

SAMSUNG

GSM TELEPHONE

GT-E1081

SERVICE *Manual*

GSM TELEPHONE



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6. MAIN Electrical Parts List

SEC CODE	Design LOC	Description
0401-001110	D200	DIODE-SWITCHING
0401-001110	D201	DIODE-SWITCHING
0403-001547	ZD200	DIODE-ZENER
0406-001286	ZD301	DIODE-TVS
0406-001286	ZD302	DIODE-TVS
0406-001288	D300	DIODE-TVS
0406-001288	D301	DIODE-TVS
0406-001288	D302	DIODE-TVS
0406-001288	D303	DIODE-TVS
0406-001288	D304	DIODE-TVS
0601-002070	LED301	LED
0601-002070	LED302	LED
0601-002070	LED303	LED
0601-002070	LED304	LED
0601-002233	LED300	TORCH LED
1003-001440	TR100	IC
1108-000217	UME200	MEMORY
1201-002931	PAM100	PAM
1203-005512	U300	IC
1203-005512	U302	IC
1203-005686	U103	IC
1203-005957	U200	IC
1205-003679	U201	IC
1404-001221	TH200	THERMISTOR
2007-000139	R301	R-CHIP
2007-000141	R300	R-CHIP
2007-000141	R306	R-CHIP
2007-000141	R312	R-CHIP
2007-000144	R208	R-CHIP
2007-000148	R200	R-CHIP
2007-000148	R201	R-CHIP
2007-000148	R217	R-CHIP
2007-000151	R109	R-CHIP
2007-000162	R110	R-CHIP
2007-000162	R209	R-CHIP
2007-000172	R207	R-CHIP

SEC CODE	Design LOC	Description
2007-000172	R302	R-CHIP
2007-000172	R303	R-CHIP
2007-000172	R304	R-CHIP
2007-000172	R305	R-CHIP
2007-000172	R307	R-CHIP
2007-000172	R308	R-CHIP
2007-000173	R309	R-CHIP
2007-000173	R310	R-CHIP
2007-000174	R311	R-CHIP
2007-001301	R206	R-CHIP
2007-001333	R210	R-CHIP
2007-003025	R108	R-CHIP
2007-008500	R203	R-CHIP
2203-000386	C220	C-CERAMIC
2203-000386	C323	C-CERAMIC
2203-000425	C225	C-CERAMIC
2203-000425	C228	C-CERAMIC
2203-000679	C303	C-CERAMIC
2203-000696	C122	C-CERAMIC
2203-000812	C115	C-CERAMIC
2203-000812	C120	C-CERAMIC
2203-000812	C121	C-CERAMIC
2203-000812	C229	C-CERAMIC
2203-000812	U308	C-CERAMIC
2203-000812	U309	C-CERAMIC
2203-001153	C328	C-CERAMIC
2203-001153	U310	C-CERAMIC
2203-001385	C118	C-CERAMIC
2203-001385	C119	C-CERAMIC
2203-002709	C209	C-CERAMIC
2203-002709	C210	C-CERAMIC
2203-002709	C230	C-CERAMIC
2203-005057	C112	C-CERAMIC
2203-005057	L113	C-CERAMIC
2203-005281	C114	C-CERAMIC
2203-005281	C116	C-CERAMIC

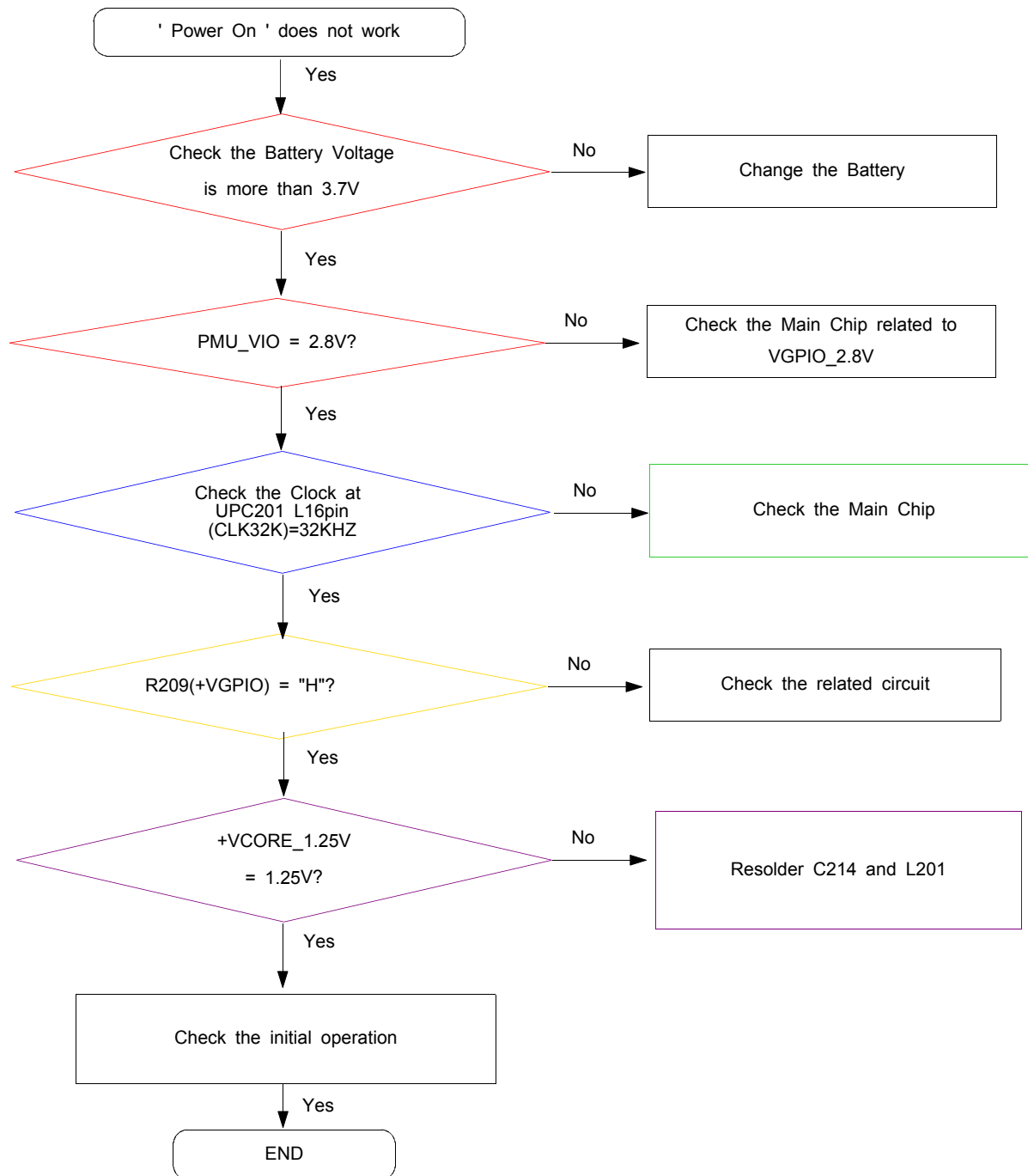
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2203-005482	C302	C-CERAMIC
2203-005482	C321	C-CERAMIC
2203-005482	C325	C-CERAMIC
2203-006048	C211	C-CERAMIC
2203-006048	C212	C-CERAMIC
2203-006048	C215	C-CERAMIC
2203-006208	C201	C-CERAMIC
2203-006208	C202	C-CERAMIC
2203-006348	C223	C-CERAMIC
2203-006399	C200	C-CERAMIC
2203-006399	C203	C-CERAMIC
2203-006399	C204	C-CERAMIC
2203-006399	C205	C-CERAMIC
2203-006399	C206	C-CERAMIC
2203-006399	C214	C-CERAMIC
2203-006399	C314	C-CERAMIC
2203-006399	C315	C-CERAMIC
2203-006562	C111	C-CERAMIC
2203-006562	C304	C-CERAMIC
2203-006562	C305	C-CERAMIC
2203-006562	C312	C-CERAMIC
2203-006562	C313	C-CERAMIC
2203-006824	C207	C-CERAMIC
2203-006824	C208	C-CERAMIC
2203-006824	C227	C-CERAMIC
2203-006841	C222	C-CERAMIC
2203-006841	C226	C-CERAMIC
2203-007270	C308	C-CERAMIC
2203-007279	C109	C-CERAMIC
2404-001377	C322	C-CERAMIC
2703-001733	L111	INDUCTOR
2703-002170	L109	INDUCTOR
2703-002170	L114	INDUCTOR
2703-002176	L104	INDUCTOR

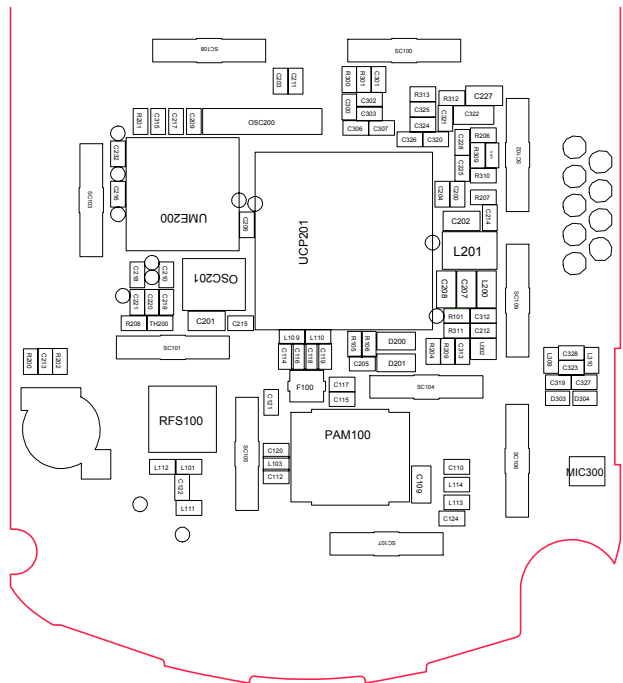
SEC CODE	Design LOC	INDUCTORDescription
2703-002201	L302	INDUCTOR
2703-002201	L303	INDUCTOR
2703-002201	L304	INDUCTOR
2703-002201	L305	INDUCTOR
2703-002201	L306	INDUCTOR
2703-002201	L307	INDUCTOR
2703-002201	L308	INDUCTOR
2703-002201	L309	INDUCTOR
2703-002203	L103	INDUCTOR
2703-002204	L110	INDUCTOR
2703-002367	L102	INDUCTOR
2703-003184	L201	INDUCTOR
2801-004805	OSC201	CRYSTAL-UNIT
2801-004882	OSC200	CRYSTAL-UNIT
2904-001879	F100	FILTER-SAW
3301-001158	L200	CORE-FERRITE BEAD
3705-001503	RFS100	CONNECTOR-COAXIAL
3709-001488	SIM200	CONNECTOR-CARD EDGE
3710-002683	IFC300	CONNECTOR-SOCKET
3711-006808	BTC200	CONNECTOR-HEADER
GH70-03276A	SC100	ONBOARD-CLIP-4
GH70-03276A	SC101	ONBOARD-CLIP-4
GH70-03276A	SC102	ONBOARD-CLIP-4
GH70-03276A	SC103	ONBOARD-CLIP-4
GH70-03276A	SC104	ONBOARD-CLIP-4
GH70-03276A	SC105	ONBOARD-CLIP-4
GH70-03276A	SC106	ONBOARD-CLIP-4
GH70-03276A	SC107	ONBOARD-CLIP-4
GH70-03276A	SC108	ONBOARD-CLIP-4
GH70-03276A	SC109	ONBOARD-CLIP-4

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

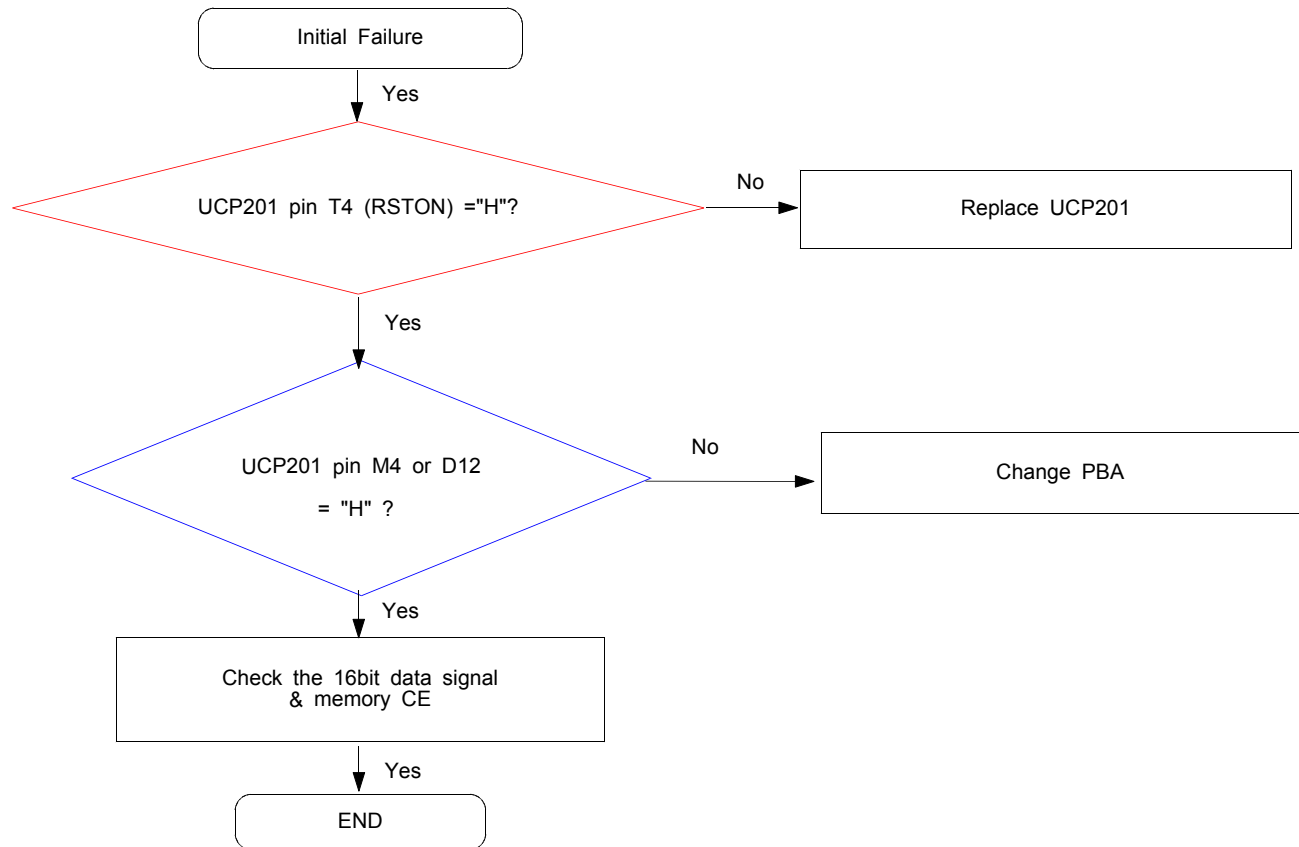
9. Flow Chart of Troubleshooting

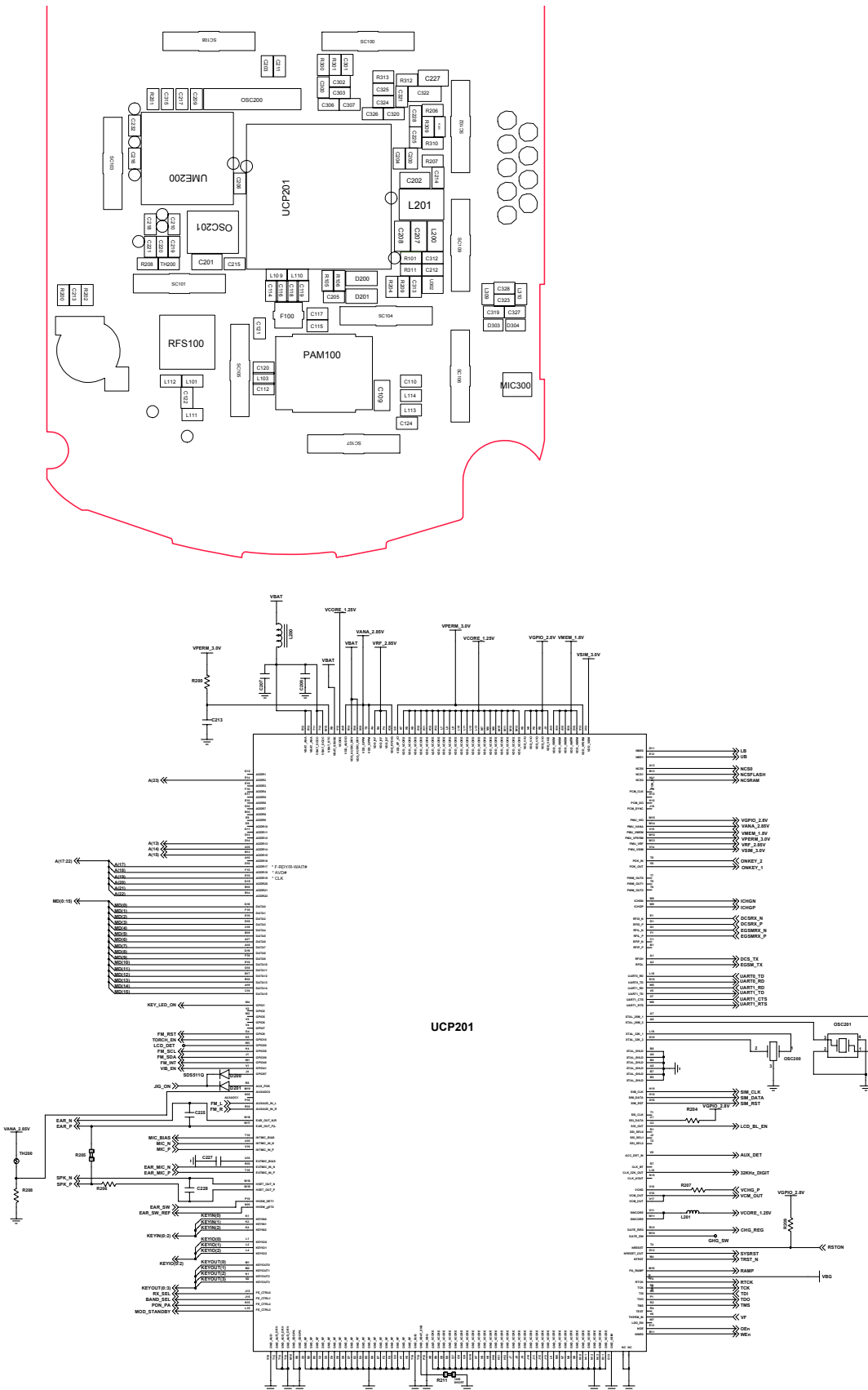
9-1. Power On



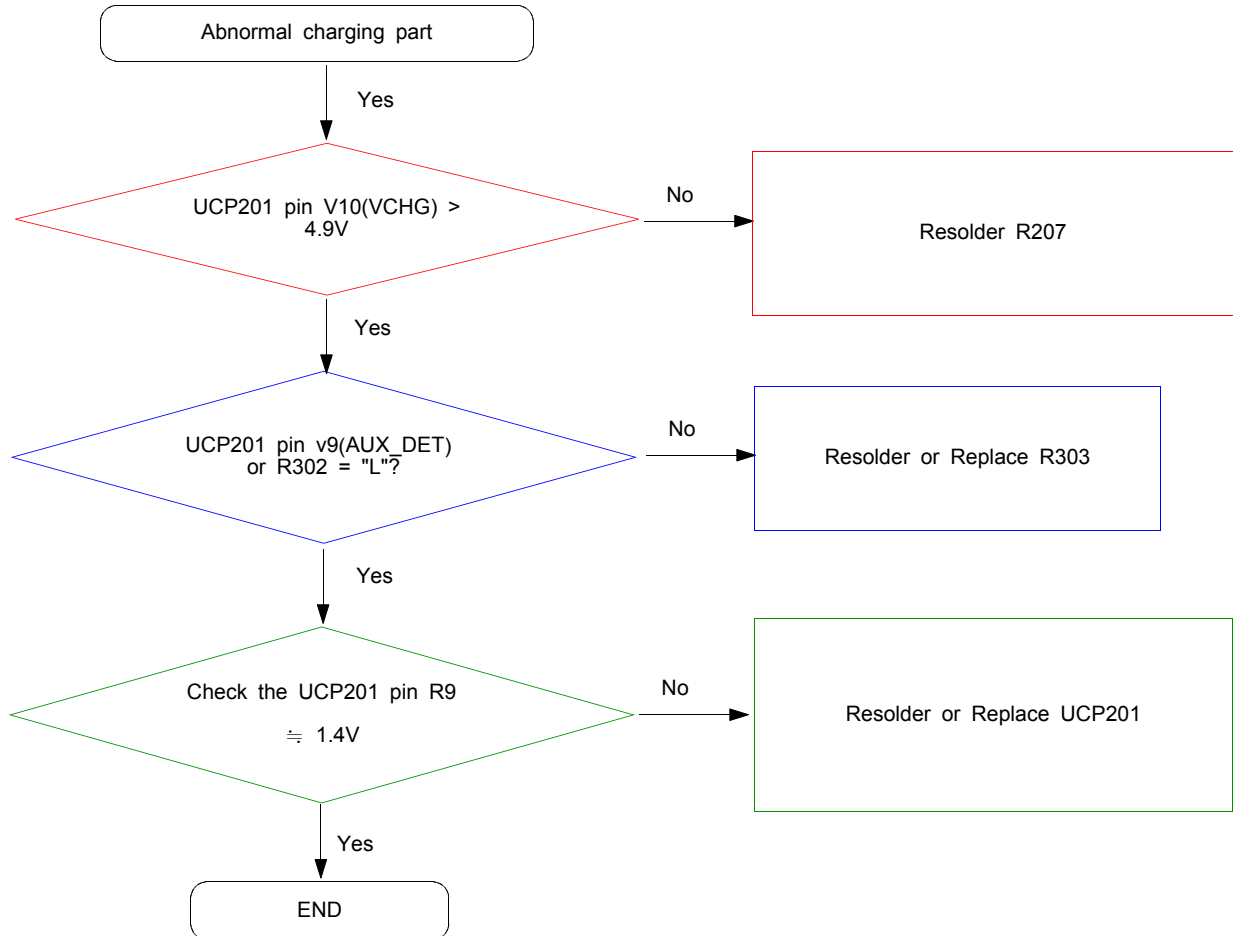


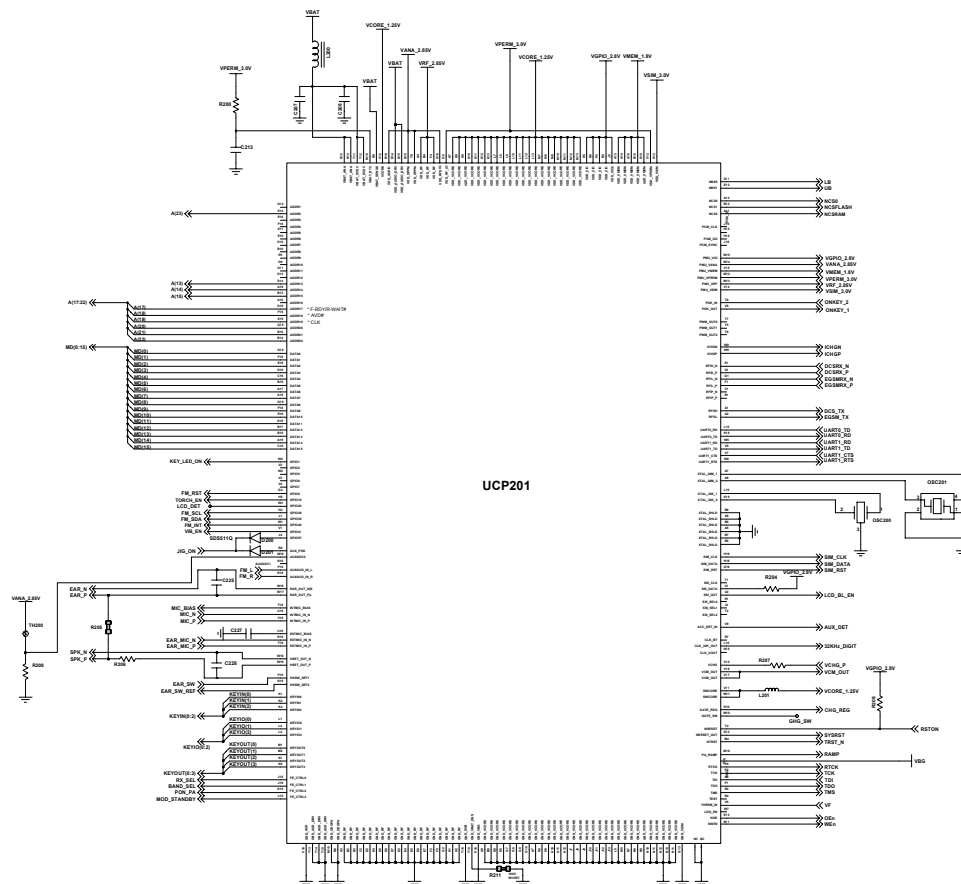
9-2. Initial



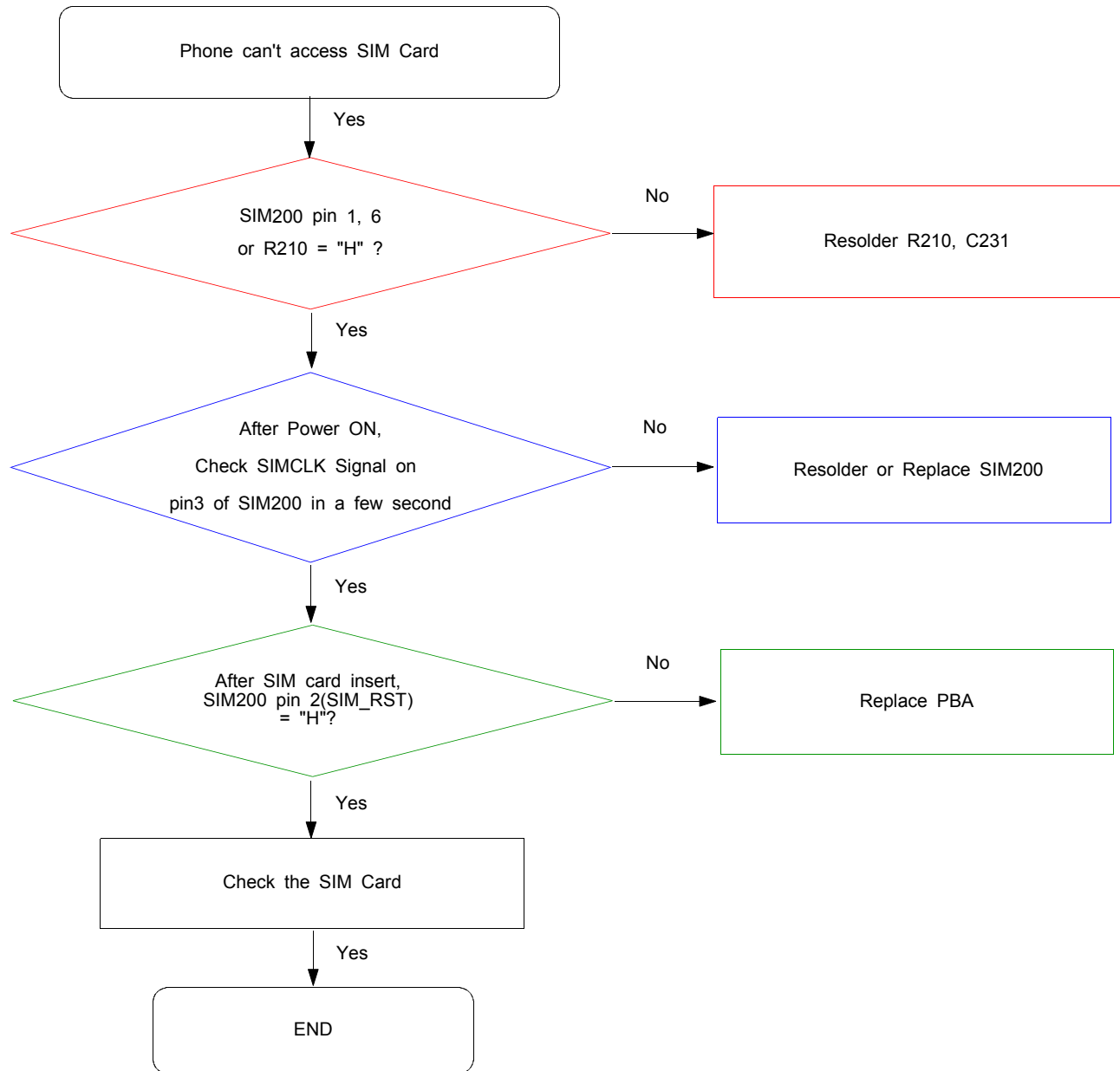


9-3. Charging Part

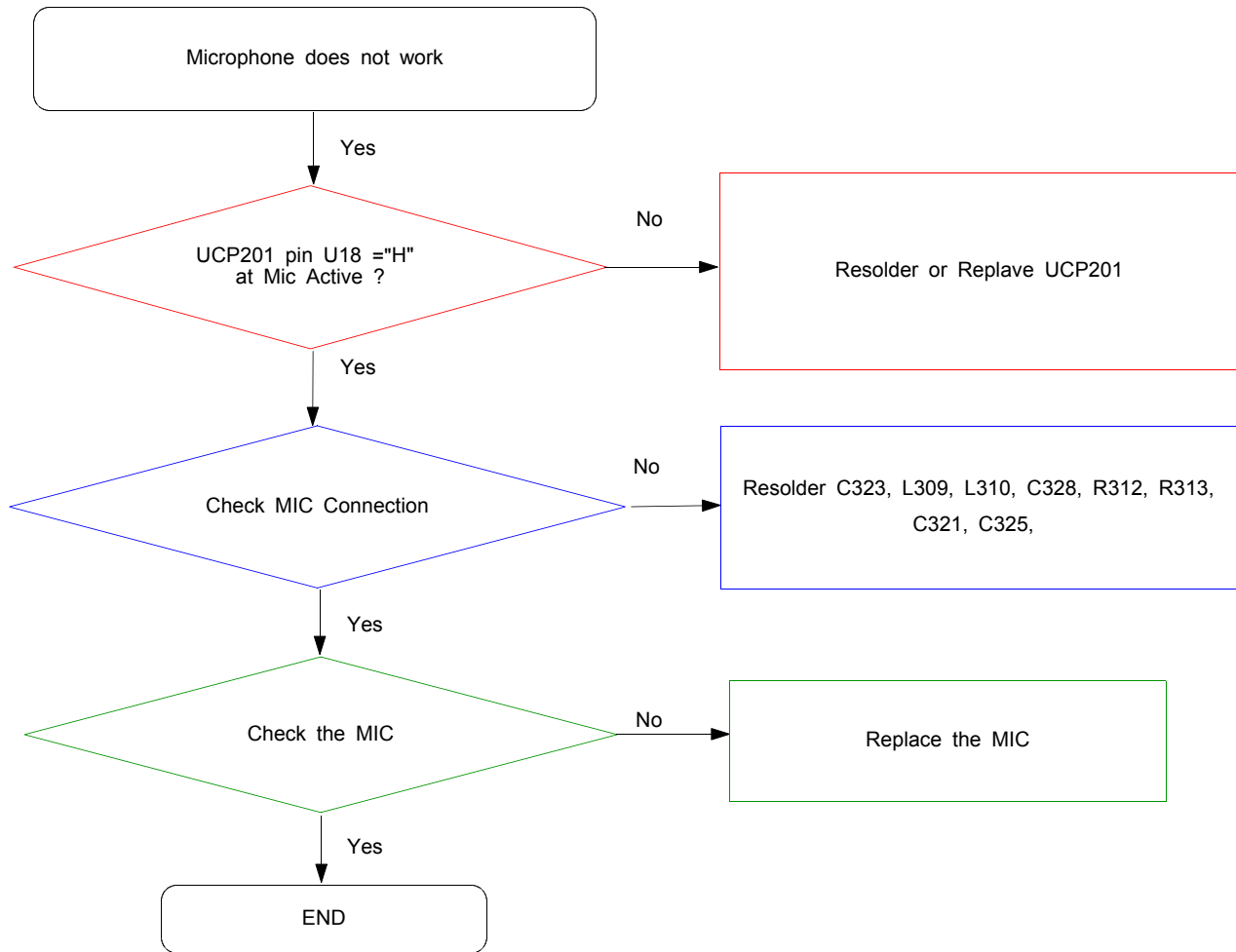




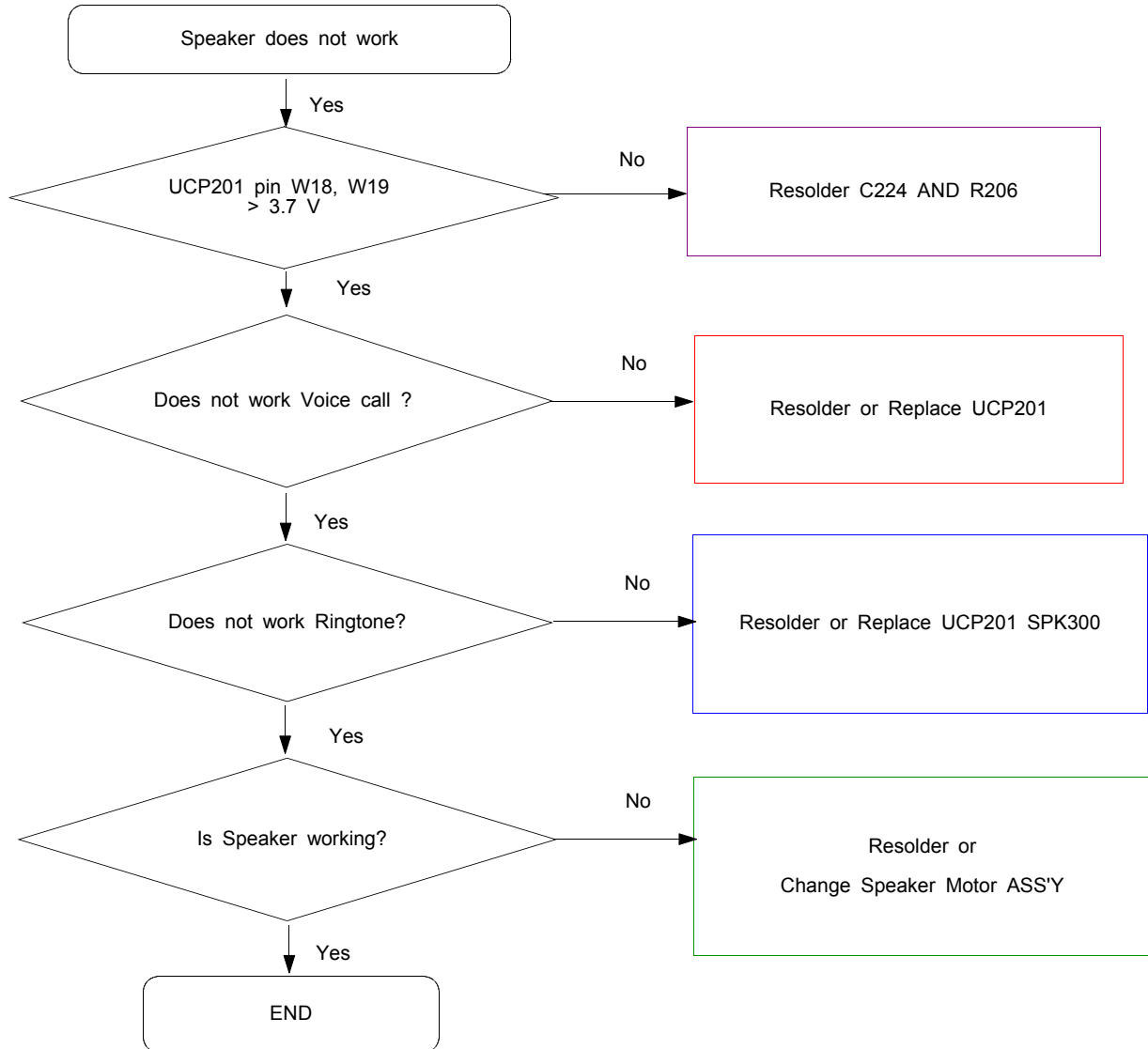
9-4. Sim Part



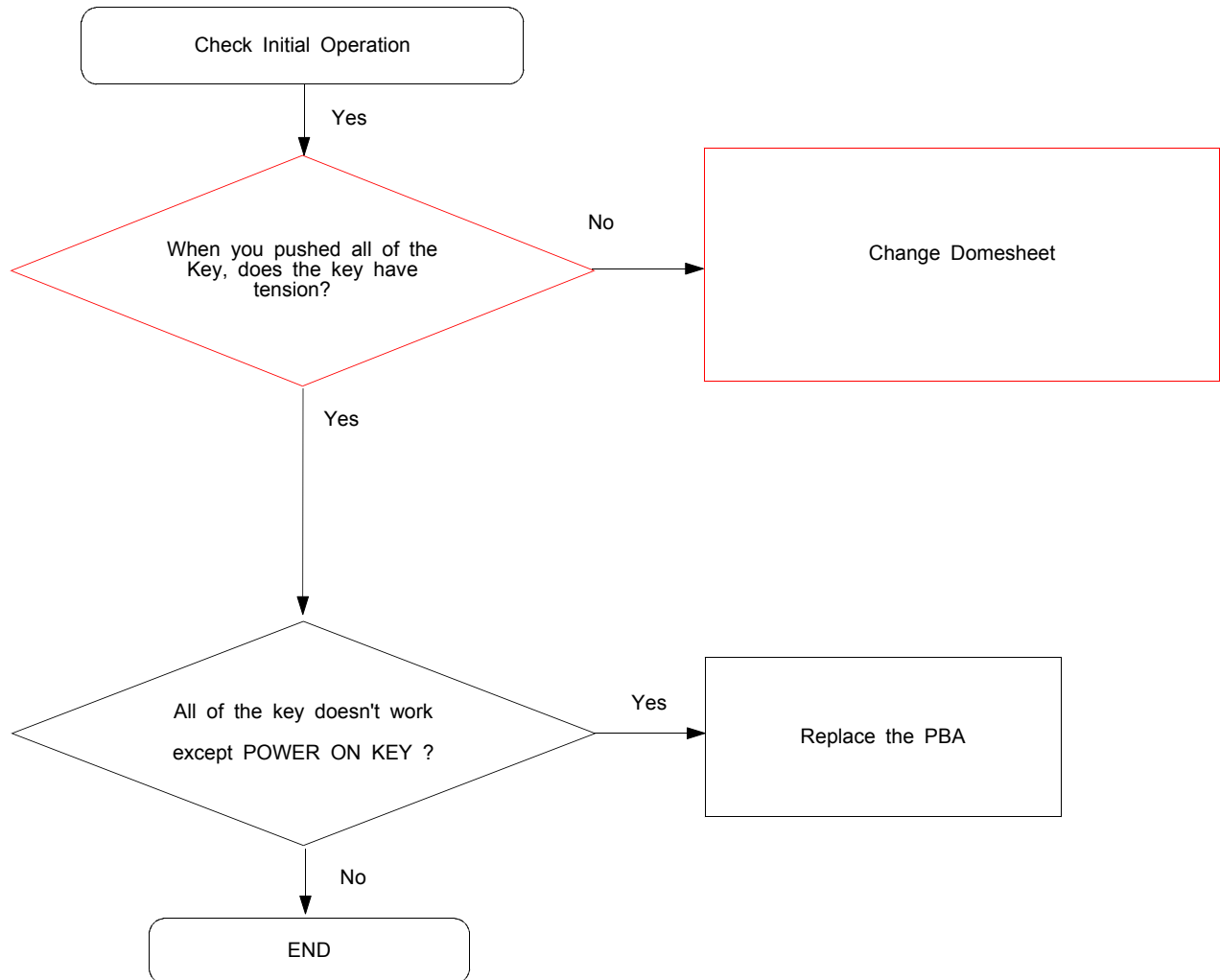
9-5. Microphone Part

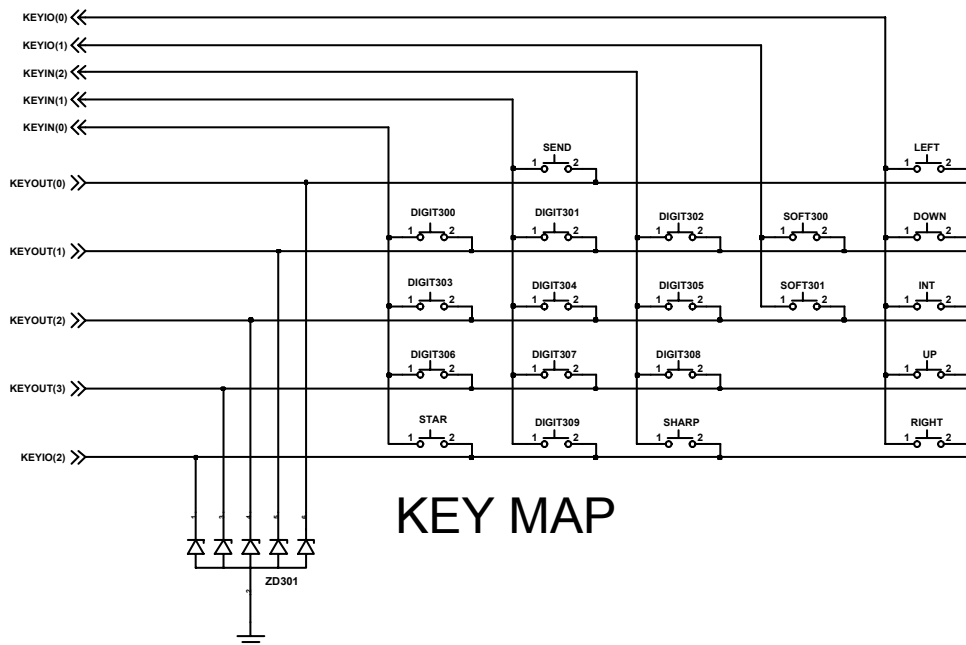
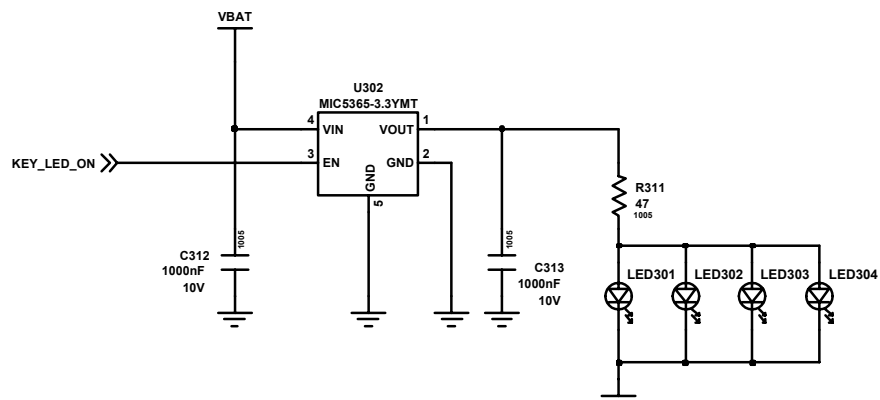
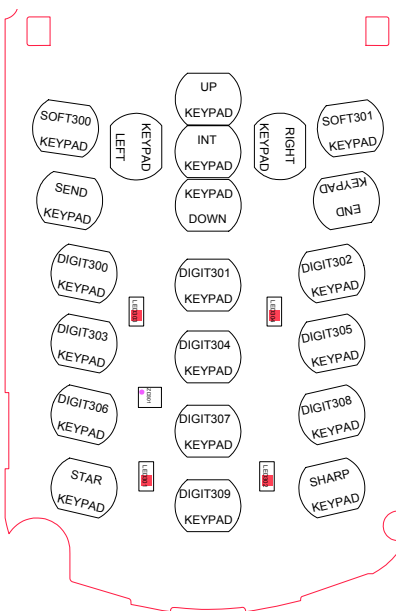


9-6. Speaker Part



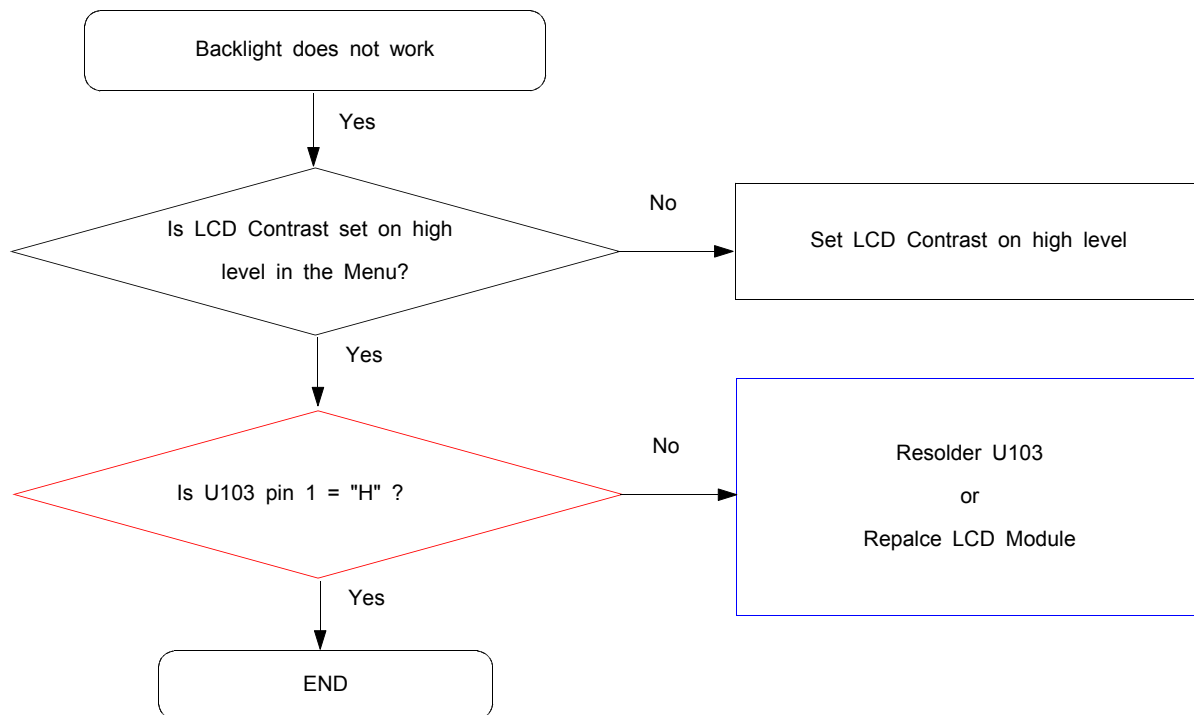
9-7. Key Data Input

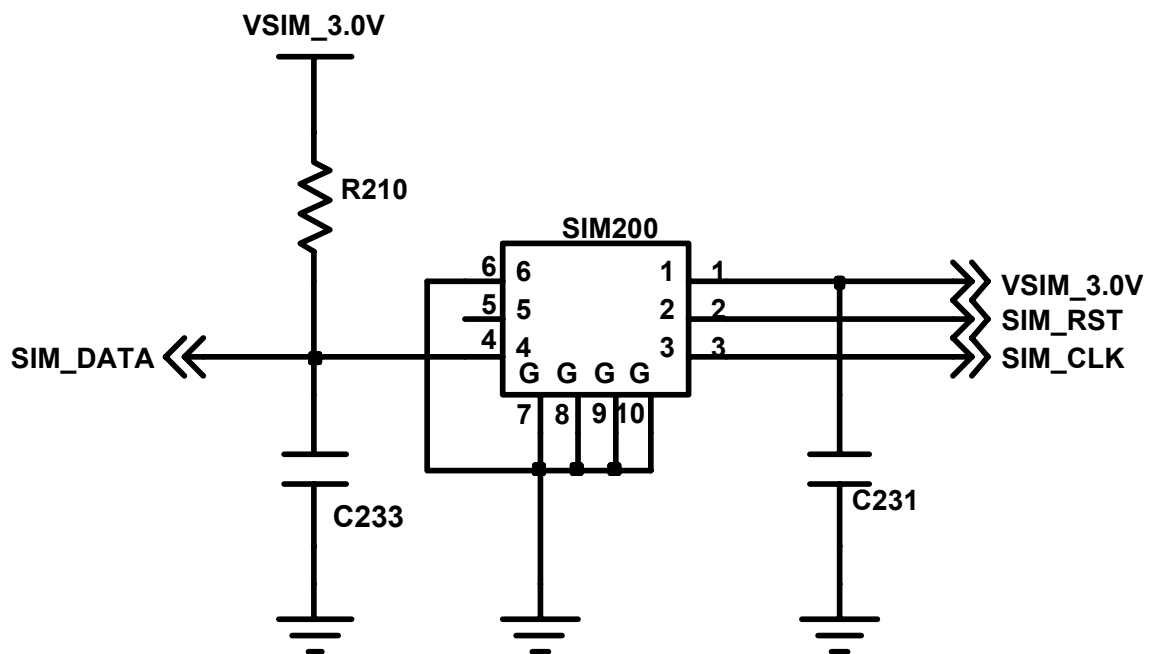
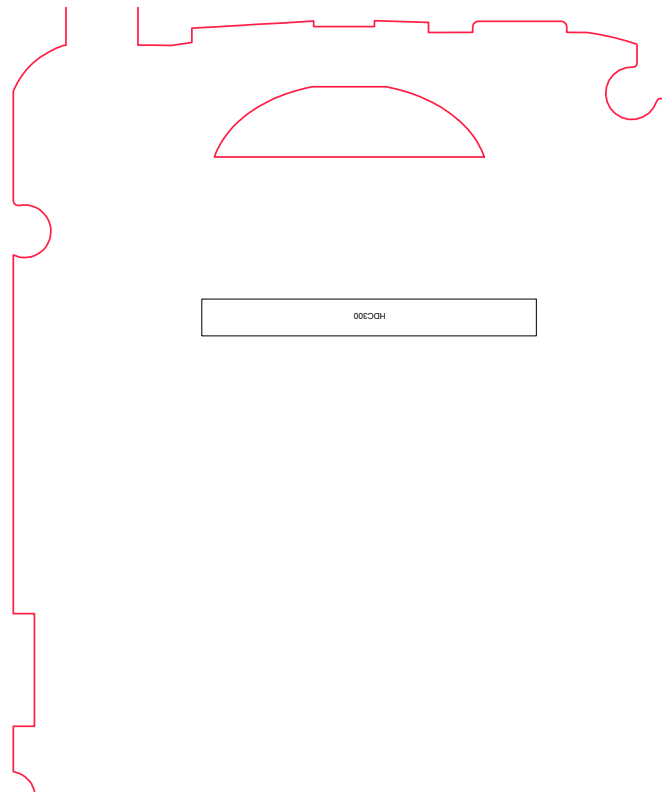




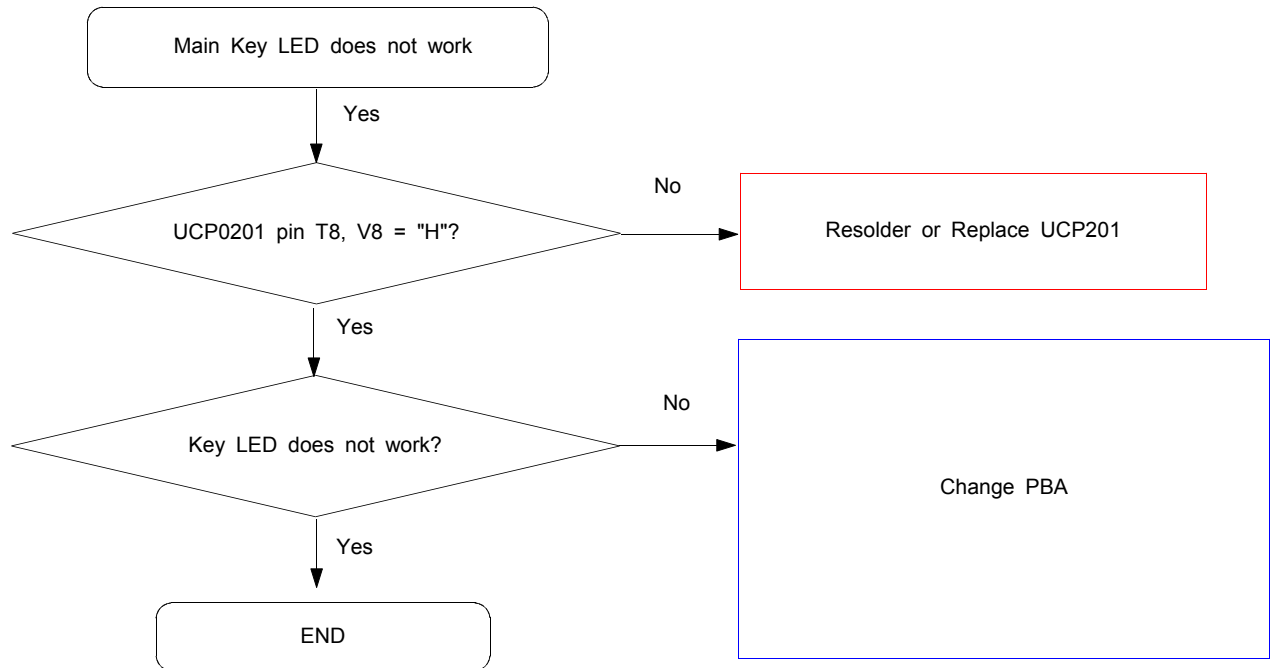
KEY MAP

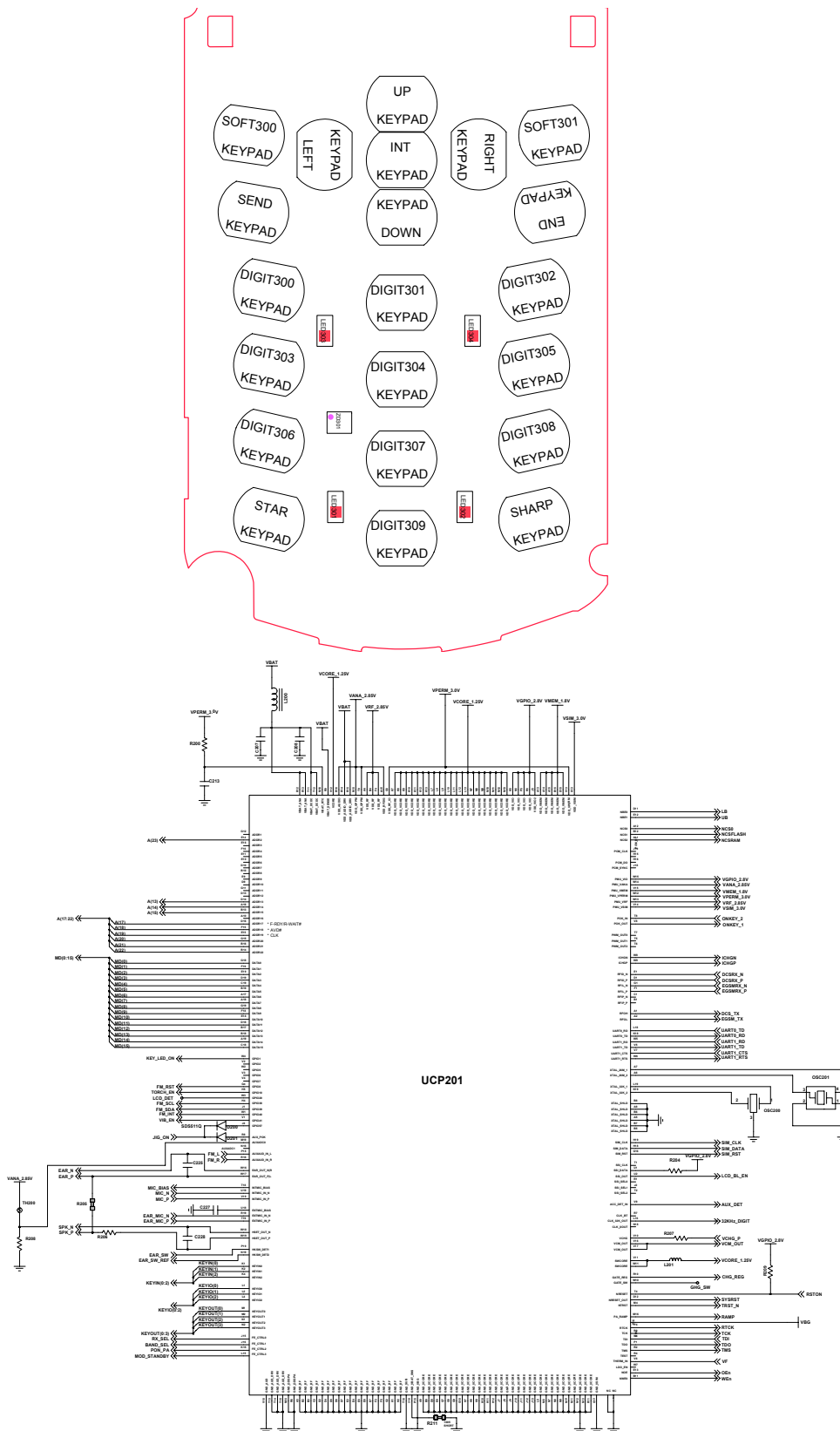
9-8. Back Light (for Color Main LCD)



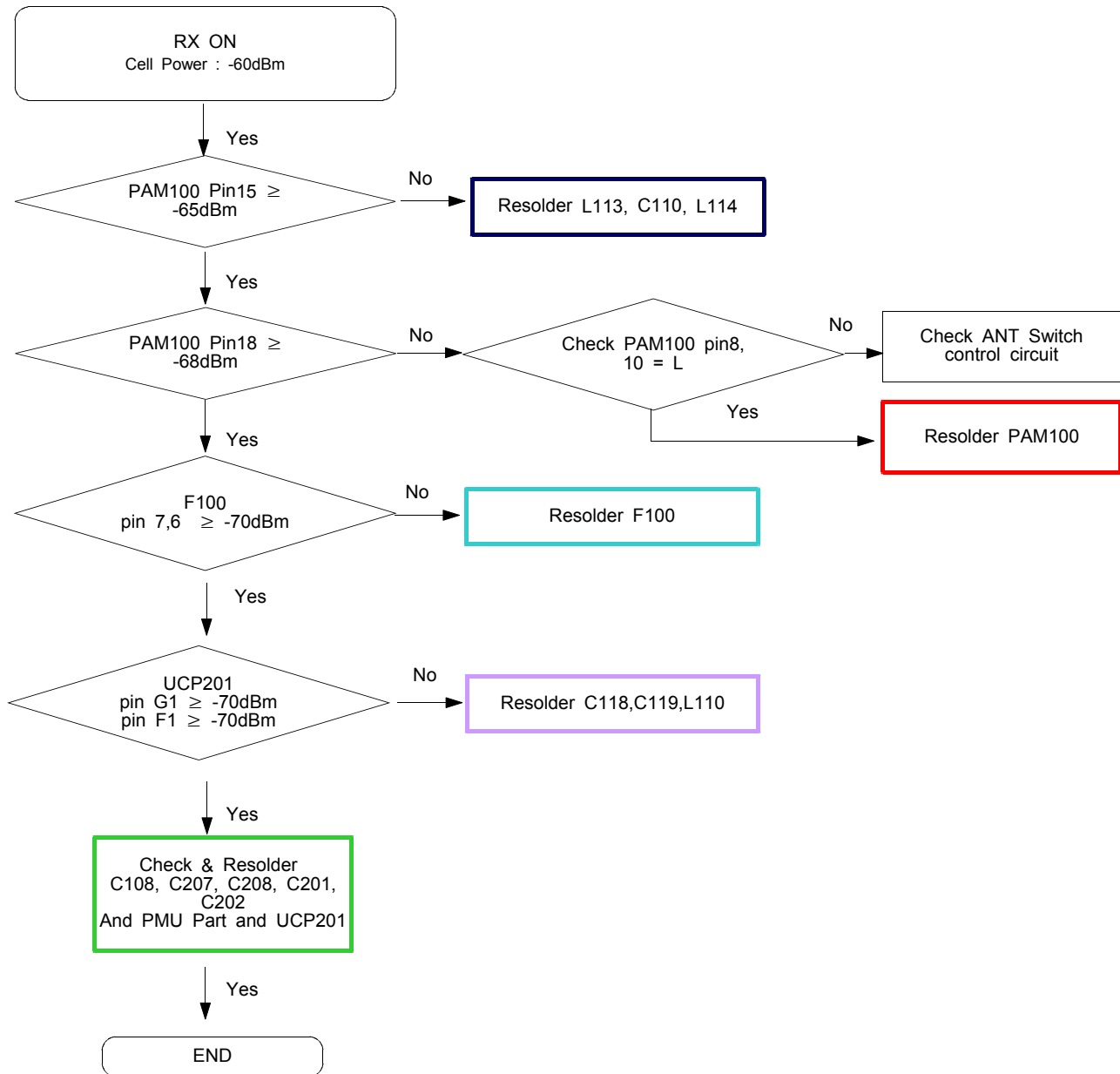


9-9. Key Back Light

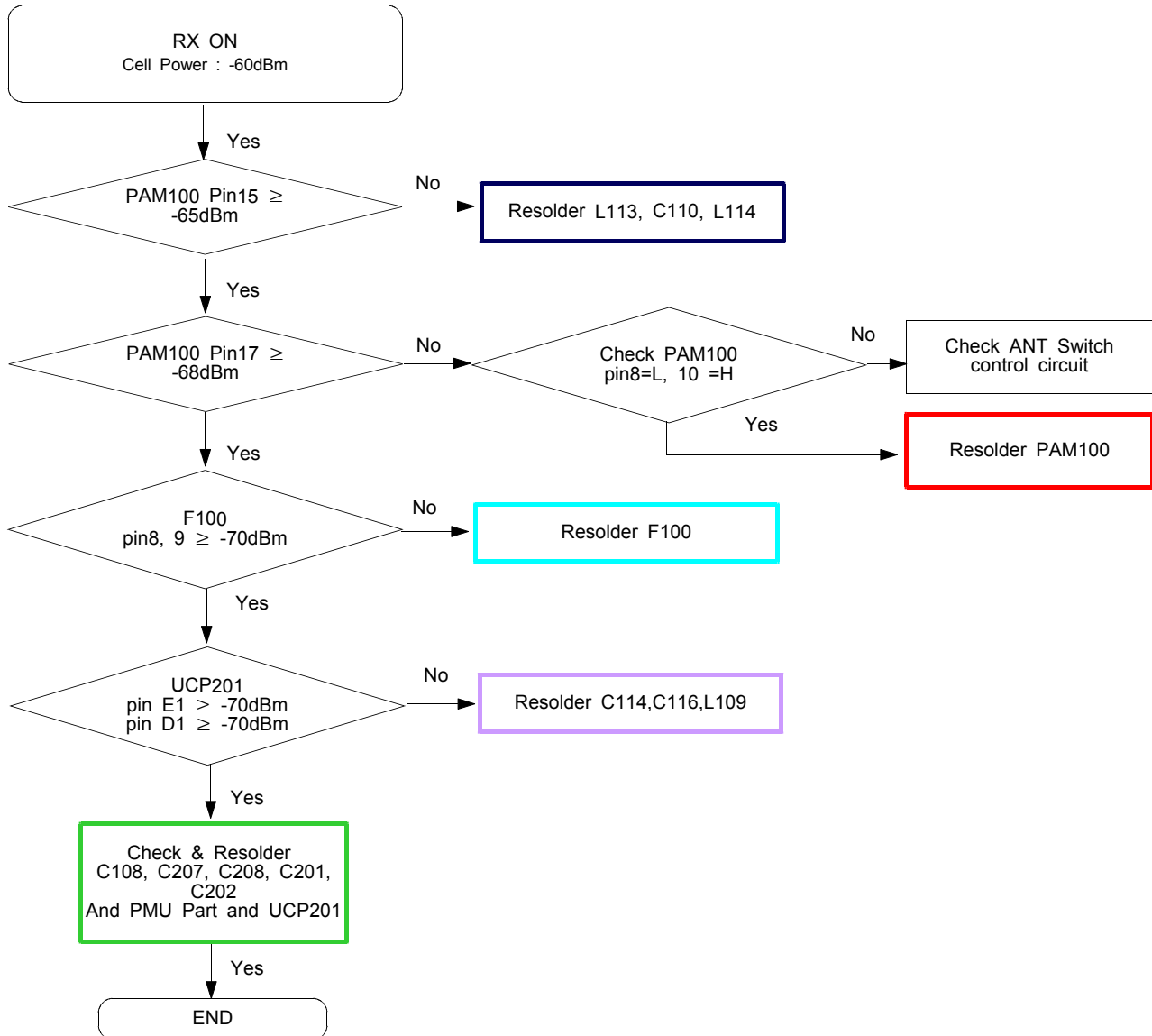




9-10. GSM900 Receiver

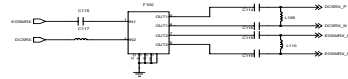
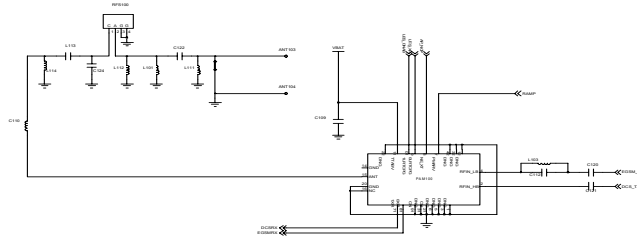


9-11. DCS Receiver

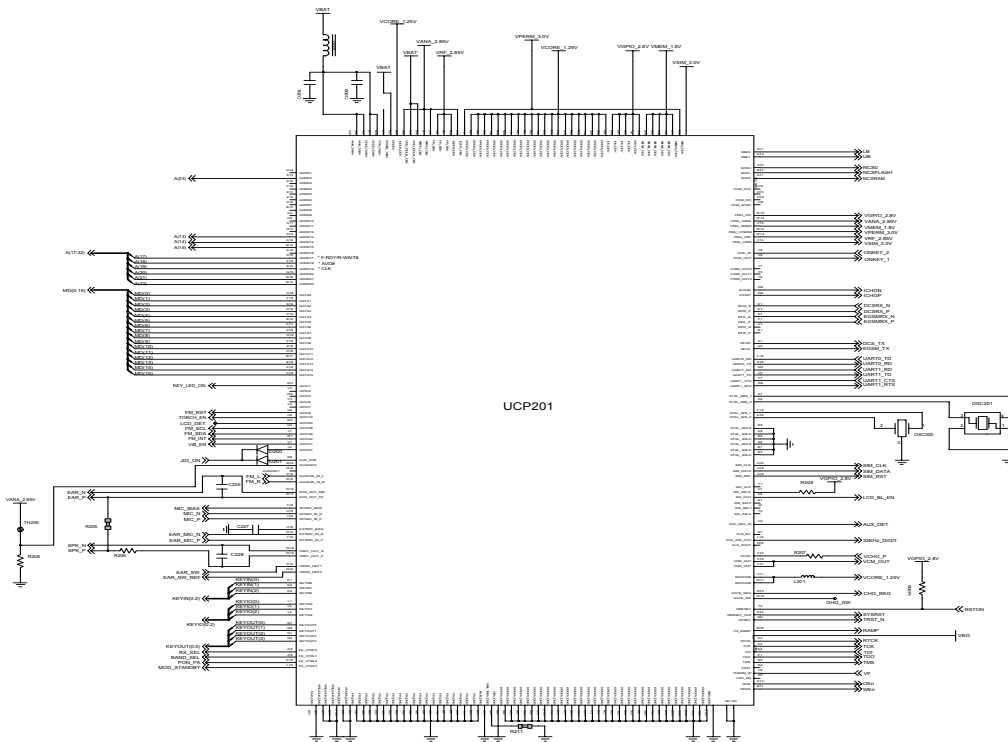


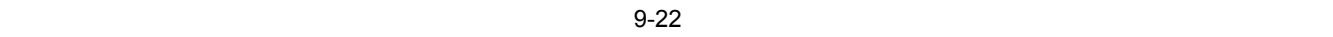
	MOD_STANDBY	POW_PA	SHIMM_SEL	RX_SEL
STANDBY	L	-	-	-
EGSM_RX	H	L	L	H
DGSM_RX	H	L	H	H
EGSM_TX	H	H	L	-
DGSM_TX	H	H	H	-

TX Module S/W Control Circuit

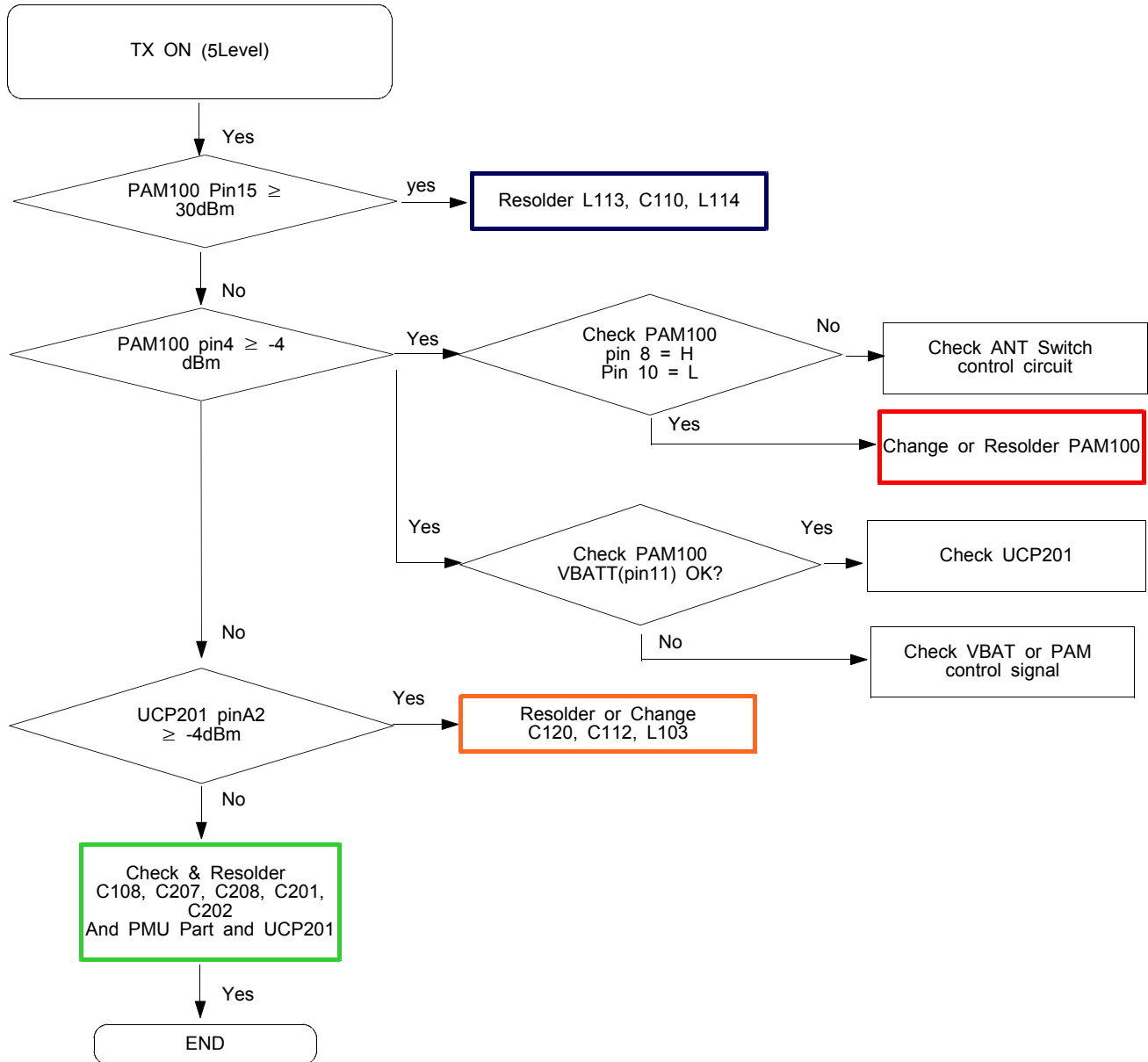


RF Part

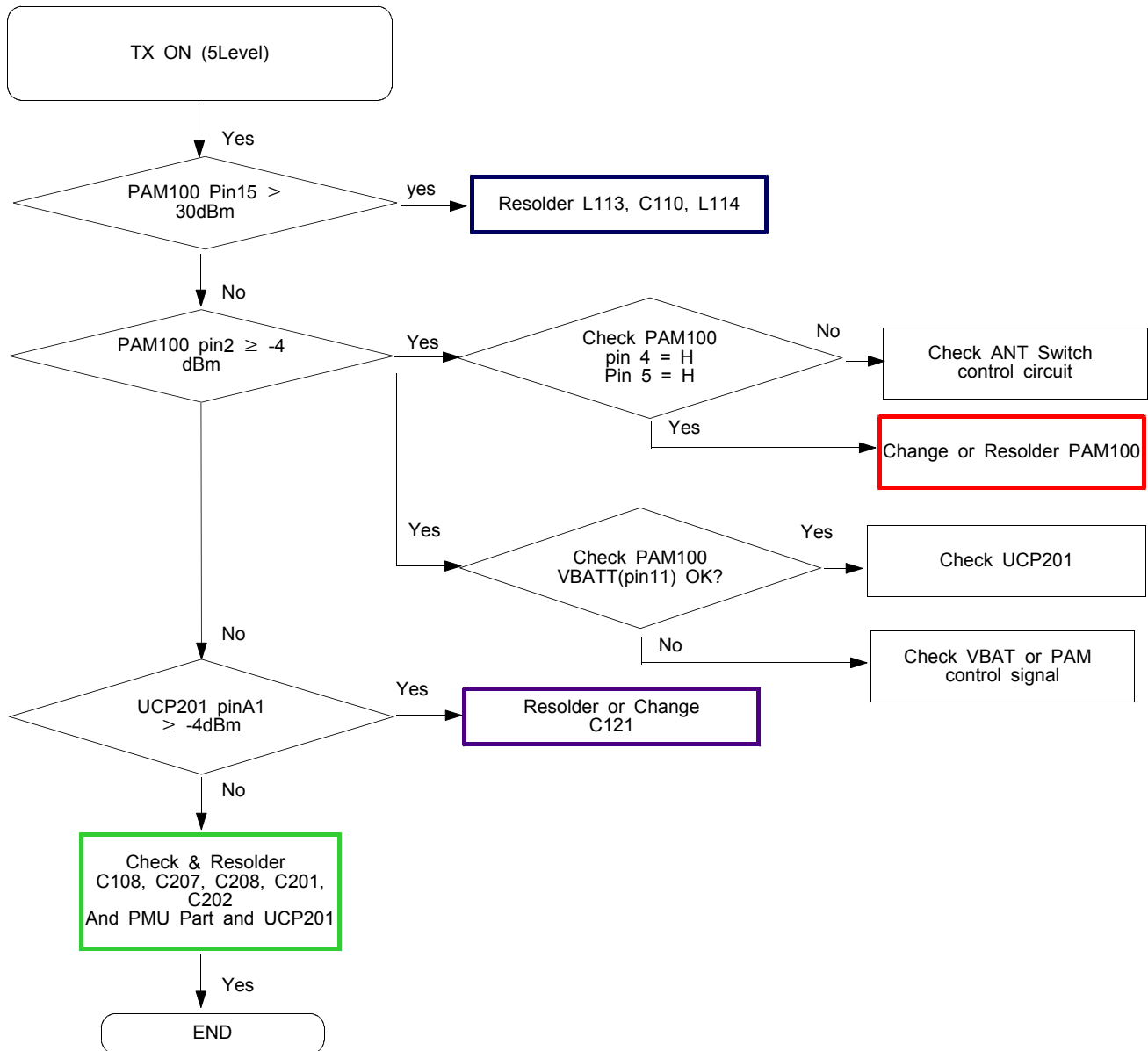


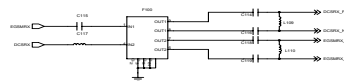


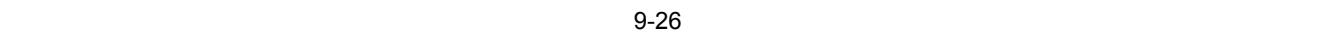
9-12. GSM900 Transmitter



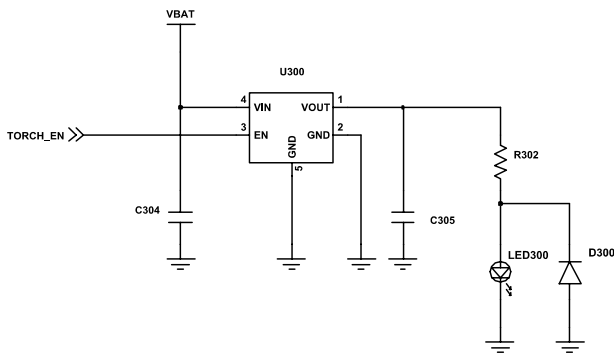
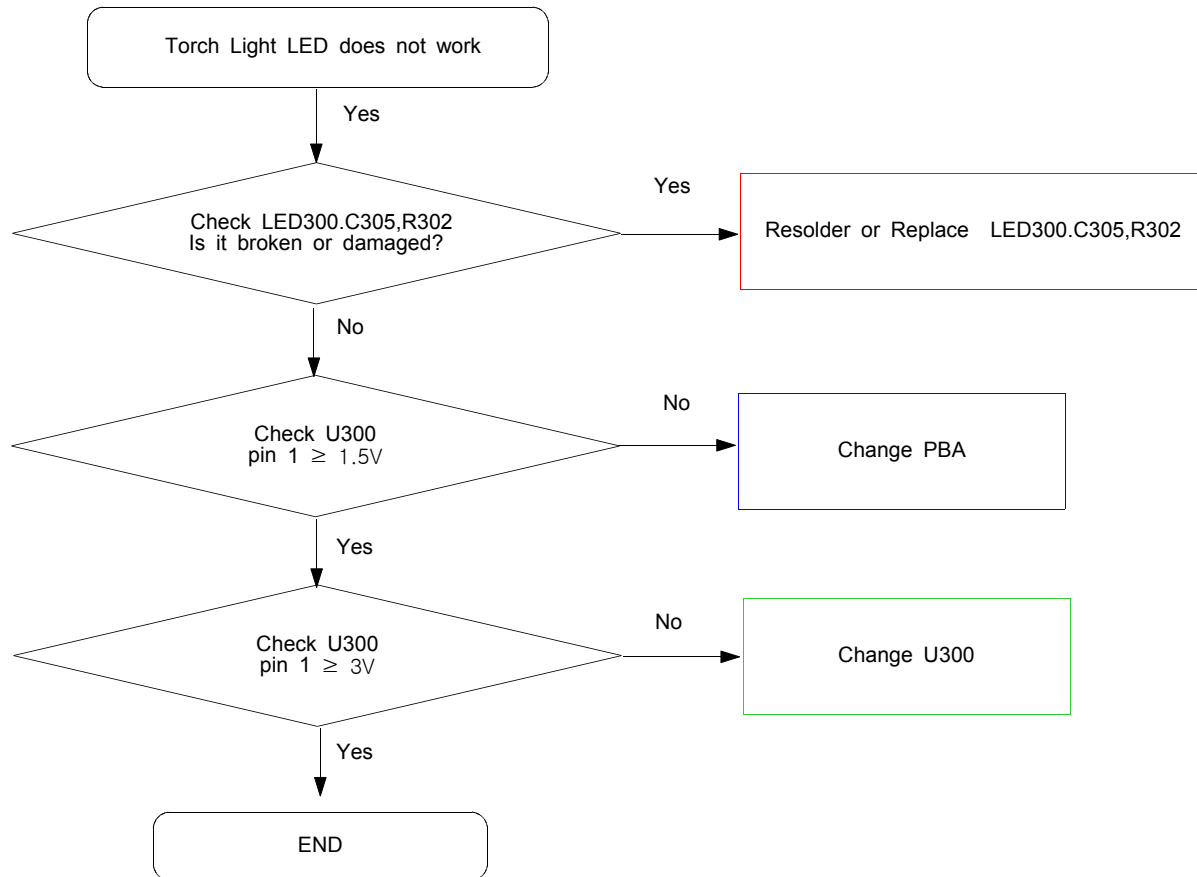
9-13. DCS Transmitter

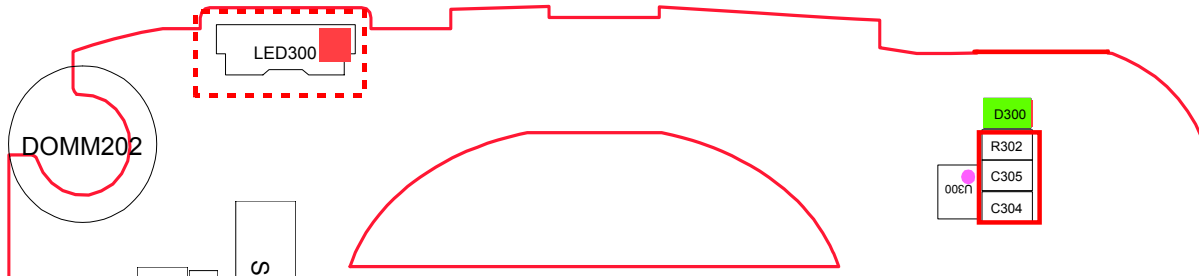


TX Module S/W Control Circuit



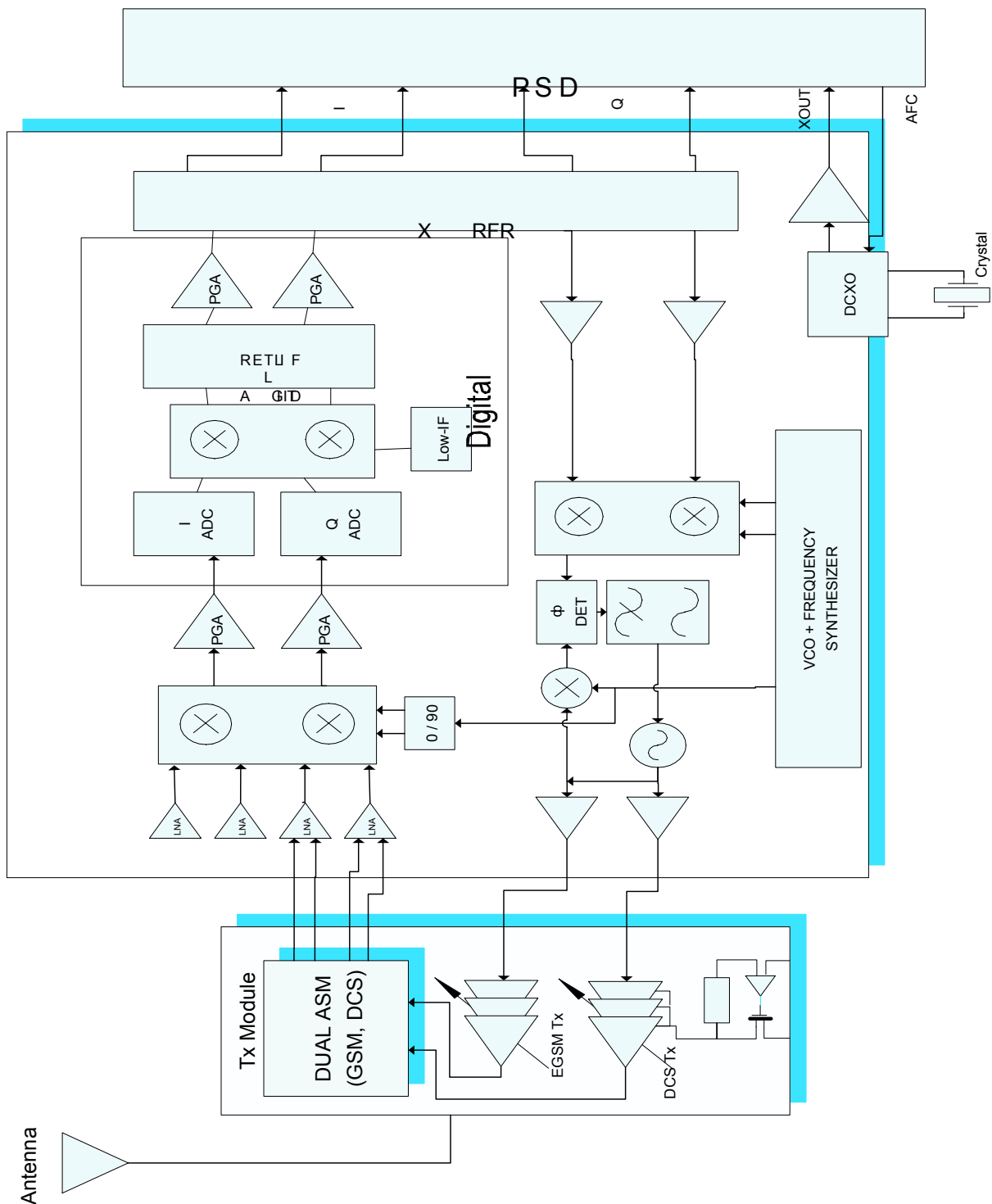
9-14. Torch Light



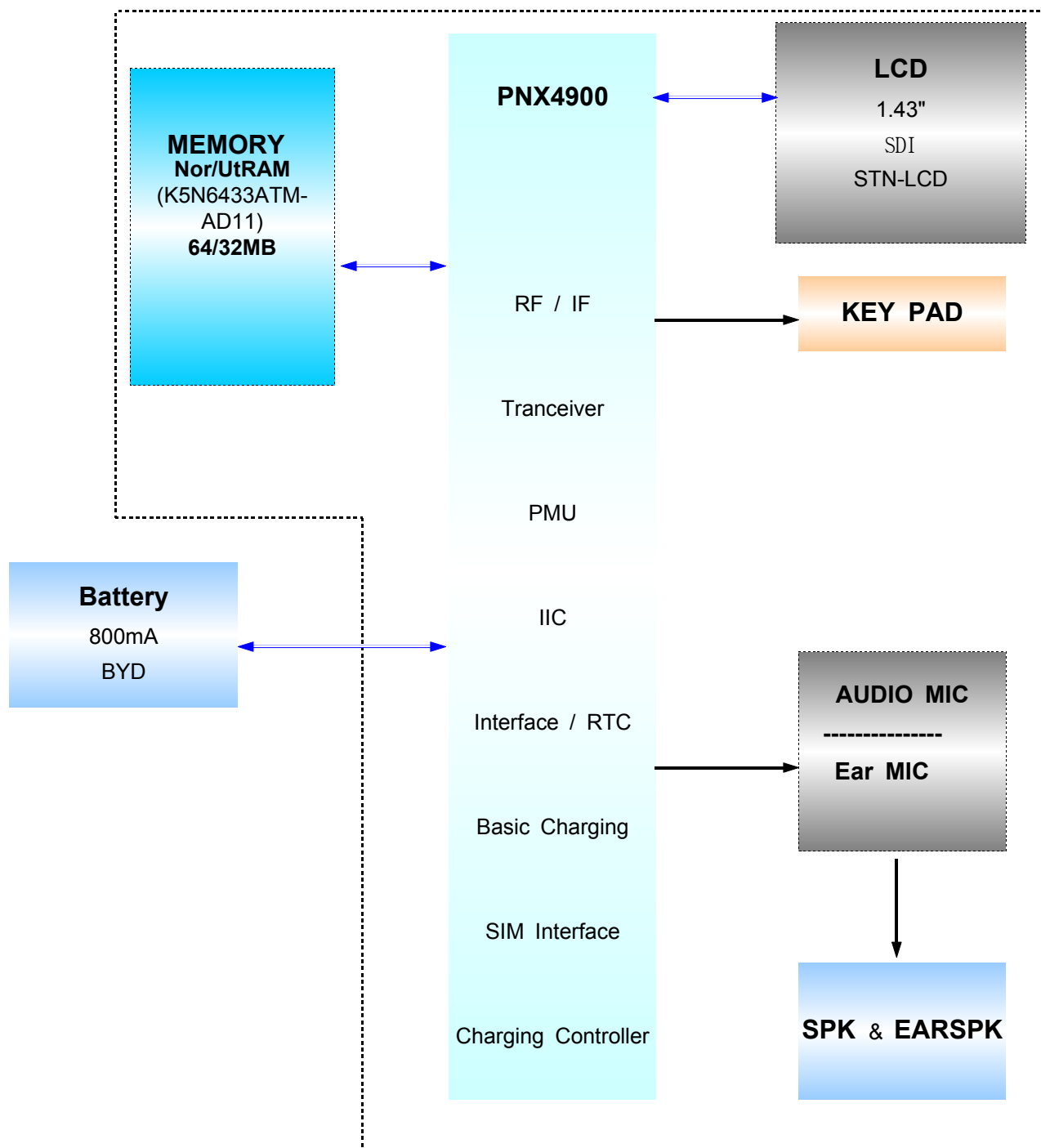


7. Block Diagrams

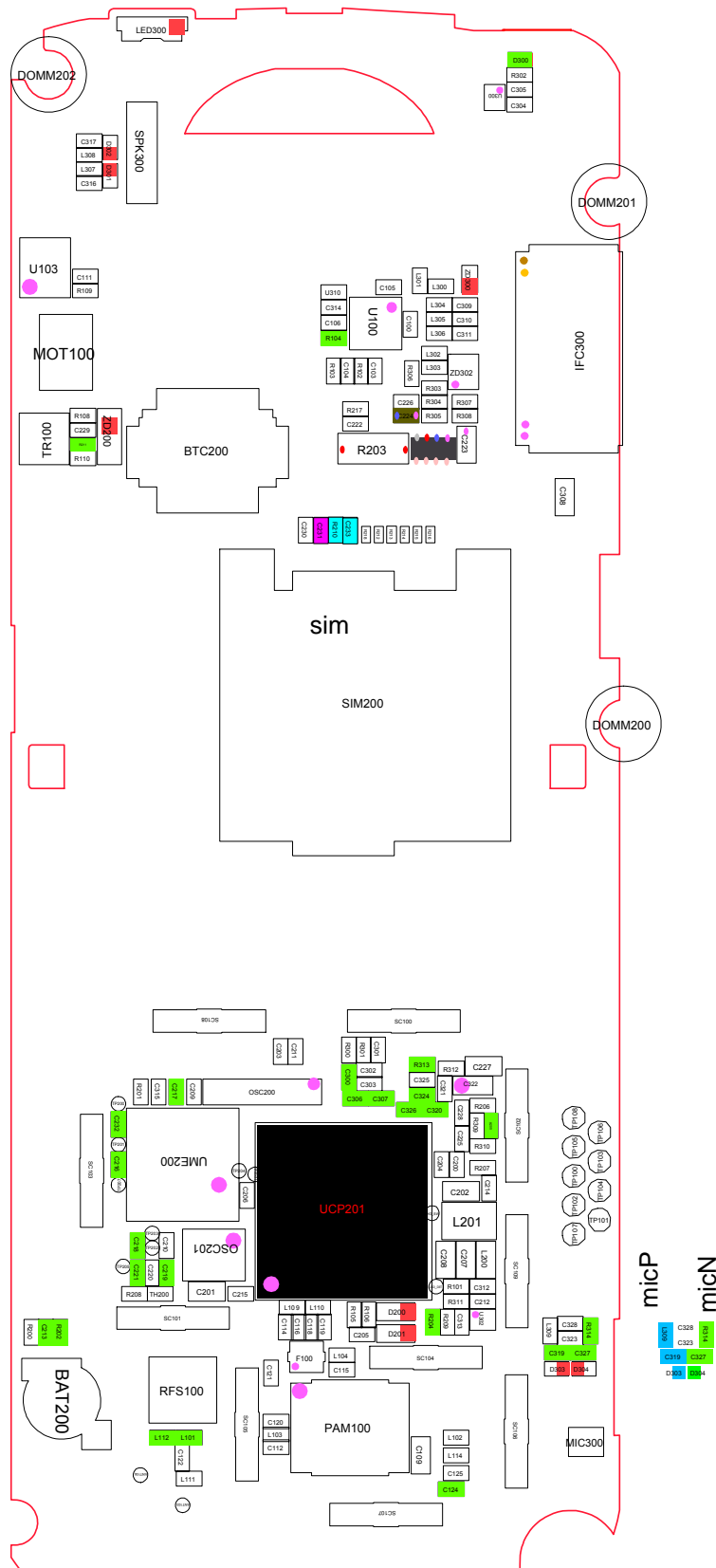
7-1. RF Solution Block Diagram

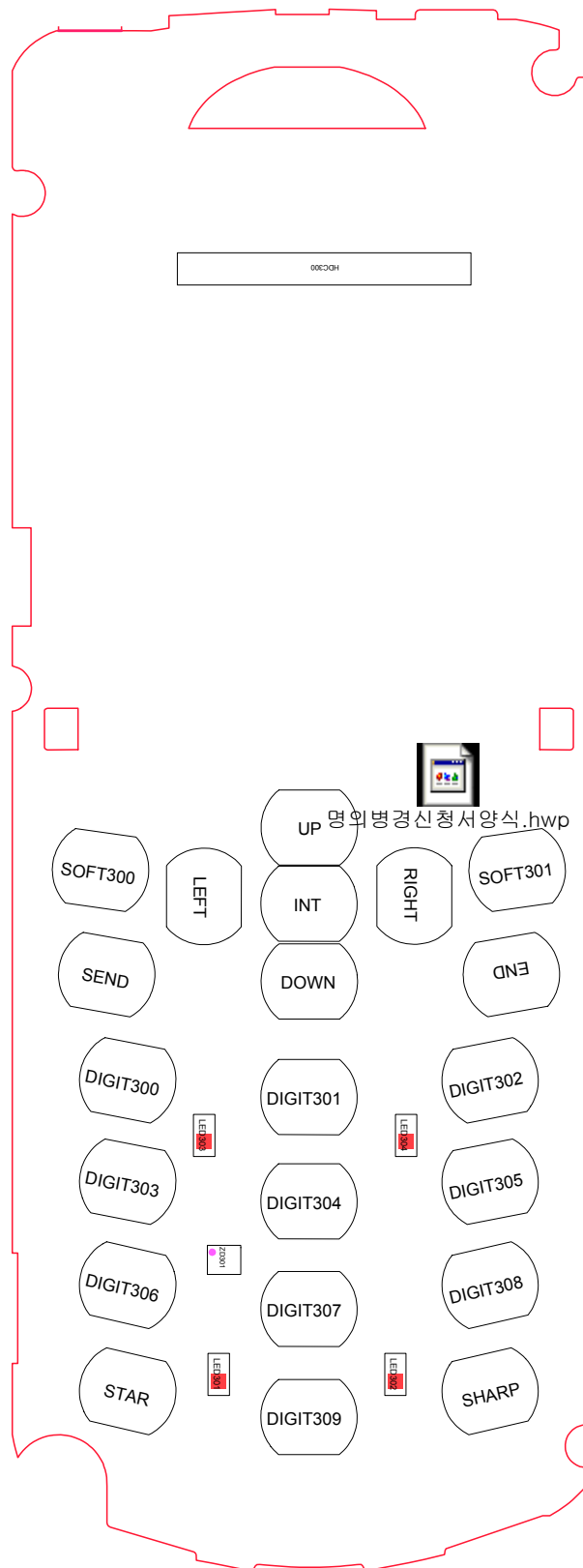


7-2. Base Band Solution Block Diagram



8. PCB Diagrams



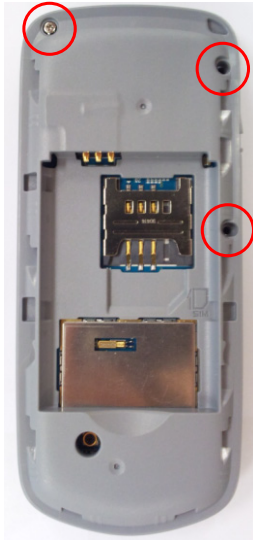


11. Disassembly and Assembly Instructions

11-1. Disassembly

1

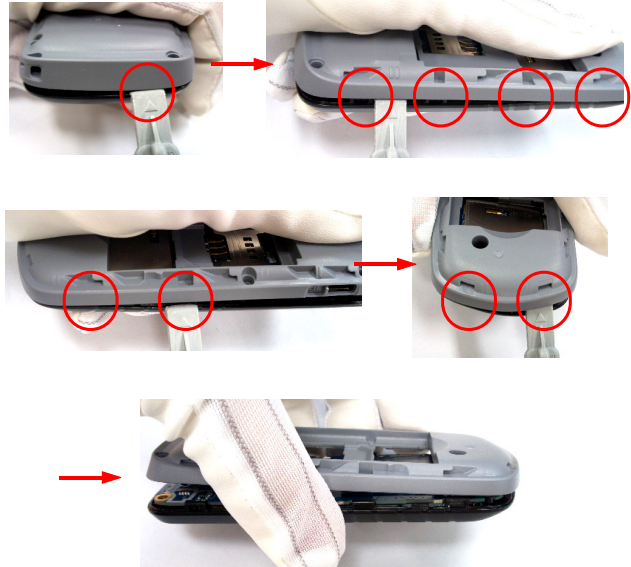
Unscrew 3 points at the REAR case



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

2

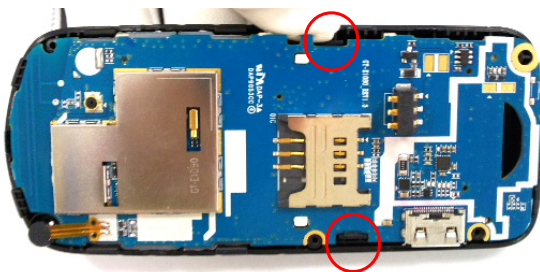
Disassemble the REAR as below sequence



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

3

Disassemble the PBA. Be careful with hooks.



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

4

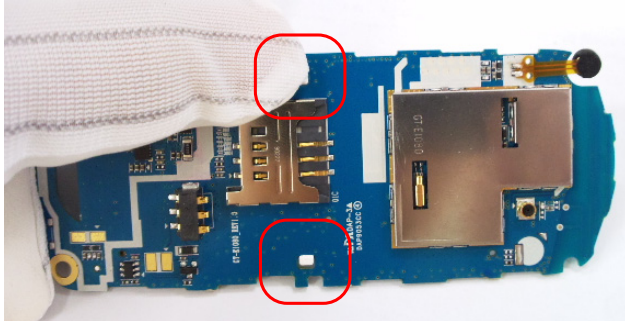
Separate the PBA from the FRONT



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

5

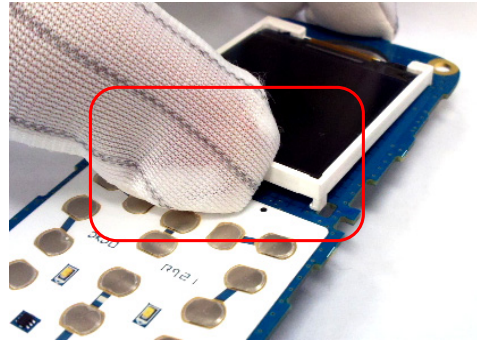
Push the hooks of both side of LCD



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

6

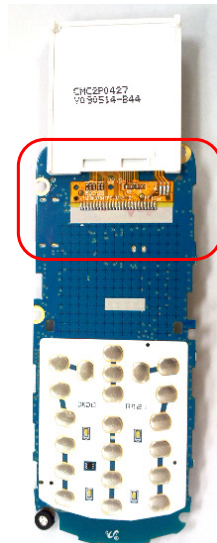
Lift up bottom side of the LCD carefully.



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

7

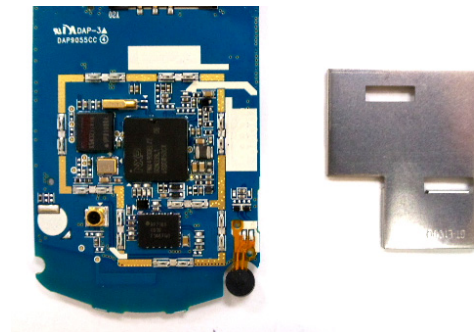
Disassemble the LCD.



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

8

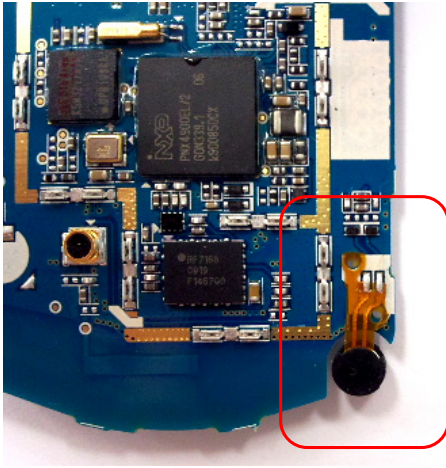
Disassemble the SHIELD CAN



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

9

Disassemble the MIC



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

10

Separate the KEYPAD from the FRONT

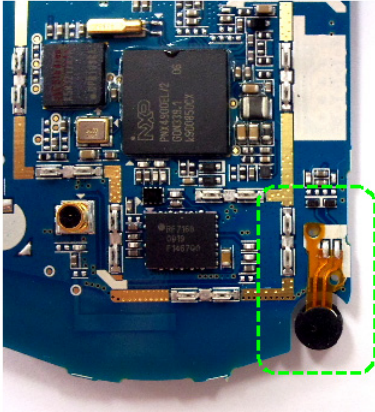


- 1) Be careful not to make scratch and molding damage!

11-2. Assembly

1

Soldering 2 points of MIC FPCB pad with PBA

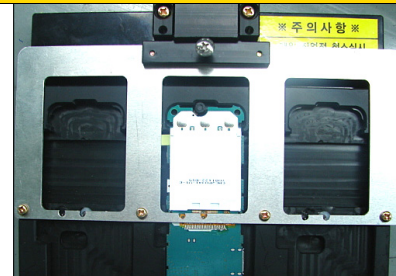


2

Soldering FPCB of the LCD MODULE

CAUTION

Check F-PCB to MAIN PCB soldering tightly.
(If there is a gap between F-PCB and Main board will makes faulty)



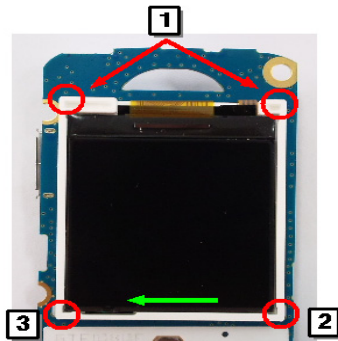
Be careful not to make Flux on the Main Board
Board
(Use the cover of Soldering Jig)

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

1) Be careful not to make scratch and molding damage!
2) Be careful not to make a gap between LCD FPCB and Main Board.
3) Height of solder should not over 0.2mm.

3

Combine LCD to Main Board.



Push LCD to left and make left hook takes it's position.

CHECK POINT

1. Order of LCD combining
 - ① Set LCD rib to it's hole
 - ② Push and lock the hook which is at right-bottom side of LCD
 - ③ Push and lock the hook which is at left-bottom side of LCD

1) Be careful not to make scratch and molding damage!
2) Don't push the panel of LCD while combine the LCD

4

Assemble the SHIELD CAN



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

5

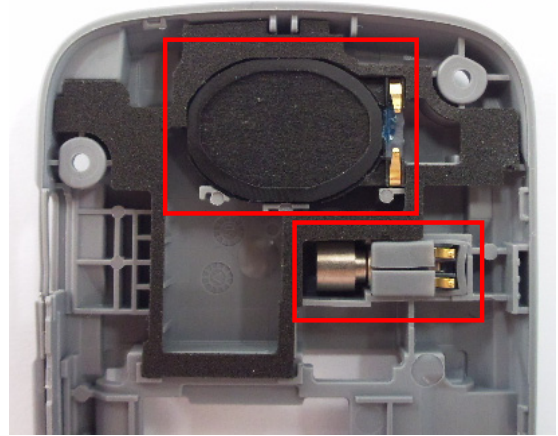
INSERT KEYPAD to FRONT.



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

6

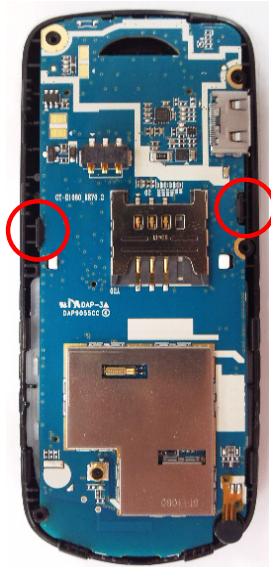
INSERT SPEAKER, MOTOR to REAR.



1) Be careful not to make scratch and molding damage!
 2) When insert MOTOR, use PUSHING JIG.
 3) CHECK SPEAKER, MOTOR insert tightly.

7

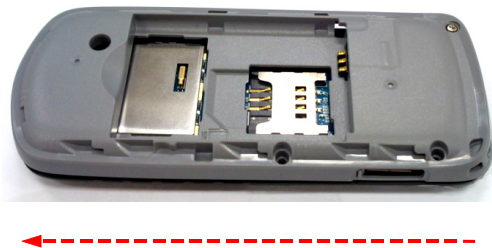
INSERT PBA TO FRONT.



1) Be careful not to make scratch and molding damage!
 2) Be careful nothing goes between LCD and FRONT.

8

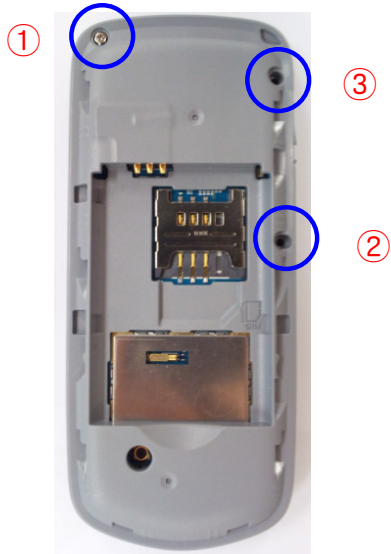
COMBINE REAR FROM TOP TO BOTTOM.



1) Be careful not to make scratch and molding damage!
 2) Be careful not to damage IF COVER.

9

Screw 3 points at the REAR case.



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

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