GSM TELEPHONE

SGH-i200

SERVICE Manual

UMTS TELEPHONE

Samsung
6:21 AM
meeting
12:00 PM
Getting Started
2/8
E-mail
Set up e-mail
Profile: Outdoor
Start
View All
SAMSUNG

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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
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2008. 05 Rev.1.0

2. Specification

2-1. GSM & WCDMA General Specification

	GSM900 Phase 1	EGSM 900 Phase 2	DCS1800 Phase 1	PCS1900	WCDMA2100
Freq. Band[MHz] Uplink/Downlink	890~915 935~960	880~915 925~960	1710~1785 1805~1880	1850~1910 1930~1990	1920~1980 2110~2170
ARFCN range	1~124	0~124 & 975~1023	512~885	512~810	9612~9888 10562~10838
Tx/Rx spacing	45 MHz	45 MHz	95 MHz	80 MHz	190MHz
Mod. Bit rate/ Bit Period	270.833 kbps 3.692 us	270.833 kbps 3.692 us	270.833 kbps 3.692 us	270.833 kbps 3.692 us	3.84 Mcps
Time Slot Period/Frame Period	576.9 us 4.615 ms	576.9 us 4.615 ms	576.9 us 4.615 ms	576.9 us 4.615 ms	-
Modulation	0.3 GMSK	0.3 GMSK	0.3 GMSK	0.3 GMSK	QPSK
MS Power	33 dBm~13 dBm	33 dBm~5 dBm	30 dBm~0 dBm	30 dBm~0 dBm	24 dBm ~
Power Class	5 pcl ~ 15 pcl	5 pcl ~ 19 pcl	0 pcl ~ 15 pcl	0 pcl ~ 15 pcl	3 Class
Sensitivity	-102 dBm	-102 dBm	-100 dBm	-100 dBm	-106.7 dBm
TDMA Mux	8	8	8	8	-
Cell Radius	35 Km	35 Km	2 Km	-	-

2-2. GSM TX power class

TX Power control level	GSM900
5	33±2 dBm
6	31±2 dBm
7	29±2 dBm
8	27±2 dBm
9	25±2 dBm
10	23±2 dBm
11	21±2 dBm
12	19±2 dBm
13	17±2 dBm
14	15±2 dBm
15	13±2 dBm
16	11±3 dBm
17	9± 3dBm
18	7±3 dBm
19	5±3 dBm

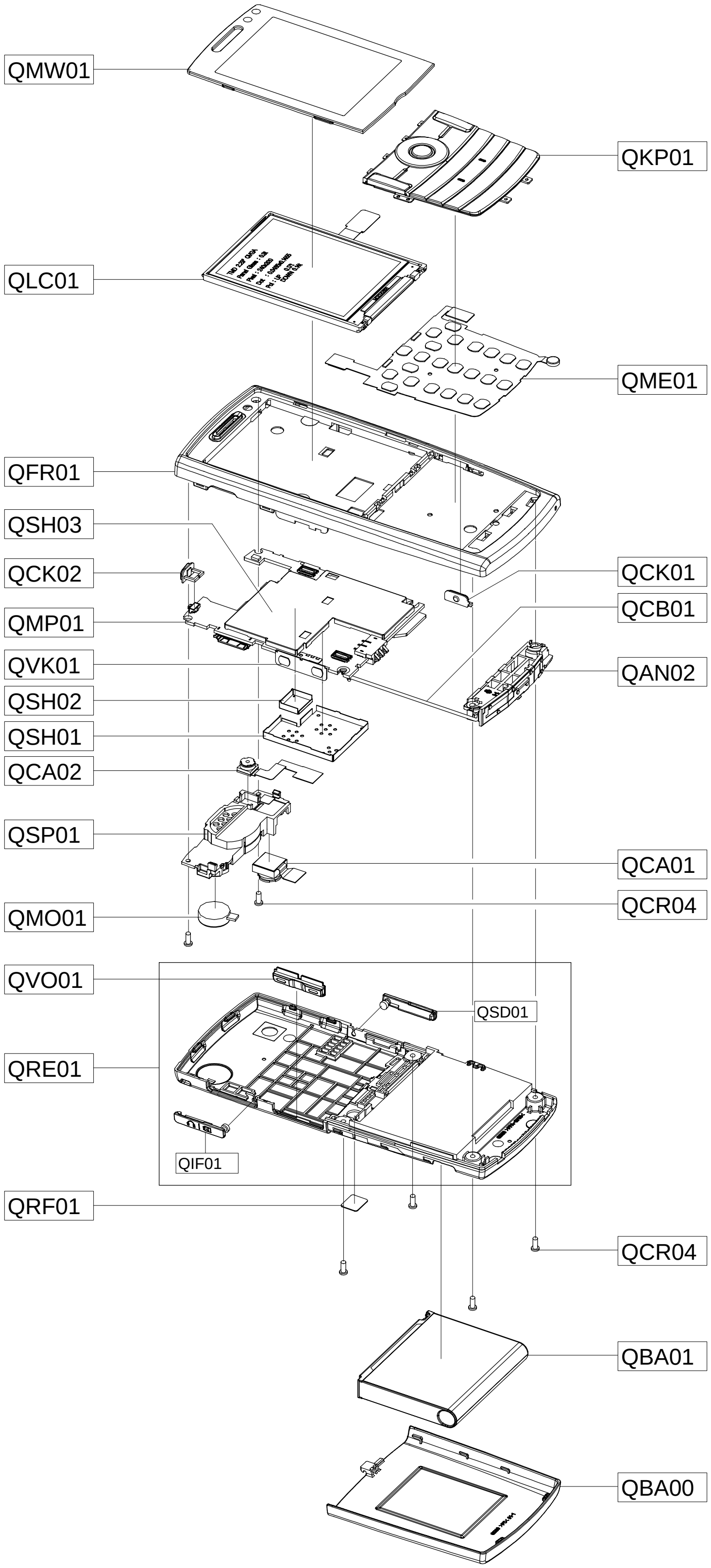
TX Power control level	DCS1800
0	30±3 dBm
1	28±3 dBm
2	26±3 dBm
3	24±3 dBm
4	22±3 dBm
5	20±3 dBm
6	18±3 dBm
7	16±3 dBm
8	14±3 dBm
9	12±4 dBm
10	10±4 dBm
11	8±4 dBm
12	6±4 dBm
13	4±4 dBm
14	2±5 dBm
15	0±5 dBm

TX Power control level	PCS1900
0	30±3 dBm
1	28±3 dBm
2	26±3 dBm
3	24±3 dBm
4	22±3 dBm
5	20±3 dBm
6	18±3 dBm
7	16±3 dBm
8	14±3 dBm
9	12±4 dBm
10	10±4 dBm
11	8±4 dBm
12	6±4 dBm
13	4±4 dBm
14	2±5 dBm
15	0±5 dBm

WCDMA2100 Power Class 3		
Power	dBm	Tol
Max	+24	+1/-3
Min	-50	under

5. Exploded View and Parts List

5-1. Cellular phone Exploded View

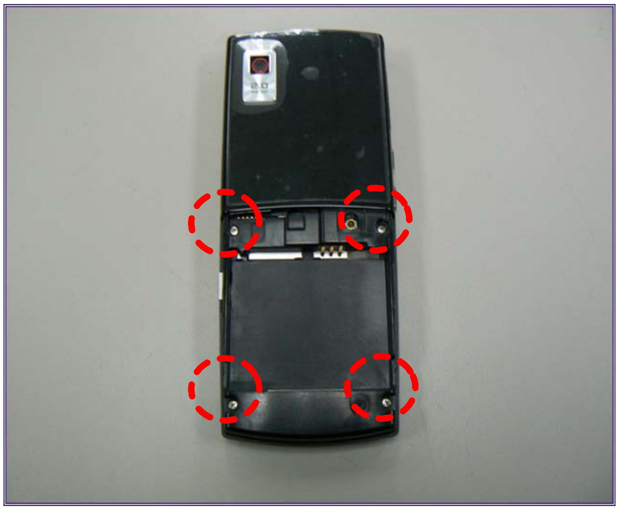
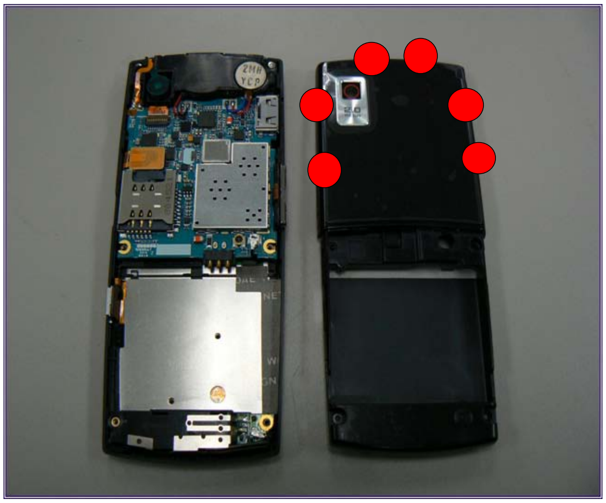
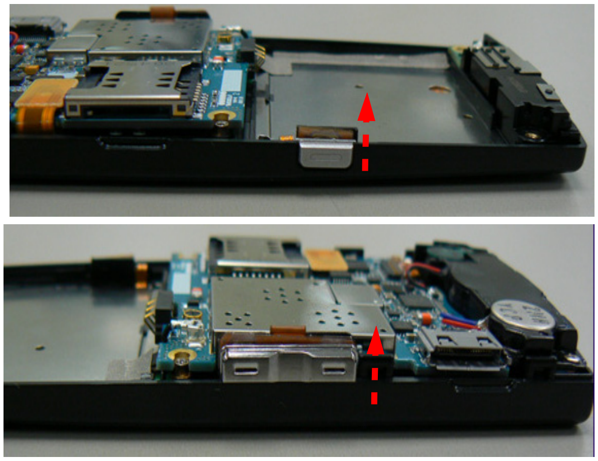
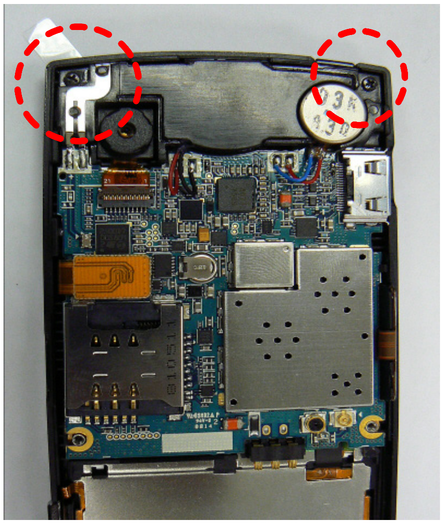

QMW01
QKP01
QLC01
QME01
QFR01
QSH03
QCK02
QCK01
QCB01
QMP01
QVK01
QAN02
QSH02
QSH01
QCA02
QSP01
QCA01
QCR04
QMO01
QVO01
QSD01
QRE01
QIF01
QRF01
QCR04
QBA01
QBA00

5-2. Cellular phone Parts list

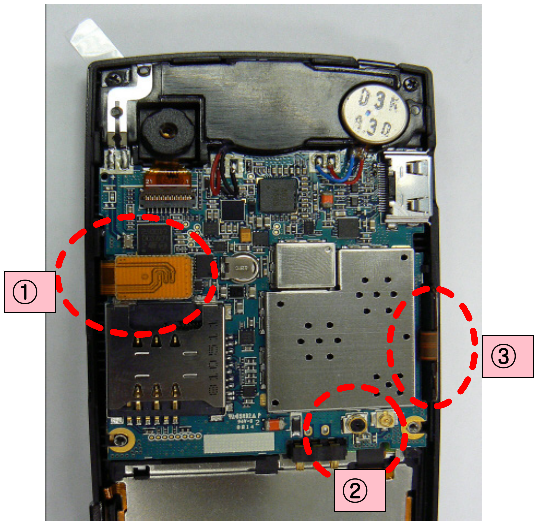
Design LOC		Discription	SEC CODE
QAN02		INTENNA-SGH_I200	GH42-01529A
QBA00		PMO COVER-BATT	GH72-47069A
QBA01		INNER BATTERY PACK-1100MAH,BLK	GH43-02664A
QCA01		CAMERA MODULE-SGH_I200 (2M)	GH59-05552A
QCA02		CAMERA MODULE-SGH_I200 (CIF)	GH59-05553A
QCB01		COAXIAL CABLE-SGH-I200	GH39-01060A
QCK01		PMO KEY-CAMERA	GH72-47077A
QCK02		PMO KEY-POWER	GH72-47076A
QCR04		SCREW-MACHINE	6001-001479
QFR01		ASSY CASE-FRONT	GH98-07960A
QKP01		ASSY KEYPAD-(XEF/EKA)	GH98-07961A
QLC01		ELA UNIT-SGHI200 LCD MODULE	GH96-03010A
QME01		KEY FPCB-SGHI540 KEY PAD FPCB	GH59-05541A
QMO01		MOTOR DC	GH31-00088A
QMP01		PBA MAIN-SGHI200	GH92-01442A
QMW01		ASSY CASE-WINDOW MAIN_ORANGE	GH98-09271A
QRF01		TAPE-RF SHEET	GH74-37976A
QSH01		IPR SHIELD-CAN TOP B	GH70-03380A
QSH02		IPR SHIELD-CAN TOP A	GH70-03381A
QSH03		IPR SHIELD-CAN BOTTOM	GH70-03382A
QSP01		ASSY ETC-SPK MODULE	GH59-05901A
QVK01		KEY FPCB-VOLUME KEY	GH59-05542A
QVO01		PMO KEY-VOLUME	GH72-47075A
QRE01		ASSY CASE-REAR	GH98-07959A
	QIF01	PMO COVER-IF	GH72-47071A
	QSD01	PMO COVER-SD	GH72-47070A

7. Disassembly and Assembly Instructions

7-1. Disassembly

1 	2 
1) Unscrew the 4 point REAR Screws.	1) Dissolve the READ LOCKER. (6 red points: hook point) ※ **Caution** 1) Be careful not to scratch the appearance or damage the framework.
3 	4 
1) Remove the CAMERA, VOLUME KEY.	1) Unscrew the 2 point Speaker bracket screw.

5

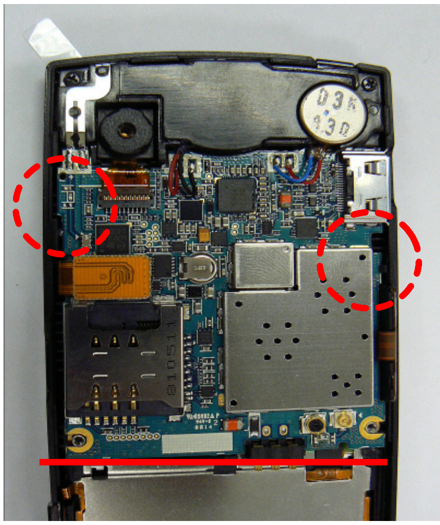


1) Disconnect LCD connector(①) and RF connector(②).
2) Detach the VOLUME KEY FPCB(③).

※ Caution

1) Take precaution not to tear the FPCB.

6

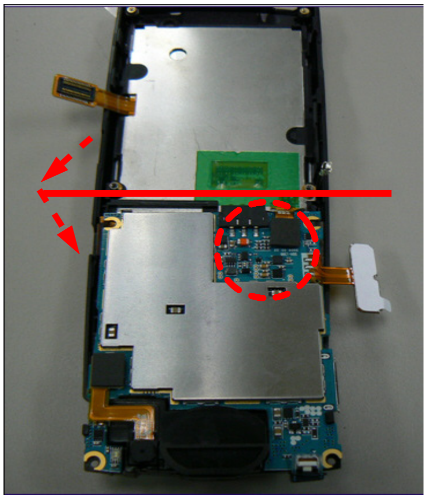


1) Unhook right and left lockers..

※ Caution

1) Do not lift the PBA up to remove after unhooking.

7

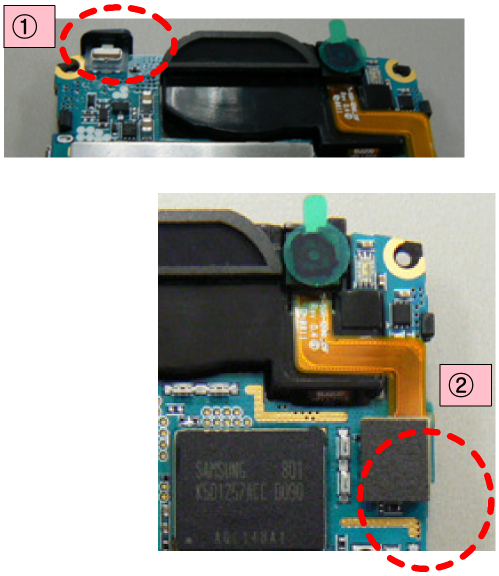


1) Turn the PBA along the red line.
2) Disconnect the KEY PBA connector.

※ Caution

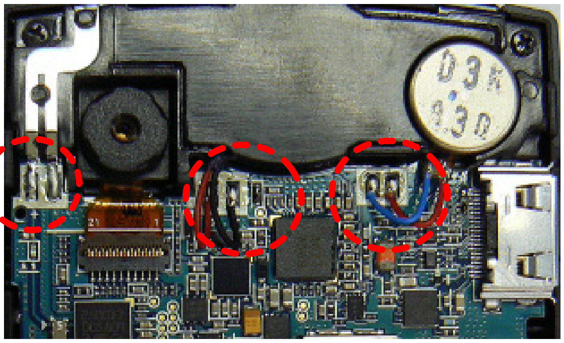
1) Do not take the PBA apart before disconnecting the

8



1) Dissolve the POWER KEY(①).
2) Disconnect the CIF CAMERA connector(②)..

9

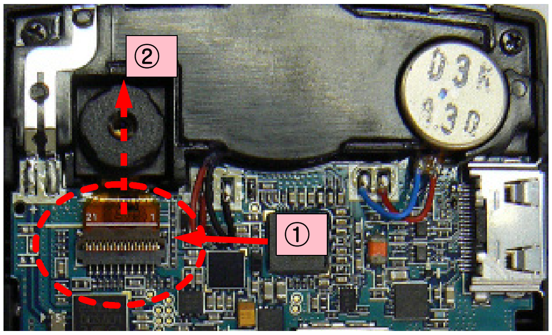


1) Remove the BT ANT, Speaker and Motor solder.

※ **Caution**

1) Be careful not to damage the Speaker bracket..

10

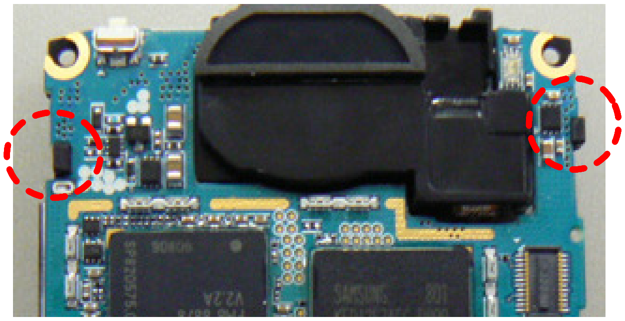


1) Flip the Camera connector locker.
2) Dissolve the Mega Camera FPCB.

※ **Caution**

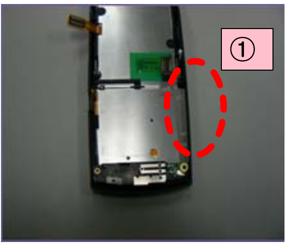
1) Be careful not to break the locker.

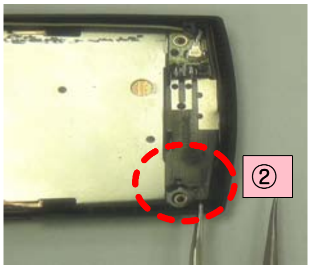
11



1) Unhook the Speaker bracket from the PBA and dissolve it.

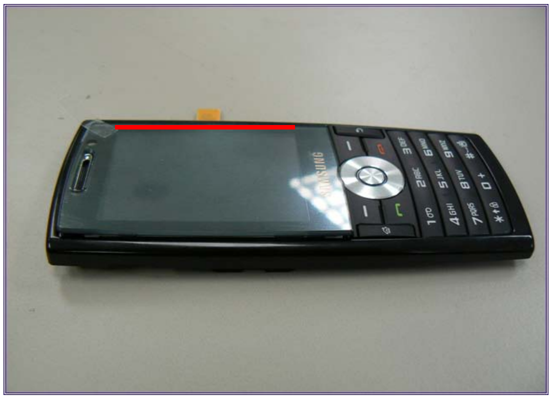
12





1) Remove the conduction tape.
2) Take the antenna apart from FRONT..

13

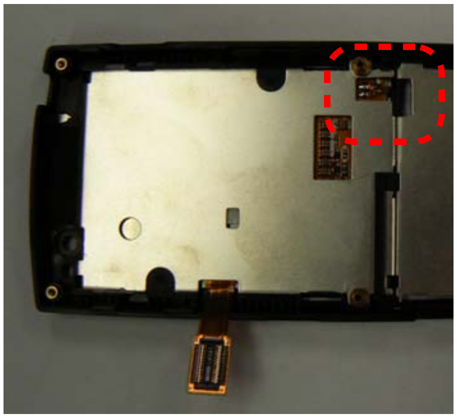


1) Remove the window

※ **Caution**

1) Take the window apart right side first with sharp tweezers.

14



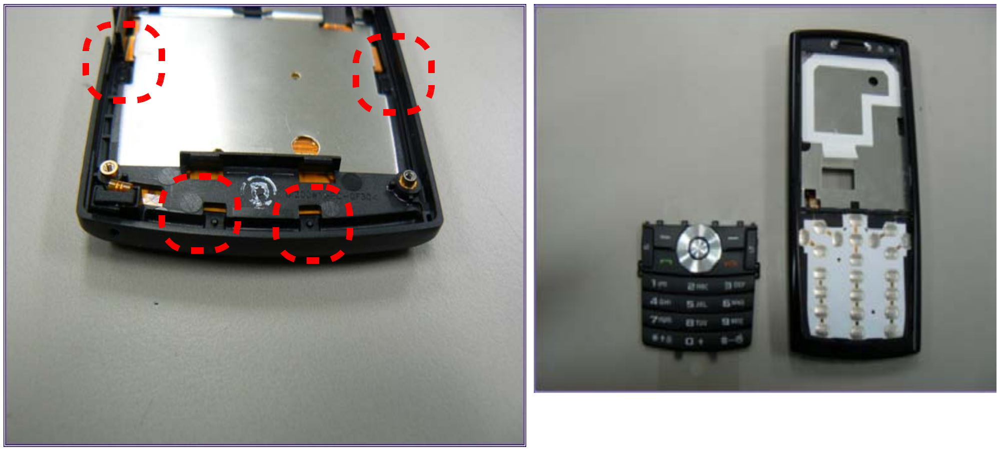
1) Take the LCD apart from FRONT.

※ **Caution**

1) Push with hard stick and make a gap between LCD and Front, then take the LCD aprart.

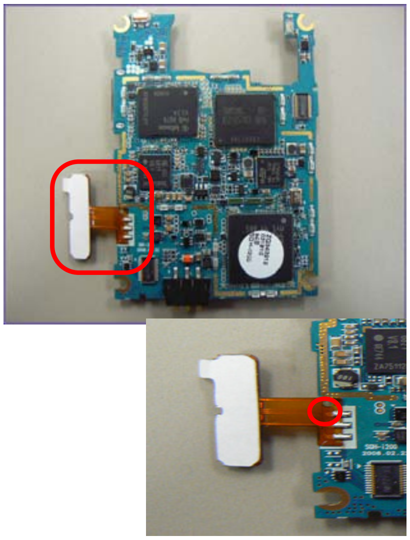
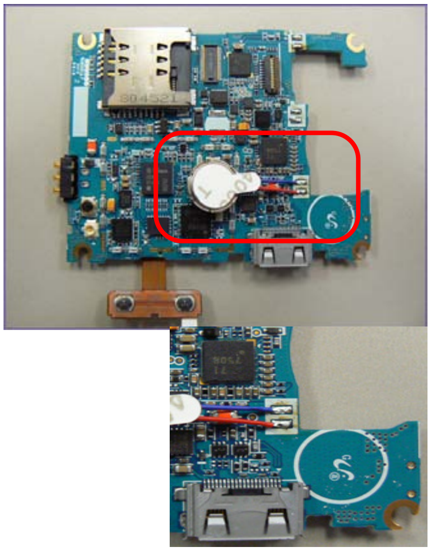
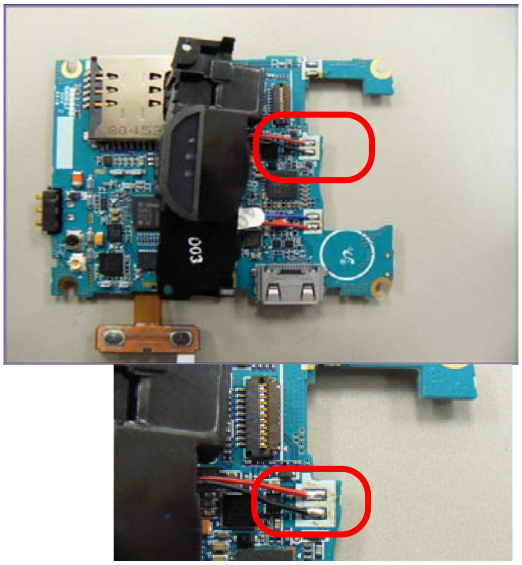
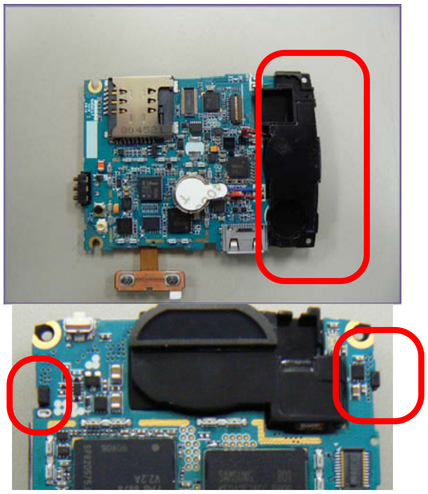
2) Be careful not to damage the LCD connector.

15

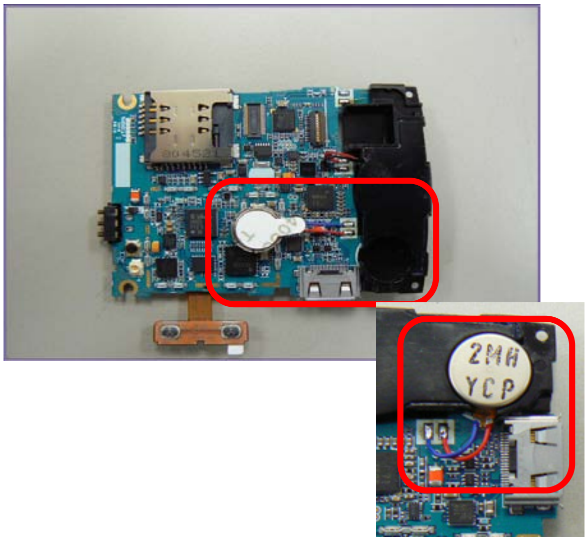


1) Remove the hanged rubber from the peg(4 points) and dissolve the Key pad.

7-2. Assembly

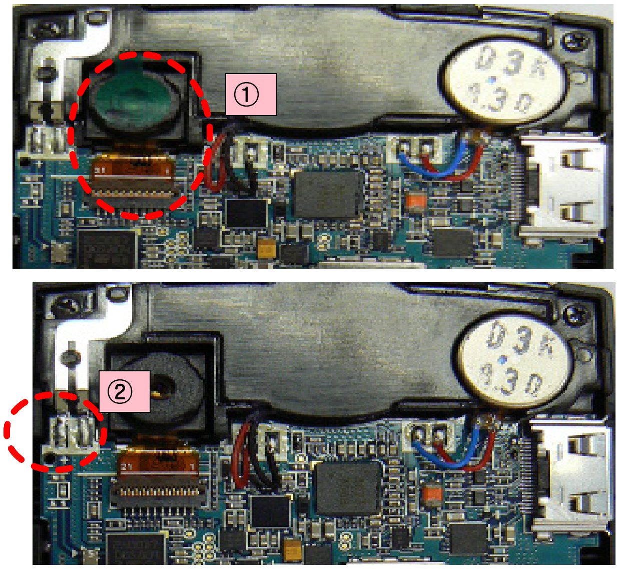
1 	2 
1) Solder the volume key FPCB on board, fitting the two guide hole of FPCB and Board.	1) Solder the motor on board..
3 	4 
1) Solder the Speaker line of the Speaker bracket	1) Flip the Speaker bracket and hook the both side lockers.

5



1) Take off the protection tape on motor and place the motor.

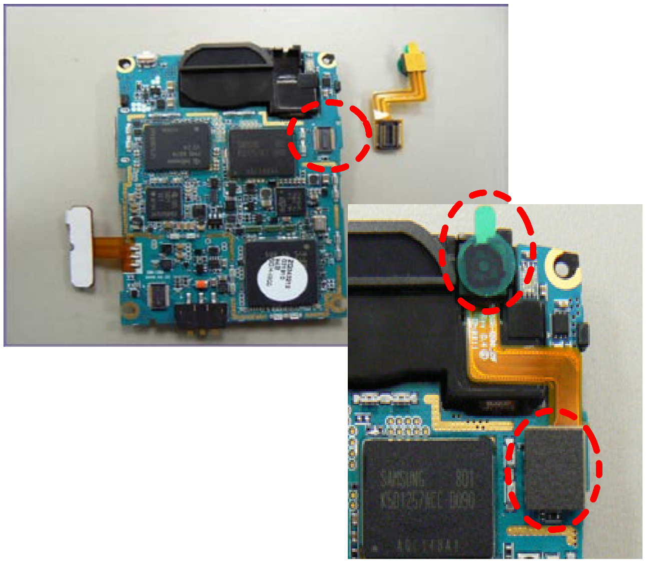
6



1) Place the Mega camera and insert FPCB Lock the connector and take off the protection tape.

2) Solder the BT ANT. .

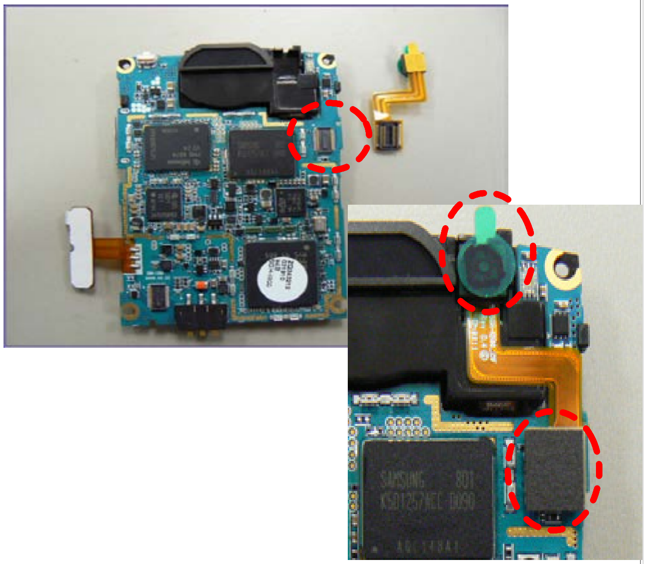
7



1) Connect the CIF camera and place it on the speaker bracket.

2) Take off the protection tape and attach the poron on the connector.

8

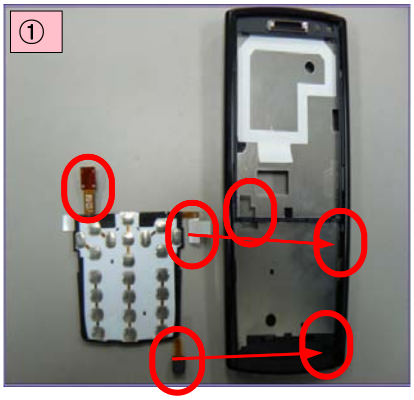


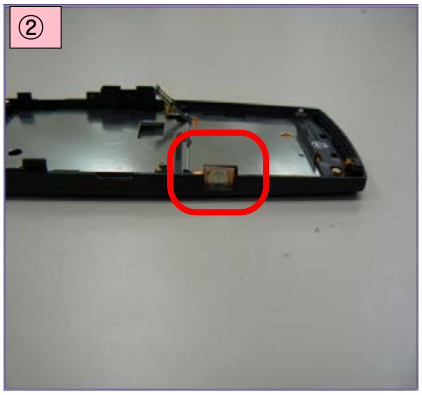
1) Put the F-PCB into the hole of main frame as the slide is down.

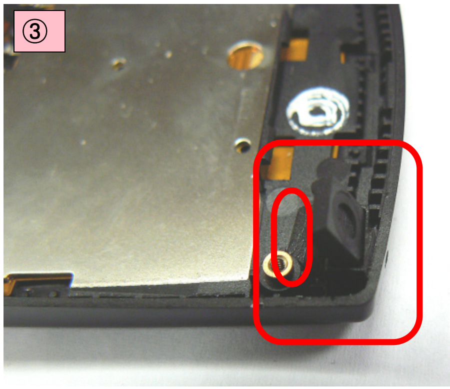
※ **Caution**

Take precaution not to damage the F-PCB.

9

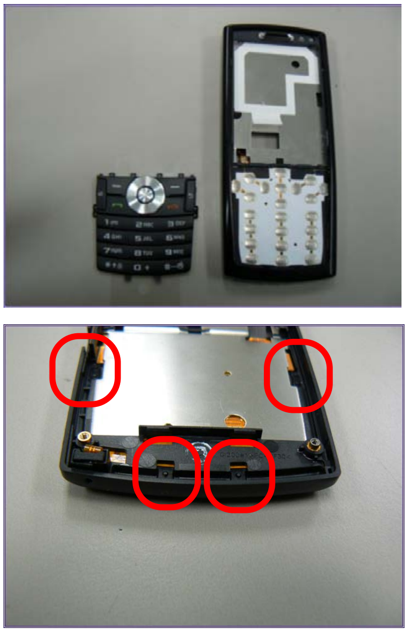






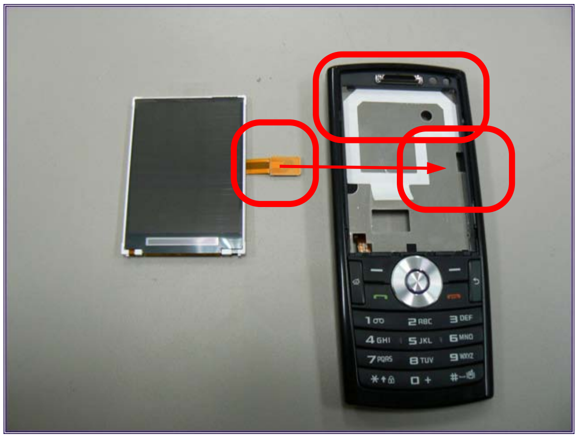
1) Place the Key PBA on the Front. Make sure the connector, mic, camera key FPCB insertion to the each hole, then attach the Key PBA on the Front.
2) Take off the protection tape on the Camera key FPCB and place it on Front.
3) Insert the mic in the mic holder and attach the mic FPCB protection poron.

10



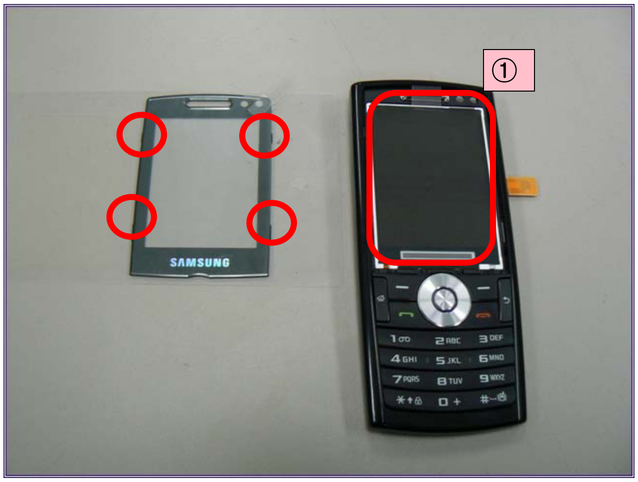
1) Check the earjack cover.

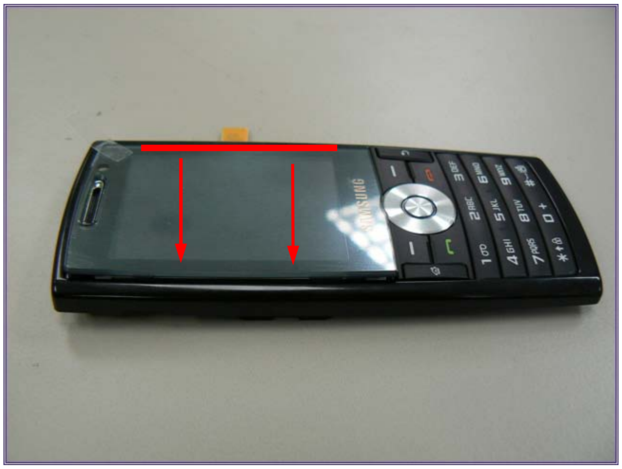
11



1) Press until Connector is sonant "Click"
2) When joint LCD CONNECTOR, be careful approximately parts damage.

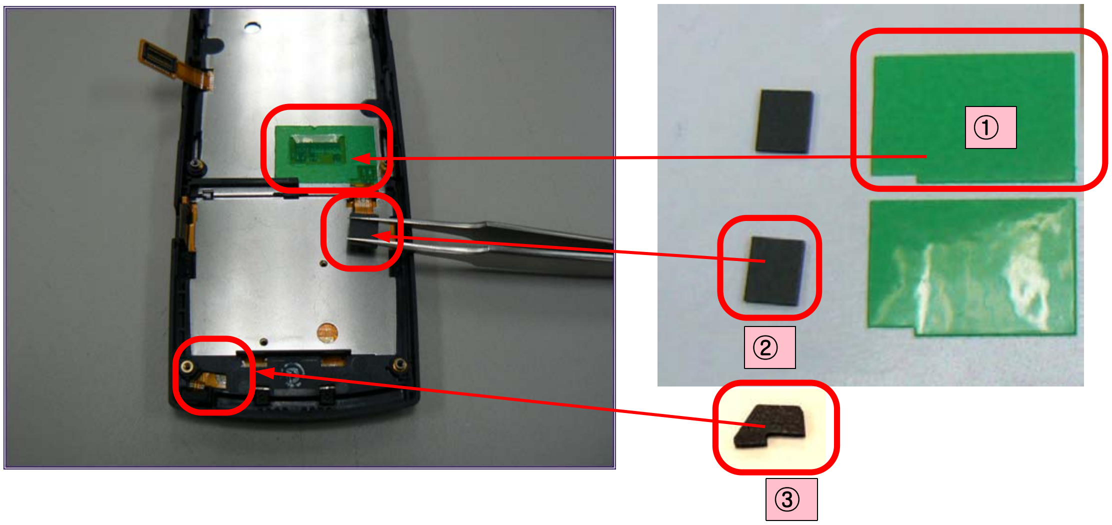
12





1) Take off the tape around the LCD.
2) Place the window.
(Insert right side hook first and do left side.)
1) Attach the tape exactly based on the silk line.

13

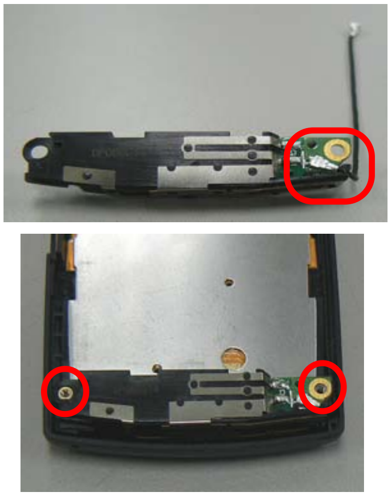


1) Attach the insulation tape on Front

2) Attach the poronon the Key PBA connector.

3) Cover the mic FPCB with the poron.

14

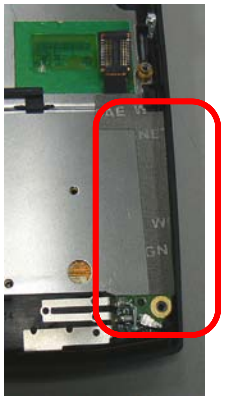


1) Connect the antenna cable with antenna.
2) Fiting two guide boss hole, push right part then left part.

※ Caution

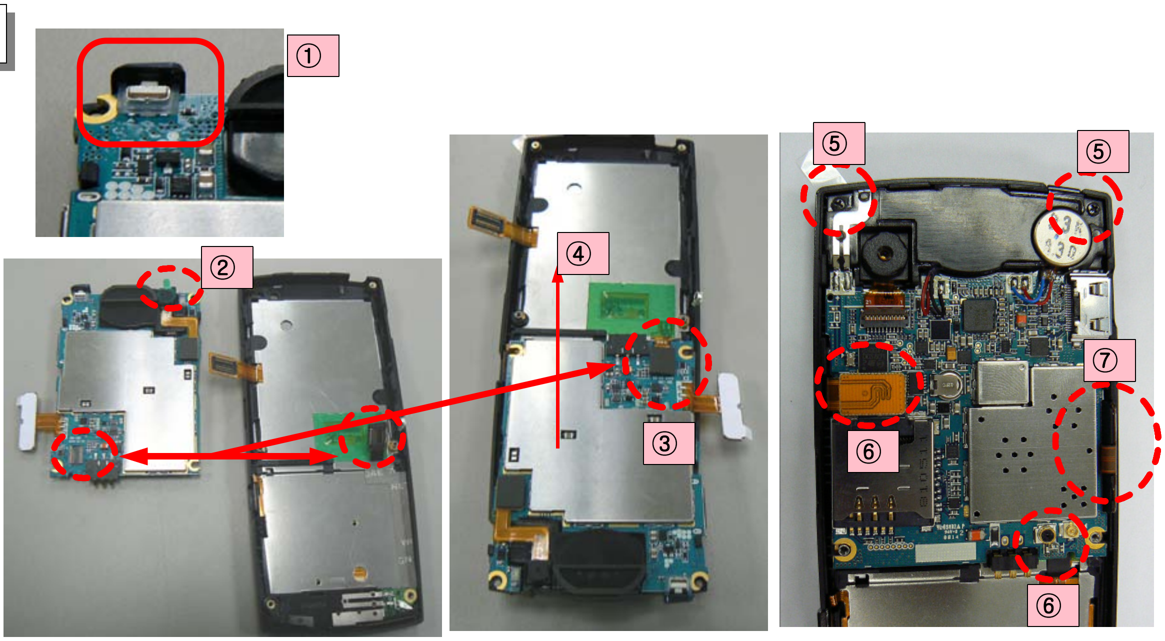
1) The smaller connector side of antenna cable goes to antenna.

15



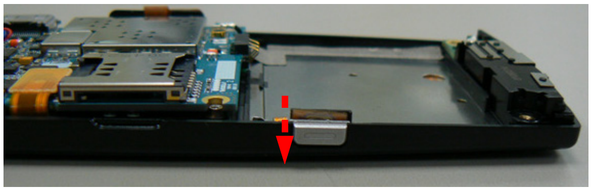
1) Put the antenna cable into guide path and cover the guide path with conduction tape.

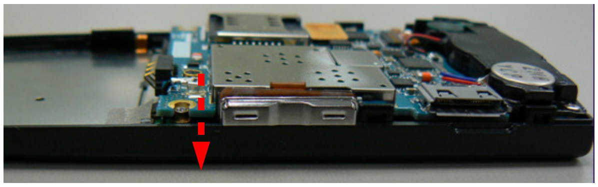
16



1) Place the Power key on board.
2) Take off the protection tape of Mega and CIF camera.
3) Connect the Key PBA connector.
4) Flip the board and hook the locker.
5) Screw the PBA screws.
6) Connect the LCD connector and and antenna cable.
7) Attach the volume key FPCB

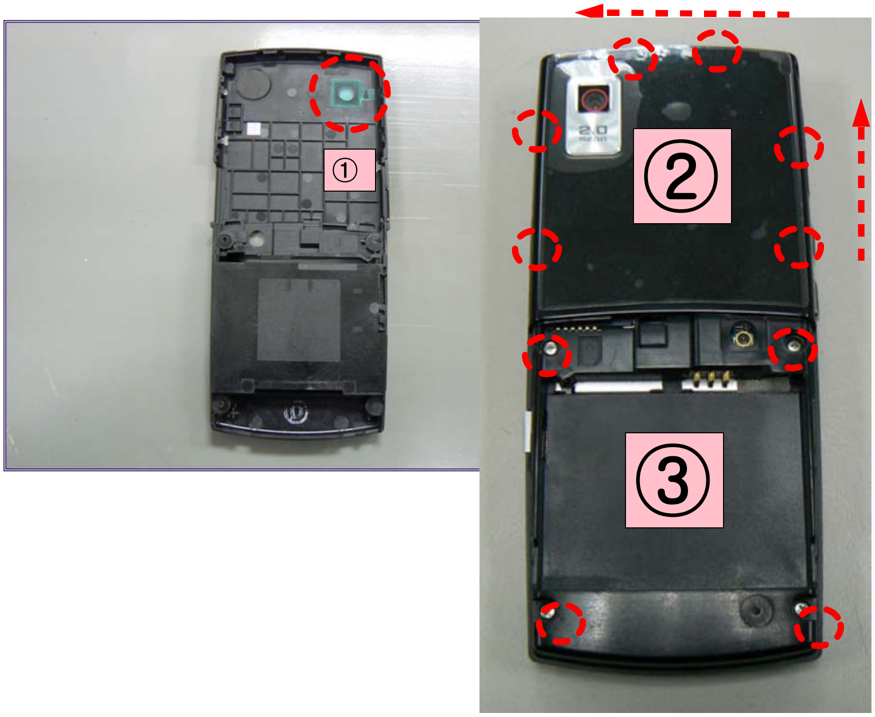
17





1) Place the volume key and camera key.

18

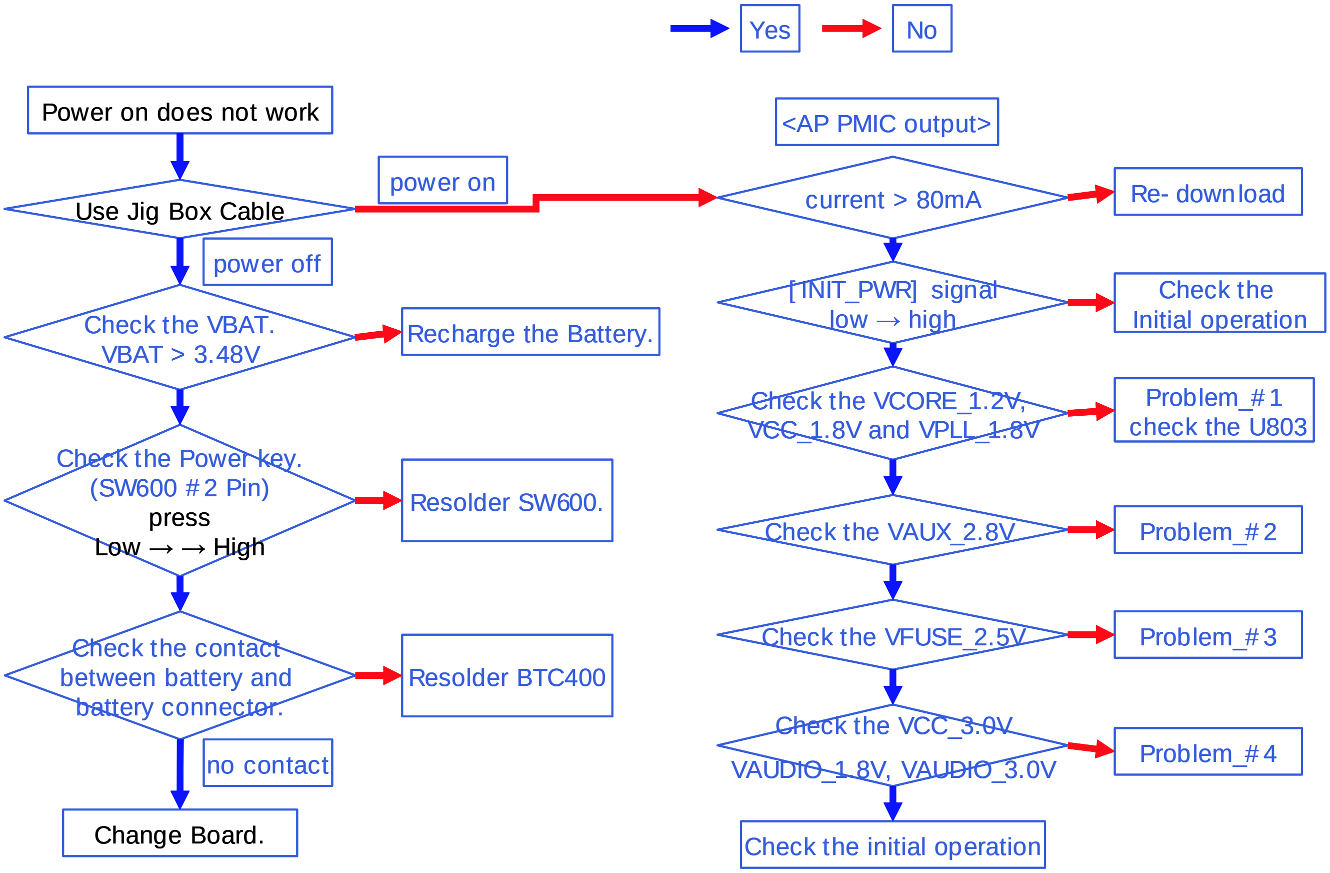


1) Take off the protection tape on REAR.
2) Assemble the Front with Rear and hook the 6 point locker in counter-clockwise.
3) Screw 4 point of the Rear.

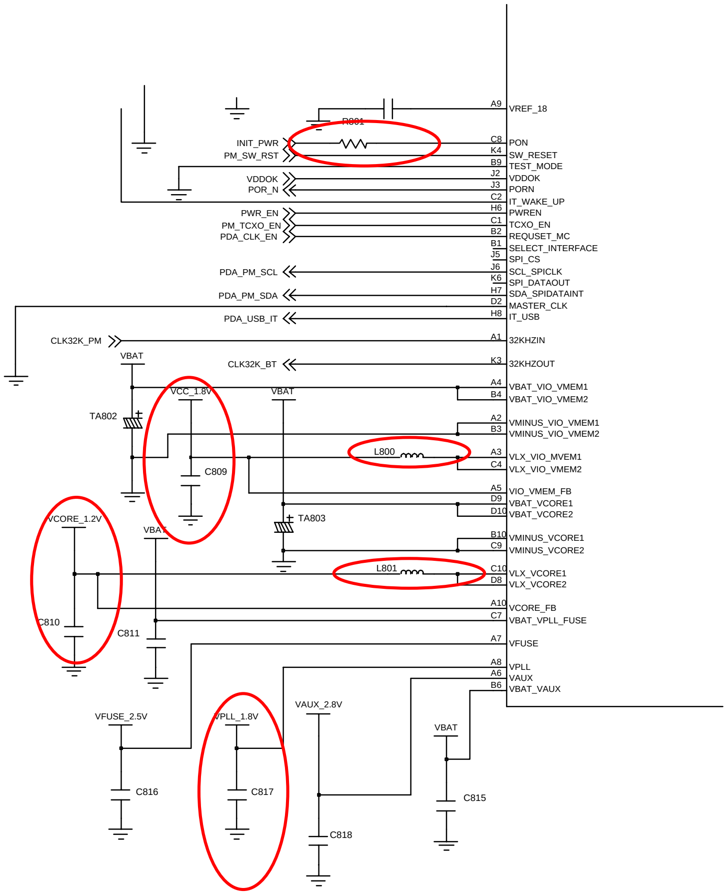
10. Chart of Troubleshooting

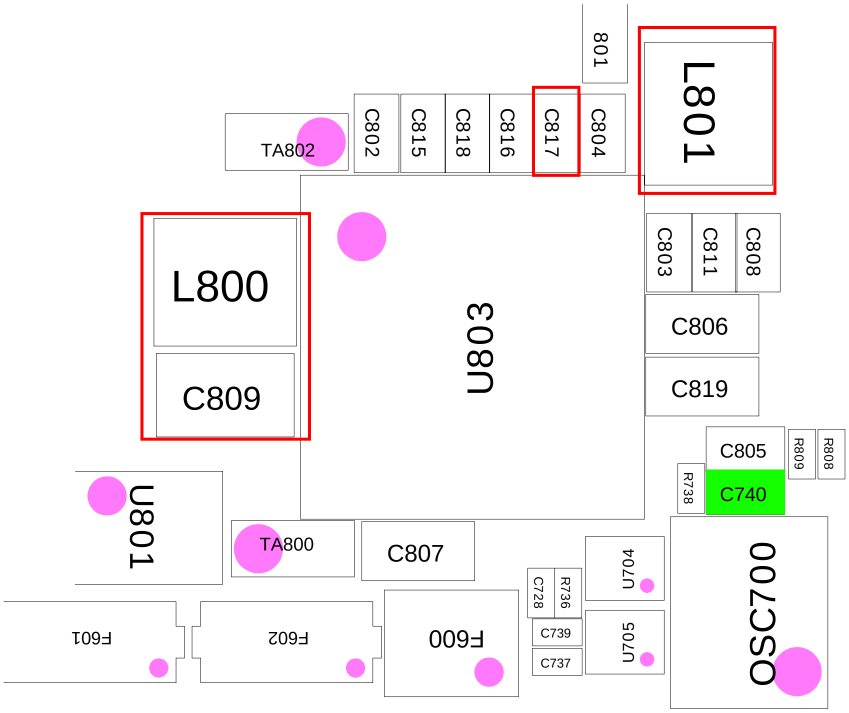
10-1.Baseband

10-1-1. Power ON

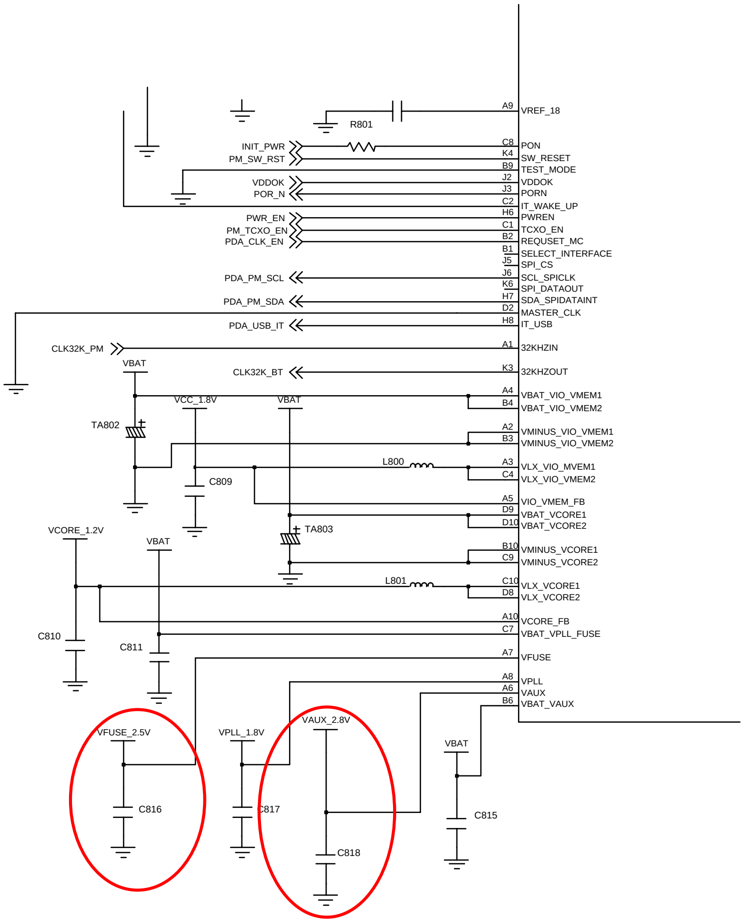

Yes
No
Power on does not work
Use Jig Box Cable
power on
power off
Check the VBAT.
VBAT > 3.48V
Recharge the Battery.
Check the Power key.
(SW600 #2 Pin)
press
Low → → High
Resolder SW600.
Check the contact
between battery and
battery connector.
Resolder BTC400
no contact
Change Board.
<AP PMIC output>
current > 80mA
Re- download
[INIT_PWR] signal
low → high
Check the
Initial operation
Check the VCORE_1.2V,
VCC_1.8V and VPLL_1.8V
Problem_#1
check the U803
Check the VAUX_2.8V
Problem_#2
Check the VFUSE_2.5V
Problem_#3
Check the VCC_3.0V
VAUDIO_1.8V, VAUDIO_3.0V
Problem_#4
Check the initial operation

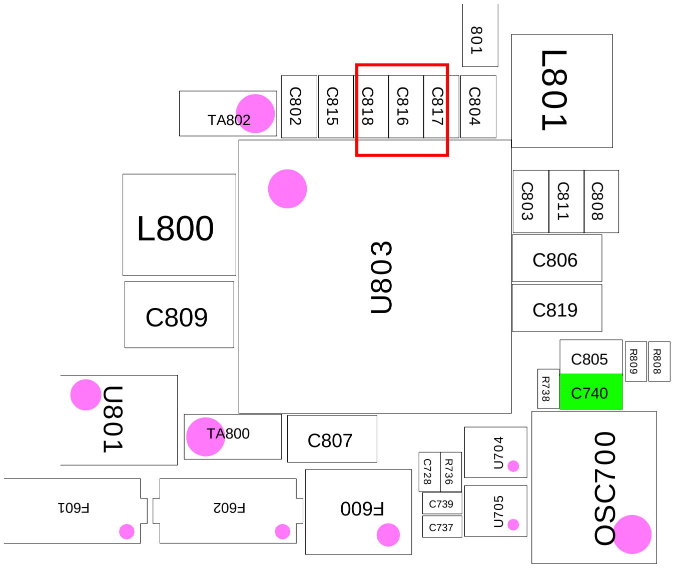
Problem #1


R801
A9
VREF_18
INIT_PWR
PM_SW_RST
C8
PON
K4
SW_RESET
B9
TEST_MODE
VDDOK
POR_N
J2
VDDOK
J3
PORN
C2
IT_WAKE_UP
PWR_EN
PM_TCXO_EN
PDA_CLK_EN
H6
PWREN
C1
TCXO_EN
B2
REQUSET_MC
B1
SELECT_INTERFACE
J5
SPI_CS
PDA_PM_SCL
J6
SCL_SPICLK
K6
SPI_DATAOUT
PDA_PM_SDA
H7
SDA_SPIDATAINT
D2
MASTER_CLK
PDA_USB_IT
H8
IT_USB
CLK32K_PM
A1
32KHZIN
VBAT
CLK32K_BT
K3
32KHZOUT
VCC_1.8V
VBAT
A4
VBAT_VIO_VMEM1
B4
VBAT_VIO_VMEM2
TA802
A2
VMINUS_VIO_VMEM1
B3
VMINUS_VIO_VMEM2
L800
A3
VLX_VIO_MVEM1
C4
VLX_VIO_VMEM2
C809
A5
VIO_VMEM_FB
D9
VBAT_VCORE1
D10
VBAT_VCORE2
VCORE_1.2V
VBAT
TA803
B10
VMINUS_VCORE1
C9
VMINUS_VCORE2
L801
C10
VLX_VCORE1
D8
VLX_VCORE2
A10
VCORE_FB
C7
VBAT_VPLL_FUSE
C810
C811
A7
VFUSE
A8
VPLL
A6
VAUX
B6
VBAT_VAUX
VFUSE_2.5V
VPLL_1.8V
VAUX_2.8V
VBAT
C816
C817
C815
C818

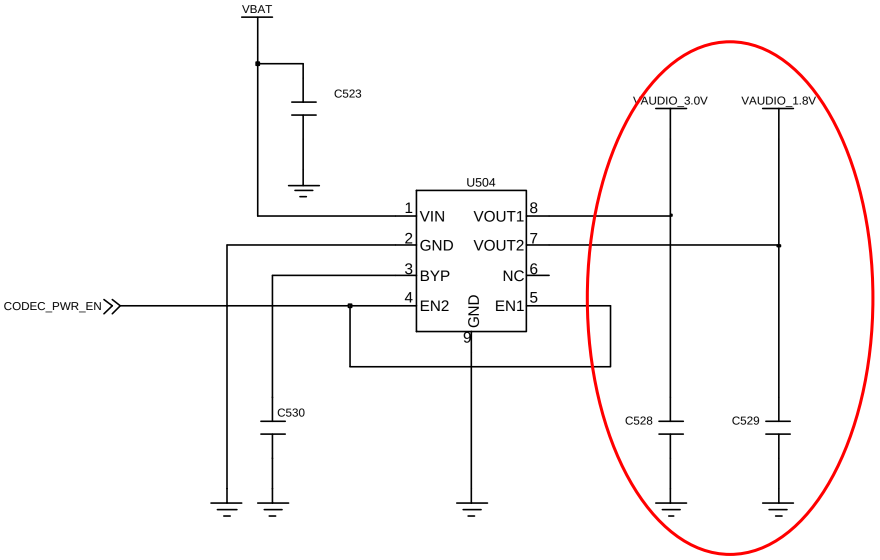

801
L801
TA802
C802
C815
C818
C816
C817
C804
C803
C811
C808
L800
C809
U803
C806
C819
C805
R809
R808
R738
C740
U801
TA800
C807
U704
C728
R736
F601
F602
F600
C739
C737
U705
OSC700

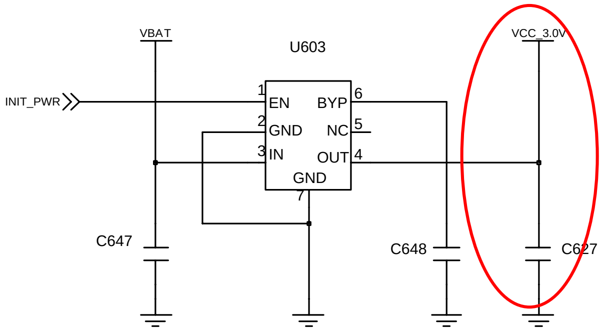
Problem #2, 3

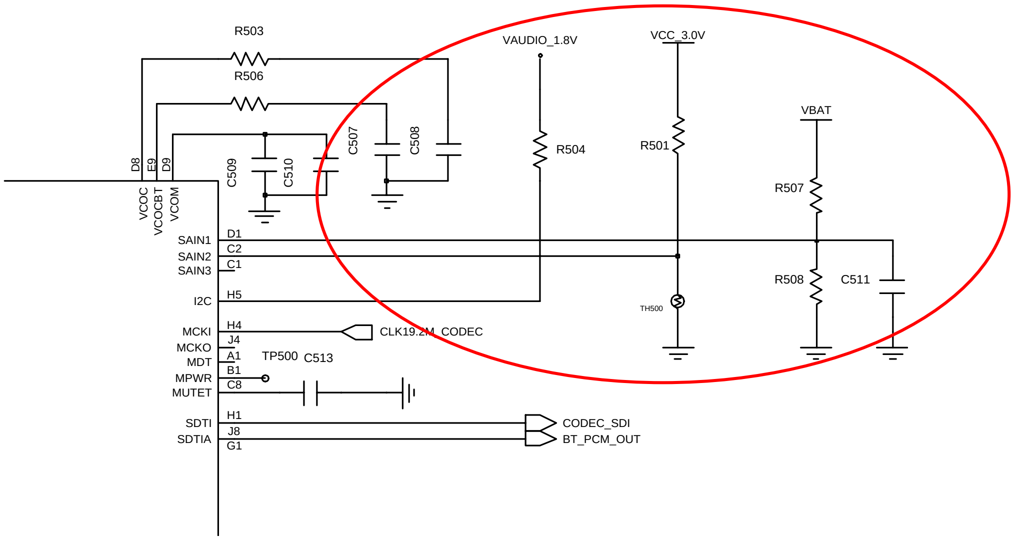

A9
VREF_18
R801
INIT_PWR
PM_SW_RST
C8
K4
B9
PON
SW_RESET
TEST_MODE
VDDOK
POR_N
J2
J3
C2
VDDOK
PORN
IT_WAKE_UP
PWR_EN
PM_TCXO_EN
PDA_CLK_EN
H6
C1
B2
B1
PWREN
TCXO_EN
REQUSET_MC
SELECT_INTERFACE
J5
J6
K6
H7
D2
H8
SPI_CS
SCL_SPICLK
SPI_DATAOUT
SDA_SPIDATAINT
MASTER_CLK
IT_USB
PDA_PM_SCL
PDA_PM_SDA
PDA_USB_IT
CLK32K_PM
A1
32KHZIN
VBAT
CLK32K_BT
K3
32KHZOUT
VCC_1.8V
VBAT
A4
B4
VBAT_VIO_VMEM1
VBAT_VIO_VMEM2
TA802
A2
B3
VMINUS_VIO_VMEM1
VMINUS_VIO_VMEM2
L800
A3
C4
VLX_VIO_MVEM1
VLX_VIO_VMEM2
C809
A5
D9
D10
VIO_VMEM_FB
VBAT_VCORE1
VBAT_VCORE2
VCORE_1.2V
TA803
VBAT
B10
C9
VMINUS_VCORE1
VMINUS_VCORE2
L801
C10
D8
VLX_VCORE1
VLX_VCORE2
A10
C7
VCORE_FB
VBAT_VPLL_FUSE
C810
C811
A7
VFUSE
A8
A6
B6
VPLL
VAUX
VBAT_VAUX
VFUSE_2.5V
VPLL_1.8V
VAUX_2.8V
VBAT
C816
C817
C818
C815

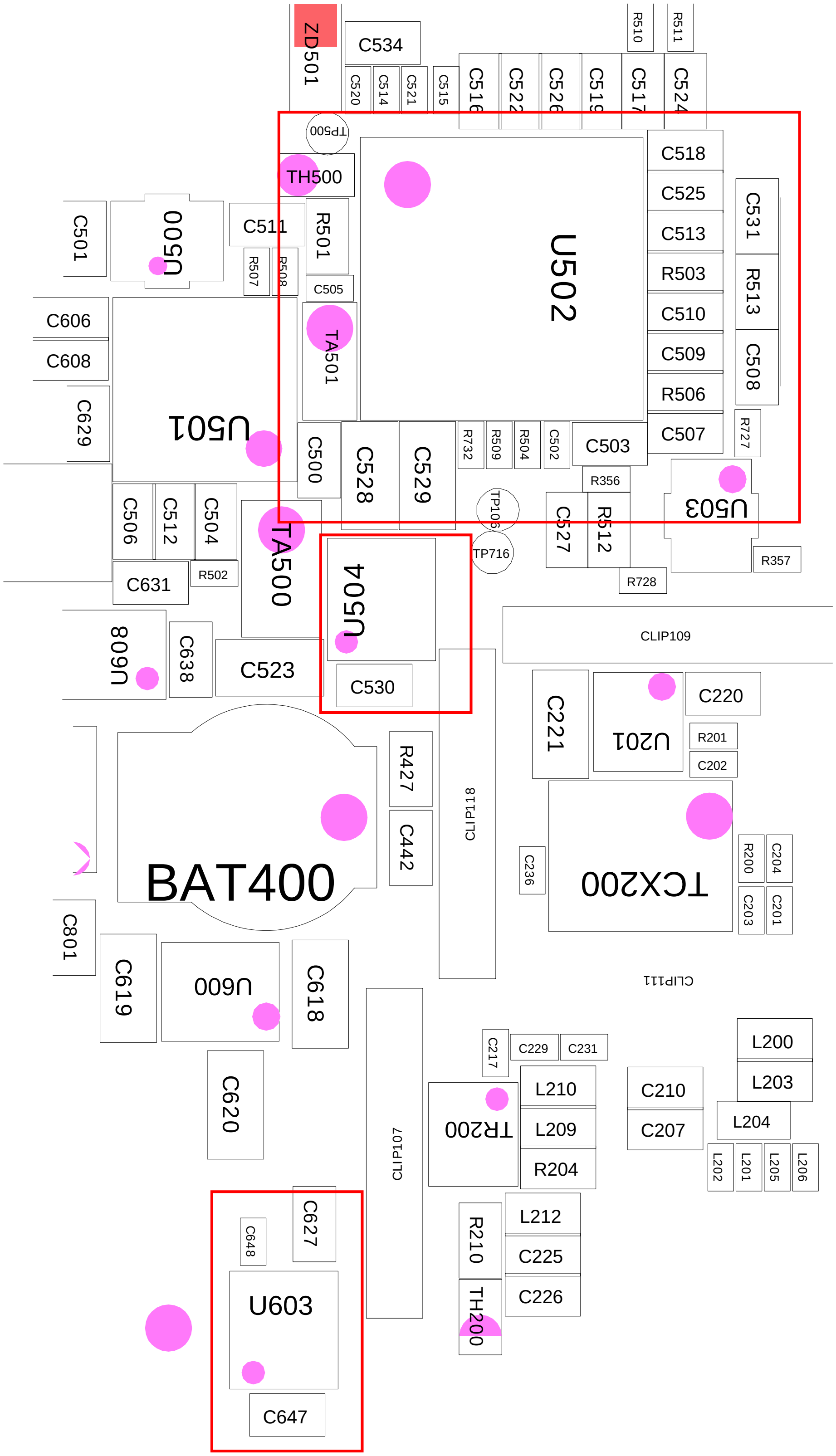

801
L801
TA802
C802
C815
C818
C816
C817
C804
C803
C811
C808
L800
U803
C806
C809
C819
C805
R809
R808
R738
C740
U801
TA800
C807
U704
C728
R736
OSC700
C739
C737
U705
F601
F602
F600

Problem #4

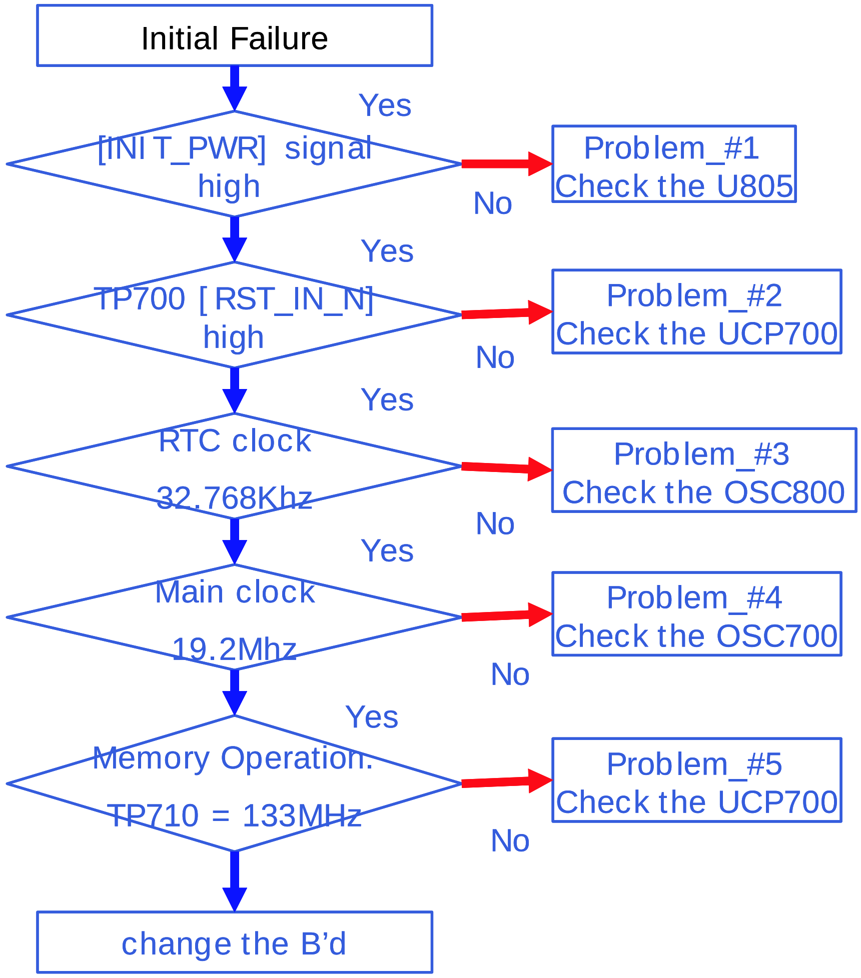

VBAT
C523
VAUDIO_3.0V
VAUDIO_1.8V
U504
1 VIN
2 GND
3 BYP
4 EN2
VOUT1 8
VOUT2 7
NC 6
EN1 5
GND 9
CODEC_PWR_EN
C530
C528
C529


VBAT
U603
VCC_3.0V
INIT_PWR
1 EN
2 GND
3 IN
BYP 6
NC 5
OUT 4
GND 7
C647
C648
C627

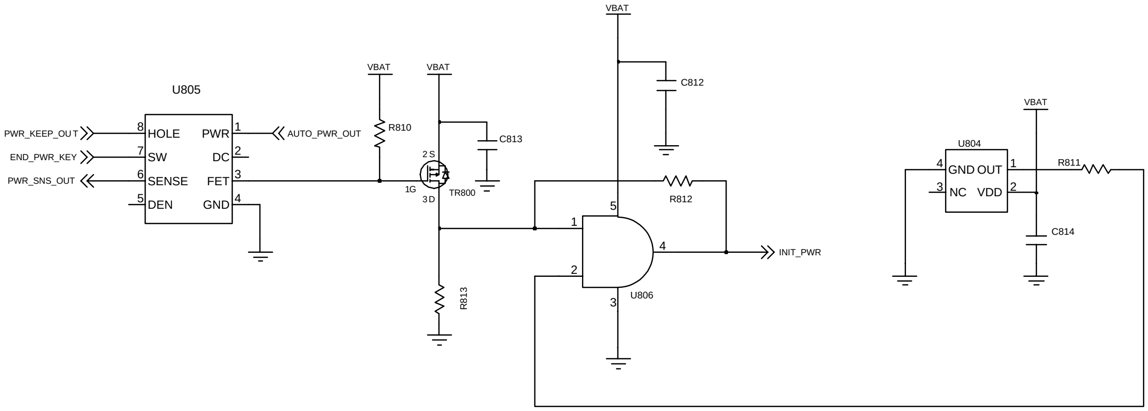

R503
R506
VAUDIO_1.8V
VCC_3.0V
VBAT
D8
E9
D9
VCOC
VCOCBT
VCOM
C509
C510
C507
C508
R504
R501
R507
R508
C511
TH500
SAIN1 D1
SAIN2 C2
SAIN3 C1
I2C H5
MCKI H4
MCKO J4
MDT A1
MPWR B1
MUTET C8
TP500
C513
CLK19.2M_CODEC
SDTI H1
SDTIA J8
G1
CODEC_SDI
BT_PCM_OUT

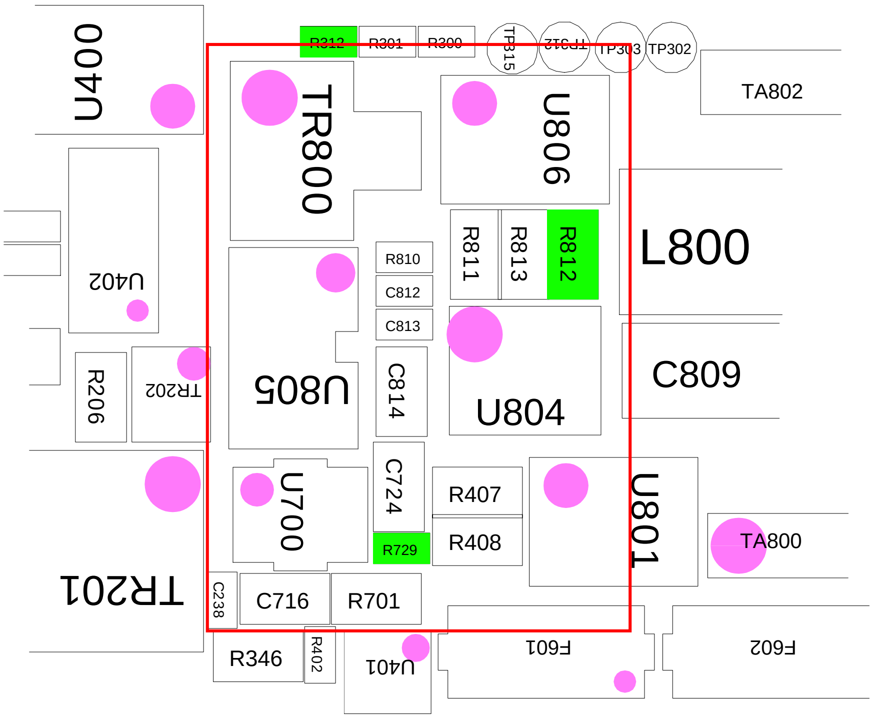

ZD501
C534
R510
R511
C520
C514
C521
C515
C516
C522
C526
C519
C517
C524
TP500
TH500
C518
C525
C513
R503
C510
C509
R506
C507
C531
R513
C508
R727
U502
C501
U500
C511
R501
R507
R508
C505
C606
C608
C629
U501
TA501
C500
C528
C529
R732
R509
R504
C502
C503
R356
U503
R357
C506
C512
C504
TA500
TP106
TP716
C527
R512
R728
C631
R502
U504
CLIP109
U608
C638
C523
C530
C221
U201
C220
R201
C202
R427
C442
CLIP118
BAT400
C236
TCX200
R200
C204
C203
C201
C801
C619
U600
C618
CLIP111
C620
CLIP107
C217
C229
C231
L200
L203
L210
L209
R204
TR200
C210
C207
L204
L202
L201
L205
L206
C627
C648
U603
C647
R210
L212
C225
C226
TH200

10-1-2. System Initial

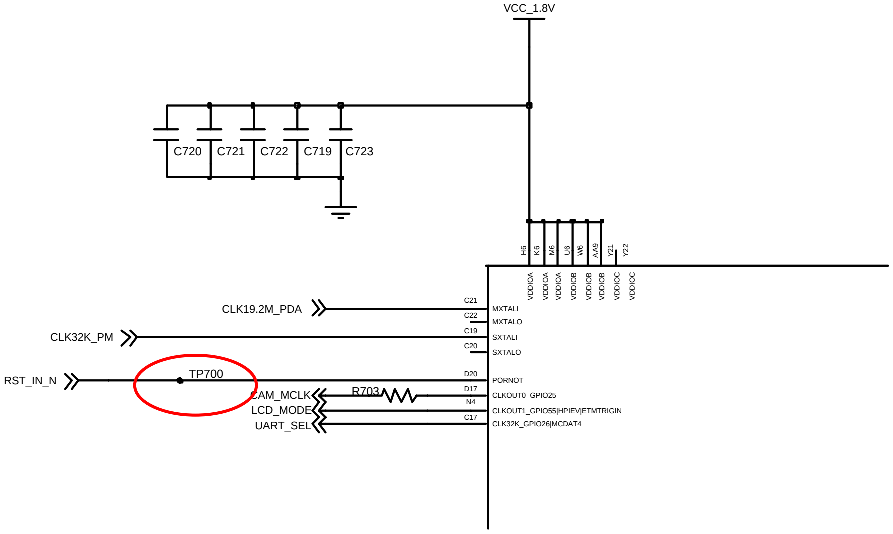

Initial Failure
[INIT_PWR] signal high
Yes
No
Problem_#1
Check the U805
TP700 [RST_IN_N] high
Yes
No
Problem_#2
Check the UCP700
RTC clock 32.768Khz
Yes
No
Problem_#3
Check the OSC800
Main clock 19.2Mhz
Yes
No
Problem_#4
Check the OSC700
Memory Operation: TP710 = 133MHz
Yes
No
Problem_#5
Check the UCP700
change the B'd

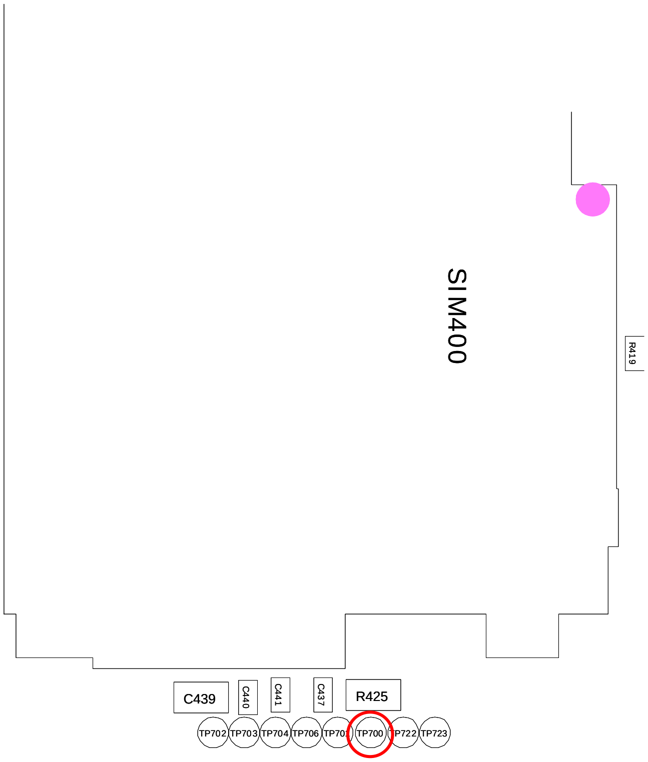
Problem #1

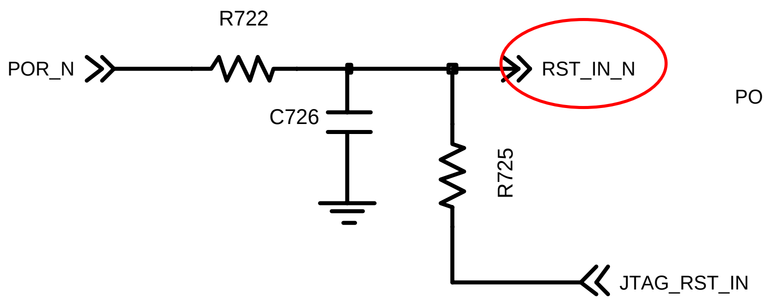

U805
PWR_KEEP_OUT
END_PWR_KEY
PWR_SNS_OUT
8 HOLE
7 SW
6 SENSE
5 DEN
PWR 1
DC 2
FET 3
GND 4
AUTO_PWR_OUT
VBAT
R810
VBAT
2 S
1G
3 D
TR800
C813
VBAT
C812
R812
R813
U806
1
2
3
4
5
INIT_PWR
VBAT
U804
4 GND OUT 1
3 NC VDD 2
R811
C814

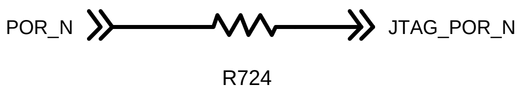

U400
R812
R301
R300
TP315
TP312
TP303
TP302
TA802
TR800
U806
U402
R810
C812
C813
R811
R813
R812
L800
U805
C814
U804
C809
R206
TR202
U700
C724
R407
R408
U801
R729
TA800
TR201
C238
C716
R701
R346
R402
U401
F601
F602

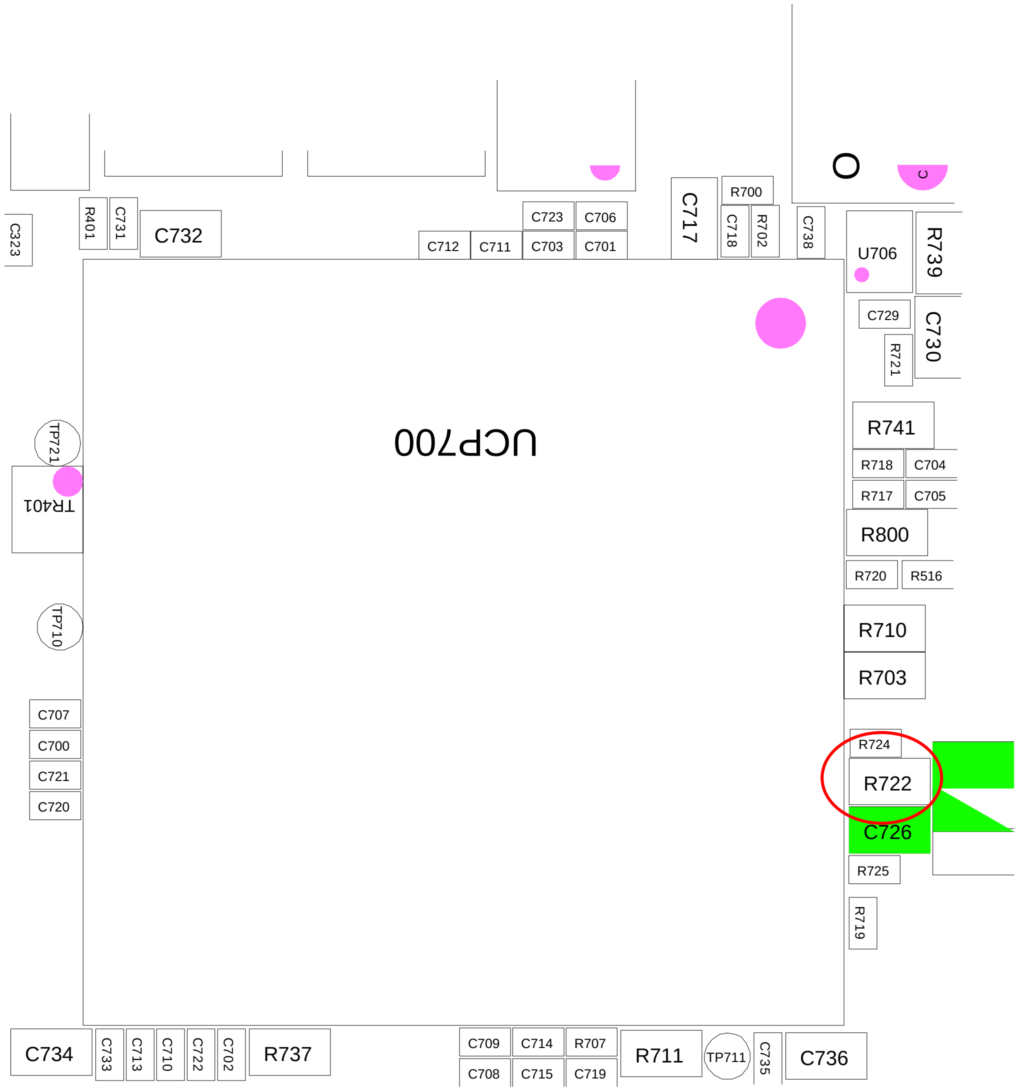
Problem #2


VCC_1.8V
C720
C721
C722
C719
C723
H6
K6
M6
U6
W6
AA9
Y21
Y22
VDDIOA
VDDIOA
VDDIOA
VDDIOB
VDDIOB
VDDIOB
VDDIOC
VDDIOC
CLK19.2M_PDA
CLK32K_PM
RST_IN_N
TP700
CAM_MCLK
LCD_MODE
UART_SEL
R703
C21
MXTALI
C22
MXTALO
C19
SXTALI
C20
SXTALO
D20
PORNOT
D17
CLKOUT0_GPIO25
N4
CLKOUT1_GPIO55|HPIEV|ETMTRIGIN
C17
CLK32K_GPIO26|MCDAT4

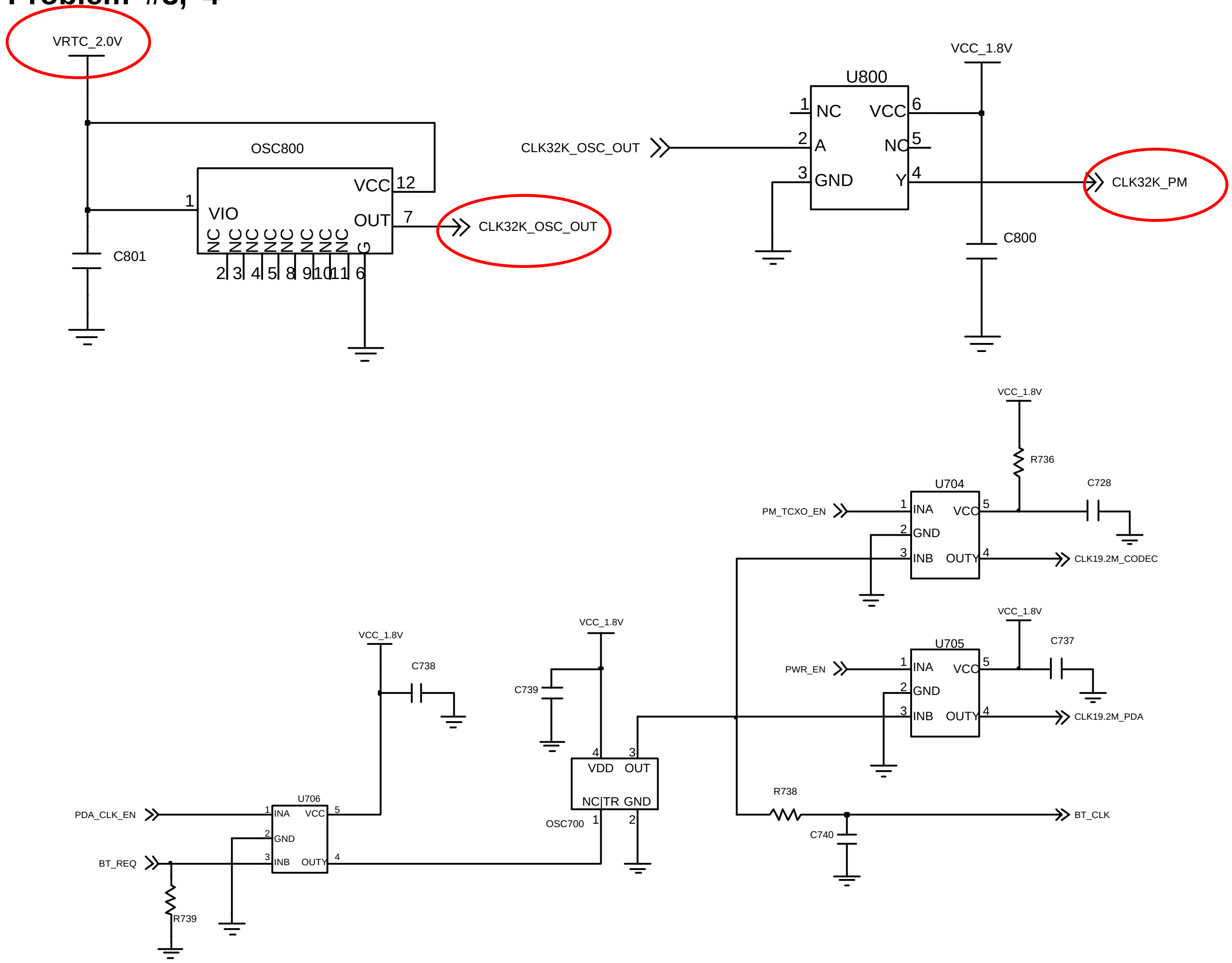

SIM400
R419
C439
C440
C441
C437
R425
TP702
TP703
TP704
TP706
TP70
TP700
TP722
TP723


R722
POR_N
RST_IN_N
C726
R725
JTAG_RST_IN

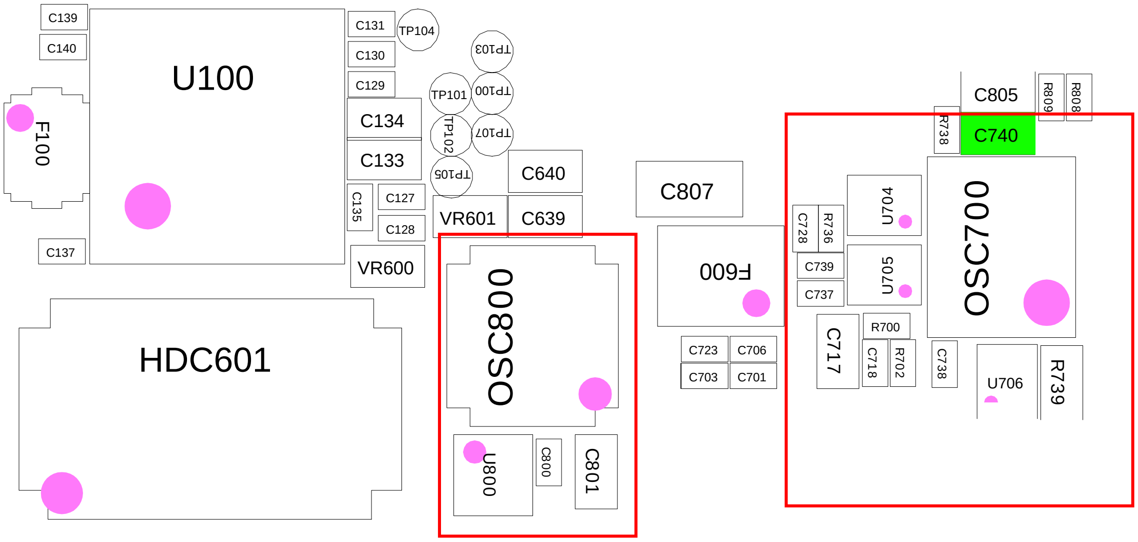

POR_N
JTAG_POR_N
R724

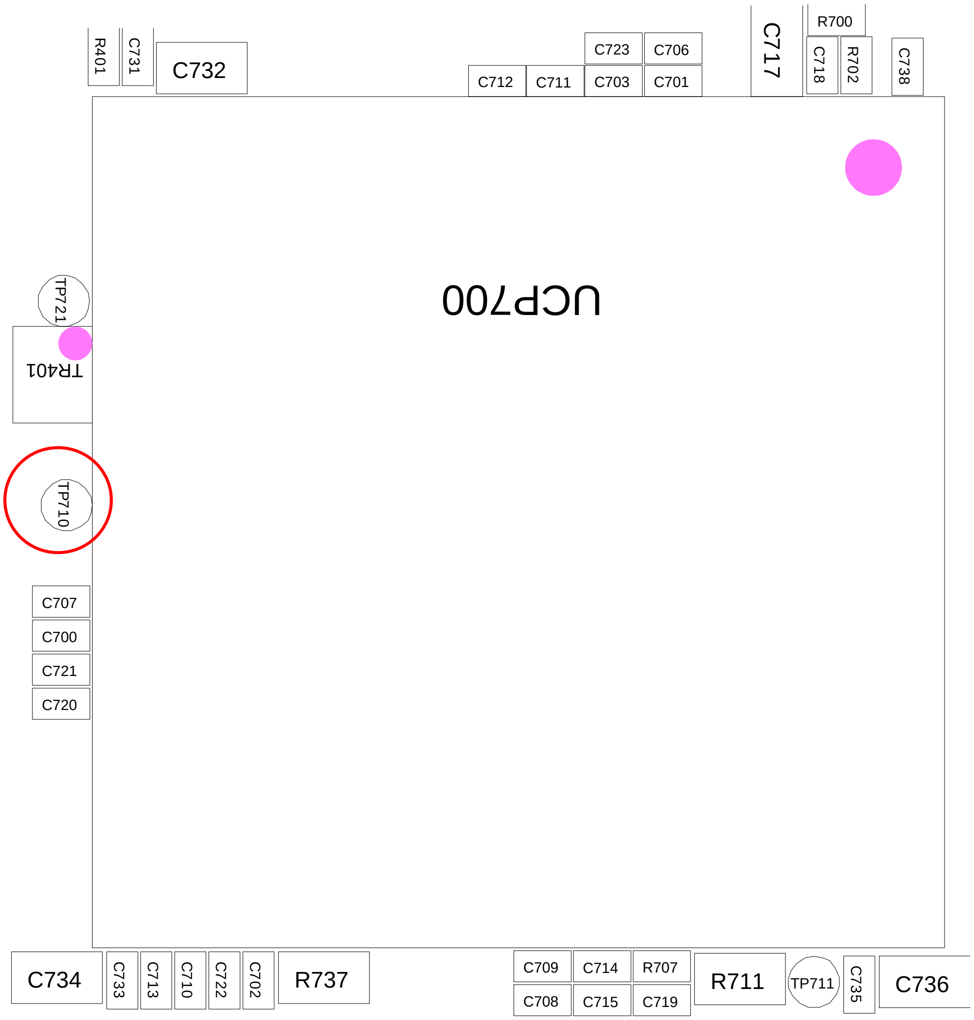

R700
C717
C718
R702
C738
O
C
C723
C706
C712
C711
C703
C701
C323
R401
C731
C732
U706
R739
C729
C730
R721
UCP700
TP721
TR401
R741
R718
C704
R717
C705
R800
R720
R516
TP710
R710
R703
C707
C700
C721
C720
R724
R722
C726
R725
R719
C734
C733
C713
C710
C722
C702
R737
C709
C714
R707
C708
C715
C719
R711
TP711
C735
C736

Problem #3, 4

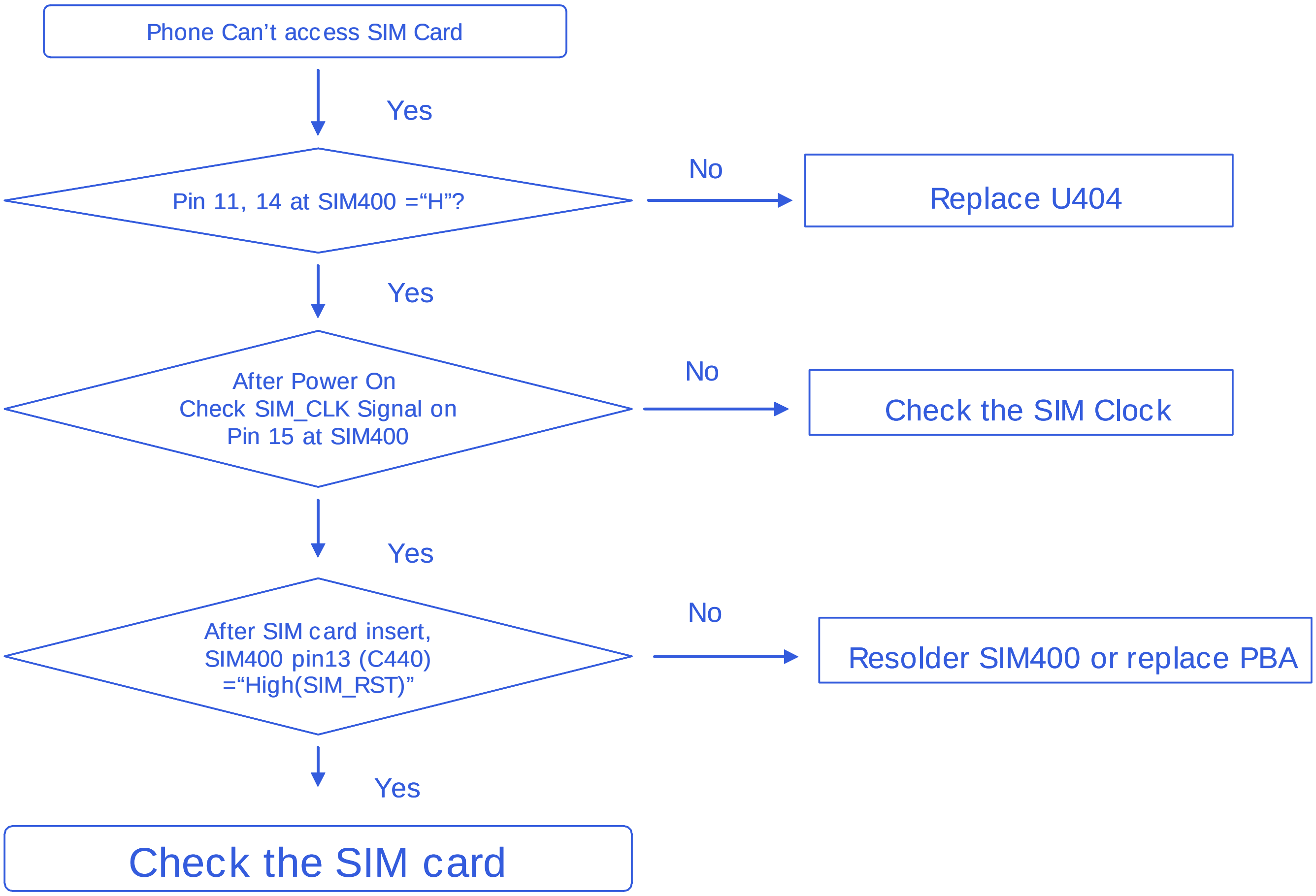

VRTC_2.0V
OSC800
VIO
VCC
OUT
NC
G
1
12
7
2 3 4 5 8 9 10 11 6
C801
CLK32K_OSC_OUT
CLK32K_OSC_OUT
U800
VCC_1.8V
NC
A
GND
VCC
NC
Y
1 2 3 6 5 4
CLK32K_PM
C800
VCC_1.8V
R736
U704
C728
PM_TCXO_EN
INA
GND
INB
VCC
OUTY
CLK19.2M_CODEC
VCC_1.8V
U705
C737
PWR_EN
CLK19.2M_PDA
VCC_1.8V
C738
VCC_1.8V
C739
VDD OUT
NC TR GND
OSC700
R738
BT_CLK
C740
U706
PDA_CLK_EN
BT_REQ
R739

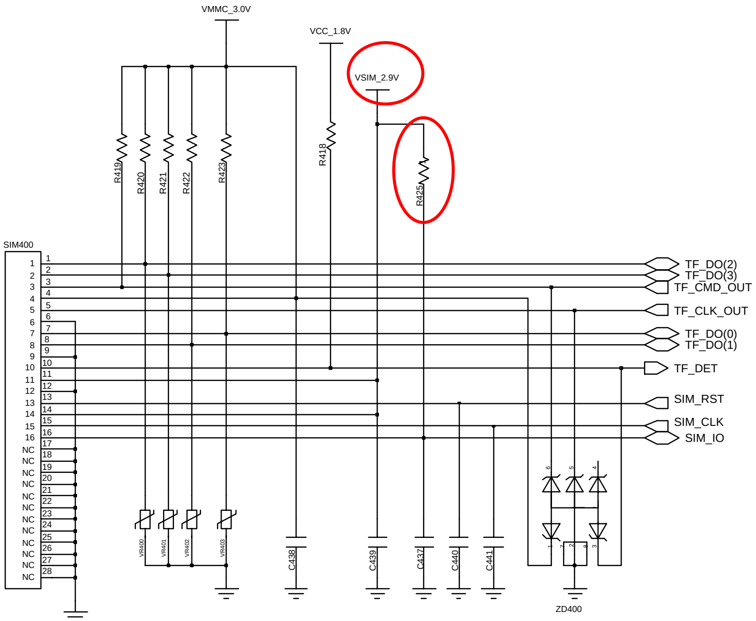
Problem #5

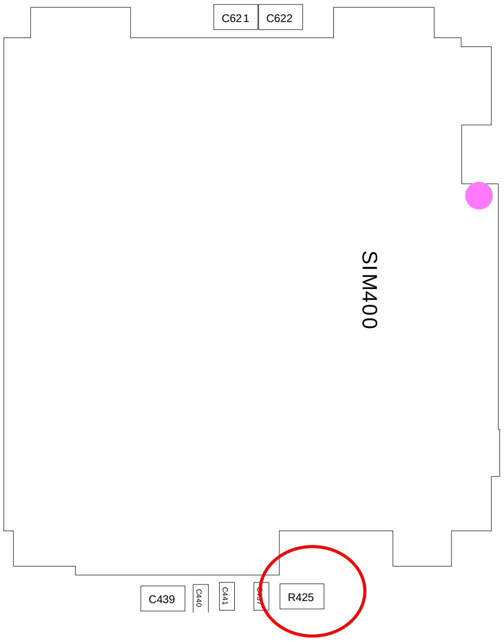

C139
C140
F100
U100
C137
HDC601
C131
C130
C129
C134
C133
C135
C127
C128
VR600
TP104
TP103
TP101
TP100
TP102
TP107
TP105
C640
VR601
C639
OSC800
U800
C800
C801
C807
F600
C723
C706
C703
C701
C805
R809
R808
R738
C740
OSC700
U704
C728
R736
U705
C739
C737
C717
R700
C718
R702
C738
U706
R739


R401
C731
C732
C712
C711
C723
C703
C706
C701
C717
R700
C718
R702
C738
UCP700
TP721
TR401
TP710
C707
C700
C721
C720
C734
C733
C713
C710
C722
C702
R737
C709
C708
C714
C715
R707
C719
R711
TP711
C735
C736

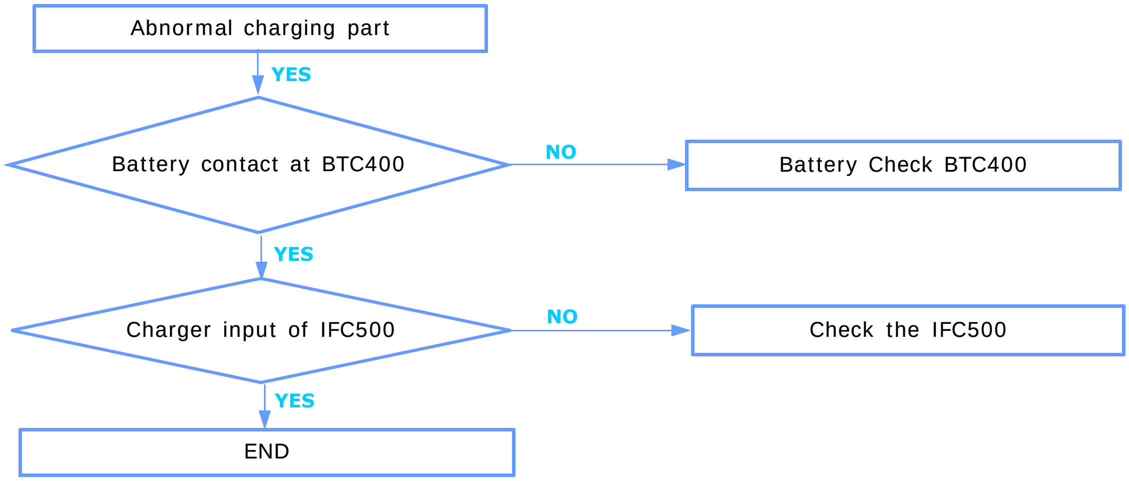
10-1-3. Sim Part

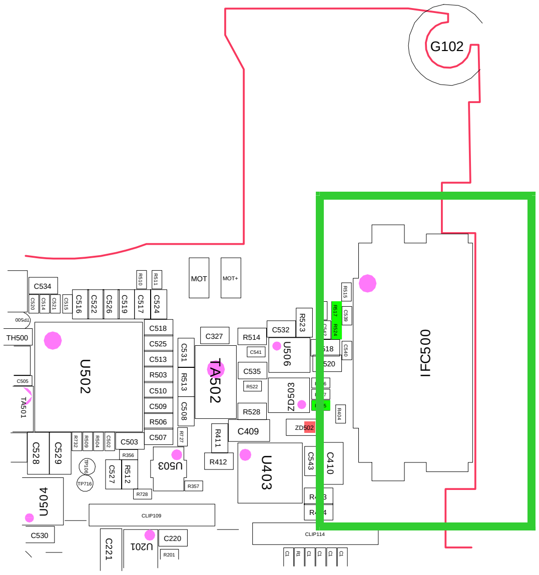

Phone Can’t access SIM Card
Yes
Pin 11, 14 at SIM400 =“H”?
No
Replace U404
Yes
After Power On
Check SIM_CLK Signal on
Pin 15 at SIM400
No
Check the SIM Clock
Yes
After SIM card insert,
SIM400 pin13 (C440)
=“High(SIM_RST)”
No
Resolder SIM400 or replace PBA
Yes
Check the SIM card

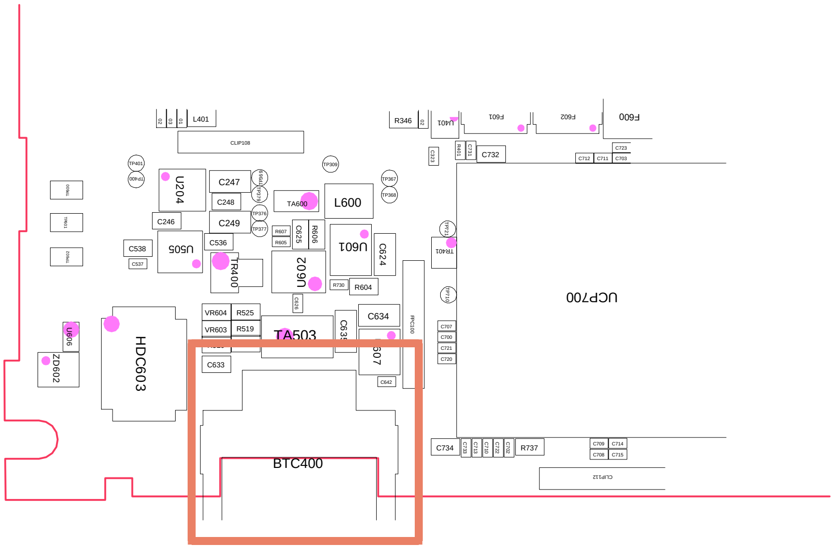

VMMC_3.0V
VCC_1.8V
VSIM_2.9V
R419
R420
R421
R422
R423
R418
R425
SIM400
TF_DO(2)
TF_DO(3)
TF_CMD_OUT
TF_CLK_OUT
TF_DO(0)
TF_DO(1)
TF_DET
SIM_RST
SIM_CLK
SIM_IO
C438
C439
C437
C440
C441
ZD400


C621
C622
SIM400
C439
C440
C441
R425

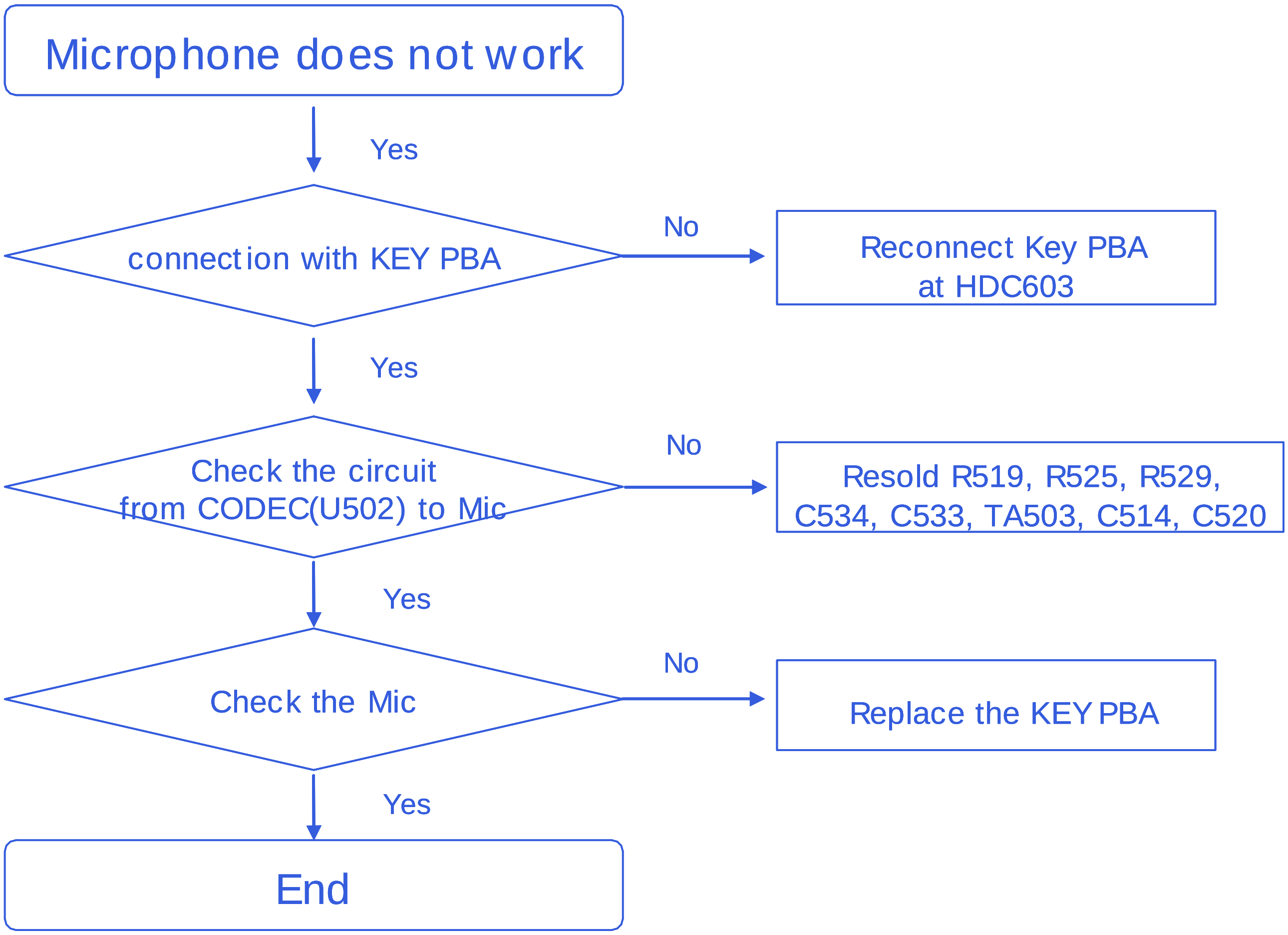
10-1-4. Charging Part

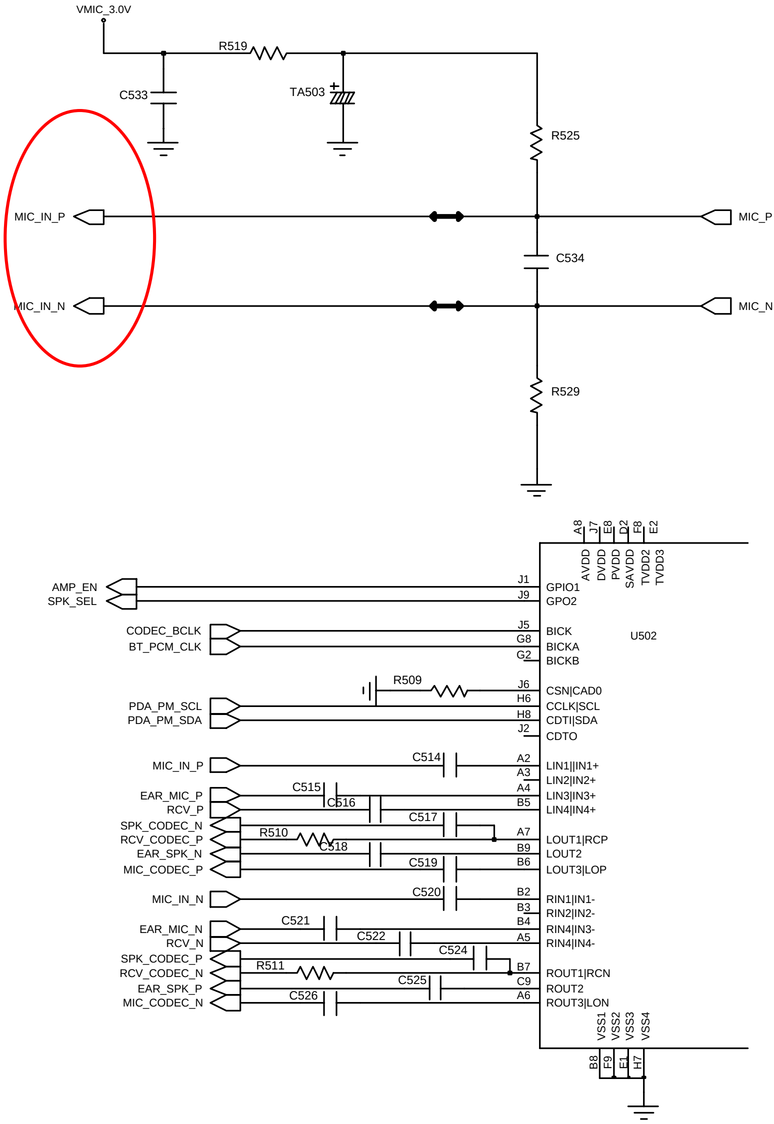

Abnormal charging part
YES
Battery contact at BTC400
NO
Battery Check BTC400
YES
Charger input of IFC500
NO
Check the IFC500
YES
END

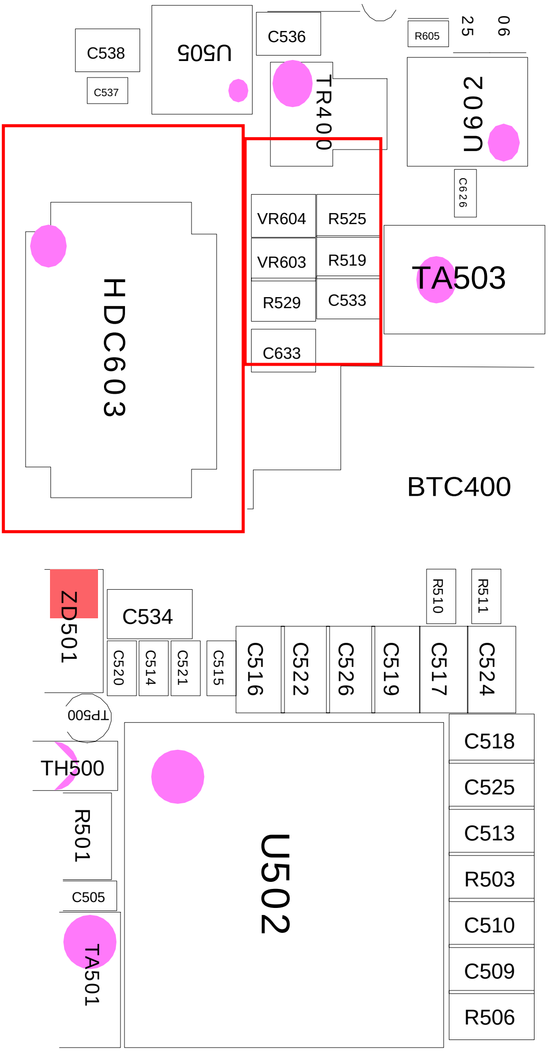

G102
IFC500
U502
TA502
U506
U403
U503
U504
TA501
TH500
MOT
MOT+
C534
C518
C525
C513
R503
C510
C509
R506
C507
C503
C528
C529
C527
R512
C530
C221
U201
C220
R201
CLIP109
CLIP114
C327
R514
C532
R523
C535
R528
C409
R411
R412
C543
C410
ZD502
ZD503


L401
CLIP108
R346
F601
F602
F600
U204
C247
C248
C249
C246
C538
C537
U505
C536
TR400
TA600
L600
U601
U602
C624
C625
R606
R604
C634
VR604
VR603
R525
R519
TA503
C633
U607
C642
HDC603
U606
ZD602
BTC400
UCP700
C732
C734
R737
CLIP112

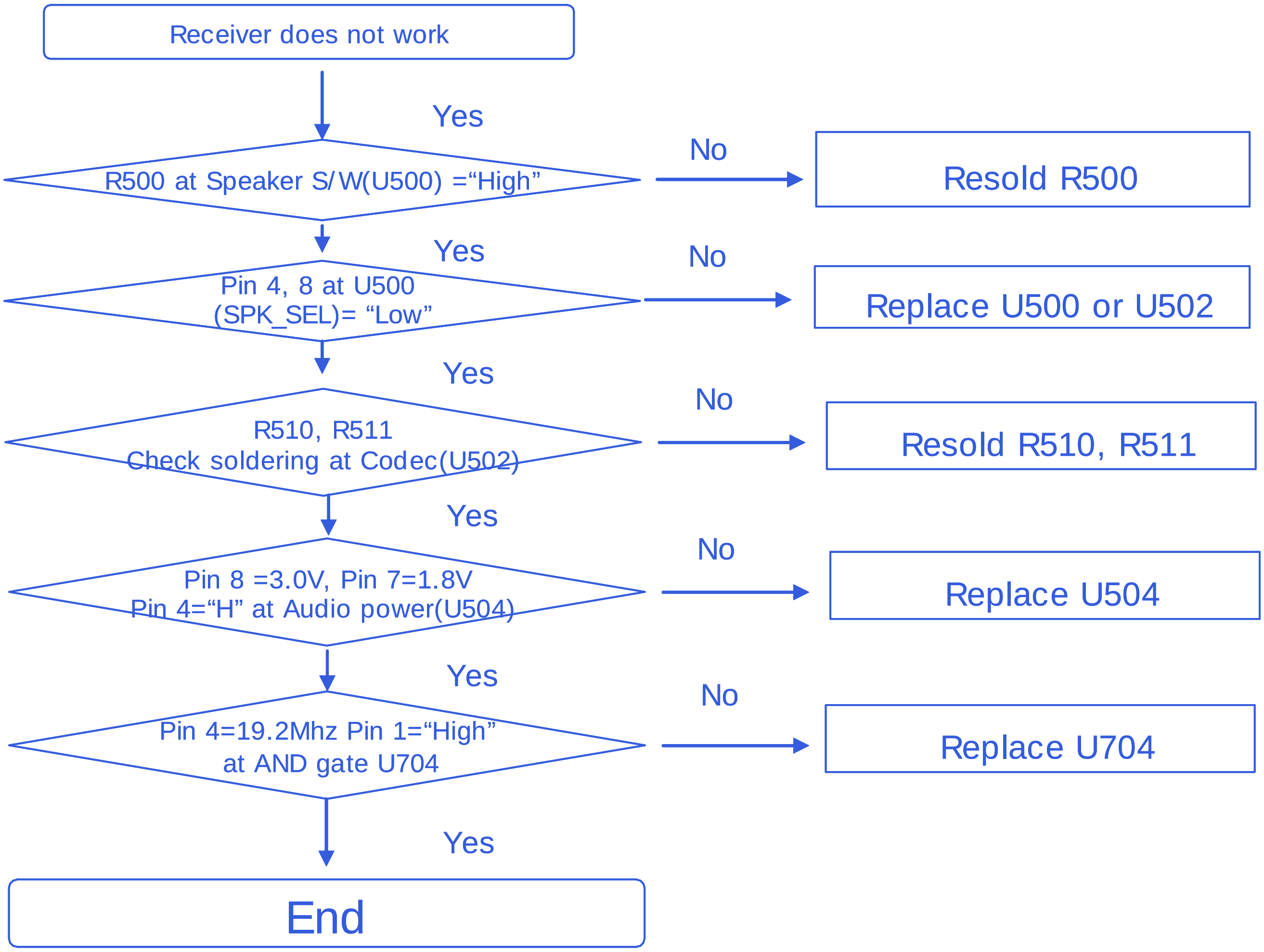
10-1-5. Microphone Part

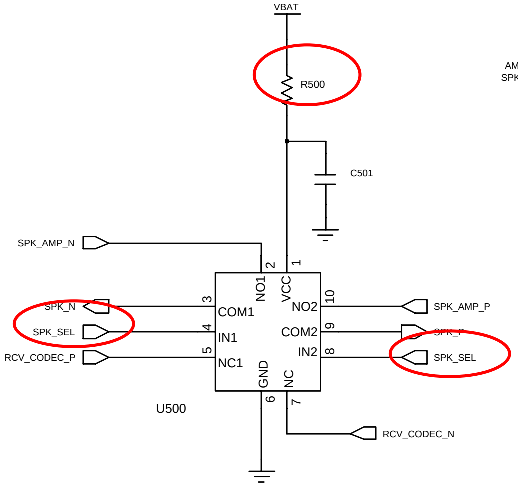

Microphone does not work
Yes
connection with KEY PBA
No
Reconnect Key PBA
at HDC603
Yes
Check the circuit
from CODEC(U502) to Mic
No
Resold R519, R525, R529,
C534, C533, TA503, C514, C520
Yes
Check the Mic
No
Replace the KEY PBA
Yes
End

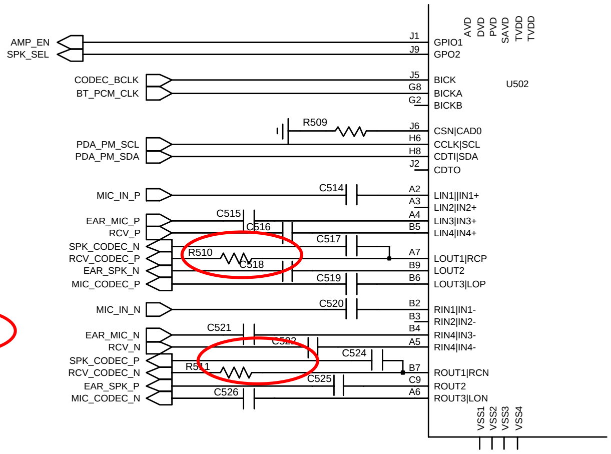

VMIC_3.0V
R519
C533
TA503
R525
MIC_IN_P
MIC_P
C534
MIC_IN_N
MIC_N
R529
A8 J7 E8 D2 F8 E2
AVDD
DVDD
PVDD
SAVDD
TVDD2
TVDD3
AMP_EN
SPK_SEL
J1 GPIO1
J9 GPO2
CODEC_BCLK
BT_PCM_CLK
J5 BICK
G8 BICKA
G2 BICKB
U502
R509
J6 CSN|CAD0
H6 CCLK|SCL
H8 CDTI|SDA
J2 CDTO
PDA_PM_SCL
PDA_PM_SDA
MIC_IN_P
C514
A2 LIN1||IN1+
A3 LIN2|IN2+
A4 LIN3|IN3+
B5 LIN4|IN4+
C515
C516
EAR_MIC_P
RCV_P
C517
SPK_CODEC_P
RCV_CODEC_P
EAR_SPK_N
MIC_CODEC_P
R510
C518
C519
A7 LOUT1|RCP
B9 LOUT2
B6 LOUT3|LOP
MIC_IN_N
C520
B2 RIN1|IN1-
B3 RIN2|IN2-
B4 RIN4|IN3-
A5 RIN4|IN4-
C521
C522
EAR_MIC_N
RCV_N
C524
SPK_CODEC_P
RCV_CODEC_N
EAR_SPK_P
MIC_CODEC_N
R511
C525
C526
B7 ROUT1|RCN
C9 ROUT2
A6 ROUT3|LON
VSS1
VSS2
VSS3
VSS4
B8 F9 E1 H7

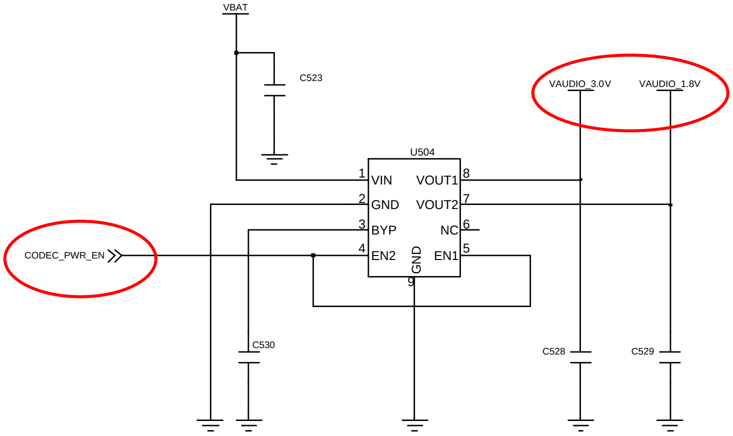

C538
C537
U505
C536
R605
25
06
TR400
U602
C626
HDC603
VR604
R525
VR603
R519
R529
C533
C633
TA503
BTC400
ZD501
C534
R510
R511
C520
C514
C521
C515
C516
C522
C526
C519
C517
C524
TP500
TH500
C518
C525
C513
R503
C510
C509
R506
R501
C505
TA501
U502

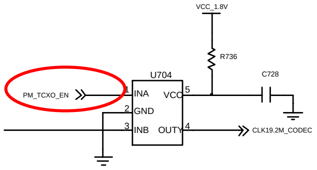
10-1-6. Receiver Part

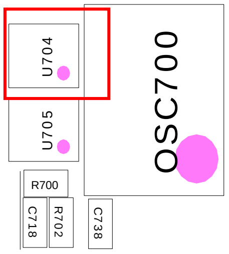

Receiver does not work
Yes
R500 at Speaker S/W(U500) =“High”
No
Resold R500
Yes
Pin 4, 8 at U500
(SPK_SEL)= “Low”
No
Replace U500 or U502
Yes
R510, R511
Check soldering at Codec(U502)
No
Resold R510, R511
Yes
Pin 8 =3.0V, Pin 7=1.8V
Pin 4=“H” at Audio power(U504)
No
Replace U504
Yes
Pin 4=19.2Mhz Pin 1=“High”
at AND gate U704
No
Replace U704
Yes
End

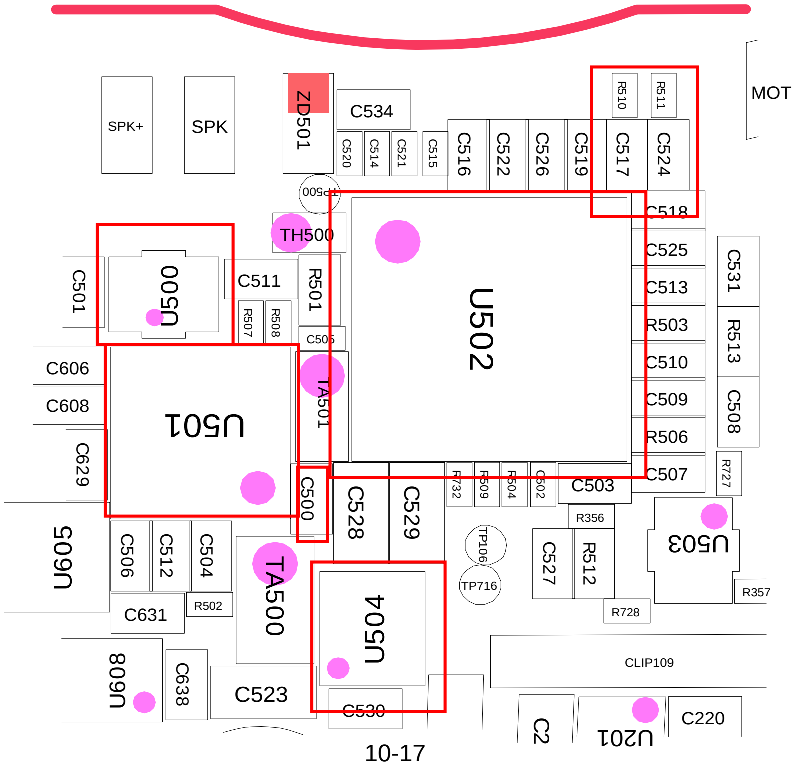

VBAT
R500
C501
SPK_AMP_N
SPK_N
SPK_SEL
RCV_CODEC_P
COM1
IN1
NC1
NO1
VCC
NO2
COM2
IN2
GND
NC
SPK_AMP_P
SPK_P
SPK_SEL
RCV_CODEC_N
U500


AMP_EN
SPK_SEL
CODEC_BCLK
BT_PCM_CLK
R509
PDA_PM_SCL
PDA_PM_SDA
MIC_IN_P
C514
C515
C516
EAR_MIC_P
RCV_P
SPK_CODEC_N
RCV_CODEC_P
EAR_SPK_N
MIC_CODEC_P
R510
C517
C518
C519
MIC_IN_N
C520
EAR_MIC_N
RCV_N
C521
C522
C524
SPK_CODEC_P
RCV_CODEC_N
EAR_SPK_P
MIC_CODEC_N
R511
C525
C526
GPIO1
GPO2
BICK
BICKA
BICKB
CSN|CAD0
CCLK|SCL
CDTI|SDA
CDTO
LIN1||IN1+
LIN2|IN2+
LIN3|IN3+
LIN4|IN4+
LOUT1|RCP
LOUT2
LOUT3|LOP
RIN1|IN1-
RIN2|IN2-
RIN4|IN3-
RIN4|IN4-
ROUT1|RCN
ROUT2
ROUT3|LON
AVD
DVD
PVD
SAVD
TVDD
TVDD
VSS1
VSS2
VSS3
VSS4
U502

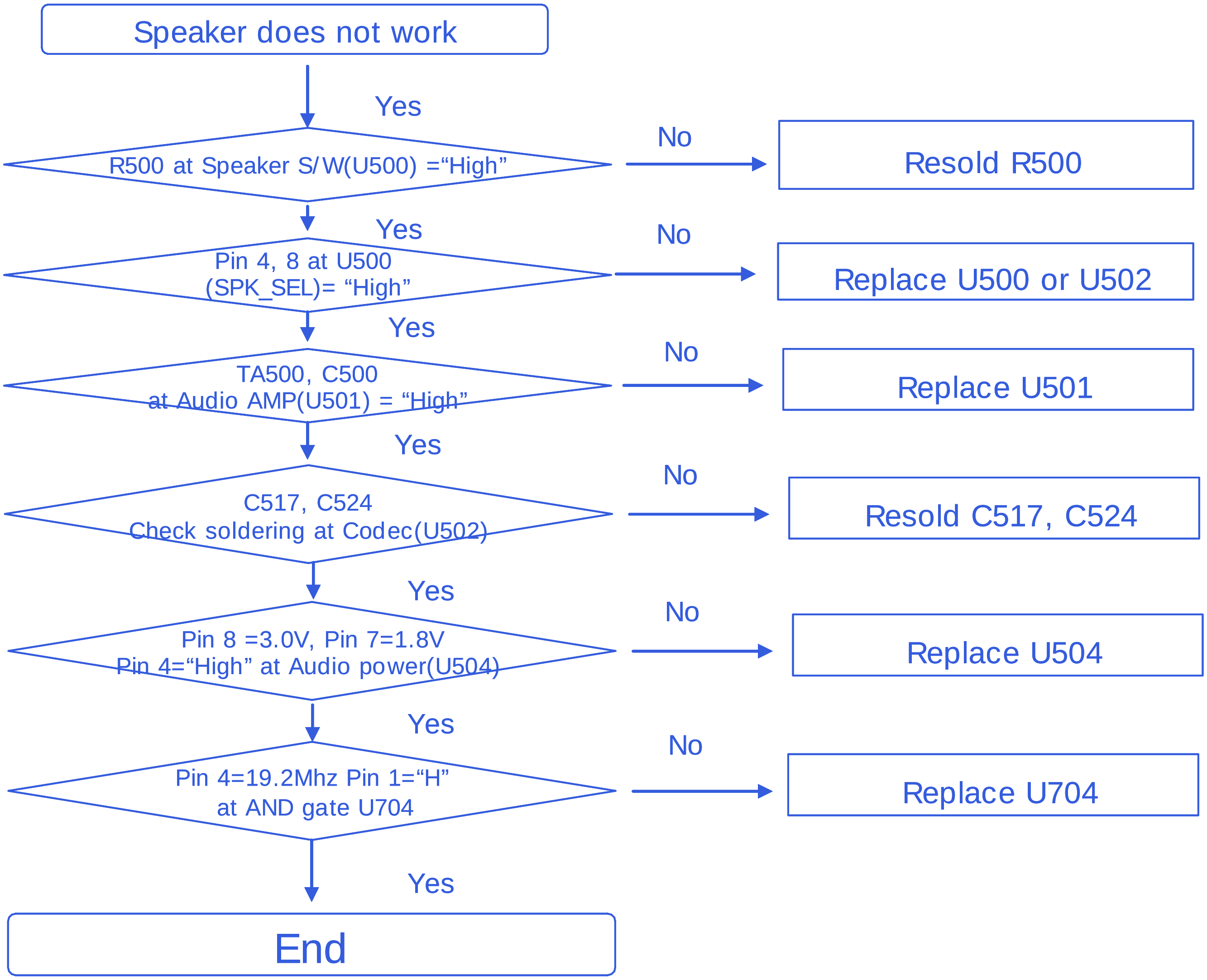

VBAT
C523
VAUDIO_3.0V
VAUDIO_1.8V
U504
VIN
GND
BYP
EN2
VOUT1
VOUT2
NC
EN1
GND
CODEC_PWR_EN
C530
C528
C529

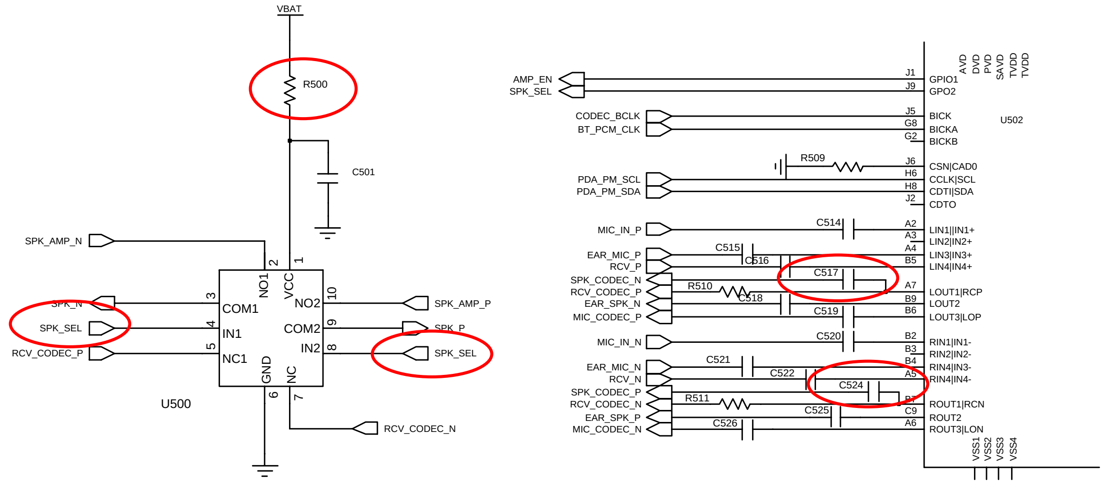

VCC_1.8V
R736
C728
U704
PM_TCXO_EN
INA
GND
INB
VCC
OUTY
CLK19.2M_CODEC

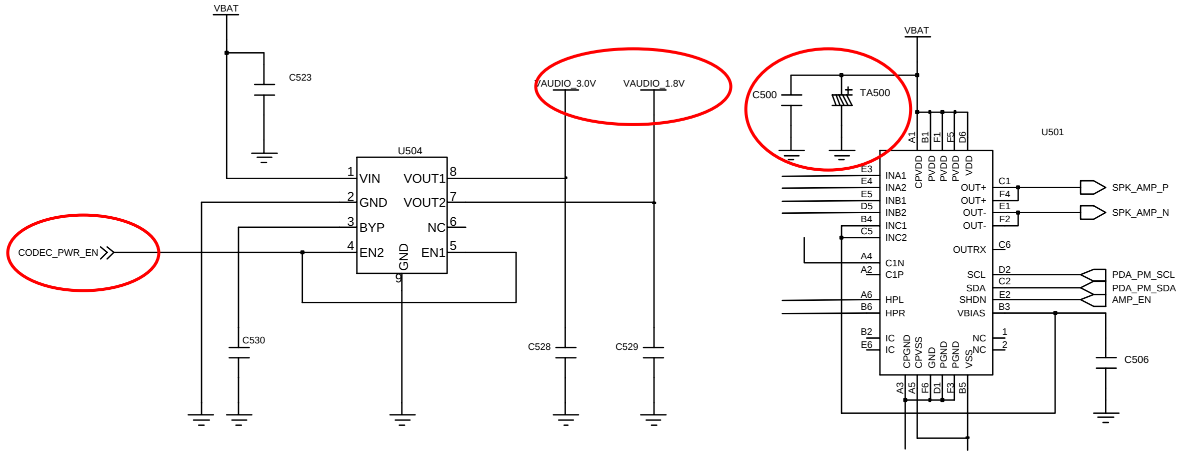

U704
U705
OSC700
R700
C718
R702
C738

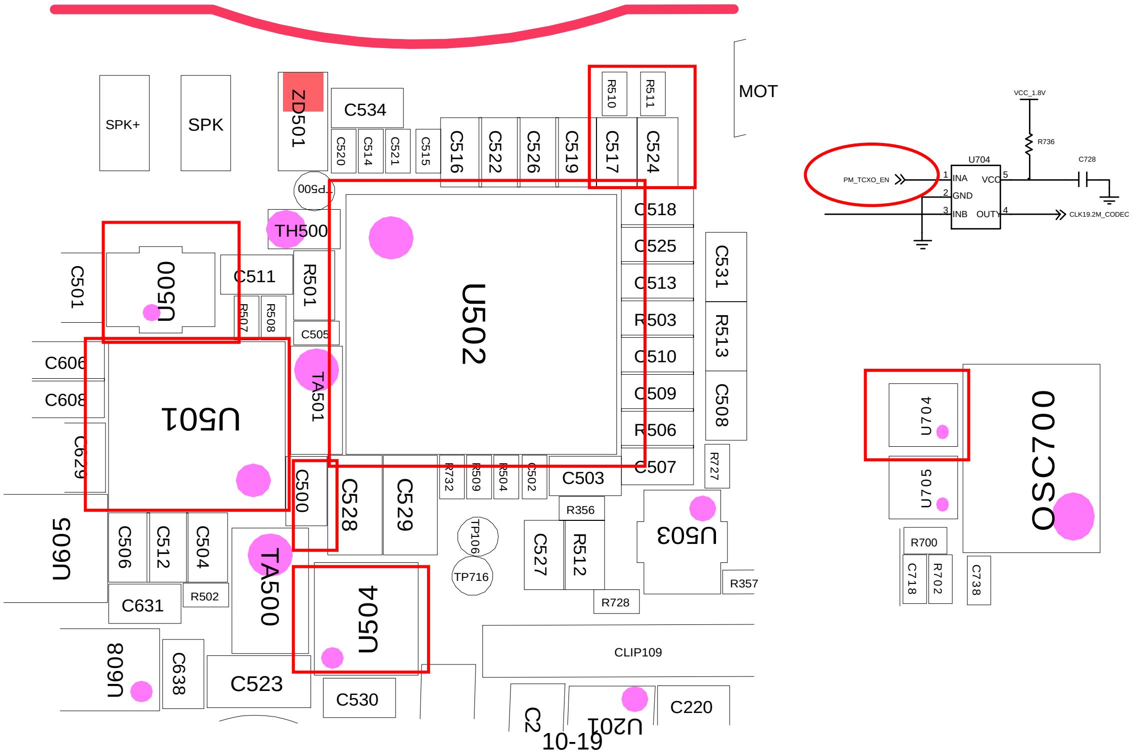

SPK+
SPK
ZD501
C534
C520
C514
C521
C515
C516
C522
C526
C519
R510
R511
C517
C524
MOT
TP500
TH500
C518
C525
C513
R503
C510
C509
R506
C507
C531
R513
C508
R727
C501
U500
C511
R501
R507
R508
C505
TA501
U502
C606
C608
U501
C629
C500
C528
C529
R732
R509
R504
C502
C503
R356
U605
C506
C512
C504
TA500
TP106
TP716
C527
R512
U503
R357
R728
C631
R502
U504
U608
C638
C523
C530
CLIP109
C2
U201
C220

10-1-7. Speaker Part

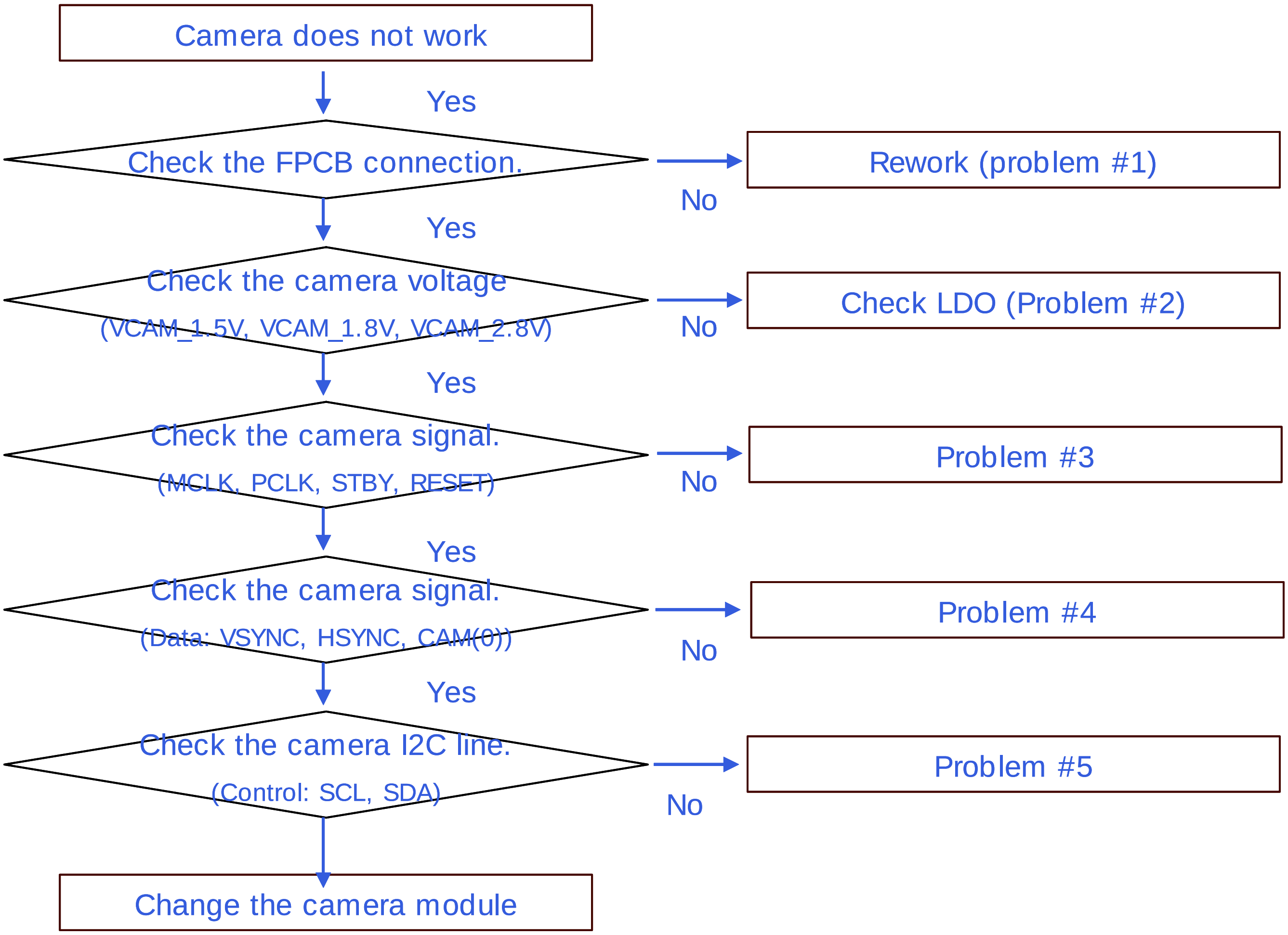

Speaker does not work
Yes
R500 at Speaker S/W(U500) =“High”
No
Resold R500
Yes
Pin 4, 8 at U500
(SPK_SEL)= “High”
No
Replace U500 or U502
Yes
TA500, C500
at Audio AMP(U501) = “High”
No
Replace U501
Yes
C517, C524
Check soldering at Codec(U502)
No
Resold C517, C524
Yes
Pin 8 =3.0V, Pin 7=1.8V
Pin 4=“High” at Audio power(U504)
No
Replace U504
Yes
Pin 4=19.2Mhz Pin 1=“H”
at AND gate U704
No
Replace U704
Yes
End


VBAT
R500
C501
SPK_AMP_N
SPK_N
SPK_SEL
RCV_CODEC_P
COM1
IN1
NC1
NO1
VCC
NO2
COM2
IN2
GND
NC
SPK_AMP_P
SPK_P
SPK_SEL
RCV_CODEC_N
U500
AMP_EN
SPK_SEL
CODEC_BCLK
BT_PCM_CLK
R509
PDA_PM_SCL
PDA_PM_SDA
MIC_IN_P
EAR_MIC_P
RCV_P
SPK_CODEC_N
RCV_CODEC_P
EAR_SPK_N
MIC_CODEC_P
MIC_IN_N
EAR_MIC_N
RCV_N
SPK_CODEC_P
RCV_CODEC_N
EAR_SPK_P
MIC_CODEC_N
C514
C515
C516
C517
R510
C518
C519
C520
C521
C522
C524
R511
C525
C526
GPIO1
GPO2
BICK
BICKA
BICKB
CSN|CAD0
CCLK|SCL
CDTI|SDA
CDTO
LIN1||IN1+
LIN2|IN2+
LIN3|IN3+
LIN4|IN4+
LOUT1|RCP
LOUT2
LOUT3|LOP
RIN1|IN1-
RIN2|IN2-
RIN4|IN3-
RIN4|IN4-
ROUT1|RCN
ROUT2
ROUT3|LON
AVD
DVD
PVD
SAVD
TVDD
TVDD
VSS1
VSS2
VSS3
VSS4
U502


VBAT
C523
U504
VIN
GND
BYP
EN2
VOUT1
VOUT2
NC
EN1
GND
CODEC_PWR_EN
C530
VAUDIO_3.0V
VAUDIO_1.8V
C528
C529
VBAT
C500
TA500
U501
INA1
INA2
INB1
INB2
INC1
INC2
C1N
C1P
HPL
HPR
IC
IC
CPVDD
PVDD
PVDD
PVDD
VDD
OUT+
OUT+
OUT-
OUT-
OUTRX
SCL
SDA
SHDN
VBIAS
NC
NC
CPGND
CPVSS
GND
PGND
PGND
VSS
SPK_AMP_P
SPK_AMP_N
PDA_PM_SCL
PDA_PM_SDA
AMP_EN
C506


SPK+
SPK
ZD501
C534
C520
C514
C521
C515
C516
C522
C526
C519
R510
R511
C517
C524
MOT
TP500
TH500
U502
C518
C525
C513
R503
C510
C509
R506
C507
C531
R513
C508
R727
C501
U500
C511
R501
R507
R508
C505
TA501
C606
C608
C629
U501
C500
C528
C529
R732
R509
R504
C502
C503
R356
U503
R357
TP106
TP716
C527
R512
R728
U605
C506
C512
C504
C631
R502
TA500
U504
U608
C638
C523
C530
CLIP109
C2
U201
C220
VCC_1.8V
R736
U704
C728
PM_TCXO_EN
INA
GND
INB
VCC
OUTY
CLK19.2M_CODEC
U704
U705
OSC700
R700
C718
R702
C738

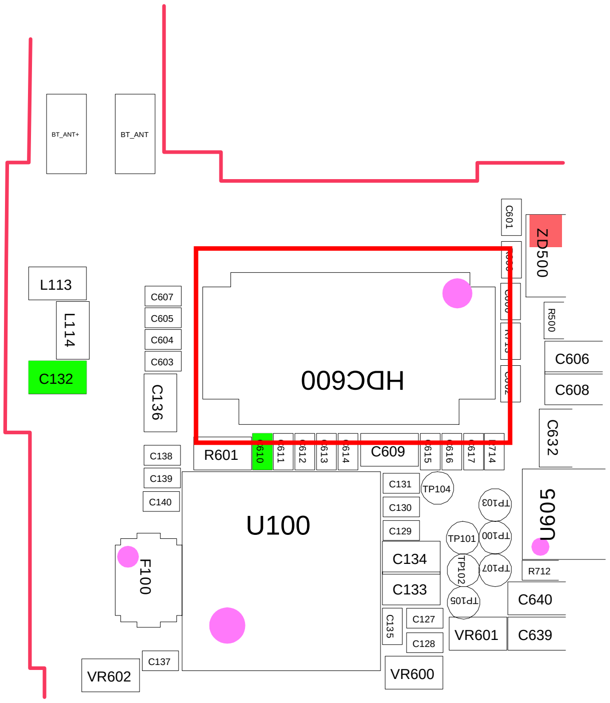
10-1-8. Camera Part


Camera does not work
Yes
Check the FPCB connection.
No
Rework (problem #1)
Yes
Check the camera voltage
(VCAM_1.5V, VCAM_1.8V, VCAM_2.8V)
No
Check LDO (Problem #2)
Yes
Check the camera signal.
(MCLK, PCLK, STBY, RESET)
No
Problem #3
Yes
Check the camera signal.
(Data: VSYNC, HSYNC, CAM(0))
No
Problem #4
Yes
Check the camera I2C line.
(Control: SCL, SDA)
No
Problem #5
Change the camera module

Problem #1

Check the FPCB connection.

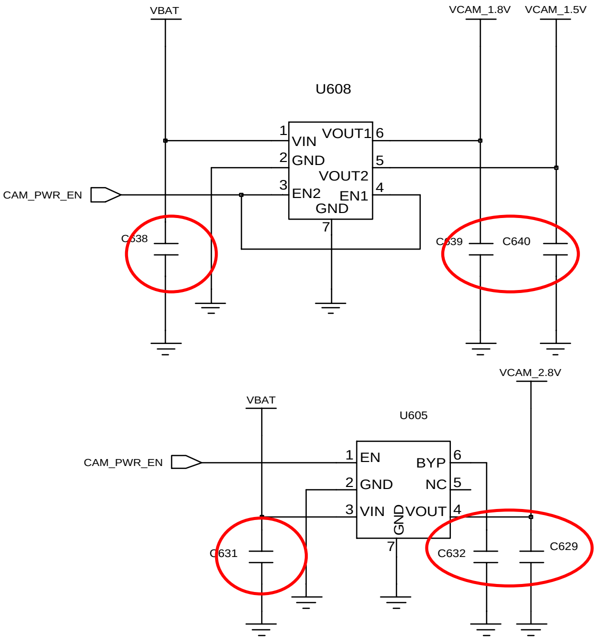
(camera module, slide FPCB, Connector HDC600)

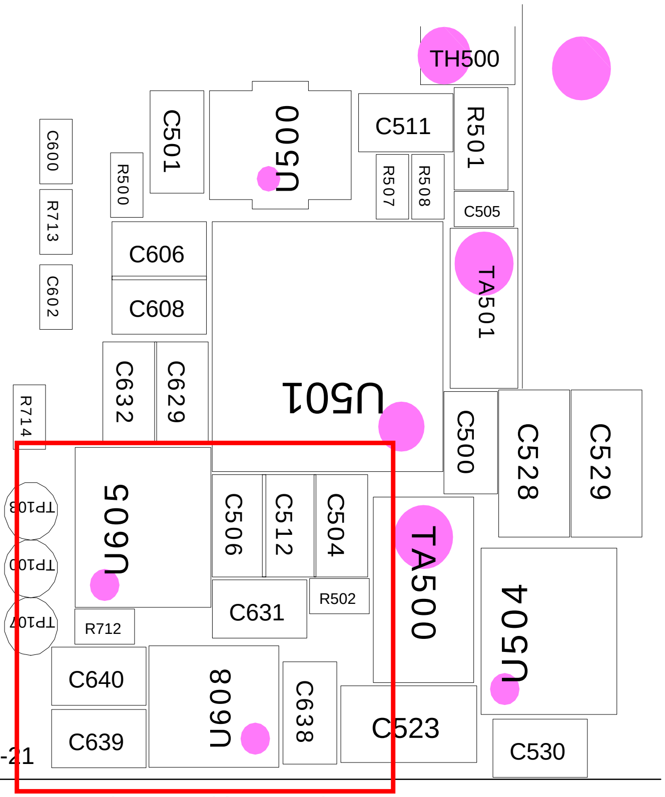

BT_ANT+
BT_ANT
L113
L114
C132
C607
C605
C604
C603
C136
HDC600
C601
ZD500
R500
C606
C608
C632
C138
C139
C140
R601
C609
U100
C131
C130
C129
TP104
TP103
TP101
TP100
U605
C134
C133
TP102
TP107
R712
TP105
C640
F100
C135
C127
C128
VR601
C639
VR602
C137
VR600

Problem #2

Check the Camera Voltage Sources.

(VCAM_1.5V, VCAM_1.8V[U608] / VCAM_2.8V[U605])


VBAT
VCAM_1.8V
VCAM_1.5V
U608
VIN
VOUT1
GND
VOUT2
EN2
EN1
GND
CAM_PWR_EN
C638
C639
C640
VCAM_2.8V
VBAT
U605
EN
BYP
GND
NC
VIN
VOUT
CAM_PWR_EN
C631
C632
C629


TH500
C600
C501
U500
C511
R501
R500
R507
R508
C505
R713
C606
C608
C602
TA501
R714
C632
C629
U501
C500
C528
C529
TP108
U605
C506
C512
C504
TA500
TP103
R502
U504
TP107
R712
C631
C640
U608
C638
C523
C639
C530

Problem #3

	2M CAM		CIF CAM	
	Point	State	Point	State
MCLK	C601	48Mhz	C601	9Mhz
PCLK	R601	48Mhz	R601	4.5Mhz
STBY	HDC600_#19	L→ H	HDC602_#5	L→ H
RESET	C615	L→ H	HDC602_#22	L→ H

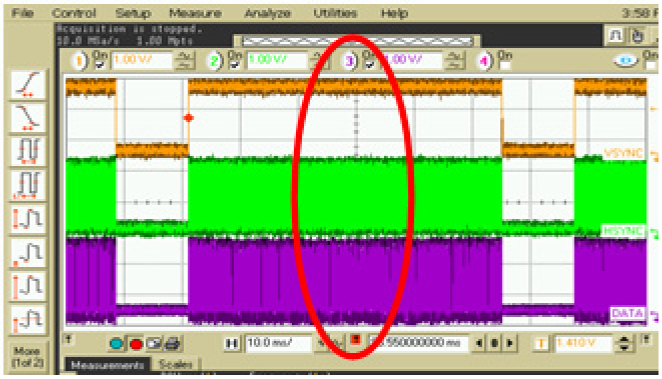
Problem #4

Check the Camera Signal

VSYNC : C602

HSYNC : C616

CAM_D(0) : C607

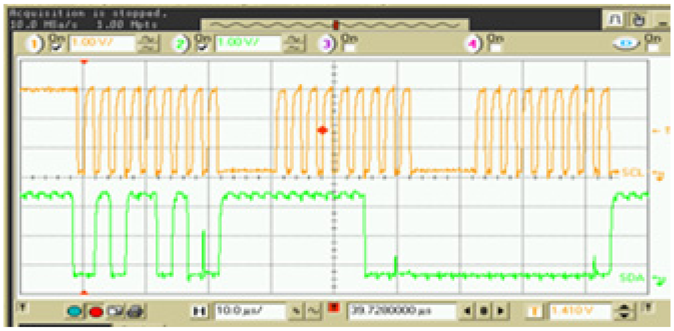

File
Control
Setup
Measure
Analyze
Utilities
Help
VSYNC
HSYNC
DATA
10.0 ms/
Measurements
Scales

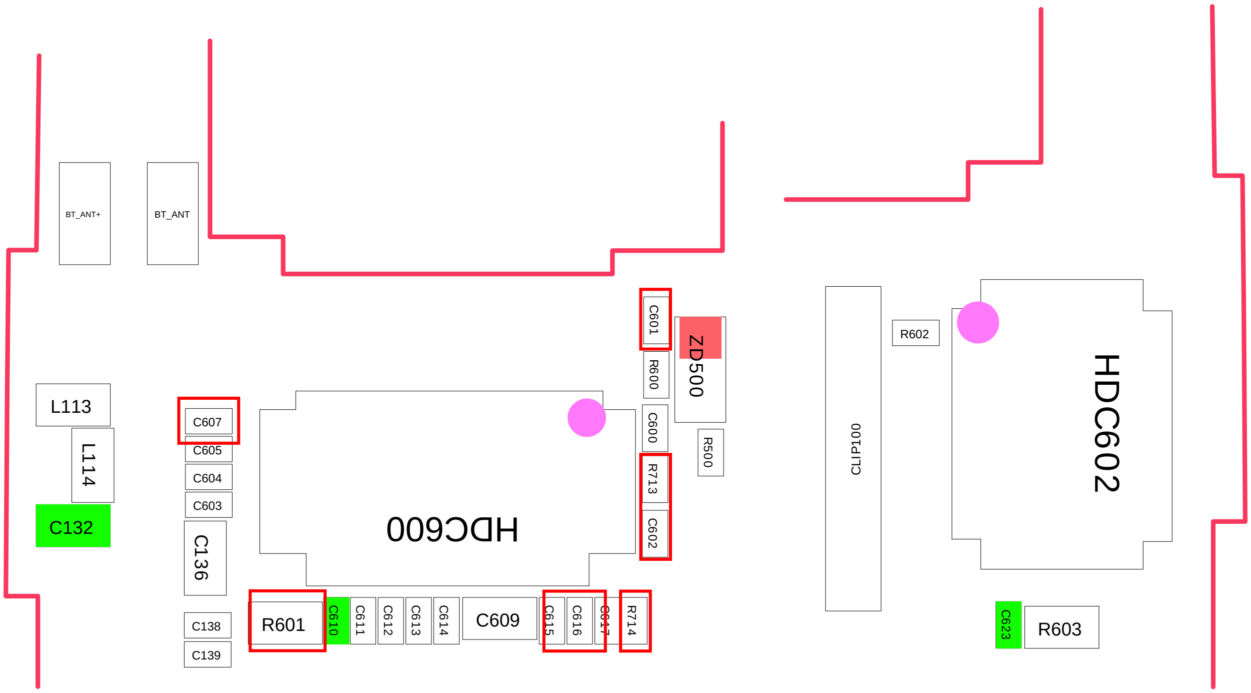
Problem #5

Check the Camera Signal

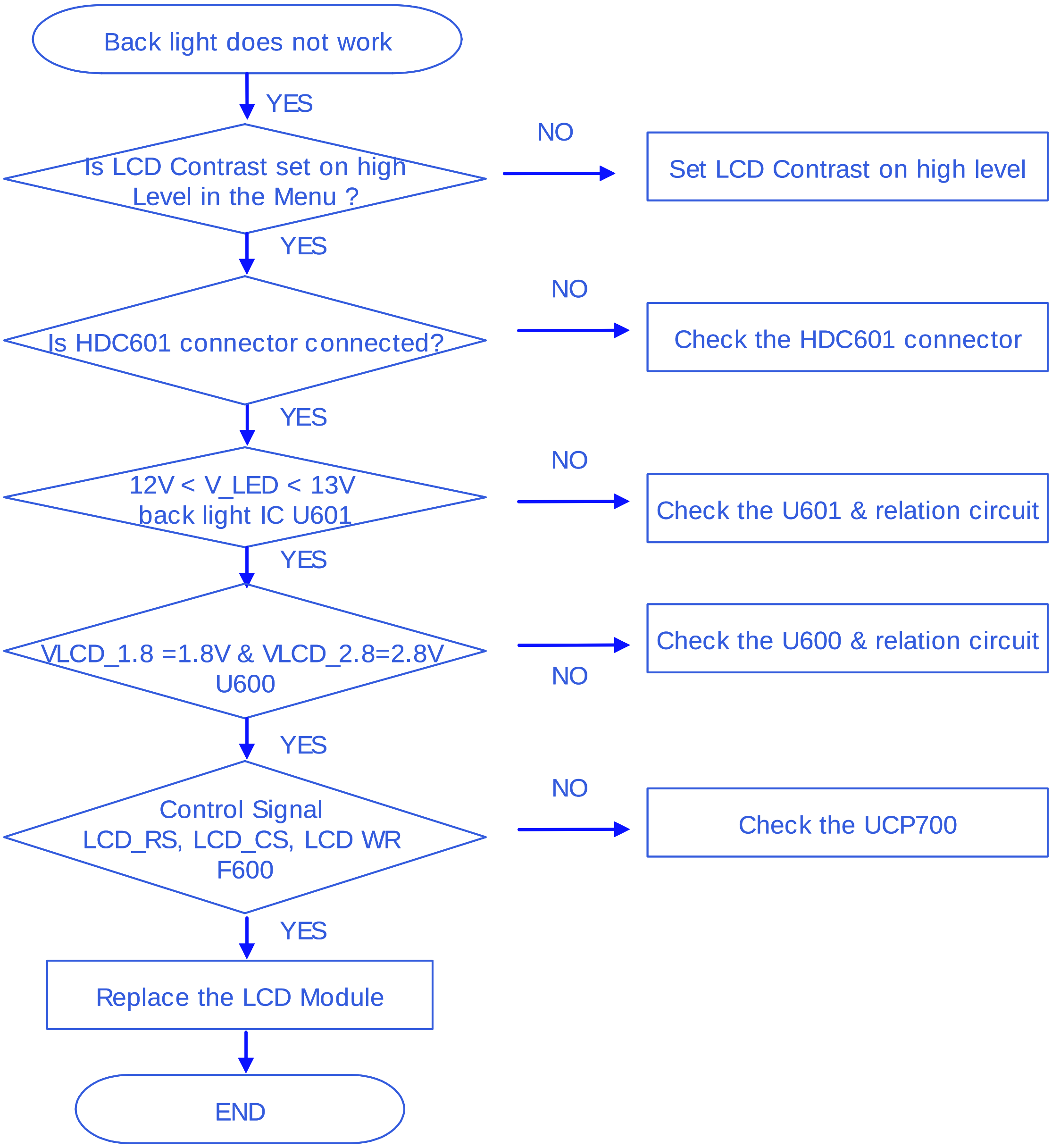
CAM_MEGA_SCL : R714

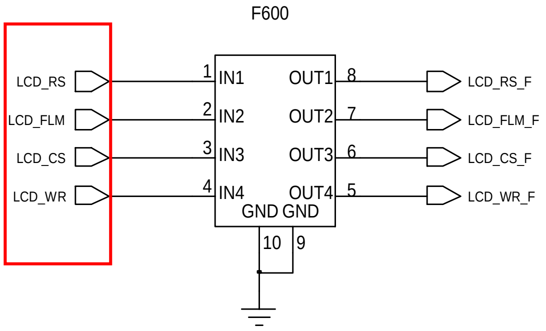
CAM_MEGA_SDA : R713

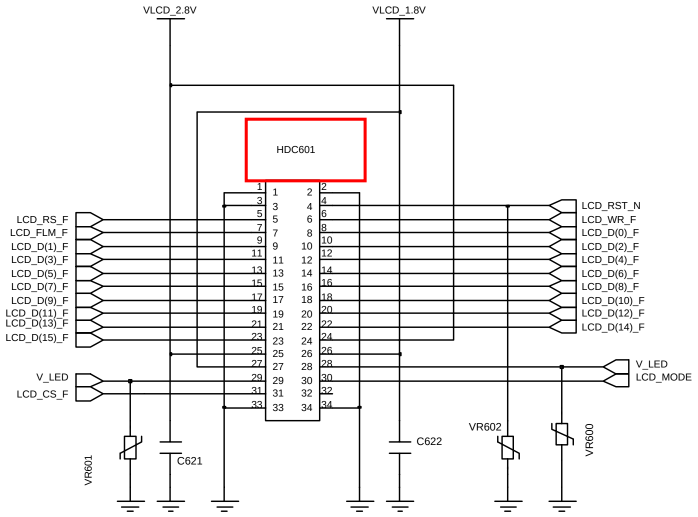

SCL
SDA
10.0 µs/

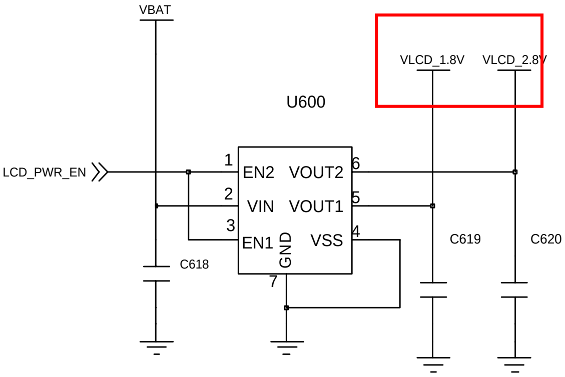

BT_ANT+
BT_ANT
L113
L114
C132
C607
C605
C604
C603
C136
C138
C139
HDC600
R601
C610
C611
C612
C613
C614
C609
C615
C616
C617
R714
C601
R600
C600
R713
C602
ZD500
R500
CLIP100
R602
HDC602
C623
R603

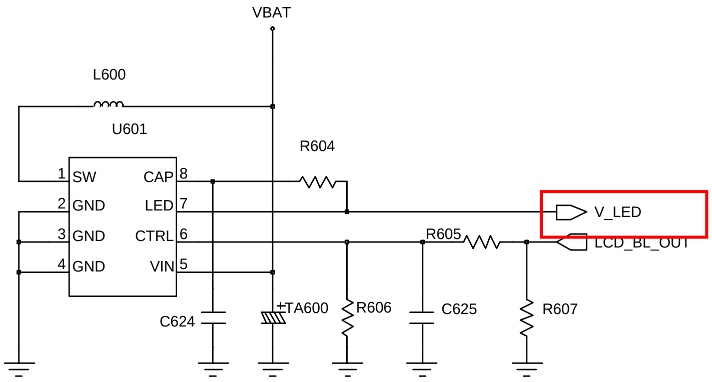
10-1-9. LCD

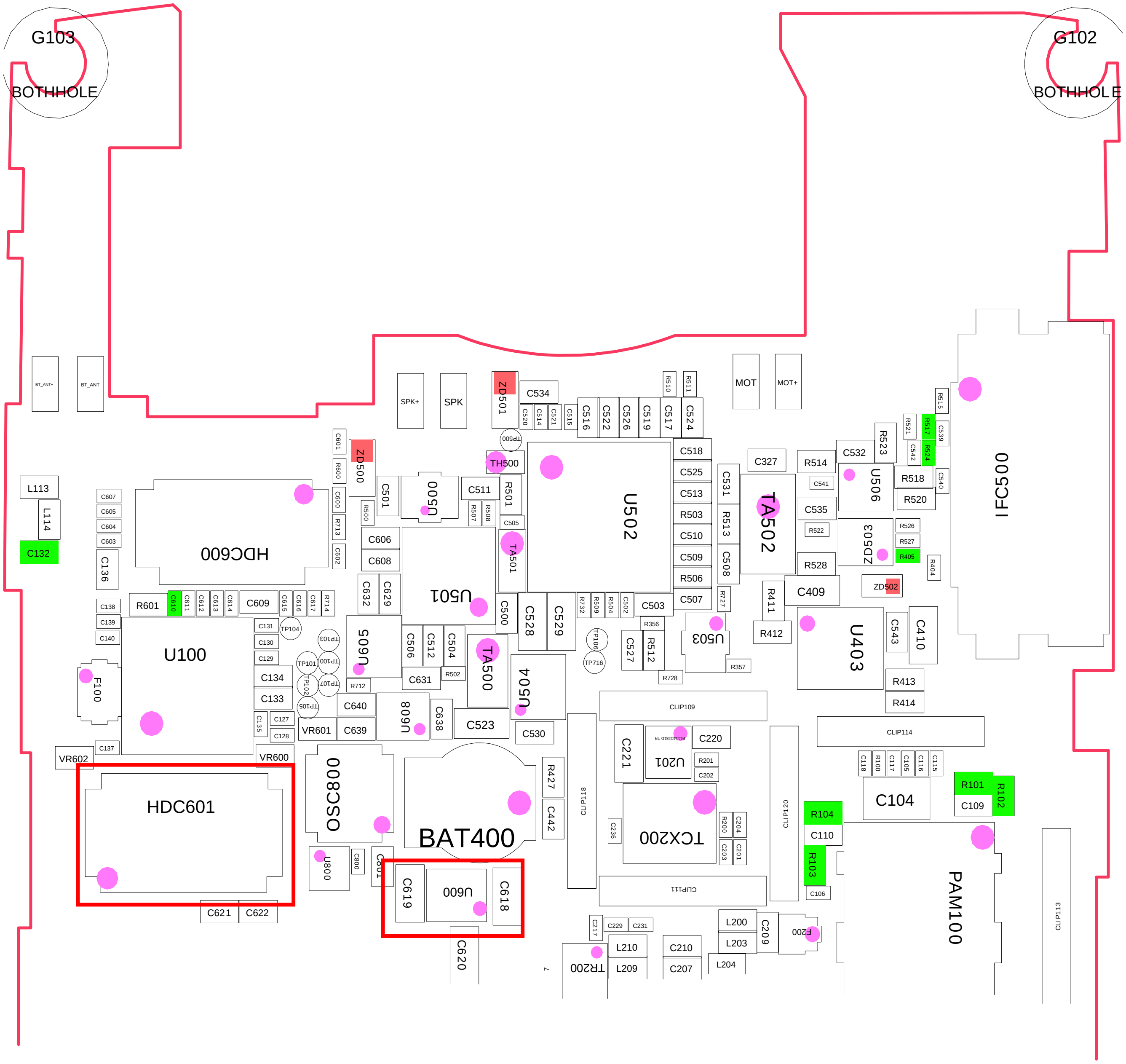

Back light does not work
YES
Is LCD Contrast set on high Level in the Menu ?
NO
Set LCD Contrast on high level
YES
Is HDC601 connector connected?
NO
Check the HDC601 connector
YES
12V < V_LED < 13V back light IC U601
NO
Check the U601 & relation circuit
YES
VLCD_1.8 =1.8V & VLCD_2.8=2.8V U600
NO
Check the U600 & relation circuit
YES
Control Signal LCD_RS, LCD_CS, LCD WR F600
NO
Check the UCP700
YES
Replace the LCD Module
END

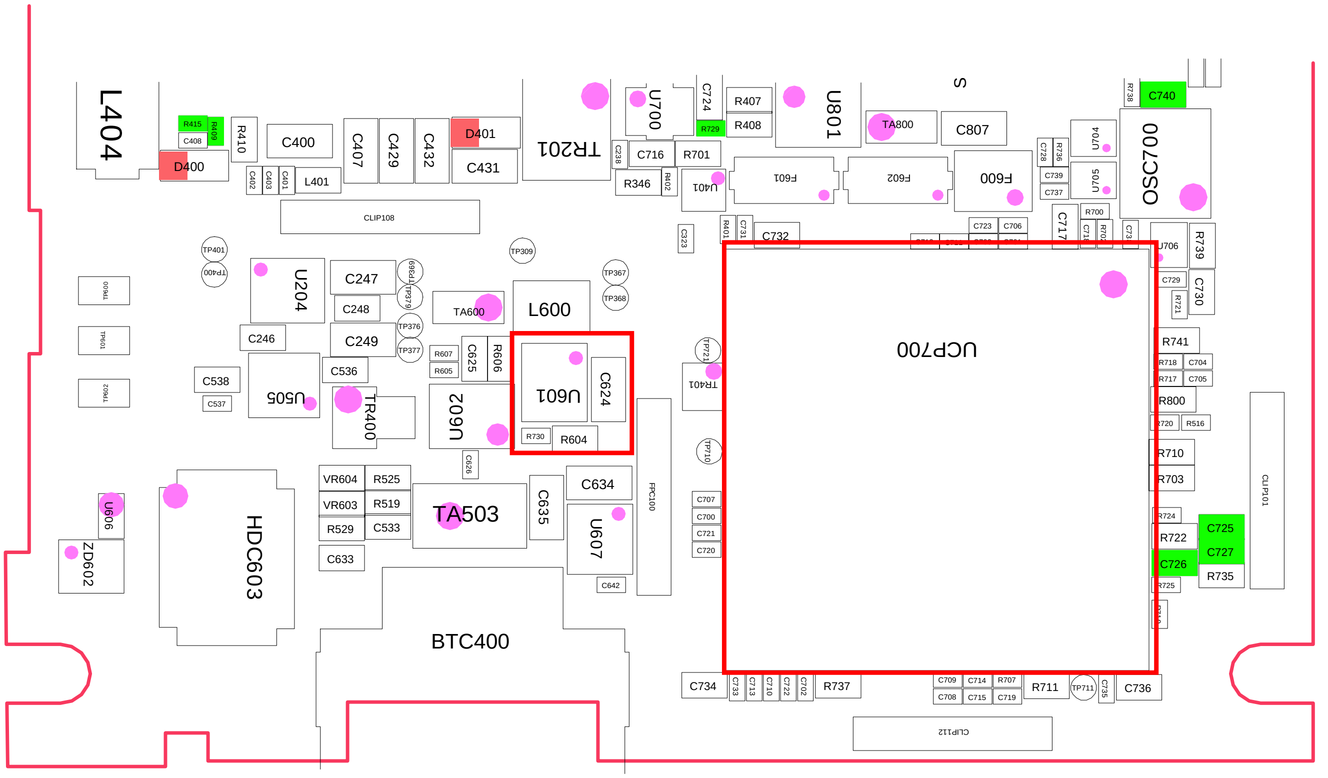

F600
LCD_RS
LCD_FLM
LCD_CS
LCD_WR
1 IN1
2 IN2
3 IN3
4 IN4
OUT1 8
OUT2 7
OUT3 6
OUT4 5
GND GND
10
9
LCD_RS_F
LCD_FLM_F
LCD_CS_F
LCD_WR_F


VLCD_2.8V
VLCD_1.8V
HDC601
LCD_RS_F
LCD_FLM_F
LCD_D(1)_F
LCD_D(3)_F
LCD_D(5)_F
LCD_D(7)_F
LCD_D(9)_F
LCD_D(11)_F
LCD_D(13)_F
LCD_D(15)_F
V_LED
LCD_CS_F
LCD_RST_N
LCD_WR_F
LCD_D(0)_F
LCD_D(2)_F
LCD_D(4)_F
LCD_D(6)_F
LCD_D(8)_F
LCD_D(10)_F
LCD_D(12)_F
LCD_D(14)_F
V_LED
LCD_MODE
VR601
C621
C622
VR602
VR600


VBAT
VLCD_1.8V
VLCD_2.8V
U600
LCD_PWR_EN
1 EN2
2 VIN
3 EN1
GND 7
VOUT2 6
VOUT1 5
VSS 4
C618
C619
C620

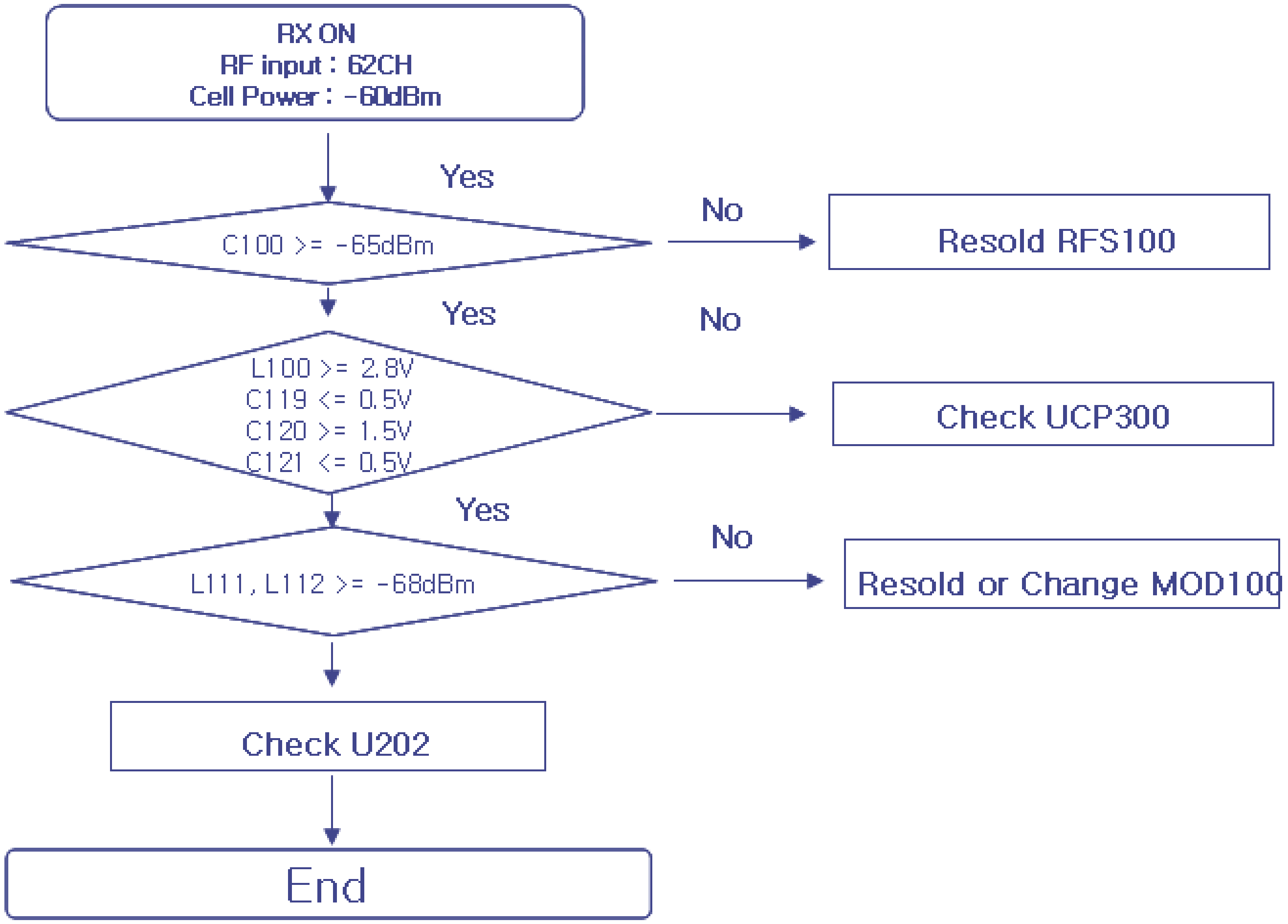

VBAT
L600
U601
R604
1 SW
2 GND
3 GND
4 GND
CAP 8
LED 7
CTRL 6
VIN 5
V_LED
R605
LCD_BL_OUT
C624
TA600
R606
C625
R607


G103
BOTHHOLE
G102
BOTHHOLE
BT_ANT+
BT_ANT
SPK+
SPK
ZD501
C534
C520
C514
C521
C515
C516
C522
C526
C519
C517
C524
R510
R511
MOT
MOT+
R515
R521
R517
C539
C542
R524
C540
IFC500
TP500
TH500
C601
ZD500
R600
C600
R713
C602
C501
U500
R500
C511
R501
R507
R508
C505
TA501
U502
C518
C525
C513
R503
C510
C509
R506
C507
C531
R513
C508
TA502
C327
R514
C532
R523
C541
U506
R518
R520
C535
R522
U505
R526
R527
R405
R404
R528
ZD502
L113
L114
C132
C607
C605
C604
C603
C136
HDC600
C606
C608
C632
C629
U501
C500
C528
C529
R732
R509
R504
C502
C503
C727
R411
C409
C138
R601
C610
C611
C612
C613
C614
C609
C615
C616
C617
R714
C139
C140
U100
C131
TP104
C130
C129
TP103
TP100
TP101
TP102
TP107
TP105
C134
C133
C135
C127
C128
U605
C506
C512
C504
TA500
TP106
TP716
C527
R512
R356
U503
R357
R412
U403
C543
C410
F100
C631
R502
R712
R728
U504
R413
R414
C640
C639
U608
C638
C523
C530
CLIP109
CLIP114
C221
C220
U201
R201
C202
C118
R100
C117
C105
C116
C115
R101
R102
C109
C104
VR602
C137
VR601
VR600
OSC800
BAT400
R427
C442
CLIP118
C236
TCX200
R200
C204
C203
C201
CLIP120
R104
C110
R103
C106
HDC601
U800
C800
C801
C619
U600
C618
CLIP111
PAM100
CLIP113
C621
C622
C620
C217
C229
C231
L210
L209
C210
C207
L200
L203
L204
C209
F200
TR200

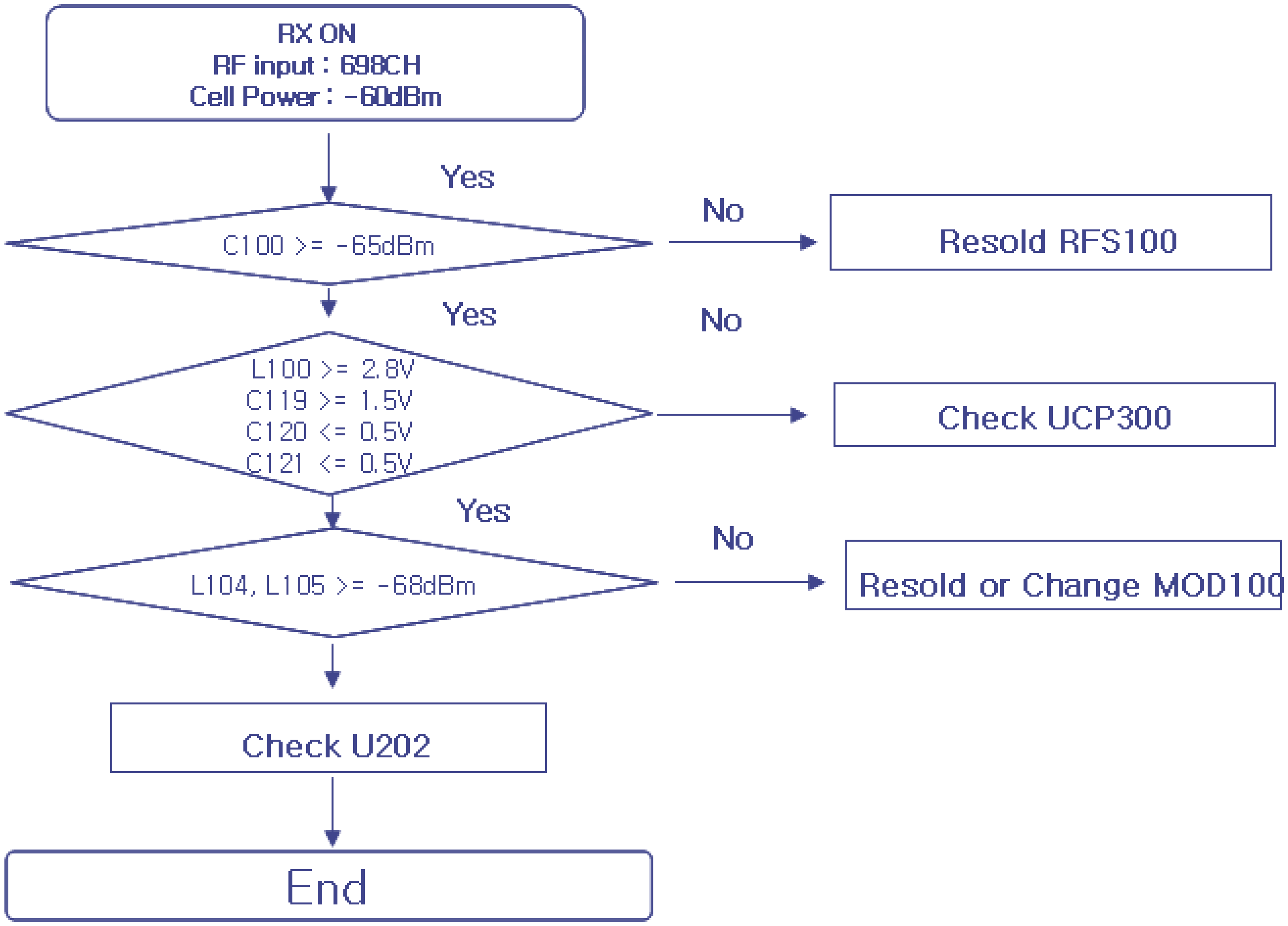

L404
R415
R409
C408
D400
R410
C400
C402
C403
C401
L401
C407
C429
C432
D401
C431
TR201
CLIP108
U700
C724
R729
R407
R408
U801
TA800
C807
S
R738
C740
C238
C716
R701
R346
R402
U401
F601
F602
F600
C728
R736
U704
C739
C737
U705
OSC700
C323
R401
C731
C732
C723
C706
C717
R700
C718
R702
C73
U706
R739
TP401
TP400
U204
C247
TP369
TP379
TP309
TP367
TP368
TP600
TP601
TP602
C248
TA600
L600
C246
C249
TP376
TP377
R607
R605
C625
R606
U601
C624
TP721
TR401
UCP700
C729
C730
R721
R741
R718
C704
R717
C705
R800
R720
R516
C538
C537
U505
C536
TR400
U602
R730
R604
TP710
FPC100
C626
R710
R703
CLIP101
U606
ZD602
HDC603
VR604
R525
VR603
R519
R529
C533
C633
TA503
C635
C634
U607
C642
C707
C700
C721
C720
R724
R722
C725
C727
C726
R735
R725
BTC400
C734
C733
C713
C710
C722
C702
R737
C709
C714
R707
C708
C715
C719
R711
TP711
C735
C736
CLIP112

10-2.RF

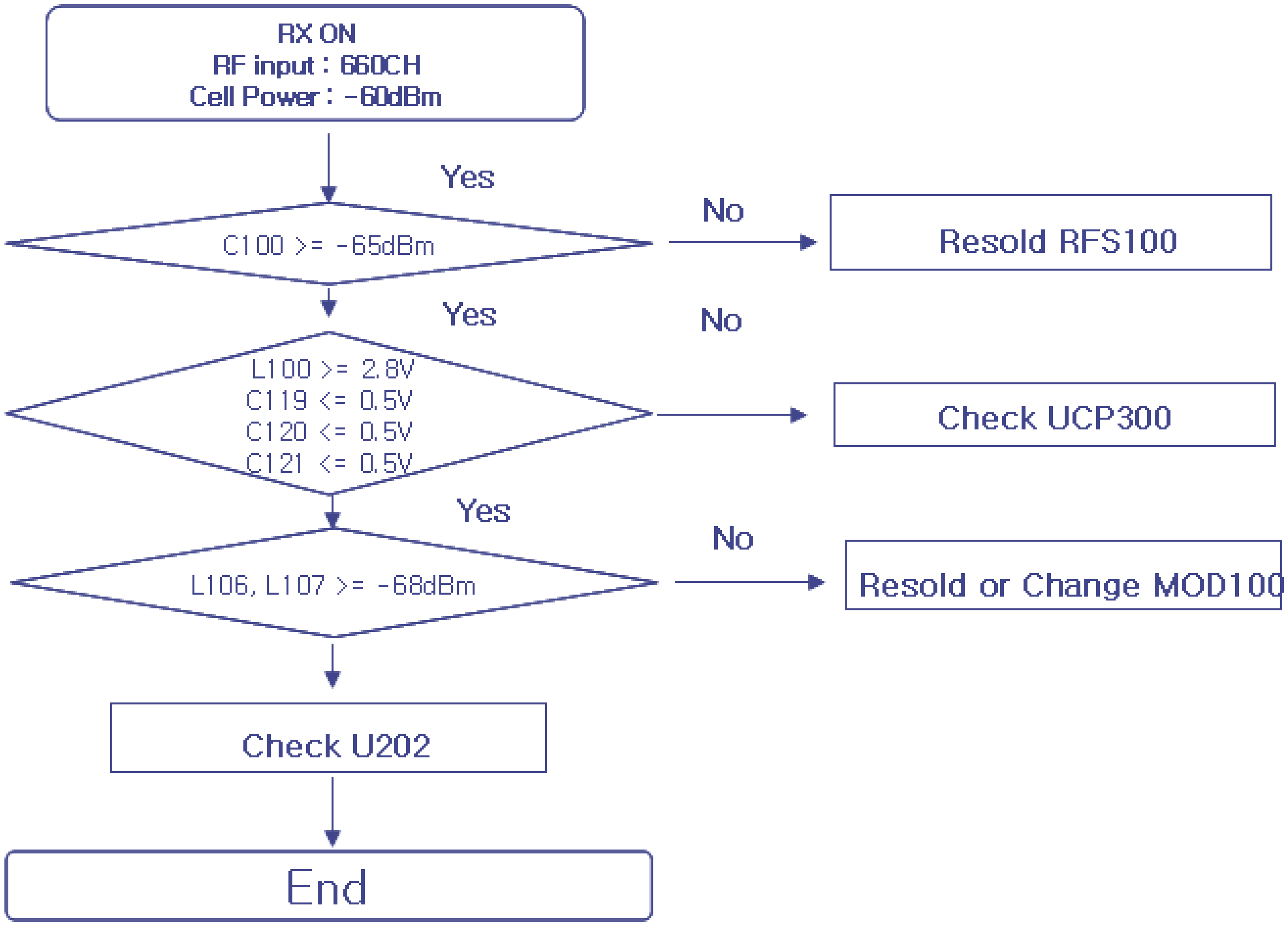
10-2-1. EGSM Rx

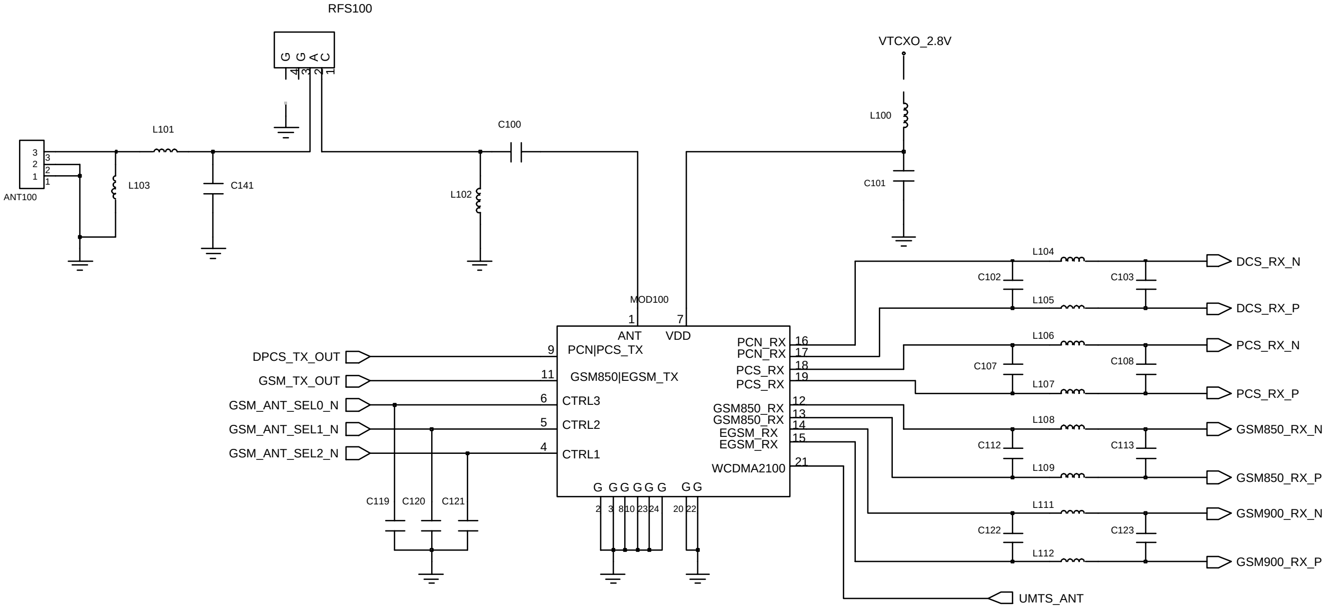

RX ON
RF input : 62CH
Cell Power : -60dBm
Yes
C100 >= -65dBm
No
Resold RFS100
Yes
L100 >= 2.8V
C119 <= 0.5V
C120 >= 1.5V
C121 <= 0.5V
No
Check UCP300
Yes
L111, L112 >= -68dBm
No
Resold or Change MOD100
Check U202
End

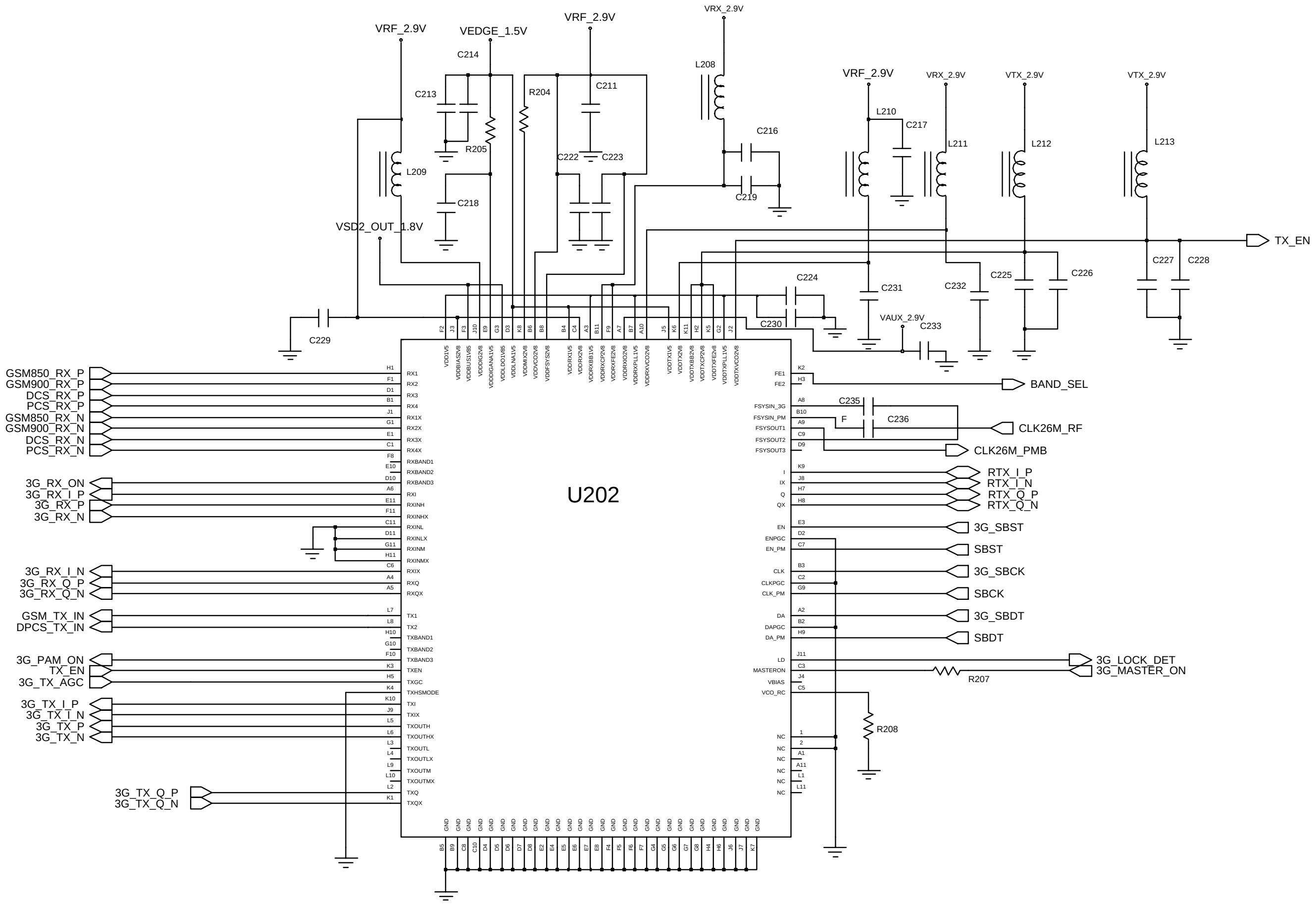
10-2-2. DCS Rx

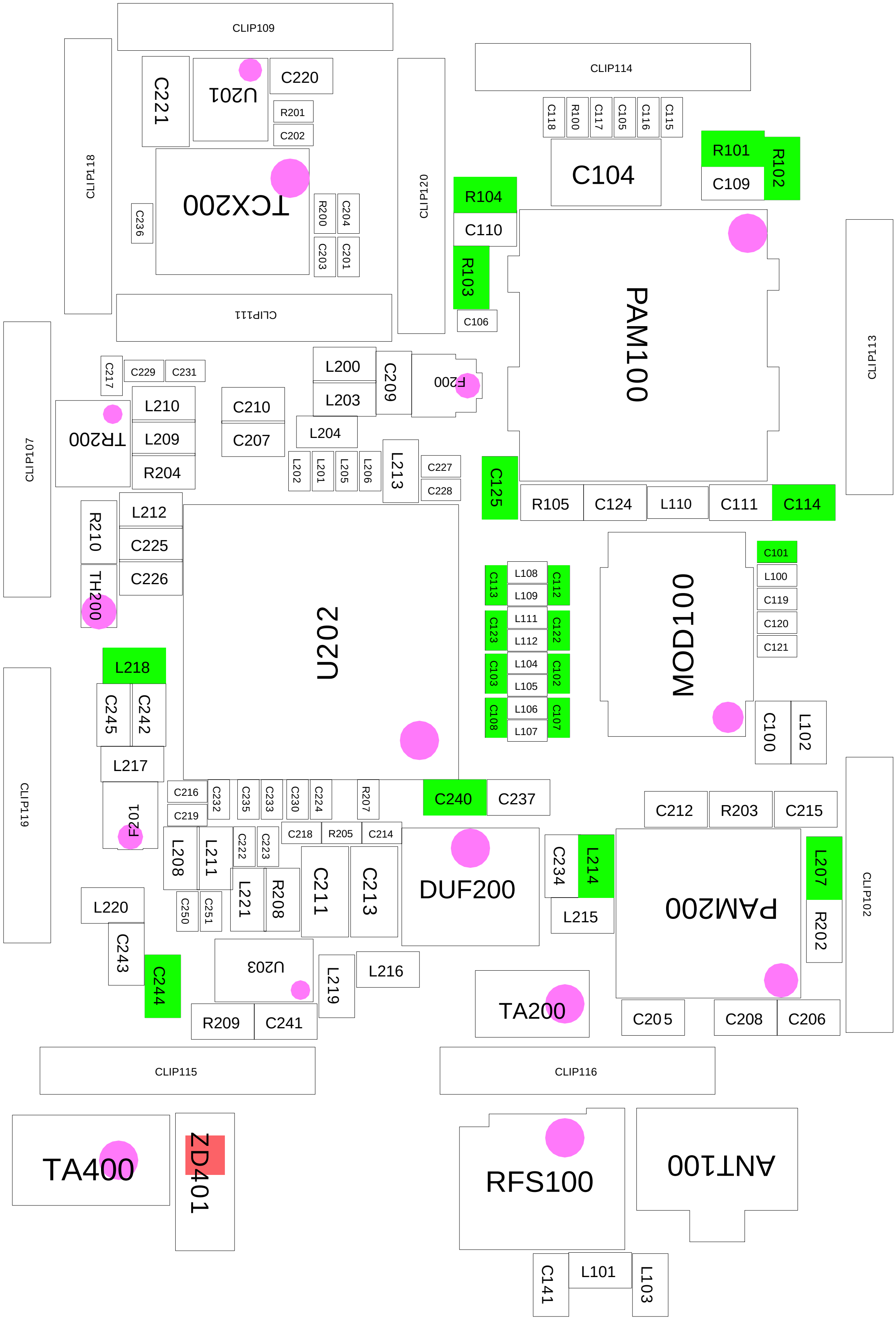

RX ON
RF input : 698CH
Cell Power : -60dBm
Yes
C100 >= -65dBm
No
Resold RFS100
Yes
No
L100 >= 2.8V
C119 >= 1.5V
C120 <= 0.5V
C121 <= 0.5V
Check UCP300
Yes
No
L104, L105 >= -68dBm
Resold or Change MOD100
Check U202
End

10-2-3. PCS Rx

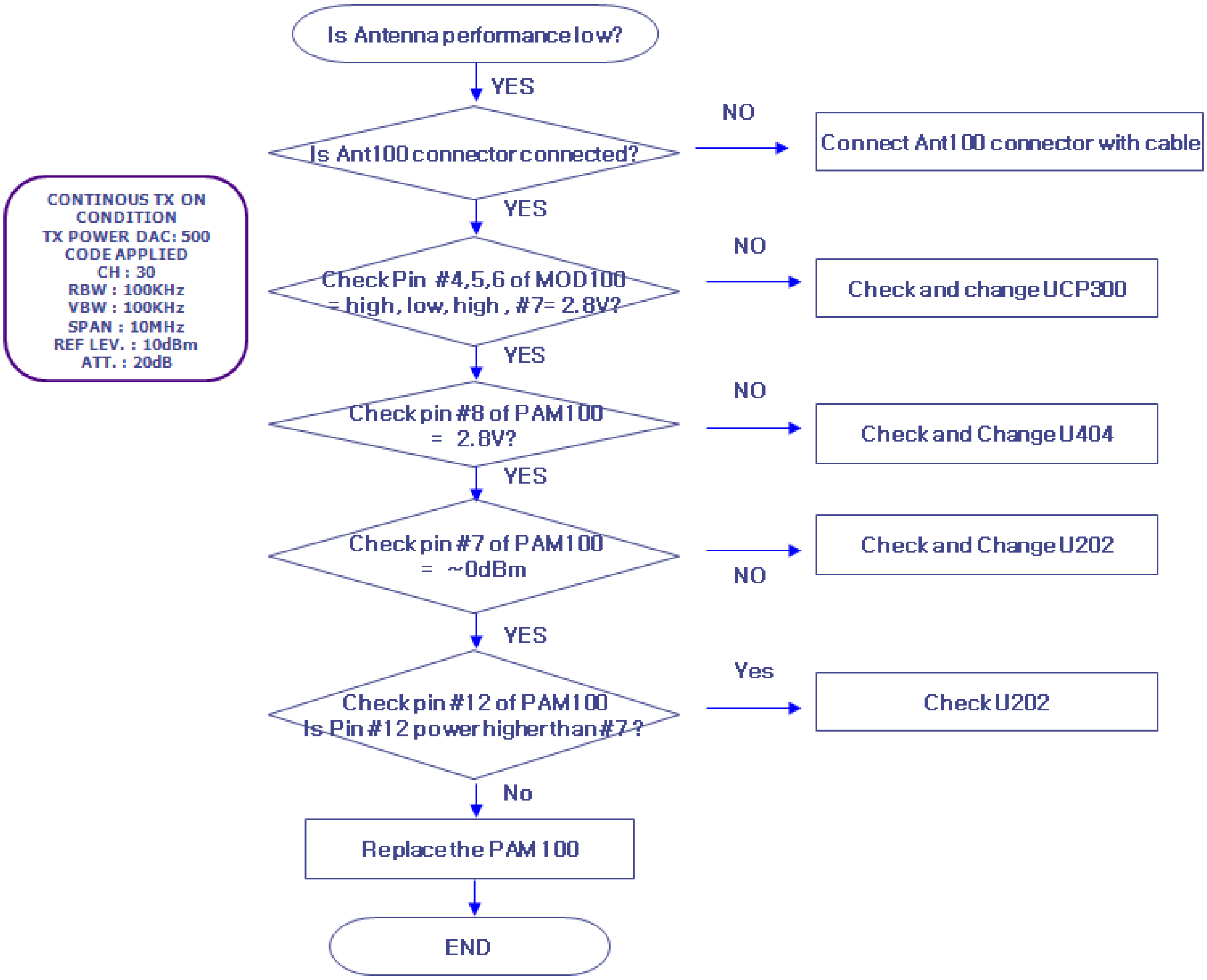

RX ON
RF input : 660CH
Cell Power : -60dBm
Yes
C100 >= -65dBm
No
Resold RFS100
Yes
No
L100 >= 2.8V
C119 <= 0.5V
C120 <= 0.5V
C121 <= 0.5V
Check UCP300
Yes
No
L106, L107 >= -68dBm
Resold or Change MOD100
Check U202
End


RFS100
G G A C
4 3 2 1
VTCXO_2.8V
L101
C100
L100
C101
ANT100
3 2 1
L103
C141
L102
MOD100
1 ANT
7 VDD
9 PCN|PCS_TX
11 GSM850|EGSM_TX
6 CTRL3
5 CTRL2
4 CTRL1
PCN_RX 16
PCN_RX 17
PCS_RX 18
PCS_RX 19
GSM850_RX 12
GSM850_RX 13
EGSM_RX 14
EGSM_RX 15
WCDMA2100 21
G G G G G G G G
2 3 8 10 23 24 20 22
DPCS_TX_OUT
GSM_TX_OUT
GSM_ANT_SEL0_N
GSM_ANT_SEL1_N
GSM_ANT_SEL2_N
C119
C120
C121
L104
C102
C103
DCS_RX_N
L105
DCS_RX_P
L106
PCS_RX_N
C107
C108
L107
PCS_RX_P
L108
GSM850_RX_N
C112
C113
L109
GSM850_RX_P
L111
GSM900_RX_N
C122
C123
L112
GSM900_RX_P
UMTS_ANT

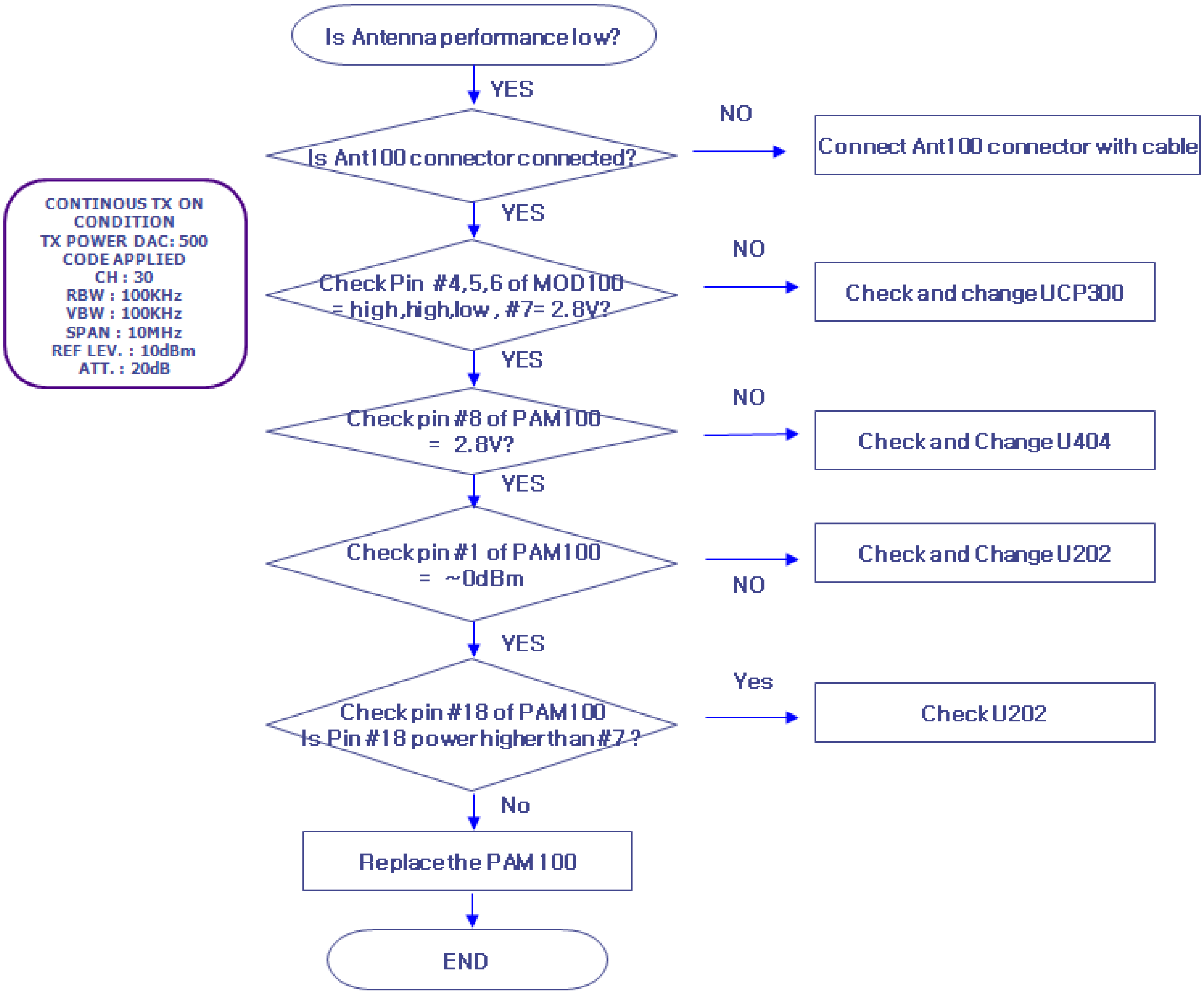

VRF_2.9V
VEDGE_1.5V
VRF_2.9V
VRX_2.9V
C214
C213
R204
C211
L208
R205
C222
C223
C216
C219
L209
C218
VSD2_OUT_1.8V
VRF_2.9V
VRX_2.9V
VTX_2.9V
VTX_2.9V
L210
C217
L211
L212
L213
TX_EN
C224
C231
C232
C225
C226
C227
C228
C230
VAUX_2.9V
C233
C229
F2 J3 F3 J10 E9 G3 D3 K8 B6 B8 B4 C4 A3 B11 F9 A7 B7 A10 J5 K6 K11 H2 K5 G2 J2
VDD1V5
VDDBIAS2V8
VDDBUS1V85
VDDDIG2V8
VDDDIGANA1V5
VDDLDO1V85
VDDLNA1V5
VDDMIX2V8
VDDVCO2V8
VDDFSYS2V8
VDDRX1V5
VDDRX2V8
VDDRXBB1V5
VDDRXCP2V8
VDDRXFE2V8
VDDRXIO2V8
VDDRXPLL1V5
VDDRXVCO2V8
VDDTX1V5
VDDTX2V8
VDDTXBB2V8
VDDTXCP2V8
VDDTXFE2V8
VDDTXPLL1V5
VDDTXVCO2V8
U202
GSM850_RX_P
GSM900_RX_P
DCS_RX_P
PCS_RX_P
GSM850_RX_N
GSM900_RX_N
DCS_RX_N
PCS_RX_N
3G_RX_ON
3G_RX_I_P
3G_RX_P
3G_RX_N
3G_RX_I_N
3G_RX_Q_P
3G_RX_Q_N
GSM_TX_IN
DPCS_TX_IN
3G_PAM_ON
TX_EN
3G_TX_AGC
3G_TX_I_P
3G_TX_I_N
3G_TX_P
3G_TX_N
3G_TX_Q_P
3G_TX_Q_N
H1 RX1
F1 RX2
D1 RX3
B1 RX4
J1 RX1X
G1 RX2X
E1 RX3X
C1 RX4X
F8 RXBAND1
E10 RXBAND2
D10 RXBAND3
A6 RXI
E11 RXINH
F11 RXINHX
C11 RXINL
D11 RXINLX
G11 RXINM
H11 RXINMX
C6 RXIX
A4 RXQ
A5 RXQX
L7 TX1
L8 TX2
H10 TXBAND1
G10 TXBAND2
F10 TXBAND3
K3 TXEN
H5 TXGC
K4 TXHSMODE
K10 TXI
J9 TXIX
L5 TXOUTH
L6 TXOUTHX
L3 TXOUTL
L4 TXOUTLX
L9 TXOUTM
L10 TXOUTMX
L2 TXQ
K1 TXQX
FE1 K2
FE2 H3
FSYSIN_3G A8
FSYSIN_PM B10
FSYSOUT1 A9
FSYSOUT2 C9
FSYSOUT3 D9
I K9
IX J8
Q H7
QX H8
EN E3
ENPGC D2
EN_PM C7
CLK B3
CLKPGC C2
CLK_PM G9
DA A2
DAPGC B2
DA_PM H9
LD J11
MASTERON C3
VBIAS J4
VCO_RC C5
NC 1
NC 2
NC A1
NC A11
NC L1
NC L11
GND
B5 B9 C8 C10 D4 D5 D6 D7 D8 E2 E4 E5 E6 E7 E8 F4 F5 F6 F7 G4 G5 G6 G7 G8 H4 H6 J6 J7 K7
BAND_SEL
C235
F
C236
CLK26M_RF
CLK26M_PMB
RTX_I_P
RTX_I_N
RTX_Q_P
RTX_Q_N
3G_SBST
SBST
3G_SBCK
SBCK
3G_SBDT
SBDT
3G_LOCK_DET
3G_MASTER_ON
R207
R208

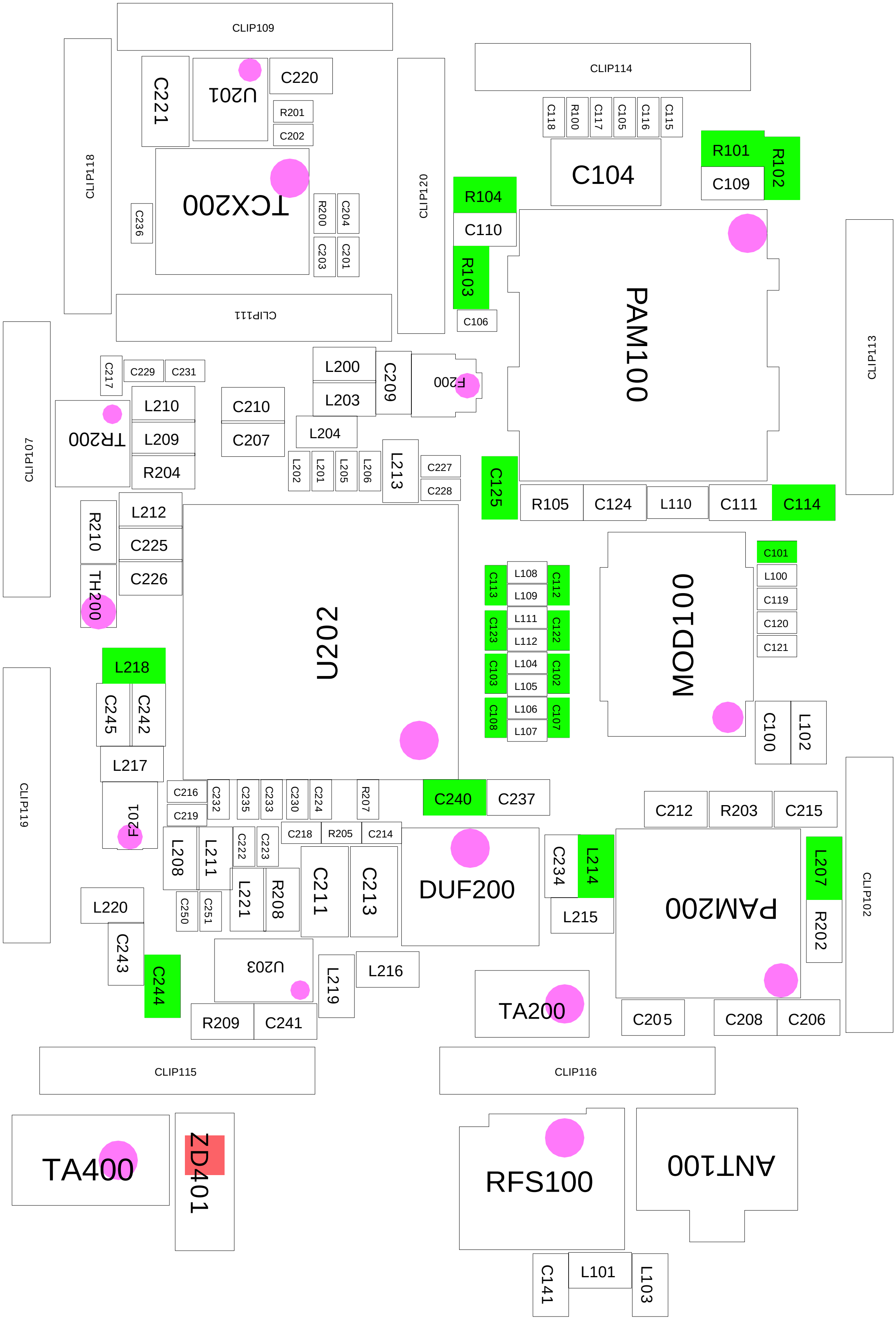

CLIP109
CLIP114
C221
U201
C220
R201
C202
CLIP118
C236
TCX200
R200
C204
C203
C201
CLIP120
C118
R100
C117
C105
C116
C115
C104
R101
R102
C109
R104
C110
R103
C106
PAM100
CLIP113
CLIP111
CLIP107
C217
C229
C231
L200
C209
F200
TR200
L210
L209
R204
C210
C207
L203
L204
L202
L201
L205
L206
L213
C227
C228
C125
R105
C124
L110
C111
C114
R210
L212
C225
TH200
C226
U202
C113
L108
L109
C112
C123
L111
L112
C122
C103
L104
L105
C102
C108
L106
L107
C107
MOD100
C101
L100
C119
C120
C121
C100
L102
CLIP119
L218
C245
C242
L217
F201
C216
C219
C232
C235
C233
C230
C224
R207
C240
C237
C212
R203
C215
L208
L211
C222
C223
C218
R205
C214
DUF200
C234
L214
PAM200
L207
R202
CLIP102
L220
C250
C251
L221
R208
C211
C213
L215
C243
C244
U203
L219
L216
TA200
C205
C208
C206
R209
C241
CLIP115
CLIP116
TA400
ZD401
RFS100
ANT100
C141
L101
L103

10-2-4. EGSM Tx

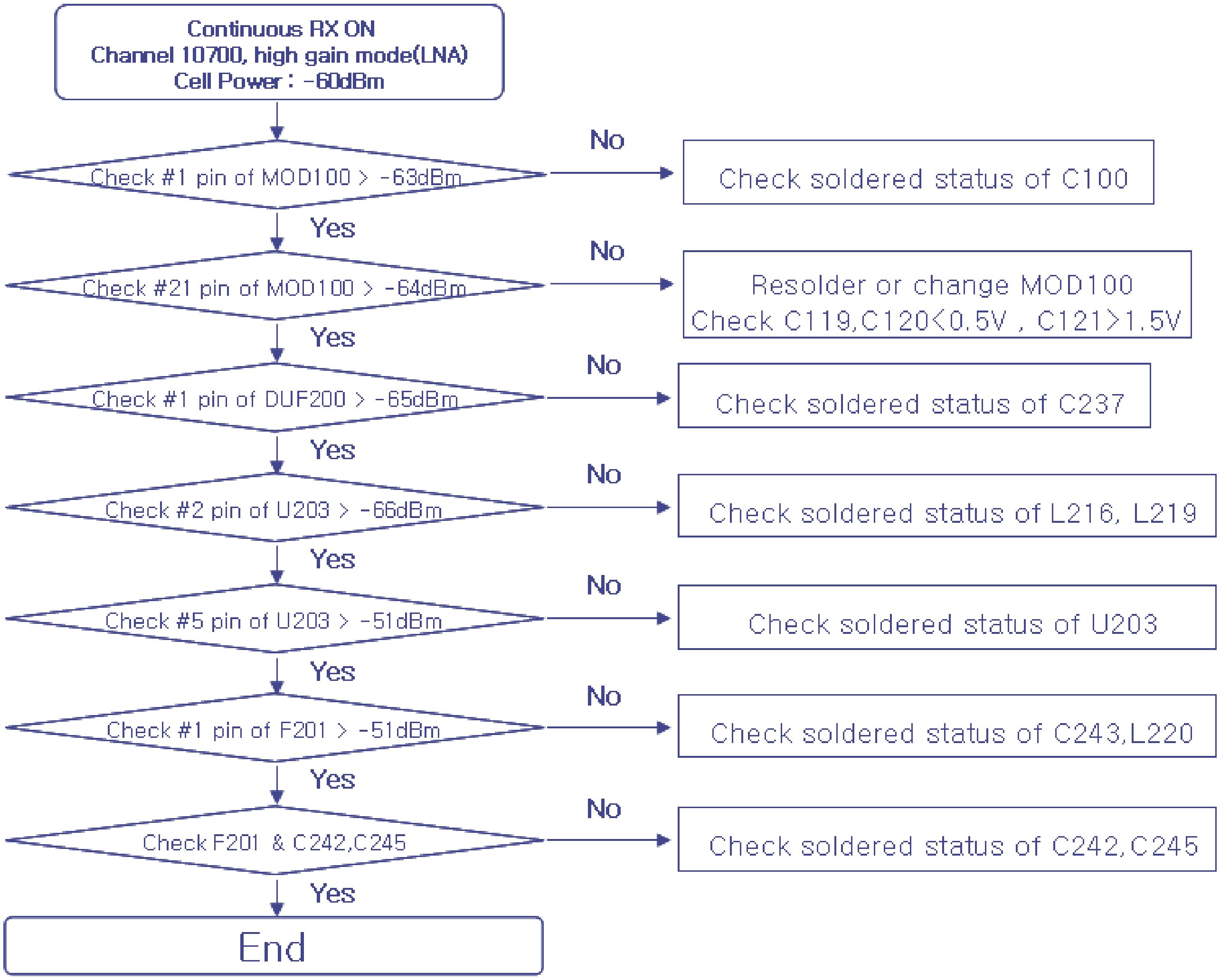

Is Antenna performance low?
YES
Is Ant100 connector connected?
NO
Connect Ant100 connector with cable
YES
CONTINOUS TX ON CONDITION
TX POWER DAC: 500
CODE APPLIED
CH : 30
RBW : 100KHz
VBW : 100KHz
SPAN : 10MHz
REF LEV. : 10dBm
ATT. : 20dB
Check Pin #4,5,6 of MOD100 = high, low, high , #7= 2.8V?
NO
Check and change UCP300
YES
Check pin #8 of PAM100 = 2.8V?
NO
Check and Change U404
YES
Check pin #7 of PAM100 = ~0dBm
NO
Check and Change U202
YES
Check pin #12 of PAM100 Is Pin #12 power higher than #7 ?
Yes
Check U202
No
Replace the PAM 100
END

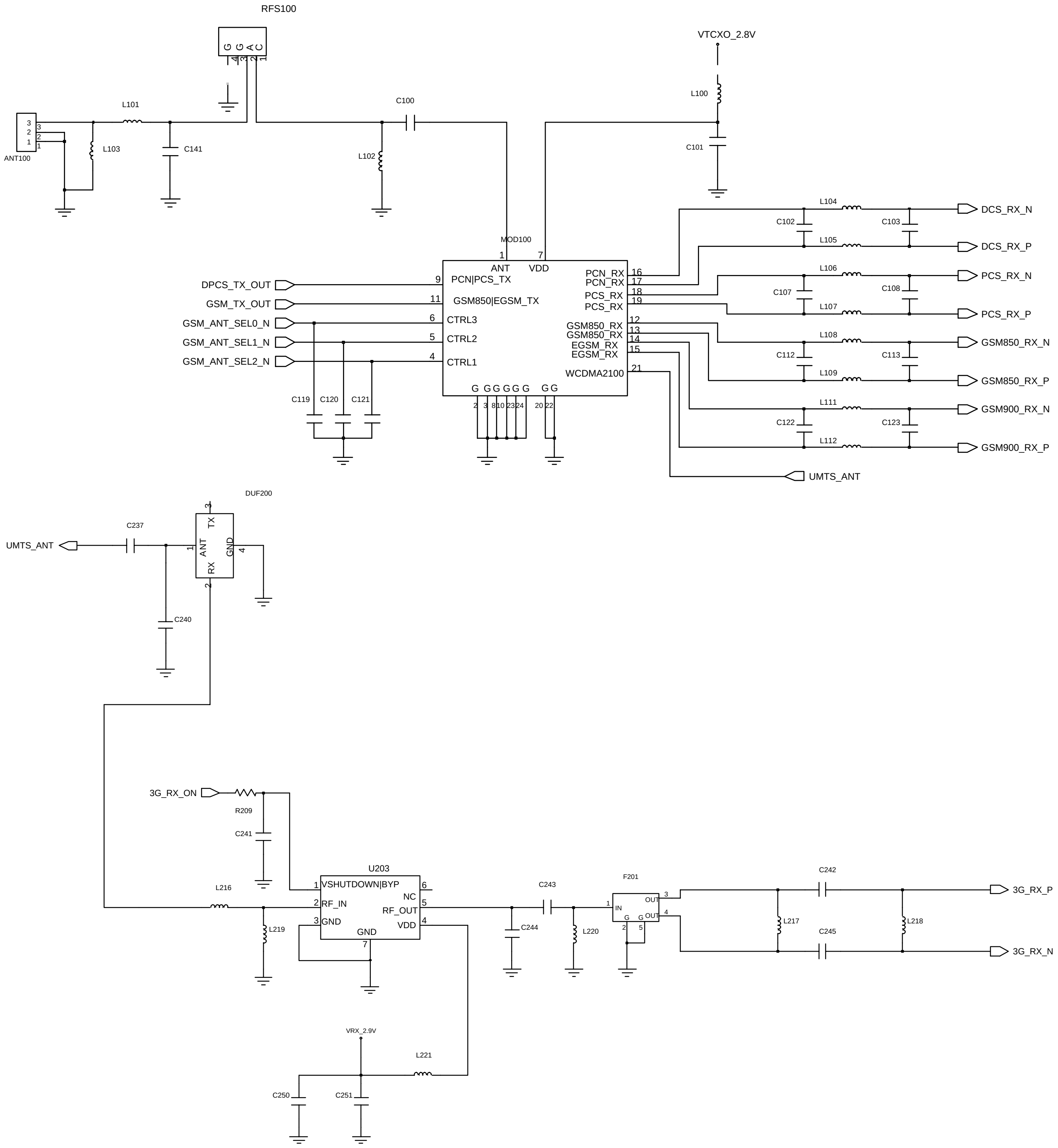
10-2-5. DCS & PCS Tx


Is Antenna performance low?
YES
Is Ant100 connector connected?
NO
Connect Ant100 connector with cable
YES
CONTINOUS TX ON CONDITION
TX POWER DAC: 500
CODE APPLIED
CH : 30
RBW : 100KHz
VBW : 100KHz
SPAN : 10MHz
REF LEV. : 10dBm
ATT. : 20dB
Check Pin #4,5,6 of MOD100 = high,high,low , #7= 2.8V?
NO
Check and change UCP300
YES
Check pin #8 of PAM100 = 2.8V?
NO
Check and Change U404
YES
Check pin #1 of PAM100 = ~0dBm
NO
Check and Change U202
YES
Check pin #18 of PAM100
Is Pin #18 power higher than #7 ?
Yes
Check U202
No
Replace the PAM 100
END

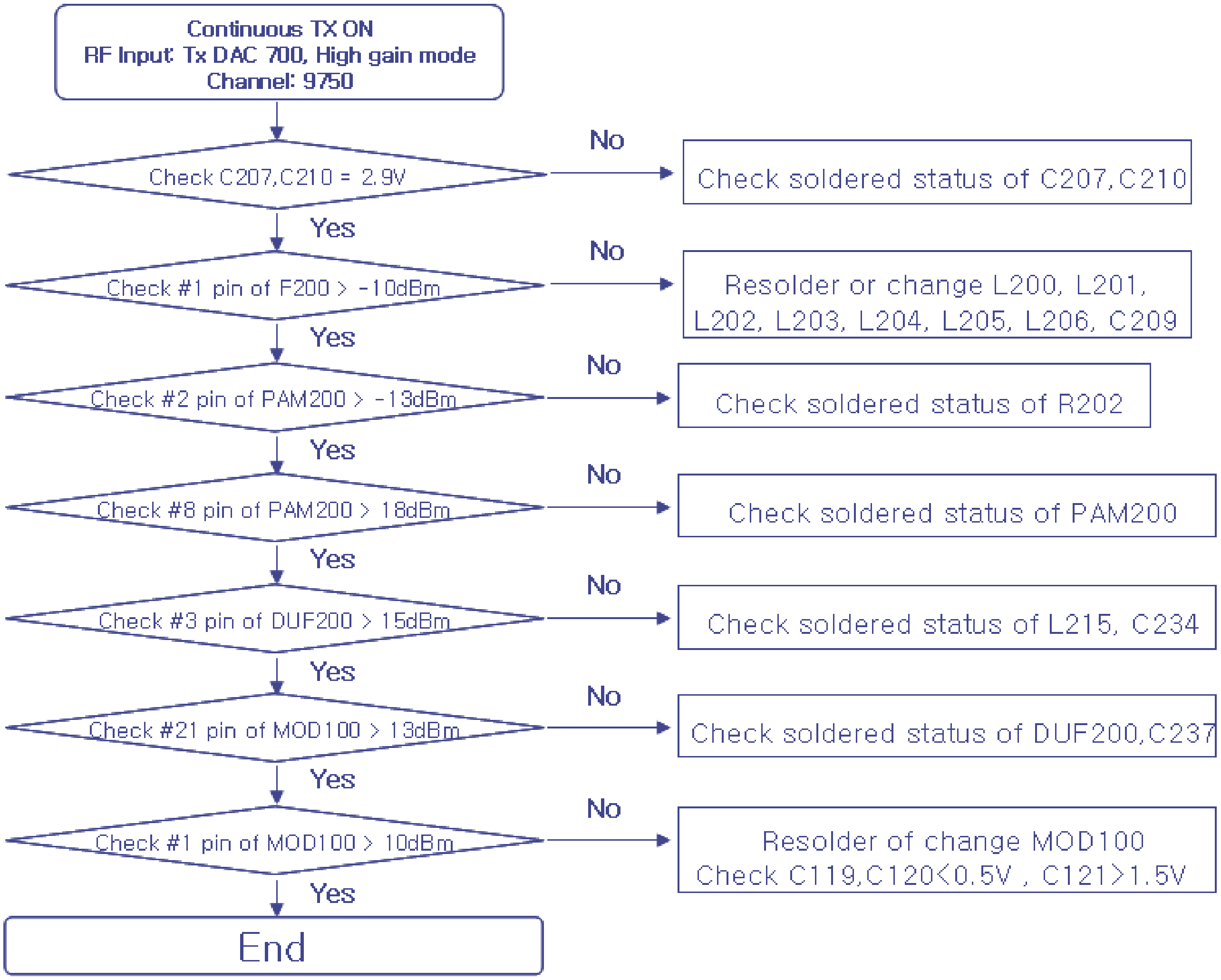

CLIP109
CLIP118
C221
U201
C220
R201
C202
TCX200
R200
C204
C203
C201
C236
CLIP120
CLIP111
CLIP114
C118
R100
C117
C105
C116
C115
C104
R101
R102
C109
R104
C110
R103
C106
PAM100
CLIP113
CLIP107
C217
C229
C231
L200
L203
C209
F200
TR200
L210
L209
R204
C210
C207
L204
L202
L201
L205
L206
L213
C227
C228
C125
R105
C124
L110
C111
C114
R210
L212
C225
C226
TH200
U202
C113
L108
L109
C112
C123
L111
L112
C122
C103
L104
L105
C102
C108
L106
L107
C107
MOD100
C101
L100
C119
C120
C121
C100
L102
CLIP119
L218
C245
C242
L217
F201
C216
C219
C232
C235
C233
C230
C224
R207
C240
C237
C212
R203
C215
CLIP102
C218
R205
C214
L208
L211
C222
C223
L221
R208
C211
C213
DUF200
C234
L214
L215
PAM200
L207
R202
L220
C250
C251
C243
C244
U203
L219
L216
TA200
R209
C241
C205
C208
C206
CLIP115
CLIP116
TA400
ZD401
RFS100
ANT100
C141
L101
L103

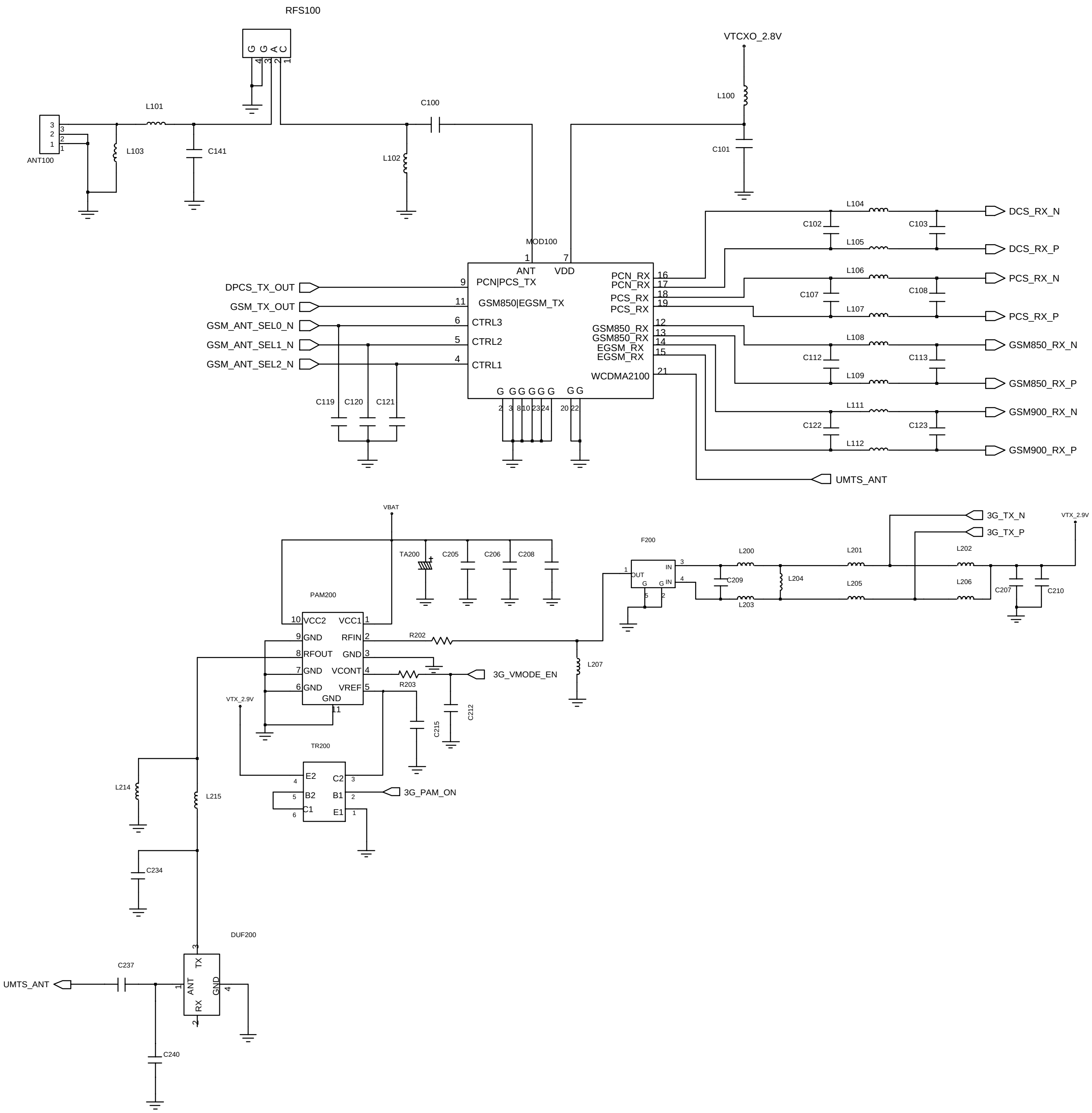
10-2-6. WCDMA Rx


Continuous RX ON
Channel 10700, high gain mode(LNA)
Cell Power : -60dBm
Check #1 pin of MOD100 > -63dBm
No
Check soldered status of C100
Yes
Check #21 pin of MOD100 > -64dBm
No
Resolder or change MOD100
Check C119,C120<0.5V , C121>1.5V
Yes
Check #1 pin of DUF200 > -65dBm
No
Check soldered status of C237
Yes
Check #2 pin of U203 > -66dBm
No
Check soldered status of L216, L219
Yes
Check #5 pin of U203 > -51dBm
No
Check soldered status of U203
Yes
Check #1 pin of F201 > -51dBm
No
Check soldered status of C243,L220
Yes
Check F201 & C242,C245
No
Check soldered status of C242,C245
Yes
End

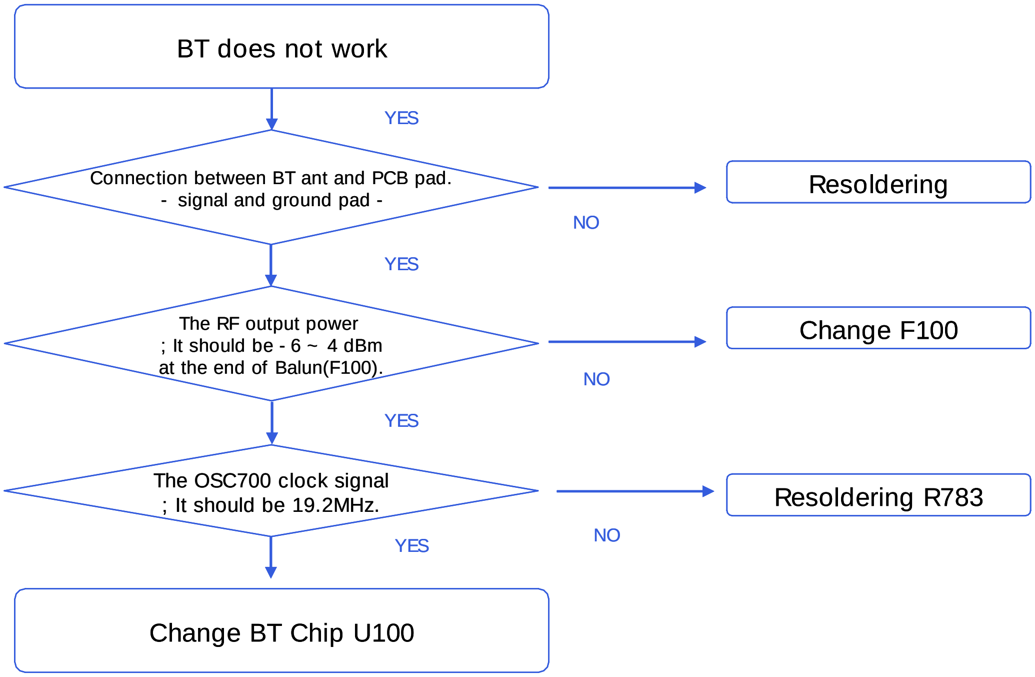

RFS100
G G A C
4 3 2 1
VTCXO_2.8V
L101
L100
C100
ANT100
3
2
1
L103
C141
L102
C101
L104
DCS_RX_N
C102
C103
L105
DCS_RX_P
MOD100
1
7
ANT
VDD
DPCS_TX_OUT
9
PCN|PCS_TX
PCN_RX
16
PCN_RX
17
L106
PCS_RX_N
C107
C108
GSM_TX_OUT
11
GSM850|EGSM_TX
PCS_RX
18
PCS_RX
19
L107
PCS_RX_P
GSM_ANT_SEL0_N
6
CTRL3
GSM850_RX
12
GSM850_RX
13
L108
GSM850_RX_N
GSM_ANT_SEL1_N
5
CTRL2
EGSM_RX
14
EGSM_RX
15
C112
C113
GSM_ANT_SEL2_N
4
CTRL1
WCDMA2100
21
L109
GSM850_RX_P
C119
C120
C121
G G G G G G G G
2 3 8 10 23 24 20 22
L111
GSM900_RX_N
C122
C123
L112
GSM900_RX_P
UMTS_ANT
DUF200
3
TX
C237
UMTS_ANT
1
ANT
GND
4
RX
2
C240
3G_RX_ON
R209
C241
U203
L216
1 VSHUTDOWN|BYP 6
NC
2 RF_IN
RF_OUT 5
3 GND
VDD 4
GND
7
L219
C243
F201
1 IN
OUT 3
OUT 4
G G
2 5
C244
L220
C242
3G_RX_P
L217
L218
C245
3G_RX_N
VRX_2.9V
L221
C250
C251

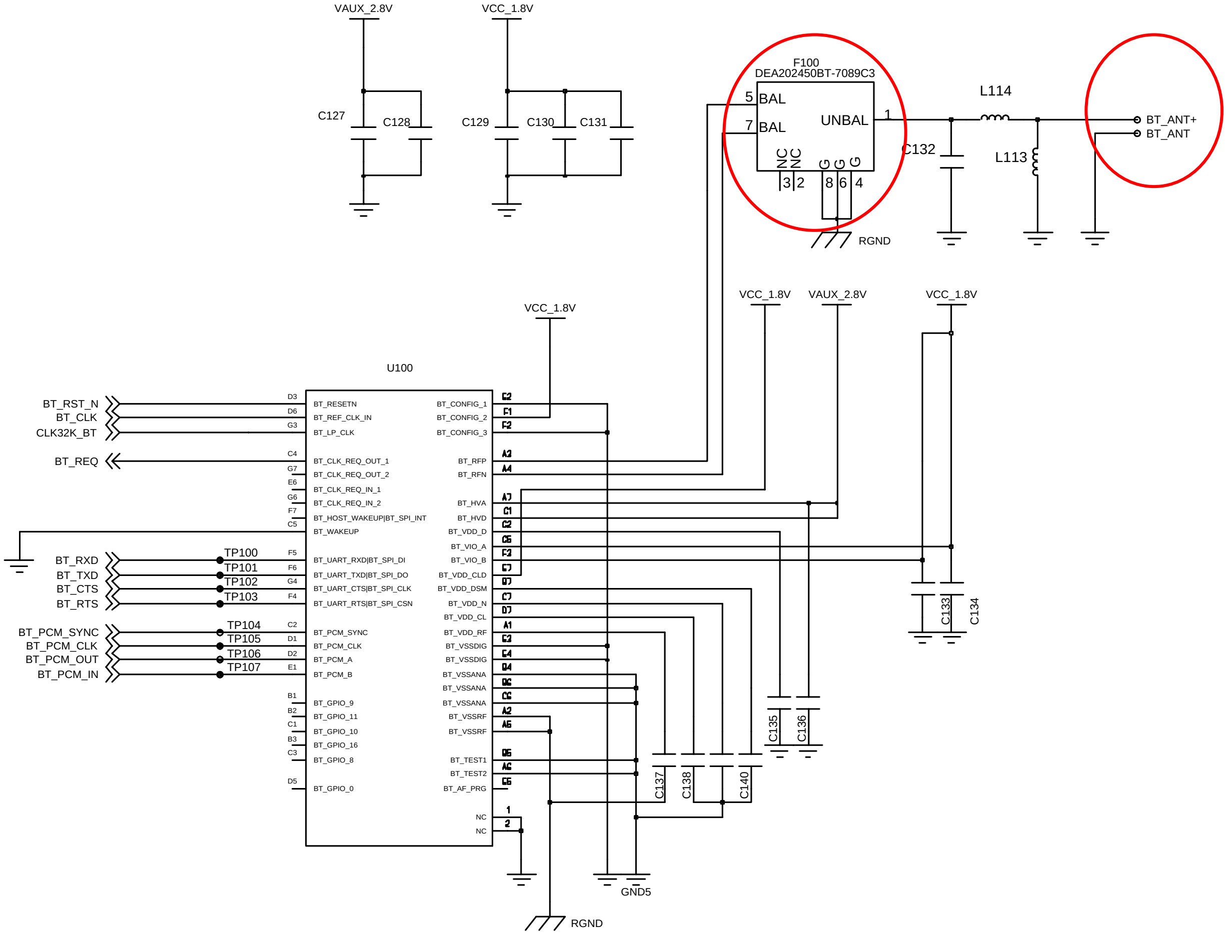
10-2-7. WCDMA Tx

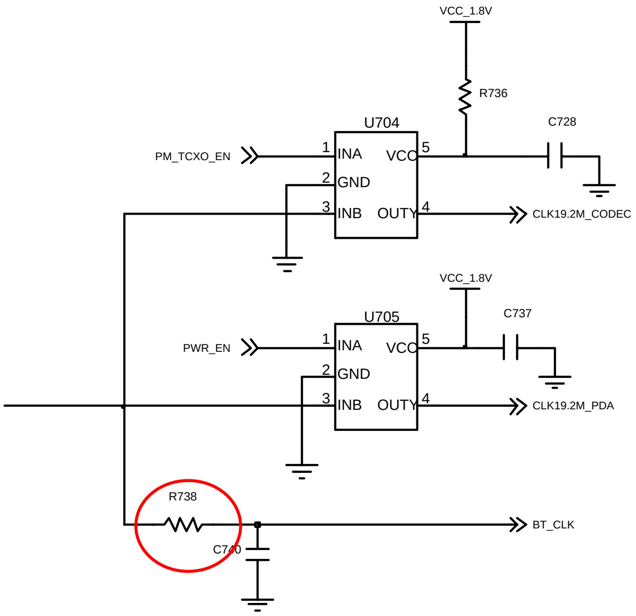

Continuous TX ON
RF Input: Tx DAC 700, High gain mode
Channel: 9750
Check C207,C210 = 2.9V
No
Check soldered status of C207,C210
Yes
Check #1 pin of F200 > -10dBm
No
Resolder or change L200, L201, L202, L203, L204, L205, L206, C209
Yes
Check #2 pin of PAM200 > -13dBm
No
Check soldered status of R202
Yes
Check #8 pin of PAM200 > 18dBm
No
Check soldered status of PAM200
Yes
Check #3 pin of DUF200 > 15dBm
No
Check soldered status of L215, C234
Yes
Check #21 pin of MOD100 > 13dBm
No
Check soldered status of DUF200,C237
Yes
Check #1 pin of MOD100 > 10dBm
No
Resolder of change MOD100
Check C119,C120<0.5V , C121>1.5V
Yes
End

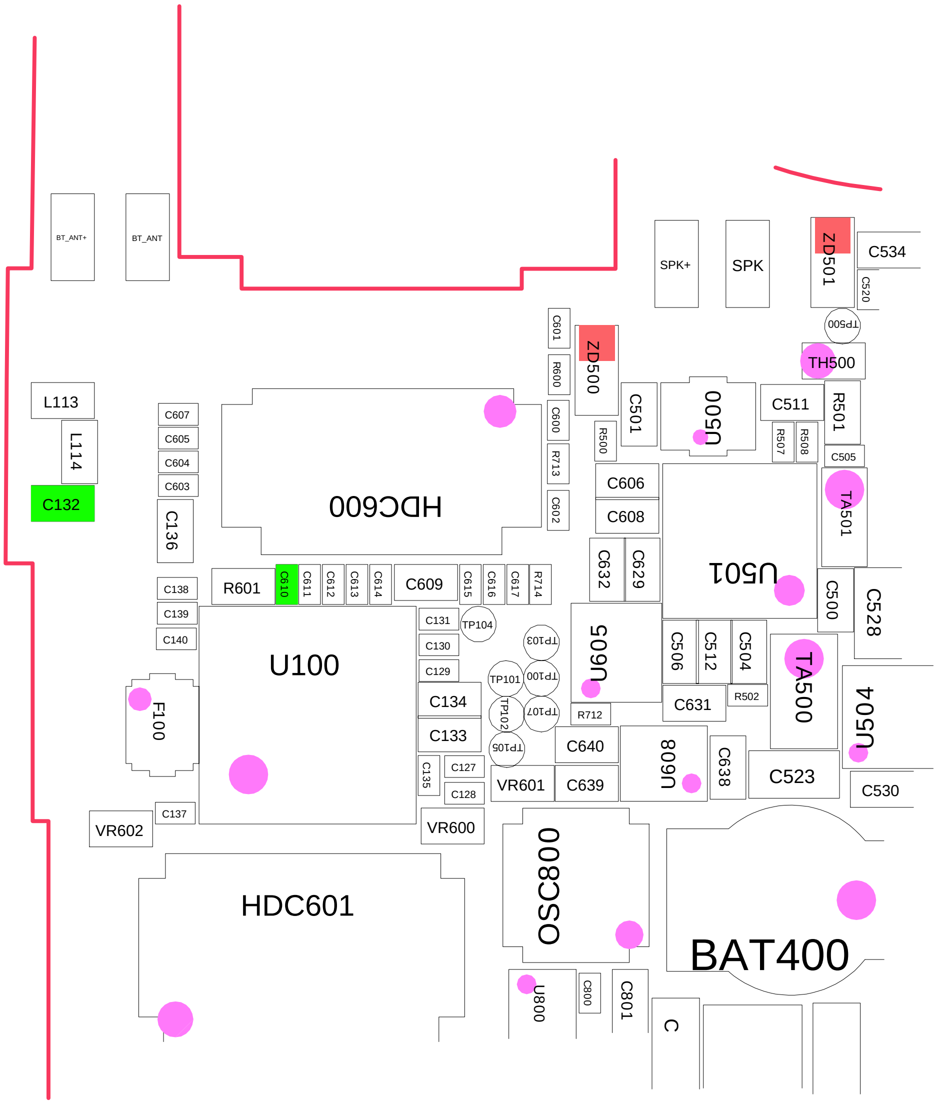

RFS100
G G A C
4 3 2 1
VTCXO_2.8V
L100
C101
L101
L103
C141
ANT100
3 2 1
C100
L102
MOD100
1 ANT
7 VDD
9 PCN|PCS_TX
11 GSM850|EGSM_TX
6 CTRL3
5 CTRL2
4 CTRL1
PCN_RX 16
PCN_RX 17
PCS_RX 18
PCS_RX 19
GSM850_RX 12
GSM850_RX 13
EGSM_RX 14
EGSM_RX 15
WCDMA2100 21
G G G G G G G G
2 3 8 10 23 24 20 22
DPCS_TX_OUT
GSM_TX_OUT
GSM_ANT_SEL0_N
GSM_ANT_SEL1_N
GSM_ANT_SEL2_N
C119
C120
C121
L104
C102
C103
DCS_RX_N
L105
DCS_RX_P
L106
C107
C108
PCS_RX_N
L107
PCS_RX_P
L108
C112
C113
GSM850_RX_N
L109
GSM850_RX_P
L111
C122
C123
GSM900_RX_N
L112
GSM900_RX_P
UMTS_ANT
VBAT
TA200
C205
C206
C208
PAM200
10 VCC2
VCC1 1
9 GND
RFIN 2
8 RFOUT
GND 3
7 GND
VCONT 4
6 GND
VREF 5
GND 11
R202
R203
3G_VMODE_EN
C215
C212
L207
VTX_2.9V
TR200
4 E2
C2 3
5 B2
B1 2
6 C1
E1 1
3G_PAM_ON
F200
1 OUT
IN 3
IN 4
G G
5 2
L200
C209
L204
L203
L201
L205
L202
L206
C207
C210
3G_TX_N
3G_TX_P
VTX_2.9V
L214
L215
C234
DUF200
3 TX
1 ANT
2 RX
GND 4
C237
UMTS_ANT
C240

10-2-6. BLUETOOTH

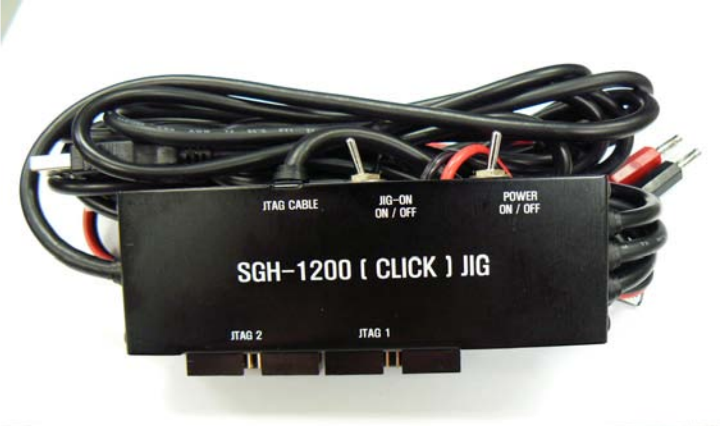

BT does not work
YES
Connection between BT ant and PCB pad.
- signal and ground pad -
NO
Resoldering
YES
The RF output power
; It should be - 6 ~ 4 dBm
at the end of Balun(F100).
NO
Change F100
YES
The OSC700 clock signal
; It should be 19.2MHz.
NO
Resoldering R783
YES
Change BT Chip U100


VAUX_2.8V
VCC_1.8V
C127
C128
C129
C130
C131
F100
DEA202450BT-7089C3
5 BAL
7 BAL
UNBAL 1
NC NC G G G
3 2 8 6 4
RGND
L114
L113
C132
BT_ANT+
BT_ANT
VCC_1.8V
VAUX_2.8V
VCC_1.8V
VCC_1.8V
U100
BT_RST_N
BT_CLK
CLK32K_BT
BT_REQ
BT_RXD
BT_TXD
BT_CTS
BT_RTS
BT_PCM_SYNC
BT_PCM_CLK
BT_PCM_OUT
BT_PCM_IN
TP100
TP101
TP102
TP103
TP104
TP105
TP106
TP107
BT_RESETN
BT_REF_CLK_IN
BT_LP_CLK
BT_CLK_REQ_OUT_1
BT_CLK_REQ_OUT_2
BT_CLK_REQ_IN_1
BT_CLK_REQ_IN_2
BT_HOST_WAKEUP|BT_SPI_INT
BT_WAKEUP
BT_UART_RXD|BT_SPI_DI
BT_UART_TXD|BT_SPI_DO
BT_UART_CTS|BT_SPI_CLK
BT_UART_RTS|BT_SPI_CSN
BT_PCM_SYNC
BT_PCM_CLK
BT_PCM_A
BT_PCM_B
BT_GPIO_9
BT_GPIO_11
BT_GPIO_10
BT_GPIO_16
BT_GPIO_8
BT_GPIO_0
BT_CONFIG_1
BT_CONFIG_2
BT_CONFIG_3
BT_RFP
BT_RFN
BT_HVA
BT_HVD
BT_VDD_D
BT_VIO_A
BT_VIO_B
BT_VDD_CLD
BT_VDD_DSM
BT_VDD_N
BT_VDD_CL
BT_VDD_RF
BT_VSSDIG
BT_VSSDIG
BT_VSSANA
BT_VSSANA
BT_VSSANA
BT_VSSRF
BT_VSSRF
BT_TEST1
BT_TEST2
BT_AF_PRG
NC
NC
C133
C134
C135
C136
C137
C138
C140
GND5
RGND


VCC_1.8V
R736
U704
C728
PM_TCXO_EN
1 INA
VCC 5
2 GND
3 INB
OUTY 4
CLK19.2M_CODEC
VCC_1.8V
U705
C737
PWR_EN
1 INA
VCC 5
2 GND
3 INB
OUTY 4
CLK19.2M_PDA
R738
C740
BT_CLK


BT_ANT+
BT_ANT
SPK+
SPK
ZD501
C534
C520
TP500
TH500
C601
ZD500
R600
C600
R713
C602
C501
U500
C511
R501
R500
R507
R508
C505
TA501
C606
C608
U501
L113
L114
C132
C607
C605
C604
C603
C136
HDC600
C632
C629
C500
C528
R601
C610
C611
C612
C613
C614
C609
C615
C616
C617
R714
C138
C139
C140
U100
C131
TP104
C130
C129
TP103
TP100
TP101
TP107
TP102
U605
C506
C512
C504
TA500
U504
C134
C133
R712
C631
R502
C640
C639
U608
C638
C523
C530
F100
TP105
C127
C128
C135
VR601
VR600
C137
VR602
HDC601
OSC800
BAT400
U800
C800
C801
C

4. Array course control


JTAG CABLE
JIG-ON ON / OFF
POWER ON / OFF
SGH-1200 (CLICK) JIG
JTAG 2
JTAG 1

Test Jig (GH80-03307A)

RF Test Cable
(GH39-00985A)

Test Cable
(GH39-00895A / GH39-00892A)

DATA CABLE
(GH39-00859B)

Software Downloading

4-1. Downloading Binary Files

1) 9 binary files for i200

- click_all.lst
- click_splash.bin
- EBOOT.bin
- EBOOT.nb0
- NAND.bin
- psi.flb
- slb.flb
- CLICK.fls
- CLICK.eep

4-2. Pre-requsite for Downloading

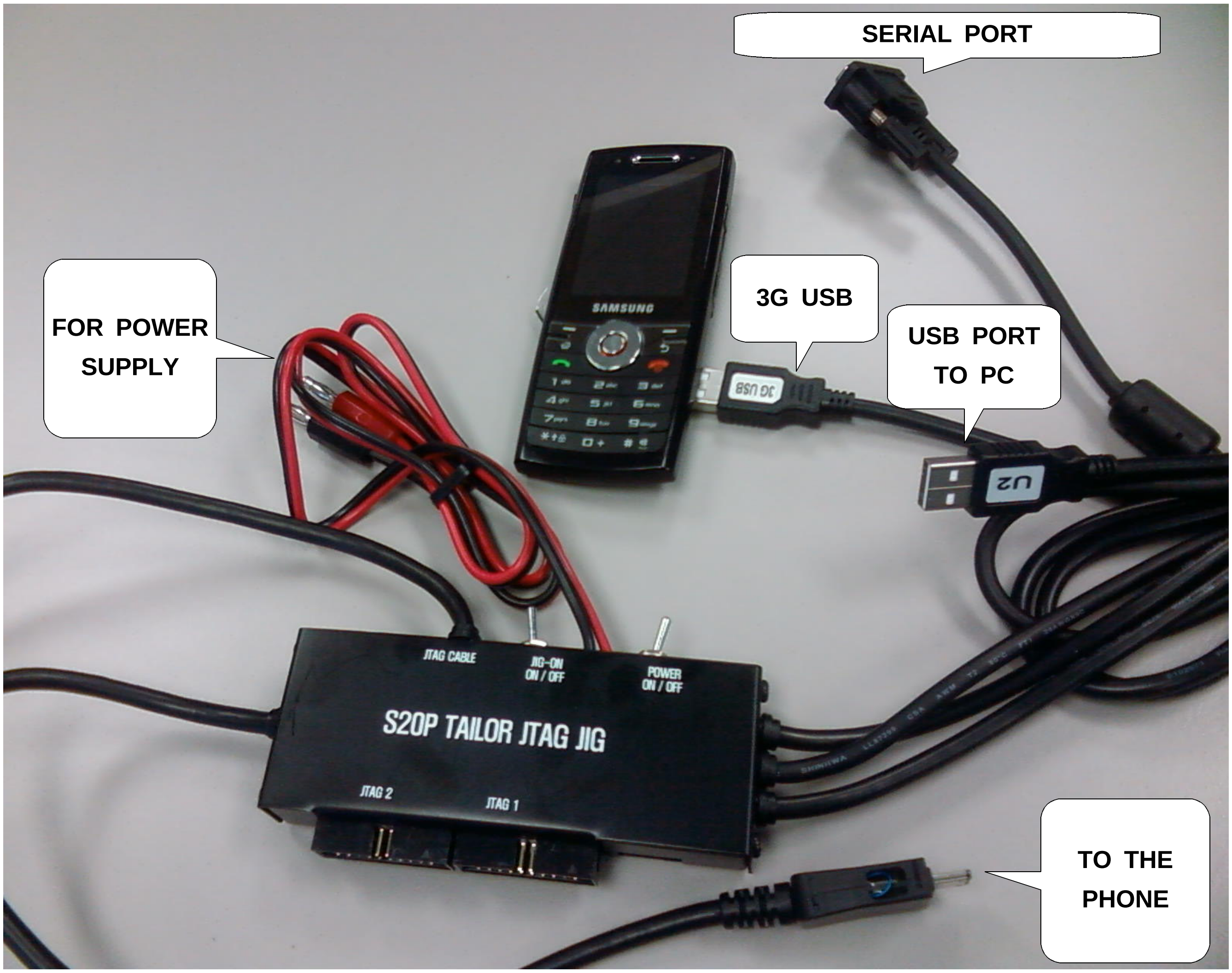
- Downloader Program (ClickFlash V0.1Beta.exe)
- SGH-i200 Mobile Phone
- Data Cable
- Binary files

4-3. S/W Downloader Program

4-3-1. Connection

① Connect SGH-i200 and JIG BOX

- Connect USB Port
- Reference the following feature

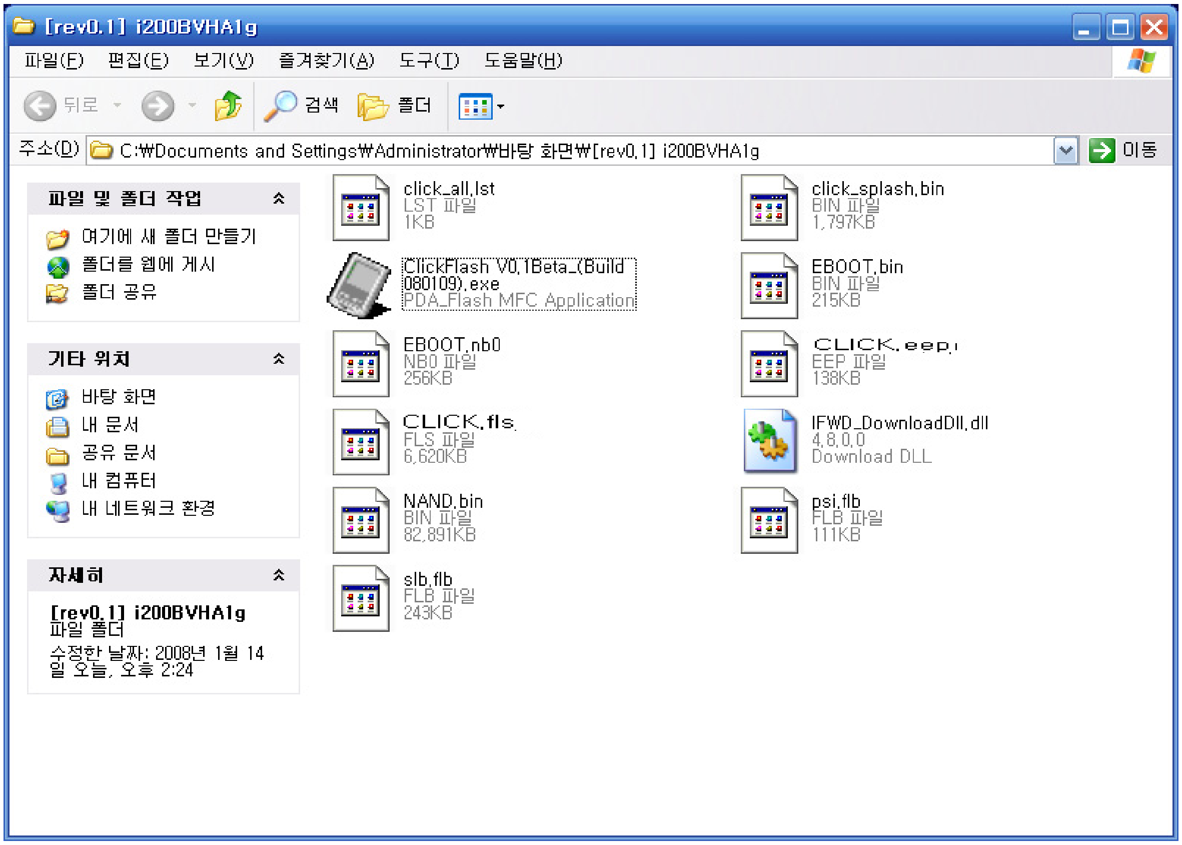

SERIAL PORT
FOR POWER SUPPLY
3G USB
USB PORT TO PC
SAMSUNG
3G USB
U2
JTAG CABLE
JIG-ON ON / OFF
POWER ON / OFF
S20P TAILOR JTAG JIG
JTAG 2
JTAG 1
TO THE PHONE

4-3-2. Check PDA Image, Phone Image and USB Downloader.

① Check the Image

- Check PDA Image and Phone Image in Image Folder.

(“i200BVHA1g” is the example in this Download manual.)


[rev0.1] i200BVHA1g
파일(F) 편집(E) 보기(V) 즐겨찾기(A) 도구(T) 도움말(H)
뒤로
검색
폴더
이동
파일 및 폴더 작업
여기에 새 폴더 만들기
폴더를 웹에 게시
폴더 공유
기타 위치
바탕 화면
내 문서
공유 문서
내 컴퓨터
내 네트워크 환경
자세히

주소(D) C:₩Documents and Settings₩Administrator₩바탕 화면₩[rev0.1] i200BVHA1g

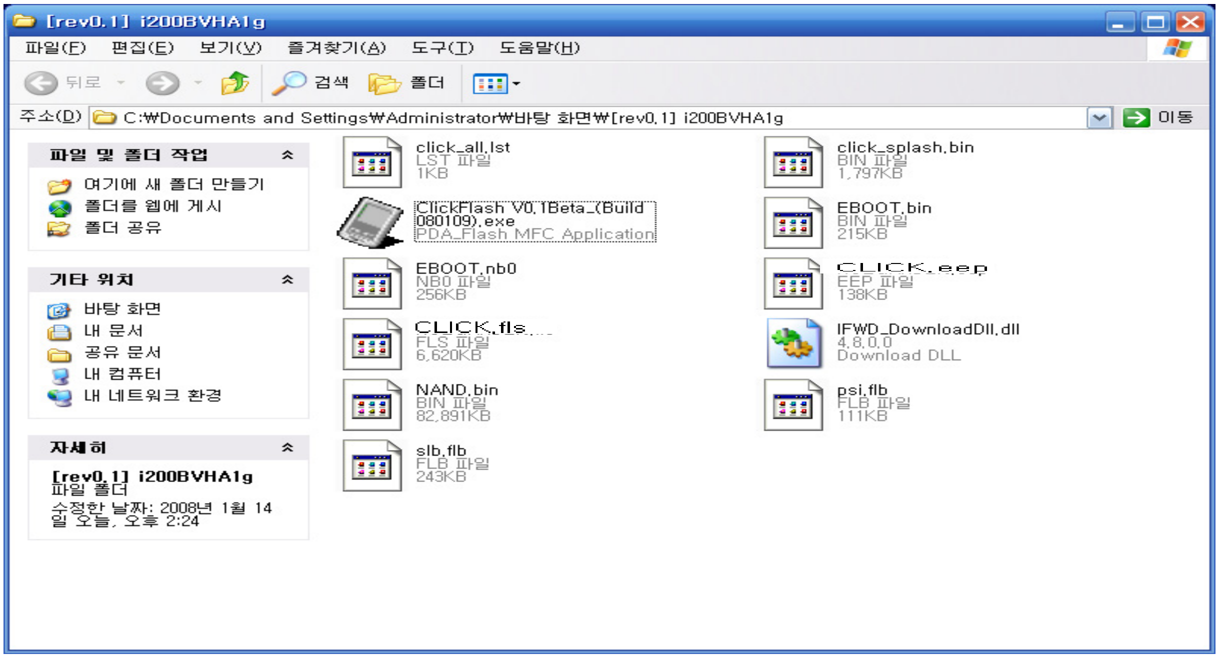
[rev0.1] i200BVHA1g
파일 폴더
수정한 날짜: 2008년 1월 14일 오늘, 오후 2:24

click_all.lst LST 파일 1KB
click_splash.bin BIN 파일 1,797KB
ClickFlash V0.1Beta_(Build 080109).exe PDA_Flash MFC Application
EBOOT.bin BIN 파일 215KB
EBOOT.nb0 NB0 파일 256KB
CLICK.eep EEP 파일 138KB
CLICK.fls FLS 파일 6,620KB
IFWD_DownloadDll.dll 4.8.0.0 Download DLL
NAND.bin BIN 파일 82,891KB
psi.flb FLB 파일 111KB
slb.flb FLB 파일 243KB

- **PDA Image**
  - click_splash.bin
  - EBOOT.bin
  - EBOOT.nb0
  - NAND.bin
- **Phone Image**
  - psi.flb
  - slb.flb
  - CLICK.fls
  - CLICK.eep
- **List File**
  - click_all.lst

② Check the Download Tool

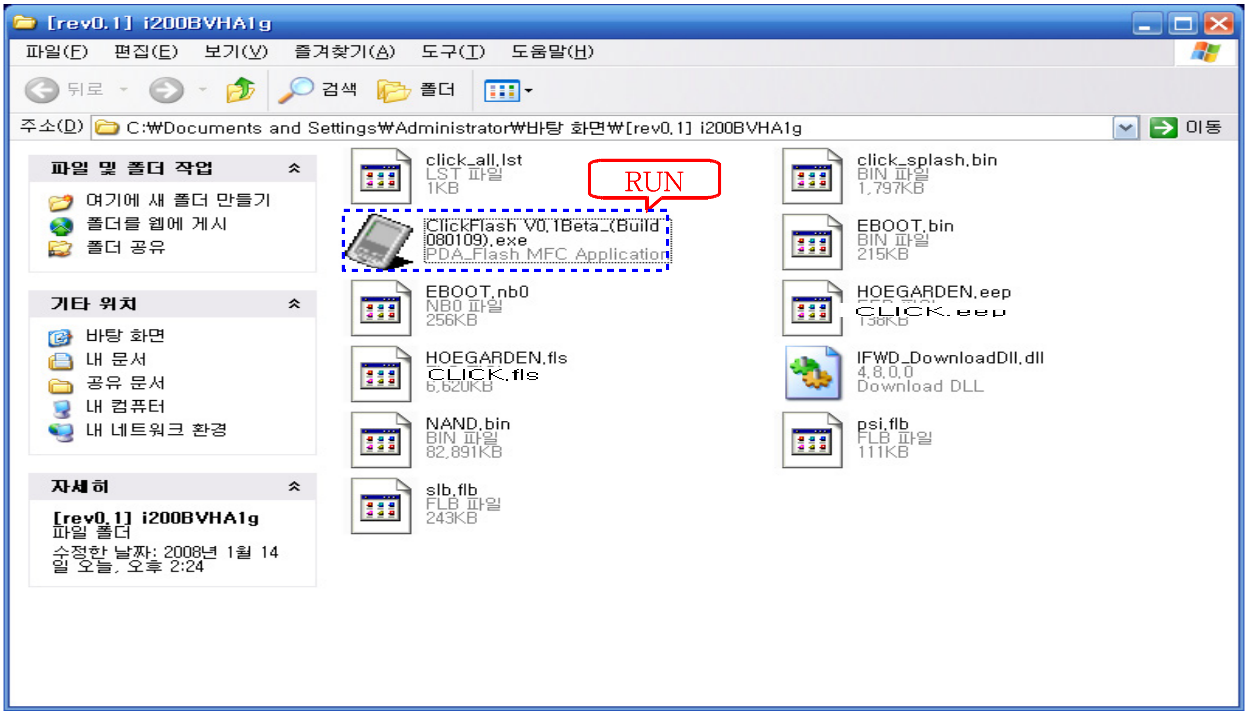
- Check USB Download tool in Image Folder.

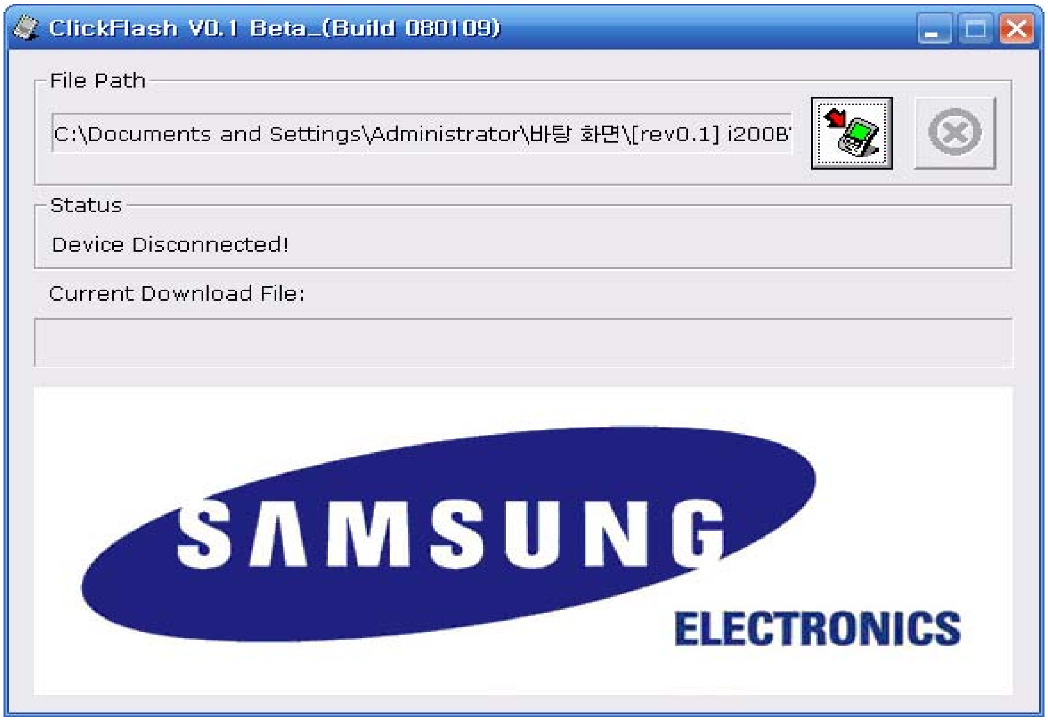

[rev0.1] i200BVHA1g
파일(F) 편집(E) 보기(V) 즐겨찾기(A) 도구(T) 도움말(H)
뒤로 검색 폴더
주소(D) C:₩Documents and Settings₩Administrator₩바탕 화면₩[rev0.1] i200BVHA1g
이동
파일 및 폴더 작업
여기에 새 폴더 만들기
폴더를 웹에 게시
폴더 공유
기타 위치
바탕 화면
내 문서
공유 문서
내 컴퓨터
내 네트워크 환경
자세히
[rev0.1] i200BVHA1g
파일 폴더
수정한 날짜: 2008년 1월 14일 오늘, 오후 2:24
click_all.lst LST 파일 1KB
click_splash.bin BIN 파일 1,797KB
ClickFlash V0.1Beta_(Build 080109).exe PDA_Flash MFC Application
EBOOT.bin BIN 파일 215KB
EBOOT.nb0 NB0 파일 256KB
CLICK.eep EEP 파일 138KB
CLICK.fls FLS 파일 6,620KB
IFWD_DownloadDll.dll 4.8.0.0 Download DLL
NAND.bin BIN 파일 82,891KB
psi.flb FLB 파일 111KB
slb.flb FLB 파일 243KB

- ClickFlash V0.1Beta
- IFWD_DownloadDll.dll

4-3-3. Download the PDA Image and Phone Image.

① Execute ClickFlash V0.1Beta.exe


[rev0.1] i200BVHA1g
파일(F) 편집(E) 보기(V) 즐겨찾기(A) 도구(T) 도움말(H)
뒤로 검색 폴더
주소(D) C:₩Documents and Settings₩Administrator₩바탕 화면₩[rev0.1] i200BVHA1g
이동
파일 및 폴더 작업
여기에 새 폴더 만들기
폴더를 웹에 게시
폴더 공유
기타 위치
바탕 화면
내 문서
공유 문서
내 컴퓨터
내 네트워크 환경
자세히
[rev0.1] i200BVHA1g
파일 폴더
수정한 날짜: 2008년 1월 14일 오늘, 오후 2:24
RUN
click_all.lst LST 파일 1KB
click_splash.bin BIN 파일 1,797KB
ClickFlash V0.1Beta_(Build 080109).exe PDA_Flash MFC Application
EBOOT.bin BIN 파일 215KB
EBOOT.nb0 NB0 파일 256KB
HOEGARDEN.eep CLICK.eep 138KB
HOEGARDEN.fls CLICK.fls 6,620KB
IFWD_DownloadDll.dll 4.8.0.0 Download DLL
NAND.bin BIN 파일 82,891KB
psi.flb FLB 파일 111KB
slb.flb FLB 파일 243KB



ClickFlash V0.1 Beta_(Build 080109)

File Path

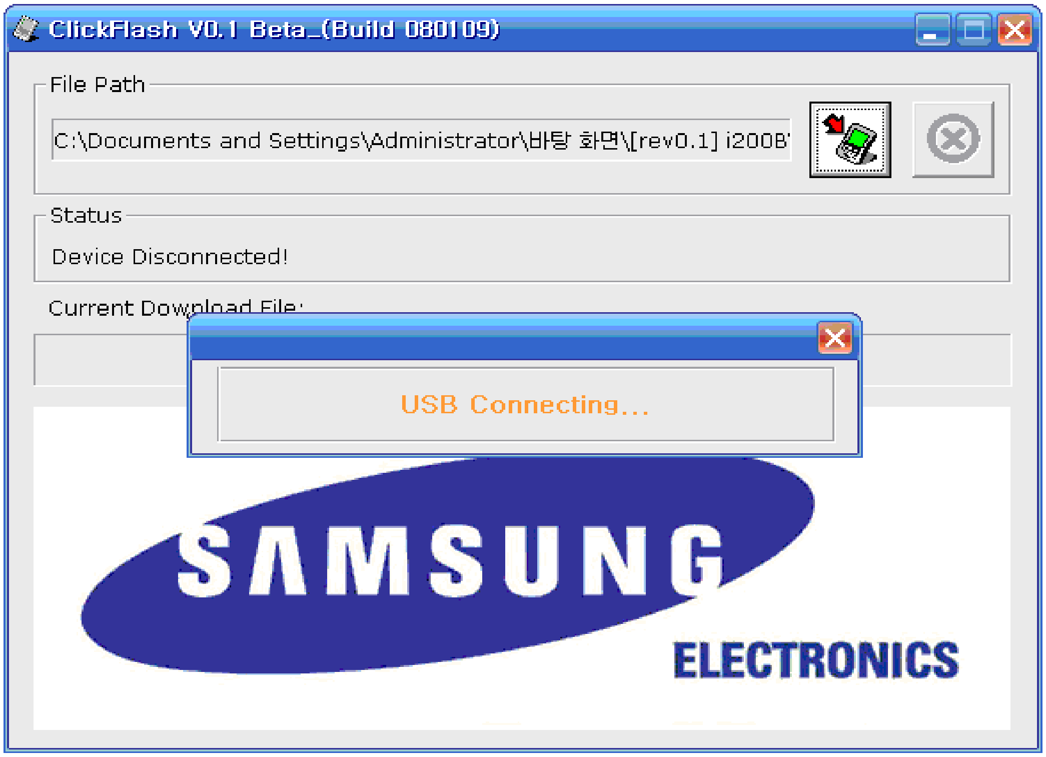
C:\Documents and Settings\Administrator\바탕 화면\[rev0.1] i200B

Status

Device Disconnected!

Current Download File:

- Hold the BACK Key (Soft 2 Key) and Power ON
- Click the Download Start button after booting



ClickFlash V0.1 Beta_(Build 080109)

File Path

C:\Documents and Settings\Administrator\바탕 화면\[rev0.1] i200B

Status

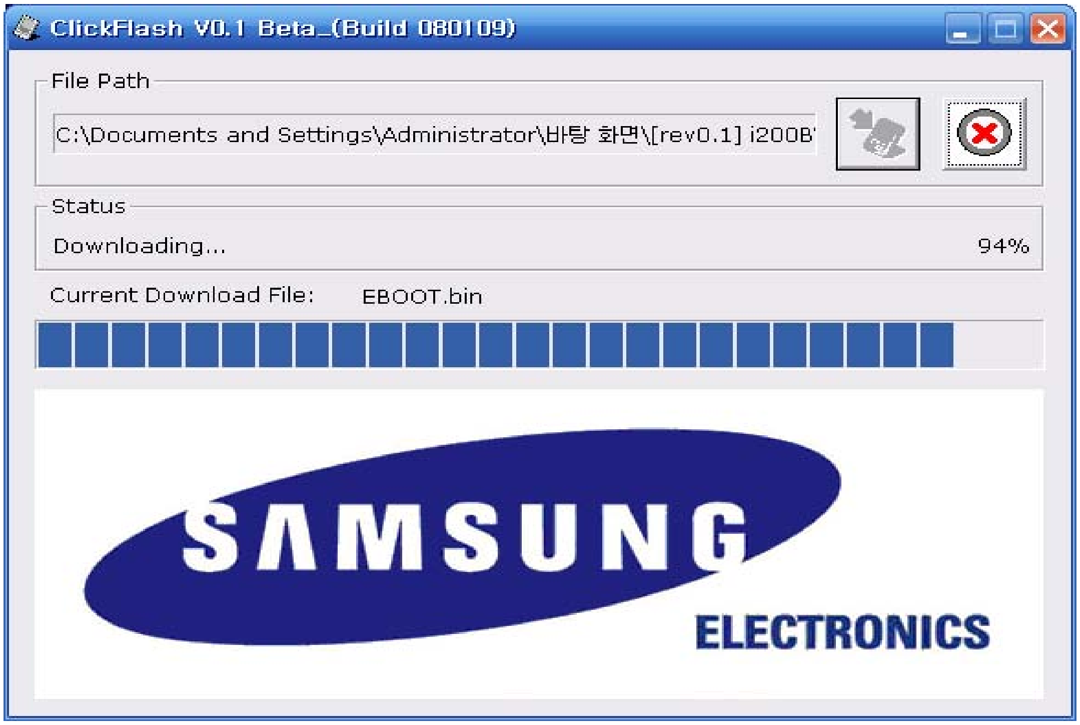
Device Disconnected!

Current Download File:

USB Connecting...

② Exceptions

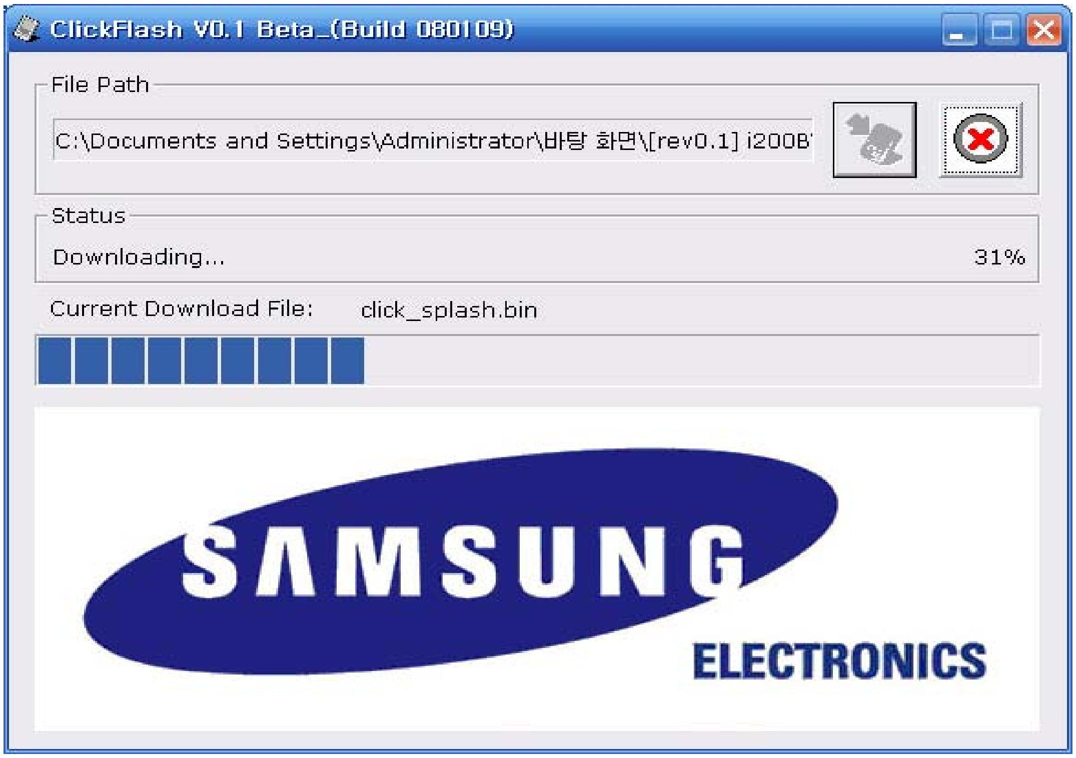
- If the drivers associated with the downloader are installed correctly, the downloader will show you increasing bar the following


ClickFlash V0.1 Beta_(Build 080109)
SAMSUNG
ELECTRONICS

File Path: C:\Documents and Settings\Administrator\바탕 화면\[rev0.1] i200B

Status: Downloading... 94%

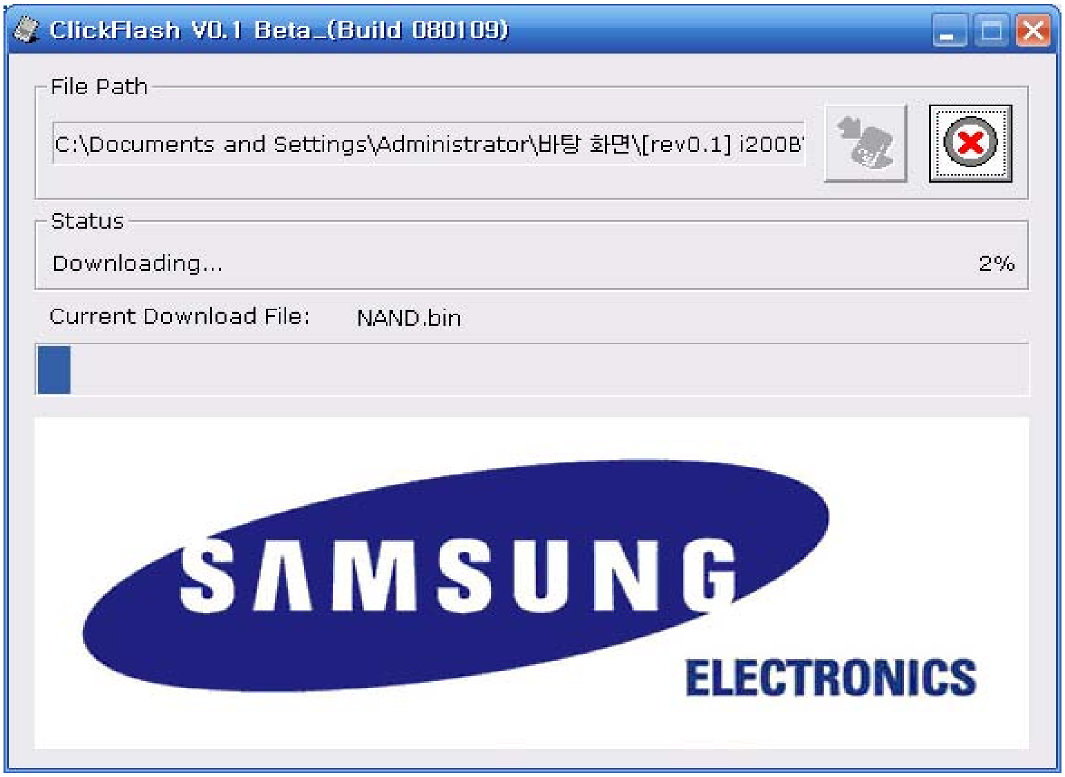
Current Download File: EBOOT.bin


ClickFlash V0.1 Beta_(Build 080109)
SAMSUNG
ELECTRONICS

File Path: C:\Documents and Settings\Administrator\바탕 화면\[rev0.1] i200B

Status: Downloading... 31%

Current Download File: click_splash.bin



ClickFlash V0.1 Beta_(Build 080109)

File Path

C:\Documents and Settings\Administrator\바탕 화면\[rev0.1] i200B'

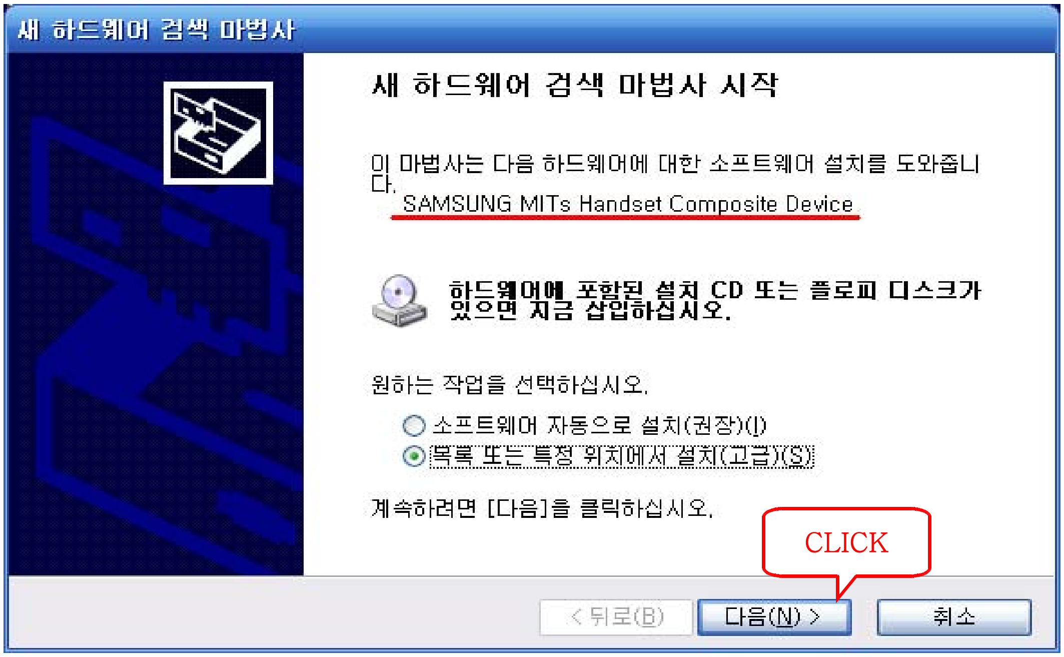
Status

Downloading... 2%

Current Download File: NAND.bin

- If the drivers are not installed or the drivers need to be installed again, you should follow this step.

⑴ SAMSUNG MITs Handset Composite Device



새 하드웨어 검색 마법사

새 하드웨어 검색 마법사 시작

이 마법사는 다음 하드웨어에 대한 소프트웨어 설치를 도와줍니다.

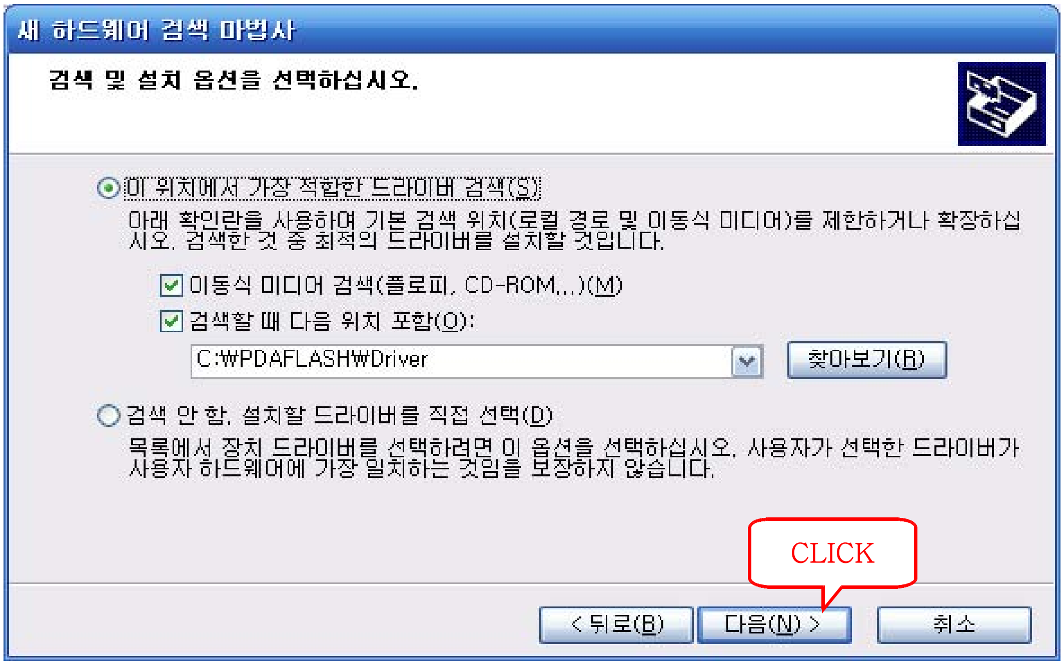
SAMSUNG MITs Handset Composite Device

하드웨어에 포함된 설치 CD 또는 플로피 디스크가 있으면 지금 삽입하십시오.

원하는 작업을 선택하십시오.

○ 소프트웨어 자동으로 설치(권장)(I)
● 목록 또는 특정 위치에서 설치(고급)(S)

계속하려면 [다음]을 클릭하십시오.



새 하드웨어 검색 마법사

검색 및 설치 옵션을 선택하십시오.

● 이 위치에서 가장 적합한 드라이버 검색(S)

아래 확인란을 사용하여 기본 검색 위치(로컬 경로 및 이동식 미디어)를 제한하거나 확장하십시오. 검색한 것 중 최적의 드라이버를 설치할 것입니다.

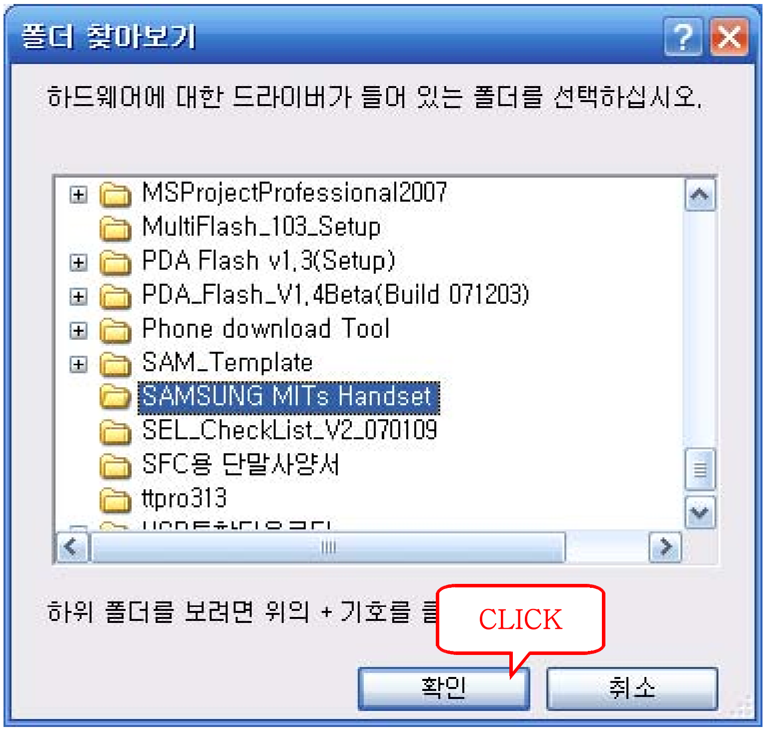
☑ 이동식 미디어 검색(플로피, CD-ROM...)(M)

☑ 검색할 때 다음 위치 포함(O):

C:₩PDAFLASH₩Driver

○ 검색 안 함. 설치할 드라이버를 직접 선택(D)

목록에서 장치 드라이버를 선택하려면 이 옵션을 선택하십시오. 사용자가 선택한 드라이버가 사용자 하드웨어에 가장 일치하는 것임을 보장하지 않습니다.



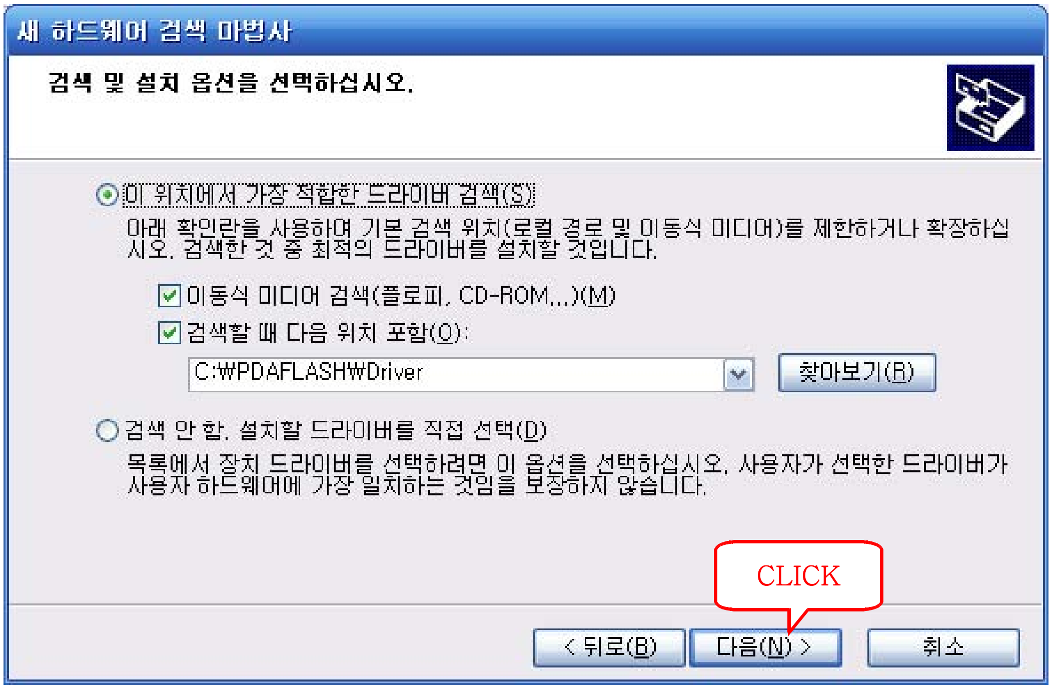
폴더 찾아보기

하드웨어에 대한 드라이버가 들어 있는 폴더를 선택하십시오.

- MSProjectProfessional2007
- MultiFlash_103_Setup
- PDA Flash v1.3(Setup)
- PDA_Flash_V1.4Beta(Build 071203)
- Phone download Tool
- SAM_Template
- SAMSUNG MITs Handset
- SEL_CheckList_V2_070109
- SFC용 단말사양서
- ttpro313

하위 폴더를 보려면 위의 + 기호를 클

- Select the “SAMSUNG MITs Handset” Folder including the Drivers



검색 및 설치 옵션을 선택하십시오.

● 이 위치에서 가장 적합한 드라이버 검색(S)

아래 확인란을 사용하여 기본 검색 위치(로컬 경로 및 이동식 미디어)를 제한하거나 확장하십시오. 검색한 것 중 최적의 드라이버를 설치할 것입니다.

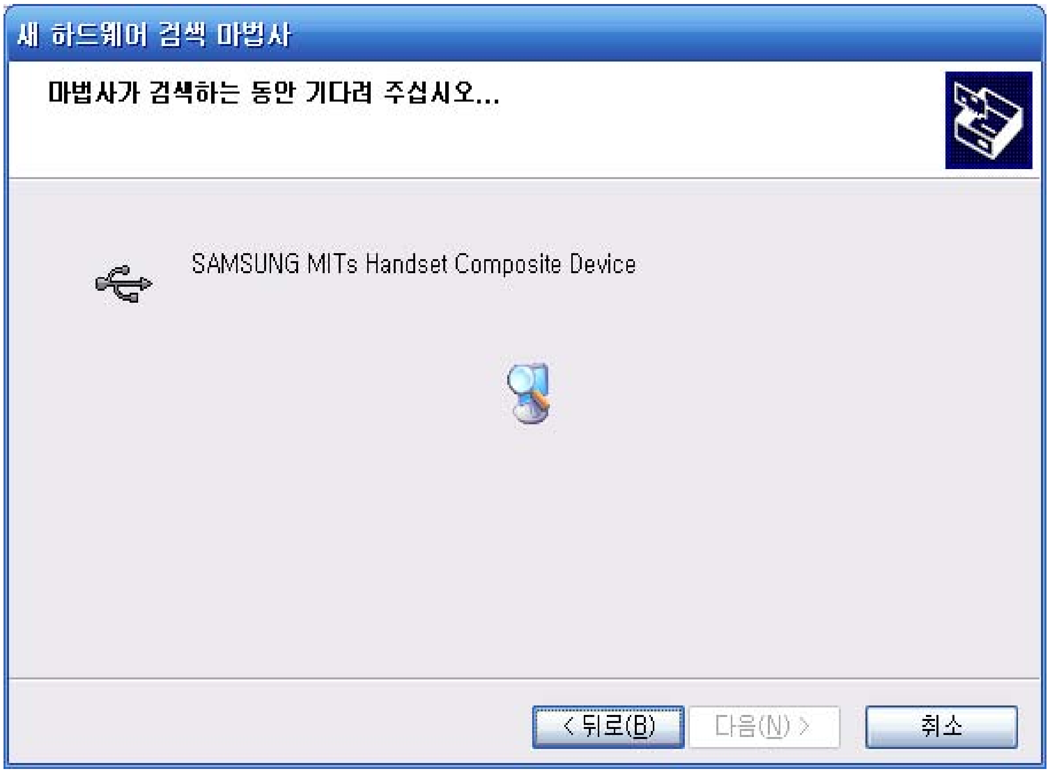
☑ 이동식 미디어 검색(플로피, CD-ROM...)(M)

☑ 검색할 때 다음 위치 포함(O):

C:₩PDAFLASH₩Driver 찾아보기(R)

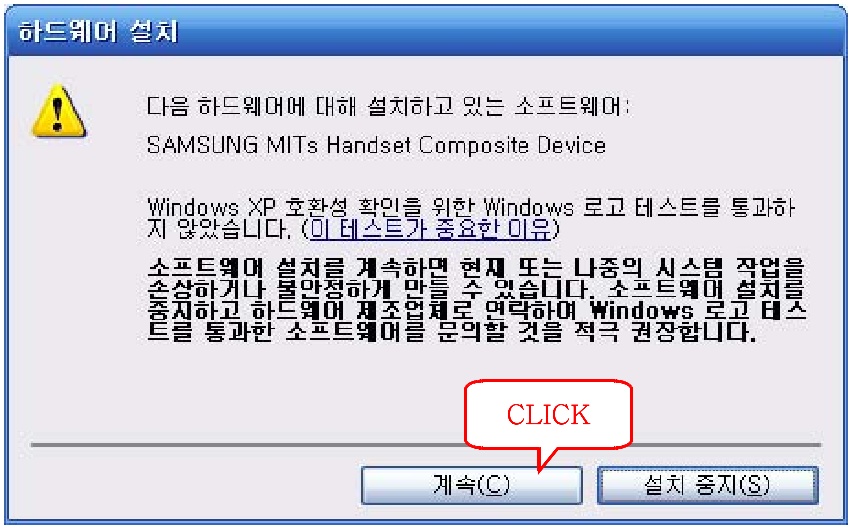
○ 검색 안 함. 설치할 드라이버를 직접 선택(D)

목록에서 장치 드라이버를 선택하려면 이 옵션을 선택하십시오. 사용자가 선택한 드라이버가 사용자 하드웨어에 가장 일치하는 것임을 보장하지 않습니다.



마법사가 검색하는 동안 기다려 주십시오...

SAMSUNG MITs Handset Composite Device



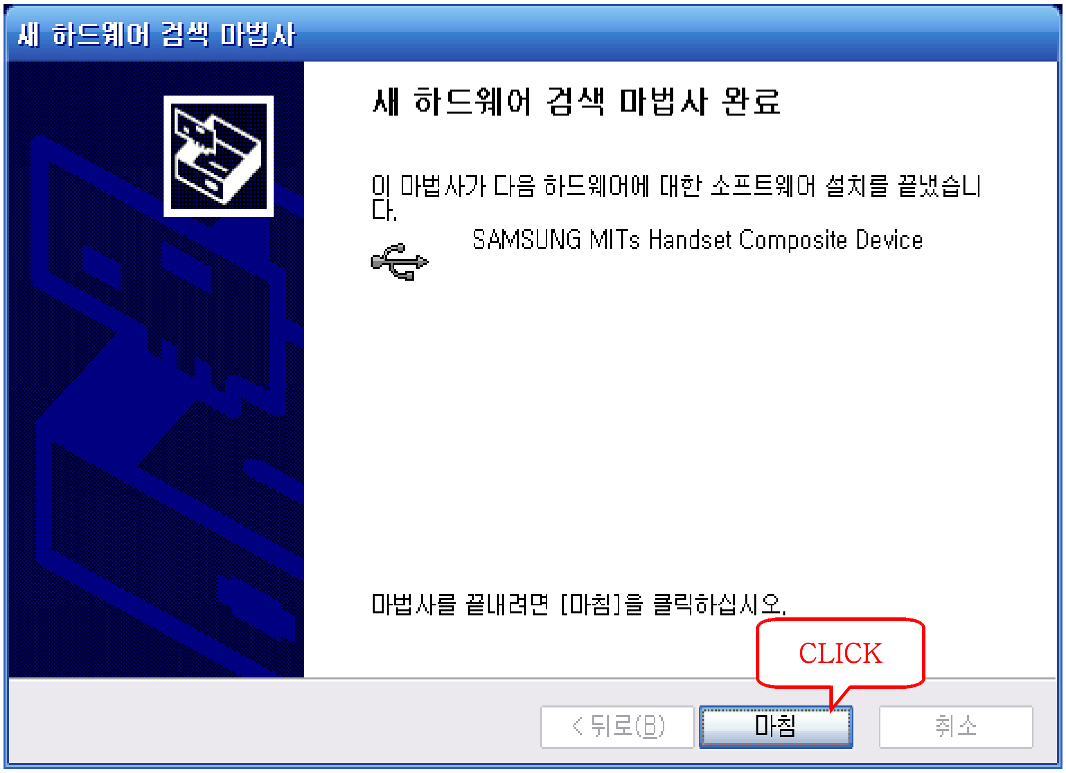
하드웨어 설치

다음 하드웨어에 대해 설치하고 있는 소프트웨어:

SAMSUNG MITs Handset Composite Device

Windows XP 호환성 확인을 위한 Windows 로고 테스트를 통과하지 않았습니다. (이 테스트가 중요한 이유)

소프트웨어 설치를 계속하면 현재 또는 나중의 시스템 작업을 손상하거나 불안정하게 만들 수 있습니다. 소프트웨어 설치를 중지하고 하드웨어 제조업체로 연락하여 Windows 로고 테스트를 통과한 소프트웨어를 문의할 것을 적극 권장합니다.



새 하드웨어 검색 마법사

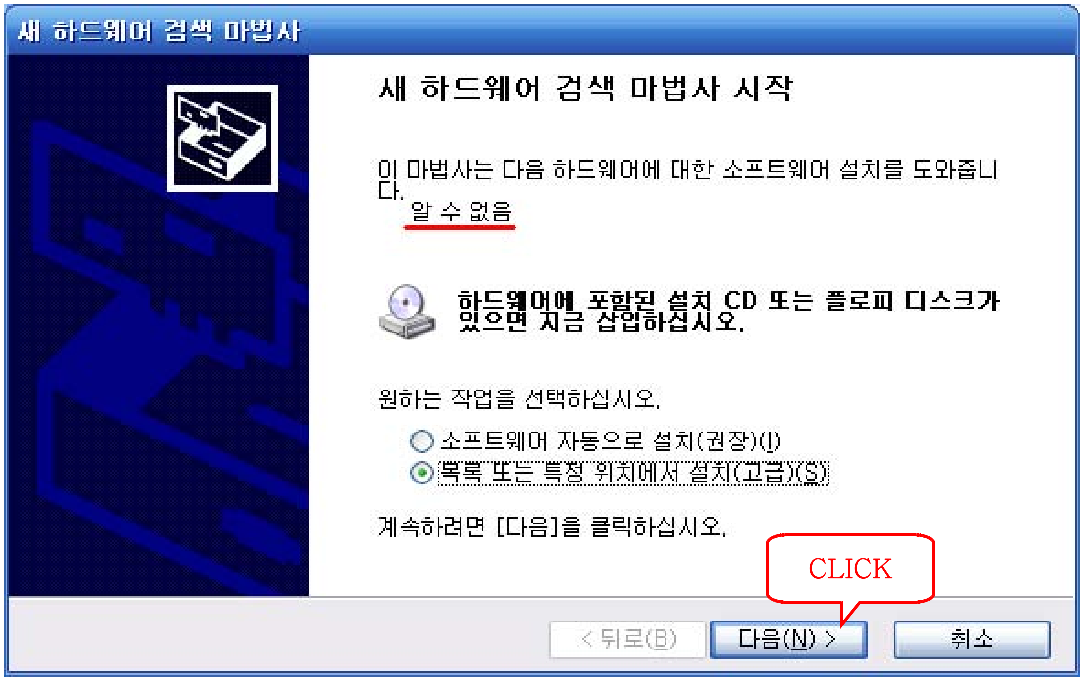
새 하드웨어 검색 마법사 완료

이 마법사가 다음 하드웨어에 대한 소프트웨어 설치를 끝냈습니다.

SAMSUNG MITs Handset Composite Device

마법사를 끝내려면 [마침]을 클릭하십시오.

⑵ SAMSIMG MITs Handset



새 하드웨어 검색 마법사 시작

이 마법사는 다음 하드웨어에 대한 소프트웨어 설치를 도와줍니다.

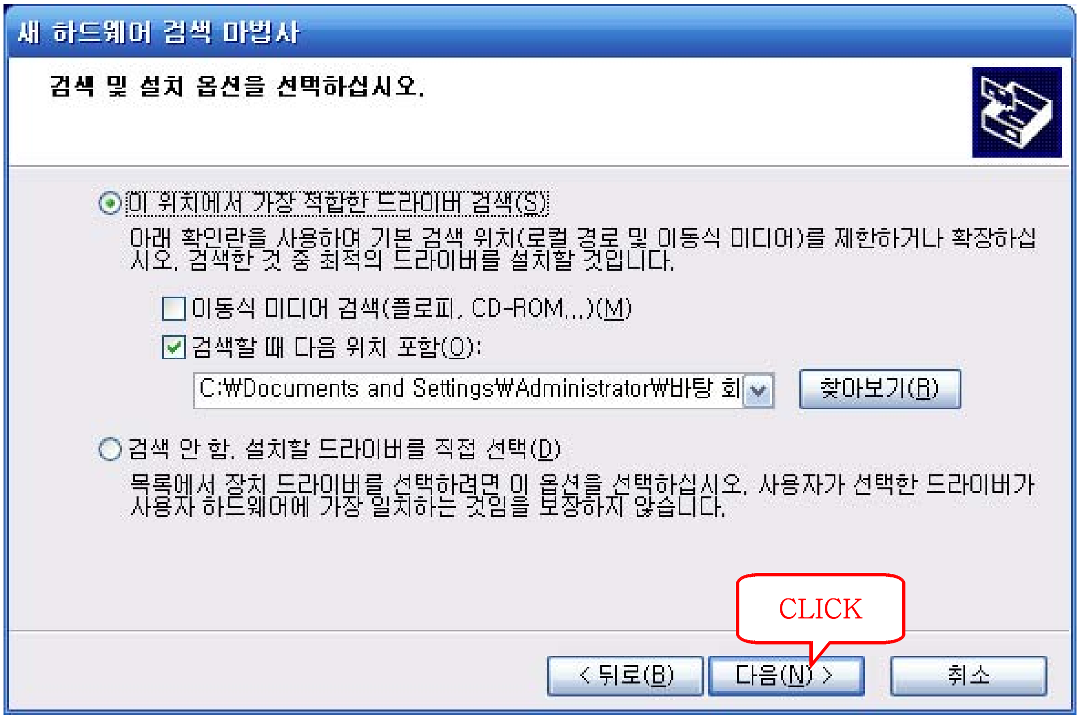
알 수 없음

하드웨어에 포함된 설치 CD 또는 플로피 디스크가 있으면 지금 삽입하십시오.

원하는 작업을 선택하십시오.

○ 소프트웨어 자동으로 설치(권장)(I)
● 목록 또는 특정 위치에서 설치(고급)(S)

계속하려면 [다음]을 클릭하십시오.



검색 및 설치 옵션을 선택하십시오.

● 이 위치에서 가장 적합한 드라이버 검색(S)

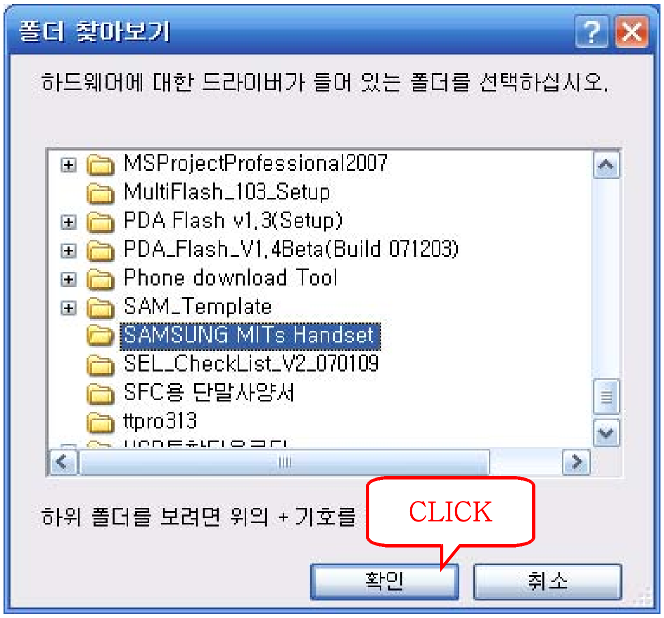
아래 확인란을 사용하여 기본 검색 위치(로컬 경로 및 이동식 미디어)를 제한하거나 확장하십시오. 검색한 것 중 최적의 드라이버를 설치할 것입니다.

☐ 이동식 미디어 검색(플로피, CD-ROM...)(M)
☑ 검색할 때 다음 위치 포함(O):

C:₩Documents and Settings₩Administrator₩바탕 화

○ 검색 안 함. 설치할 드라이버를 직접 선택(D)

목록에서 장치 드라이버를 선택하려면 이 옵션을 선택하십시오. 사용자가 선택한 드라이버가 사용자 하드웨어에 가장 일치하는 것임을 보장하지 않습니다.



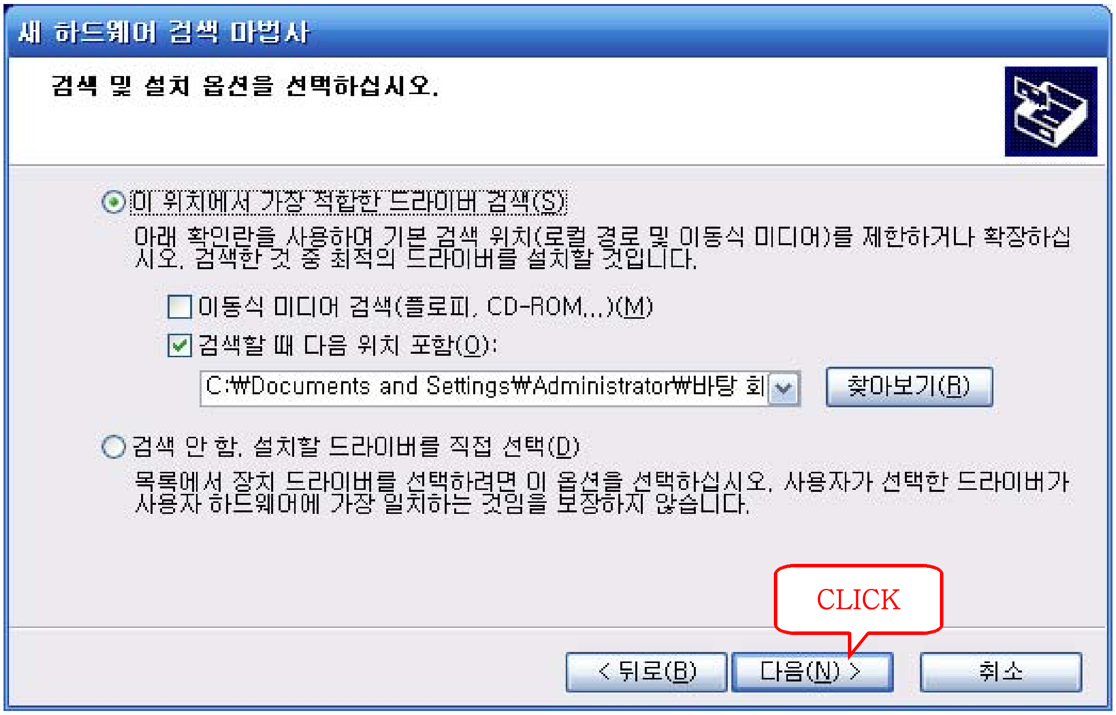
폴더 찾아보기

하드웨어에 대한 드라이버가 들어 있는 폴더를 선택하십시오.

하위 폴더를 보려면 위의 + 기호를

MSProjectProfessional2007
MultiFlash_103_Setup
PDA Flash v1.3(Setup)
PDA_Flash_V1.4Beta(Build 071203)
Phone download Tool
SAM_Template
SAMSUNG MITs Handset
SEL_CheckList_V2_070109
SFC용 단말사양서
ttpro313
CLICK
확인
취소

- Select the “SAMSUNG MITs Handset” Folder including the Drivers



새 하드웨어 검색 마법사

검색 및 설치 옵션을 선택하십시오.

● 이 위치에서 가장 적합한 드라이버 검색(S)

아래 확인란을 사용하여 기본 검색 위치(로컬 경로 및 이동식 미디어)를 제한하거나 확장하십시오. 검색한 것 중 최적의 드라이버를 설치할 것입니다.

☐ 이동식 미디어 검색(플로피, CD-ROM...)(M)

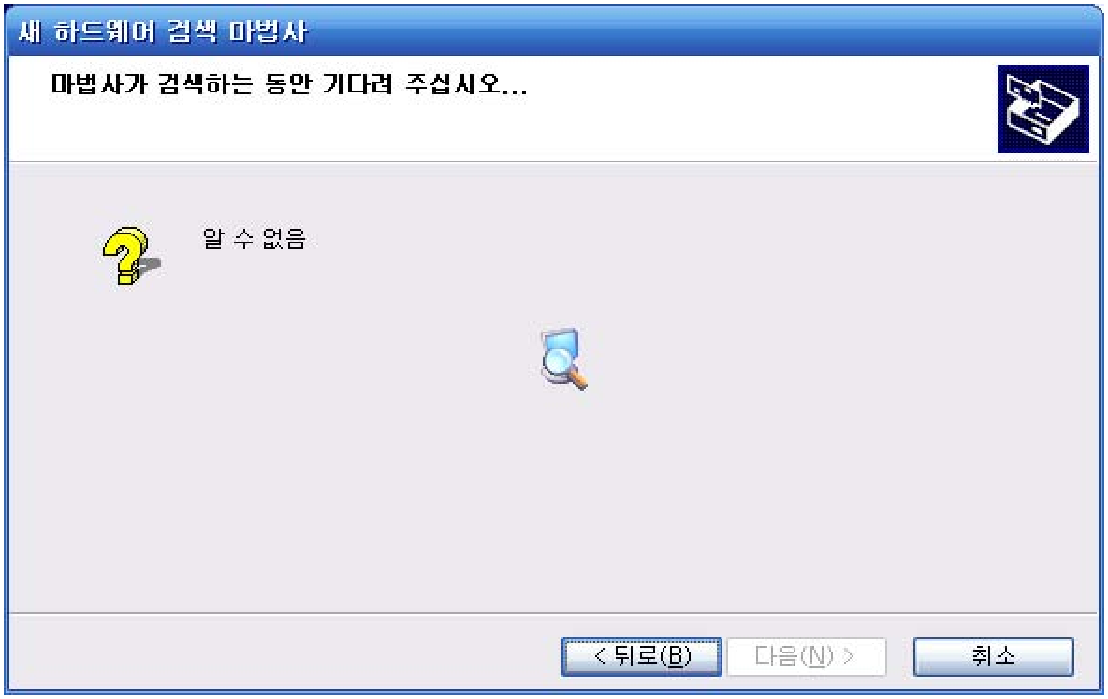
☑ 검색할 때 다음 위치 포함(O):

C:₩Documents and Settings₩Administrator₩바탕 화

○ 검색 안 함. 설치할 드라이버를 직접 선택(D)

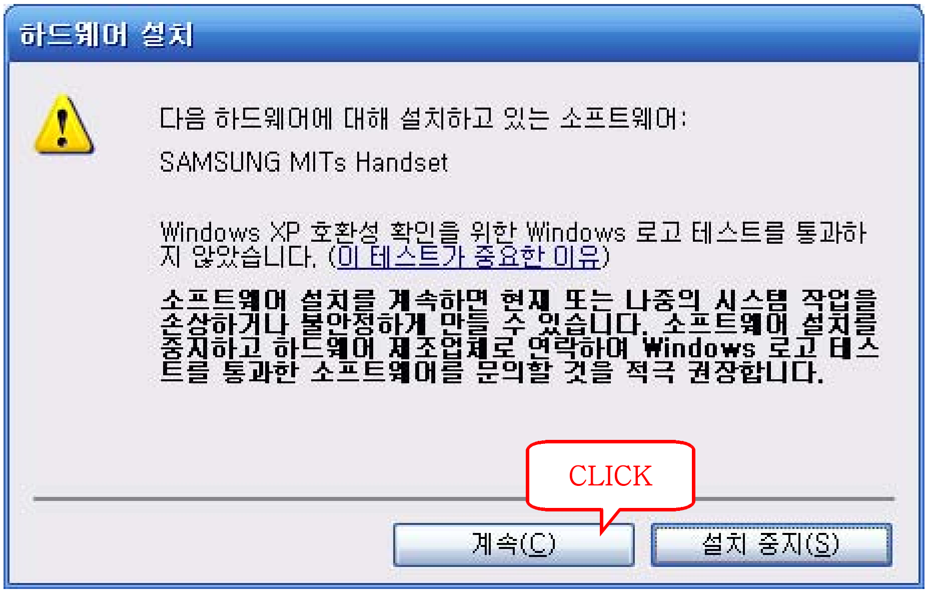
목록에서 장치 드라이버를 선택하려면 이 옵션을 선택하십시오. 사용자가 선택한 드라이버가 사용자 하드웨어에 가장 일치하는 것임을 보장하지 않습니다.

찾아보기(R)
CLICK
< 뒤로(B)
다음(N) >
취소


새 하드웨어 검색 마법사
< 뒤로(B)
다음(N) >
취소

마법사가 검색하는 동안 기다려 주십시오...

알 수 없음

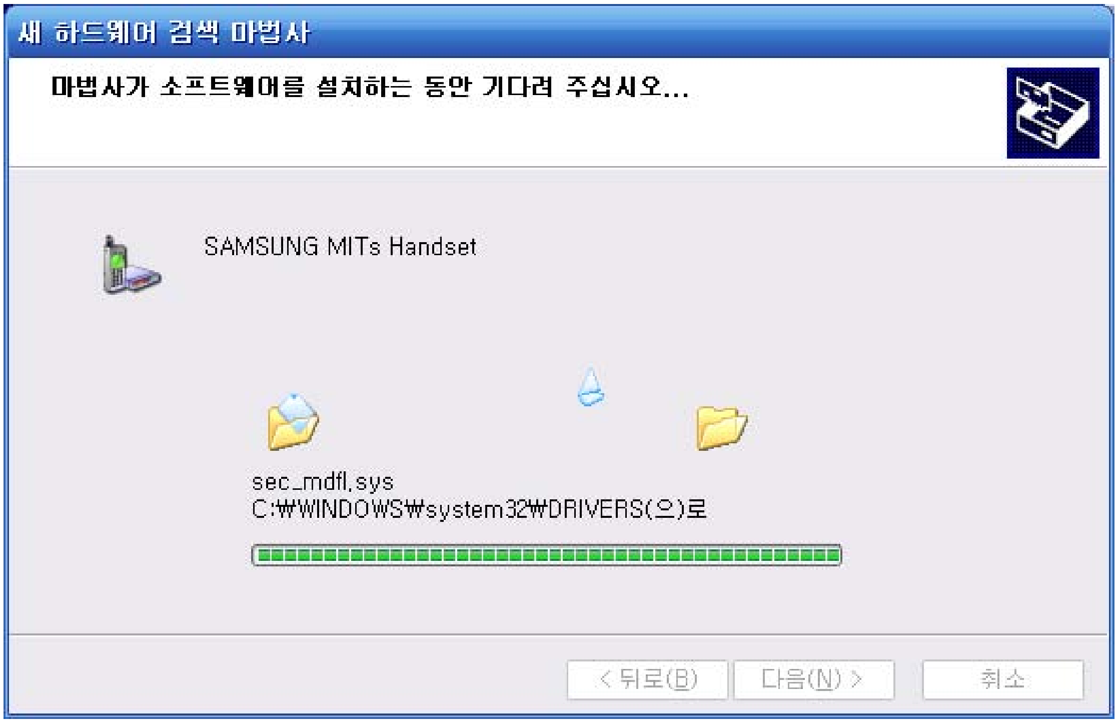

하드웨어 설치
CLICK
계속(C)
설치 중지(S)

다음 하드웨어에 대해 설치하고 있는 소프트웨어:

SAMSUNG MITs Handset

Windows XP 호환성 확인을 위한 Windows 로고 테스트를 통과하지 않았습니다. (이 테스트가 중요한 이유)

소프트웨어 설치를 계속하면 현재 또는 나중의 시스템 작업을 손상하거나 불안정하게 만들 수 있습니다. 소프트웨어 설치를 중지하고 하드웨어 제조업체로 연락하여 Windows 로고 테스트를 통과한 소프트웨어를 문의할 것을 적극 권장합니다.

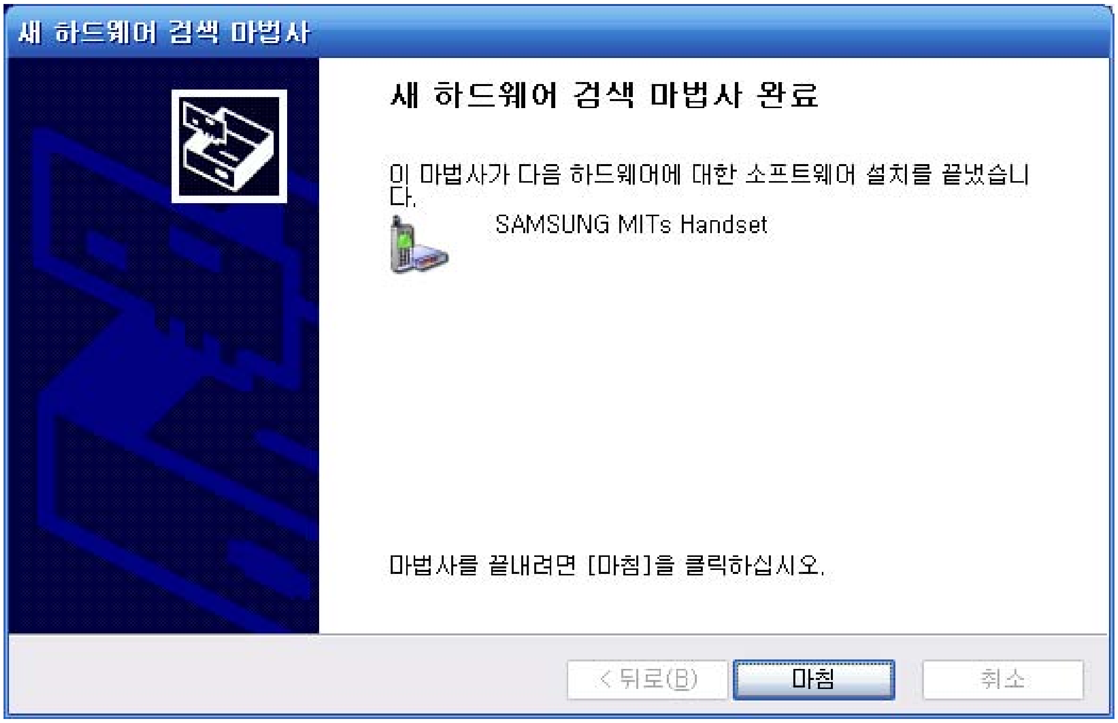


마법사가 소프트웨어를 설치하는 동안 기다려 주십시오...

SAMSUNG MITs Handset

sec_mdfl.sys
C:₩WINDOWS₩system32₩DRIVERS(으)로

※ If this Window is not go to next step,
Just disconnect SGH-i200 and You can see the following Window.



새 하드웨어 검색 마법사 완료

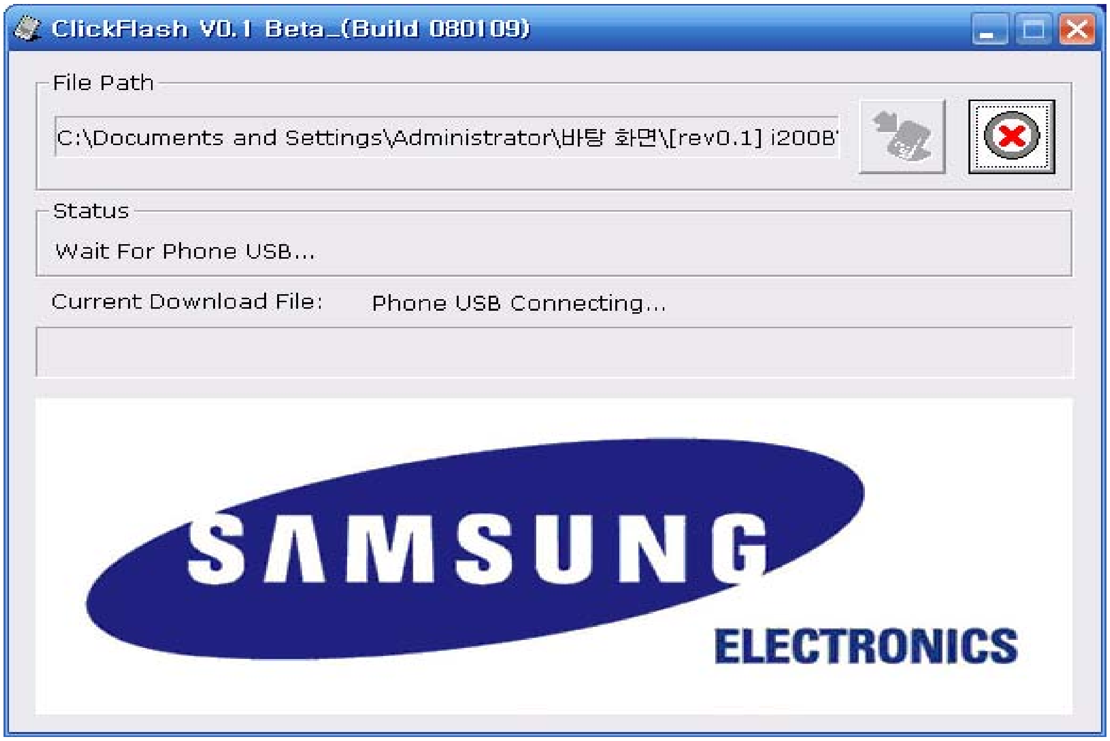
이 마법사가 다음 하드웨어에 대한 소프트웨어 설치를 끝냈습니다.

SAMSUNG MITs Handset

마법사를 끝내려면 [마침]을 클릭하십시오.

③ Flash Loader utility (Phone Driver)

- After Finished PDA Image Download,
  the computer will search Flash Loader utility associated with phone download.



ClickFlash V0.1 Beta_(Build 080109)

File Path

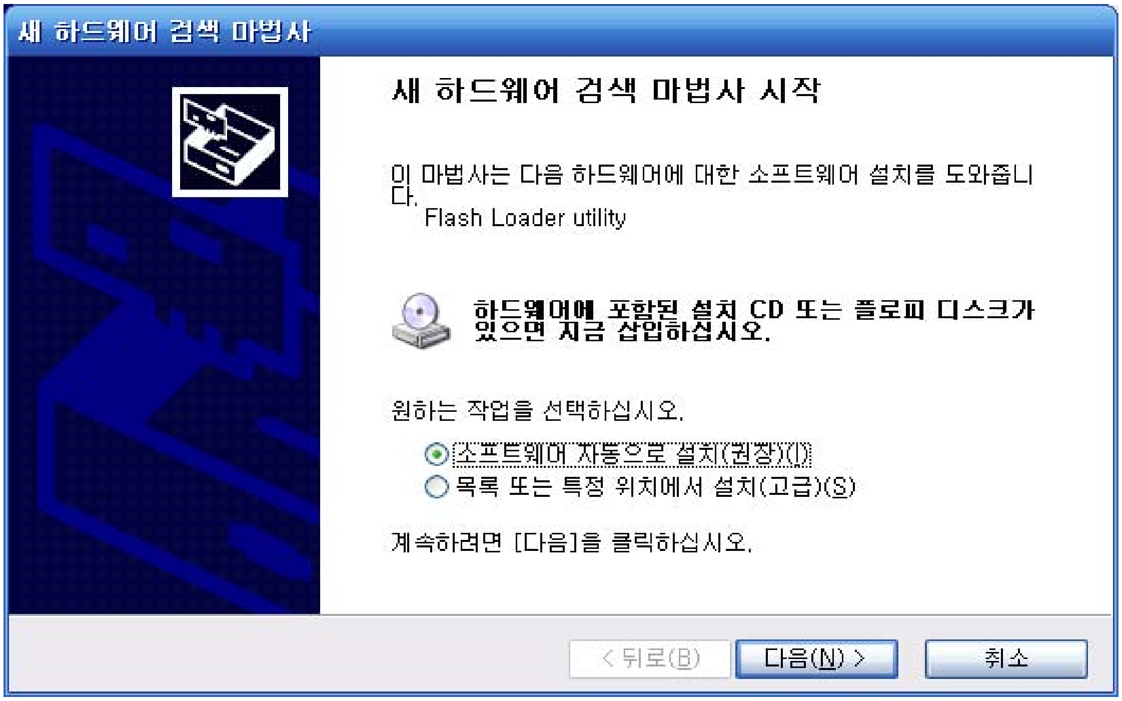
C:\Documents and Settings\Administrator\바탕 화면\[rev0.1] i200B'

Status

Wait For Phone USB...

Current Download File: Phone USB Connecting...

- This Window shows the moment from Downloading PDA image to Phone image.



새 하드웨어 검색 마법사

새 하드웨어 검색 마법사 시작

이 마법사는 다음 하드웨어에 대한 소프트웨어 설치를 도와줍니다.

Flash Loader utility

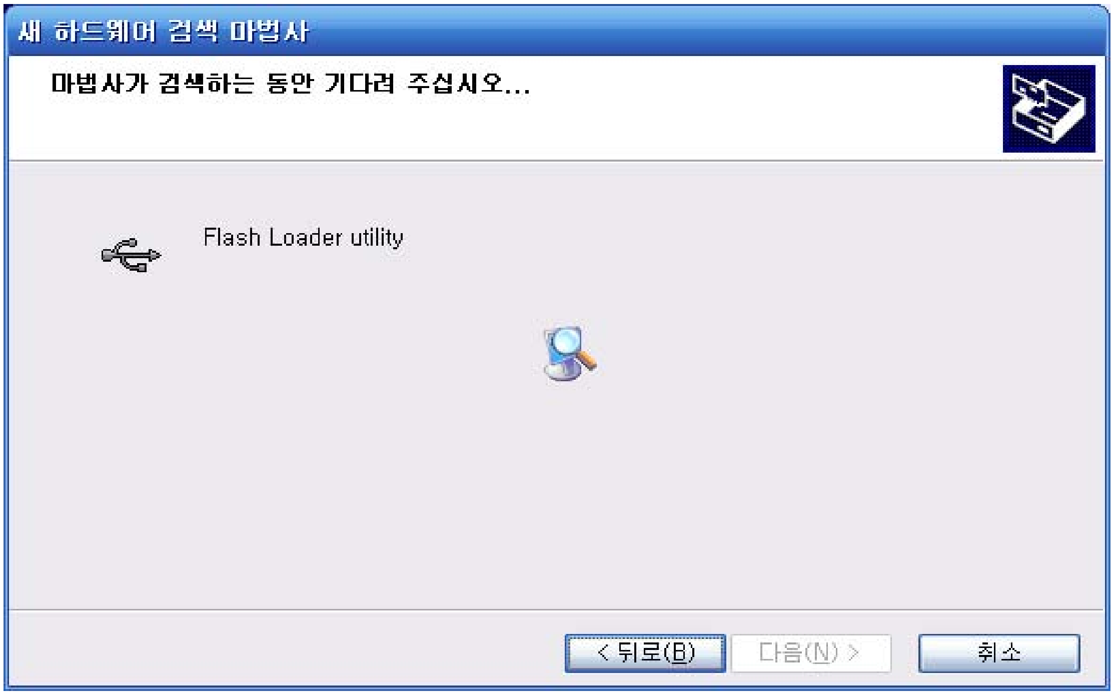
하드웨어에 포함된 설치 CD 또는 플로피 디스크가 있으면 지금 삽입하십시오.

원하는 작업을 선택하십시오.

● 소프트웨어 자동으로 설치(권장)(I)

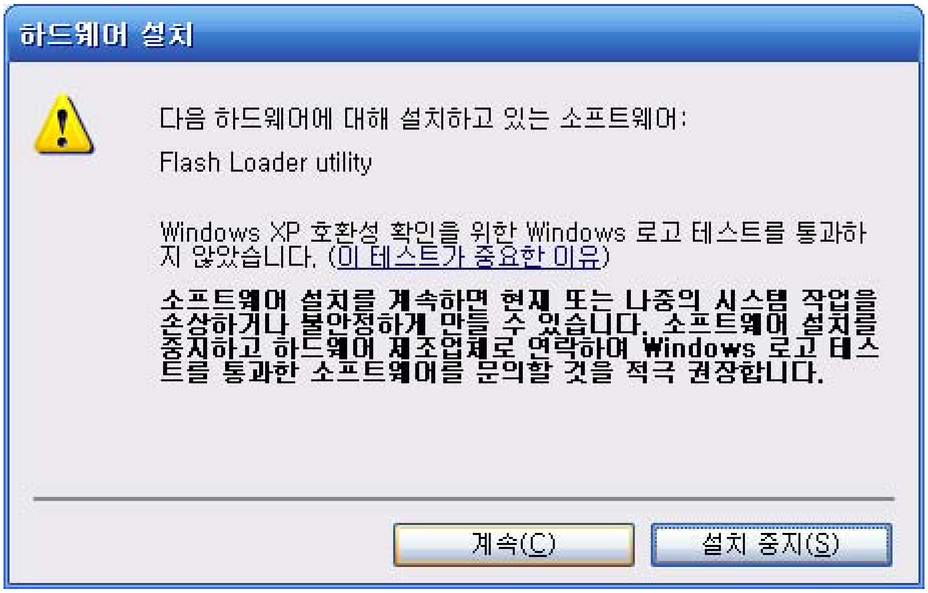
○ 목록 또는 특정 위치에서 설치(고급)(S)

계속하려면 [다음]을 클릭하십시오.



마법사가 검색하는 동안 기다려 주십시오...

Flash Loader utility

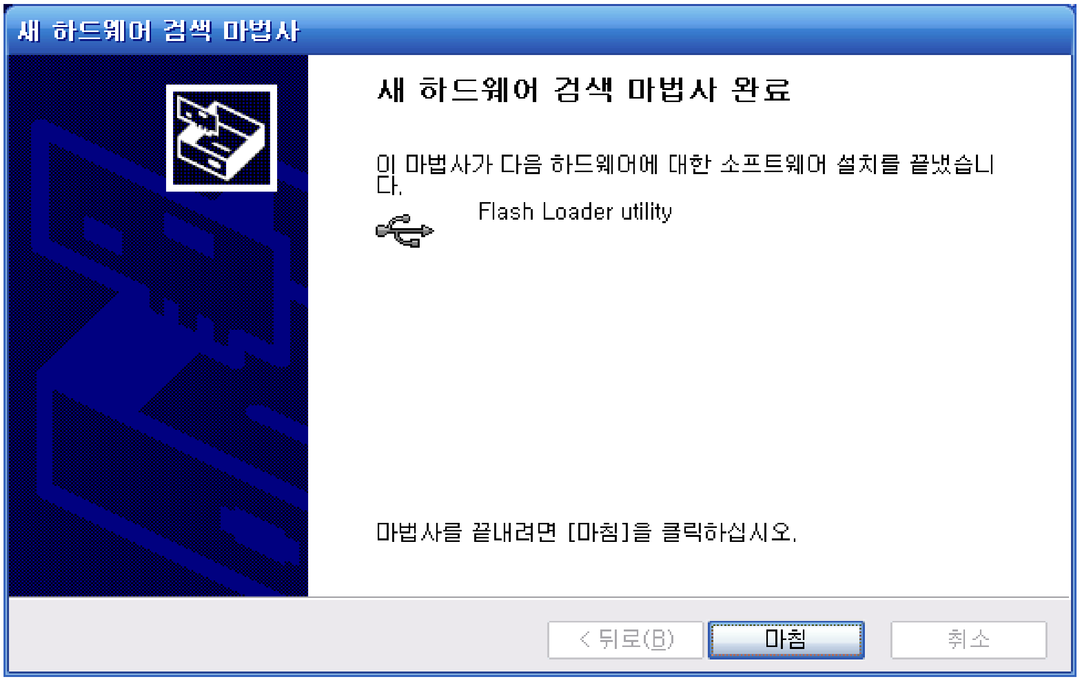


다음 하드웨어에 대해 설치하고 있는 소프트웨어:

Flash Loader utility

Windows XP 호환성 확인을 위한 Windows 로고 테스트를 통과하지 않았습니다. (이 테스트가 중요한 이유)

소프트웨어 설치를 계속하면 현재 또는 나중의 시스템 작업을 손상하거나 불안정하게 만들 수 있습니다. 소프트웨어 설치를 중지하고 하드웨어 제조업체로 연락하여 Windows 로고 테스트를 통과한 소프트웨어를 문의할 것을 적극 권장합니다.


새 하드웨어 검색 마법사
< 뒤로(B)
마침
취소

새 하드웨어 검색 마법사 완료

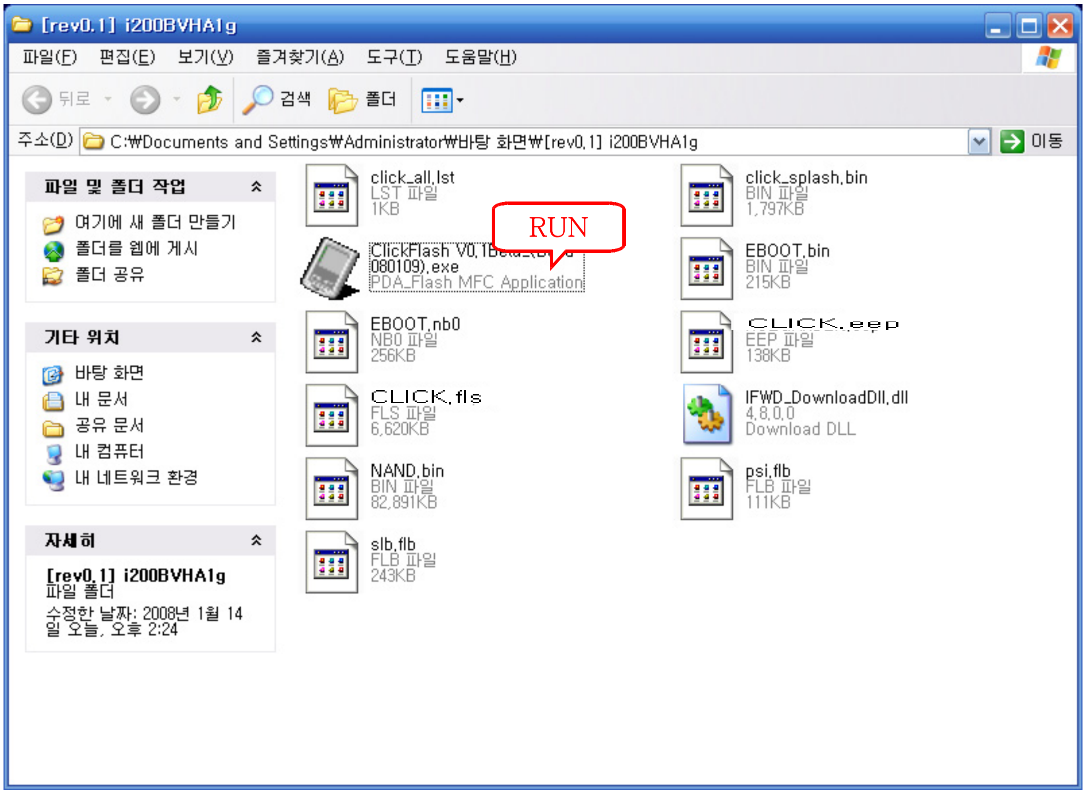
이 마법사가 다음 하드웨어에 대한 소프트웨어 설치를 끝냈습니다.

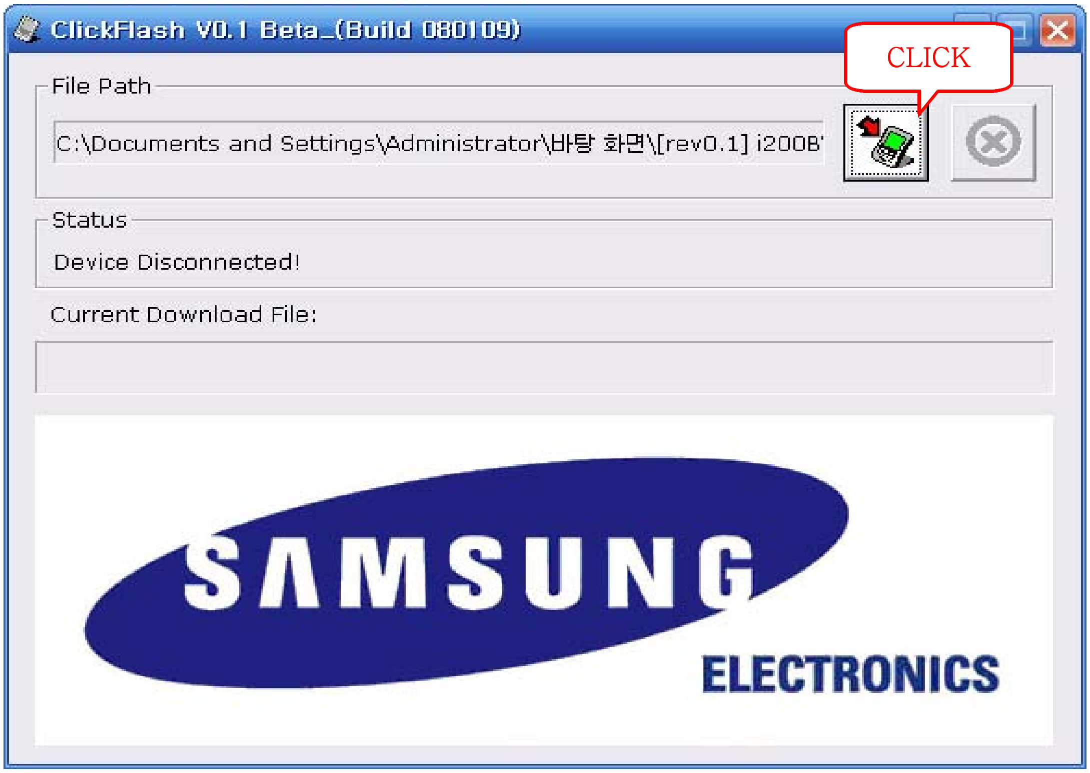
Flash Loader utility

마법사를 끝내려면 [마침]을 클릭하십시오.

4-3-3 Complete Downloading

- When you finish to set up all drivers, you DO Step 3.1 again. (If the computer still cannot find the drivers or cannot download, try again after rebooting.)

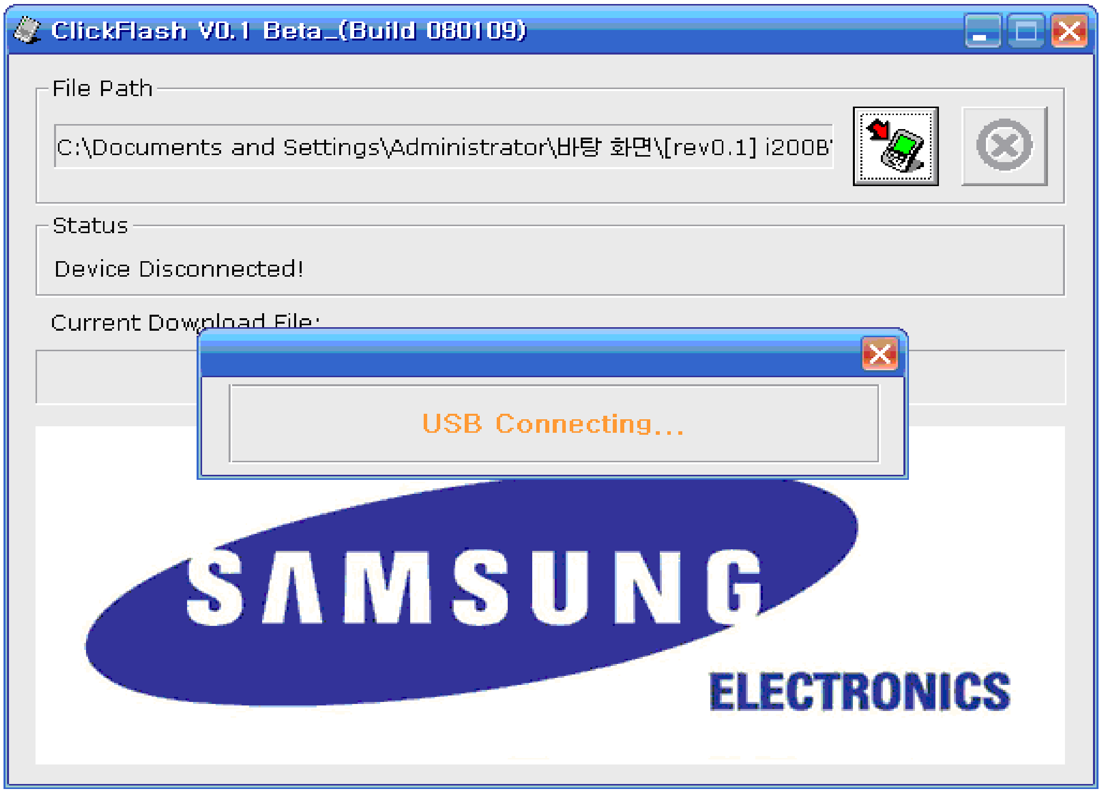

[rev0.1] i200BVHA1g
파일(F) 편집(E) 보기(V) 즐겨찾기(A) 도구(T) 도움말(H)
뒤로
검색
폴더
주소(D) C:₩Documents and Settings₩Administrator₩바탕 화면₩[rev0.1] i200BVHA1g
이동
파일 및 폴더 작업
여기에 새 폴더 만들기
폴더를 웹에 게시
폴더 공유
기타 위치
바탕 화면
내 문서
공유 문서
내 컴퓨터
내 네트워크 환경
자세히
[rev0.1] i200BVHA1g
파일 폴더
수정한 날짜: 2008년 1월 14일 오늘, 오후 2:24
click_all.lst
LST 파일
1KB
RUN
ClickFlash V0.1B
080109).exe
PDA_Flash MFC Application
EBOOT.nb0
NB0 파일
256KB
CLICK.fls
FLS 파일
6,620KB
NAND.bin
BIN 파일
82,891KB
slb.flb
FLB 파일
243KB
click_splash.bin
BIN 파일
1,797KB
EBOOT.bin
BIN 파일
215KB
CLICK.eep
EEP 파일
138KB
IFWD_DownloadDll.dll
4.8.0.0
Download DLL
psi.flb
FLB 파일
111KB


ClickFlash V0.1 Beta_(Build 080109)
CLICK
File Path
Status
Current Download File:
SAMSUNG
ELECTRONICS

C:\Documents and Settings\Administrator\바탕 화면\[rev0.1] i200B'

Device Disconnected!

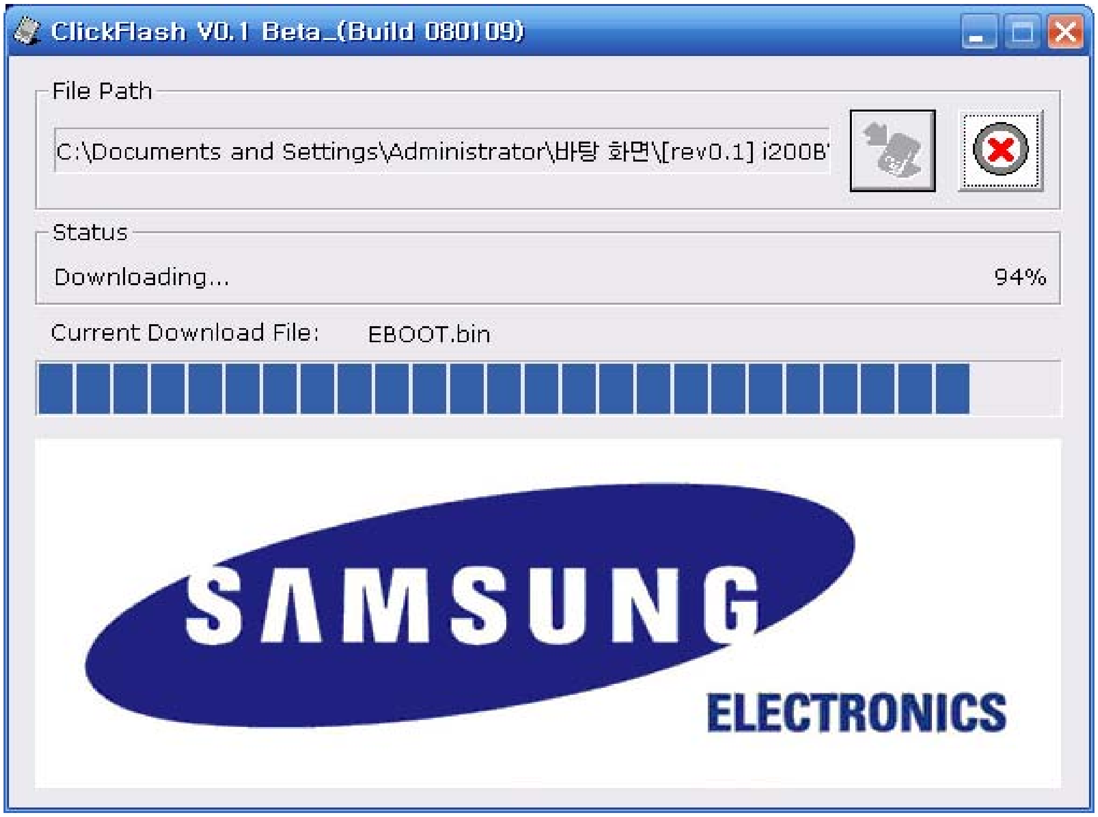
- Hold the BACK Key (Soft 2 Key) and Power ON
- Click the Download Start button after booting


ClickFlash V0.1 Beta_(Build 080109)
File Path
Status
Current Download File:
SAMSUNG
ELECTRONICS

C:\Documents and Settings\Administrator\바탕 화면\[rev0.1] i200B'

Device Disconnected!

USB Connecting...



ClickFlash V0.1 Beta_(Build 080109)

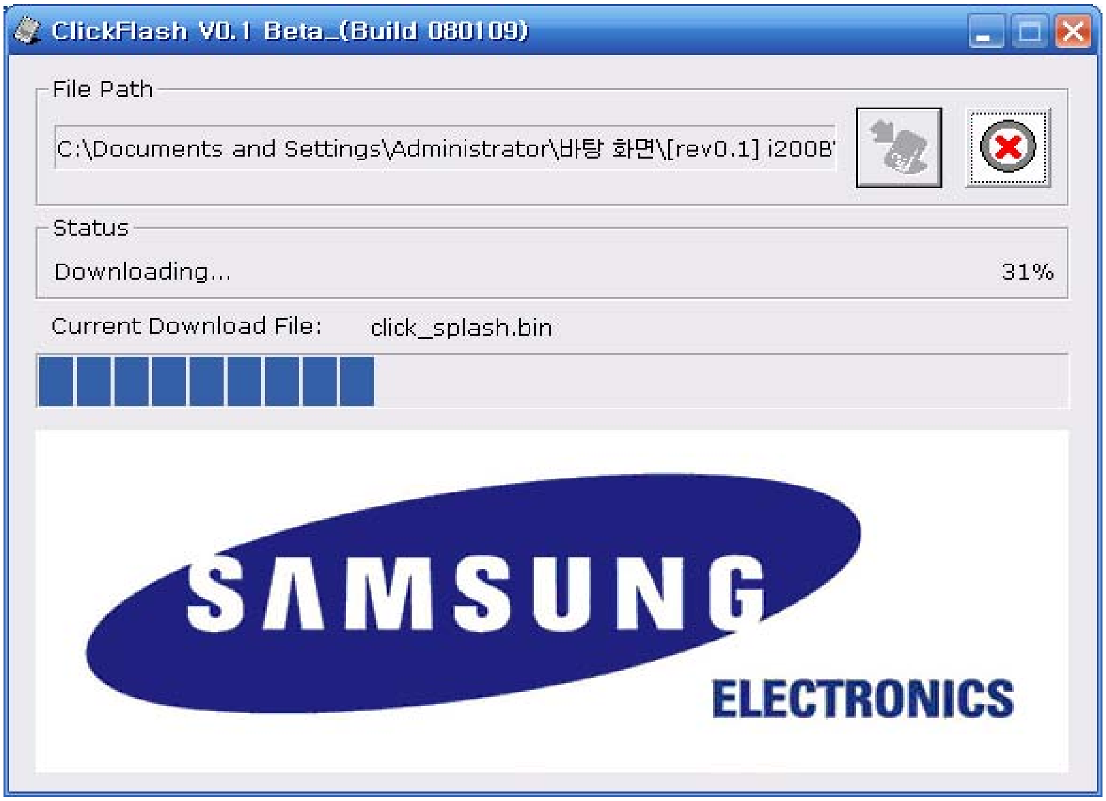
File Path

C:\Documents and Settings\Administrator\바탕 화면\[rev0.1] i200B'

Status

Downloading... 94%

Current Download File: EBOOT.bin



ClickFlash V0.1 Beta_(Build 080109)

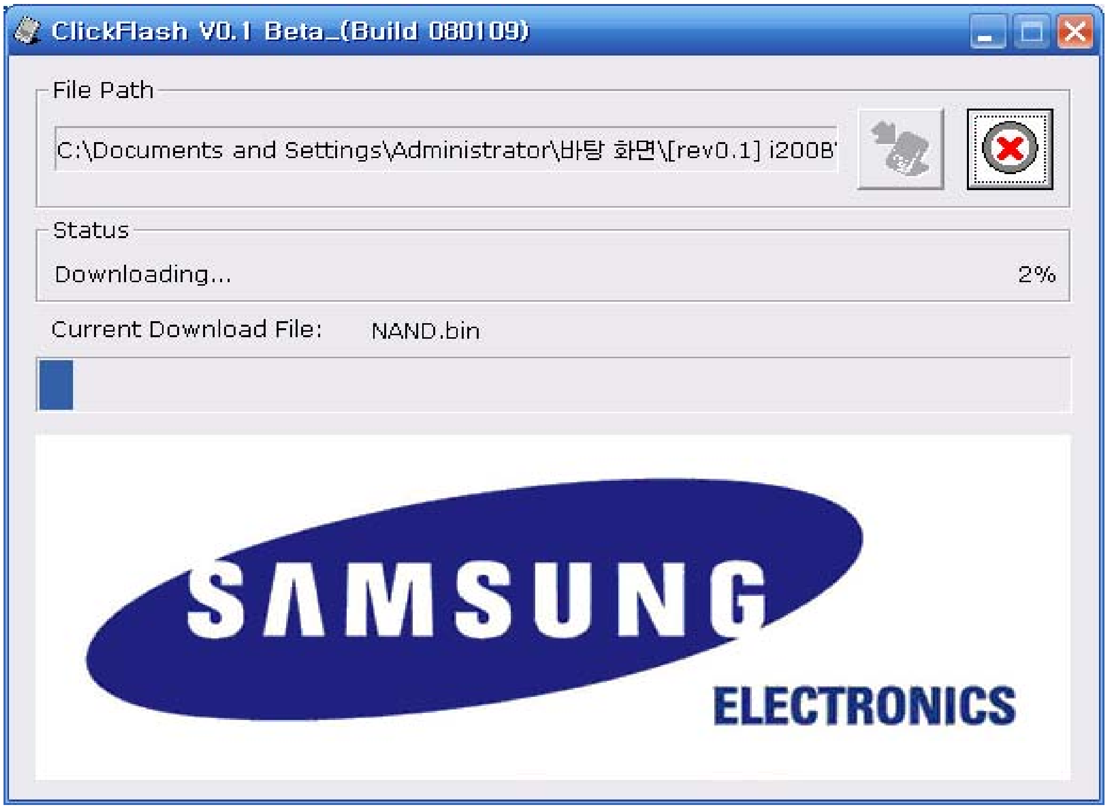
File Path

C:\Documents and Settings\Administrator\바탕 화면\[rev0.1] i200B'

Status

Downloading... 31%

Current Download File: click_splash.bin



ClickFlash V0.1 Beta_(Build 080109)

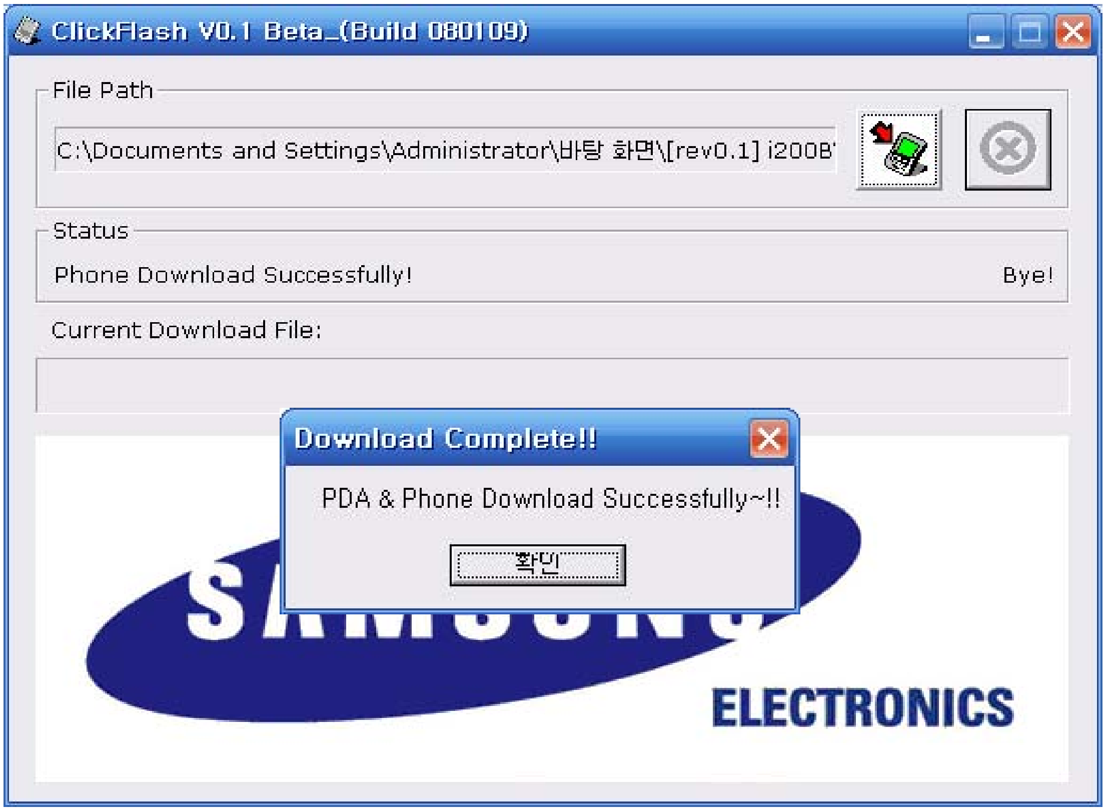
File Path

C:\Documents and Settings\Administrator\바탕 화면\[rev0.1] i200B'

Status

Downloading... 2%

Current Download File: NAND.bin



ClickFlash V0.1 Beta_(Build 080109)

File Path

C:\Documents and Settings\Administrator\바탕 화면\[rev0.1] i200B'

Status

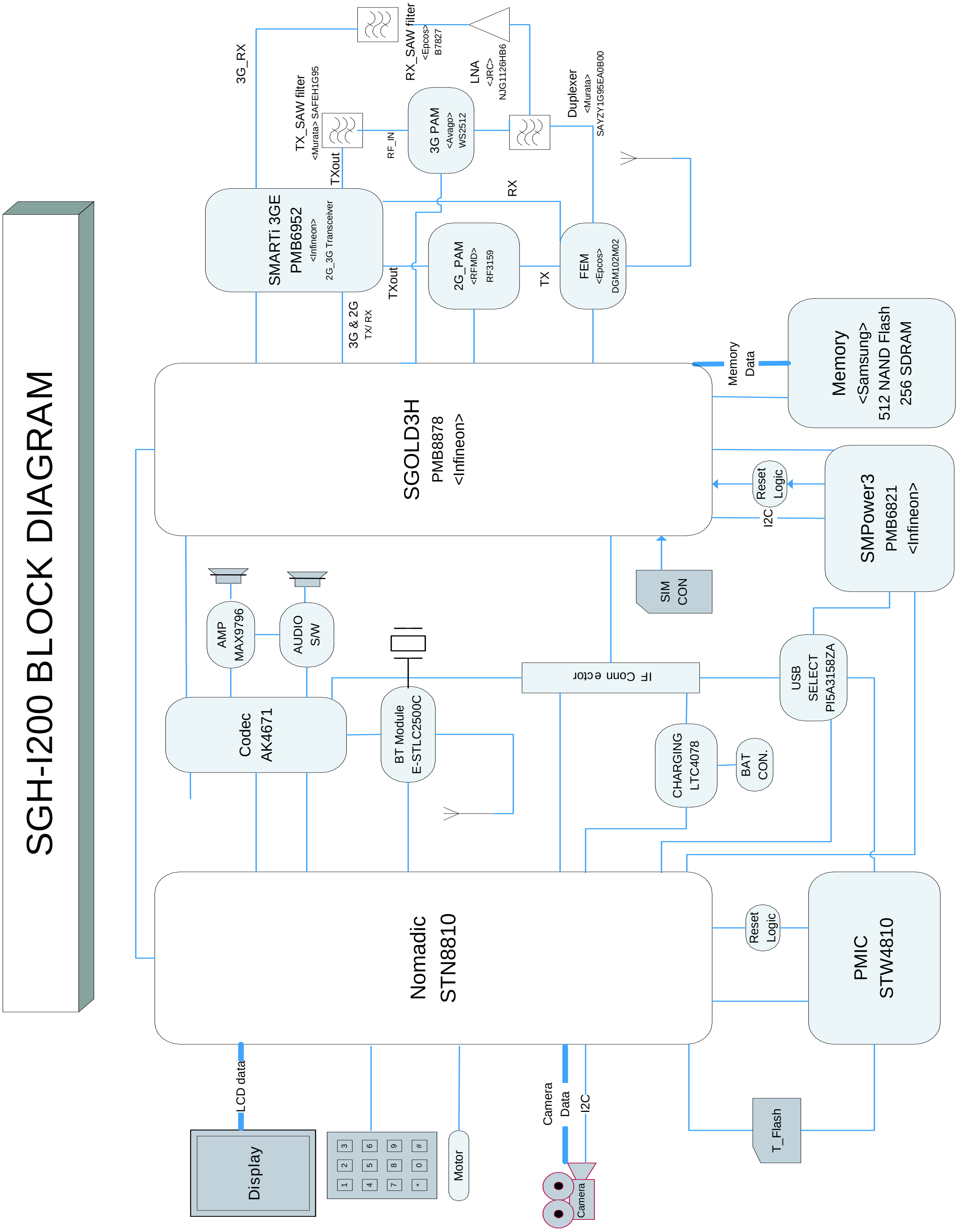
Phone Download Successfully! Bye!

Current Download File:

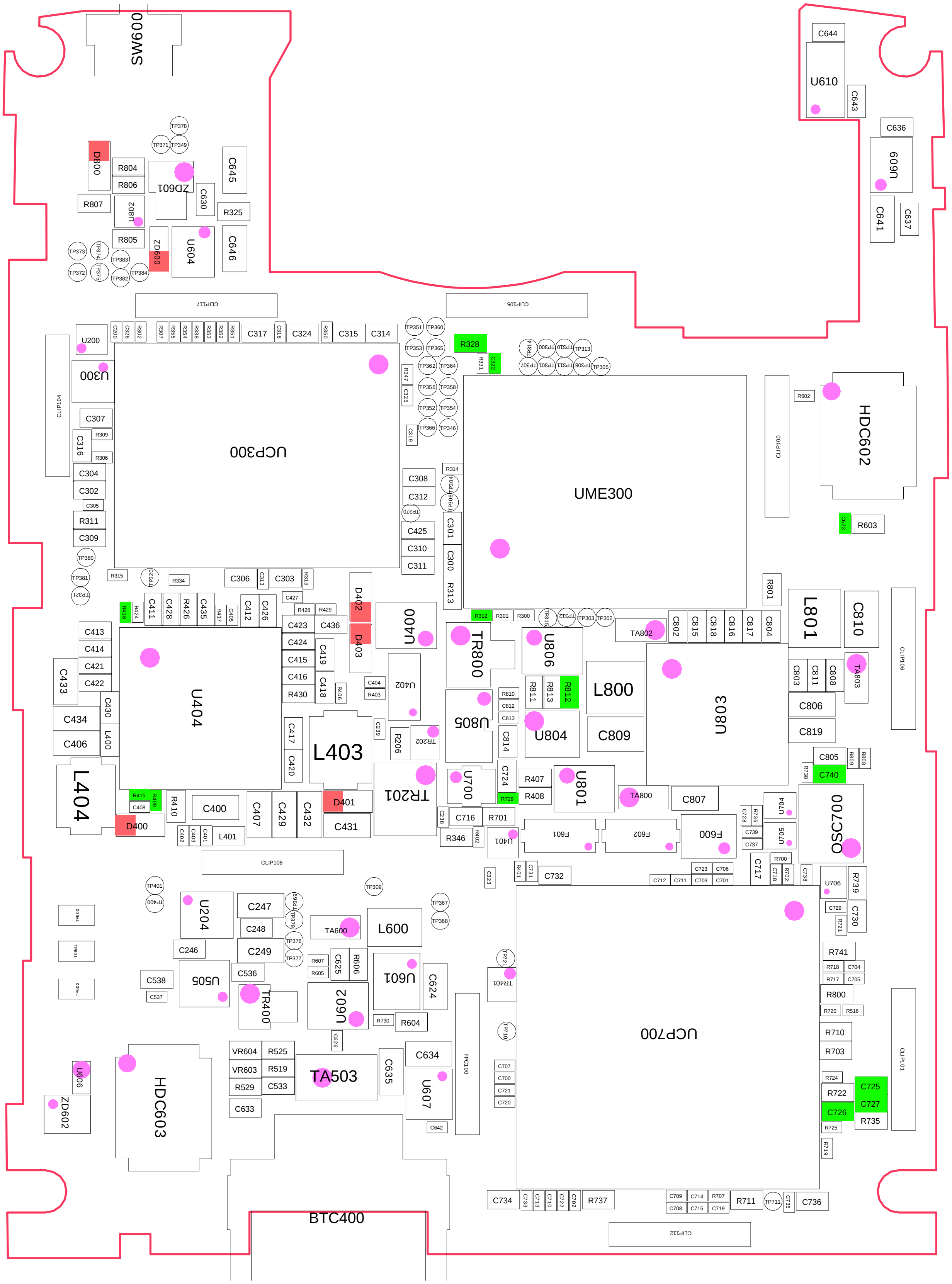
Download Complete!!

PDA & Phone Download Successfully~!!

8. Block Diagrams


SGH-I200 BLOCK DIAGRAM
3G_RX
TX_SAW filter
<Murata> SAFEH1G95
RX_SAW filter
<Epcos>
B7827
LNA
<JRC>
NJG1126HB6
Duplexer
<Murata>
SAYZY1G95EA0B00
TXout
RF_IN
3G PAM
<Avago>
WS2512
RX
SMARTi 3GE
PMB6952
<Infineon>
2G_3G Transceiver
2G_PAM
<RFMD>
RF3159
TX
FEM
<Epcos>
DGM102M02
TXout
3G & 2G
TX/ RX
Memory
Data
Memory
<Samsung>
512 NAND Flash
256 SDRAM
SGOLD3H
PMB8878
<Infineon>
Reset
Logic
I2C
SMPower3
PMB6821
<Infineon>
SIM
CON
AMP
MAX9796
AUDIO
S/W
IF Conn ector
USB
SELECT
PI5A3158ZA
Codec
AK4671
BT Module
E-STLC2500C
CHARGING
LTC4078
BAT
CON.
Nomadic
STN8810
Reset
Logic
PMIC
STW4810
LCD data
Display
1 2 3
4 5 6
7 8 9
* 0 #
Motor
Camera
Data
I2C
Camera
T_Flash

9. PCB Diagrams


SW600
D800
R804
R806
ZD601
C645
C630
R325
R807
U802
R805
ZD600
U604
C646
CLIP17
CLIP105
U200
U300
UCP300
C317
C324
C315
C314
R328
C307
C316
C304
C302
C305
R311
C309
UME300
HDC602
R602
R603
CLIP100
C308
C312
C425
C310
C311
C301
C300
R313
C306
C303
D402
D403
U400
C427
C423
C436
C424
C419
C415
C416
C418
R430
U402
C413
C414
C421
C422
C433
C434
C406
C430
L400
U404
L404
L403
C417
C420
R206
TR202
TR201
R415
R409
C408
R410
C400
D400
C407
C429
C432
D401
C431
L401
CLIP108
TR800
U806
R811
R813
R812
L800
U803
U805
U804
C809
C814
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U700
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R408
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C807
TA802
C802
C815
C818
C816
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C811
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TA803
C806
C819
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U705
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F602
F600
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R346
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U602
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VR604
R525
VR603
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R529
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C634
U607
C642
FPC100
HDC603
U606
ZD602
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BTC400
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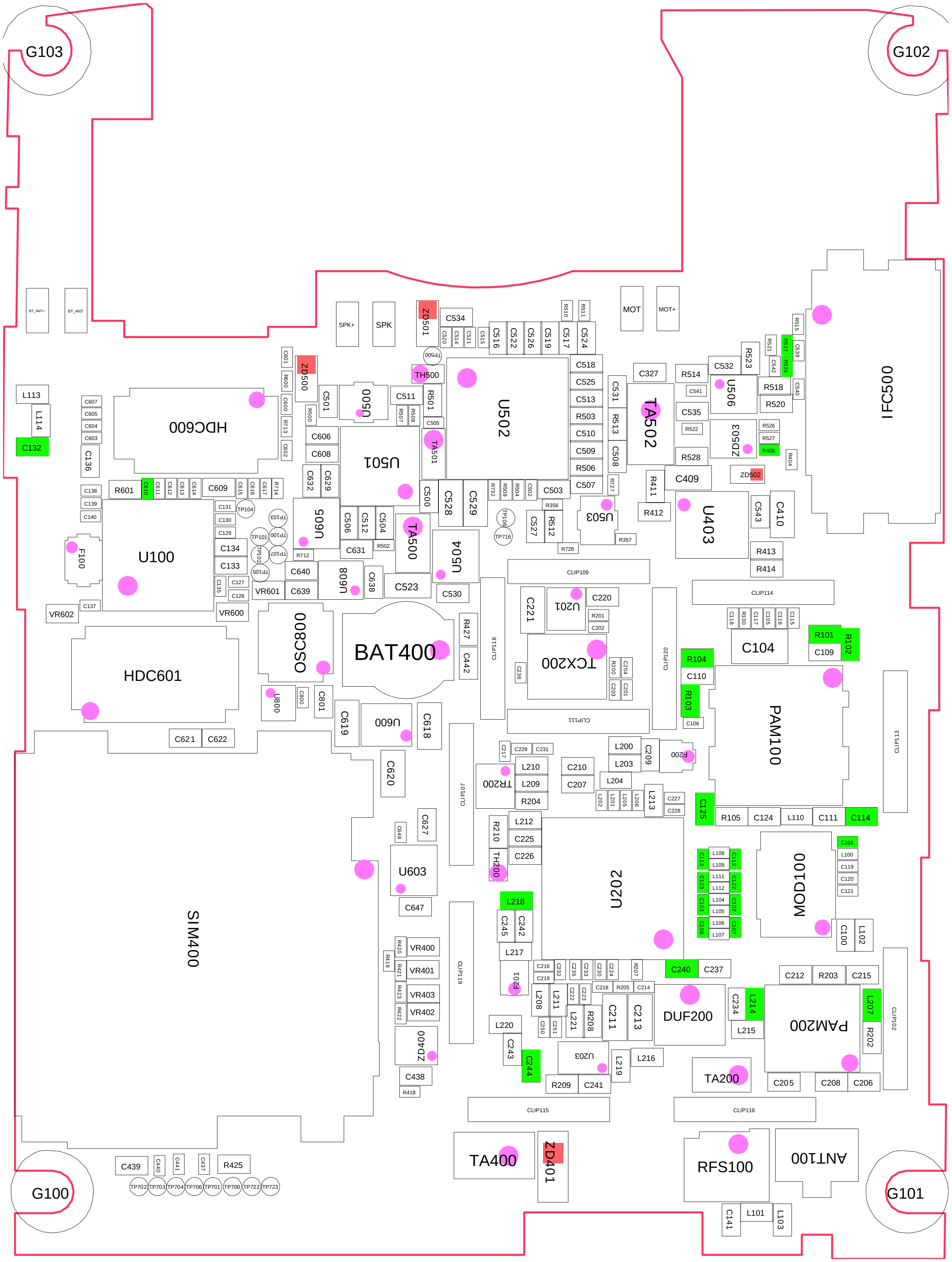
C636
U609
C641
C637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SPK
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MOT
MOT+
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HDC600
ZD500
U500
C511
U501
U502
TA501
TH500
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ZD503
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C133
VR602
VR600
HDC601
OSC800
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C110
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C245
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F201
L208
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R208
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C240
C237
DUF200
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R203
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PAM200
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R202
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C243
C244
U203
L219
L216
R209
C241
TA200
C205
C208
C206
SIM400
VR400
VR401
VR403
VR402
ZD400
C438
R418
TA400
ZD401
RFS100
ANT100
G100
G101
C439
R425
C141
L101
L103

3. Product Function

Main Function

- Windows Mobile
- Music Player
- Bluetooth
- Email
- SMS/MMS
- Internet Explorer
- Camera and Camcorder
- Video Telephony

11. Reference data

11-1. 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 specipicty 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 manetic 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 disassembing 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 easilly 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.

6. MAIN Electrical Parts List

SEC CODE	Design LOC	Discription
0401-001110	D800	DIODE-SWITCHING
0403-001547	ZD401	DIODE-ZENER
0404-001172	D400	DIODE-SCHOTTKY
0404-001172	D401	DIODE-SCHOTTKY
0404-001172	D402	DIODE-SCHOTTKY
0404-001172	D403	DIODE-SCHOTTKY
0406-001150	ZD500	DIODE-TVS
0406-001150	ZD501	DIODE-TVS
0406-001167	U506	DIODE-TVS
0406-001167	ZD503	DIODE-TVS
0406-001167	ZD602	DIODE-TVS
0406-001190	ZD400	DIODE-TVS
0406-001210	ZD600	DIODE-TVS
0406-001231	ZD502	DIODE-TVS
0407-000115	ZD601	DIODE-ARRAY
0407-001038	U400	DIODE-ARRAY
0501-002202	TR400	TR-SMALL SIGNAL
0504-001113	TR202	TR-DIGITAL
0504-001113	TR401	TR-DIGITAL
0504-001151	TR200	TR-DIGITAL
0505-001165	TR201	FET-SILICON
0505-001217	TR800	FET-GAAS
0801-000794	U806	IC-CMOS LOGIG
0801-002765	U801	IC-CMOS LOGIG
0801-002896	U602	IC-CMOS LOGIG
0801-002995	U802	IC-CMOS LOGIG
0801-003013	U300	IC-CMOS LOGIG
0801-003016	U401	IC-CMOS LOGIG
0801-003024	U706	IC-CMOS LOGIG
0801-003031	U200	IC-CMOS LOGIG
0801-003130	U800	IC-CMOS LOGIG
0801-003213	U704,U705	IC-CMOS LOGIG
0902-002238	UCP700	IC-MICROPROCESSOR
1001-001221	U402	IC-ANALOG SWITCH
1001-001410	U500	IC-ANALOG SWITCH
1001-001428	U503	IC-ANALOG MULTIPLEX
1003-002132	U700	IC-LEVEL DRIVER

SEC CODE	Design LOC	Discription
1108-000057	UME300	IC-MCP
1201-002423	PAM100	IC-POWER AMP
1201-002455	PAM200	IC-POWER AMP
1201-002559	U203	IC-MMIC AMP
1201-002692	U501	IC-AUDIO AMP
1203-002999	U804	IC-VOL . DETECTOR
1203-003253	U805	IC-BATTERY
1203-003531	U604	IC-POSI.FIXED REG.
1203-003643	U600	IC-MULTI REG.
1203-003787	U201	IC-POSI.FIXED REG.
1203-004172	U601	IC-DC/DC CONVERTER
1203-004395	U607	IC-POSI.FIXED REG.
1203-004435	U504	IC-MULTI REG.
1203-004458	U505,U603	IC-POSI.FIXED REG.
1203-004460	U204	IC-MULTI REG.
1203-004507	U605	IC-POSI.FIXED REG.
1203-004606	U609	IC-MULTI REG.
1203-004838	U403	IC-BATTERY
1203-004898	U803	IC-POWER SUPERVISOR
1203-004906	U404	IC-BATTERY
1203-004948	U608	IC-MULTI REG.
1205-003099	U202	IC-TRANSCEIVER
1205-003322	U100	IC-TRANSCEIVER
1205-003325	UCP300	IC-DATA COMM./GEN.
1205-003488	U502	IC-CODEC
1209-001748	U610	IC-SENSOR
1404-001165	TH200	THERMISTOR-NTC
1404-001221	TH500	THERMISTOR-NTC
1405-001093	VR400,VR401,VR402	VARISTOR
1405-001093	VR403,VR603,VR604	VARISTOR
1405-001133	VR600,VR601,VR602	VARISTOR
2007-000138	R512	R-CHIP
2007-000139	R513	R-CHIP
2007-000140	R528	R-CHIP
2007-000148	R203,R414,R801	R-CHIP
2007-000157	R410,R737,R739	R-CHIP
2007-000162	R407,R408,R701,R800	R-CHIP

SEC CODE	Design LOC	Discription
2007-000162	R805,R811	R-CHIP
2007-000165	R806	R-CHIP
2007-000167	R325	R-CHIP
2007-000170	R206	R-CHIP
2007-000171	R105,R202,R313,R430	R-CHIP
2007-000171	R601,R603,R703,R722	R-CHIP
2007-000171	R735,R807	R-CHIP
2007-000242	R346	R-CHIP
2007-000566	R813	R-CHIP
2007-001119	R519	R-CHIP
2007-001156	R412	R-CHIP
2007-001316	R208	R-CHIP
2007-003006	R518,R520	R-CHIP
2007-007107	R210,R426,R741,R804	R-CHIP
2007-007135	R710,R711	R-CHIP
2007-007136	R425	R-CHIP
2007-007139	R501	R-CHIP
2007-007142	R427,R503	R-CHIP
2007-007306	R209	R-CHIP
2007-007308	R606	R-CHIP
2007-007311	R311	R-CHIP
2007-007313	R506	R-CHIP
2007-007316	R411	R-CHIP
2007-007317	R529	R-CHIP
2007-007528	R514,R523,R525	R-CHIP
2007-007588	R413	R-CHIP
2007-007741	R605	R-CHIP
2007-007798	R204,R604	R-CHIP
2007-008045	R403,R500	R-CHIP
2007-008051	R314,R334	R-CHIP
2007-008052	R315,R338,R354,R355	R-CHIP
2007-008052	R504,R717,R718,R808	R-CHIP
2007-008052	R809	R-CHIP
2007-008055	R331,R418,R419,R420	R-CHIP
2007-008055	R421,R422,R423,R424	R-CHIP
2007-008055	R428,R429	R-CHIP
2007-008211	R200	R-CHIP

SEC CODE	Design LOC	Discription
2007-008419	R100,R402	R-CHIP
2007-008478	R347	R-CHIP
2007-008483	R607	R-CHIP
2007-008516	R201,R401,R502,R712	R-CHIP
2007-008516	R720	R-CHIP
2007-008531	R700	R-CHIP
2007-008542	R207,R302,R306,R307	R-CHIP
2007-008542	R309,R351,R352,R353	R-CHIP
2007-008542	R356,R357,R404,R406	R-CHIP
2007-008542	R417,R509,R515,R600	R-CHIP
2007-008542	R602,R702,R719,R721	R-CHIP
2007-008542	R724,R725,R727,R728	R-CHIP
2007-008542	R730,R732,R736,R738	R-CHIP
2007-008648	R350	R-CHIP
2007-009111	R300,R301,R319	R-CHIP
2007-009112	R707	R-CHIP
2007-009154	R510,R511	R-CHIP
2007-009157	R507,R508	R-CHIP
2007-009170	R516	R-CHIP
2007-009182	R810	R-CHIP
2007-009212	R521,R522,R526,R527	R-CHIP
2007-009315	R205	R-CHIP
2007-009408	R713,R714	R-CHIP
2203-000233	C205,C327	C-CER,CHIP
2203-000254	C246	C-CER,CHIP
2203-000386	C225	C-CER,CHIP
2203-000438	C206,C212,C215	C-CER,CHIP
2203-000627	C241	C-CER,CHIP
2203-000812	C100,C109,C110,C531	C-CER,CHIP
2203-000812	C532,C533,C534	C-CER,CHIP
2203-000854	C606,C608,C609,C633	C-CER,CHIP
2203-000854	U606	C-CER,CHIP
2203-001072	C242,C245	C-CER,CHIP
2203-001153	C237,C243	C-CER,CHIP
2203-001405	C535	C-CER,CHIP
2203-002709	C801,C802,C811,C814	C-CER,CHIP
2203-002709	C815	C-CER,CHIP

SEC CODE	Design LOC	Discription
2203-005053	C210	C-CER,CHIP
2203-005234	C124,C234	C-CER,CHIP
2203-005288	C141,C209	C-CER,CHIP
2203-005446	C111	C-CER,CHIP
2203-005482	C420,C428,C436,C716	C-CER,CHIP
2203-005682	C437,C440,C539	C-CER,CHIP
2203-005682	C540,C600,C601,C602	C-CER,CHIP
2203-005682	C603,C604,C605,C607	C-CER,CHIP
2203-005682	C611,C612,C613,C614	C-CER,CHIP
2203-005682	C615,C616,C617	C-CER,CHIP
2203-005683	C541,C542	C-CER,CHIP
2203-005717	C106,C115,C116,C117	C-CER,CHIP
2203-005725	C119,C120,C121,C319	C-CER,CHIP
2203-005727	C251	C-CER,CHIP
2203-005729	C217,C219,C227,C441	C-CER,CHIP
2203-005736	C203,C729,C731,C733	C-CER,CHIP
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2203-005806	C201,C235,C236	C-CER,CHIP
2203-005808	C105	C-CER,CHIP
2203-005968	C508	C-CER,CHIP
2203-006048	C500,C509,C530,C630	C-CER,CHIP
2203-006048	C632	C-CER,CHIP
2203-006121	C642	C-CER,CHIP
2203-006137	C517,C524	C-CER,CHIP
2203-006187	C230	C-CER,CHIP
2203-006194	C202	C-CER,CHIP
2203-006208	C528,C529,C619,C620	C-CER,CHIP
2203-006257	C442,C625,C805	C-CER,CHIP
2203-006260	C133,C134,C136,C226	C-CER,CHIP
2203-006260	C300,C302,C306,C315	C-CER,CHIP
2203-006260	C324,C421,C423,C426	C-CER,CHIP
2203-006260	C507,C518,C525	C-CER,CHIP
2203-006324	C221,C618,C635,C641	C-CER,CHIP
2203-006324	C806,C807	C-CER,CHIP
2203-006348	C409,C410,C624	C-CER,CHIP
2203-006423	C127,C128,C129,C130	C-CER,CHIP
2203-006423	C131,C200,C204,C218	C-CER,CHIP

SEC CODE	Design LOC	Discription
2203-006423	C222,C223,C228,C229	C-CER,CHIP
2203-006423	C231,C232,C233,C239	C-CER,CHIP
2203-006423	C318,C326,C404,C408	C-CER,CHIP
2203-006423	C427,C502,C505,C514	C-CER,CHIP
2203-006423	C515,C520,C521,C626	C-CER,CHIP
2203-006423	C700,C701,C702,C703	C-CER,CHIP
2203-006423	C704,C705,C706,C707	C-CER,CHIP
2203-006423	C708,C709,C710,C711	C-CER,CHIP
2203-006423	C712,C713,C714,C715	C-CER,CHIP
2203-006423	C719,C720,C721,C722	C-CER,CHIP
2203-006423	C723,C728,C737,C738	C-CER,CHIP
2203-006423	C800	C-CER,CHIP
2203-006562	C208,C220,C248,C301	C-CER,CHIP
2203-006562	C303,C304,C307,C308	C-CER,CHIP
2203-006562	C309,C310,C311,C312	C-CER,CHIP
2203-006562	C314,C316,C317,C417	C-CER,CHIP
2203-006562	C418,C419,C422,C425	C-CER,CHIP
2203-006562	C430,C438,C439,C717	C-CER,CHIP
2203-006562	C803,C804,C808,C816	C-CER,CHIP
2203-006562	C817,C818	C-CER,CHIP
2203-006626	C511,C730,C732,C734	C-CER,CHIP
2203-006626	C736	C-CER,CHIP
2203-006647	C214	C-CER,CHIP
2203-006648	C305,C313	C-CER,CHIP
2203-006668	C118	C-CER,CHIP
2203-006681	C207,C527,C543,C724	C-CER,CHIP
2203-006712	C323,C325	C-CER,CHIP
2203-006824	C523,C634,C819	C-CER,CHIP
2203-006825	C211,C213,C247,C249	C-CER,CHIP
2203-006825	C429,C431,C432,C433	C-CER,CHIP
2203-006825	C434	C-CER,CHIP
2203-006838	C412,C413,C414,C415	C-CER,CHIP
2203-006838	C416,C424,C503,C510	C-CER,CHIP
2203-006838	C538,C627	C-CER,CHIP
2203-006839	C238,C250,C401,C405	C-CER,CHIP
2203-006839	C537,C648,C812,C813	C-CER,CHIP
2203-006841	C411,C435,C501,C504	C-CER,CHIP

SEC CODE	Design LOC	Discription
2203-006841	C506,C512,C513,C516	C-CER,CHIP
2203-006841	C519,C522,C526,C536	C-CER,CHIP
2203-006841	C621,C622,C629,C631	C-CER,CHIP
2203-006841	C636,C637,C638,C639	C-CER,CHIP
2203-006841	C640,C643,C644,C647	C-CER,CHIP
2203-006896	C718	C-CER,CHIP
2203-006979	C402,C403,C739	C-CER,CHIP
2203-007147	C809,C810	C-CER,CHIP
2203-007210	C135,C137,C138,C139	C-CER,CHIP
2203-007210	C140,C216,C224	C-CER,CHIP
2203-007269	C104	C-CER,CHIP
2203-007270	C400,C406,C407,C645	C-CER,CHIP
2203-007270	C646	C-CER,CHIP
2404-001151	TA502,TA503	C-TA,CHIP
2404-001381	TA501,TA600,TA800	C-TA,CHIP
2404-001381	TA802,TA803	C-TA,CHIP
2404-001406	TA400	C-TA,CHIP
2404-001415	TA500	C-TA,CHIP
2404-001496	TA200	C-TA,CHIP
2703-001178	L113,L216,L217	INDUCTOR-SMD
2703-001733	L103,L220	INDUCTOR-SMD
2703-001750	L101	INDUCTOR-SMD
2703-002205	L200,L203	INDUCTOR-SMD
2703-002281	L219,L221	INDUCTOR-SMD
2703-002314	L102	INDUCTOR-SMD
2703-002368	L114	INDUCTOR-SMD
2703-002369	L215	INDUCTOR-SMD
2703-002558	L204	INDUCTOR-SMD
2703-002649	L100	INDUCTOR-SMD
2703-002768	L404	INDUCTOR-SMD
2703-002793	L104,L105,L106,L107	INDUCTOR-SMD
2703-002795	L202,L206	INDUCTOR-SMD
2703-002815	L110	INDUCTOR-SMD
2703-002824	L600	INDUCTOR-SMD
2703-002901	L108,L109,L111,L112	INDUCTOR-SMD
2703-003125	L201,L205	INDUCTOR-SMD
2703-003378	L403	INDUCTOR-SMD

SEC CODE	Design LOC	Discription
2703-003409	L800,L801	INDUCTOR-SMD
2804-001700	OSC800	OSCILLATOR-CLOCK(32.768KHZ)
2804-001796	OSC700	OSCILLATOR-CLOCK 19.2MHz
2809-001315	TCX200	**OSCILLATOR-VCTCXO 26MHz**
2901-001320	F600	**FILTER-EMI/ESD**
2901-001480	F601,F602	**FILTER-EMI/ESD**
2904-001815	F100	FILTER-SAW
2904-001833	F201	FILTER-SAW
2904-001835	F200	**FILTER-SAW**
2910-000039	DUF200	**DUPLEXER-FBAR**
2911-000108	MOD100	DUPLEXER-FEM
3301-001342	L208,L209,L210,L211	**BEAD-SMD**
3301-001342	L212,L213,L400,L401	**BEAD-SMD**
3404-001303	SW600	SWITCH-TACT
3705-001225	ANT100	CONNECTOR-COAXIAL
3705-001503	RFS100	CONNECTOR-COAXIAL
3708-002222	HDC600	CONNECTOR-FPC/FFC/PIC
3709-001453	SIM400	CONNECTOR-CARD EDGESIM/Micro SD
3710-002499	IFC500	SOCKET-INTERFACE 20pin
3711-005954	HDC602,HDC603	HEADER-BOARD TO BOARD 24pin
3711-006108	BTC400	HEADER-BATTERY
3711-006119	HDC601	HEADER-BOARD TO BOARD 34pin
4302-001184	BAT400	BATTERY-LI(2ND)
GH70-03349A	CLIP100,CLIP101	IPR SHIELD-CAN CLIP
GH70-03349A	CLIP102,CLIP104	IPR SHIELD-CAN CLIP
GH70-03349A	CLIP105,CLIP106	IPR SHIELD-CAN CLIP
GH70-03349A	CLIP107,CLIP108	IPR SHIELD-CAN CLIP
GH70-03349A	CLIP109,CLIP111	IPR SHIELD-CAN CLIP
GH70-03349A	CLIP112,CLIP113	IPR SHIELD-CAN CLIP
GH70-03349A	CLIP114,CLIP115	IPR SHIELD-CAN CLIP
GH70-03349A	CLIP116,CLIP117	IPR SHIELD-CAN CLIP
GH70-03349A	CLIP118,CLIP119	IPR SHIELD-CAN CLIP
GH70-03349A	CLIP120,FPC100	IPR SHIELD-CAN CLIP

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

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