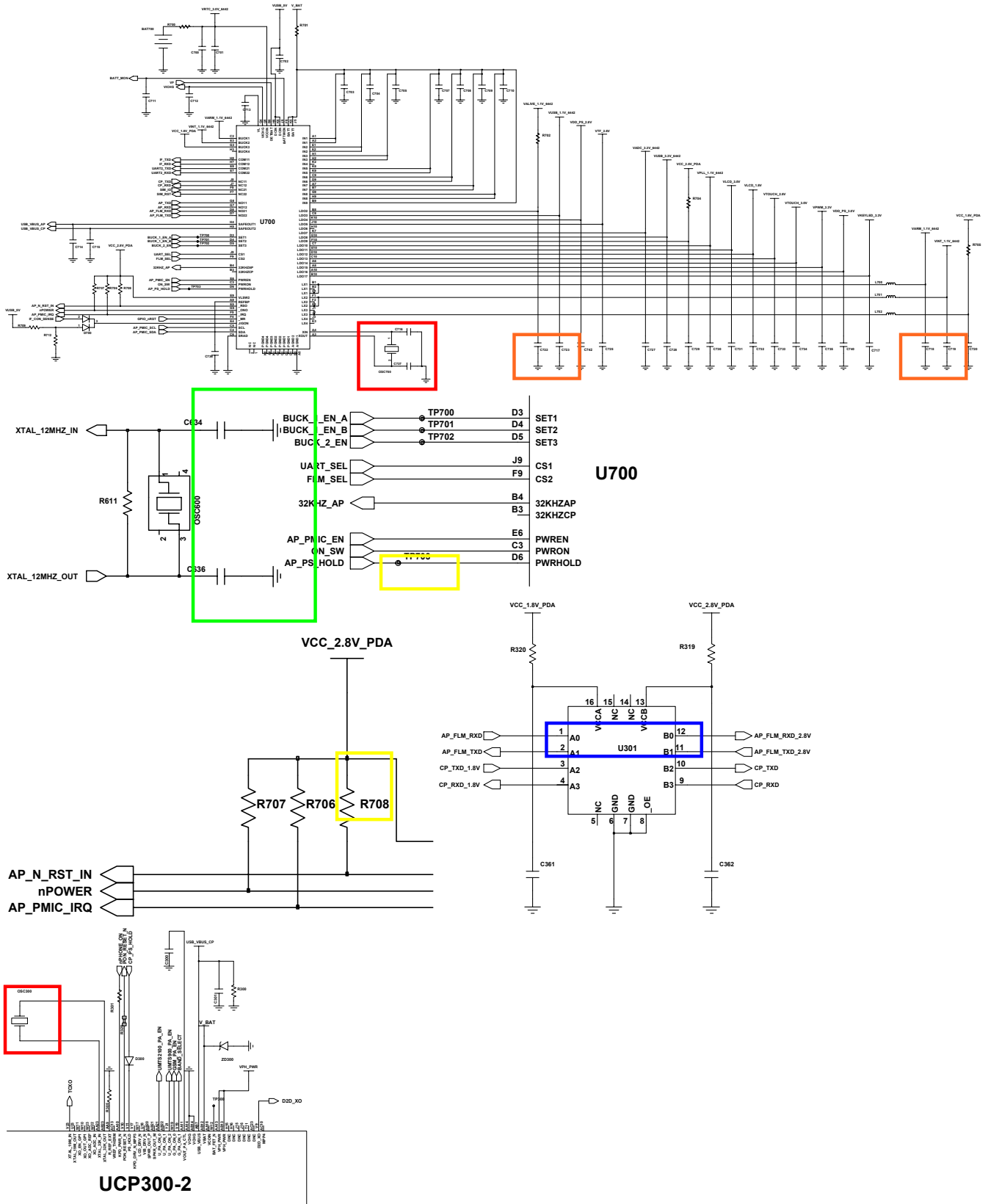
8-3-1. Power On



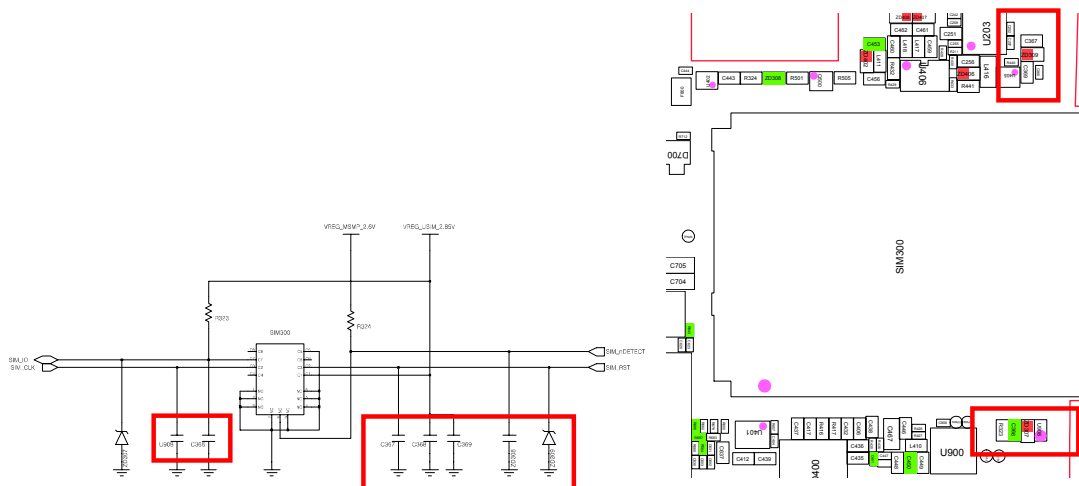
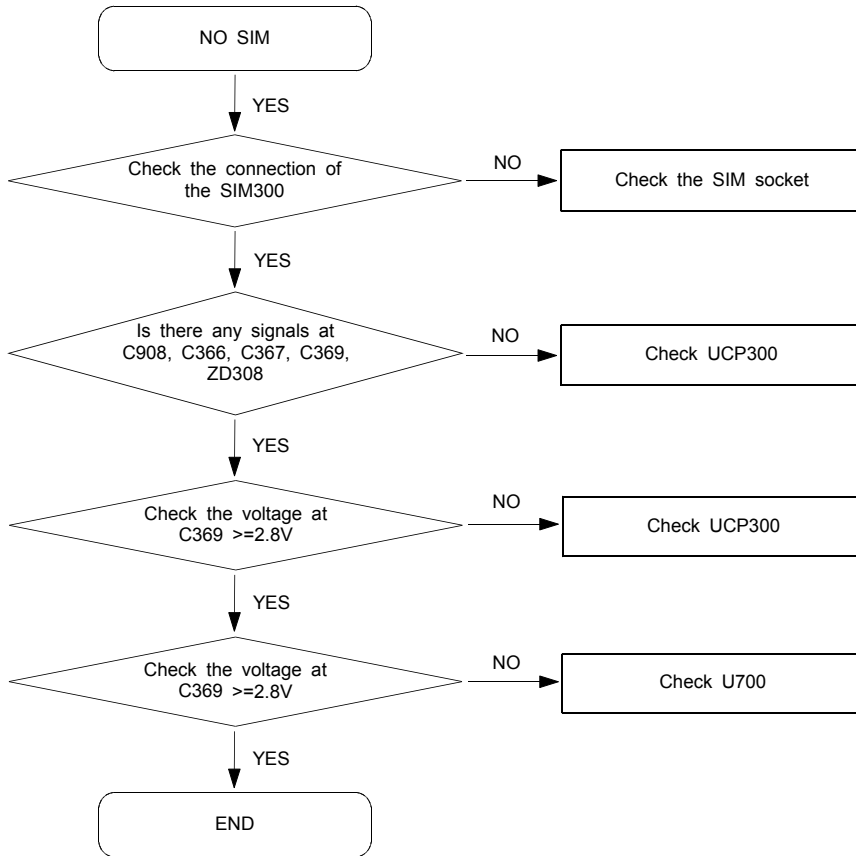


8-3-2. Initial

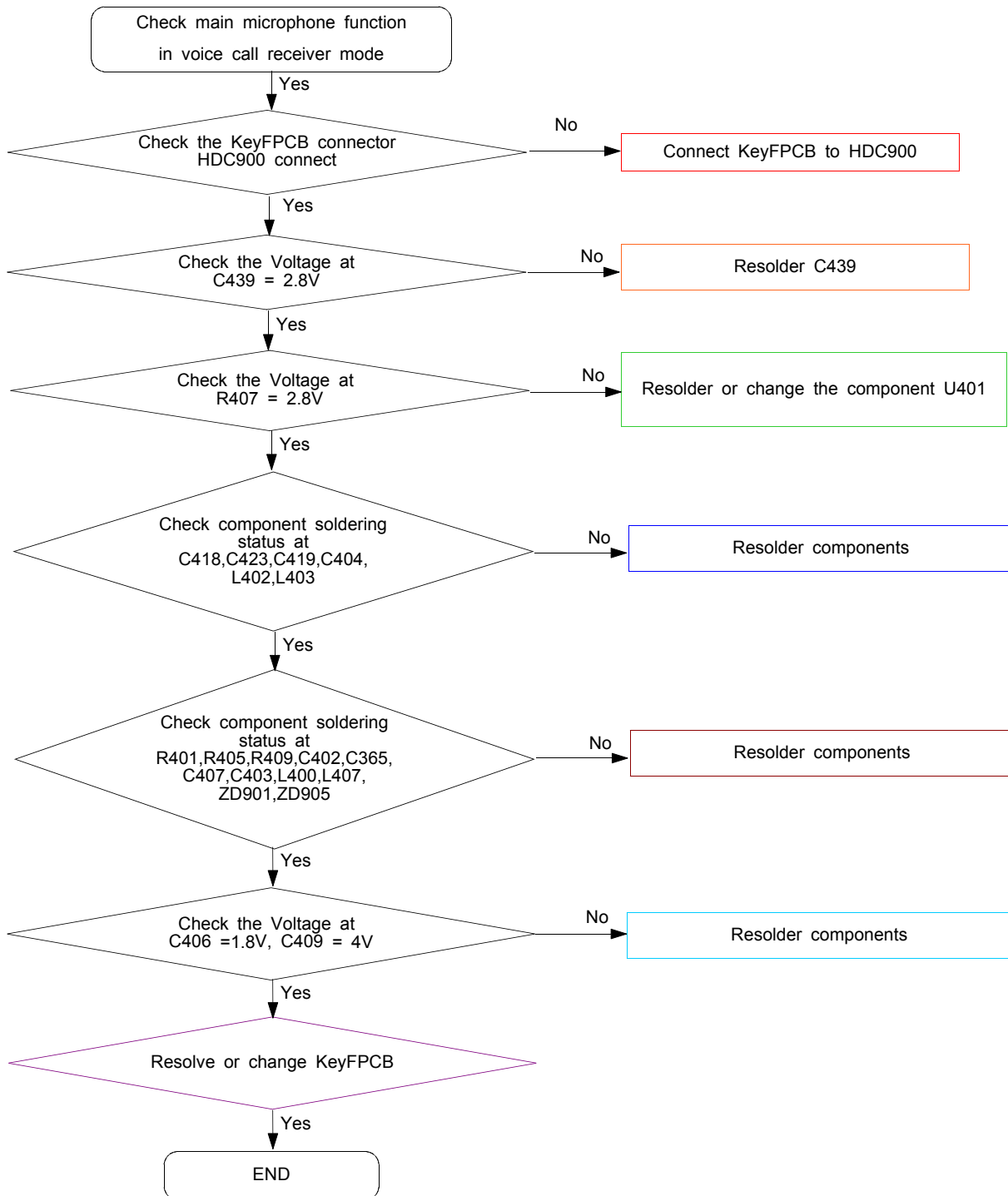




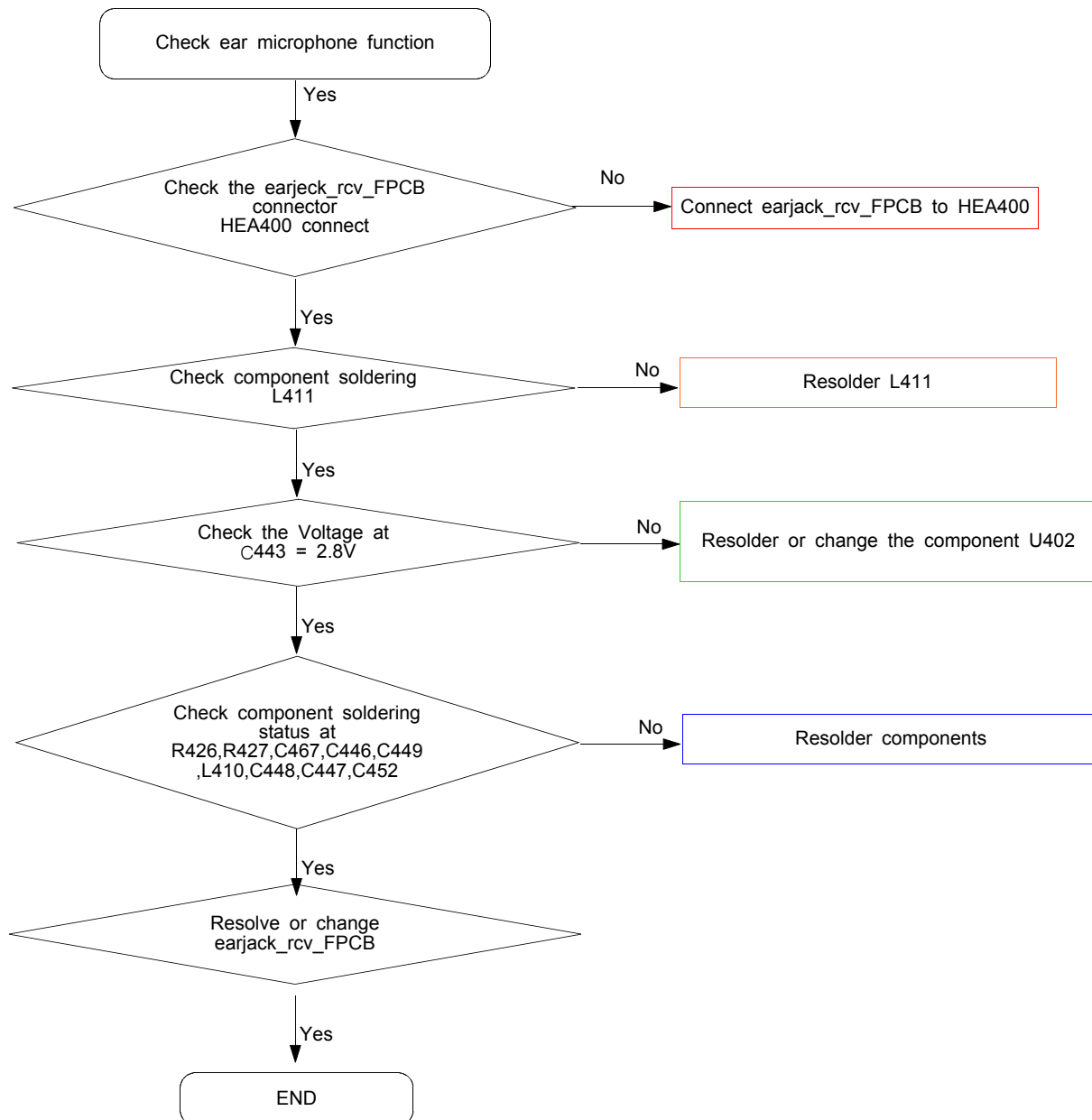
8-3-3. SIM

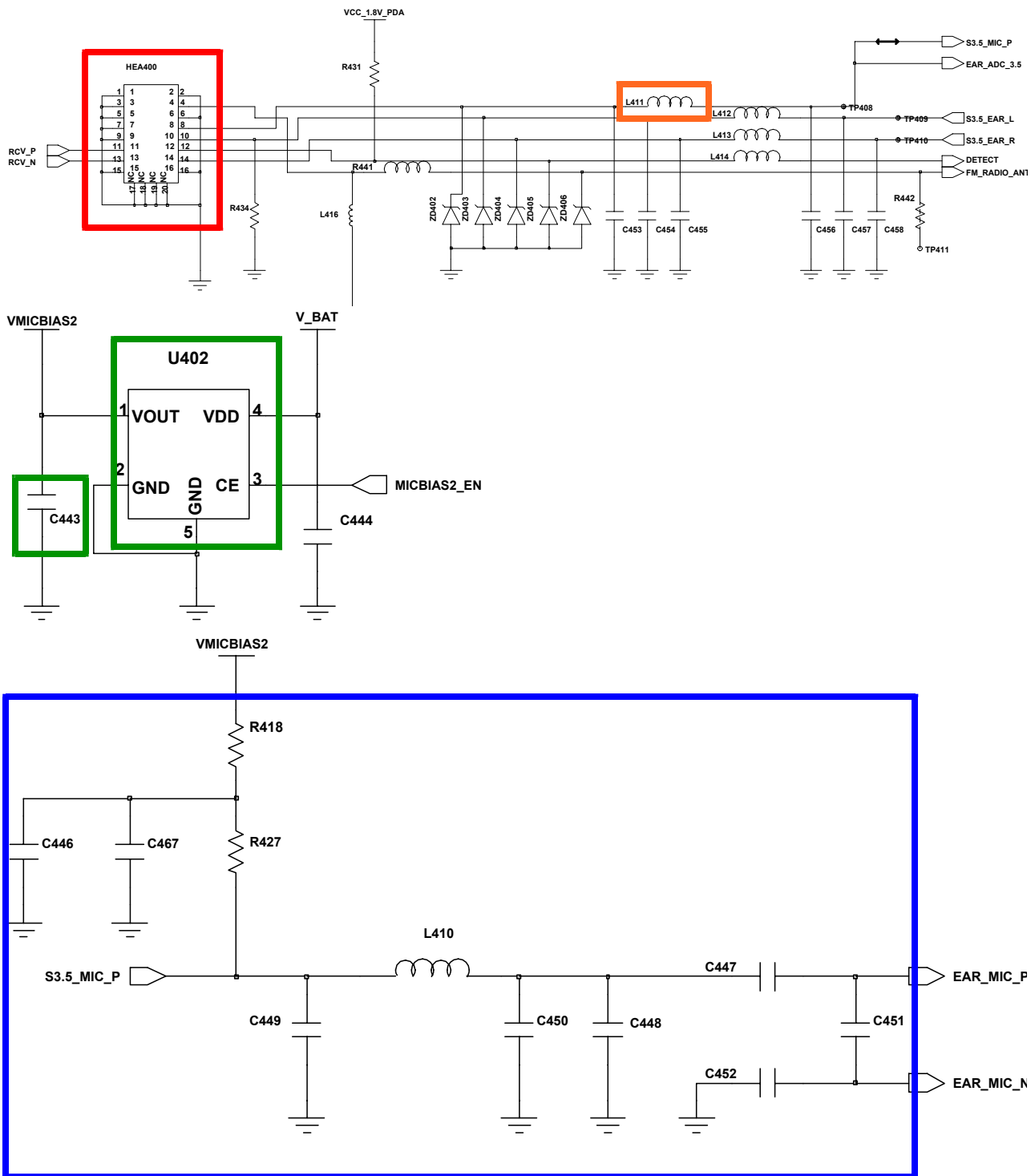


8-3-4. Main Microphone

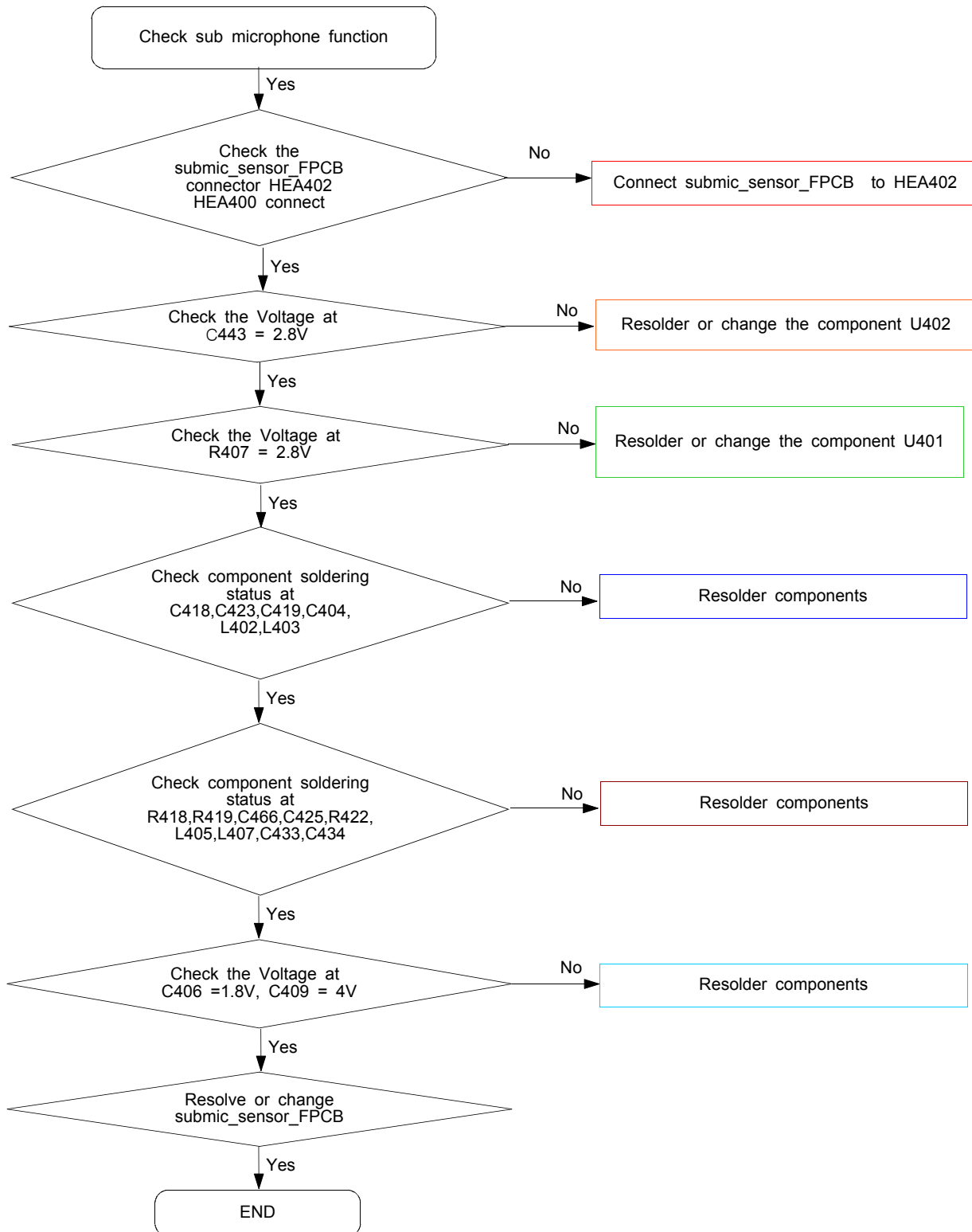


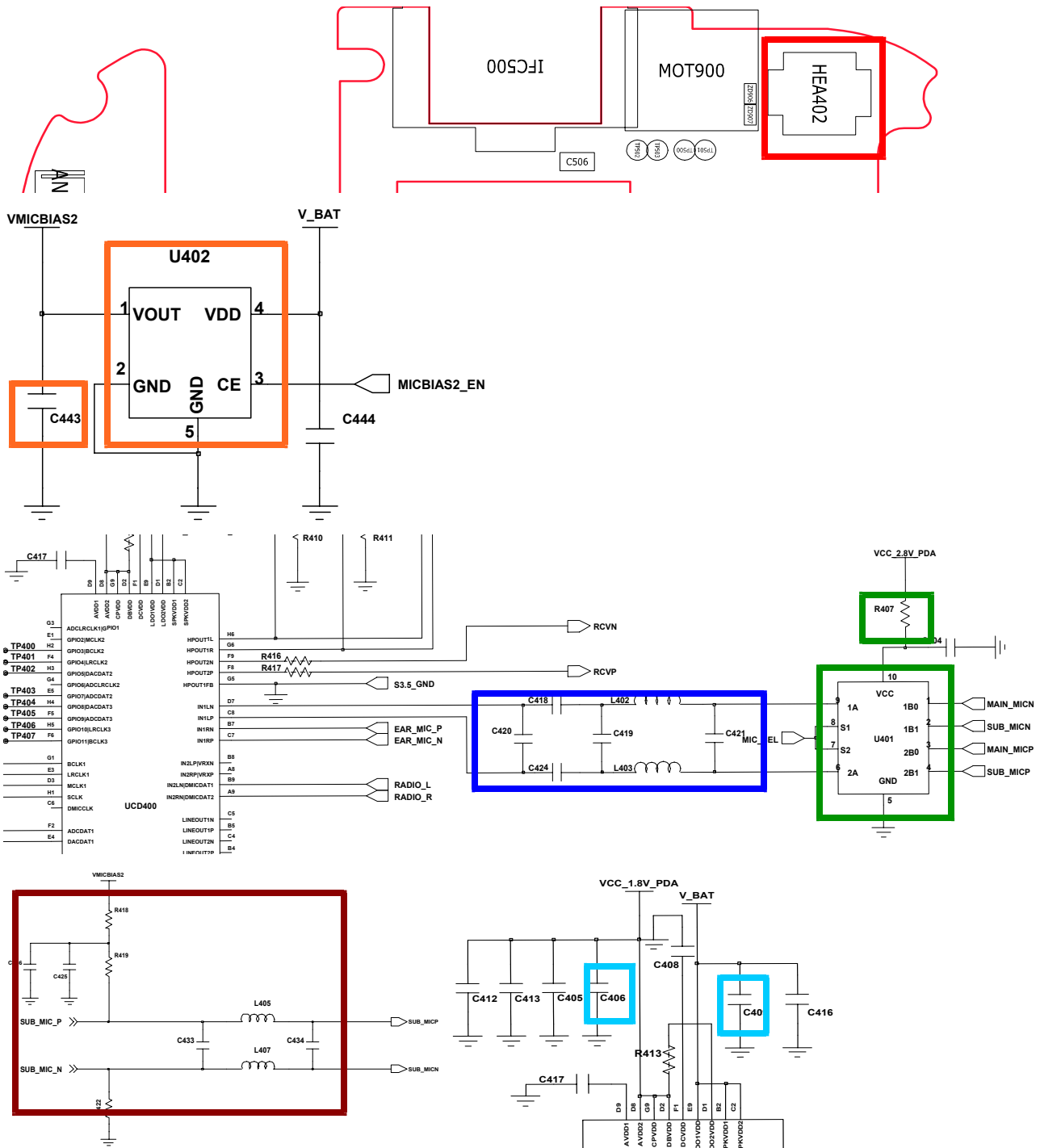
8-3-5. Ear Microphone



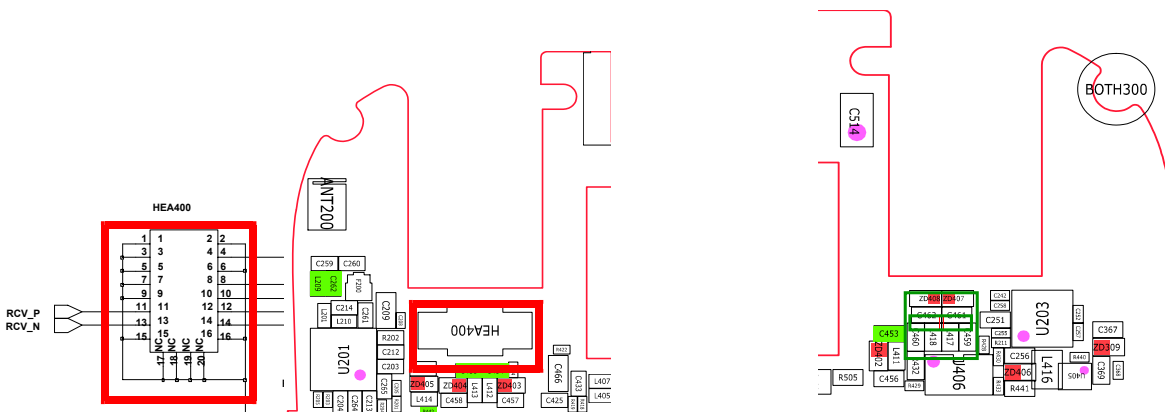
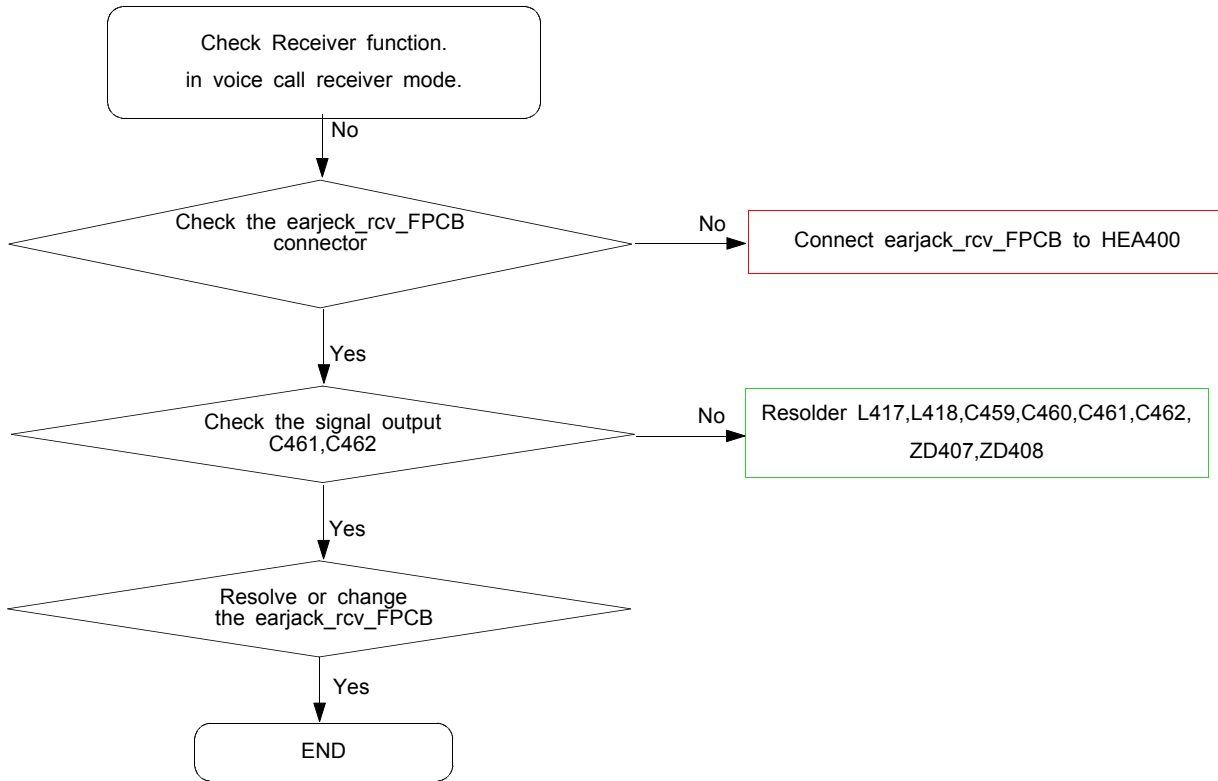


8-3-6. sub Microphone

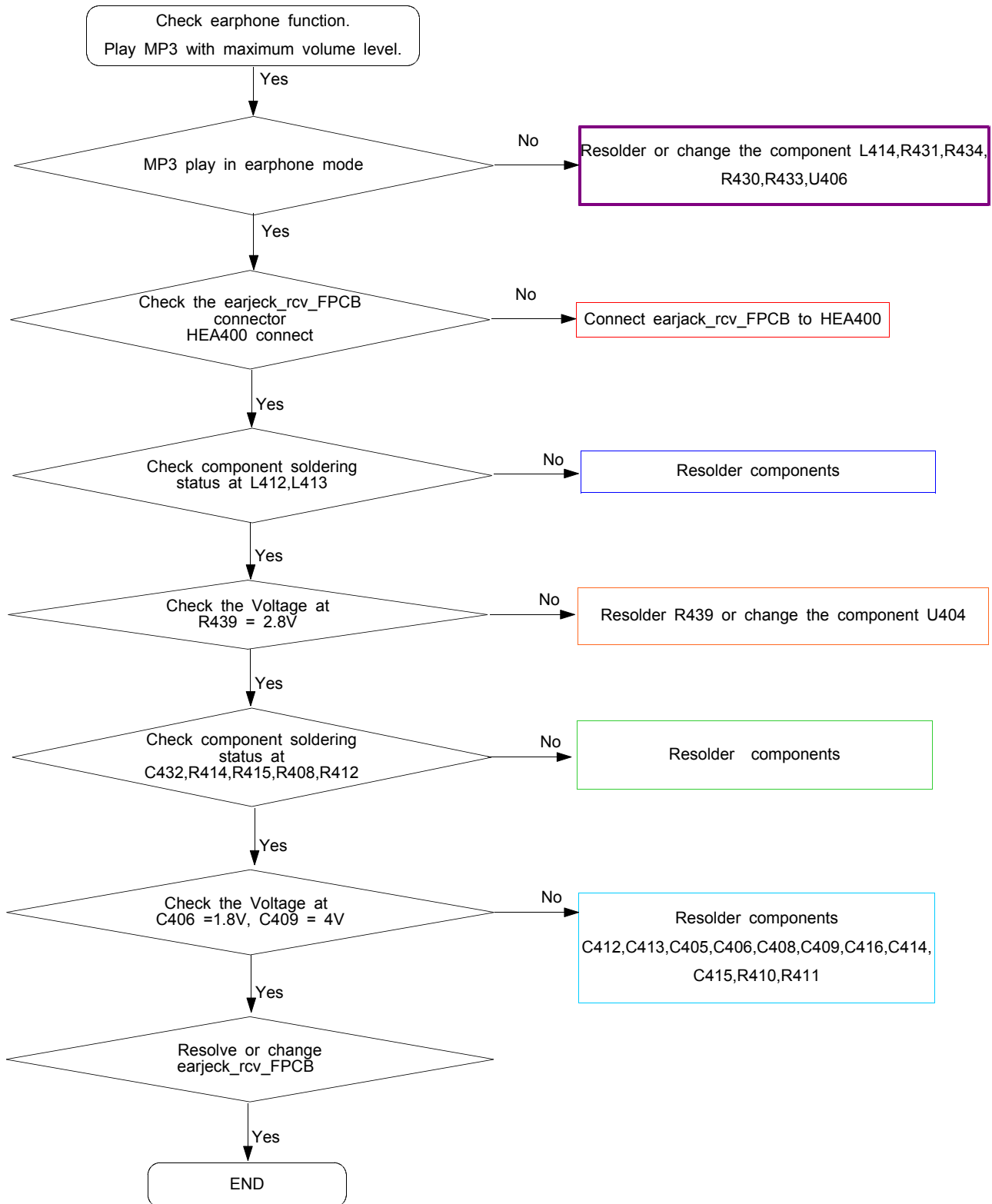


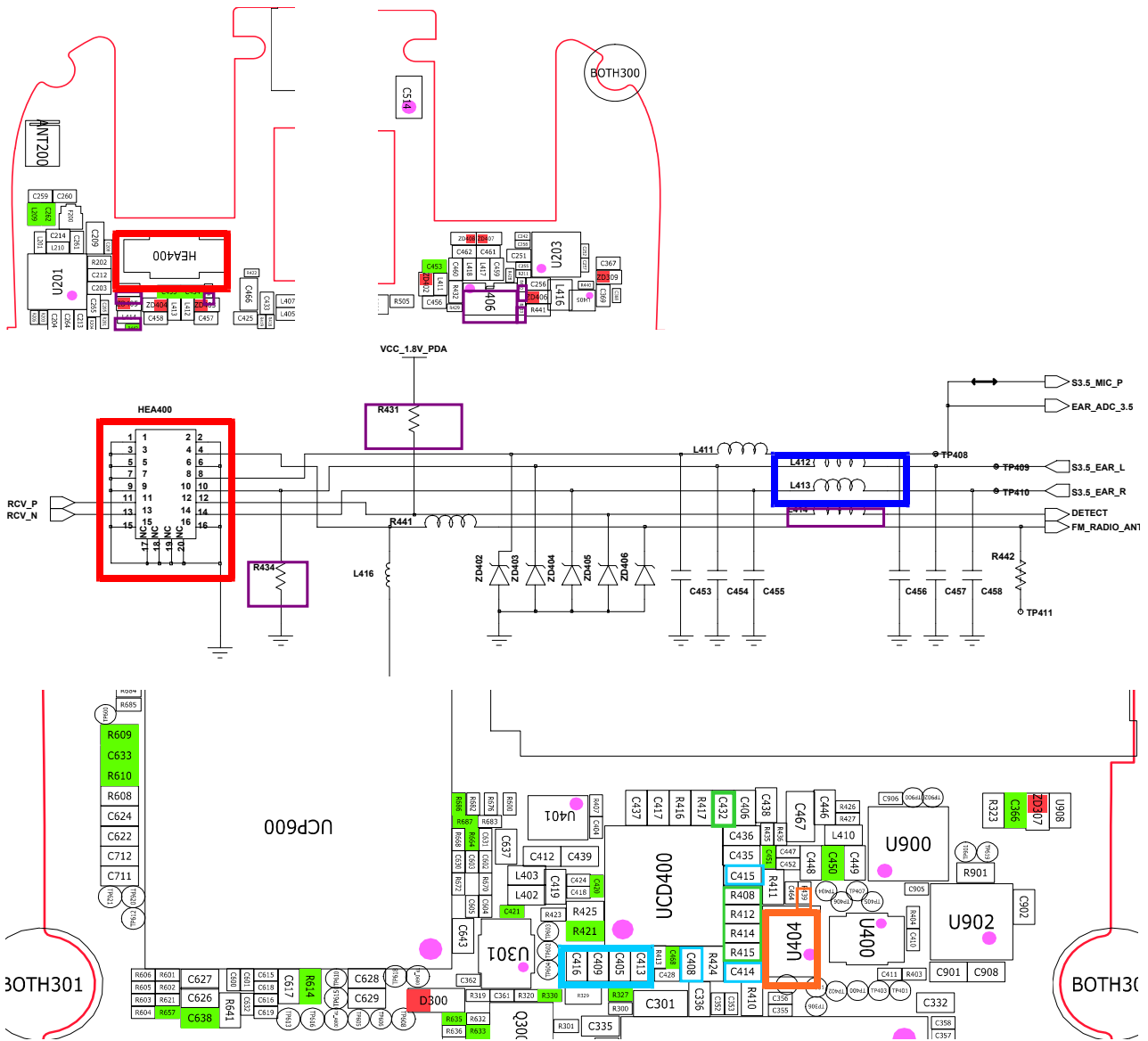


8-3-8. Receiver Part

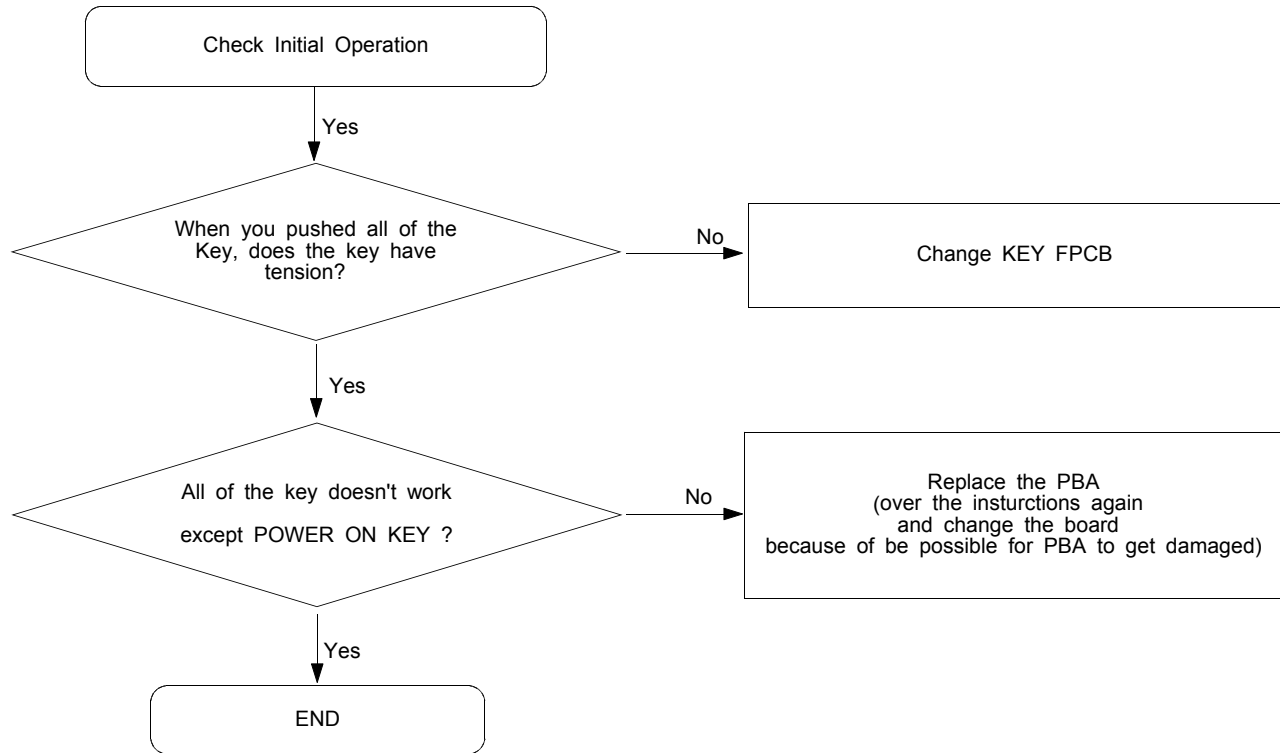


8-3-9. Earphone Part

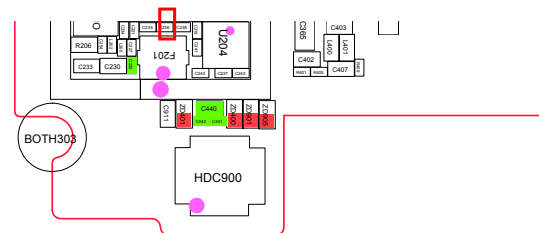
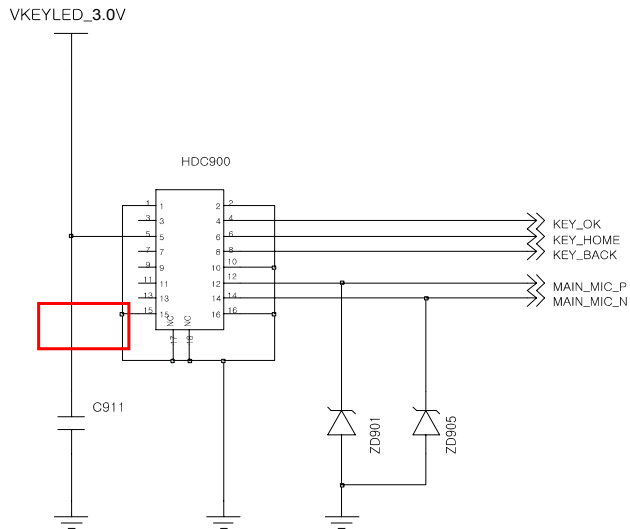
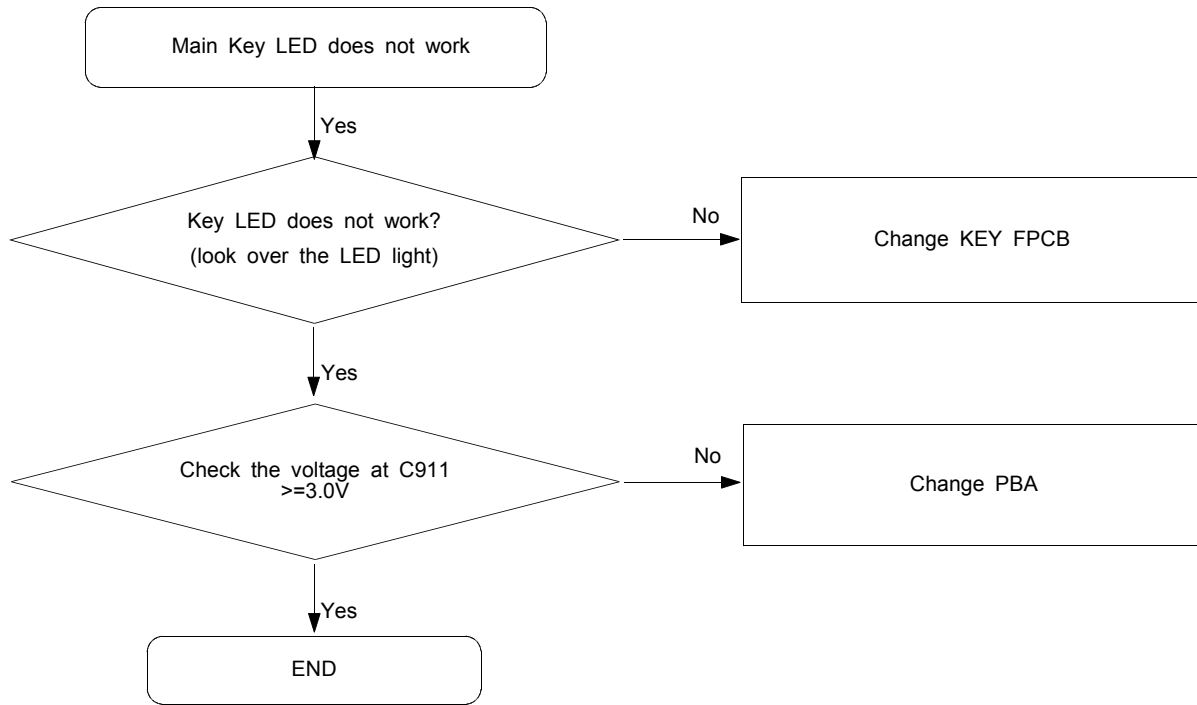




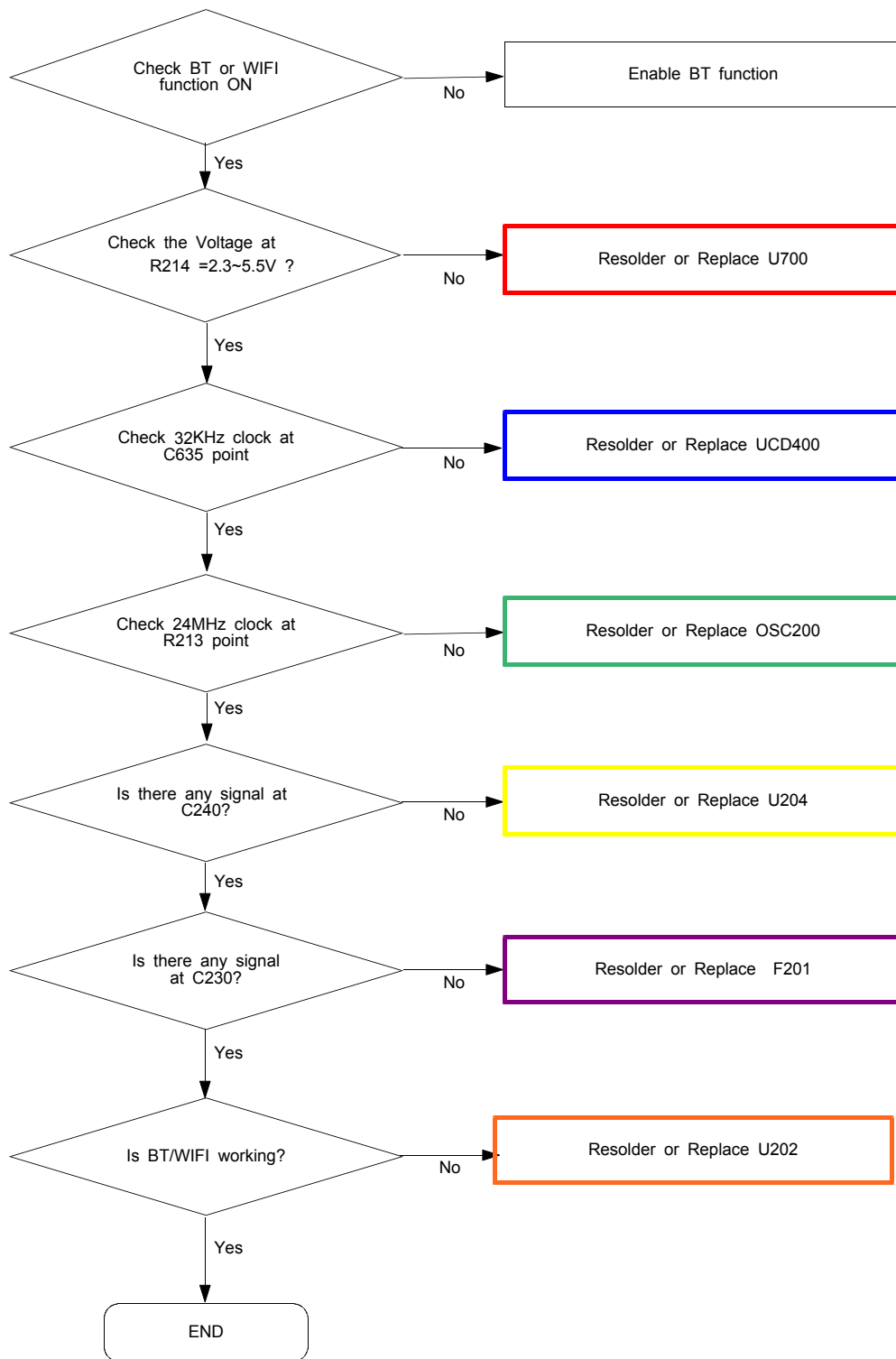
8-3-10. Key Data Input



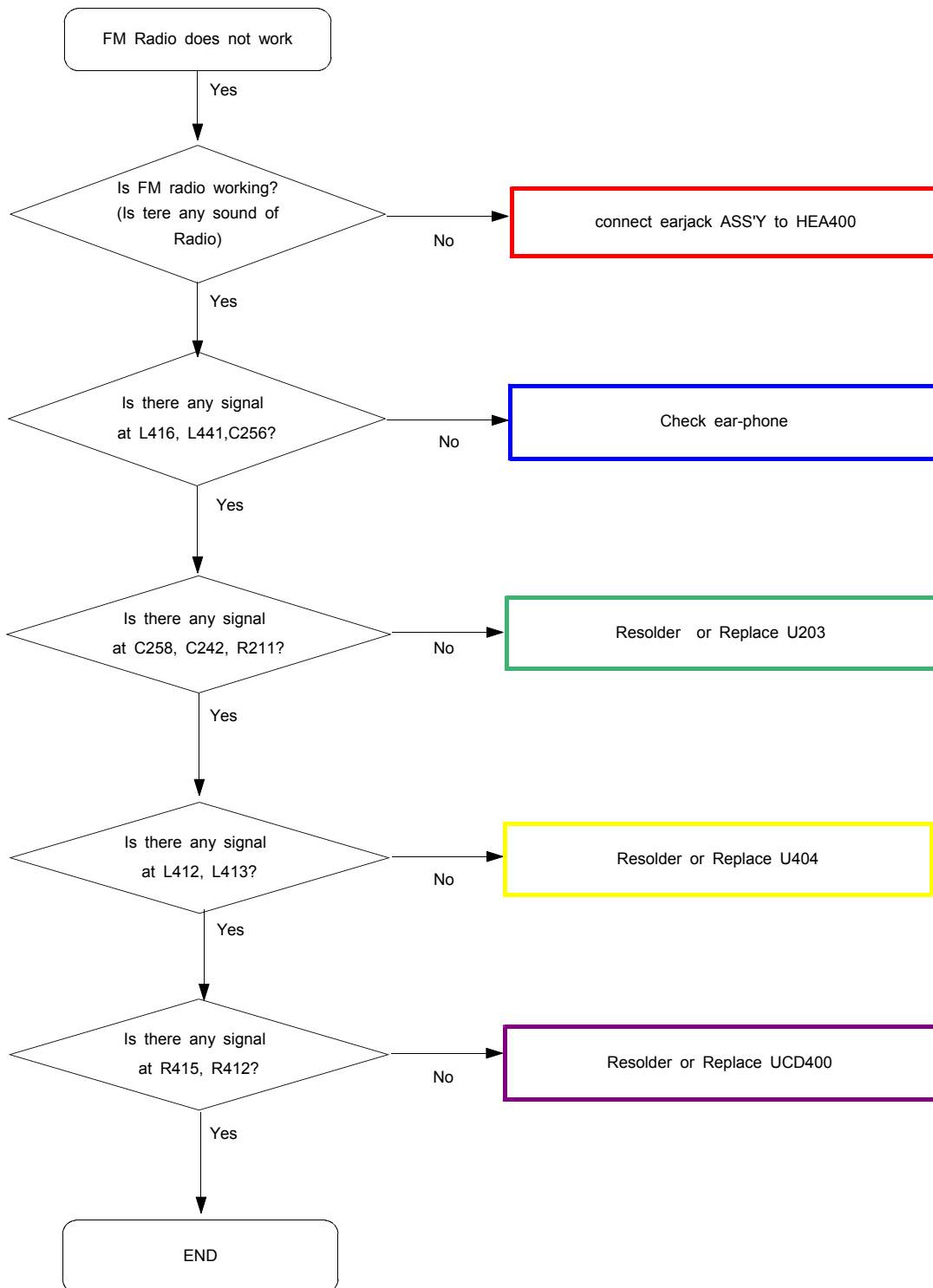
8-3-11. Key Back Light



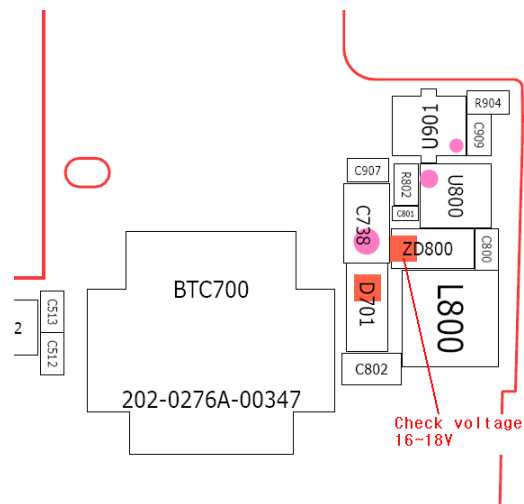
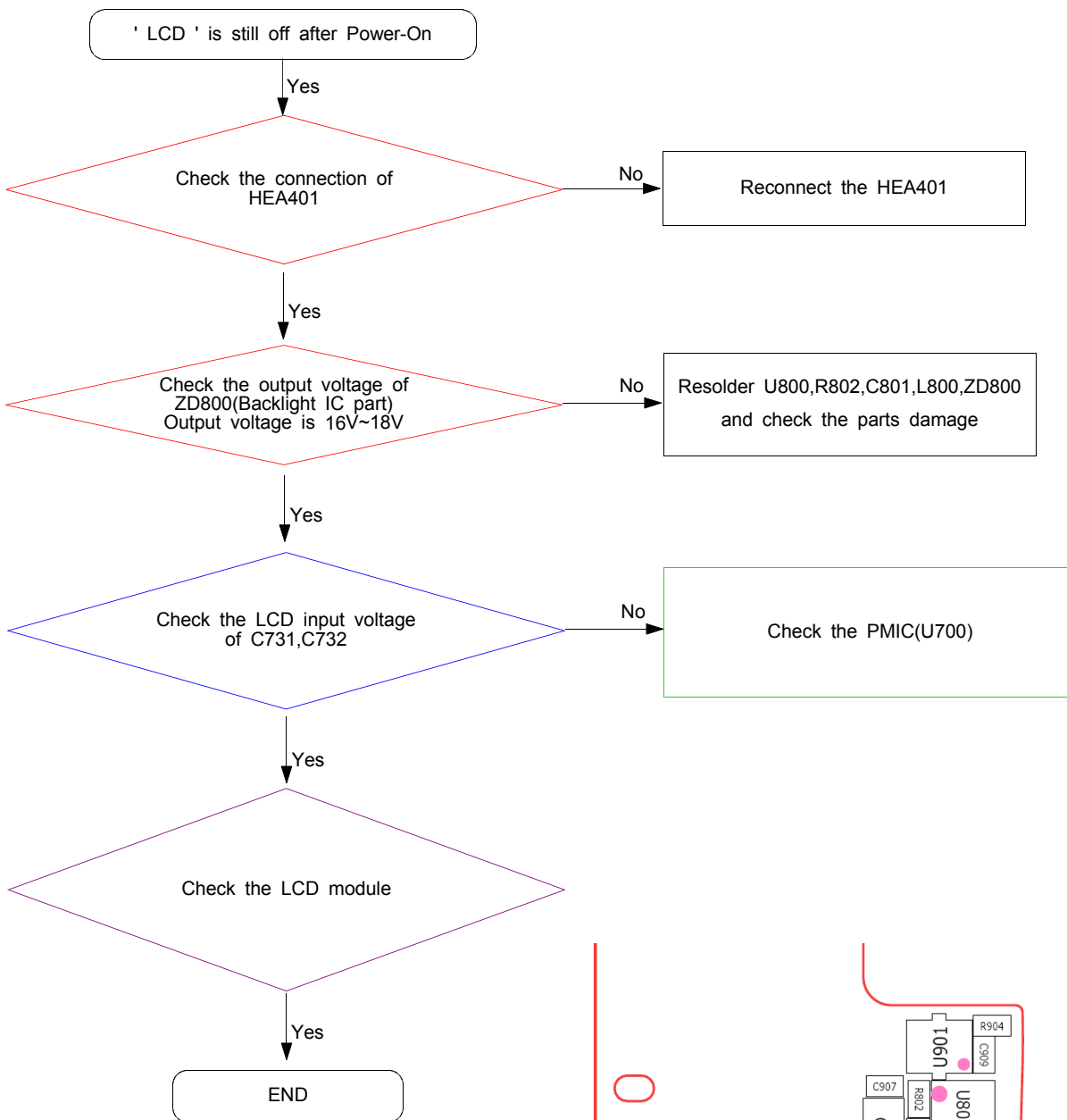
8-3-12. BT/WIFI



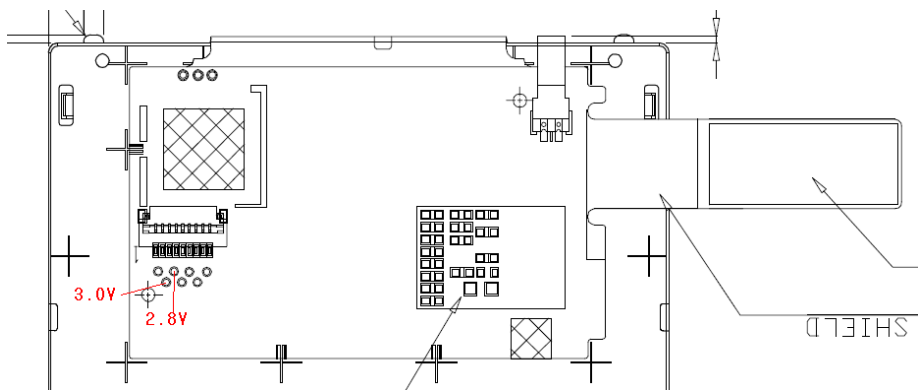
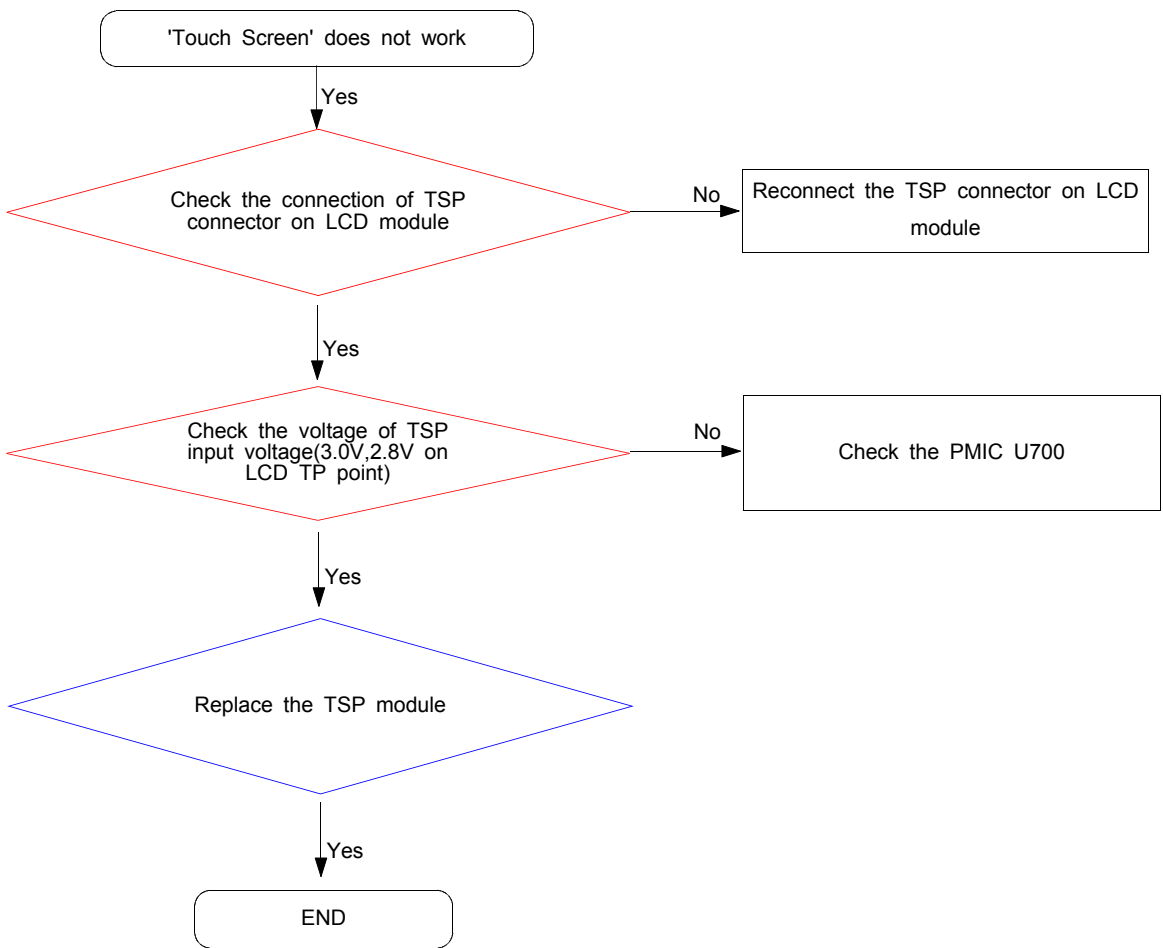
8-3-13. FM radio



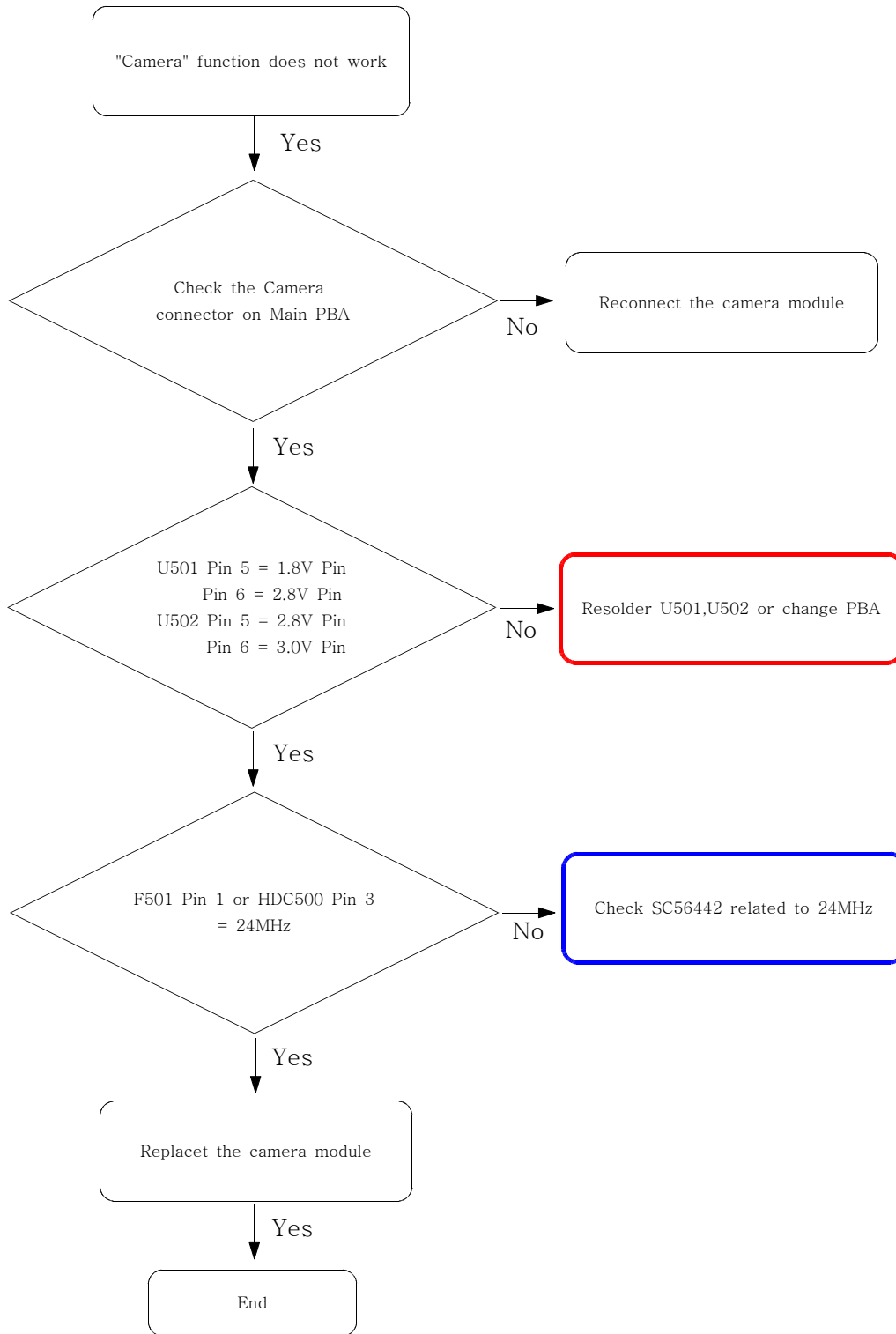
8-3-14. LCD

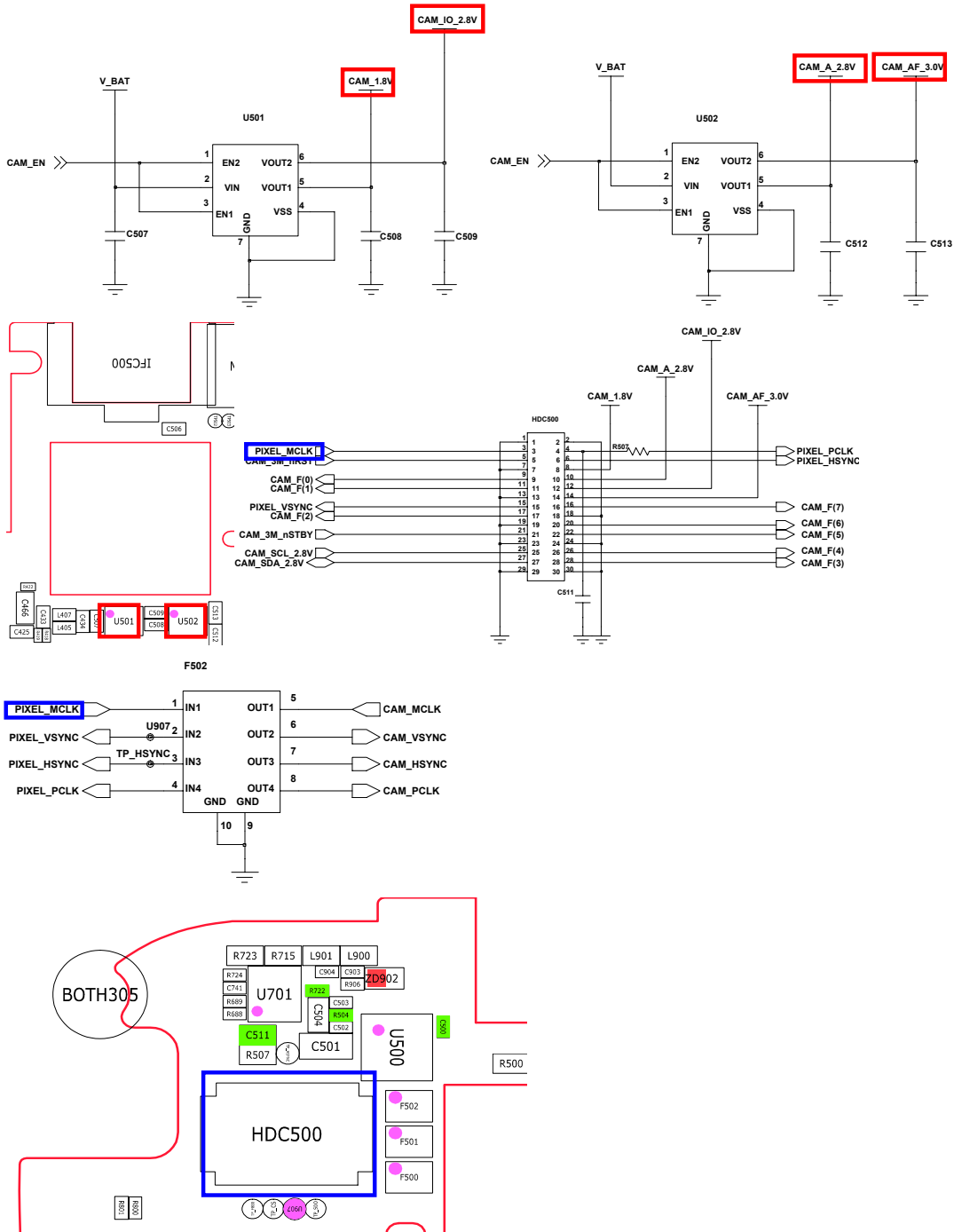


8-3-15. TSP



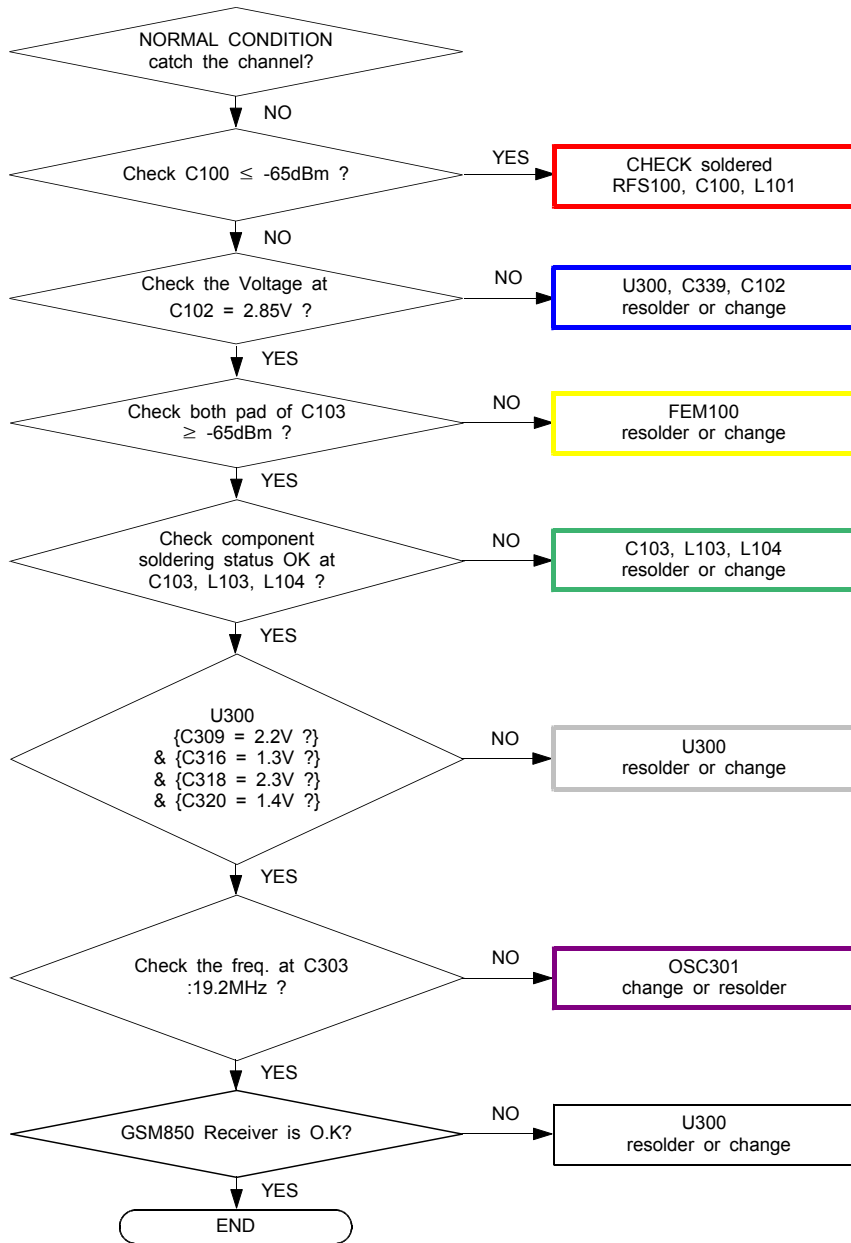
8-3-16. 3M CAM





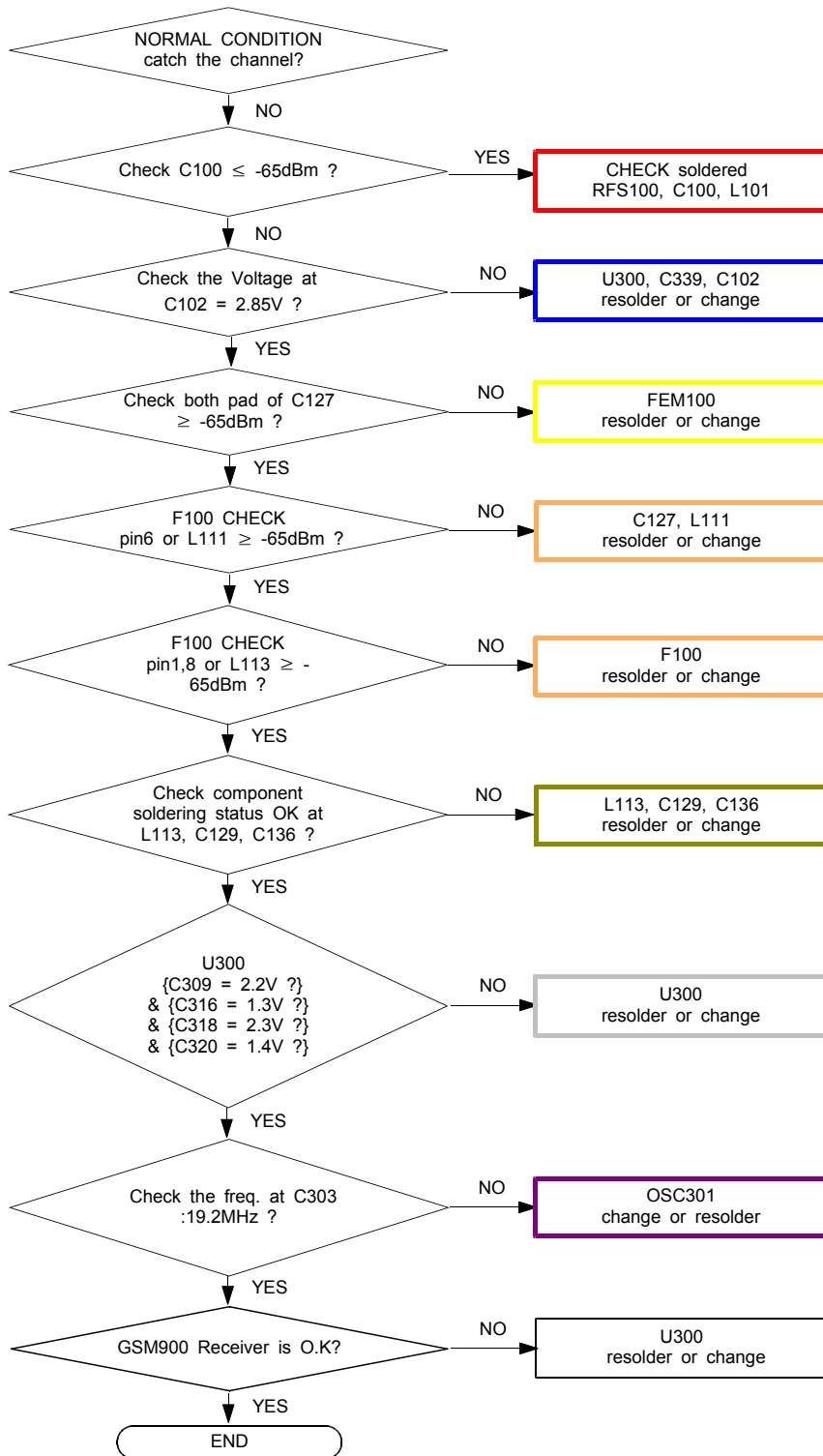
8-3-17. GSM850 RX

CONTINUOUS RX ON
RF INPUT : 190CH
AMP : -50dBm



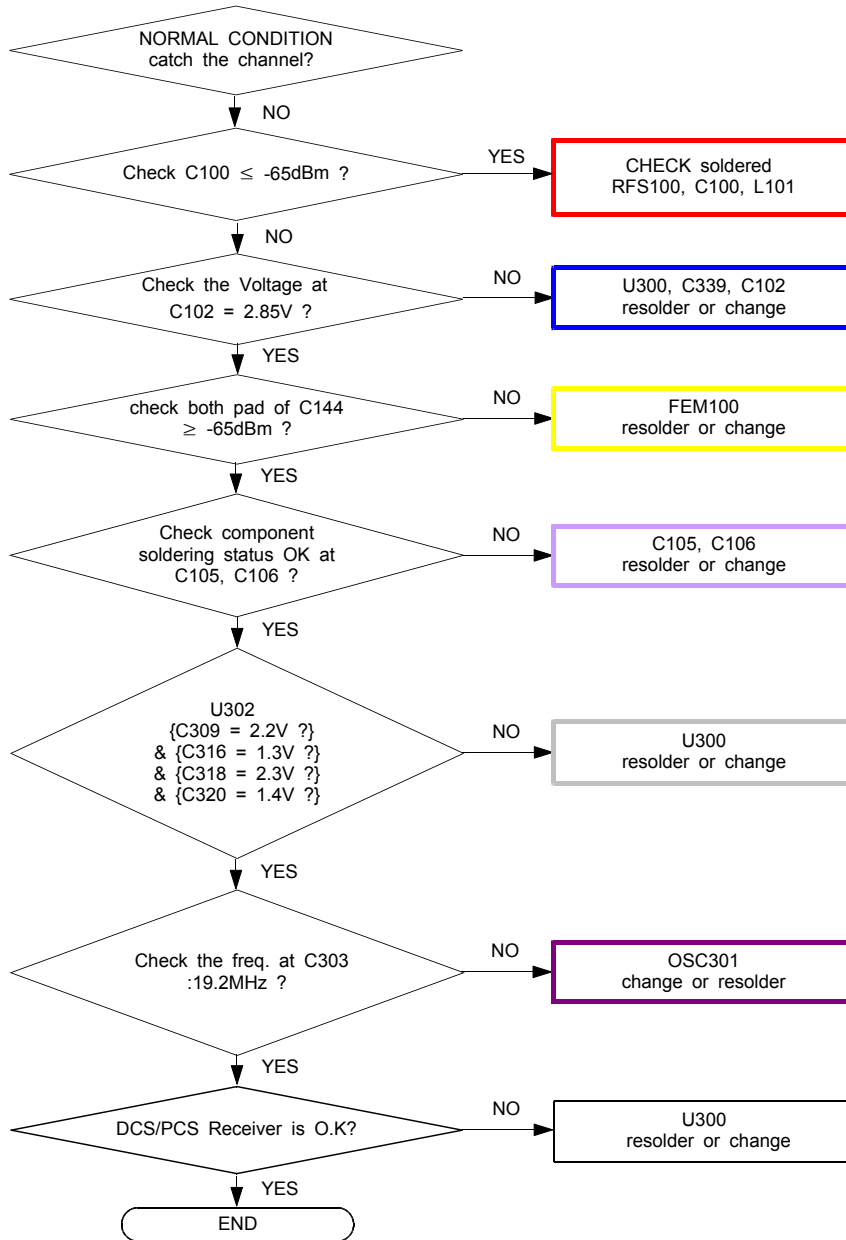
8-3-18. GSM900 RX

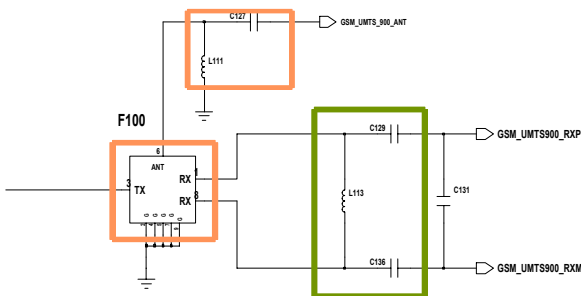
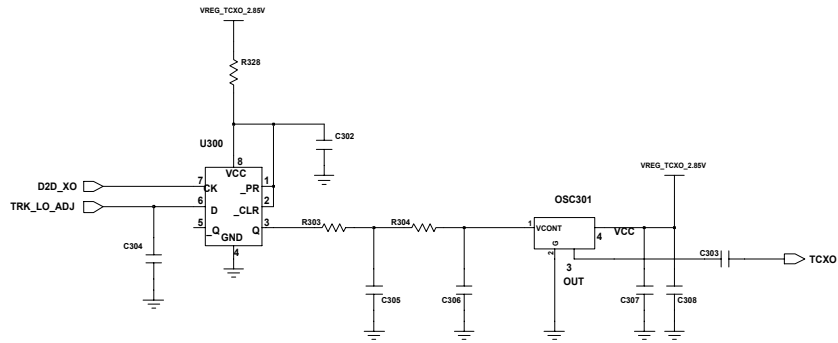
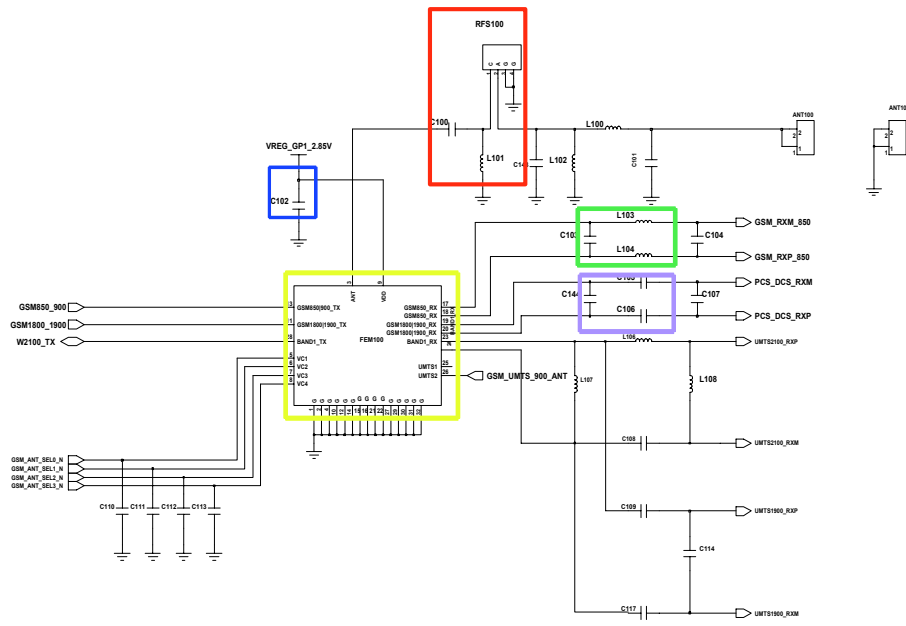
CONTINUOUS RX ON
RF INPUT : 37CH
AMP : -50dBm



8-3-19. DCS/PCS RX

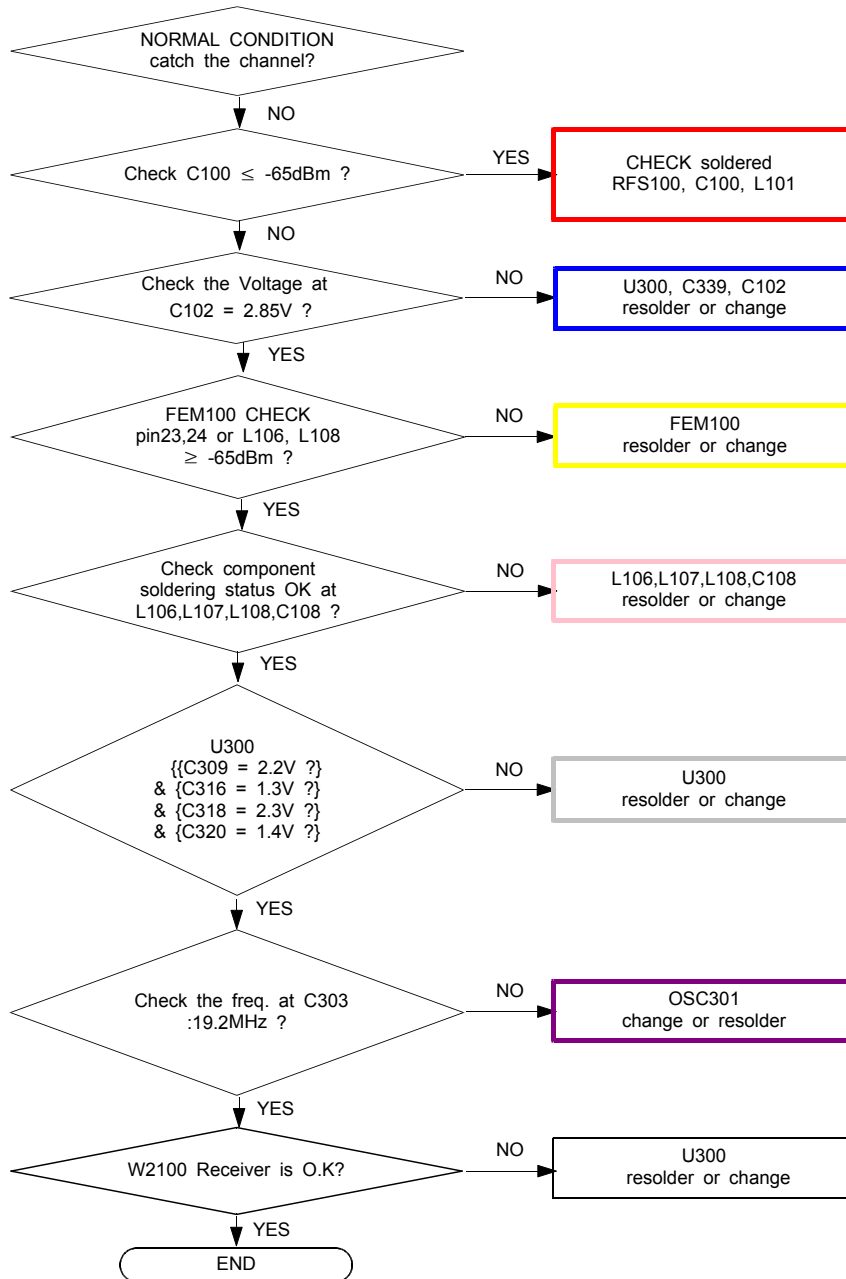
CONTINUOUS RX ON
 DCS RF INPUT : 698CH
 PCS RF INPUT : 661CH
 AMP : -50dBm





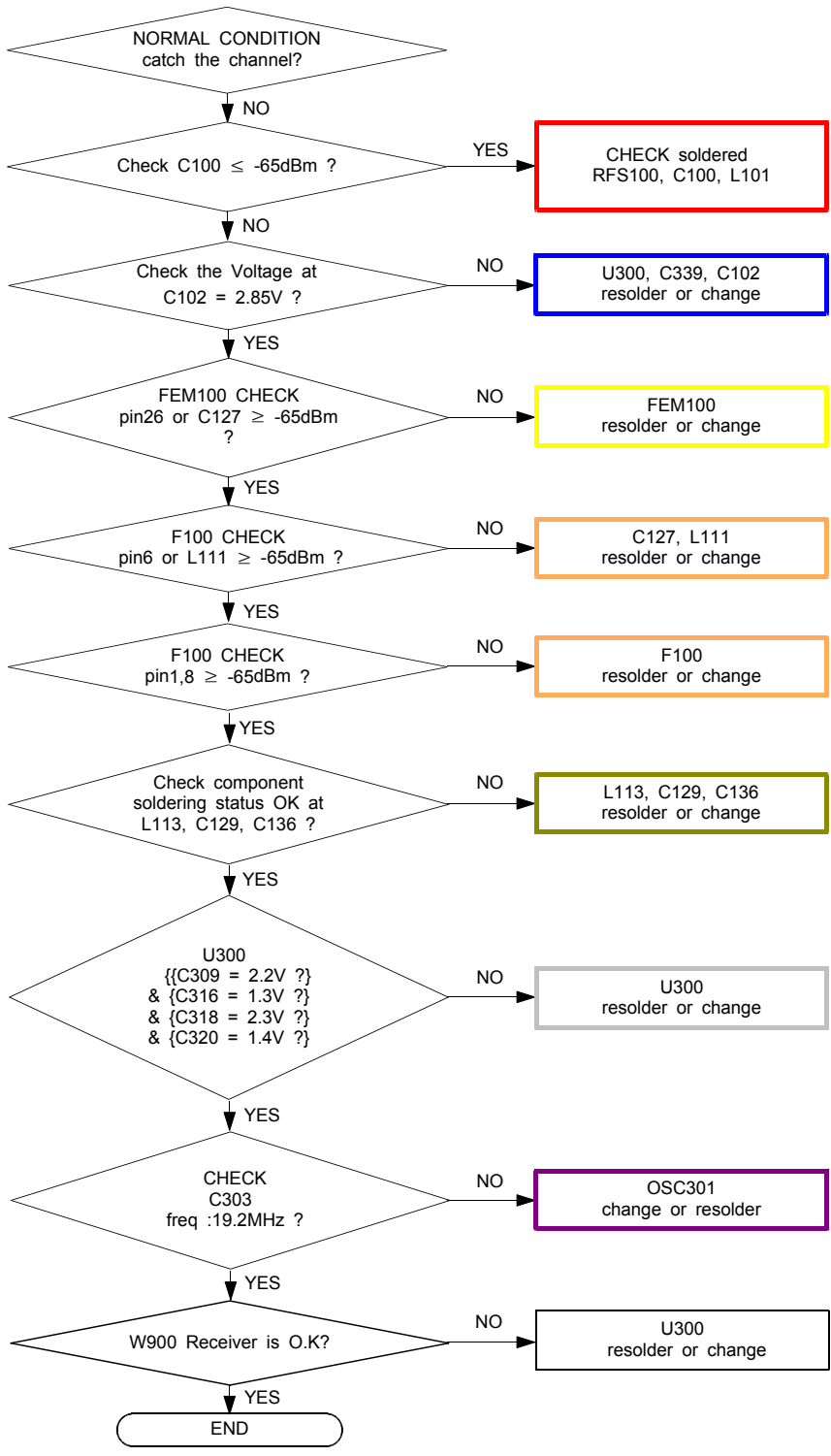
8-3-20. WCDMA Band1 RX

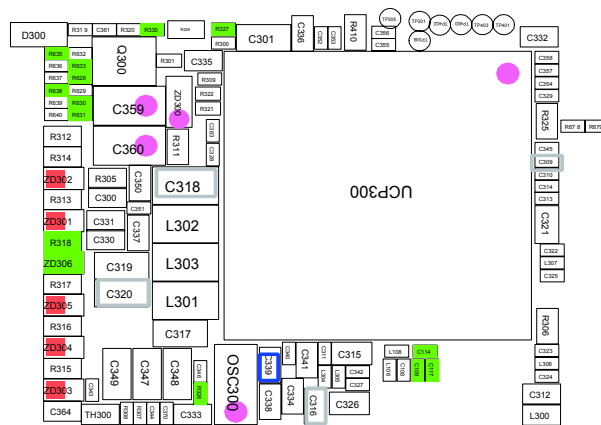
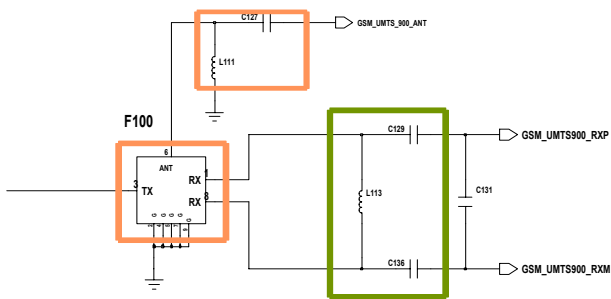
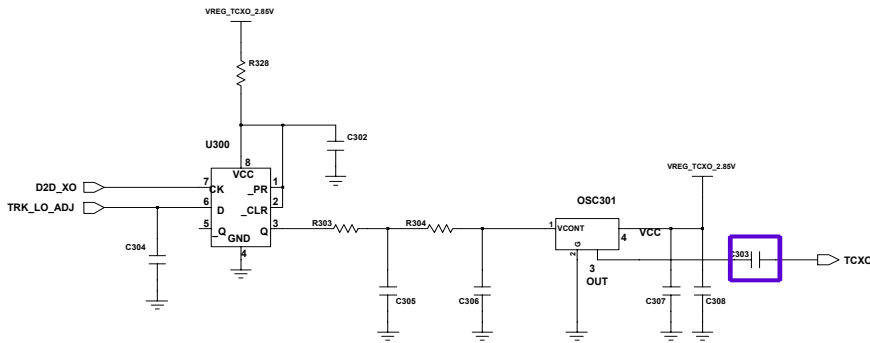
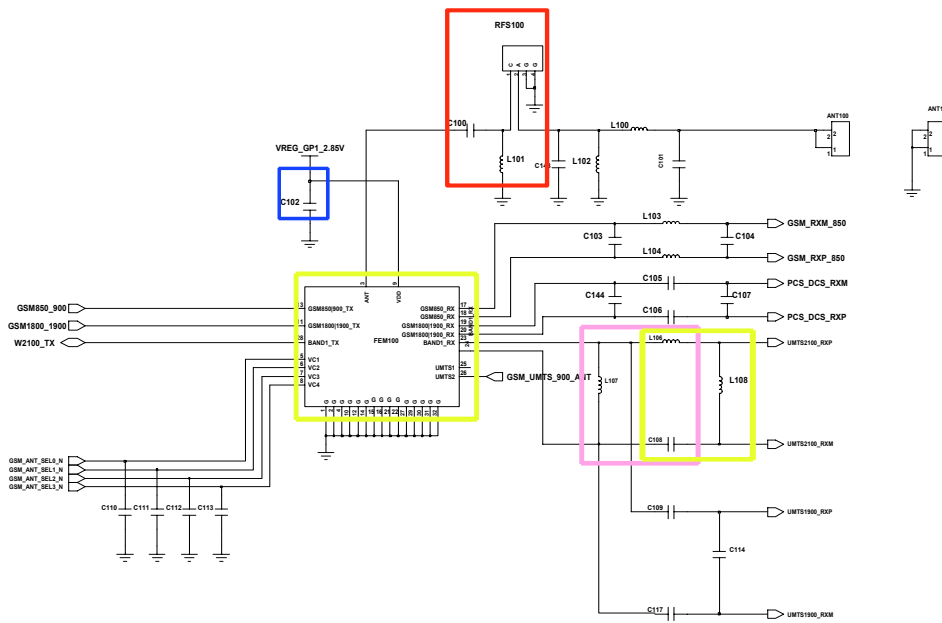
CONTINUOUS RX ON
RF INPUT : 10700CH
AMP : -50dBm



8-3-21. WCDMA Band8 RX

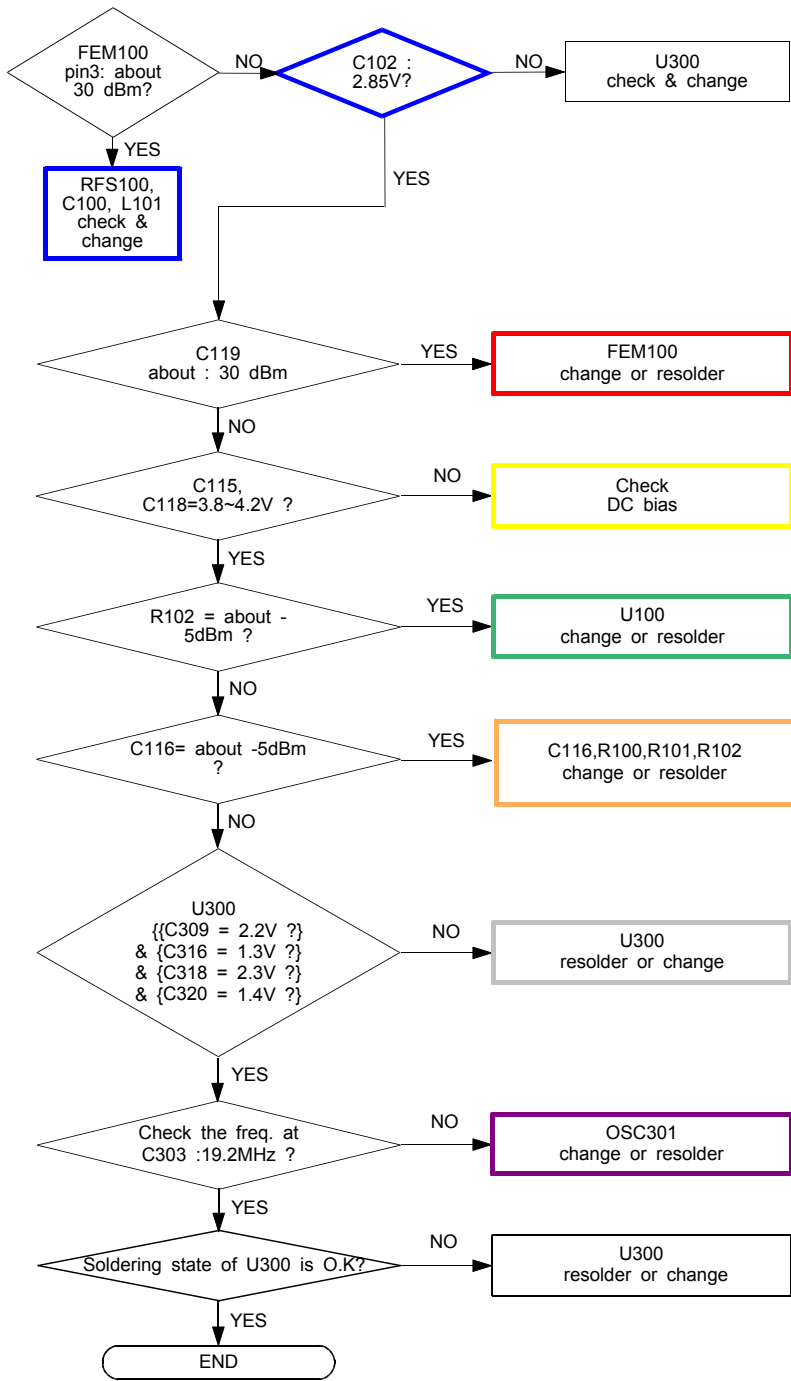
CONTINUOUS RX ON
RF INPUT : 3013CH
AMP : -50dBm



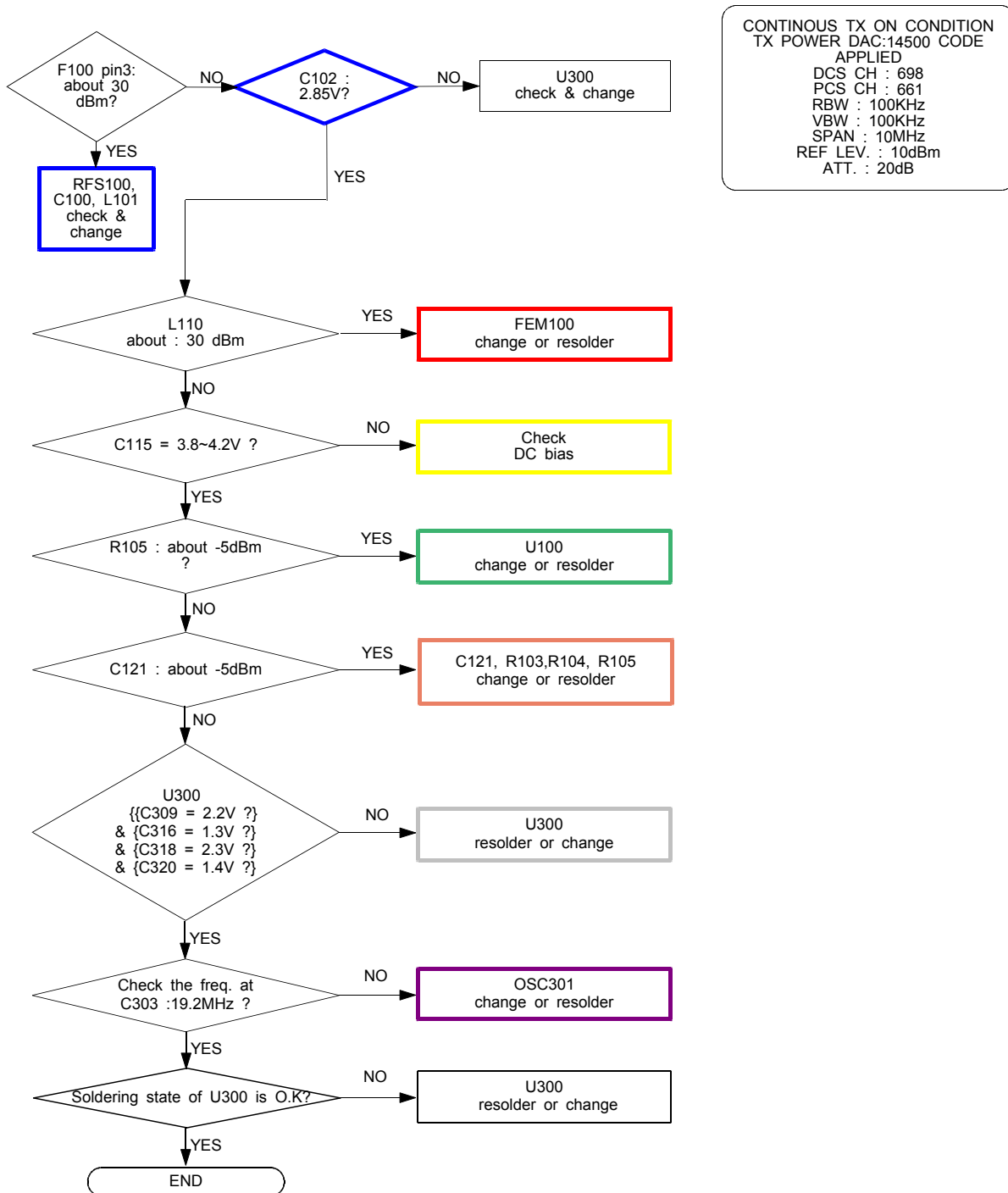


8-3-22. GSM850/900 TX

CONTINUOUS TX ON CONDITION
 TX POWER DAC:14500 CODE
 APPLIED
 GSM850 CH : 190
 GSM900 CH : 62
 RBW : 100KHz
 VBW : 100KHz
 SPAN : 10MHz
 REF LEV. : 10dBm
 ATT. : 20dB

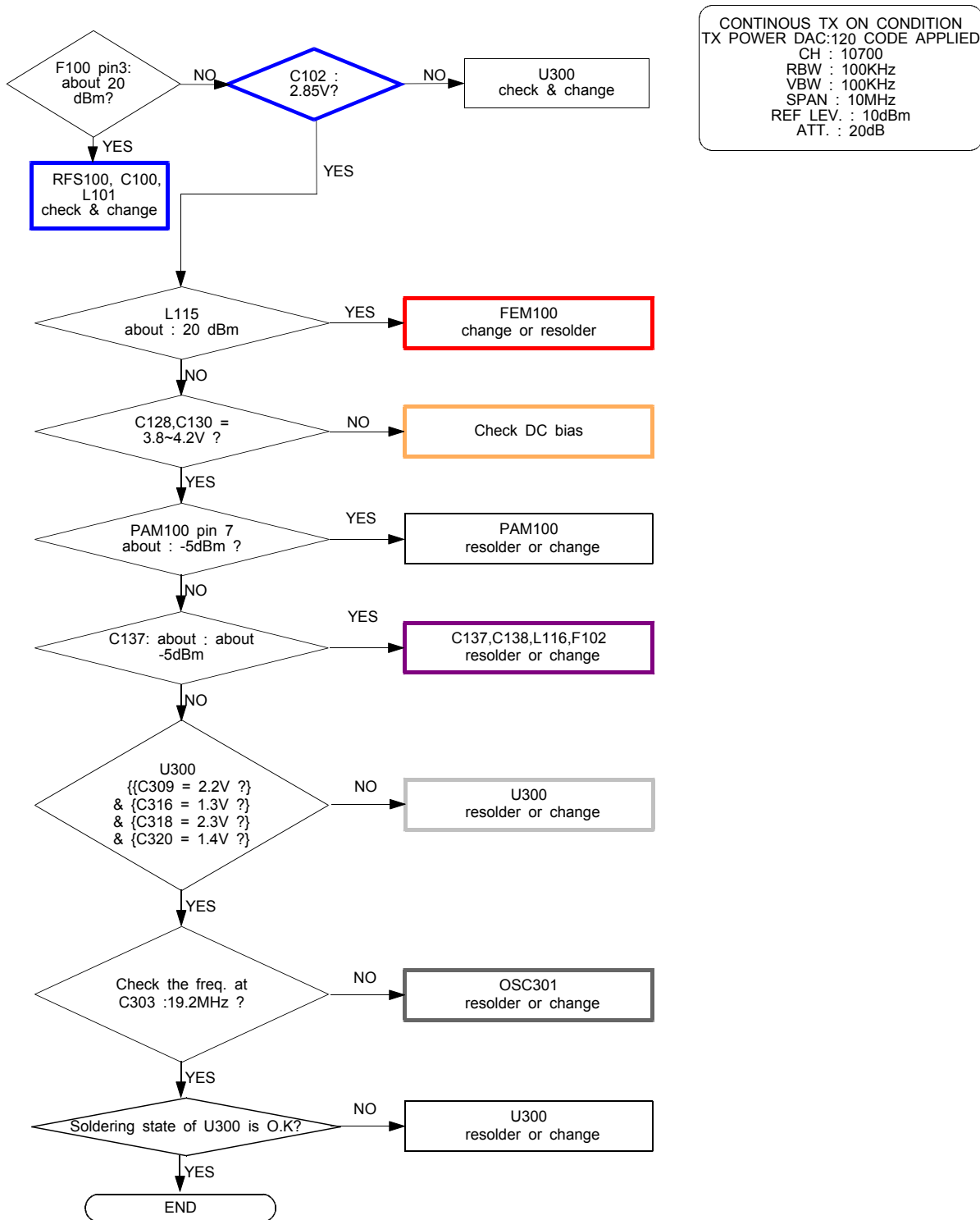


8-3-23. DCS/PCS TX



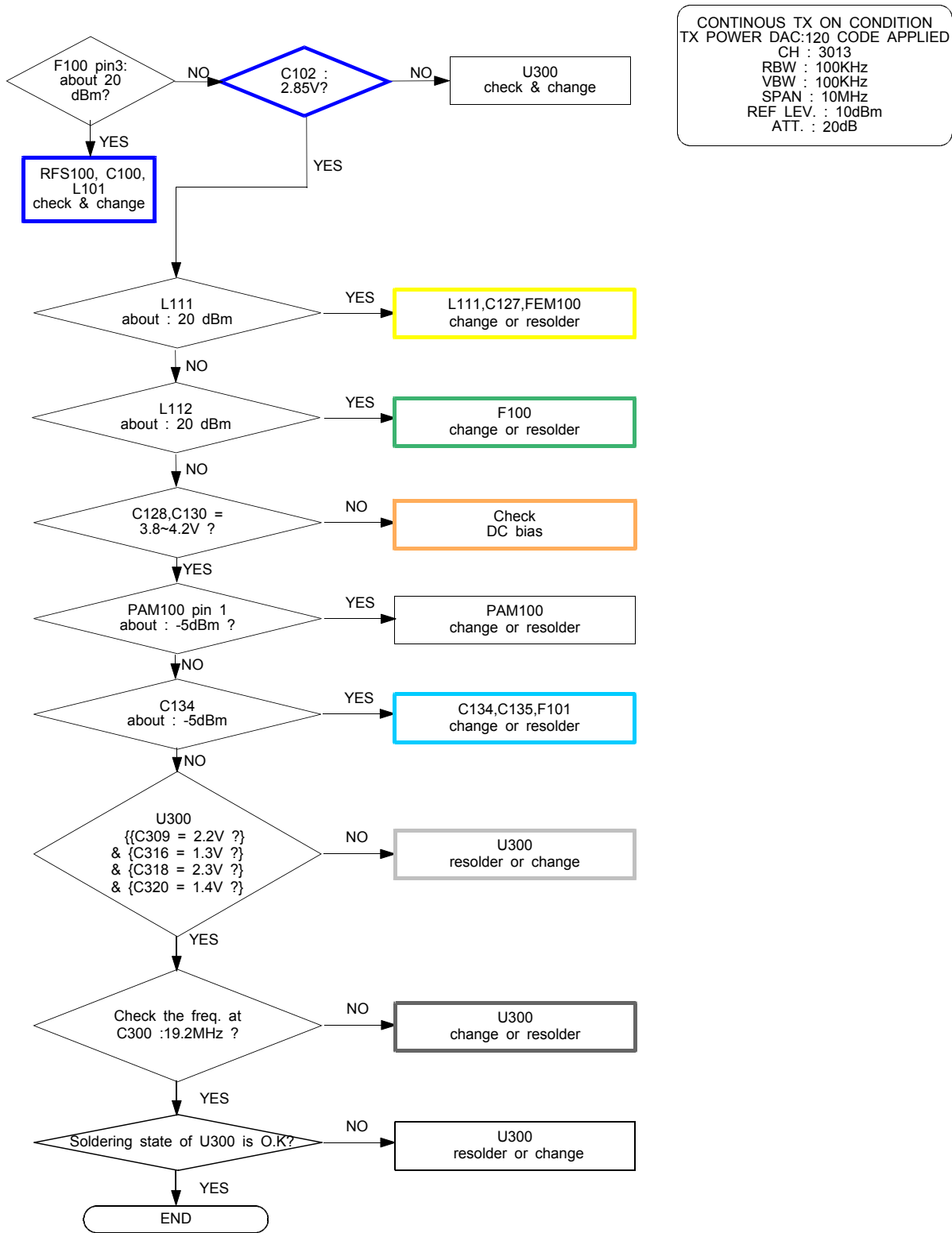
CONTINUOUS TX ON CONDITION
TX POWER DAC:14500 CODE
APPLIED
DCS CH : 698
PCS CH : 661
RBW : 100KHz
VBW : 100KHz
SPAN : 10MHz
REF LEV. : 10dBm
ATT. : 20dB

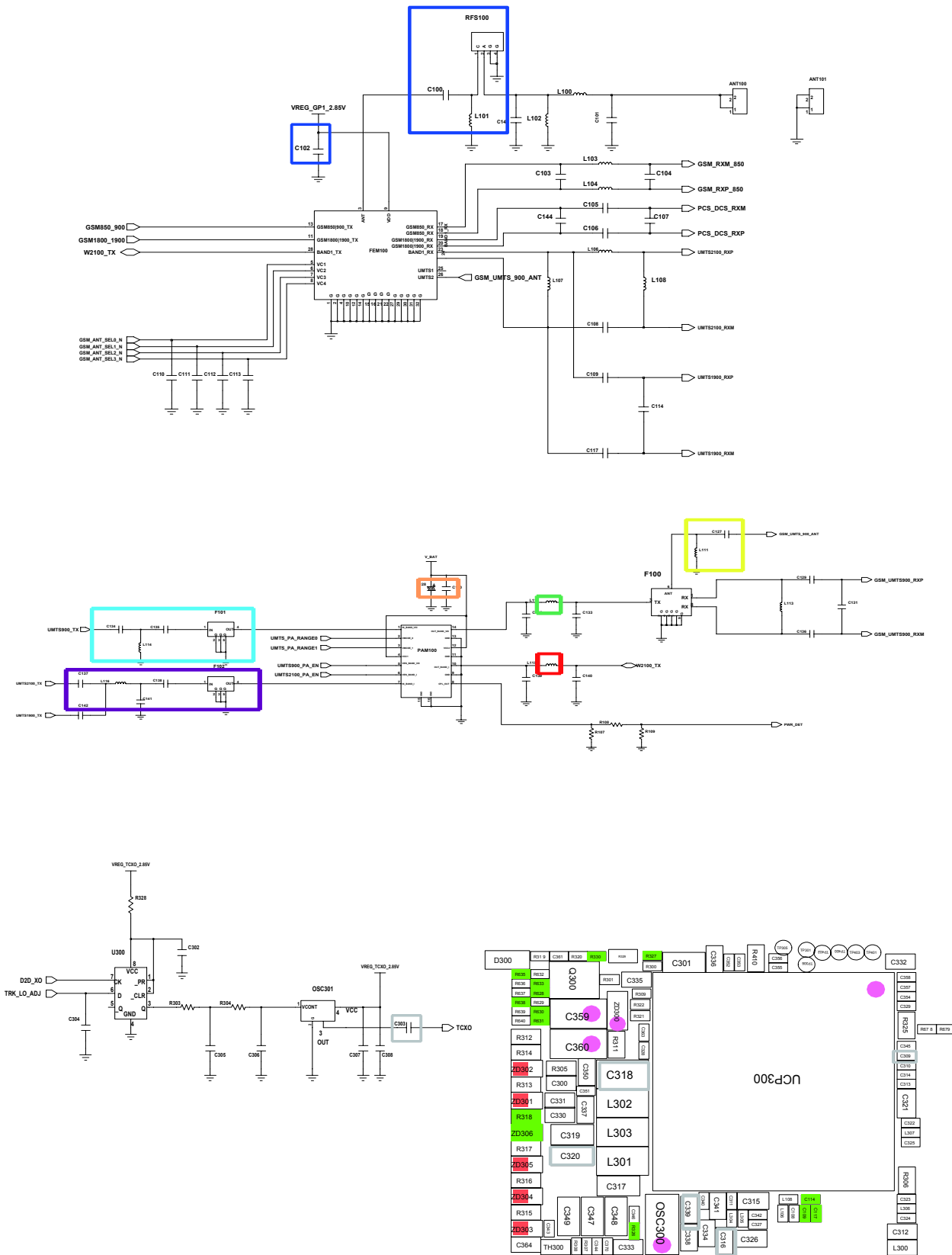
8-3-24. WCDMA Band1 TX



CONTINUOUS TX ON CONDITION
 TX POWER DAC:120 CODE APPLIED
 CH : 10700
 RBW : 100KHz
 VBW : 100KHz
 SPAN : 10MHz
 REF LEV. : 10dBm
 ATT. : 20dB

8-3-25. WCDMA Band8 TX





8-4. Service Schematics

- NC Point(Top View)

● : NC

UCP600

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	
A	○	○	○	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	A
B	○	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	B
C	●	○	●	○	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	C
D	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	D
E	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	E
F	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	F
G	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	G
H	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	H
J	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	J
K	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	K
L	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	L
M	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	M
N	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	N
P	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	P
R	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	R
T	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	T
U	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	U
V	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	V
W	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	W
Y	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	Y
AA	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	AA
AB	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	AB
AC	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	AC
AD	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	AD
AE	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	AE
AF	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	AF
AG	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	AG
AH	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	AH
AJ	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	AJ

UCP300

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
A	○	●	●	●	●	○	●	○	○	●	○	○	●	○	○	○	○	○	○	○	○	○	○	A
B	●	○	●	●	●	●	●	○	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	B
C	●	●	○	●	●	●	●	○	○	○	○	○	○	○	○	●	○	○	○	○	○	○	○	C
D	●	●	●																		○	○	○	D
E	●	●	●		●	●	●	●	○	○	○	○	○	○	○	○	○	○	○		○	○	○	E
F	●	●	○		●	○	●	●	○	●	●	○	○	○	○	○	○	○	○		○	○	○	F
G	○	○	○		○	●												○	○		○	○	○	G
H	○	○	○		○	○			○	●	○	●	○	○	○	○	○	○	○		○	○	○	H
J	○	○	○		○	○		○	○	○	○	○	○	○	○	○	○	○	○		○	○	○	J
K	○	○	○		○	○		○	○	○	○	○	○	○	○	○	○	○	○		○	○	○	K
L	○	○	○		○	○		○	○	○	○	○	○	○	○	○	○	○	○		○	○	○	L
M	○	○	○		○	○		○	○	○	○	○	○	○	○	○	○	○	○		○	○	○	M
N	○	○	○		○	○		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	N
P	○	○	○		○	○		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	P
R	○	○	○		○	○		○	○	○	○	○	○	○	○	○	○	○	○		○	○	○	R
T	○	○	○		○	○		○	○	○	○	○	○	○	○	○	○	○	○		○	○	○	T
U	○	○	○		○	○															○	○	○	U
V	●	●	○		○	○	●	●	○	○	○	○	○	○	○	○	○	○	○		○	○	○	V
W	●	●	●		○	●	●	●	●	●	○	○	○	○	○	○	○	○	○		○	○	○	W
Y	●	●	●																		○	○	○	Y
AA	○	●	○	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	AA
AB	●	○	○	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	AB
AC	○	○	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	AC

5. MAIN Electrical Parts List

Design LOC	SEC CODE	Description
D701	0403-001688	DIODE
D300	0404-001172	DIODE
ZD800	0404-001514	DIODE
ZD300	0406-001201	DIODE
ZD407,ZD408	0406-001223	DIODE
ZD301,ZD302,ZD303	0406-001267	DIODE
ZD304,ZD305,ZD307	0406-001267	DIODE
ZD309,ZD400,ZD401	0406-001267	DIODE
ZD402,ZD403,ZD404	0406-001267	DIODE
ZD405,ZD406,ZD502	0406-001267	DIODE
ZD503,ZD901,ZD905	0406-001267	DIODE
ZD902	0406-001375	DIODE
D700	0407-001002	DIODE
Q300	0504-000168	TR-SMALL SIGNAL
Q500	0504-001138	TR-SMALL SIGNAL
U300	0801-003013	IC
UCP600	0902-002584	IC
U405	1001-001370	IC
U404	1001-001459	IC
U500	1001-001580	IC
U401	1001-001593	IC
U204	1001-001607	IC1
U901	1003-002047	IC
U301,U400	1003-002352	IC
U100	1201-002961	IC

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

Design LOC	SEC CODE	Description
PAM100	1201-003009	IC
U406	1202-001036	IC
U501	1203-003643	IC
U800	1203-004845	IC
U502	1203-005076	IC
U402	1203-005396	IC
U700	1203-006186	IC
U701	1203-006372	IC
U203	1204-003176	IC
U201	1205-003791	IC
UCP300	1205-003792	IC
UCD400	1205-003943	IC
U202	1205-004042	IC
U900	1209-001817	IC
U902	1209-001872	IC
TH300	1404-001224	COMP-SMD
ZD906,ZD907	1405-001177	COMP-SMD
R500	2007-000138	R-CHIP
R608	2007-000143	R-CHIP
R325,R501	2007-000148	R-CHIP
R312,R313,R314,R315	2007-000157	R-CHIP
R316,R317	2007-000157	R-CHIP
R324,R715,R723,R901	2007-000162	R-CHIP
R431	2007-000169	R-CHIP
R408,R414	2007-001298	R-CHIP

Design LOC	SEC CODE	Description
R410,R411	2007-003010	R-CHIP
R202	2007-003015	R-CHIP
R206,R323	2007-007132	R-CHIP
R432	2007-007573	R-CHIP
R205,R435,R436,R632	2007-007741	R-CHIP
R668,R672,R676	2007-007741	R-CHIP
R802	2007-007798	R-CHIP
R904	2007-007875	R-CHIP
R505	2007-007943	R-CHIP
R108	2007-008044	R-CHIP
R107,R109,R304,R319	2007-008045	R-CHIP
R320,R328,R403,R404	2007-008045	R-CHIP
R407,R439,R440	2007-008045	R-CHIP
R303,R409,R422	2007-008049	R-CHIP
R603,R604,R612,R613	2007-008052	R-CHIP
R625,R626,R634,R642	2007-008052	R-CHIP
R688,R689	2007-008052	R-CHIP
R600,R618,R619,R620	2007-008055	R-CHIP
R636,R637,R639,R640	2007-008055	R-CHIP
R678,R679,R680,R906	2007-008055	R-CHIP
R100,R103	2007-008210	R-CHIP
R412,R415	2007-008294	R-CHIP
R211,R601,R602,R605	2007-008419	R-CHIP
R606,R800	2007-008419	R-CHIP
R307	2007-008477	R-CHIP

Design LOC	SEC CODE	Description
R300	2007-008483	R-CHIP
R309,R621,R629,R670	2007-008516	R-CHIP
R674,R682,R683,R709	2007-008516	R-CHIP
R712	2007-008516	R-CHIP
R201,R204	2007-008531	R-CHIP
R401,R418,R427	2007-008548	R-CHIP
R213	2007-008579	R-CHIP
R101,R102,R104,R105	2007-008582	R-CHIP
R106	2007-008588	R-CHIP
R305	2007-008766	R-CHIP
R507,R641	2007-008780	R-CHIP
R203	2007-008806	R-CHIP
R308	2007-008809	R-CHIP
R429,R430,R433,R434	2007-009084	R-CHIP
R611	2007-009084	R-CHIP
R405,R419,R426	2007-009212	R-CHIP
R706,R707,R708	2007-009314	R-CHIP
R428,R503,R724	2007-009801	R-CHIP
R673	2007-009964	R-CHIP
R207,R208,R209,R210	2007-010202	R-CHIP
R215	2007-010202	R-CHIP
C127,C230,C265,C711	2203-000233	C-CERAMIC,CHIP
C712	2203-000233	C-CERAMIC,CHIP
C213,C635	2203-000254	C-CERAMIC,CHIP
C212	2203-000311	C-CERAMIC,CHIP

Design LOC	SEC CODE	Description
C407,C433,C449,C461	2203-000386	C-CERAMIC,CHIP
C462,C716,C737	2203-000386	C-CERAMIC,CHIP
C119,C402,C419,C425	2203-000425	C-CERAMIC,CHIP
C446,C456,C457,C458	2203-000425	C-CERAMIC,CHIP
C902	2203-000425	C-CERAMIC,CHIP
C617	2203-000438	C-CERAMIC,CHIP
C264	2203-000627	C-CERAMIC,CHIP
C909	2203-000725	C-CERAMIC,CHIP
C214,C259,C260,C261	2203-000812	C-CERAMIC,CHIP
C367,C440,U908	2203-000812	C-CERAMIC,CHIP
C403,C434,C448,C459	2203-001153	C-CERAMIC,CHIP
C460	2203-001153	C-CERAMIC,CHIP
C256	2203-001239	C-CERAMIC,CHIP
C122	2203-002668	C-CERAMIC,CHIP
C101	2203-002677	C-CERAMIC,CHIP
C609,C637	2203-005138	C-CERAMIC,CHIP
C100,C118,C121,C124	2203-005682	C-CERAMIC,CHIP
C129,C136,C137,C138	2203-005682	C-CERAMIC,CHIP
C304,C307	2203-005682	C-CERAMIC,CHIP
C221,C254	2203-005683	C-CERAMIC,CHIP
C325	2203-005717	C-CERAMIC,CHIP
C126	2203-005719	C-CERAMIC,CHIP
C105,C106	2203-005726	C-CERAMIC,CHIP
C253	2203-005727	C-CERAMIC,CHIP
C634,C636	2203-005729	C-CERAMIC,CHIP

Design LOC	SEC CODE	Description
C502	2203-005732	C-CERAMIC,CHIP
C116,C310,C313,C314	2203-005736	C-CERAMIC,CHIP
C327,C700	2203-005736	C-CERAMIC,CHIP
C108	2203-005739	C-CERAMIC,CHIP
C140	2203-005777	C-CERAMIC,CHIP
C236	2203-005779	C-CERAMIC,CHIP
C234	2203-005789	C-CERAMIC,CHIP
C130,C303,C323	2203-005806	C-CERAMIC,CHIP
C203,C204,C414,C415	2203-006048	C-CERAMIC,CHIP
C416,C621,C622,C624	2203-006048	C-CERAMIC,CHIP
C625,C626,C627,C628	2203-006048	C-CERAMIC,CHIP
C629,C643	2203-006048	C-CERAMIC,CHIP
C614	2203-006053	C-CERAMIC,CHIP
C134	2203-006187	C-CERAMIC,CHIP
C208,C306,C309	2203-006194	C-CERAMIC,CHIP
C718,C719,C720	2203-006208	C-CERAMIC,CHIP
C611,C613	2203-006260	C-CERAMIC,CHIP
C231,C235,C237,C238	2203-006305	C-CERAMIC,CHIP
C239,C240,C243	2203-006305	C-CERAMIC,CHIP
C251,C300,C330,C331	2203-006399	C-CERAMIC,CHIP
C364,C369,C406,C507	2203-006399	C-CERAMIC,CHIP
C508,C509,C512,C513	2203-006399	C-CERAMIC,CHIP
C610,C612,C701,C714	2203-006399	C-CERAMIC,CHIP
C715,C722,C723,C728	2203-006399	C-CERAMIC,CHIP
C729,C732,C733,C734	2203-006399	C-CERAMIC,CHIP

Design LOC	SEC CODE	Description
C735,C740,C742,C907	2203-006399	C-CERAMIC,CHIP
C911	2203-006399	C-CERAMIC,CHIP
C102,C227,C252,C257	2203-006423	C-CERAMIC,CHIP
C302,C308,C328,C329	2203-006423	C-CERAMIC,CHIP
C345,C346,C351,C354	2203-006423	C-CERAMIC,CHIP
C355,C356,C358,C370	2203-006423	C-CERAMIC,CHIP
C418,C424,C503,C600	2203-006423	C-CERAMIC,CHIP
C601,C602,C603,C604	2203-006423	C-CERAMIC,CHIP
C605,C630,C631,C632	2203-006423	C-CERAMIC,CHIP
C905,C906	2203-006423	C-CERAMIC,CHIP
C305	2203-006462	C-CERAMIC,CHIP
C318	2203-006474	C-CERAMIC,CHIP
C110	2203-006556	C-CERAMIC,CHIP
C408,C702	2203-006562	C-CERAMIC,CHIP
C135,C141	2203-006604	C-CERAMIC,CHIP
C133	2203-006611	C-CERAMIC,CHIP
C125	2203-006648	C-CERAMIC,CHIP
C103	2203-006665	C-CERAMIC,CHIP
C255	2203-006674	C-CERAMIC,CHIP
C506,C642,C908	2203-006681	C-CERAMIC,CHIP
C340	2203-006693	C-CERAMIC,CHIP
C301,C703,C704,C705	2203-006824	C-CERAMIC,CHIP
C707,C708,C709,C710	2203-006824	C-CERAMIC,CHIP
C432,C435,C436	2203-006838	C-CERAMIC,CHIP
C206,C219,C220,C223	2203-006839	C-CERAMIC,CHIP

Design LOC	SEC CODE	Description
C311,C322,C324,C342	2203-006839	C-CERAMIC,CHIP
C343,C344,C361,C362	2203-006839	C-CERAMIC,CHIP
C404,C410,C411,C464	2203-006839	C-CERAMIC,CHIP
C615,C618,C620,C623	2203-006839	C-CERAMIC,CHIP
C713,C736,C741,C903	2203-006839	C-CERAMIC,CHIP
C904	2203-006839	C-CERAMIC,CHIP
C800	2203-006841	C-CERAMIC,CHIP
C241,C363	2203-006846	C-CERAMIC,CHIP
C332,C333,C334,C335	2203-006872	C-CERAMIC,CHIP
C336,C337,C338,C339	2203-006872	C-CERAMIC,CHIP
C341,C717,C725,C727	2203-006872	C-CERAMIC,CHIP
C730,C731	2203-006872	C-CERAMIC,CHIP
C802	2203-006978	C-CERAMIC,CHIP
C368,C616,C619	2203-006979	C-CERAMIC,CHIP
C246	2203-006994	C-CERAMIC,CHIP
C315,C321,C326	2203-007165	C-CERAMIC,CHIP
C226,C228,C229,C249	2203-007210	C-CERAMIC,CHIP
C352,C353,C801	2203-007210	C-CERAMIC,CHIP
C319,C320,C365,C466	2203-007240	C-CERAMIC,CHIP
C467	2203-007240	C-CERAMIC,CHIP
C115,C128,C209,C317	2203-007270	C-CERAMIC,CHIP
C347,C348,C349	2203-007270	C-CERAMIC,CHIP
C501	2203-007279	C-CERAMIC,CHIP
C216,C224,C225,C312	2203-007317	C-CERAMIC,CHIP
C316,C350,C504	2203-007317	C-CERAMIC,CHIP

Design LOC	SEC CODE	Description
C205,C215,C222,C242	2203-007369	C-CERAMIC,CHIP
C258,C357,C447,C452	2203-007369	C-CERAMIC,CHIP
C444	2203-007391	C-CERAMIC,CHIP
C901	2203-007392	C-CERAMIC,CHIP
C245,C248,C405,C409	2203-007393	C-CERAMIC,CHIP
C412,C413,C417,C437	2203-007393	C-CERAMIC,CHIP
C438,C439,C443	2203-007393	C-CERAMIC,CHIP
C207	2203-007474	C-CERAMIC,CHIP
C359,C360,C514,C738	2404-001474	C-TA,CHIP
L112	2703-001178	INDUCTOR-SMD
L111	2703-001726	INDUCTOR-SMD
L110	2703-002176	INDUCTOR-SMD
L102,L109	2703-002200	INDUCTOR-SMD
L100	2703-002281	INDUCTOR-SMD
L103,L104,L107	2703-002793	INDUCTOR-SMD
L116	2703-002794	INDUCTOR-SMD
L106	2703-002798	INDUCTOR-SMD
L201,L210	2703-002815	INDUCTOR-SMD
L800	2703-002862	INDUCTOR-SMD
L304,L305	2703-002900	INDUCTOR-SMD
L306,L307	2703-002901	INDUCTOR-SMD
L113	2703-002903	INDUCTOR-SMD
L108	2703-002907	INDUCTOR-SMD
L208	2703-002918	INDUCTOR-SMD
L101	2703-002955	INDUCTOR-SMD

Design LOC	SEC CODE	Description
L115	2703-003003	INDUCTOR-SMD
L900,L901	2703-003205	INDUCTOR-SMD
L700,L701,L702	2703-003260	INDUCTOR-SMD
C233	2703-003470	INDUCTOR-SMD
L301,L302,L303	2703-003685	INDUCTOR-SMD
L207	2703-003698	INDUCTOR-SMD
L416	2703-003783	INDUCTOR-SMD
OSC700	2801-004466	OSCILLATOR
OSC600	2801-004543	OSCILLATOR
OSC200	2801-004589	OSCILLATOR
OSC300	2801-004909	OSCILLATOR
OSC301	2809-001342	OSCILLATOR
F500,F501,F502	2901-001454	COMP-SMD
F800,F801,F802,F803	2901-001525	COMP-SMD
F804,F805,F806,F807	2901-001525	COMP-SMD
F200	2904-001752	COMP-SMD
F101	2904-001785	COMP-SMD
F102	2904-001789	COMP-SMD
F201	2909-001330	COMP-SMD
F100	2910-000092	COMP-SMD
FEM100	2911-000147	COMP-SMD
L400,L401,L402,L403	3301-001812	COMP-SMD
L405,L407,L410,L417	3301-001812	COMP-SMD
L418	3301-001812	COMP-SMD
L300	3301-001879	COMP-SMD

Design LOC	SEC CODE	Description
L202,L203,L204,L205	3301-001895	COMP-SMD
L206	3301-001895	COMP-SMD
L411,L412,L413,L414	3301-001917	COMP-SMD
RFS100	3705-001731	CONNECTOR
SIM300	3709-001540	CONNECTOR
CD300	3709-001575	CONNECTOR
HDC600,HEA402	3711-005550	CONNECTOR
HEA401	3711-005873	CONNECTOR
HDC900	3711-005976	CONNECTOR
HDC500	3711-005981	CONNECTOR
HEA400	3711-006650	CONNECTOR
BTC700	3711-007425	CONNECTOR
IFC500	3722-003065	CONNECTOR
BAT700	4302-001180	COMP-SMD
SC100,SC101,SC102	GH70-03349A	COMP-SMD
SC103,SC104,SC105	GH70-03349A	COMP-SMD
ANT100,ANT101,ANT200	GH71-08731A	COMP-SMD
ANT201,SPK400,SPK401	GH71-08731A	COMP-SMD
ANT202	GH71-09464A	COMP-SMD
R306,R311,R416,R417	GH80-03320A	COMP-SMD
R424,R425,R441,R662	GH80-03320A	COMP-SMD
R681,R701,R702,R704	GH80-03320A	COMP-SMD
R705	GH80-03320A	COMP-SMD
C428,R214,R301,R321	GH80-03321A	COMP-SMD
R322,R413,R423,R442	GH80-03321A	COMP-SMD
R607,R644,R684,R685	GH80-03321A	COMP-SMD
R686,R687,R700,R801	GH80-03321A	COMP-SMD

- This Document can not be used without Samsung's authorization -

5-2. Cellular phone Parts list : GT-I5800DKABOG

Design LOC	Description	SEC CODE
QAR01	ASSY ETC-RCV ASSY(GT-I5800)	GH59-09322A
QBA01	INNER BATTERY PACK-1500MAH,SIL,UNI,MAIN	GH43-03310A
QBC00	ASSY COVER-BATTERY	GH98-17538A
QBR05	ASSY BRACKET-MOTOR	GH98-16631A
QCA01	ASSY CAMERA-MODULE,GT-I5800(3M)	GH96-04518A
QCK02	PMO KEY-POWER	GH72-60514A
QCR03	SCREW-MACHINE	6001-001811
QFR01	ASSY CASE-FRONT	GH98-17229A
QIF01	PMO COVER-IF	GH72-60512A
QKP01	ASSY KEYPAD-(EU/BLACK)	GH98-17238A
QLB01	ASSY BRACKET-LCD	GH98-17230A
QLC01	ASSY LCD-GT-I5800_3.2",WQVGA	GH96-04527A
QME01	KEY FPCB-MAIN KEY PBA(GT-I5800)	GH59-09724A
QME03	TOUCH/PANEL-GT-I5800	GH59-09686A
QME05	KEY FPCB-SENSOR ASSY(GT-I5800)	GH59-09267A
QMO01	MOTOR LINEAR VIBRATION-GT_S7330	GH31-00449A
QMP01	A/S ASSY-PBA MAIN(COMM)GT-I5800	GH82-05043A
QRE01	ASSY CASE-REAR	GH98-17527A
QSP01	MODULE-GT-I5800,SPK+ANT	GH59-09753A
QVK01	KEY FPCB-VOL KEY(GT-I5800)	GH59-09270A
QVO01	PMO KEY-VOLUME	GH72-60513A

www.s-manuals.com