

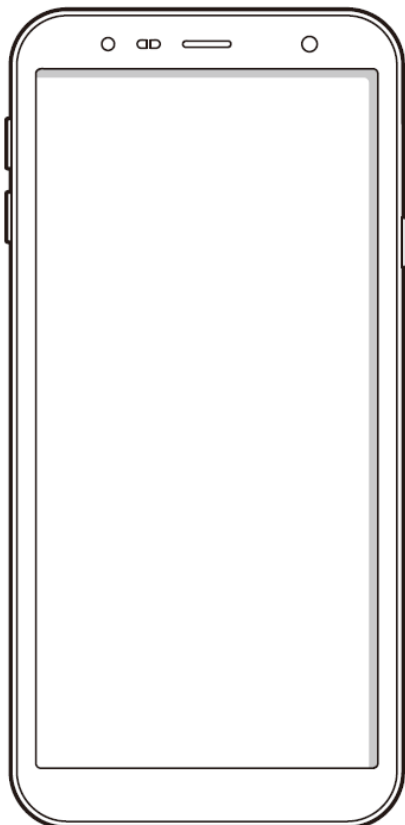
# SAMSUNG

## Mobile Device SM-J410F/G Common

# ***SERVICE*** ***Manual***

Mobile Device

CONTENTS



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

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

---

# 1. Safety Precautions

---

## 1-1. Repair Precaution

Before attempting any repair or detailed tuning, shield the device from RF noise or static electricity discharges.

Use only demagnetized tools that are specifically designed for small electronic repairs, as most electronic parts are sensitive to electromagnetic forces.

Use only high quality screwdrivers when servicing products. Low quality screwdrivers can easily damage the heads of screws.

Use only conductor wire of the properly gauge and insulation for low resistance, because of the low margin of error of most testing equipment.

We recommend 22-gauge twisted copper wire.

Hand-soldering is not recommended, because printed circuit boards (PCBs) can be easily damaged, even with relatively low heat. Never use a soldering iron with a power rating of more than 100 watts and use only lead-free solder with a melting point below 250°C (482°F).

Prior to disassembling the battery charger for repair, ensure that the AC power is disconnected.

Always use the replacement parts that are registered in the SEC system. Third-party replacement parts may not function properly.

---

# 1. Safety Precautions

---

## 1-2. ESD(Electrostatically Sensitive Devices) Precaution

Many semiconductors and ESDs in electronic devices are particularly sensitive to static discharge and can be easily damaged by it. We recommend protecting these components with conductive anti-static bags when you store or transport them.

Always use an anti-static strap or wristband and remove electrostatic buildup or dissipate static electricity from your body before repairing ESDs.

Ensure that soldering irons have AC adapter with ground wires and that the ground wires are properly connected.

Use only desoldering tools with plastic tips to prevent static discharge.

Properly shield the work environment from accidental electrostatic discharge before opening packages containing ESDs.

The potential for static electricity discharge may be increased in low humidity environments, such as air-conditioned rooms. Increase the airflow to the working area to decrease the chance of accidental static electricity discharges.

---

## 2. Specification

---

### 2-1. GSM General Specification

Item		GSM 850	EGSM 900	DCS1800	PCS1900
Freq. Band[MHz]		824~849	880~915	1710~1785	1850~1910
Uplink/Downlink		869~894	925~960	1805~1880	1930~1990
ARFCN range		128~251	0~124 & 975~1023	512~885	512~810
Tx/Rx spacing		45MHz	45MHz	95MHz	80MHz
Mod. Bit rate/ Bit Period		270.833kbps 3.692us	270.833kbps 3.692us	270.833kbps 3.692us	270.833kbps 3.692us
Time Slot Period/ Frame Period		576.9us 4.615ms	576.9us 4.615ms	576.9us 4.615ms	576.9us 4.615ms
Modulation	GSM/ EGPRS	GMSK/ 8PSK	GMSK/ 8PSK	GMSK/ 8PSK	GMSK/ 8PSK
MS Power		33dBm~5dBm	33dBm~5dBm	30dBm~0dBm	30dBm~0dBm
Power Class		4(GMSK) E2(8PSK)	4(GMSK) E2(8PSK)	1(GMSK) E2(8PSK)	1(GMSK) E2(8PSK)
Sensitivity		-102dBm	-102dBm	-100dBm	-100dBm
TDMA Mux		8	8	8	8



---

## 2. Specification

---

### 2-2. GSM Tx Power Class

<b>TX Power control level</b>	<b>GSM850</b>	<b>TX Power control level</b>	<b>EGSM900</b>	<b>TX Power control level</b>	<b>DCS1800</b>	<b>TX Power control level</b>	<b>PCS1900</b>
5	33±2 dBm	5	33±2 dBm	0	30±3 dBm	0	30±3 dBm
6	31±2 dBm	6	31±2 dBm	1	28±3 dBm	1	28±3 dBm
7	29±2 dBm	7	29±2 dBm	2	26±3 dBm	2	26±3 dBm
8	27±2 dBm	8	27±2 dBm	3	24±3 dBm	3	24±3 dBm
9	25±2 dBm	9	25±2 dBm	4	22±3 dBm	4	22±3 dBm
10	23±2 dBm	10	23±2 dBm	5	20±3 dBm	5	20±3 dBm
11	21±2 dBm	11	21±2 dBm	6	18±3 dBm	6	18±3 dBm
12	19±2 dBm	12	19±2 dBm	7	16±3 dBm	7	16±3 dBm
13	17±2 dBm	13	17±2 dBm	8	14±3 dBm	8	14±3 dBm
14	15±2 dBm	14	15±2 dBm	9	12±4 dBm	9	12±4 dBm
15	13±2 dBm	15	13±2 dBm	10	10±4 dBm	10	10±4 dBm
16	11±3 dBm	16	11±3 dBm	11	8±4 dBm	11	8±4 dBm
17	9±3 dBm	17	9±3 dBm	12	6±4 dBm	12	6±4 dBm
18	7±3 dBm	18	7±3 dBm	13	4±4 dBm	13	4±4 dBm
19	5±3 dBm	19	5±3 dBm	14	2±5 dBm	14	2±5 dBm
-	-	-	-	15	0±5 dBm	15	0±5 dBm

---

## 2. Specification

---

### 2-3-1. WCDMA General Specification [SM-J410F]

Item	WCDMA2100(B1)	WCDMA1900(B2)	WCDMA850(B5)	WCDMA900(B8)
Freq. Band[MHz] Uplink/Downlink	1920~1980 2110~2170	1850~1910 1930~1990	824~849 869~894	880~915 925~960
ARFCN range	UL: 9612~9888 DL: 10562~10838	UL: 9262~9538 DL: 9662~9938	UL: 4132~4233 DL: 4357~4458	UL: 2712~2868 DL: 2937~3088
Tx/Rx spacing	190MHz	80MHz	45MHz	45MHz
Mod. Bit rate/ Bit Period	42.2Mbps(DL) 5.42Mbps(UL)	42.2Mbps(DL) 5.42Mbps(UL)	42.2Mbps(DL) 5.42Mbps(UL)	42.2Mbps(DL) 5.42Mbps(UL)
Time Slot Period/ Frame Period	WCDMA 10ms/0.667ms HSPA 2ms/0.667ms	WCDMA 10ms/0.667ms HSPA 2ms/0.667ms	WCDMA 10ms/0.667ms HSPA 2ms/0.667ms	WCDMA 10ms/0.667ms HSPA 2ms/0.667ms
Modulation	QPSK 16QAM 64QAM	QPSK 16QAM 64QAM	QPSK 16QAM 64QAM	QPSK 16QAM 64QAM
MS Power (dBm)	25.7 ~ -49(↓)	25.7 ~ -49(↓)	25.7 ~ -49(↓)	25.7 ~ -49(↓)
Power Class	3(max+24dBm)	3(max+24dBm)	3(max+24dBm)	3(max+24dBm)
Sensitivity	-106dBm	-104dBm	-104dBm	-103dBm

---

## 2. Specification

---

### 2-3-2. WCDMA General Specification [SM-J410G]

Item	WCDMA2100(B1)	WCDMA1900(B2)	WCDMA AWS(B4)	WCDMA850(B5)	WCDMA900(B8)
Freq. Band[MHz]	1920~1980	1850~1910	1710~1755	824~849	880~915
Uplink/Downlink	2110~2170	1930~1990	2110~2155	869~894	925~960
ARFCN range	UL: 9612~9888 DL: 10562~10838	UL: 9262~9538 DL: 9662~9938	UL: 1312~1513 DL: 1537~1738	UL: 4132~4233 DL: 4357~4458	UL: 2712~2868 DL: 2937~3088
Tx/Rx spacing	190MHz	80MHz	400MHz	45MHz	45MHz
Mod. Bit rate/ Bit Period	42.2Mbps(DL) 5.42Mbps(UL)	42.2Mbps(DL) 5.42Mbps(UL)	42.2Mbps(DL) 5.42Mbps(UL)	42.2Mbps(DL) 5.42Mbps(UL)	42.2Mbps(DL) 5.42Mbps(UL)
Time Slot Period/ Frame Period	WCDMA 10ms/0.667ms HSPA 2ms/0.667ms	WCDMA 10ms/0.667ms HSPA 2ms/0.667ms	WCDMA 10ms/0.667ms HSPA 2ms/0.667ms	WCDMA 10ms/0.667ms HSPA 2ms/0.667ms	WCDMA 10ms/0.667ms HSPA 2ms/0.667ms
Modulation	QPSK 16QAM 64QAM	QPSK 16QAM 64QAM	QPSK 16QAM 64QAM	QPSK 16QAM 64QAM	QPSK 16QAM 64QAM
MS Power (dBm)	25.7 ~ -49(↓)	25.7 ~ -49(↓)	25.7 ~ -49(↓)	25.7 ~ -49(↓)	25.7 ~ -49(↓)
Power Class	3(max+24dBm)	3(max+24dBm)	3(max+24dBm)	3(max+24dBm)	3(max+24dBm)
Sensitivity	-106dBm	-104dBm	-106dBm	-104dBm	-103dBm

---

## 2. Specification

---

### 2-4-1. LTE General Specification [SM-J410F]

Item	LTE Band1	LTE Band3	LTE Band5	LTE Band7	LTE Band8
Freq. Band[MHz] Uplink/Downlink	1920~1980 2110~2170	1710~1785 1805~1880	824~849 869~894	2500~2570 2620~2690	880~915 925~960
ARFCN range	UL:18000~18599 DL:0~599	UL:19200~19949 DL:1200~1949	UL:20400~20649 DL:2400~2649	UL:20750~21449 DL:2750~3449	UL:21450~21799 DL:3450~3799
Tx/Rx spacing (MHz)	190	95	45	120	45
Channel Bandwidth (MHz)	5/10/15/20	1.4/3/5/10/15/20	1.4/3/5/10	5/10/15/20	1.4/3/5/10
Modulation	QPSK,16/64QAM 256QAM(DL only)	QPSK,16/64QAM 256QAM(DL only)	QPSK,16/64QAM 256QAM(DL only)	QPSK,16/64QAM 256QAM(DL only)	QPSK,16/64QAM 256QAM(DL only)
MS Power (dBm)	25.7~-39(↓)	25.7~-39(↓)	25.7~-39(↓)	25.7~-39(↓)	25.7~-39(↓)
Sensitivity(QPSK, BW 10MHz) (dBm)	-96.3	-93.3	-94.3	-94.3	-93.3

Item	LTE Band20	LTE Band38	LTE Band40	LTE Band41
Freq. Band[MHz] Uplink/Downlink	832~862 791~821	2570~2620	2300~2400	2496~2690
ARFCN range	UL:24150~24449 DL:6150~6449	UL/DL:37750 ~ 38249	UL/DL:38650 ~ 39649	UL/DL:39650 ~ 41589
Tx/Rx spacing (MHz)	-41	0	0	0
Channel Bandwidth (MHz)	5/10/15/20	5/10/15/20	5/10/15/20	5/10/15/20
Modulation	QPSK,16/64QAM 256QAM(DL only)	QPSK,16/64QAM 256QAM(DL only)	QPSK,16/64QAM 256QAM(DL only)	QPSK,16/64QAM 256QAM(DL only)
MS Power (dBm)	25.7~-39(↓)	25.7~-39(↓)	25.7~-39(↓)	25.7~-39(↓)
Sensitivity(QPSK, BW 10MHz) (dBm)	-93.3	-96.3	-96.3	-94.3

---

## 2. Specification

---

### 2-4-2. LTE General Specification [SM-J410G]

Item	LTE Band1	LTE Band2	LTE Band3	LTE Band4	LTE Band5	LTE Band7
Freq. Band[MHz]	1920~1980	1850~1910	1710~1785	1710~1755	824~849	2500~2570
Uplink/Downlink	2110~2170	1930~1990	1805~1880	2110~2155	869~894	2620~2690
ARFCN range	UL:18000~18599 DL:0~599	UL:18600~19199 DL:600~1199	UL:19200~19949 DL:1200~1949	UL:19950~20399 DL:1950~2399	UL:20400~20649 DL:2400~2649	UL:20750~21449 DL:2750~3449
Tx/Rx spacing (MHz)	190	80	95	400	45	120
Channel Bandwidth (MHz)	5/10/15/20	1.4/3/5/10/15/20	1.4/3/5/10/15/20	1.4/3/5/10/15/20	1.4/3/5/10	5/10/15/20
Modulation	QPSK,16/64QAM 256QAM(DL only)	QPSK,16/64QAM 256QAM(DL only)	QPSK,16/64QAM 256QAM(DL only)	QPSK,16/64QAM 256QAM(DL only)	QPSK,16/64QAM 256QAM(DL only)	QPSK,16/64QAM 256QAM(DL only)
MS Power (dBm)	25.7~-39(↓)	25.7~-39(↓)	25.7~-39(↓)	25.7~-39(↓)	25.7~-39(↓)	25.7~-39(↓)
Sensitivity (QPSK, BW 10MHz) (dBm)	-96.3	-94.3	-93.3	-96.3	-94.3	-94.3

Item	LTE Band8	LTE Band12	LTE Band13	LTE Band17	LTE Band20	LTE Band28
Freq. Band[MHz]	880~915	699~716	777~787	704~716	832~862	703~748
Uplink/Downlink	925~960	729~746	746~756	734~746	791~821	758~803
ARFCN range	UL:21450~21799 DL:3450~3799	UL:23010~23179 DL:5010~5179	UL:23180~23279 DL:5180~5279	UL:23730~23849 DL:5730~5849	UL:24150~24449 DL:6150~6449	UL:27210~27659 DL:9210~9659
Tx/Rx spacing (MHz)	45	30	-31	30	-41	55
Channel Bandwidth (MHz)	1.4/3/5/10	1.4/3/5/10	1.4/3/5/10	5/10	5/10/15/20	3/5/10/15/20
Modulation	QPSK,16/64QAM 256QAM(DL only)	QPSK,16/64QAM 256QAM(DL only)	QPSK,16/64QAM 256QAM(DL only)	QPSK,16/64QAM 256QAM(DL only)	QPSK,16/64QAM 256QAM(DL only)	QPSK,16/64QAM 256QAM(DL only)
MS Power (dBm)	25.7~-39(↓)	25.7~-39(↓)	25.7~-39(↓)	25.7~-39(↓)	25.7~-39(↓)	25.7~-39(↓)
Sensitivity(QPSK, BW 10MHz)(dBm)	-93.3	-93.3	-93.3	-93.3	-93.3	-94.8

---

## 2. Specification

---

Item	LTE Band38	LTE Band40	LTE Band41	LTE Band66
Freq. Band[MHz] Uplink/Downlink	2570~2620	2300~2400	2496~2690	1710~1780 2110~2200
ARFCN range	UL/DL:37750 ~ 38249	UL/DL:38650 ~ 39649	UL/DL:39650 ~ 41589	UL:131972~132671 DL:66436~67335
Tx/Rx spacing (MHz)	0	0	0	400
Channel Bandwidth (MHz)	5/10/15/20	5/10/15/20	5/10/15/20	1.4/3/5/10/15/20
Modulation	QPSK,16/64QAM 256QAM(DL only)	QPSK,16/64QAM 256QAM(DL only)	QPSK,16/64QAM 256QAM(DL only)	QPSK,16/64QAM 256QAM(DL only)
MS Power (dBm)	25.7~-39(↓)	25.7~-39(↓)	25.7~-39(↓)	25.7~-39(↓)
Sensitivity (QPSK, BW 10MHz) (dBm)	-96.3	-96.3	-94.3	-95.8

---

## 3. Product Function

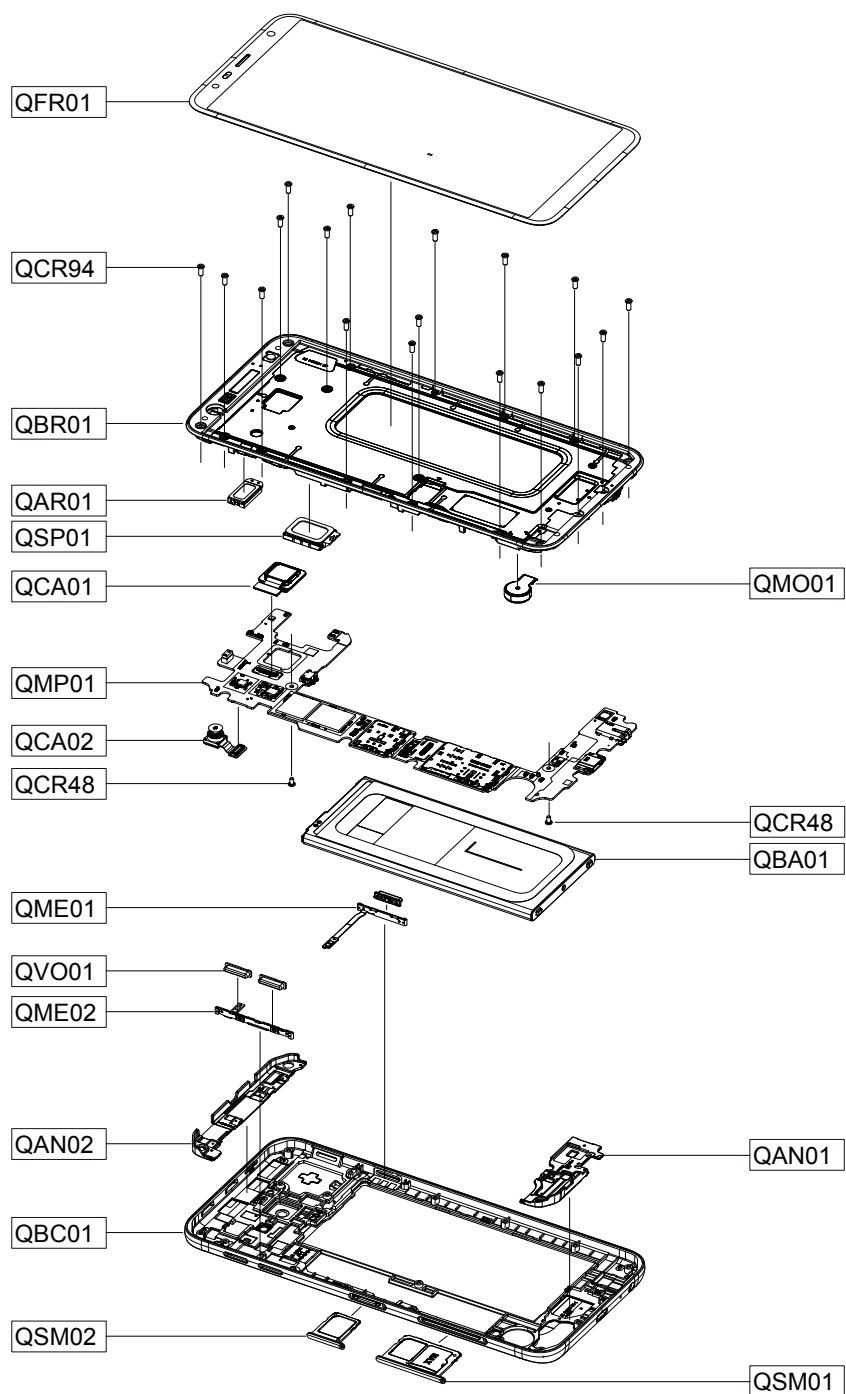
---

### Main Function

Item	Description
OS	Android Go O OS V8.1.0
<b>SM-J410F</b> RF	GSM850 / GSM900 / DCS1800 / PCS1900 WCDMA: B1/ B2/ B5/ B8 LTE: (FDD) B1/ B3/ B5/ B7/ B8/ B20 (TDD) B38/ B40/ B41
<b>SM-J410G</b> RF	GSM850 / GSM900 / DCS1800 / PCS1900 WCDMA: B1/ B2/ B4/ B5/ B8 LTE: (FDD) B1/ B2/ B3/ B4/ B5/ B7/ B8/ B12/ B13/ B17/ B20/ B28 / B66 (TDD) B38/ B40/ B41
Battery	3300mAh
Base Band	1.4GHz Quad-Core
Other RF	GPS, Glonass, BEIDOU, BT4.2, USB 2.0, WIFI 802.11 b/g/n, FM Radio
Camera	Rear : 8.0MP, Front : 5.0MP
LCD	6,0" TFT In-Cell Touch LCD, 1480 x 720 (HD+)
RAM	1GB
Storage	16GB
Sensor	Accelerometer, Proximity Sensor, RGB sensor
Accessory	Charger: 5V/1A Data cable: 3.0pi, 0.8m(USB-A) Ear phone: 3.5pi, 4pin

## 4. Exploded View and Parts List

### 4-1. Cellular phone Exploded View [SM-J410F/G]



※ SVC REPAIR TAPE  
QRT01, QRT02, QRT03



## 5. MAIN Electrical Parts List

### [SM-J410F]

Parts Code	Design LOC	Description
0202-002125	R3003,R3004,R3009	DIODE-SWICHGING
0202-002125	R3010,R3042,R4004	DIODE-SCHOTTKY
0202-002125	R4030,R5003,R6016	DIODE-SCHOTTKY
0202-002125	U6020,U6026	DIODE-SCHOTTKY
0401-001110	ZD6016	DIODE-TVS
0404-001250	D4000	DIODE-TVS
0404-001646	D6000	DIODE-TVS
0406-001561	ZD4008,ZD5000,ZD5003	DIODE-TVS
0406-001592	ZD4009	DIODE-TVS
0406-001682	ZD5013	DIODE-TVS
0406-001709	ZD5006	DIODE-TVS
0406-001728	ZD4007	DIODE-TVS
0406-001743	ZD4001,ZD4002	DIODE-TVS
0406-001776	ZD4003,ZD4004,ZD4005	DIODE-TVS
0406-001776	ZD4006	DIODE-TVS
0406-001781	ZD5007,ZD5010	DIODE-TVS
0406-001789	ZD4012,ZD4014	DIODE-TVS
0406-001797	ZD4010,ZD4011	DIODE-TVS
0406-001807	ZD4000	DIODE-TVS
0406-001808	ZD4013	DIODE-TVS
0505-002088	Q4000,Q6000	FET-SILICON
0505-003618	U4005	FET-SILICON
0601-003734	LED4001	LED
0601-003735	LED4000	LED
1001-001655	U4006	IC
1001-001968	U5000	IC
1001-001969	U2000	IC
1001-001970	U1004,U1007	IC
1001-002022	U2003	IC
1001-002046	U1002	IC
1108-000658	UME5000	MEMORY
1201-003786	U2006	IC
1201-003984	U1006	IC
1201-003985	U1100	IC
1201-004109	PAM1001	IC
1201-004209	PAM1000	IC
1203-008251	U6019	IC

---

## 5. MAIN Electrical Parts List

---

1203-008379	U2002	IC
1203-008468	U4007	IC
1203-008575	U6009	IC
1203-008816	PM4000	Power Management IC
1203-008859	U6013	IC
1203-008865	U6001	IC
1203-008867	U6006,U6007,U6024	IC
1203-008870	U6005	IC
1203-008995	U4004	IC
1205-005493	U1016	IC
1205-005525	U2008	IC
1205-006027	UCP3000	Main Processor IC
1209-002414	U6017	IC
1209-002552	U6016	IC
1404-001664	TH1000,TH3000,TH3001	THERMISTOR
1405-001404	VR6001	VARISTOR
2007-003015	R4025,R4026	R-CHIP
2007-003025	R5024,R5085	R-CHIP
2007-007142	R6005,R6011,R6012	R-CHIP
2007-007142	R6014	R-CHIP
2007-007315	R3000	R-CHIP
2007-007741	R3034,R3036,R3039	R-CHIP
2007-007741	R3041,R4019,R5002	R-CHIP
2007-007741	R5023,R6002,U6003	R-CHIP
2007-007798	R4027	R-CHIP
2007-008210	R1000,R6015	R-CHIP
2007-008304	R5011	R-CHIP
2007-008419	R4007,R4014	R-CHIP
2007-008531	R5008,R6000,R6001	R-CHIP
2007-008579	R1013	R-CHIP
2007-008582	R1002,R1003	R-CHIP
2007-008788	R3027	R-CHIP
2007-008798	R4028,R4029	R-CHIP
2007-009111	R6006	R-CHIP
2007-009155	R5009	R-CHIP
2007-009157	R1009,R2009,R3029	R-CHIP
2007-009157	R3030,R4000,R4005	R-CHIP
2007-009157	R4016,R5016,R5026	R-CHIP
2007-009157	R5086	R-CHIP

---

## 5. MAIN Electrical Parts List

---

2007-009158	R4006	R-CHIP
2007-009171	R4018	R-CHIP
2007-009212	R3032,R5006	R-CHIP
2007-009223	R5017	R-CHIP
2007-009314	R4022,R4023,R4024	R-CHIP
2007-009315	R4111,R4112,R4114	R-CHIP
2007-009315	R4115,R4116,R4117	R-CHIP
2007-009315	R4118,R4120,R4121	R-CHIP
2007-009315	R4122,R4123,R4125	R-CHIP
2007-009315	R4126,R4127	R-CHIP
2007-009408	R3007,R3008,R3015	R-CHIP
2007-009408	R3016,R3017,R3018	R-CHIP
2007-009408	R3019,R3020,R3023	R-CHIP
2007-009408	R3024,R3025,R3026	R-CHIP
2007-009408	R6018	R-CHIP
2007-009793	R5019	R-CHIP
2007-009801	R4015,R5005,R5007	R-CHIP
2007-009801	R5018	R-CHIP
2007-009805	R1001,R1006,R1010	R-CHIP
2007-009805	R1024	R-CHIP
2007-009866	R5020	R-CHIP
2007-009920	R3002,R5012,R5013	R-CHIP
2007-009924	R5022	R-CHIP
2007-009969	R5010	R-CHIP
2007-010202	R5021	R-CHIP
2007-010685	R3001	R-CHIP
2007-011043	R3028	R-CHIP
2007-012068	R4021	R-CHIP
2203-000425	C6034	C-CERAMIC,CHIP
2203-001239	C6035	C-CERAMIC,CHIP
2203-002677	C2090	C-CERAMIC,CHIP
2203-005682	C1004,C1041,C1056	C-CERAMIC,CHIP
2203-005682	C1057,C1132,C1164	C-CERAMIC,CHIP
2203-005682	C1201,C1202,C2021	C-CERAMIC,CHIP
2203-005682	C2022,C2023,C2039	C-CERAMIC,CHIP
2203-005682	C2040,C5033,C6065	C-CERAMIC,CHIP
2203-005682	C6068,C6071,L2047	C-CERAMIC,CHIP
2203-005725	C1151,C1153,C1154	C-CERAMIC,CHIP
2203-005725	C1157,C1169	C-CERAMIC,CHIP

## 5. MAIN Electrical Parts List

2203-005729	C1131,C5004,C5023	C-CERAMIC,CHIP
2203-005729	C5032,C5036,C5040	C-CERAMIC,CHIP
2203-005729	C6001,C6005	C-CERAMIC,CHIP
2203-005731	C6008	C-CERAMIC,CHIP
2203-005732	C5030,C5034,C5035	C-CERAMIC,CHIP
2203-005732	C5041	C-CERAMIC,CHIP
2203-005734	C1001,C1105,C2083	C-CERAMIC,CHIP
2203-005736	C1003,C1011,C1015	C-CERAMIC,CHIP
2203-005736	C1027,C1031,C1046	C-CERAMIC,CHIP
2203-005736	C1047,C1052,C1060	C-CERAMIC,CHIP
2203-005736	C1070,C1090,C1100	C-CERAMIC,CHIP
2203-005736	C1102,C1111,C1120	C-CERAMIC,CHIP
2203-005736	C1124,C1133,C1134	C-CERAMIC,CHIP
2203-005736	C1138,C1142,C1152	C-CERAMIC,CHIP
2203-005736	C1158,C1165,C1166	C-CERAMIC,CHIP
2203-005736	C1167,C1172,C1173	C-CERAMIC,CHIP
2203-005736	C1178,C1184,C1185	C-CERAMIC,CHIP
2203-005736	C1186,C1187,C2002	C-CERAMIC,CHIP
2203-005736	C2004,C2005,C2011	C-CERAMIC,CHIP
2203-005736	C2013,C2020,C2028	C-CERAMIC,CHIP
2203-005736	C2030,C2032,C2034	C-CERAMIC,CHIP
2203-005736	C2038,C2044,C2045	C-CERAMIC,CHIP
2203-005736	C2088,C2102,C2105	C-CERAMIC,CHIP
2203-005736	C6047,L1011,L1014	C-CERAMIC,CHIP
2203-005736	L1026,L1040,L1057	C-CERAMIC,CHIP
2203-005736	L1061,L1082,L1088	C-CERAMIC,CHIP
2203-005736	L1100,L2011,L2018	C-CERAMIC,CHIP
2203-005736	L2024,R1015,R1025	C-CERAMIC,CHIP
2203-005777	C1022,C1024,C1075	C-CERAMIC,CHIP
2203-005777	C1125,C1129,C2087	C-CERAMIC,CHIP
2203-005777	L1062,L2034,L2042	C-CERAMIC,CHIP
2203-005789	C1023,C1068,C2001	C-CERAMIC,CHIP
2203-005789	C2006,C2007,C2010	C-CERAMIC,CHIP
2203-005789	C2093,L1070,L2026	C-CERAMIC,CHIP
2203-005792	L1036,L2035	C-CERAMIC,CHIP
2203-005806	C1163,C2018,C2026	C-CERAMIC,CHIP
2203-005806	C2054,C3073,C3074	C-CERAMIC,CHIP
2203-005806	C4000	C-CERAMIC,CHIP
2203-006121	C5026	C-CERAMIC,CHIP

## 5. MAIN Electrical Parts List

2203-006187	C2085	C-CERAMIC,CHIP
2203-006194	C2100,C2101,C2106	C-CERAMIC,CHIP
2203-006194	C4093,C4095	C-CERAMIC,CHIP
2203-006305	C2016,C2019,C2046	C-CERAMIC,CHIP
2203-006305	L2021,L2031	C-CERAMIC,CHIP
2203-006318	C1050,C1065,C1122	C-CERAMIC,CHIP
2203-006318	C2089,L1029,L2022	C-CERAMIC,CHIP
2203-006400	C1107,C1130,C1200	C-CERAMIC,CHIP
2203-006410	C2092	C-CERAMIC,CHIP
2203-006423	C1025,C1045,C1139	C-CERAMIC,CHIP
2203-006423	C1145,C1146,C1147	C-CERAMIC,CHIP
2203-006423	C3000,C3001,C3002	C-CERAMIC,CHIP
2203-006423	C3010,C3011,C3012	C-CERAMIC,CHIP
2203-006423	C3016,C3017,C3018	C-CERAMIC,CHIP
2203-006423	C3019,C3020,C3021	C-CERAMIC,CHIP
2203-006423	C3022,C3029,C3030	C-CERAMIC,CHIP
2203-006423	C3031,C3032,C3033	C-CERAMIC,CHIP
2203-006423	C3034,C3035,C3036	C-CERAMIC,CHIP
2203-006423	C3037,C3038,C3039	C-CERAMIC,CHIP
2203-006423	C3040,C3041,C3042	C-CERAMIC,CHIP
2203-006423	C3043,C3044,C3045	C-CERAMIC,CHIP
2203-006423	C3046,C3047,C3048	C-CERAMIC,CHIP
2203-006423	C3052,C3054,C3055	C-CERAMIC,CHIP
2203-006423	C3056,C3057,C3058	C-CERAMIC,CHIP
2203-006423	C3068,C3069,C3070	C-CERAMIC,CHIP
2203-006423	C3076,C3077,C3078	C-CERAMIC,CHIP
2203-006423	C3080,C3081,C3082	C-CERAMIC,CHIP
2203-006423	C3083,C3084,C3085	C-CERAMIC,CHIP
2203-006423	C3086,C4005,C4016	C-CERAMIC,CHIP
2203-006423	C4022,C4024,C4056	C-CERAMIC,CHIP
2203-006423	C5010,C5013,C5019	C-CERAMIC,CHIP
2203-006423	C5022,C5025,C6002	C-CERAMIC,CHIP
2203-006423	C6058,C6066	C-CERAMIC,CHIP
2203-006556	C5027	C-CERAMIC,CHIP
2203-006604	C4082,C4083,C4084	C-CERAMIC,CHIP
2203-006604	C4085	C-CERAMIC,CHIP
2203-006648	C2110	C-CERAMIC,CHIP
2203-006674	C1064	C-CERAMIC,CHIP
2203-006707	C2061	C-CERAMIC,CHIP

---

## 5. MAIN Electrical Parts List

---

2203-006839	C3071,C3072,C4029	C-CERAMIC,CHIP
2203-006839	C4075,C6032	C-CERAMIC,CHIP
2203-006846	C1035	C-CERAMIC,CHIP
2203-006896	C1159,C5020,C5021	C-CERAMIC,CHIP
2203-006968	L1002,L2049	C-CERAMIC,CHIP
2203-006979	C1136,C1148,U1012	C-CERAMIC,CHIP
2203-007194	C2117,L1024,L1044	C-CERAMIC,CHIP
2203-007210	C3064,C4077,C5005	C-CERAMIC,CHIP
2203-007210	C5008,C5009,C5015	C-CERAMIC,CHIP
2203-007210	C5017	C-CERAMIC,CHIP
2203-007271	C4060,C4076	C-CERAMIC,CHIP
2203-007295	C2091	C-CERAMIC,CHIP
2203-007317	C4080,C6007,C6009	C-CERAMIC,CHIP
2203-007391	C1144,C2099,C4094	C-CERAMIC,CHIP
2203-007391	C4096,C5011	C-CERAMIC,CHIP
2203-007775	C2008,C2015,C2107	C-CERAMIC,CHIP
2203-007775	C3004,C3023,C3062	C-CERAMIC,CHIP
2203-007775	C3092,C4008,C4010	C-CERAMIC,CHIP
2203-007775	C4012,C4020,C4025	C-CERAMIC,CHIP
2203-007775	C4026,C4027,C4028	C-CERAMIC,CHIP
2203-007775	C4045,C5016,C5018	C-CERAMIC,CHIP
2203-007781	C3094,C3097,C3098	C-CERAMIC,CHIP
2203-007781	C3099,C3100,C3101	C-CERAMIC,CHIP
2203-007781	C3102,C3103,C4030	C-CERAMIC,CHIP
2203-007781	C4031,C4053,C4054	C-CERAMIC,CHIP
2203-007781	C4055,C4057,C4098	C-CERAMIC,CHIP
2203-007796	C2103,C3005,C3024	C-CERAMIC,CHIP
2203-007796	C3025,C3026,C3050	C-CERAMIC,CHIP
2203-007796	C3051,C3053,C3060	C-CERAMIC,CHIP
2203-007796	C3061,C3065,C3090	C-CERAMIC,CHIP
2203-007796	C3091,C4004,C4006	C-CERAMIC,CHIP
2203-007796	C4007,C4009,C4011	C-CERAMIC,CHIP
2203-007796	C4013,C4014,C4019	C-CERAMIC,CHIP
2203-007796	C4023,C4050,C4062	C-CERAMIC,CHIP
2203-007796	C5001,C5002,C5003	C-CERAMIC,CHIP
2203-007796	C5006,C5007,C5014	C-CERAMIC,CHIP
2203-007796	C6004,C6006,C6011	C-CERAMIC,CHIP
2203-007796	C6012,C6018,C6020	C-CERAMIC,CHIP
2203-007796	C6030,C6041,C6051	C-CERAMIC,CHIP

## 5. MAIN Electrical Parts List

2203-007796	C6057,C6059,C6060	C-CERAMIC,CHIP
2203-007796	C6073	C-CERAMIC,CHIP
2203-008094	C4073	C-CERAMIC,CHIP
2203-008097	C1033	C-CERAMIC,CHIP
2203-008242	C3049	C-CERAMIC,CHIP
2203-008572	C4035,C4038	C-CERAMIC,CHIP
2203-008654	C4091	C-CERAMIC,CHIP
2203-008749	C6036	C-CERAMIC,CHIP
2203-008860	C1141,C1149,C3066	C-CERAMIC,CHIP
2203-008860	C4033,C4037,C4049	C-CERAMIC,CHIP
2203-008860	C4051,C4064,C4069	C-CERAMIC,CHIP
2203-008860	C4071,C4079,C6016	C-CERAMIC,CHIP
2203-008860	C6019,C6021,C6027	C-CERAMIC,CHIP
2203-008860	C6040,C6070,C6072	C-CERAMIC,CHIP
2203-008876	C1026,C1032,C1135	C-CERAMIC,CHIP
2203-008876	C1140,C4002,C4003	C-CERAMIC,CHIP
2203-008876	C4034,C4036,C4039	C-CERAMIC,CHIP
2203-008876	C4040,C4043,C4044	C-CERAMIC,CHIP
2203-008876	C4046,C4047,C5000	C-CERAMIC,CHIP
2203-008876	C6031,C6067,C6077	C-CERAMIC,CHIP
2203-009733	C1034,C2012,C2073	C-CERAMIC,CHIP
2203-009733	C2074,C2104,C4048	C-CERAMIC,CHIP
2203-009733	C4059,C4089,C6010	C-CERAMIC,CHIP
2203-009733	C6014,C6033,C6037	C-CERAMIC,CHIP
2203-009733	C6039,C6046,C6048	C-CERAMIC,CHIP
2203-010085	C3063,C4058,C4063	C-CERAMIC,CHIP
2703-002268	L2052	INDUCTOR-SMD
2703-002308	L5015	INDUCTOR-SMD
2703-002649	C1069	INDUCTOR-SMD
2703-002901	C1150	INDUCTOR-SMD
2703-002903	C1036,L1023,L1083	INDUCTOR-SMD
2703-002951	L1041,L4009,L4011	INDUCTOR-SMD
2703-002953	L1034	INDUCTOR-SMD
2703-002955	C1021,L1084,L1085	INDUCTOR-SMD
2703-002955	L1086,L1087,L2009	INDUCTOR-SMD
2703-002955	L4010,L4012	INDUCTOR-SMD
2703-002958	L1003	INDUCTOR-SMD
2703-002959	L2005,L2008,L2012	INDUCTOR-SMD
2703-002959	L2048,L2057	INDUCTOR-SMD

---

## 5. MAIN Electrical Parts List

---

2703-002999	C1104	INDUCTOR-SMD
2703-003004	C1089,L1090	INDUCTOR-SMD
2703-003878	L5008	INDUCTOR-SMD
2703-003970	L1009	INDUCTOR-SMD
2703-004012	C1055,C2056,C2057	INDUCTOR-SMD
2703-004012	L1018,L1027,L2000	INDUCTOR-SMD
2703-004013	C1028,C1044,C1143	INDUCTOR-SMD
2703-004013	C2029,L1031,L1068	INDUCTOR-SMD
2703-004013	L1073,L2062	INDUCTOR-SMD
2703-004014	L1055,L2039,L2054	INDUCTOR-SMD
2703-004018	C1113,L1056	INDUCTOR-SMD
2703-004034	C1005,C1121,C2003	INDUCTOR-SMD
2703-004034	L1004,L1010,L1054	INDUCTOR-SMD
2703-004034	L2037	INDUCTOR-SMD
2703-004036	C2059	INDUCTOR-SMD
2703-004193	L5017,L5018	INDUCTOR-SMD
2703-004259	L1033	INDUCTOR-SMD
2703-004286	C1018,C2024,C2031	INDUCTOR-SMD
2703-004286	C2058,L1025,L1079	INDUCTOR-SMD
2703-004286	L1089,L2029,L2032	INDUCTOR-SMD
2703-004286	L2038	INDUCTOR-SMD
2703-004288	C1103,L1028,L2002	INDUCTOR-SMD
2703-004288	L2044	INDUCTOR-SMD
2703-004289	C1118,C2047,L1072	INDUCTOR-SMD
2703-004300	C1086,L1007,L1078	INDUCTOR-SMD
2703-004300	L2001	INDUCTOR-SMD
2703-004301	L1064	INDUCTOR-SMD
2703-004317	C1019,C1038,C1101	INDUCTOR-SMD
2703-004317	L1000,L1008,L1021	INDUCTOR-SMD
2703-004317	L1058	INDUCTOR-SMD
2703-004328	C1051,L1059,L2007	INDUCTOR-SMD
2703-004328	L2019,L2061	INDUCTOR-SMD
2703-004362	L2059	INDUCTOR-SMD
2703-004363	C2052	INDUCTOR-SMD
2703-004366	L2043	INDUCTOR-SMD
2703-004367	L2046	INDUCTOR-SMD
2703-004368	C1116	INDUCTOR-SMD
2703-004684	L3000	INDUCTOR-SMD
2703-004763	C1048	INDUCTOR-SMD



---

## 5. MAIN Electrical Parts List

---

2703-004862	L1060,L2045	INDUCTOR-SMD
2703-004947	L4003,L4005	INDUCTOR-SMD
2703-004976	C2120	INDUCTOR-SMD
2703-005058	L1022	INDUCTOR-SMD
2703-005067	L4007,L4008	INDUCTOR-SMD
2703-005085	C1017,C2055	INDUCTOR-SMD
2703-005087	C1171,C2037,C2041	INDUCTOR-SMD
2703-005088	C2033	INDUCTOR-SMD
2703-005089	C1007	INDUCTOR-SMD
2703-005101	L2015	INDUCTOR-SMD
2703-005109	L4002	INDUCTOR-SMD
2703-005116	L6005	INDUCTOR-SMD
2703-005118	L6003	INDUCTOR-SMD
2703-005224	L4006	INDUCTOR-SMD
2703-005339	L4013,L4014	INDUCTOR-SMD
2801-005300	OSC4000	CRYSTAL-UNIT
2904-002137	F1100	FILTER-SAW
2904-002143	F1001	FILTER-SAW
2904-002198	F2004	FILTER-SAW
2904-002339	F2000	FILTER-SAW
2904-002350	F1005	FILTER-SAW
2904-002355	F2002	FILTER-SAW
2904-002381	F2006	FILTER-SAW
2904-002394	F2003	FILTER-SAW
2904-002397	F1004	FILTER-SAW
2910-000401	F1006	FILTER
2911-000435	U2005	FILTER
2911-000450	U1003	FILTER
3003-001215	MIC5000	MIC-CONDENSOR
3301-001812	L6004	CORE-FERRITE BEAD
3301-001885	L5016	CORE-FERRITE BEAD
3301-001901	L6002	CORE-FERRITE BEAD
3301-002078	L5013,L5014	CORE-FERRITE BEAD
3301-002122	L5019,L5020	CORE-FERRITE BEAD
3301-002223	L6000,L6010	CORE-FERRITE BEAD
3301-002236	L2016,L2023,L5005	CORE-FERRITE BEAD
3301-002236	L5007,L5009,L5011	CORE-FERRITE BEAD
3301-002236	L5012	CORE-FERRITE BEAD
3301-002237	L1001,L1017,L1077	CORE-FERRITE BEAD

## 5. MAIN Electrical Parts List

3301-002237	L6006,L6007	CORE-FERRITE BEAD
3301-002238	L2006	CORE-FERRITE BEAD
3301-002248	L2053	CORE-FERRITE BEAD
3301-002254	L4000	CORE-FERRITE BEAD
3301-002286	L5010	CORE-FERRITE BEAD
3301-002309	L2041,L5004	CORE-FERRITE BEAD
3301-002312	L4004	CORE-FERRITE BEAD
3705-001708	RFS1000	CONNECTOR-COAXIAL
3709-001880	CD4000	CONNECTOR-CARD
3709-001891	CD4001	CONNECTOR-CARD
3711-007295	HDC6001	CONNECTOR-HEADER
3711-008511	HDC6000	CONNECTOR-HEADER
3711-009045	HDC4000	CONNECTOR-HEADER
3711-009357	U6002	CONNECTOR-HEADER
3712-001604	ANT6010,ANT6013	CONNECTOR
3712-001621	ANT6009,ANT6011	CONNECTOR
3712-001621	ANT6012,ANT6014	CONNECTOR
3712-001621	ANT6021	CONNECTOR
3712-001626	ANT5000,ANT5003	CONNECTOR
3712-001666	ANT1001,ANT1002	CONNECTOR
3712-001666	ANT2000,ANT2001	CONNECTOR
3712-001666	ANT2003,ANT2004	CONNECTOR
3712-001666	ANT5001,ANT5002	CONNECTOR
3712-001694	ANT4000,ANT4001	CONNECTOR
3712-001694	ANT4002,ANT4004	CONNECTOR
3712-001694	ANT4005,ANT4006	CONNECTOR
3712-001694	ANT4007,ANT4008	CONNECTOR
3722-003954	IFC4000	JACK-PHONE
3722-004146	CN6000	JACK-PHONE
4709-002412	CPL1000	RF-MODULE
GH61-13156A	SUS1001	SHIELD CAN
GH62-00042A	SMR6000	SHIELD CAN
GH63-09457A	SC2000	SHIELD CAN
GH63-13772A	SC2004	SHIELD CAN
GH63-15420A	SC2003	SHIELD CAN
GH63-15421A	SC2002	SHIELD CAN
GH63-16233A	SC2006	SHIELD CAN
GH63-16234A	SC2007	SHIELD CAN
GH63-16235A	SC2005	SHIELD CAN

---

## 5. MAIN Electrical Parts List

---

GH02-16421A	SC2006SP	TAPE
-------------	----------	------

## 5. MAIN Electrical Parts List

### [SM-J410G]

Parts Code	Design LOC	Description
0202-002125	R3003,R3004,R3009	DIODE-SWICHGING
0202-002125	R3010,R3042,R4004	DIODE-SCHOTTKY
0202-002125	R4030,R5003,R6016	DIODE-SCHOTTKY
0202-002125	U6023,U6026	DIODE-SCHOTTKY
0401-001110	ZD6016	DIODE-TVS
0404-001250	D4000	DIODE-TVS
0404-001646	D6000	DIODE-TVS
0406-001561	ZD4008,ZD5000,ZD5003	DIODE-TVS
0406-001592	ZD4009	DIODE-TVS
0406-001682	ZD5013	DIODE-TVS
0406-001709	ZD5006	DIODE-TVS
0406-001728	ZD4007	DIODE-TVS
0406-001743	ZD4001,ZD4002	DIODE-TVS
0406-001776	ZD4003,ZD4004,ZD4005	DIODE-TVS
0406-001776	ZD4006	DIODE-TVS
0406-001781	ZD5007,ZD5010	DIODE-TVS
0406-001789	ZD4012,ZD4014	DIODE-TVS
0406-001797	ZD4010,ZD4011	DIODE-TVS
0406-001807	ZD4000	DIODE-TVS
0406-001808	ZD4013	DIODE-TVS
0505-002088	Q4000,Q6000	FET-SILICON
0505-003618	U4005	FET-SILICON
0601-003734	LED4001	LED
0601-003735	LED4000	LED
1001-001655	U4006	IC
1001-001844	U1008	IC
1001-001968	U5000	IC
1001-001969	U2000	IC
1001-001970	U1004,U1007,U1010	IC
1001-001970	U1013	IC
1001-001999	U1011	IC
1001-002022	U2003	IC
1001-002046	U1002	IC
1108-000658	UME5000	MEMORY
1201-003786	U2006	IC
1201-003984	U1006	IC
1201-003985	U1100	IC

## 5. MAIN Electrical Parts List

1201-004109	PAM1001	IC
1201-004209	PAM1000	IC
1203-008251	U6019	IC
1203-008379	U2002	IC
1203-008468	U4007	IC
1203-008575	U6009	IC
1203-008816	PM4000	Power Management IC
1203-008859	U6013	IC
1203-008865	U6001	IC
1203-008867	U6006,U6007,U6024	IC
1203-008870	U6005	IC
1203-008995	U4004	IC
1205-005493	U1016	IC
1205-005525	U2008	IC
1205-006027	UCP3000	Main Processor IC
1209-002414	U6017	IC
1209-002552	U6016	IC
1404-001664	TH1000,TH3000,TH3001	THERMISTOR
1405-001404	VR6001	VARISTOR
2007-003015	R4025,R4026	R-CHIP
2007-003025	R5024,R5085	R-CHIP
2007-007142	R6005,R6011,R6012	R-CHIP
2007-007142	R6014	R-CHIP
2007-007315	R3000	R-CHIP
2007-007741	R3034,R3036,R3039	R-CHIP
2007-007741	R3041,R4019,R5002	R-CHIP
2007-007741	R5023,R6002,U6003	R-CHIP
2007-007798	R4027	R-CHIP
2007-008210	R1000,R6015	R-CHIP
2007-008304	R5011	R-CHIP
2007-008419	R4007,R4014	R-CHIP
2007-008531	R5008,R6000,R6001	R-CHIP
2007-008579	R1013	R-CHIP
2007-008582	R1002,R1003	R-CHIP
2007-008788	R3027	R-CHIP
2007-008798	R4028,R4029	R-CHIP
2007-009111	R6006	R-CHIP
2007-009155	R5009	R-CHIP
2007-009157	R1009,R2009,R3029	R-CHIP

## 5. MAIN Electrical Parts List

2007-009157	R3030,R4000,R4005	R-CHIP
2007-009157	R4016,R5016,R5026	R-CHIP
2007-009157	R5086	R-CHIP
2007-009158	R4006	R-CHIP
2007-009171	R4018	R-CHIP
2007-009212	R3032,R5006	R-CHIP
2007-009223	R5017	R-CHIP
2007-009314	R4022,R4023,R4024	R-CHIP
2007-009315	R4111,R4112,R4114	R-CHIP
2007-009315	R4115,R4116,R4117	R-CHIP
2007-009315	R4118,R4120,R4121	R-CHIP
2007-009315	R4122,R4123,R4125	R-CHIP
2007-009315	R4126,R4127	R-CHIP
2007-009408	R3007,R3008,R3015	R-CHIP
2007-009408	R3016,R3017,R3018	R-CHIP
2007-009408	R3019,R3020,R3023	R-CHIP
2007-009408	R3024,R3025,R3026	R-CHIP
2007-009408	R6018	R-CHIP
2007-009793	R5019	R-CHIP
2007-009801	R4015,R5005,R5007	R-CHIP
2007-009801	R5018	R-CHIP
2007-009805	R1001,R1006,R1010	R-CHIP
2007-009805	R1024	R-CHIP
2007-009866	R5020	R-CHIP
2007-009920	R3002,R5012,R5013	R-CHIP
2007-009924	R5022	R-CHIP
2007-009969	R5010	R-CHIP
2007-010202	R5021	R-CHIP
2007-010685	R3001	R-CHIP
2007-011043	R3028	R-CHIP
2007-012068	R4021	R-CHIP
2203-000425	C6034	C-CERAMIC,CHIP
2203-001239	C6035	C-CERAMIC,CHIP
2203-002677	C2090	C-CERAMIC,CHIP
2203-005682	C1004,C1041,C1056	C-CERAMIC,CHIP
2203-005682	C1057,C1110,C1132	C-CERAMIC,CHIP
2203-005682	C1164,C1201,C1202	C-CERAMIC,CHIP
2203-005682	C2021,C2022,C2023	C-CERAMIC,CHIP
2203-005682	C2039,C2040,C5033	C-CERAMIC,CHIP

## 5. MAIN Electrical Parts List

2203-005682	C6065,C6068,C6071	C-CERAMIC,CHIP
2203-005682	L2047	C-CERAMIC,CHIP
2203-005725	C1151,C1153,C1154	C-CERAMIC,CHIP
2203-005725	C1157,C1169	C-CERAMIC,CHIP
2203-005729	C1131,C5004,C5023	C-CERAMIC,CHIP
2203-005729	C5032,C5036,C5040	C-CERAMIC,CHIP
2203-005729	C6001,C6005	C-CERAMIC,CHIP
2203-005731	C6008	C-CERAMIC,CHIP
2203-005732	C5030,C5034,C5035	C-CERAMIC,CHIP
2203-005732	C5041	C-CERAMIC,CHIP
2203-005734	C1001,C1105,C2083	C-CERAMIC,CHIP
2203-005736	C1003,C1011,C1015	C-CERAMIC,CHIP
2203-005736	C1027,C1031,C1046	C-CERAMIC,CHIP
2203-005736	C1047,C1052,C1060	C-CERAMIC,CHIP
2203-005736	C1070,C1085,C1090	C-CERAMIC,CHIP
2203-005736	C1100,C1102,C1111	C-CERAMIC,CHIP
2203-005736	C1120,C1124,C1137	C-CERAMIC,CHIP
2203-005736	C1138,C1142,C1152	C-CERAMIC,CHIP
2203-005736	C1158,C1167,C1172	C-CERAMIC,CHIP
2203-005736	C1173,C1178,C1184	C-CERAMIC,CHIP
2203-005736	C1187,C2002,C2004	C-CERAMIC,CHIP
2203-005736	C2005,C2011,C2013	C-CERAMIC,CHIP
2203-005736	C2020,C2028,C2030	C-CERAMIC,CHIP
2203-005736	C2032,C2034,C2038	C-CERAMIC,CHIP
2203-005736	C2044,C2045,C2062	C-CERAMIC,CHIP
2203-005736	C2064,C2065,C2088	C-CERAMIC,CHIP
2203-005736	C2102,C2105,C6047	C-CERAMIC,CHIP
2203-005736	L1011,L1014,L1026	C-CERAMIC,CHIP
2203-005736	L1040,L1057,L1061	C-CERAMIC,CHIP
2203-005736	L1082,L1088,L1100	C-CERAMIC,CHIP
2203-005736	L2011,L2018,L2024	C-CERAMIC,CHIP
2203-005736	R1015,R1025	C-CERAMIC,CHIP
2203-005777	C1022,C1024,C1075	C-CERAMIC,CHIP
2203-005777	C1092,C1125,C1129	C-CERAMIC,CHIP
2203-005777	C2087,L1062,L2034	C-CERAMIC,CHIP
2203-005777	L2042	C-CERAMIC,CHIP
2203-005789	C1023,C1053,C1068	C-CERAMIC,CHIP
2203-005789	C1099,C2001,C2006	C-CERAMIC,CHIP
2203-005789	C2007,C2010,C2093	C-CERAMIC,CHIP

---

## 5. MAIN Electrical Parts List

---

2203-005789	L1070,L2026	C-CERAMIC,CHIP
2203-005792	C1084,L1036,L2035	C-CERAMIC,CHIP
2203-005806	C1163,C2018,C2026	C-CERAMIC,CHIP
2203-005806	C2054,C3073,C3074	C-CERAMIC,CHIP
2203-005806	C4000	C-CERAMIC,CHIP
2203-006121	C5026	C-CERAMIC,CHIP
2203-006187	C2085	C-CERAMIC,CHIP
2203-006194	C2100,C2101,C2106	C-CERAMIC,CHIP
2203-006194	C4093,C4095	C-CERAMIC,CHIP
2203-006305	C2016,C2019,C2046	C-CERAMIC,CHIP
2203-006305	L2021,L2031	C-CERAMIC,CHIP
2203-006318	C1042,C1043,C1050	C-CERAMIC,CHIP
2203-006318	C1065,C1122,C2089	C-CERAMIC,CHIP
2203-006318	L1029,L2022	C-CERAMIC,CHIP
2203-006400	C1107,C1114,C1130	C-CERAMIC,CHIP
2203-006400	C1200	C-CERAMIC,CHIP
2203-006410	C1078,C2092	C-CERAMIC,CHIP
2203-006423	C1025,C1045,C1139	C-CERAMIC,CHIP
2203-006423	C1145,C1146,C1147	C-CERAMIC,CHIP
2203-006423	C3000,C3001,C3002	C-CERAMIC,CHIP
2203-006423	C3010,C3011,C3012	C-CERAMIC,CHIP
2203-006423	C3016,C3017,C3018	C-CERAMIC,CHIP
2203-006423	C3019,C3020,C3021	C-CERAMIC,CHIP
2203-006423	C3022,C3029,C3030	C-CERAMIC,CHIP
2203-006423	C3031,C3032,C3033	C-CERAMIC,CHIP
2203-006423	C3034,C3035,C3036	C-CERAMIC,CHIP
2203-006423	C3037,C3038,C3039	C-CERAMIC,CHIP
2203-006423	C3040,C3041,C3042	C-CERAMIC,CHIP
2203-006423	C3043,C3044,C3045	C-CERAMIC,CHIP
2203-006423	C3046,C3047,C3048	C-CERAMIC,CHIP
2203-006423	C3052,C3054,C3055	C-CERAMIC,CHIP
2203-006423	C3056,C3057,C3058	C-CERAMIC,CHIP
2203-006423	C3068,C3069,C3070	C-CERAMIC,CHIP
2203-006423	C3076,C3077,C3078	C-CERAMIC,CHIP
2203-006423	C3080,C3081,C3082	C-CERAMIC,CHIP
2203-006423	C3083,C3084,C3085	C-CERAMIC,CHIP
2203-006423	C3086,C4005,C4016	C-CERAMIC,CHIP
2203-006423	C4022,C4024,C4056	C-CERAMIC,CHIP
2203-006423	C5010,C5013,C5019	C-CERAMIC,CHIP



## 5. MAIN Electrical Parts List

2203-006423	C5022,C5025,C6002	C-CERAMIC,CHIP
2203-006423	C6058,C6066	C-CERAMIC,CHIP
2203-006556	C5027	C-CERAMIC,CHIP
2203-006604	C4082,C4083,C4084	C-CERAMIC,CHIP
2203-006604	C4085	C-CERAMIC,CHIP
2203-006611	C1083	C-CERAMIC,CHIP
2203-006648	C2110	C-CERAMIC,CHIP
2203-006674	C1064	C-CERAMIC,CHIP
2203-006707	C2061	C-CERAMIC,CHIP
2203-006839	C3071,C3072,C4029	C-CERAMIC,CHIP
2203-006839	C4075,C6032	C-CERAMIC,CHIP
2203-006846	C1035	C-CERAMIC,CHIP
2203-006896	C1159,C5020,C5021	C-CERAMIC,CHIP
2203-006968	L1002,L2049	C-CERAMIC,CHIP
2203-006979	C1136,C1148,U1012	C-CERAMIC,CHIP
2203-007194	C2117,L1024,L1044	C-CERAMIC,CHIP
2203-007210	C3064,C4077,C5005	C-CERAMIC,CHIP
2203-007210	C5008,C5009,C5015	C-CERAMIC,CHIP
2203-007210	C5017	C-CERAMIC,CHIP
2203-007271	C4060,C4076	C-CERAMIC,CHIP
2203-007295	C2091	C-CERAMIC,CHIP
2203-007317	C4080,C6007,C6009	C-CERAMIC,CHIP
2203-007391	C1144,C2099,C4094	C-CERAMIC,CHIP
2203-007391	C4096,C5011	C-CERAMIC,CHIP
2203-007775	C2008,C2015,C2107	C-CERAMIC,CHIP
2203-007775	C3004,C3023,C3062	C-CERAMIC,CHIP
2203-007775	C3092,C4008,C4010	C-CERAMIC,CHIP
2203-007775	C4012,C4020,C4025	C-CERAMIC,CHIP
2203-007775	C4026,C4027,C4028	C-CERAMIC,CHIP
2203-007775	C4045,C5016,C5018	C-CERAMIC,CHIP
2203-007781	C3094,C3097,C3098	C-CERAMIC,CHIP
2203-007781	C3099,C3100,C3101	C-CERAMIC,CHIP
2203-007781	C3102,C3103,C4030	C-CERAMIC,CHIP
2203-007781	C4031,C4053,C4054	C-CERAMIC,CHIP
2203-007781	C4055,C4057,C4098	C-CERAMIC,CHIP
2203-007796	C2103,C3005,C3024	C-CERAMIC,CHIP
2203-007796	C3025,C3026,C3050	C-CERAMIC,CHIP
2203-007796	C3051,C3053,C3060	C-CERAMIC,CHIP
2203-007796	C3061,C3065,C3090	C-CERAMIC,CHIP

## 5. MAIN Electrical Parts List

2203-007796	C3091,C4004,C4006	C-CERAMIC,CHIP
2203-007796	C4007,C4009,C4011	C-CERAMIC,CHIP
2203-007796	C4013,C4014,C4019	C-CERAMIC,CHIP
2203-007796	C4023,C4050,C4062	C-CERAMIC,CHIP
2203-007796	C5001,C5002,C5003	C-CERAMIC,CHIP
2203-007796	C5006,C5007,C5014	C-CERAMIC,CHIP
2203-007796	C6004,C6006,C6011	C-CERAMIC,CHIP
2203-007796	C6012,C6018,C6020	C-CERAMIC,CHIP
2203-007796	C6030,C6041,C6051	C-CERAMIC,CHIP
2203-007796	C6057,C6059,C6060	C-CERAMIC,CHIP
2203-007796	C6073	C-CERAMIC,CHIP
2203-008094	C4073	C-CERAMIC,CHIP
2203-008097	C1033	C-CERAMIC,CHIP
2203-008242	C3049	C-CERAMIC,CHIP
2203-008572	C4035,C4038	C-CERAMIC,CHIP
2203-008654	C4091	C-CERAMIC,CHIP
2203-008749	C6036	C-CERAMIC,CHIP
2203-008860	C1141,C1149,C3066	C-CERAMIC,CHIP
2203-008860	C4033,C4037,C4049	C-CERAMIC,CHIP
2203-008860	C4051,C4064,C4069	C-CERAMIC,CHIP
2203-008860	C4071,C4079,C6016	C-CERAMIC,CHIP
2203-008860	C6019,C6021,C6027	C-CERAMIC,CHIP
2203-008860	C6040,C6070,C6072	C-CERAMIC,CHIP
2203-008876	C1026,C1032,C1135	C-CERAMIC,CHIP
2203-008876	C1140,C4002,C4003	C-CERAMIC,CHIP
2203-008876	C4034,C4036,C4039	C-CERAMIC,CHIP
2203-008876	C4040,C4043,C4044	C-CERAMIC,CHIP
2203-008876	C4046,C4047,C5000	C-CERAMIC,CHIP
2203-008876	C6031,C6067,C6077	C-CERAMIC,CHIP
2203-009733	C1034,C2012,C2073	C-CERAMIC,CHIP
2203-009733	C2074,C2104,C4048	C-CERAMIC,CHIP
2203-009733	C4059,C4089,C6010	C-CERAMIC,CHIP
2203-009733	C6014,C6033,C6037	C-CERAMIC,CHIP
2203-009733	C6039,C6046,C6048	C-CERAMIC,CHIP
2203-010085	C3063,C4058,C4063	C-CERAMIC,CHIP
2703-002268	L2052	INDUCTOR-SMD
2703-002308	L5015	INDUCTOR-SMD
2703-002649	C1069,L1030,L1039	INDUCTOR-SMD
2703-002900	L1047	INDUCTOR-SMD

---

## 5. MAIN Electrical Parts List

---

2703-002901	C1150	INDUCTOR-SMD
2703-002903	C1036,L1023,L1083	INDUCTOR-SMD
2703-002907	C2067	INDUCTOR-SMD
2703-002951	L1041,L4009,L4011	INDUCTOR-SMD
2703-002953	L1034	INDUCTOR-SMD
2703-002955	C1021,L1084,L1085	INDUCTOR-SMD
2703-002955	L1086,L1087,L2009	INDUCTOR-SMD
2703-002955	L4010,L4012	INDUCTOR-SMD
2703-002958	L1003	INDUCTOR-SMD
2703-002959	L2005,L2008,L2012	INDUCTOR-SMD
2703-002959	L2048,L2057	INDUCTOR-SMD
2703-002999	C1104,L1063	INDUCTOR-SMD
2703-003004	C1054,C1089,L1090	INDUCTOR-SMD
2703-003878	L5008	INDUCTOR-SMD
2703-003970	C1079,L1009,L1042	INDUCTOR-SMD
2703-003970	L1049	INDUCTOR-SMD
2703-004012	C1055,C2056,C2057	INDUCTOR-SMD
2703-004012	C2063,L1018,L1027	INDUCTOR-SMD
2703-004012	L2000	INDUCTOR-SMD
2703-004013	C1028,C1044,C1058	INDUCTOR-SMD
2703-004013	C1059,C1143,C2029	INDUCTOR-SMD
2703-004013	L1031,L1068,L1073	INDUCTOR-SMD
2703-004013	L2062	INDUCTOR-SMD
2703-004014	L1055,L2039,L2054	INDUCTOR-SMD
2703-004018	C1113,L1056,L1069	INDUCTOR-SMD
2703-004034	C1005,C1097,C1121	INDUCTOR-SMD
2703-004034	C2003,L1004,L1010	INDUCTOR-SMD
2703-004034	L1054,L2037	INDUCTOR-SMD
2703-004036	C2059	INDUCTOR-SMD
2703-004193	L5017,L5018	INDUCTOR-SMD
2703-004259	L1033	INDUCTOR-SMD
2703-004286	C1018,C1109,C2024	INDUCTOR-SMD
2703-004286	C2031,C2058,L1019	INDUCTOR-SMD
2703-004286	L1025,L1053,L1079	INDUCTOR-SMD
2703-004286	L1089,L2029,L2032	INDUCTOR-SMD
2703-004286	L2038	INDUCTOR-SMD
2703-004288	C1103,L1028,L2002	INDUCTOR-SMD
2703-004288	L2044	INDUCTOR-SMD
2703-004289	C1118,C2047,L1072	INDUCTOR-SMD

## 5. MAIN Electrical Parts List

2703-004290	L1051	INDUCTOR-SMD
2703-004300	C1086,L1007,L1078	INDUCTOR-SMD
2703-004300	L2001	INDUCTOR-SMD
2703-004301	L1064	INDUCTOR-SMD
2703-004317	C1019,C1038,C1080	INDUCTOR-SMD
2703-004317	C1094,C1101,C1119	INDUCTOR-SMD
2703-004317	L1000,L1008,L1020	INDUCTOR-SMD
2703-004317	L1021,L1058	INDUCTOR-SMD
2703-004328	C1051,L1059,L2007	INDUCTOR-SMD
2703-004328	L2019,L2061	INDUCTOR-SMD
2703-004362	C2066,L2059	INDUCTOR-SMD
2703-004363	C2052	INDUCTOR-SMD
2703-004366	L1043,L2043	INDUCTOR-SMD
2703-004367	L2046	INDUCTOR-SMD
2703-004368	C1116	INDUCTOR-SMD
2703-004684	L3000	INDUCTOR-SMD
2703-004763	C1048	INDUCTOR-SMD
2703-004862	L1060,L2045	INDUCTOR-SMD
2703-004947	L4003,L4005	INDUCTOR-SMD
2703-004976	C2120	INDUCTOR-SMD
2703-005058	L1022	INDUCTOR-SMD
2703-005067	L4007,L4008	INDUCTOR-SMD
2703-005085	C1017,C2055	INDUCTOR-SMD
2703-005087	C1171,C2037,C2041	INDUCTOR-SMD
2703-005087	L1048	INDUCTOR-SMD
2703-005088	C2033	INDUCTOR-SMD
2703-005089	C1007	INDUCTOR-SMD
2703-005101	L2015	INDUCTOR-SMD
2703-005109	L4002	INDUCTOR-SMD
2703-005116	L6005	INDUCTOR-SMD
2703-005118	L6003	INDUCTOR-SMD
2703-005224	L4006	INDUCTOR-SMD
2703-005339	L4013,L4014	INDUCTOR-SMD
2801-005300	OSC4000	CRYSTAL-UNIT
2904-002137	F1100	FILTER-SAW
2904-002143	F1001	FILTER-SAW
2904-002198	F2004	FILTER-SAW
2904-002326	F2005	FILTER-SAW
2904-002339	F2000	FILTER-SAW

---

## 5. MAIN Electrical Parts List

---

2904-002350	F1005	FILTER-SAW
2904-002355	F2002	FILTER-SAW
2904-002381	F2006	FILTER-SAW
2904-002394	F2003	FILTER-SAW
2904-002397	F1004	FILTER-SAW
2910-000364	F1000	FILTER
2910-000401	F1006	FILTER
2910-000402	F1003	FILTER
2911-000435	U2005	FILTER
2911-000450	U1003	FILTER
3003-001215	MIC5000	MIC-CONDENSOR
3301-001812	L6004	CORE-FERRITE BEAD
3301-001885	L5016	CORE-FERRITE BEAD
3301-001901	L6002	CORE-FERRITE BEAD
3301-002078	L5013,L5014	CORE-FERRITE BEAD
3301-002122	L5019,L5020	CORE-FERRITE BEAD
3301-002223	L6000,L6010	CORE-FERRITE BEAD
3301-002236	L2016,L2023,L5005	CORE-FERRITE BEAD
3301-002236	L5007,L5009,L5011	CORE-FERRITE BEAD
3301-002236	L5012,U1009	CORE-FERRITE BEAD
3301-002237	L1001,L1017,L1077	CORE-FERRITE BEAD
3301-002237	L6006,L6007	CORE-FERRITE BEAD
3301-002238	L2006	CORE-FERRITE BEAD
3301-002248	L2053	CORE-FERRITE BEAD
3301-002254	L4000	CORE-FERRITE BEAD
3301-002286	L5010	CORE-FERRITE BEAD
3301-002309	L2041,L5004	CORE-FERRITE BEAD
3301-002312	L4004	CORE-FERRITE BEAD
3705-001708	RFS1000	CONNECTOR-COAXIAL
3709-001880	CD4000	CONNECTOR-CARD
3709-001891	CD4001	CONNECTOR-CARD
3711-007295	HDC6001	CONNECTOR-HEADER
3711-008511	HDC6000	CONNECTOR-HEADER
3711-009045	HDC4000	CONNECTOR-HEADER
3711-009357	U6002	CONNECTOR-HEADER
3712-001604	ANT6010,ANT6013	CONNECTOR
3712-001621	ANT6009,ANT6011	CONNECTOR
3712-001621	ANT6012,ANT6014	CONNECTOR
3712-001621	ANT6021	CONNECTOR

---

## 5. MAIN Electrical Parts List

---

3712-001626	ANT5000,ANT5003	CONNECTOR
3712-001666	ANT1001,ANT1002	CONNECTOR
3712-001666	ANT2000,ANT2001	CONNECTOR
3712-001666	ANT2003,ANT2004	CONNECTOR
3712-001666	ANT5001,ANT5002	CONNECTOR
3712-001694	ANT4000,ANT4001	CONNECTOR
3712-001694	ANT4002,ANT4004	CONNECTOR
3712-001694	ANT4005,ANT4006	CONNECTOR
3712-001694	ANT4007,ANT4008	CONNECTOR
3722-003954	IFC4000	JACK-PHONE
3722-004146	CN6000	JACK-PHONE
4709-002412	CPL1000	RF-MODULE
GH61-13156A	SUS1001	SHIELD CAN
GH62-00042A	SMR6000	SHIELD CAN
GH63-09457A	SC2000	SHIELD CAN
GH63-13772A	SC2004	SHIELD CAN
GH63-15420A	SC2003	SHIELD CAN
GH63-15421A	SC2002	SHIELD CAN
GH63-16233A	SC2006	SHIELD CAN
GH63-16234A	SC2007	SHIELD CAN
GH63-16235A	SC2005	SHIELD CAN
GH02-16421A	SC2006SP	TAPE

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

---

## 6. Level 1 Repair

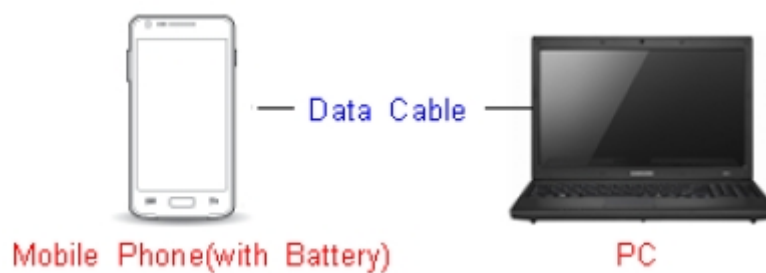
---

### 6-1. S/W Update

#### 6-1-1. Preparation

- S/W Update program : [Fenrir 5.17.xxxx](#)
- Mobile Phone
- Data Cable

#### ※ Settings



Data Cable : [GH39-01710D](#)

---

## 6. Level 1 Repair

---

### 6-1-2. How to use 'Fenrir' S/W update program.

1) Launch Fenrir by clicking on the icon on the desktop



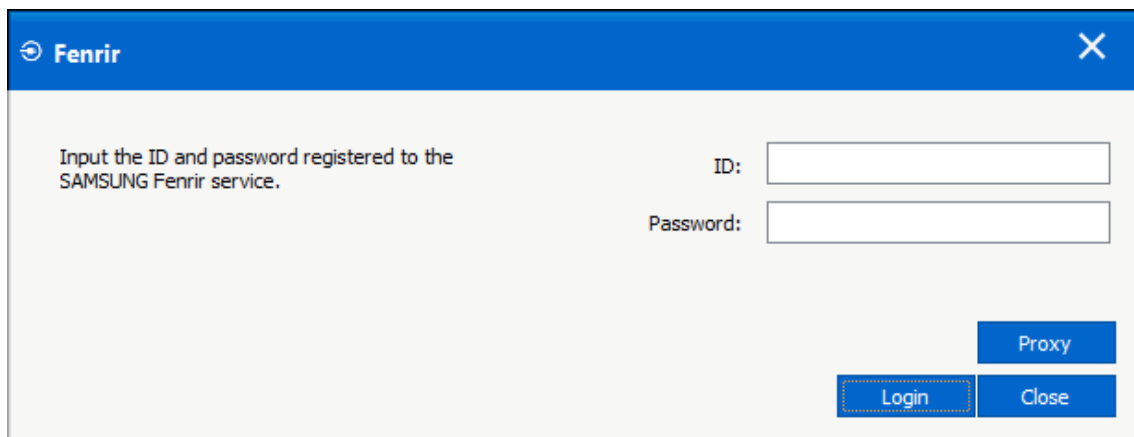
- SVH (Fenrir\_Home) : It uses Home binary which does not have user data area in the memory when flashed to a device. (Keep user data)

- SVC (Fenrir\_Factory) : It uses Factory binary which erases all user data in the memory when flashed to a device. (Clear user data)

- SVA (Fenrir\_All) : It uses Factory and Home binaries. you can download Home and Factory binary in a PC (but requires double HDD storage and NW traffic)

2) Input ID & password

※ You need to reset the ID information in case of PC change and format and repair, hard disk change

A screenshot of the Fenrir login window. The window has a blue title bar with the 'Fenrir' logo and a close button. The main area is light gray. On the left, it says 'Input the ID and password registered to the SAMSUNG Fenrir service.' On the right, there are two input fields: 'ID:' and 'Password:'. Below the 'Password:' field, there are three buttons: 'Proxy' (blue), 'Login' (blue with a dashed border), and 'Close' (blue).

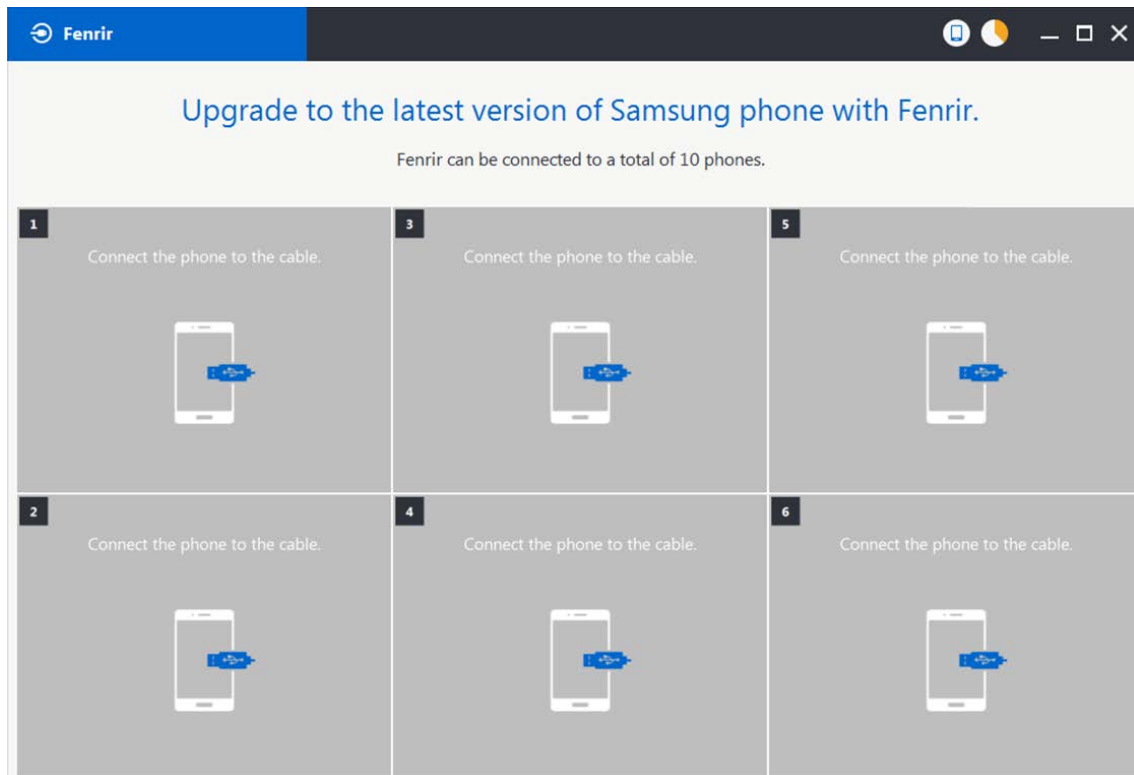


---

## 6. Level 1 Repair

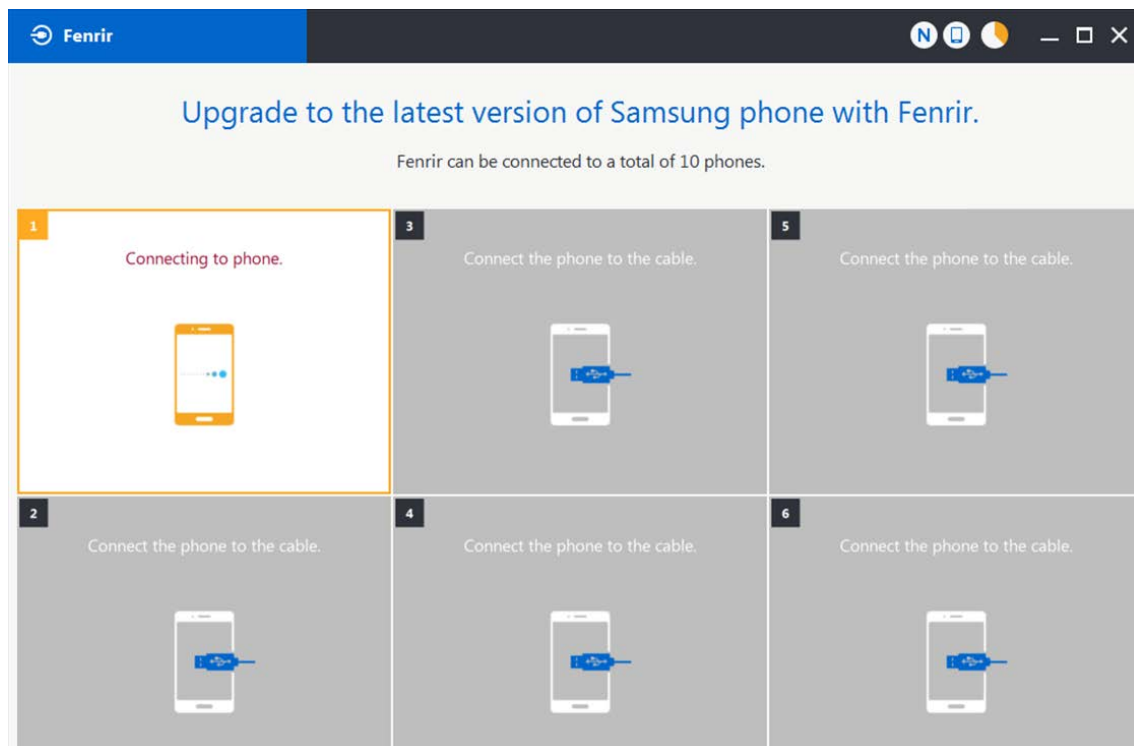
---

3) Ensure device has sufficient charge (at least 20%) to start firmware update.



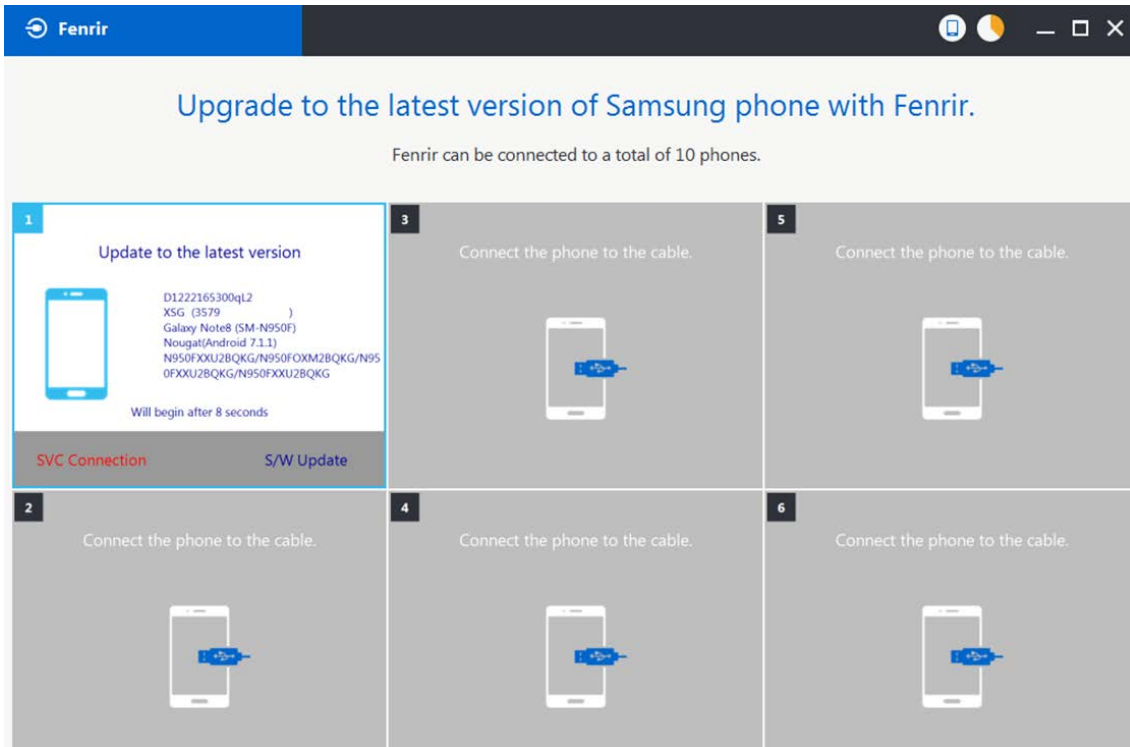
4) Connect the device to PC via data cable.

5) Upon USB connection, you will be presented with below screen.

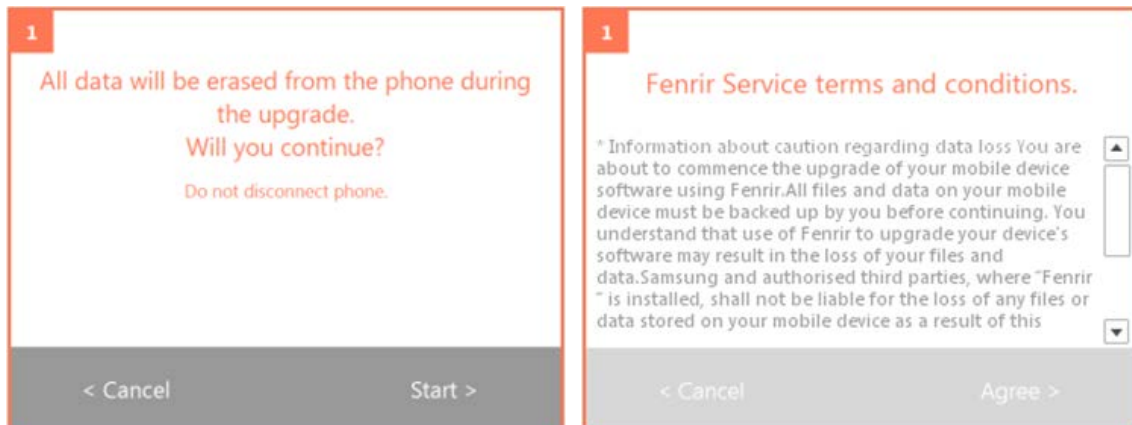


## 6. Level 1 Repair

6) Once device is detected, you will be presented with below screen. To update S/W, select “S/W Update” or to exit select “SVC Connection”. If you select “SVC Connection”, only Fenrir connection history (record) will be stored in the FUS server to support warranty validation. (This is known as “Service Connection” history)

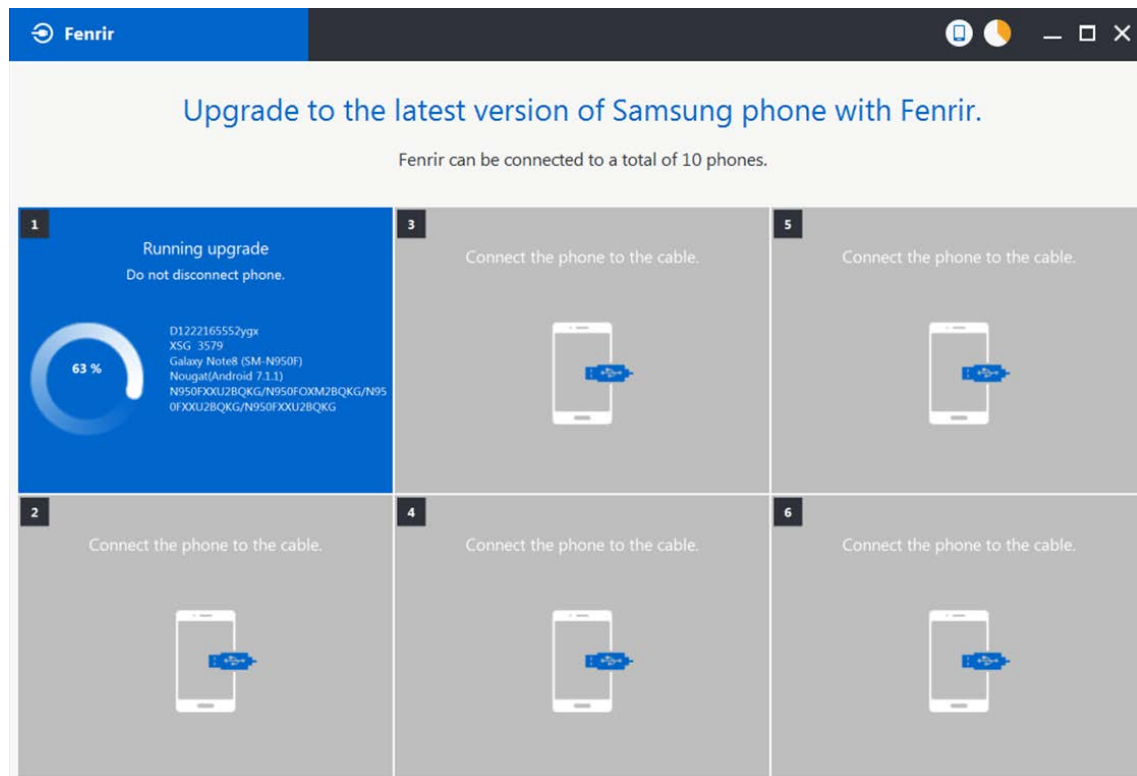


7) Once Fenrir starts, application will display the below screen. And select the Start button & Agree button.

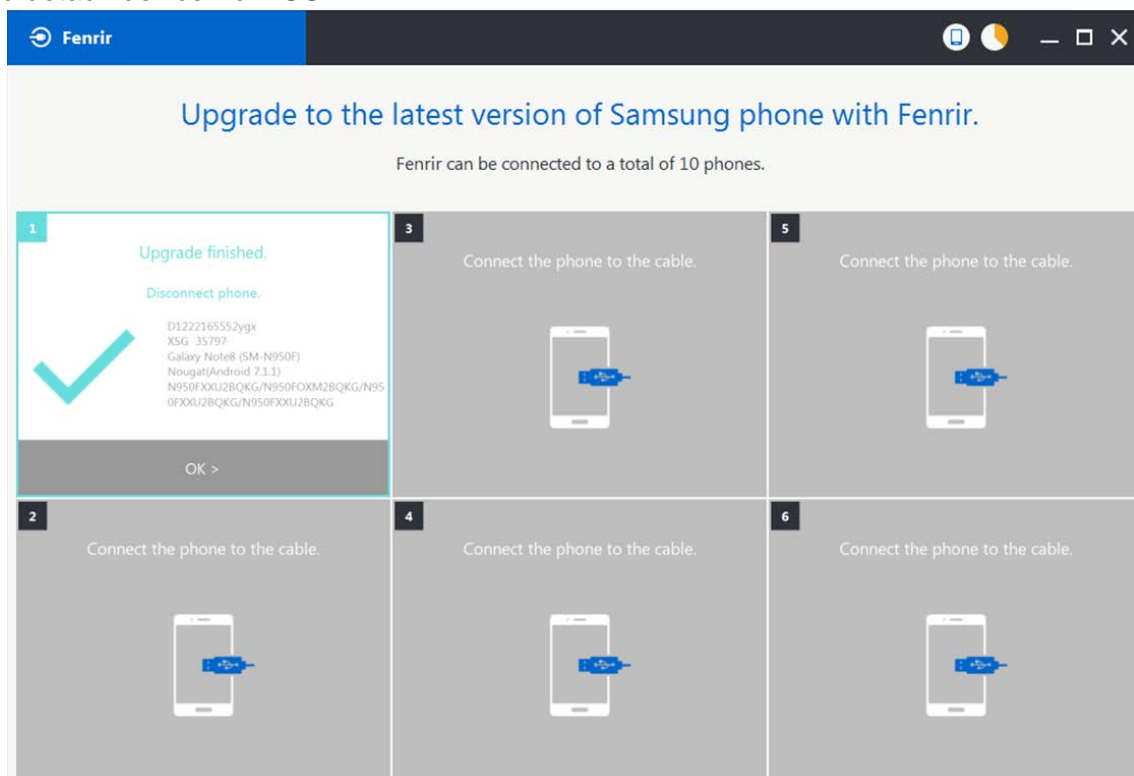


## 6. Level 1 Repair

8) The status circle increases as the update installs. The update process takes approximately 5-10 minutes to complete. Do not disconnect the device from USB during processing.



9) Once complete, application will present the below screen indicating update complete. Click Ok and detach device from USB.



---

## 6. Level 1 Repair

---

### 6-2. How to use 'Odin' program

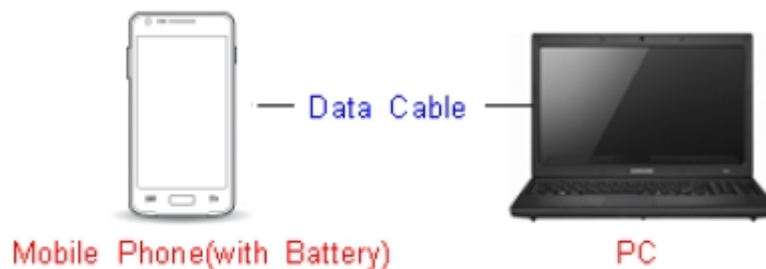
※ S/W Update via Fenrir is mandatory.

Below is the method to use 'Odin' program in any specific case.

#### 6-2-1. Preparation

- Installation program : [Odin3 v3.13.2.exe or above](#)
- Mobile Phone
- Data Cable
- S/W Binary files (downloaded from GSPN)

#### ※ Settings



Data Cable : [GH39-01710D](#)

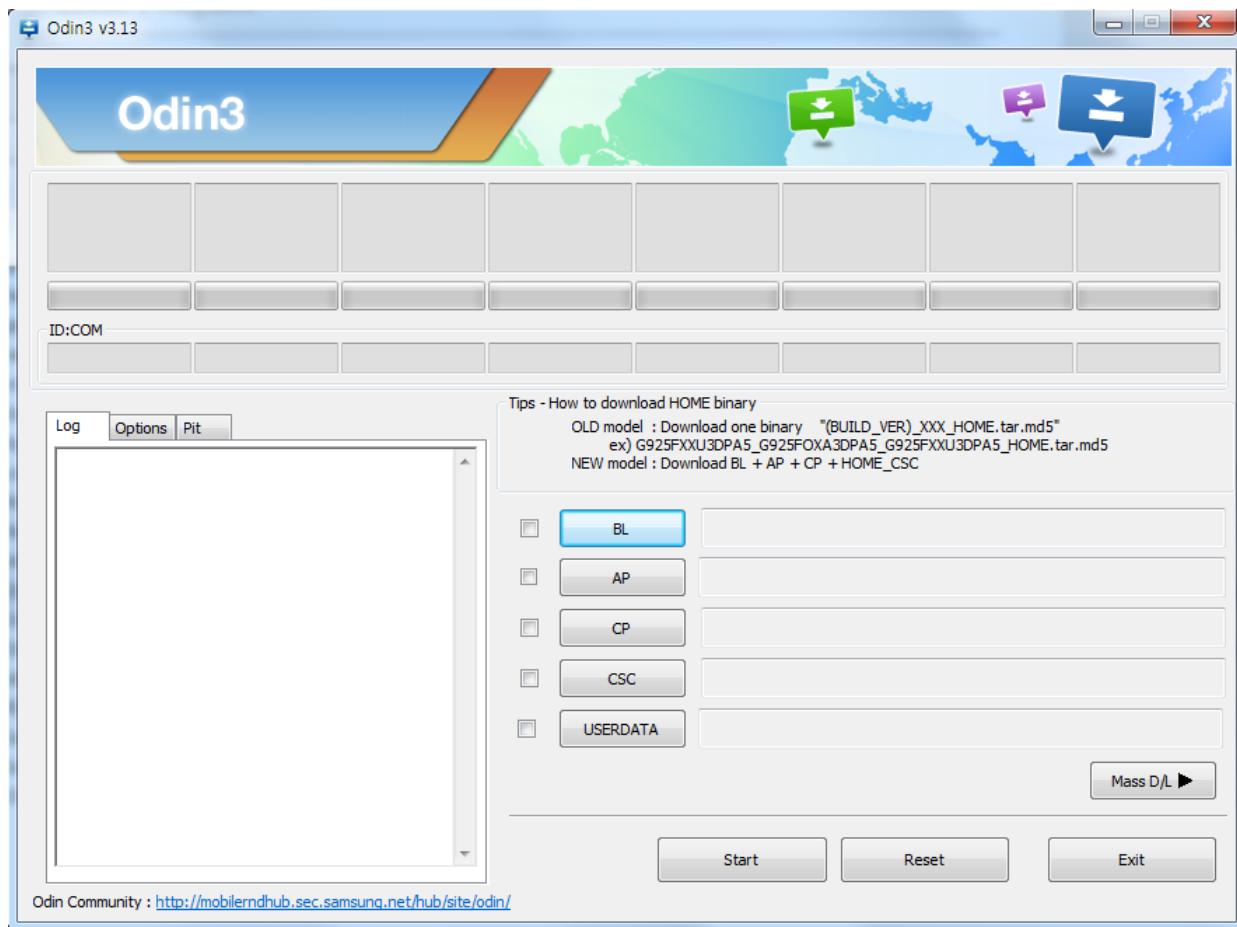
---

## 6. Level 1 Repair

---

### 6-2-2. S/W Installation Program (Downloader program)

Open up the S/W Installation Program by executing the "**Odin3 v3.13.2.exe**"

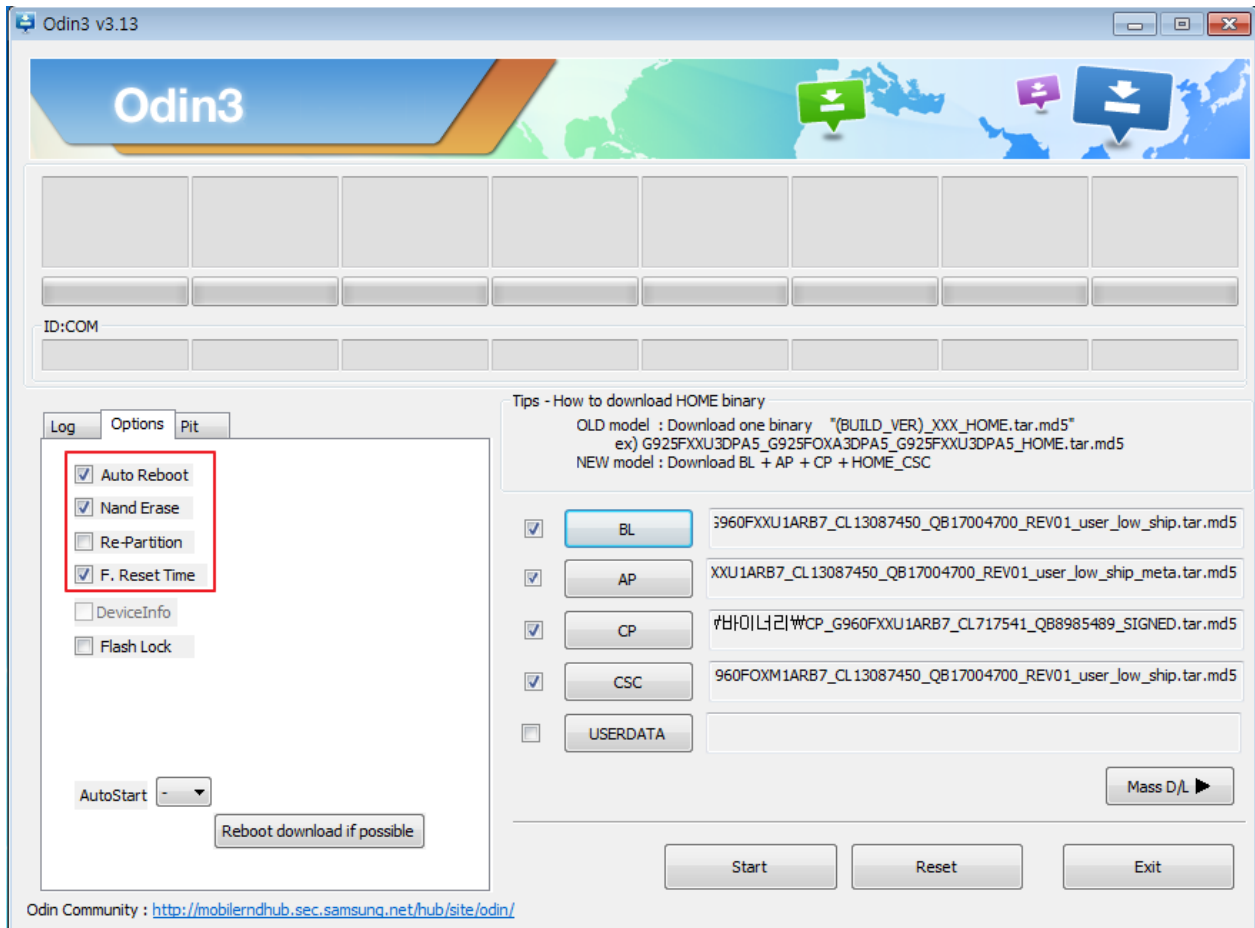


## 6. Level 1 Repair

1. Enable the check mark by click on the following options

- Check Auto Reboot, F. Reset Time, Nand Erase
- Check BL, AP, CP, CSC Files

\* Note : "Odin v3.13.2 or above" checks MD5 checksum just after file selection.



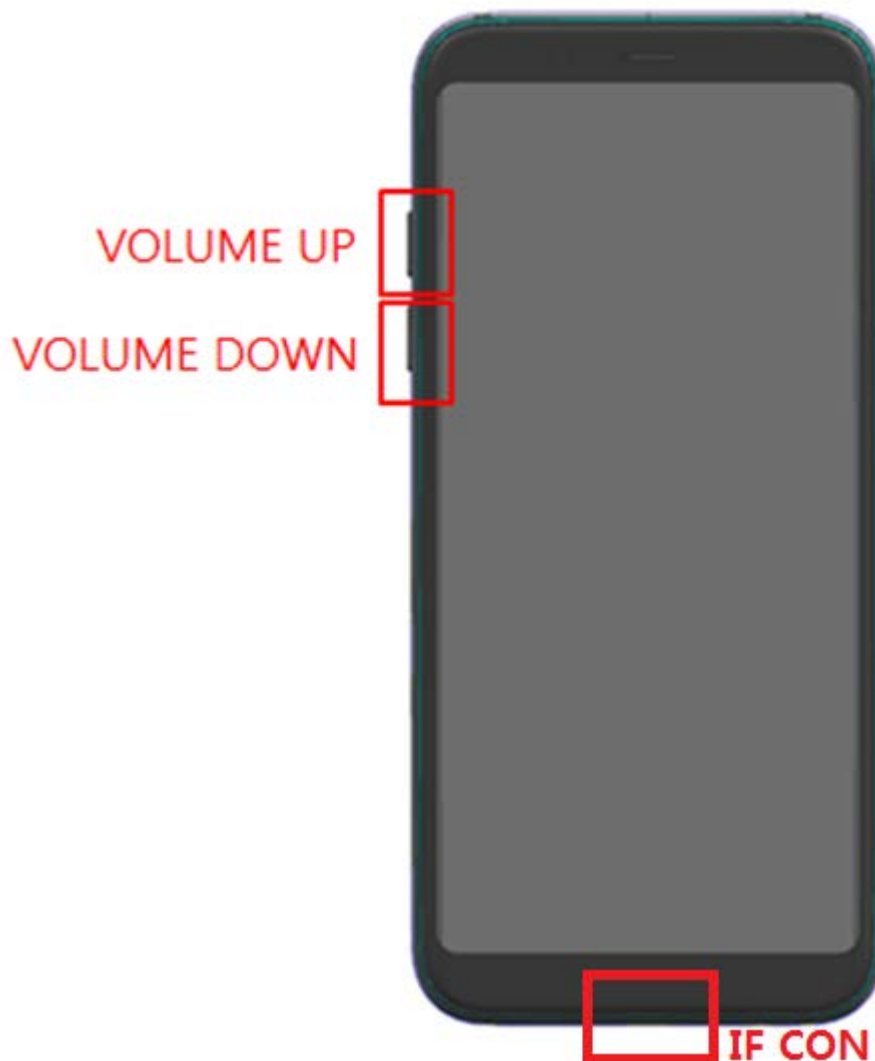
---

## 6. Level 1 Repair

---

### 2. Enter into Download Mode

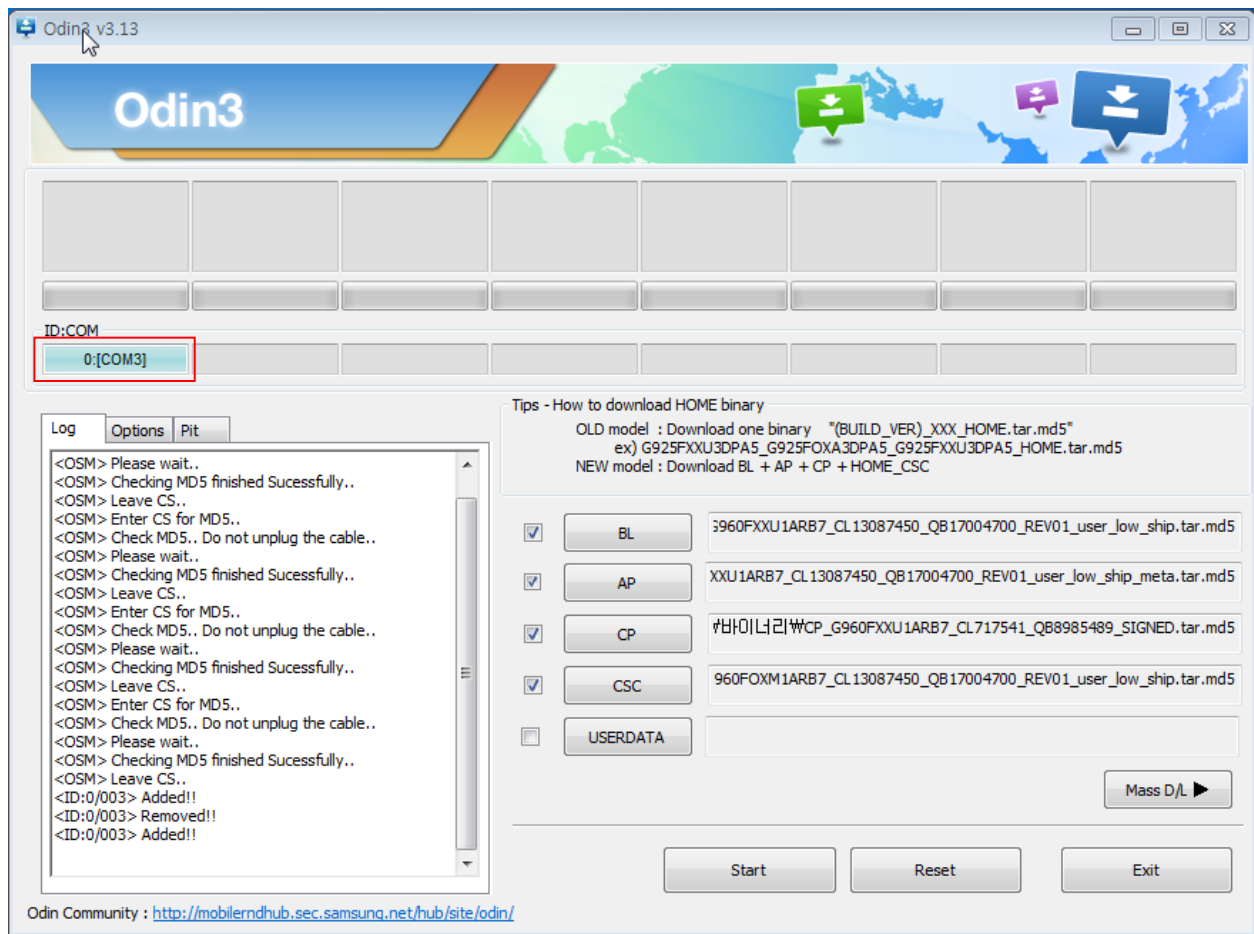
- Enter into Download Mode by pressing Volume Down button, Intelligence button and ON/OFF Button simultaneously followed by pressing Volume up button as a direction of the phone.



## 6. Level 1 Repair

### 3. Connect the device to PC via Data Cable.

Make sure that the one of communication ports [ID:COM] box is highlighted in sky blue.  
The device is now connected with the PC and ready to download the binary files in it.





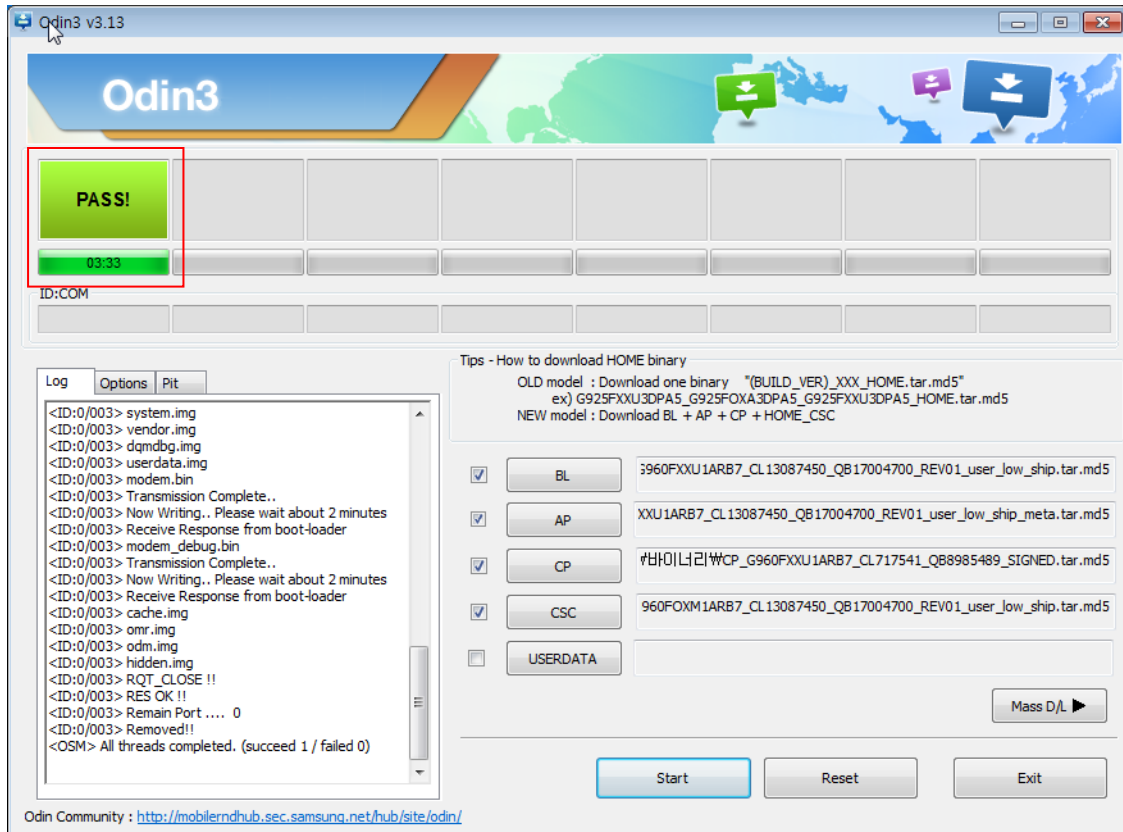
---

## 6. Level 1 Repair

---

4. Start downloading the binary files into the device by clicking Start button on the screen.

The green colored "PASS!" sign will appear on the upper-left box if the binary files have been successfully downloaded into the device.



5. Disconnect the device from the Data cable.

6. Once the device boots up, you can check the version of the binary file or name by pressing the following code in sequence; **\*#1234#**

You can perform Factory data Reset by Settings → General Management → Reset

**※ Caution. Never disconnect during the S/W downloading.**

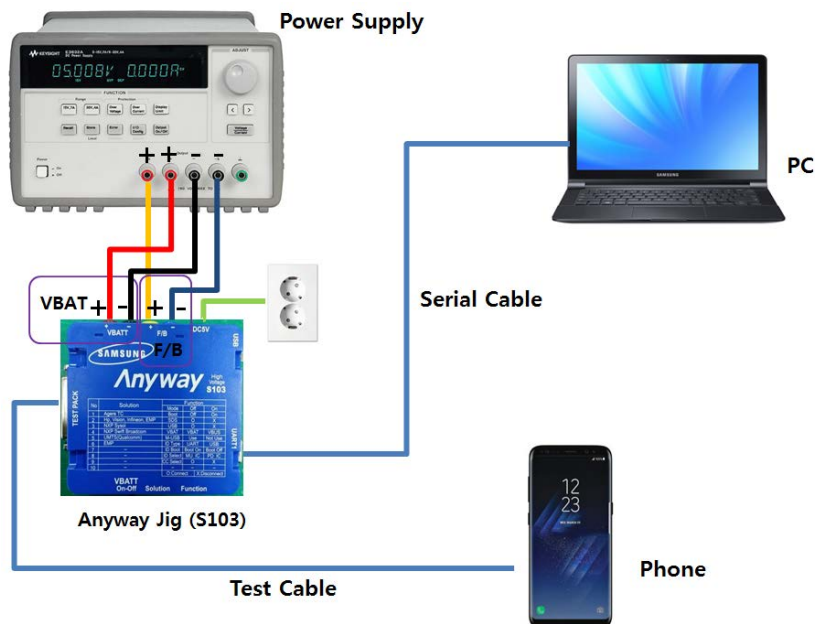
## 6. Level 1 Repair

### 6-3. IMEI writing

#### 6-3-1. Preparation

- New IMEI writing Program has been released.
- Supported Model : Models which CAB files are uploaded on HHPsvc INI File category, instead of ini file.
- Refer to below IMEI writing procedure.

#### - H/W



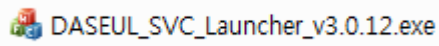
#### - S/W

① Library Install	To use Daseul, library files should be installed. Refer to SVC Bulletin “(11-82) Daseul (New IMEI writing Program) Library Install guide_rev1.0”
② Launcher	<b>DASEUL_SVC_Launcher_v3.0.12</b> or higher -Uploaded on HHPsvc Notice
③ Runtime File	1. <b>DASEUL_IMEI_ALL_Runtime_3.1.348.0_r00519.CAB</b> or higher -Uploaded on HHPsvc Notice 2. Make 'SM-J410F' folder at the same position with launcher & Runtime file. <div> DASEUL_IMEI_ALL_Runtime_3.1.348.0_r00519.CAB  DASEUL_Launcher_v4.0.0.exe  SM-G960F_SS(CSC)_IMEI_Ver_3.1.343.10.CAB</div>
④ Model File	Copy Model File under the 'SM-J410F' folder

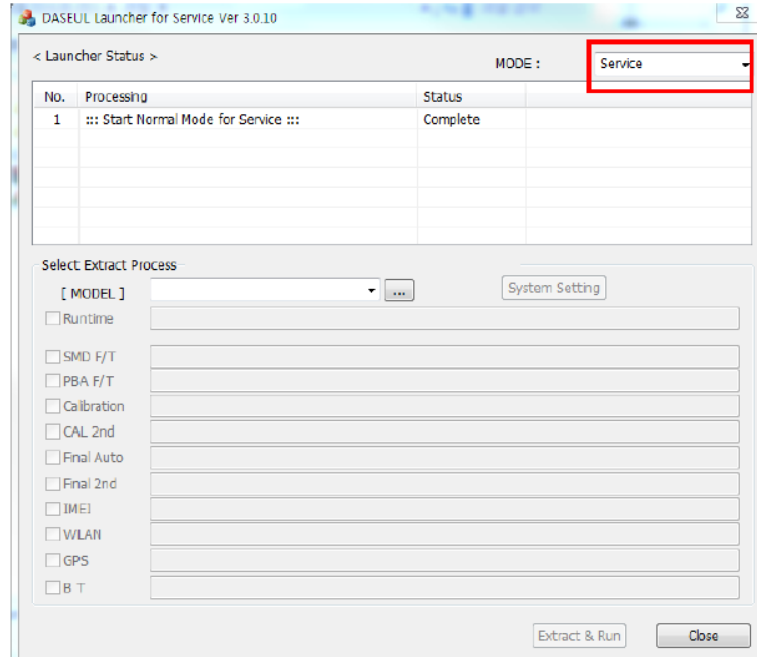
## 6. Level 1 Repair

### 6-3-2. IMEI writing Process

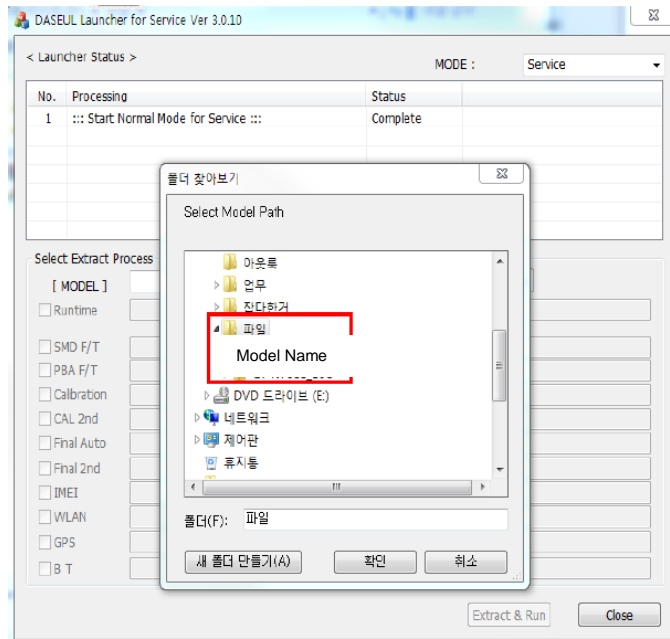
1. Run DASEUL\_SVC\_Launcher\_v3.0.12.exe



2. Select Service Mode

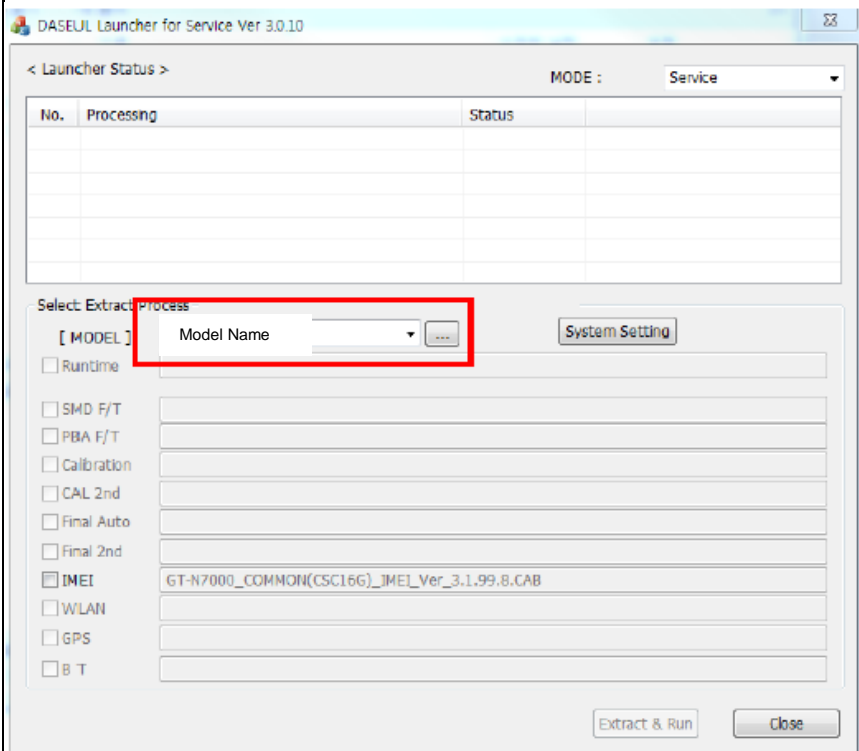


3. Click  and Select folder where the Launcher exists



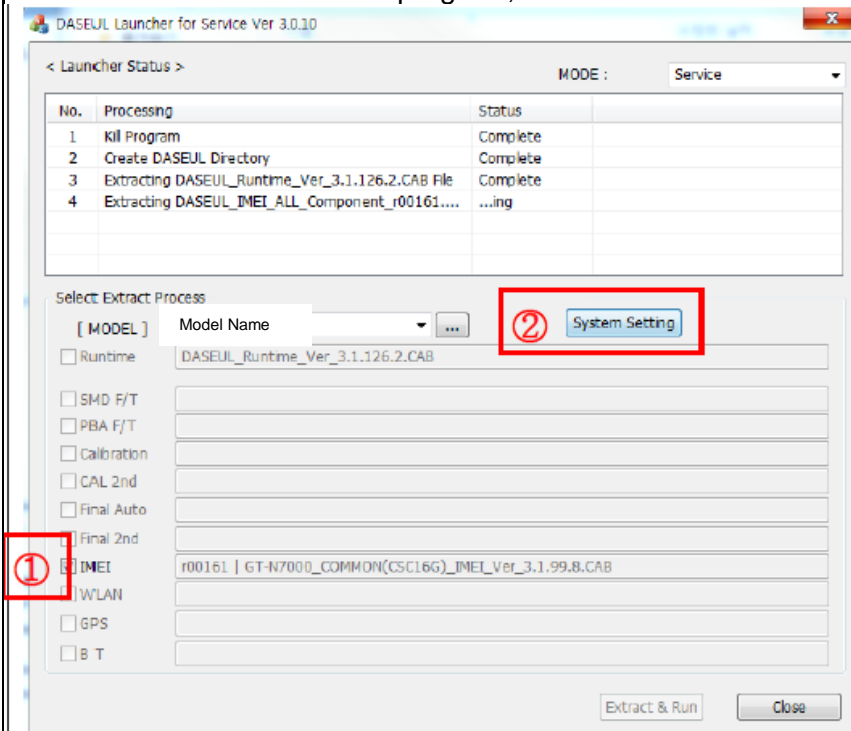
## 6. Level 1 Repair

### 4. Select Model



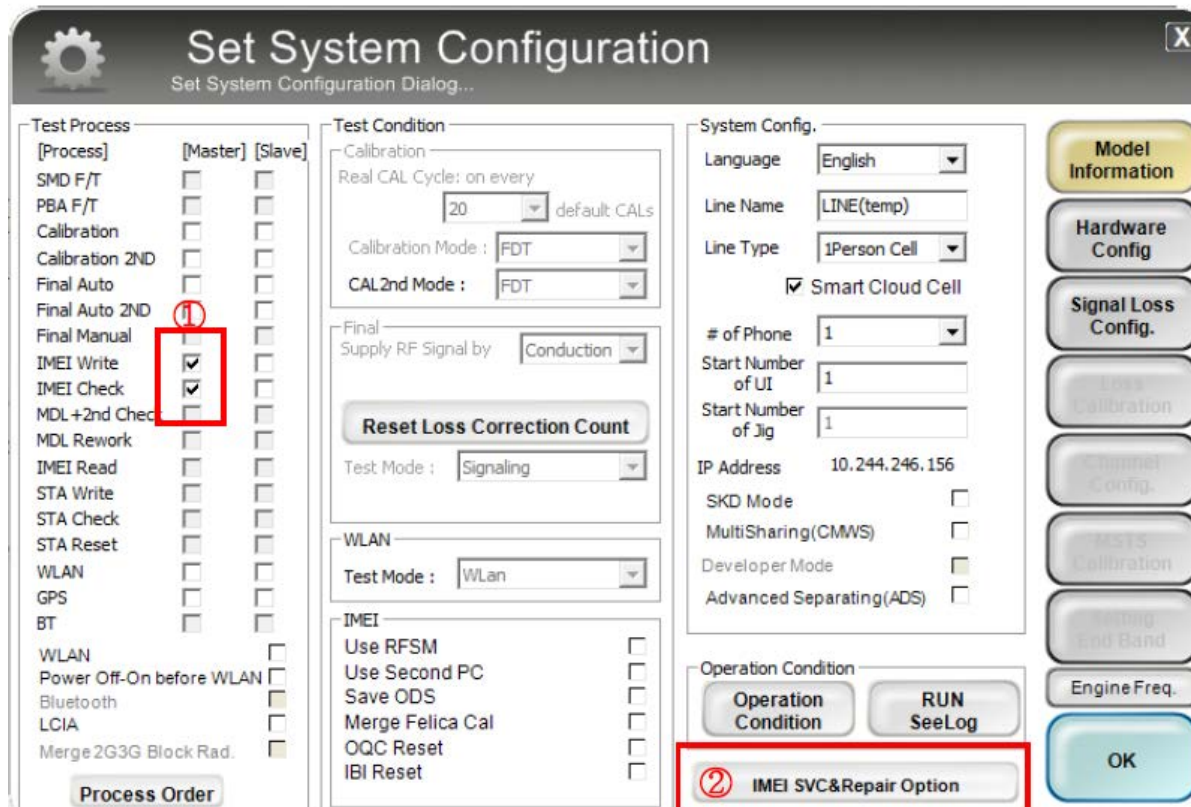
### 5. Check IMEI and click System Setting

※ Once you setup the setting, you don't have to do it again, unless there is change.  
From second run of the IMEI program, check IMEI and click Extract & Run.



## 6. Level 1 Repair

6. Check IMEI Write / IMEI Check and click IMEI SVC & Repair Option.



The 'Set System Configuration' dialog box is shown. It has a title bar with a gear icon and a close button. The main area is divided into several sections: 'Test Process' on the left with a list of checkboxes for various tests; 'Test Condition' in the middle with dropdowns for calibration and RF signal; 'System Config.' on the right with fields for language, line name, and other settings; and a 'Model Information' sidebar on the far right. A red box highlights the 'IMEI Write' and 'IMEI Check' checkboxes in the 'Test Process' section, with a circled '1' next to them. Another red box highlights the 'IMEI SVC&Repair Option' button at the bottom, with a circled '2' next to it.

Test Process	[Master]	[Slave]
SMD F/T	<input type="checkbox"/>	<input type="checkbox"/>
PBA F/T	<input type="checkbox"/>	<input type="checkbox"/>
Calibration	<input type="checkbox"/>	<input type="checkbox"/>
Calibration 2ND	<input type="checkbox"/>	<input type="checkbox"/>
Final Auto	<input type="checkbox"/>	<input type="checkbox"/>
Final Auto 2ND	<input type="checkbox"/>	<input type="checkbox"/>
Final Manual	<input type="checkbox"/>	<input type="checkbox"/>
IMEI Write	<input checked="" type="checkbox"/>	<input type="checkbox"/>
IMEI Check	<input checked="" type="checkbox"/>	<input type="checkbox"/>
MDL+2nd Check	<input type="checkbox"/>	<input type="checkbox"/>
MDL Rework	<input type="checkbox"/>	<input type="checkbox"/>
IMEI Read	<input type="checkbox"/>	<input type="checkbox"/>
STA Write	<input type="checkbox"/>	<input type="checkbox"/>
STA Check	<input type="checkbox"/>	<input type="checkbox"/>
STA Reset	<input type="checkbox"/>	<input type="checkbox"/>
WLAN	<input type="checkbox"/>	<input type="checkbox"/>
GPS	<input type="checkbox"/>	<input type="checkbox"/>
BT	<input type="checkbox"/>	<input type="checkbox"/>
WLAN	<input type="checkbox"/>	<input type="checkbox"/>
Power Off-On before WLAN	<input type="checkbox"/>	<input type="checkbox"/>
Bluetooth	<input type="checkbox"/>	<input type="checkbox"/>
LCIA	<input type="checkbox"/>	<input type="checkbox"/>
Merge 2G3G Block Rad.	<input type="checkbox"/>	<input type="checkbox"/>

Test Condition

Calibration

Real CAL Cycle: on every 20 default CALs

Calibration Mode: FDT

CAL2nd Mode: FDT

Final Supply RF Signal by: Conduction

Reset Loss Correction Count

Test Mode: Signaling

WLAN

Test Mode: WLAN

IMEI

Use RFSM ☐

Use Second PC ☐

Save ODS ☐

Merge Felica Cal ☐

OQC Reset ☐

IBI Reset ☐

System Config.

Language: English

Line Name: LINE(temp)

Line Type: 1Person Cell

☒ Smart Cloud Cell

# of Phone: 1

Start Number of UI: 1

Start Number of Jig: 1

IP Address: 10.244.246.156

SKD Mode ☐

MultiSharing(CMWS) ☐

Developer Mode ☐

Advanced Separating(ADS) ☐

Operation Condition

Operation Condition

IMEI SVC&Repair Option

Model Information

Hardware Config

Signal Loss Config.

Loss Calibration

Channel Config.

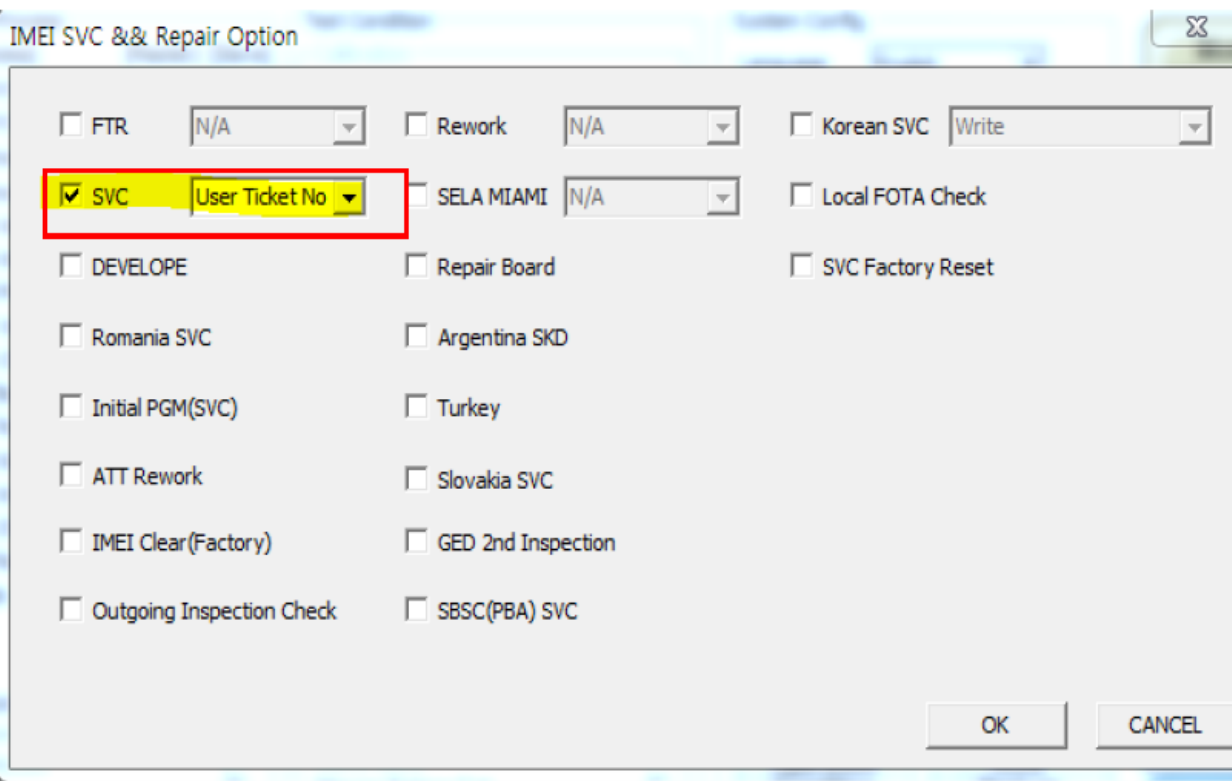
MSIS Calibration

Setting End Band

Engine Freq.

OK

7. Check 'SVC , User Ticket No' and click OK



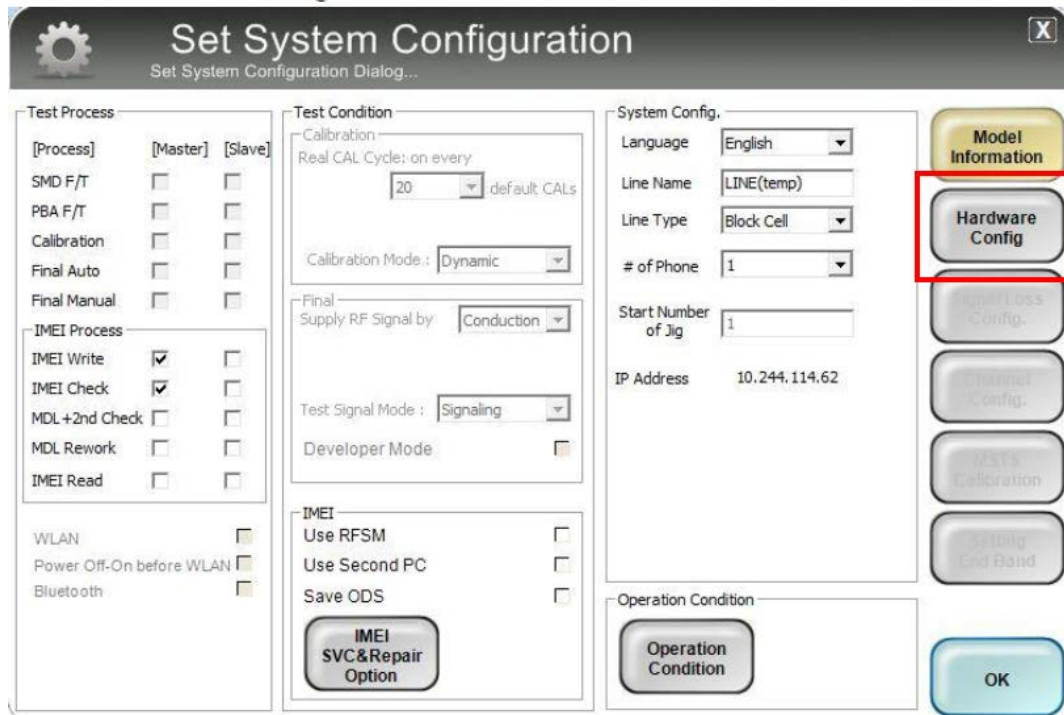
The 'IMEI SVC && Repair Option' dialog box is shown. It has a title bar with a close button. The main area contains a grid of checkboxes and dropdown menus for various service options. A red box highlights the 'SVC' checkbox and the 'User Ticket No' dropdown menu. The 'OK' and 'CANCEL' buttons are at the bottom right.

<input type="checkbox"/> FTR	N/A	<input type="checkbox"/> Rework	N/A	<input type="checkbox"/> Korean SVC	Write
<input checked="" type="checkbox"/> SVC	User Ticket No	<input type="checkbox"/> SELA MIAMI	N/A	<input type="checkbox"/> Local FOTA Check	
<input type="checkbox"/> DEVELOPE		<input type="checkbox"/> Repair Board		<input type="checkbox"/> SVC Factory Reset	
<input type="checkbox"/> Romania SVC		<input type="checkbox"/> Argentina SKD			
<input type="checkbox"/> Initial PGM(SVC)		<input type="checkbox"/> Turkey			
<input type="checkbox"/> ATT Rework		<input type="checkbox"/> Slovakia SVC			
<input type="checkbox"/> IMEI Clear(Factory)		<input type="checkbox"/> GED 2nd Inspection			
<input type="checkbox"/> Outgoing Inspection Check		<input type="checkbox"/> SBSC(PBA) SVC			

OK CANCEL

## 6. Level 1 Repair

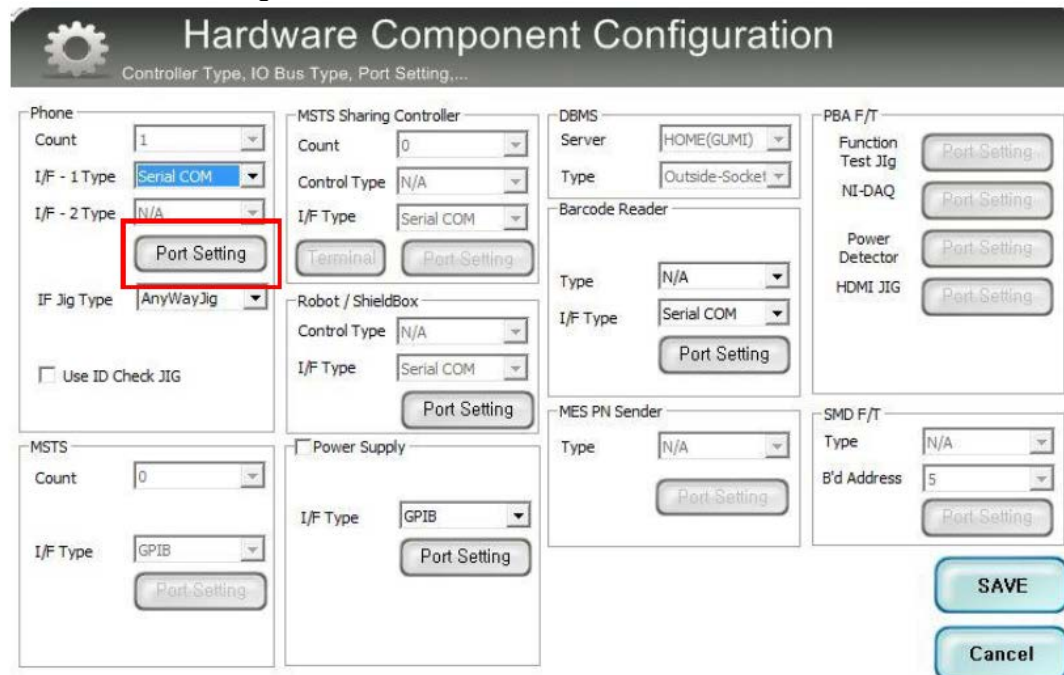
### 8. Click 'Hardware Config'



The 'Set System Configuration' dialog box is shown. It has a title bar with a gear icon and the text 'Set System Configuration Dialog...'. The dialog is divided into several sections:

- Test Process:** Includes checkboxes for [Process], [Master], [Slave], SMD F/T, PBA F/T, Calibration, Final Auto, Final Manual, IMEI Process, IMEI Write, IMEI Check, MDL+2nd Check, MDL Rework, IMEI Read, WLAN, Power Off-On before WLAN, and Bluetooth.
- Test Condition:** Includes a 'Calibration' section with 'Real CAL Cycle: on every' (20) and 'default CALs', a 'Calibration Mode' dropdown (Dynamic), a 'Final Supply RF Signal by' dropdown (Conduction), a 'Test Signal Mode' dropdown (Signaling), and a 'Developer Mode' checkbox. It also has an 'IMEI' section with checkboxes for 'Use RFSM', 'Use Second PC', and 'Save ODS', and an 'IMEI SVC&Repair Option' button.
- System Config:** Includes a 'Language' dropdown (English), 'Line Name' (LINE(temp)), 'Line Type' (Block Cell), '# of Phone' (1), 'Start Number of Jig' (1), and 'IP Address' (10.244.114.62). It also has an 'Operation Condition' button.
- Model Information:** A vertical sidebar on the right with buttons for 'Model Information', 'Hardware Config' (highlighted with a red box), 'Signal Loss Config', 'Channel Config', 'MSTs Calibration', 'Setting End Band', and 'OK'.

### 9. Click 'Port Setting'



The 'Hardware Component Configuration' dialog box is shown. It has a title bar with a gear icon and the text 'Controller Type, IO Bus Type, Port Setting,...'. The dialog is divided into several sections:

- Phone:** Includes a 'Count' dropdown (1), 'I/F - 1 Type' (Serial COM), 'I/F - 2 Type' (N/A), 'IF Jig Type' (AnyWayJig), and a 'Use ID Check JIG' checkbox. A 'Port Setting' button is highlighted with a red box.
- MSTs Sharing Controller:** Includes a 'Count' dropdown (0), 'Control Type' (N/A), 'I/F Type' (Serial COM), and buttons for 'Terminal' and 'Port Setting'.
- Robot / ShieldBox:** Includes a 'Control Type' (N/A), 'I/F Type' (Serial COM), and a 'Port Setting' button.
- Power Supply:** Includes an 'I/F Type' (GPIO) and a 'Port Setting' button.
- DBMS:** Includes a 'Server' dropdown (HOME(GUMI)), 'Type' (Outside-Socket), and buttons for 'Port Setting'.
- Barcode Reader:** Includes a 'Type' (N/A), 'I/F Type' (Serial COM), and a 'Port Setting' button.
- MES PN Sender:** Includes a 'Type' (N/A) and a 'Port Setting' button.
- PBA F/T:** Includes buttons for 'Function Test Jig', 'NI-DAQ', 'Power Detector', and 'HDMI JIG', each with a 'Port Setting' button.
- SMD F/T:** Includes a 'Type' (N/A), 'B'd Address' (5), and a 'Port Setting' button.
- MSTs:** Includes a 'Count' dropdown (0), 'I/F Type' (GPIO), and a 'Port Setting' button.
- Buttons:** 'SAVE' and 'Cancel' buttons are at the bottom right.

## 6. Level 1 Repair

### 10. Select Port Number and SAVE

Set IO BUS Configuration

Phone IO Bus Setting

**Common**

BaudRate: 115200  
Data Bit: 8  
Parity: No  
Stop Bit: 1

No.	Port #1
1	1

SAVE

Cancel

### 11. Click OK to proceed

Set System Configuration

Set System Configuration Dialog...

**Test Process**

[Process]	[Master]	[Slave]
SMD F/T	<input type="checkbox"/>	<input type="checkbox"/>
PBA F/T	<input type="checkbox"/>	<input type="checkbox"/>
Calibration	<input type="checkbox"/>	<input type="checkbox"/>
Final Auto	<input type="checkbox"/>	<input type="checkbox"/>
Final Manual	<input type="checkbox"/>	<input type="checkbox"/>

**IMEI Process**

IMEI Write	<input checked="" type="checkbox"/>	<input type="checkbox"/>
IMEI Check	<input checked="" type="checkbox"/>	<input type="checkbox"/>
MDL +2nd Check	<input type="checkbox"/>	<input type="checkbox"/>
MDL Rework	<input type="checkbox"/>	<input type="checkbox"/>
IMEI Read	<input type="checkbox"/>	<input type="checkbox"/>

WLAN ☐  
Power Off-On before WLAN ☐  
Bluetooth ☐

**Test Condition**

Calibration  
Real CAL Cycle: on every 20 default CALs  
Calibration Mode: Dynamic

Final  
Supply RF Signal by: Conduction

Test Signal Mode: Signaling

Developer Mode ☐

**IMEI**

Use RFSM ☐  
Use Second PC ☐  
Save ODS ☐

IMEI SVC&Repair Option

**System Config.**

Language: English  
Line Name: LINE(temp)  
Line Type: Block Cell  
# of Phone: 1  
Start Number of Jig: 1  
IP Address: 10.244.114.62

**Operation Condition**

Operation Condition

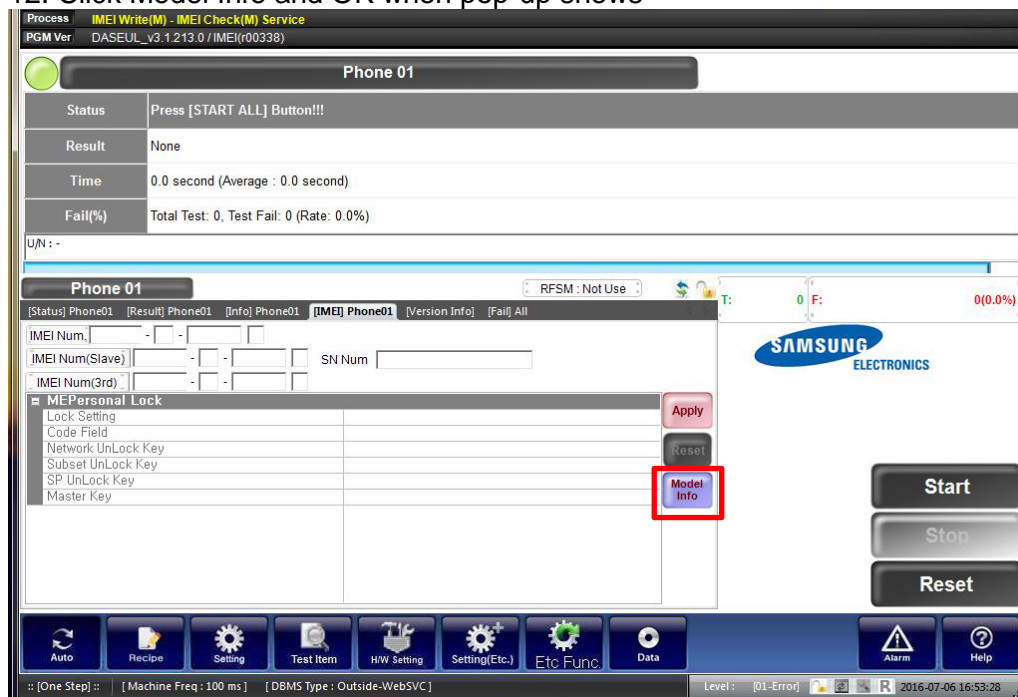
Model Information  
Hardware Config  
Signal Loss Config.  
Channel Config.  
UART Calibration  
Setting End Band

OK



## 6. Level 1 Repair

### 12. Click Model Info and OK when pop-up shows



### 13. Click OK

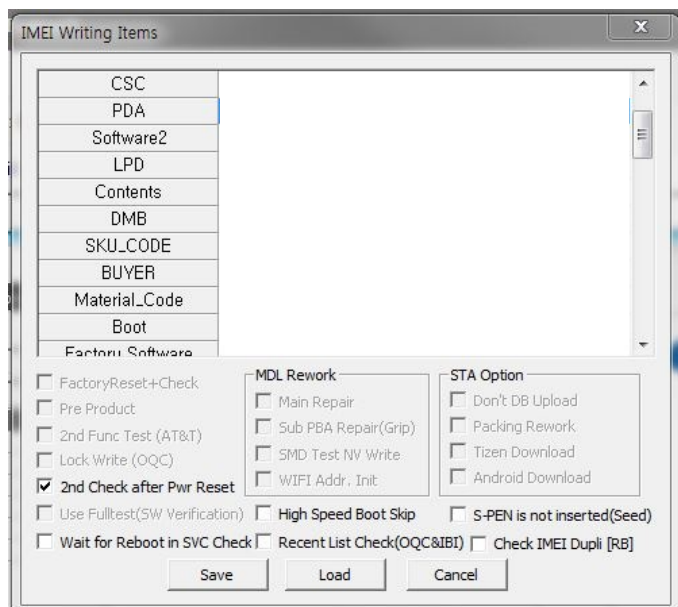




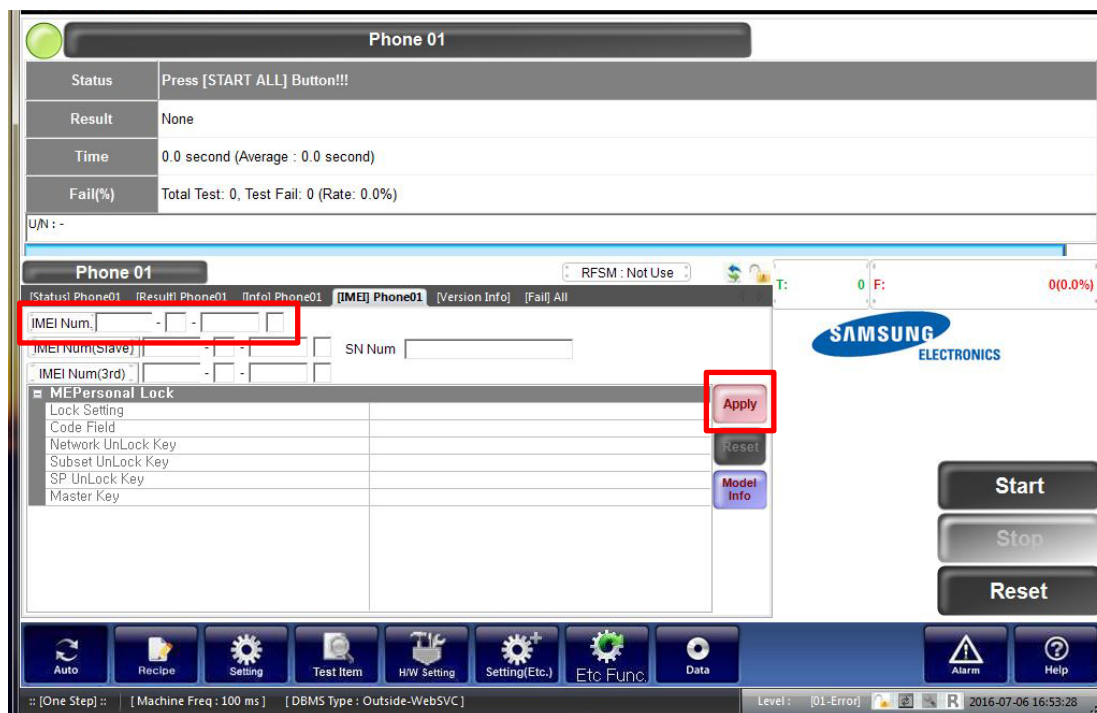
## 6. Level 1 Repair

14. Input SKU\_CODE and BUYER, then click Save button.

※ Refer to HHPsvc→IMEI Review to check SKU Code and buyer

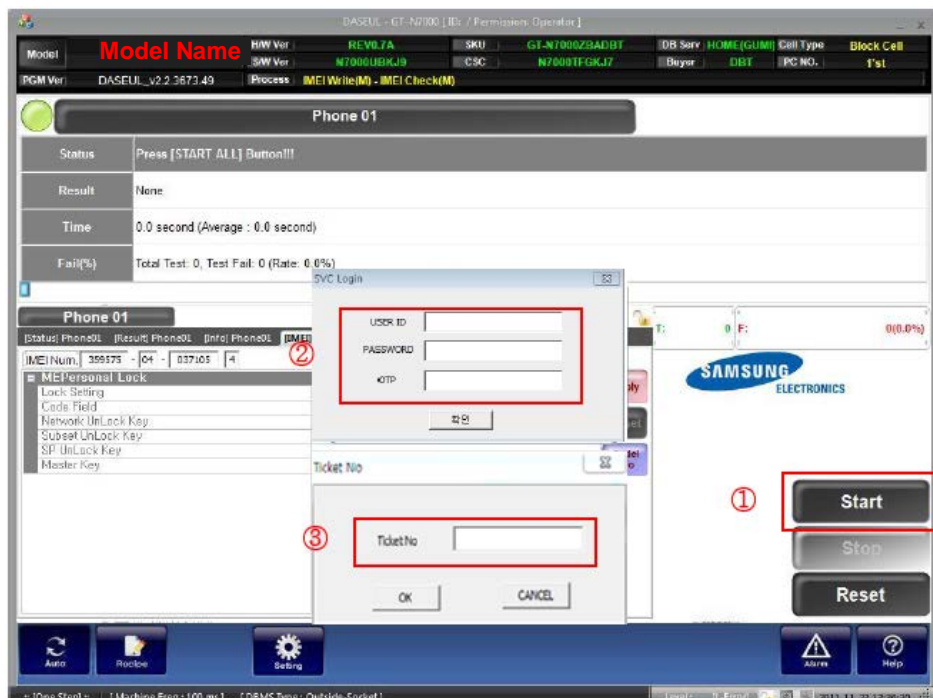


15. Input IMEI Number and click Apply



## 6. Level 1 Repair

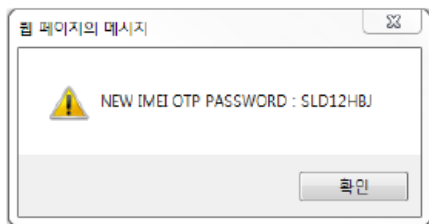
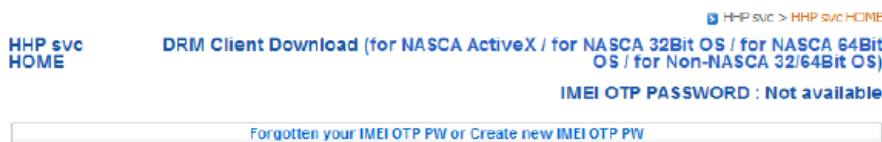
16. ① Click Start → ② Input IMEI writing ID and Password & OTP → ③ Input Ticket No



※ OTP(One time Password) : OTP is valid for 6 hours.

After that, you can get new OTP by click the “Forgotten your IMEI OTP PW or Create new IMEI OTP PW” button.

☞ OTP Location : GSPN → Knowledge → HHP svc → Home





---

## 6. Level 1 Repair

---

### 6-4. RF Calibration




#### 6-4-1. Required items in order to calibrate RF

- Installation program: RF Calibration Program
  - Daseul\_Launcher\_vx.x.xx.exe
  - Daseul\_CAL\_ALL\_Runtime\_x.x.xxx.x.CAB
  - Model File
- : **SM-xxxx\_OPEN\_CALIBRATION\_Ver\_x.x.xxx.x.CAB**

※ It is required to use the latest program.

- Mobile Phone
- R&S CMW500
- E3632A Power Supply
- GPIB Cable (2ea)
- JIG BOX (S103)
- Adapter
- UART Serial Cable
- IF Cable (GH81-11962R)

#### ❖ Table of test cables

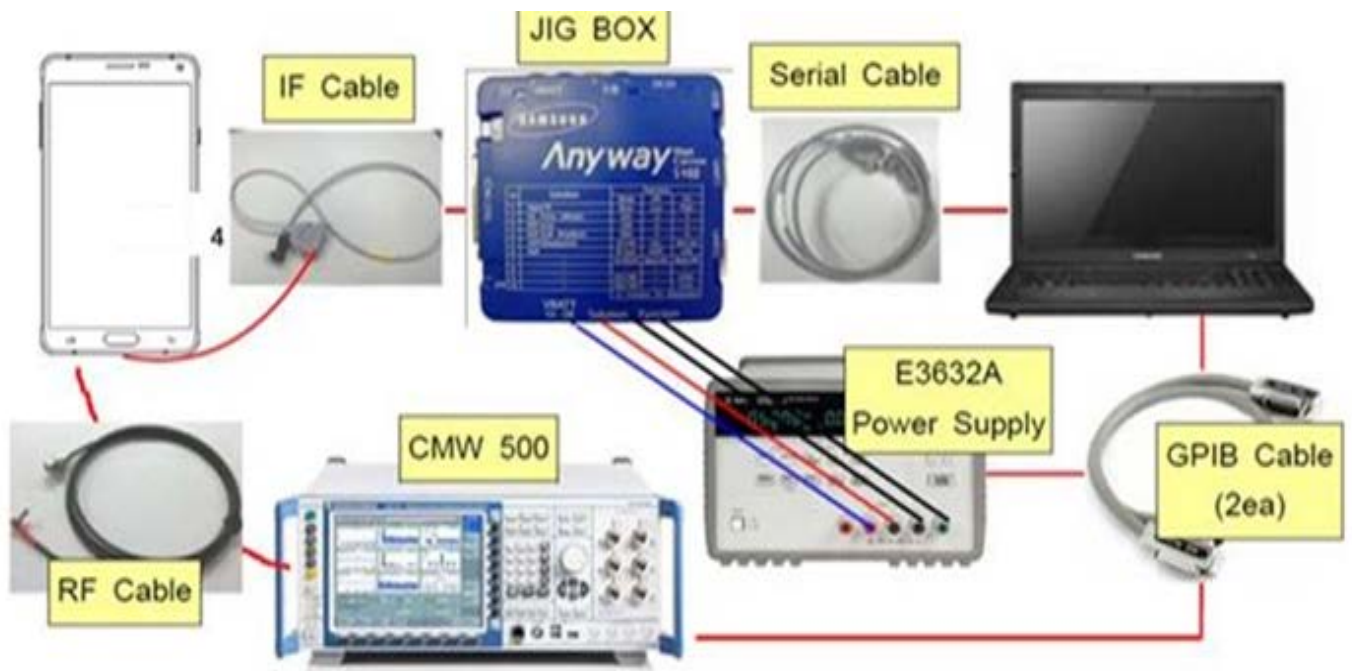
IF Cable	GH81-10631A	GH81-11962R	
	11 pin	7pin	
RF Cable (Manual)	GH81-11962V	GH81-11962G	GH81-11962D
	1.2T/102mm 	SMAP+SMAP/300mm 	1.25T/500mm 

---

## 6. Level 1 Repair

---

### ❖ Setting



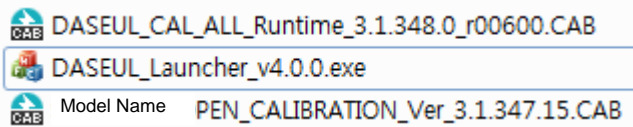
---

## 6. Level 1 Repair

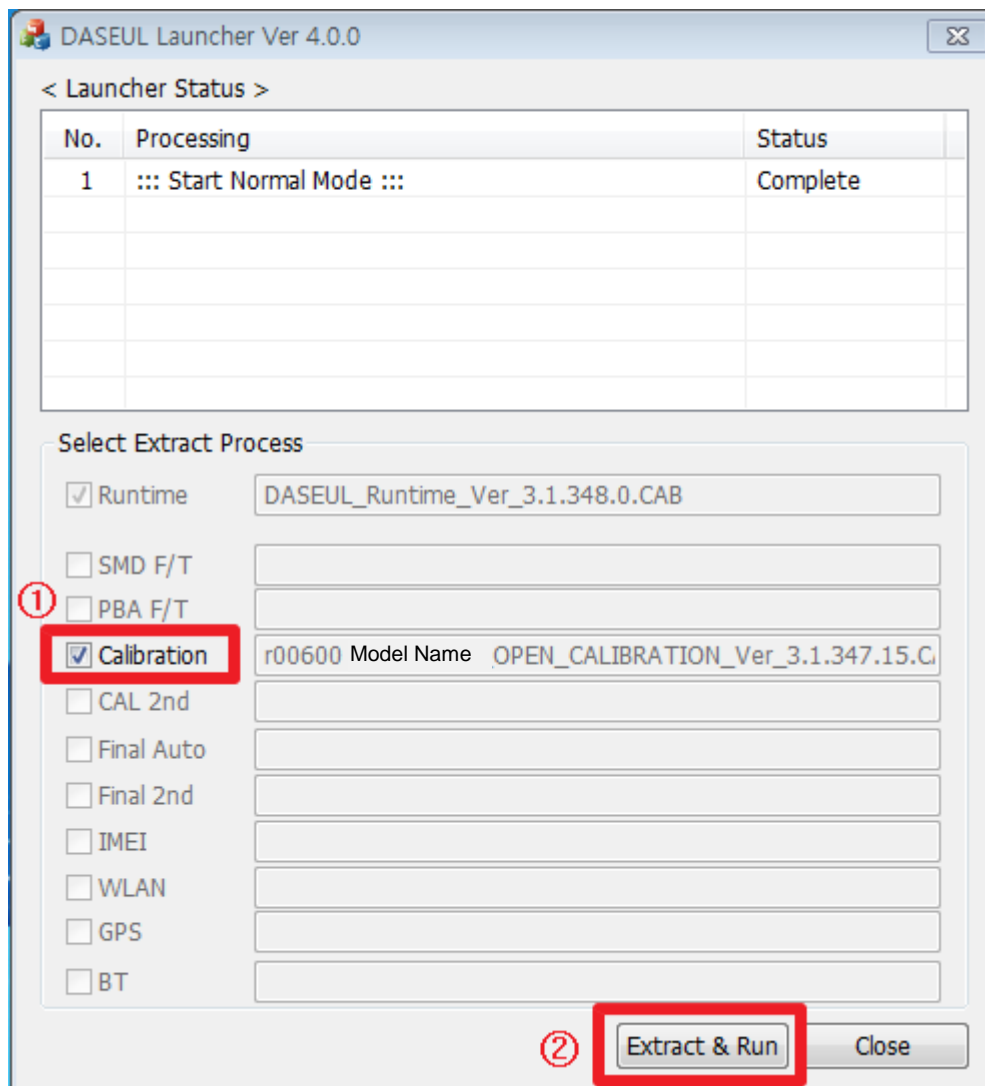
---

### 6-4-2. RF Calibration Program

1. Run the RF Calibration Program Launcher, 'DASEUL\_Launcher\_vx.x.xx.exe'.

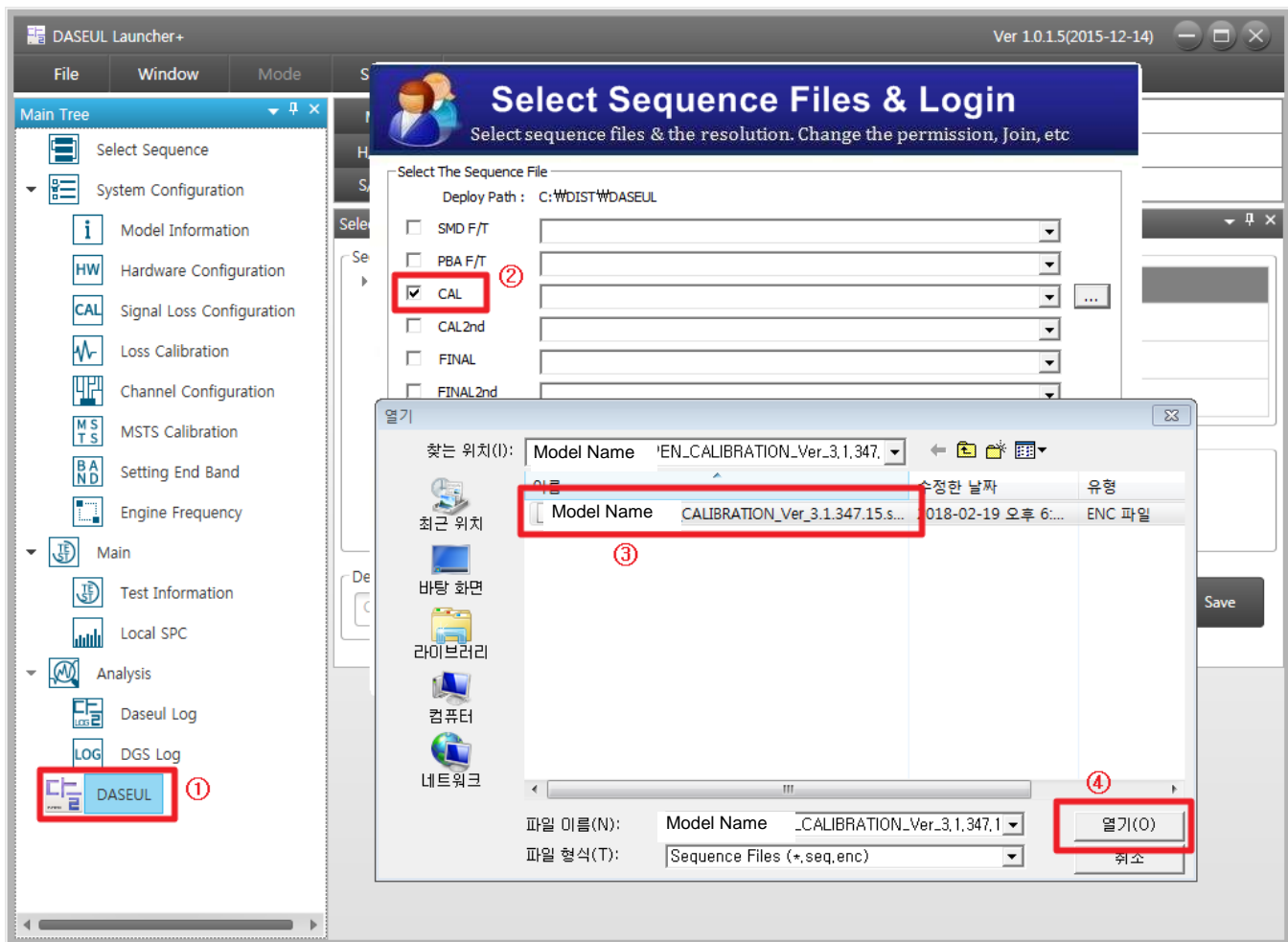


2. Check the 'Calibration' option and Click 'Extract & Run'.



## 6. Level 1 Repair

3. Check the 'CAL' and open the [model file](#), then select 'Start' button.





## 6. Level 1 Repair

4. Change the Line Type to 'Block Cell' and disable 'Smart Cloud Cell'.

**Set System Configuration**  
Set System Configuration Dialog...

**Test Process**

[Process]	[Master]	[Slave]
SMD F/T	<input type="checkbox"/>	<input type="checkbox"/>
PBA F/T	<input type="checkbox"/>	<input type="checkbox"/>
Calibration	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Calibration 2ND	<input type="checkbox"/>	<input type="checkbox"/>
Final Auto	<input type="checkbox"/>	<input type="checkbox"/>
Final Auto 2ND	<input type="checkbox"/>	<input type="checkbox"/>
Final Manual	<input type="checkbox"/>	<input type="checkbox"/>
IMEI Write	<input type="checkbox"/>	<input type="checkbox"/>
IMEI Check	<input type="checkbox"/>	<input type="checkbox"/>
MDL+2nd Check	<input type="checkbox"/>	<input type="checkbox"/>
MDL Rework	<input type="checkbox"/>	<input type="checkbox"/>
IMEI Read	<input type="checkbox"/>	<input type="checkbox"/>
STA Write	<input type="checkbox"/>	<input type="checkbox"/>
STA Check	<input type="checkbox"/>	<input type="checkbox"/>
STA Reset	<input type="checkbox"/>	<input type="checkbox"/>
WLAN	<input type="checkbox"/>	<input type="checkbox"/>
GPS	<input type="checkbox"/>	<input type="checkbox"/>
BT	<input type="checkbox"/>	<input type="checkbox"/>
WLAN	<input type="checkbox"/>	<input type="checkbox"/>
Power Off-On before WLAN	<input type="checkbox"/>	<input type="checkbox"/>
Bluetooth	<input type="checkbox"/>	<input type="checkbox"/>
LCIA	<input type="checkbox"/>	<input type="checkbox"/>
Merge 2G3G Block Rad.	<input type="checkbox"/>	<input type="checkbox"/>

**Test Condition**

Calibration  
Real CAL Cycle: on every 20 default CALs  
Calibration Mode : FDT  
CAL2nd Mode : FDT

Final  
Supply RF Signal by Conduction

**Reset Loss Correction Count**

Test Mode : Signaling

WLAN  
Test Mode : WLAN

IMEI  
Use RFSM  
Use Second PC  
Save ODS  
Merge Felica Cal  
OQC Reset  
IBI Reset  
OQC SKD USER D/L

**System Config.**

Language: Korean  
Line Name: LINE(temp)  
**Line Type: Block Cell**  
☐ NP Cell ☐ Smart Cloud Cell  
# of Phone: 1  
Start Number of UI: 1  
Start Number of Jig: 1  
IP Address: 10.60.157.50  
SKD Mode  
MultiSharing(CMWS)  
Developer Mode  
Advanced Separating(ADS)  
SubpartsLife

**Operation Condition**  
**Operation Condition** **RUN SeeLog**

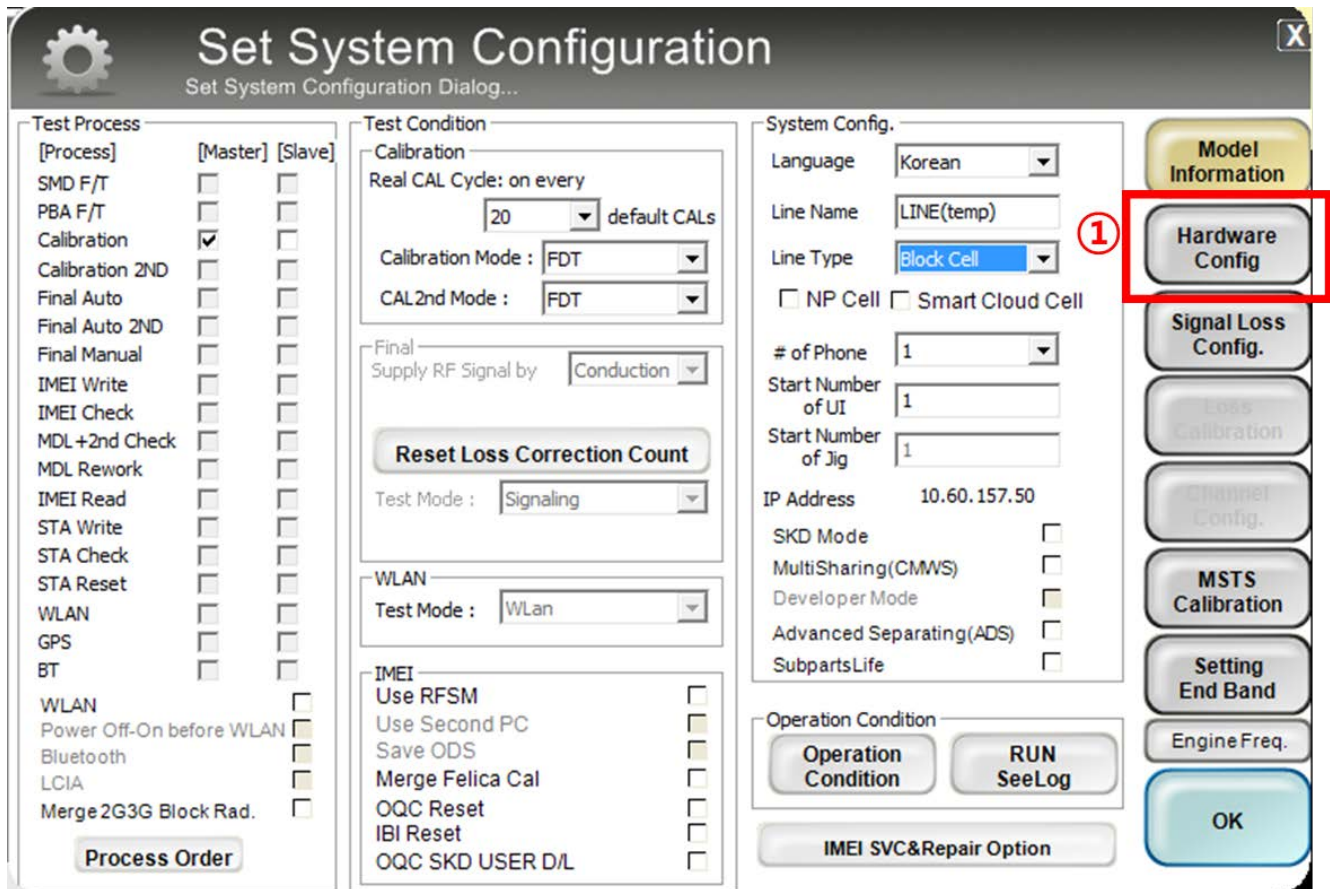
**IMEI SVC&Repair Option**

**Model Information**  
**Hardware Config**  
**Signal Loss Config.**  
**Loss Calibration**  
**Channel Config.**  
**MSTS Calibration**  
**Setting End Band**  
**Engine Freq.**  
**OK**

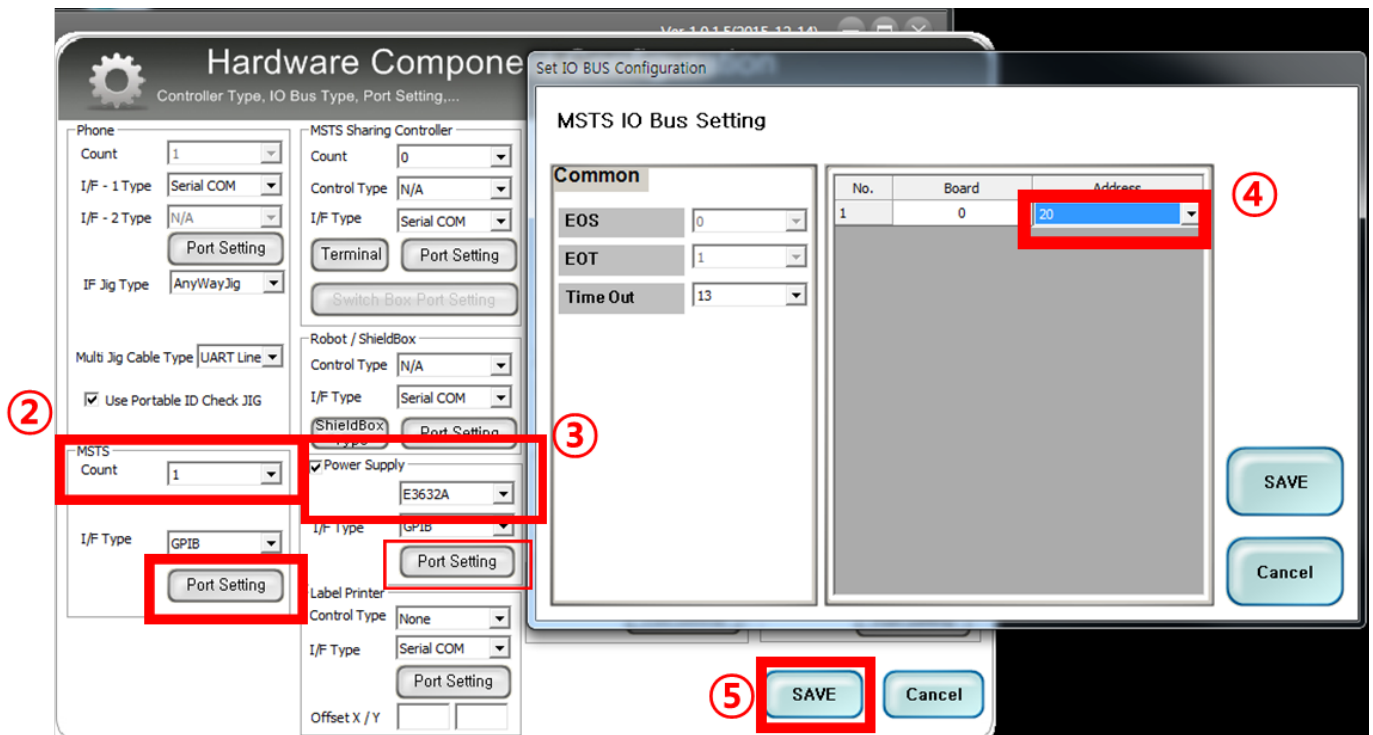


## 6. Level 1 Repair

5. Set the GPIB address of MSTS(CMW500) and Power Supply(E3632A) to enter 'Hardware Config' and 'Save'. (Check the GPIB address of equipments in advance)



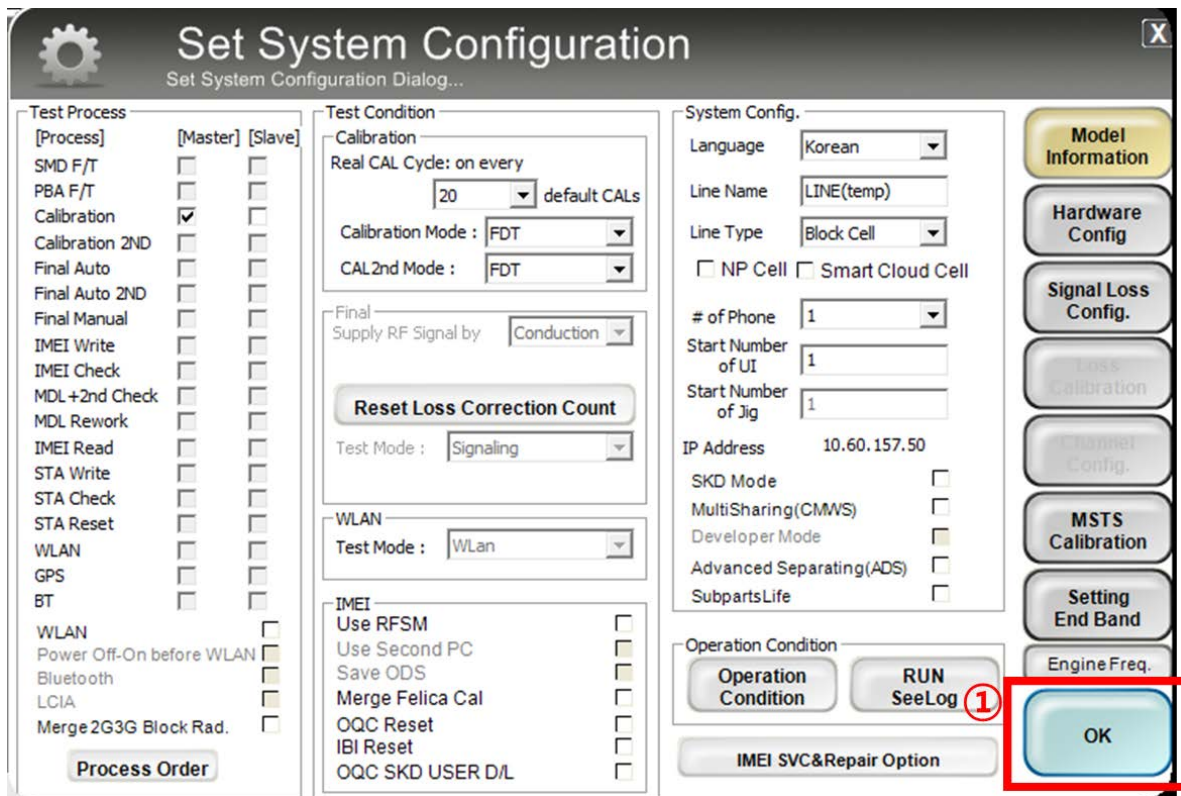
The 'Set System Configuration' dialog box is shown. It has several tabs: 'Test Process', 'Test Condition', 'System Config.', and 'Model Information'. The 'Model Information' tab is selected, and the 'Hardware Config' button is highlighted with a red box and a red circle with the number 1. Other buttons in the 'Model Information' tab include 'Signal Loss Config.', 'Loss Calibration', 'Channel Config.', 'MSTS Calibration', 'Setting End Band', 'Engine Freq.', and 'OK'.



The 'Hardware Component' dialog box is shown, with the 'MSTS IO Bus Setting' sub-dialog box open. The 'MSTS IO Bus Setting' dialog box has a 'Common' tab and a table for 'MSTS IO Bus Setting'. The 'Common' tab is selected, and the 'EOS' field is set to 0, 'EOT' to 1, and 'Time Out' to 13. The 'MSTS IO Bus Setting' table has columns for 'No.', 'Board', and 'Address'. The first row has 'No.' 1, 'Board' 0, and 'Address' 20. The 'Address' field is highlighted with a red box and a red circle with the number 4. The 'SAVE' button is highlighted with a red box and a red circle with the number 5. The 'Hardware Component' dialog box has several fields for 'Phone', 'MSTS Sharing Controller', 'Robot / ShieldBox', and 'Label Printer'. The 'MSTS Count' field is set to 1, and the 'I/F Type' is set to 'GPIB'. The 'Port Setting' button is highlighted with a red box and a red circle with the number 3. The 'MSTS Count' field is highlighted with a red box and a red circle with the number 2.

## 6. Level 1 Repair

6. Press 'OK' to start RF Calibration after completing all settings.



The 'Set System Configuration' dialog box is shown with various settings. The 'Test Process' tab is active, showing a list of test items. The 'Test Condition' tab is also visible, showing settings for Calibration, WLAN, and IMEI. The 'System Config.' tab is visible, showing settings for Language, Line Name, Line Type, and IP Address. The 'Model Information' tab is visible, showing settings for Model Name, H/W Ver, and SW Ver. The 'OK' button is highlighted with a red box and a red circle with the number 1.

**Test Process**

[Process]	[Master]	[Slave]
SMD F/T	<input type="checkbox"/>	<input type="checkbox"/>
PBA F/T	<input type="checkbox"/>	<input type="checkbox"/>
Calibration	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Calibration 2ND	<input type="checkbox"/>	<input type="checkbox"/>
Final Auto	<input type="checkbox"/>	<input type="checkbox"/>
Final Auto 2ND	<input type="checkbox"/>	<input type="checkbox"/>
Final Manual	<input type="checkbox"/>	<input type="checkbox"/>
IMEI Write	<input type="checkbox"/>	<input type="checkbox"/>
IMEI Check	<input type="checkbox"/>	<input type="checkbox"/>
MDL+2nd Check	<input type="checkbox"/>	<input type="checkbox"/>
MDL Rework	<input type="checkbox"/>	<input type="checkbox"/>
IMEI Read	<input type="checkbox"/>	<input type="checkbox"/>
STA Write	<input type="checkbox"/>	<input type="checkbox"/>
STA Check	<input type="checkbox"/>	<input type="checkbox"/>
STA Reset	<input type="checkbox"/>	<input type="checkbox"/>
WLAN	<input type="checkbox"/>	<input type="checkbox"/>
GPS	<input type="checkbox"/>	<input type="checkbox"/>
BT	<input type="checkbox"/>	<input type="checkbox"/>
WLAN	<input type="checkbox"/>	<input type="checkbox"/>
Power Off-On before WLAN	<input type="checkbox"/>	<input type="checkbox"/>
Bluetooth	<input type="checkbox"/>	<input type="checkbox"/>
LCIA	<input type="checkbox"/>	<input type="checkbox"/>
Merge 2G3G Block Rad.	<input type="checkbox"/>	<input type="checkbox"/>

**Test Condition**

Calibration  
Real CAL Cycle: on every 20 default CALs  
Calibration Mode : FDT  
CAL2nd Mode : FDT  
Final Supply RF Signal by : Conduction  
Reset Loss Correction Count  
Test Mode : Signaling  
WLAN  
Test Mode : WLAN  
IMEI  
Use RFSM  
Use Second PC  
Save ODS  
Merge Felica Cal  
OQC Reset  
IBI Reset  
OQC SKD USER D/L

**System Config.**

Language : Korean  
Line Name : LINE(temp)  
Line Type : Block Cell  
☐ NP Cell ☐ Smart Cloud Cell  
# of Phone : 1  
Start Number of UI : 1  
Start Number of Jig : 1  
IP Address : 10.60.157.50  
SKD Mode  
MultiSharing(CMWS)  
Developer Mode  
Advanced Separating(ADS)  
SubpartsLife

**Operation Condition**

Operation Condition RUN SeeLog 1 OK

**Model Information**

Model Name H/W Ver MP 0.900 SKU xx IDB Serv HOME(GUMI) Cell Type Block Cell  
SW Ver None CSC 1 Buyer XX PC NO. NONE

**Process**

Calibration(M)  
PGM Ver DASEUL\_v3.1.348.0 / Calibration(r00600)

**Phone 01**

CUR CHK Path Loss Measure Mode

Status Press [START ALL] Button!!!  
Result None  
Time 0.0 second (Average : 0.0 second)  
Fail(%) Total Test: 0, Test Fail: 0 (Rate: 0.0%)  
U/N : - ZBCR : -

**Phone 01**

[Status] Phone01 [Result] Phone01 [Info] Phone01 [Version Info] [Fail] All

Time	No.	Item	Status
15:49:17	01	SetTestNV	SetTestNV Init Complete
15:49:17	01	EndCalibration	EndCalibration Init
15:49:17	01	CMC_CAL_STA...	CMC_CAL_START_V2 Init Complete
15:49:17	01	FactoryTestLog....	FactoryTestLog_Enable Init Complete
15:49:17	01	GetTestNV	GetTestNV Init Complete
15:49:18	01	RTCWrite	RTC Write Init Complete
15:49:18	01	SetTestNV	SetTestNV Init Complete
15:49:18	01	EndCalibration	EndCalibration Init
15:49:18	01	UnitTestStep	UnitTestStep MSTs Init Start
15:49:18	01	UnitTestStep	JIG Open IOBus
15:49:18	01	UnitTestStep	Set JIG Solution
15:49:19	01	UnitTestStep	Get Reference Current
15:49:25	01	UnitTestStep	RefCurrent[1] = -0.13322[mA]
15:49:25	01	UnitTestStep	Reference Current = -0.1
15:49:25	01	UnitTestStep	Get MSTs License
15:49:25	01	UnitTestStep	MSTs License Info
15:49:25	01	UnitTestStep	Get MSTs Reset
15:49:25	01	UnitTestStep	Initial Step End, TEST READY!
15:49:25	01	UnitTestStep	Press [START ALL] Button!!!

**SAMSUNG ELECTRONICS**

Start Stop Reset

Auto Recipe Setting Test Item H/W Setting Setting(Etc.) Etc Func. Data Alarm Help

Level : [01-Error] 2018-02-21 15:49:43

---

## 7. Level 2 Repair

---

### 7-1. Components on the Rear Case





## 7. Level 2 Repair

### 7-2. Pre-requisite



	
<b>Tweezers / Disass'y Stick / Screw Driver</b>	<b>Anti-static Gloves</b>
	
<b>Anti-static Mat</b>	<b>Hot Plate</b>
	
<b>A OCTA Disassembly Holder</b>	<b>OCTA Disassembly Upper</b>
	
<b>Ethyl Alcohol</b>	<b>Cotton Swab</b>

---

## 7. Level 2 Repair

---

### 7-3. Parts which must be changed after repair

BOM description & part code	Image	Remarks
<b>A/S-TAPE MAIN WINDOW</b> <b>[GH81-16187A]</b>	 A photograph of a rectangular, dark-colored main window tape with a small notch at the top left corner.	Replace for OCTA repair
<b>A/S-TAPE LCD GASKET SIDE</b> <b>[GH81-16209A]</b>	 A photograph of a rectangular, blue-colored LCD gasket side tape with a small notch at the bottom center.	

## 7. Level 2 Repair

### 7-4. Disassembly

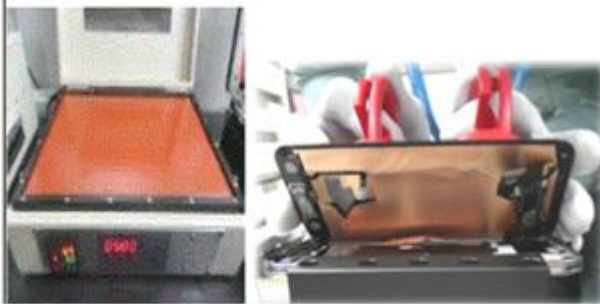
1

1) Put the device on hot plate as following below heating condition and detach OCTA.

- SOC 68%↓: 70°C/10~20 minute

- SOC 68%↑: 70°C/10~20 minute

※ Please confirm the heating condition released lastly, and follow it.



2

Detach the LCD assembly.



※ Caution

1) Be care of scratch

※ Caution

1) Be care of scratch

3

Unscrew 18 Point and disassemble SIM Tray from device.



4

Disassemble Rear.



※ Caution



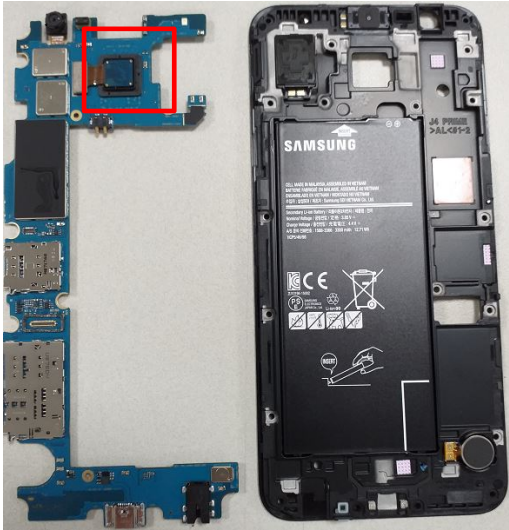

1) Be care of Rear damage

※ Caution

1) Be care of scratch

2) Be care of Rear and connector damage

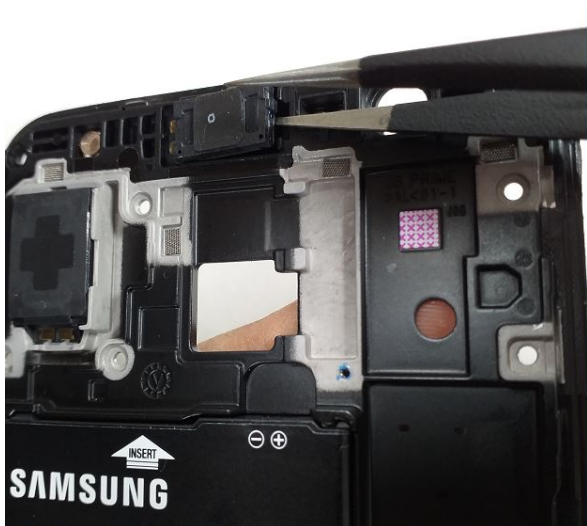
7. Level 2 Repair

<div data-bbox="108 226 778 293"><div>5</div><div>Unscrew PBA 2points.</div></div> <div data-bbox="308 315 580 875"></div>	<div data-bbox="807 226 1477 293"><div>6</div><div>Disassemble Front CAM connector of PBA.</div></div> <div data-bbox="970 322 1232 869"></div>
<div>※ Caution</div> <div>1) Be careful not to damage the PBA</div>	<div>※ Caution</div> <div>1) Be careful not to damage the PBA</div>
<div data-bbox="108 994 778 1061"><div>7</div><div>Detach other components.</div></div> <div data-bbox="189 1126 700 1653"></div>	<div data-bbox="807 994 1477 1061"><div>8</div><div>Detach SPK from Front Ass'y.</div></div> <div data-bbox="925 1126 1366 1592"></div>
<div>※ Caution</div> <div>1) Be care of several kinds of damage</div>	<div>※ Caution</div> <div>1) Be careful not to damage the SPK.</div>

## 7. Level 2 Repair

9

Detach RCV from Front Ass'y.



※ Caution

- 1) Be careful not to damage the RCV.

10

Detach Motor from Front Ass'y.



※ Caution

- 1) Be careful not to damage the Motor.



## 7. Level 2 Repair

### 7-5. Assembly

1

Attach SPK on Front Ass'y.



※ Caution

1) Be care of SPK damage.

2

Attach RCV on Front Ass'y.



※ Caution

1) Be care of RCV damage.

3

Attach Motor on Front Ass'y.

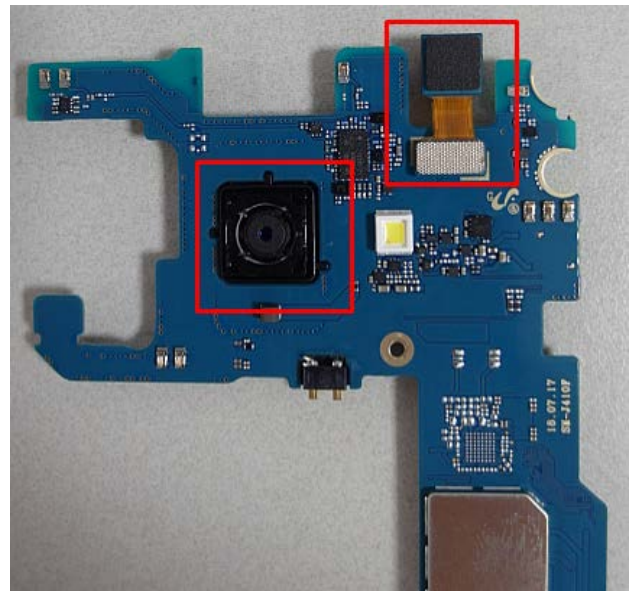


※ Caution

1) Be care of Motor damage.

4

Attach Front CAM, MAIN CAM on PBA.



※ Caution

1) Be care of PBA damage

## 7. Level 2 Repair

5

Assemble PBA to Front case and tightened 2 points of PBA screw.  
\* Torque Value :  $1.0 \pm 0.1 \text{ kgfcm}$



※ Caution

- 1) Be care of scratch and REAR damage
- 2) Check for contact damage.(red area)

6

Assemble the REAR in sequence.  
(1.Bottom 2. Top)



※ Caution

- 1) Be care of scratch and REAR damage
- 2) Check for contact damage.(red area)

7

Screw insertion 18 Point.  
\* Torque Value :  $1.3 \pm 0.1 \text{ kgfcm}$



Caution

- 1) Be care of Rear damage

8

Assemble rework tape on OCTA.



※ Caution

- 1) Be care of Tape damage

## 7. Level 2 Repair

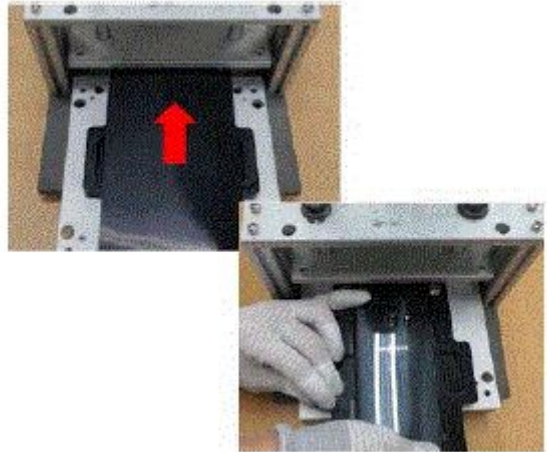
9

Assemble OCTA with LCD cap insertion.



10

Press OCTA after it has assembled.  
- Press spec : Force 1N, Time : 60 seconds



※ Caution

1) Be care of LCD Connector damage.

※ Caution

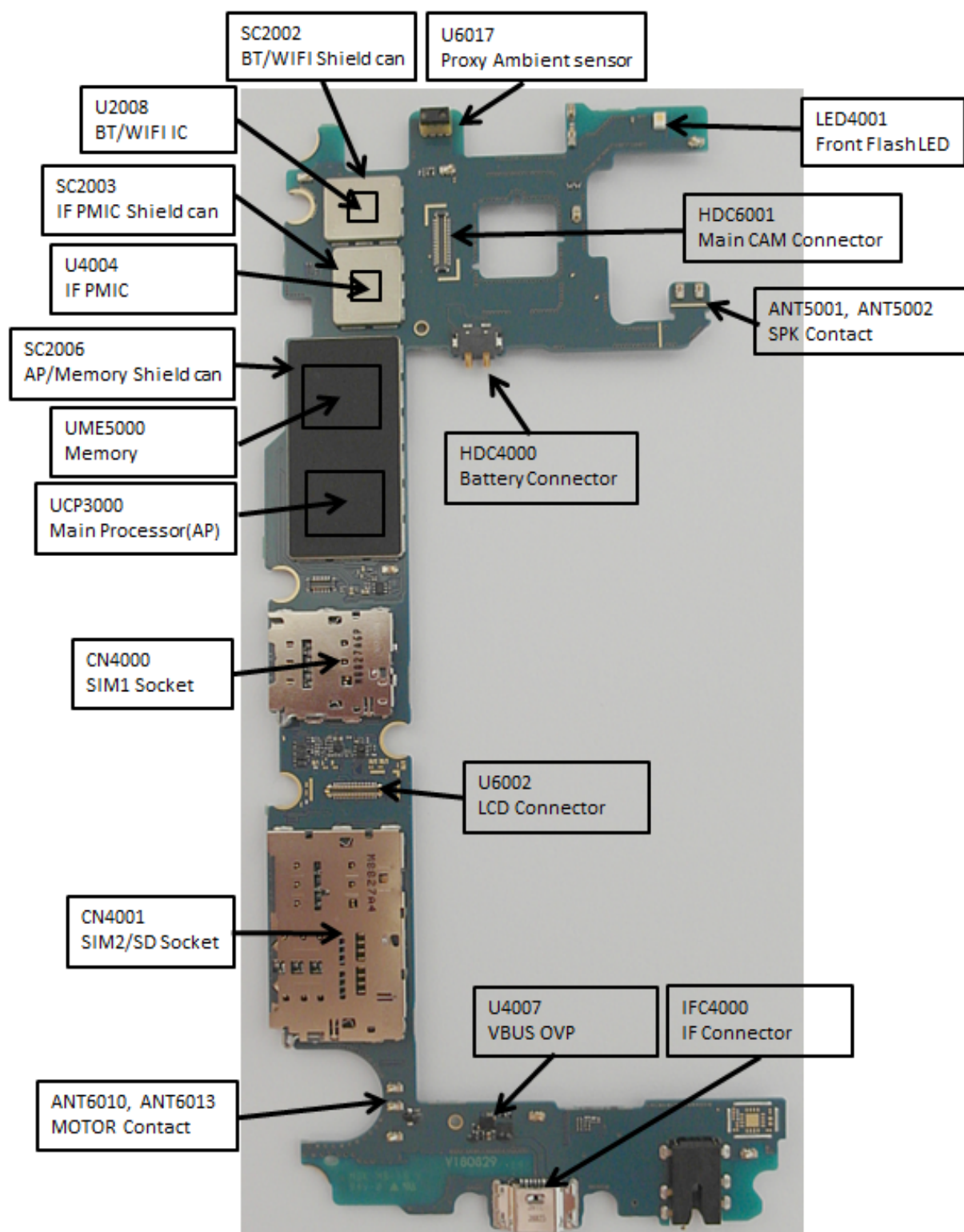


---

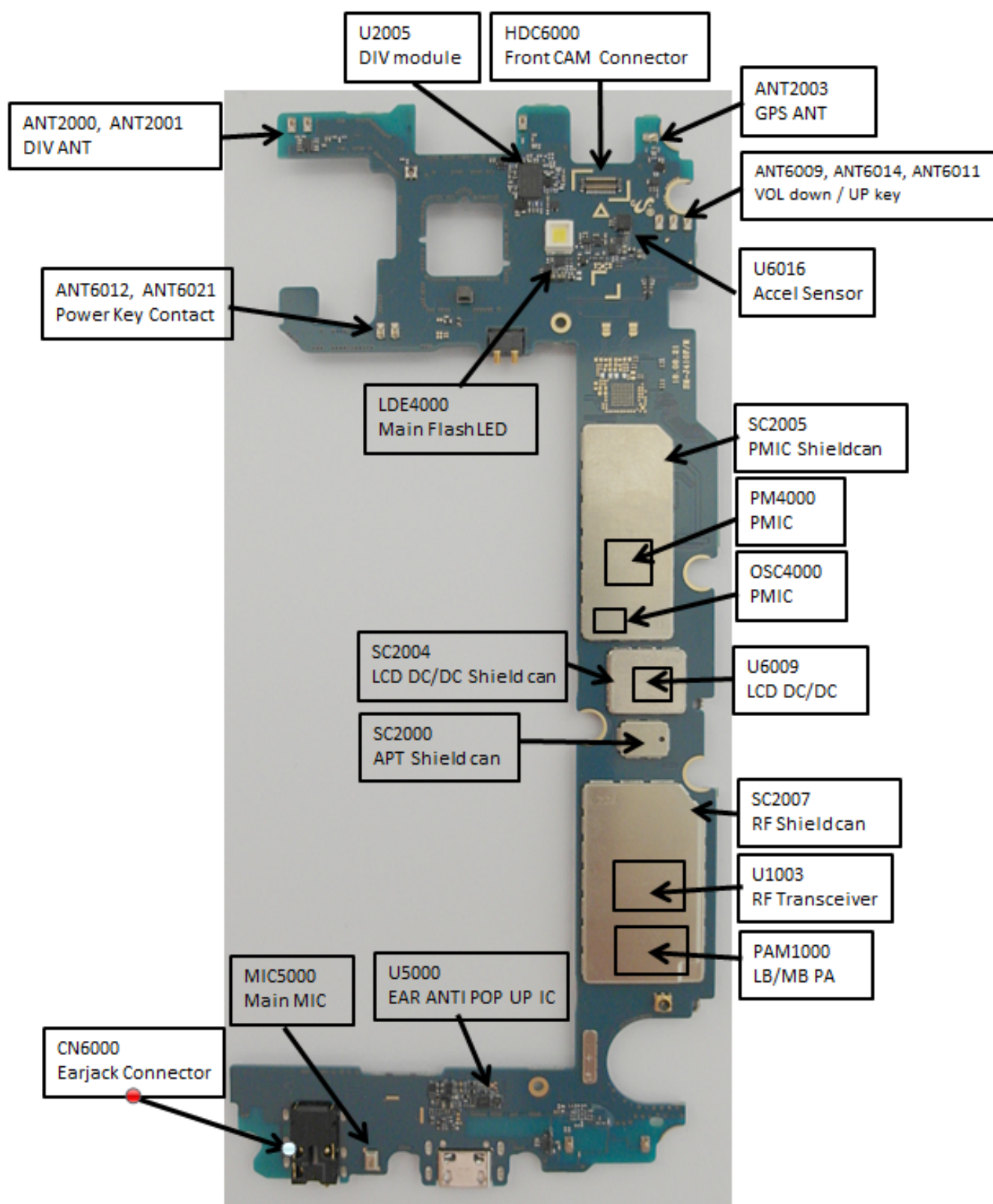
## 8. Level 3 Repair

---

### 8-1. Components Layout



## 8. Level 3 Repair

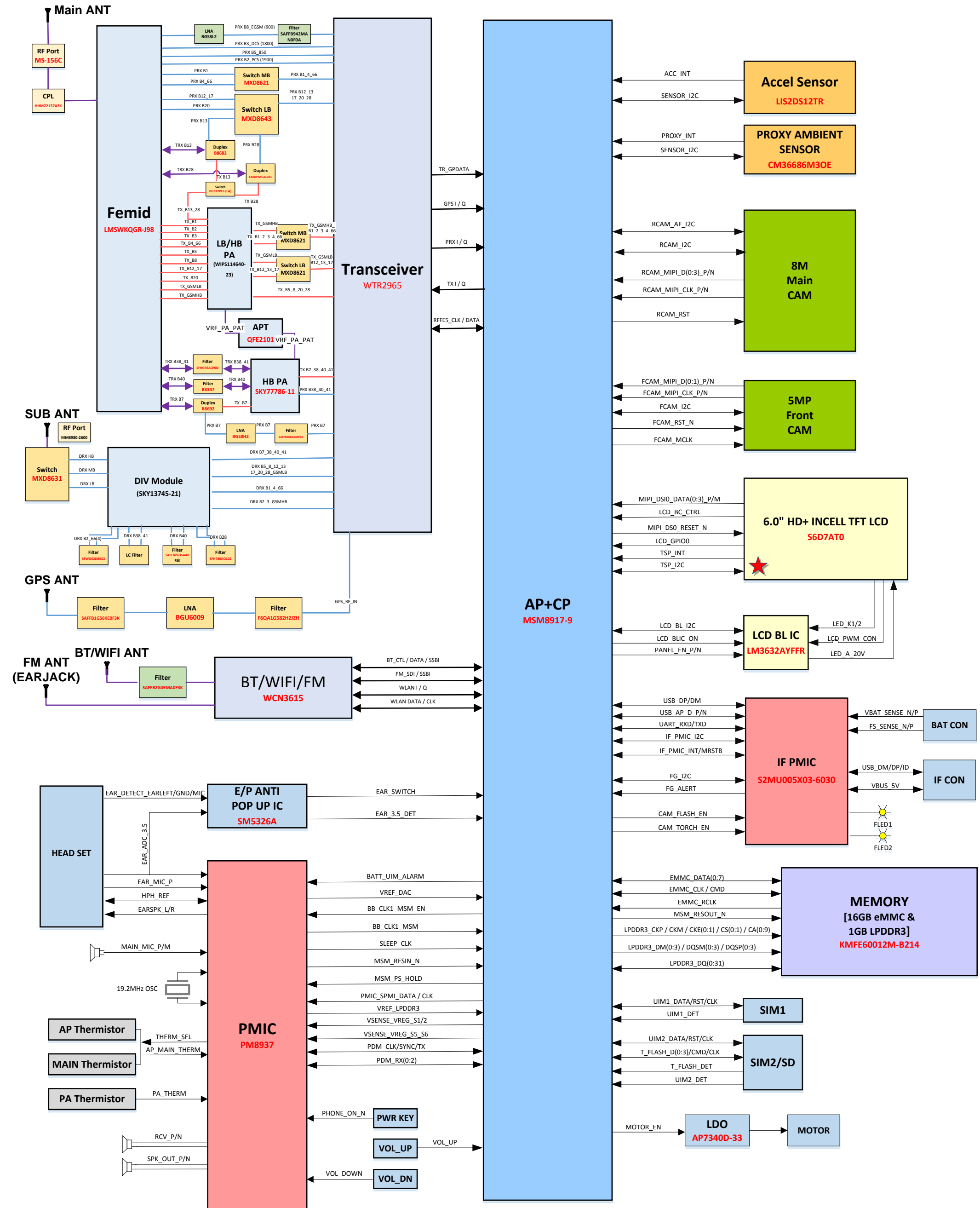


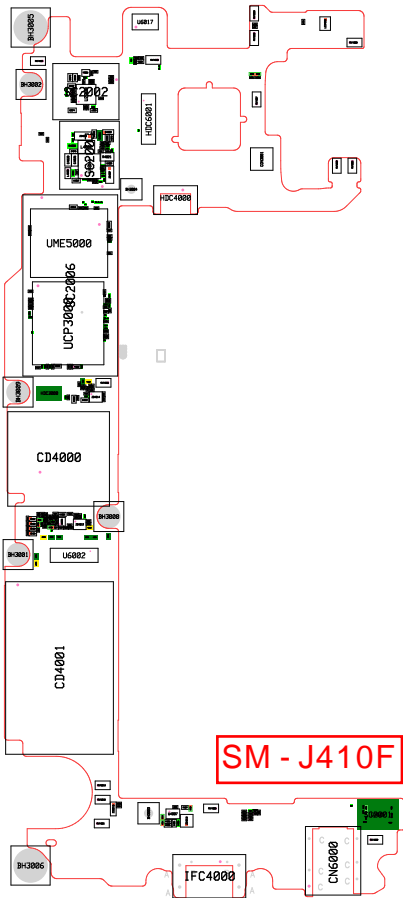
## SM-J410x Block Diagram

Date : 2018.09.18  
H/W REV : 0.2B

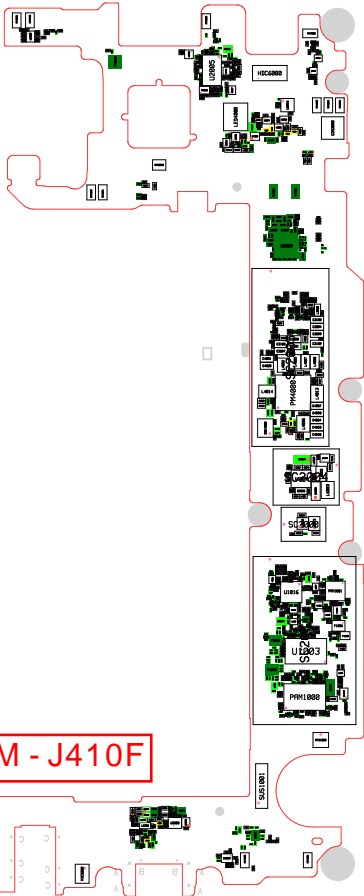
SM - J410F/G  
Common

SM - J410F/G  
Common

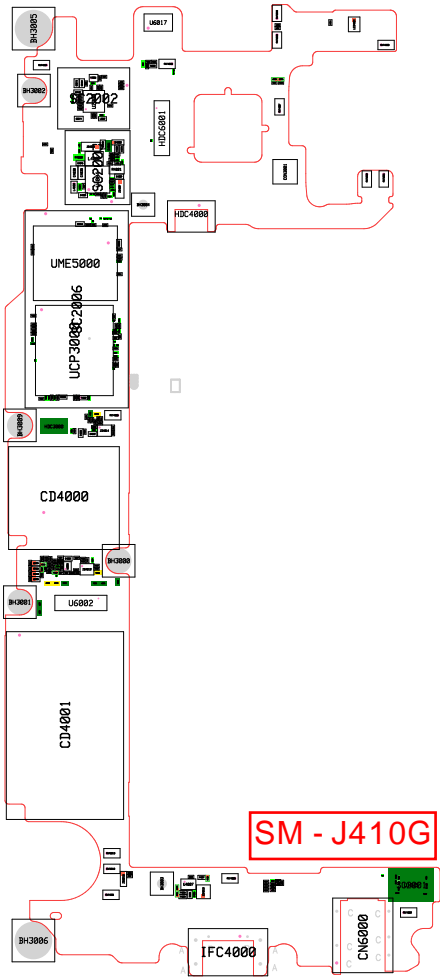




SM - J410F



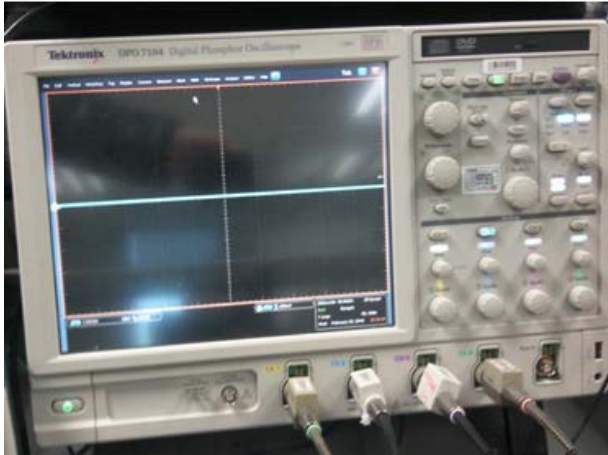






## 8. Level 3 Repair

### 8-3. Flow chart of Troubleshooting.



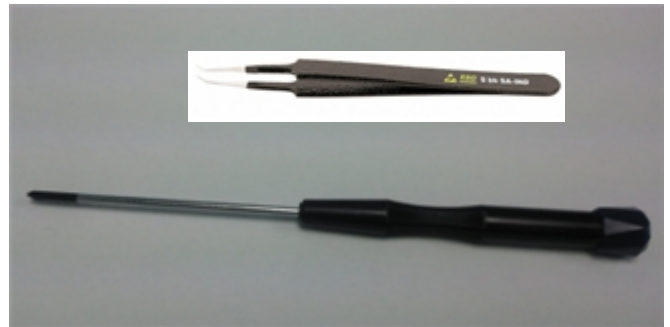
**Oscilloscope**



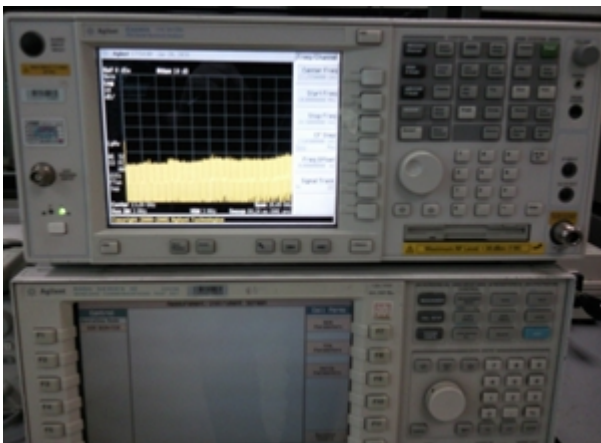
**Digital Multimeter**



**Power Supply**



**+ driver, ESD Safe Tweezer**



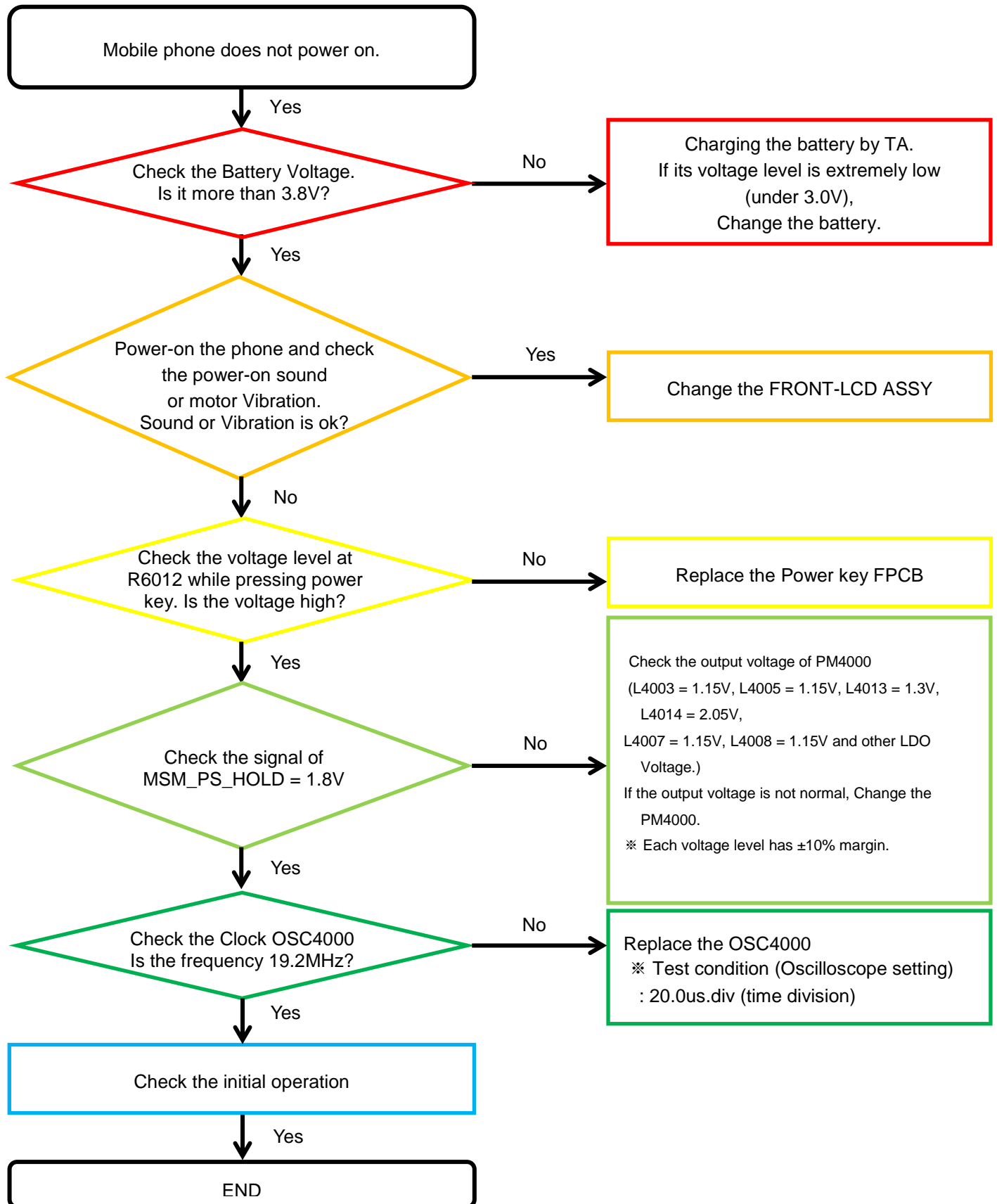
**8960 & Spectrum Analyzer**



**Soldering iron**

## 8. Level 3 Repair

### 8-4-1. Power On

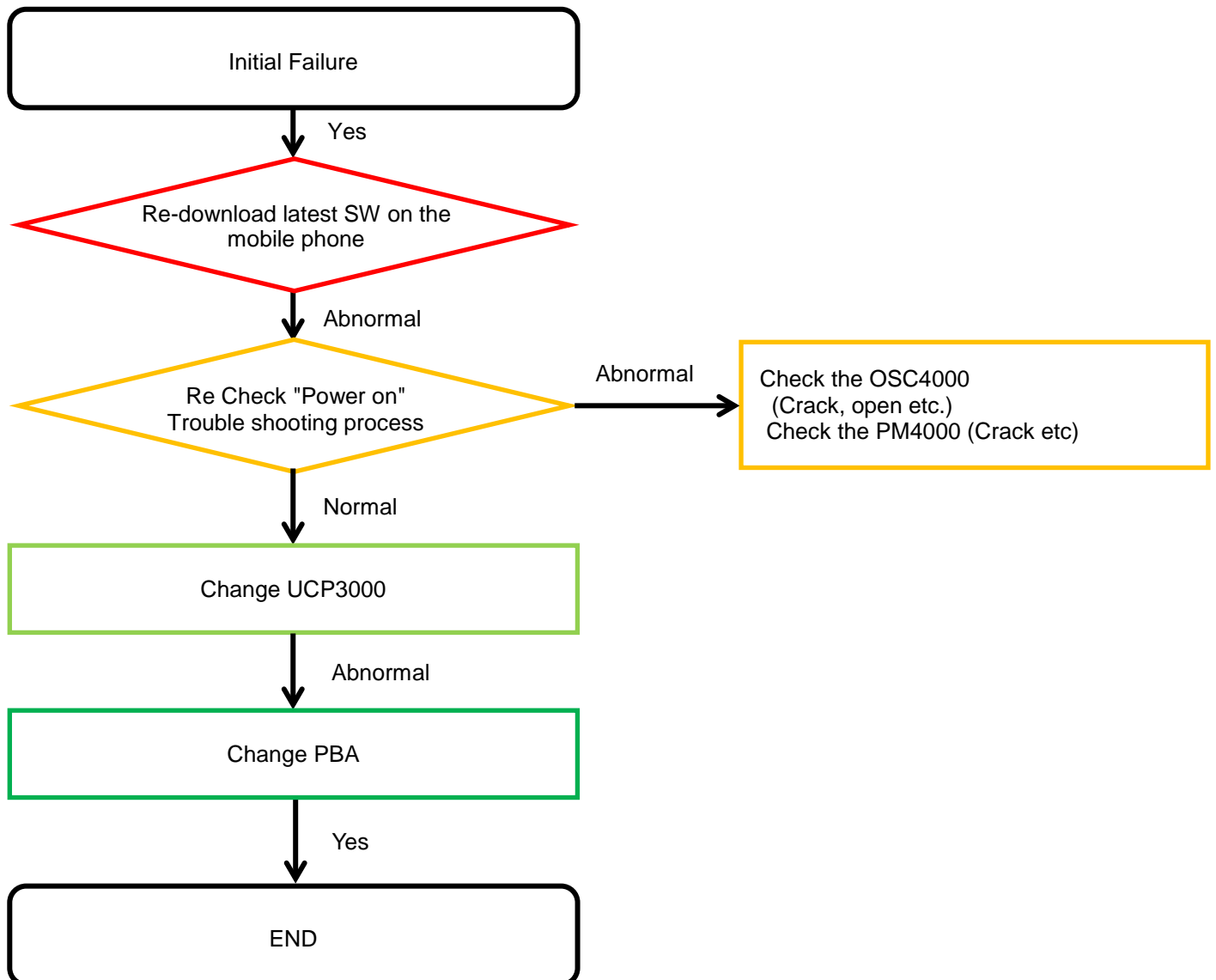


---

## 8. Level 3 Repair

---

### 8-4-2. Initial

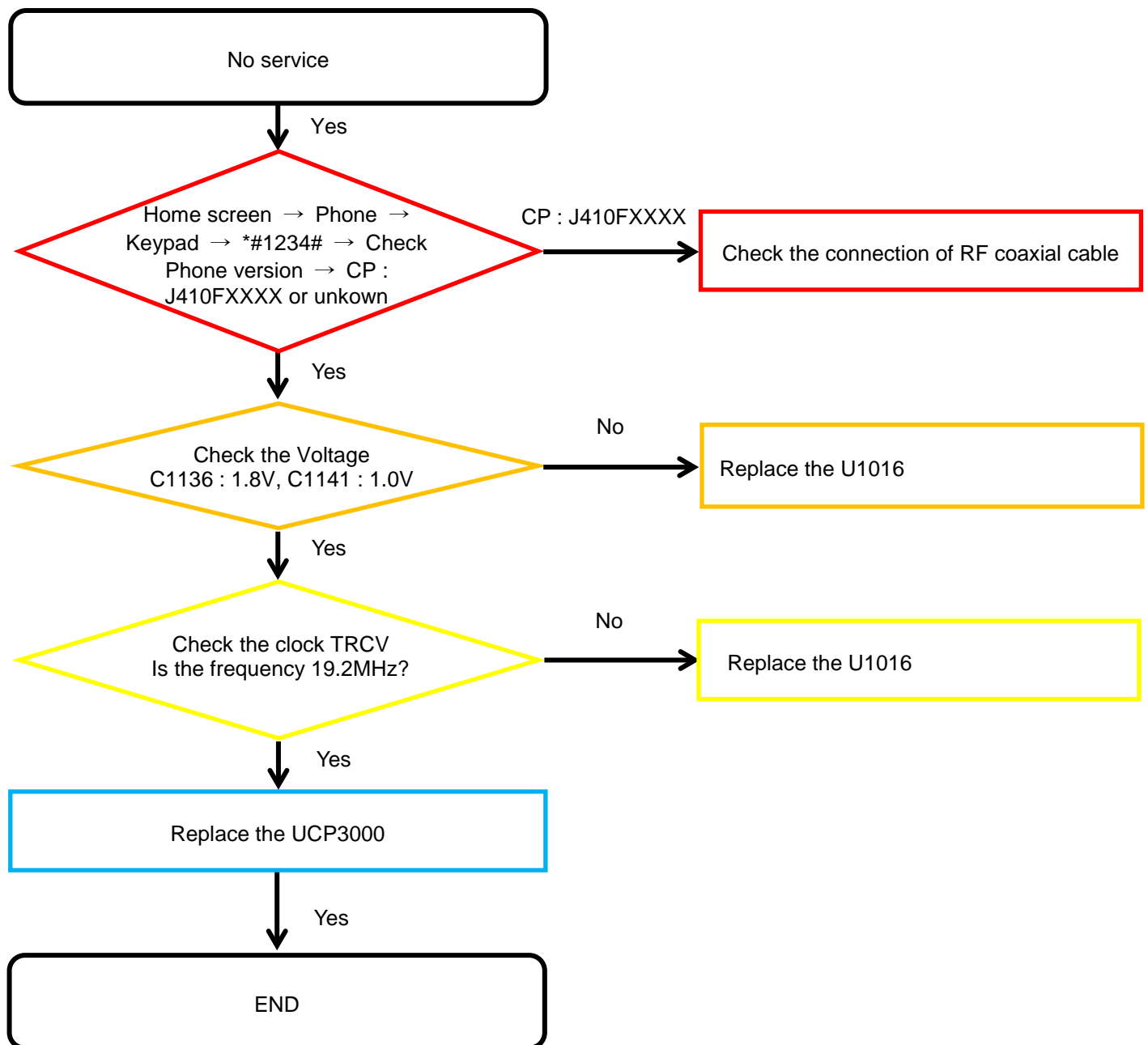


---

## 8. Level 3 Repair

---

### 8-4-3. No Service

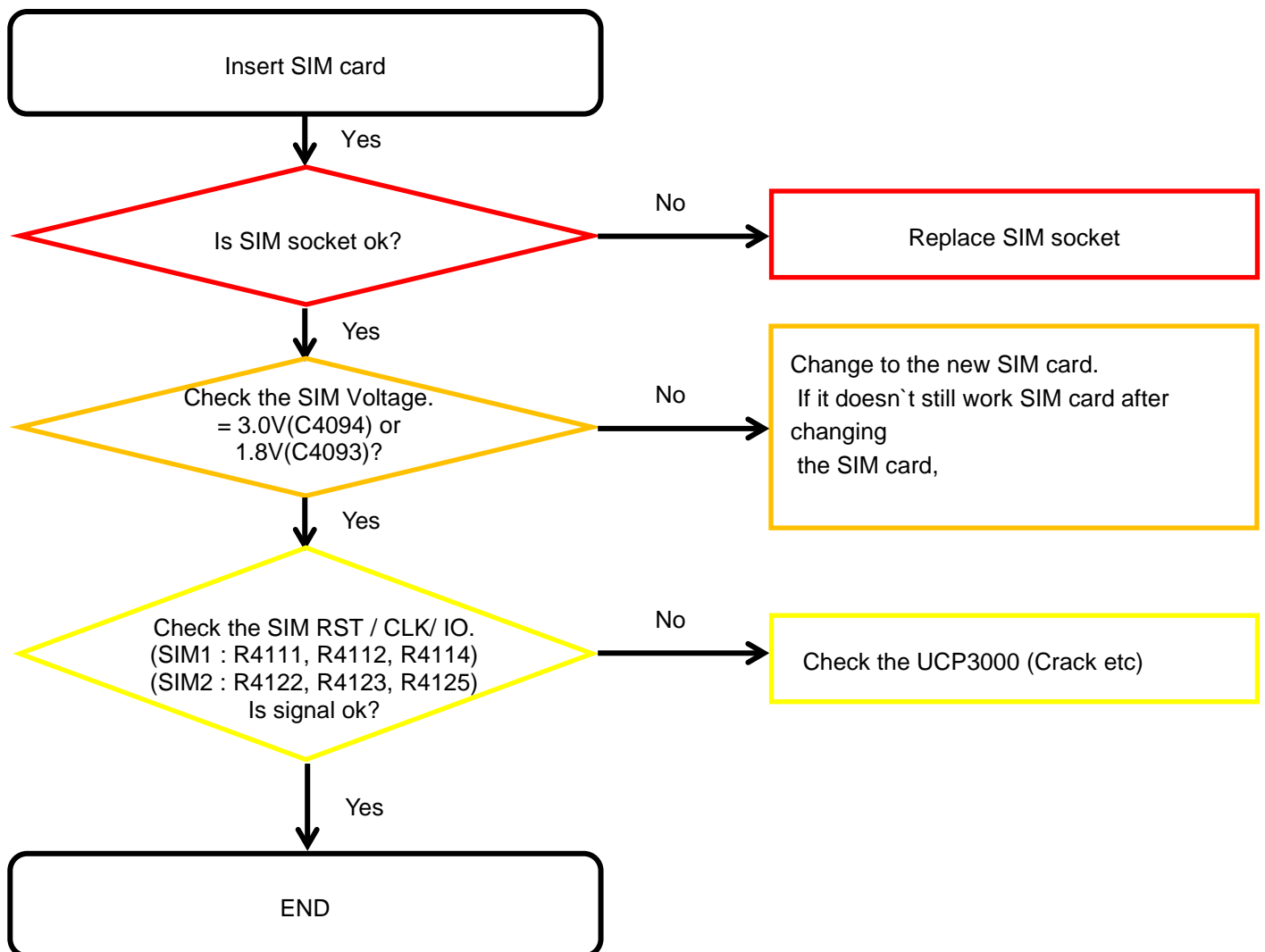


---

## 8. Level 3 Repair

---

### 8-4-4. SIM Part

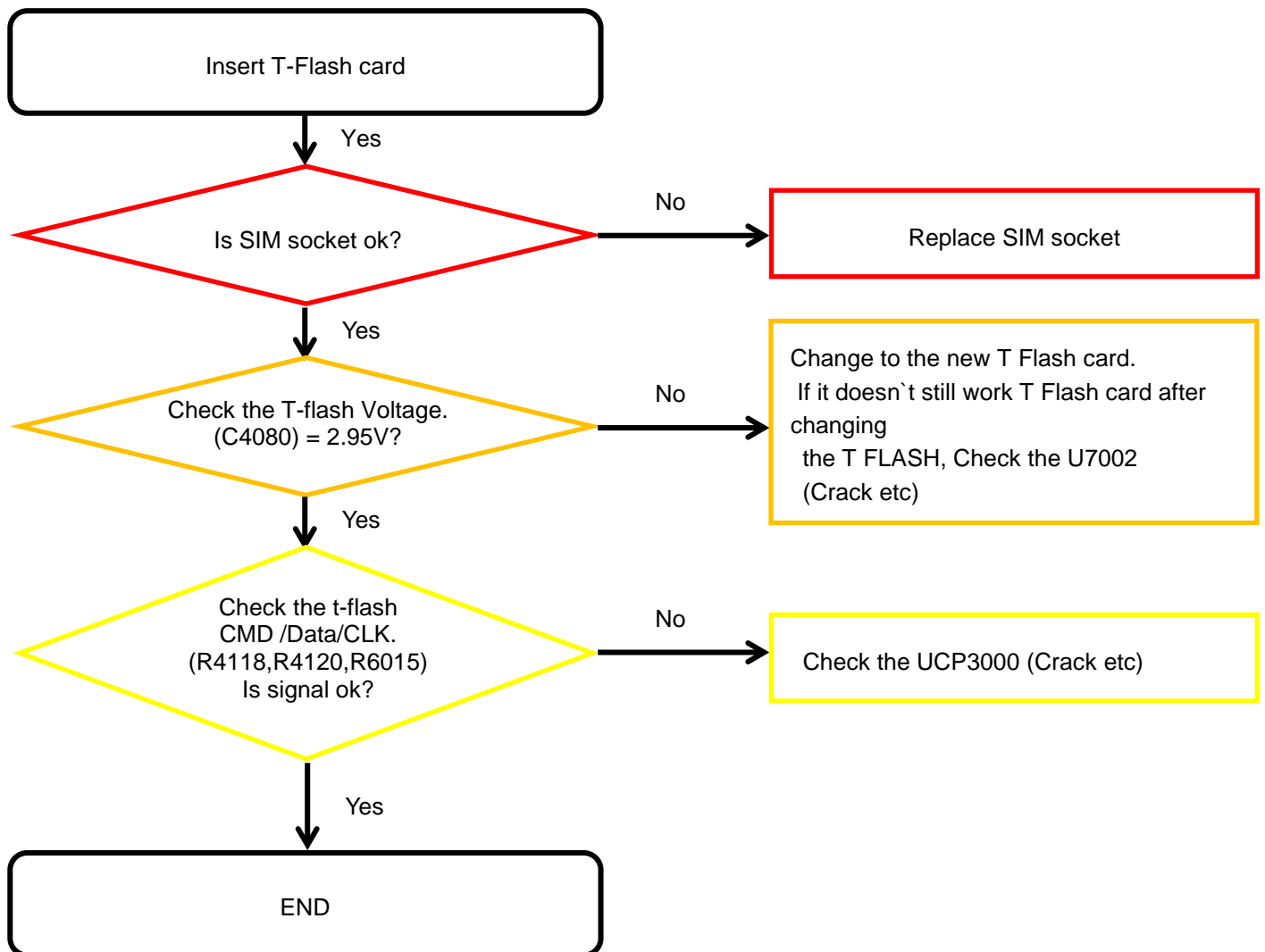


---

## 8. Level 3 Repair

---

### 8-4-5. T-Flash Part



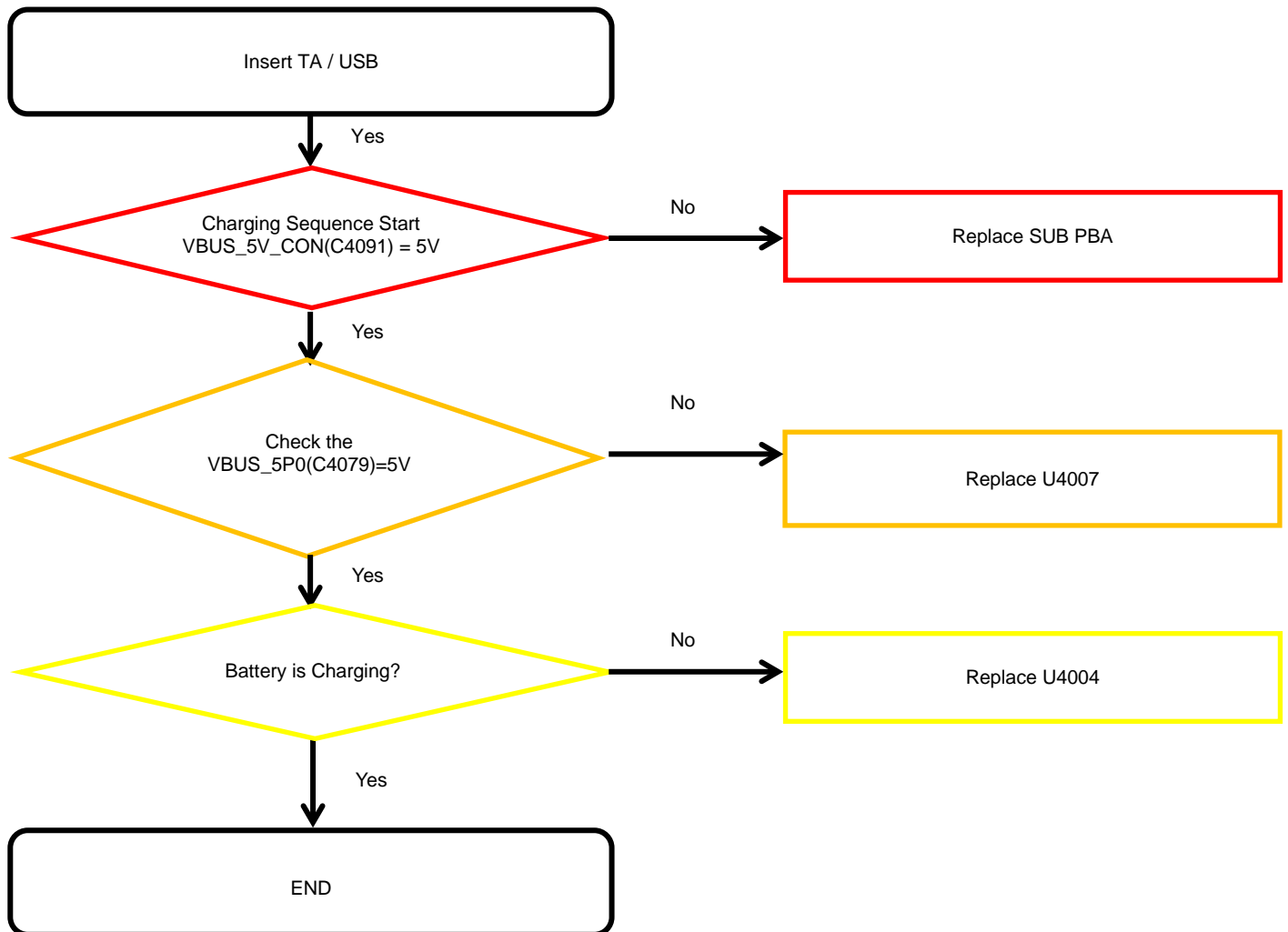


---

## 8. Level 3 Repair

---

### 8-4-6. Cable Charging Part

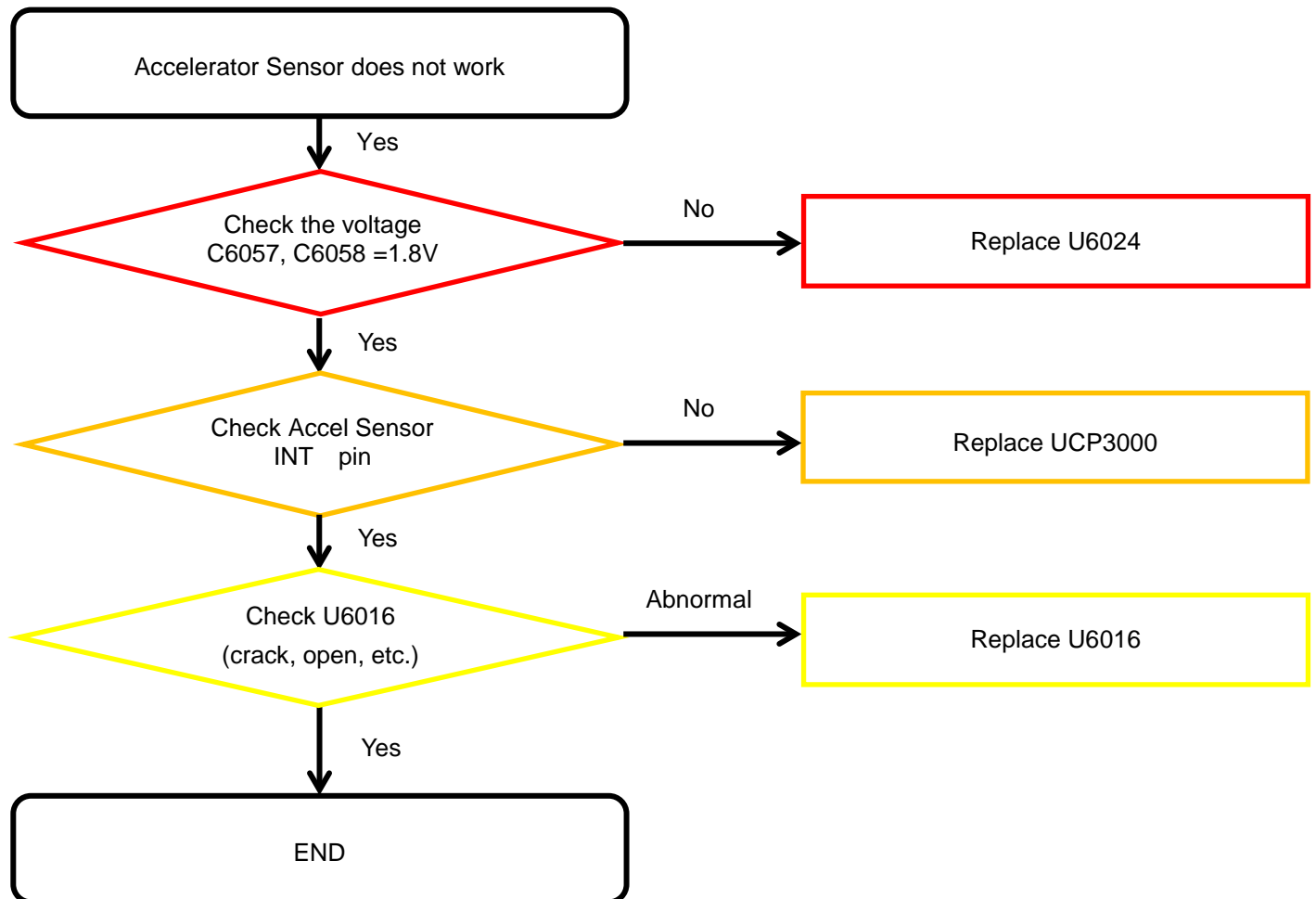


---

## 8. Level 3 Repair

---

### 8-4-7-1. Accelerator Sensor

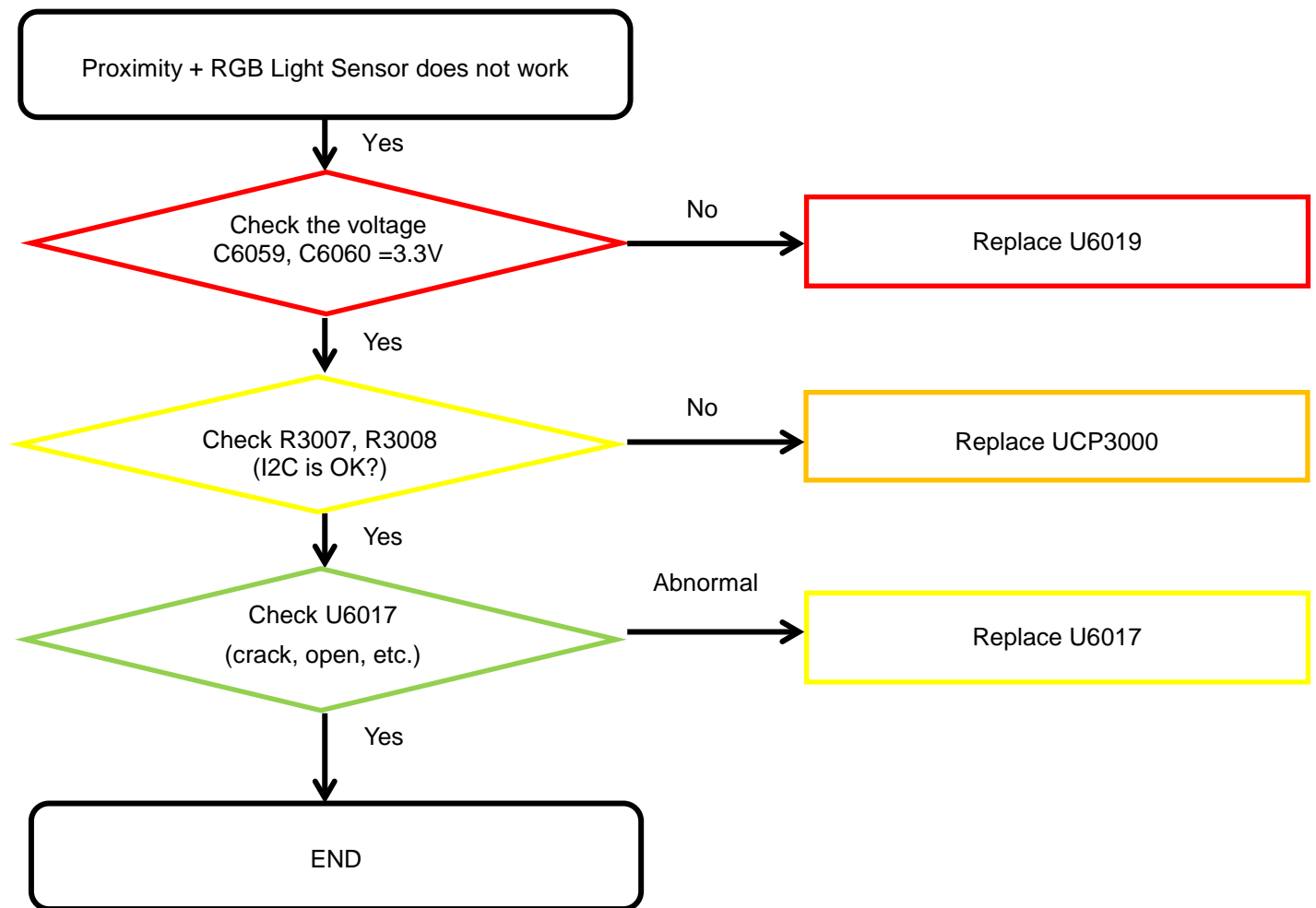


---

## 8. Level 3 Repair

---

### 8-4-7-2. Proximity sensor (RGB Light sensor)

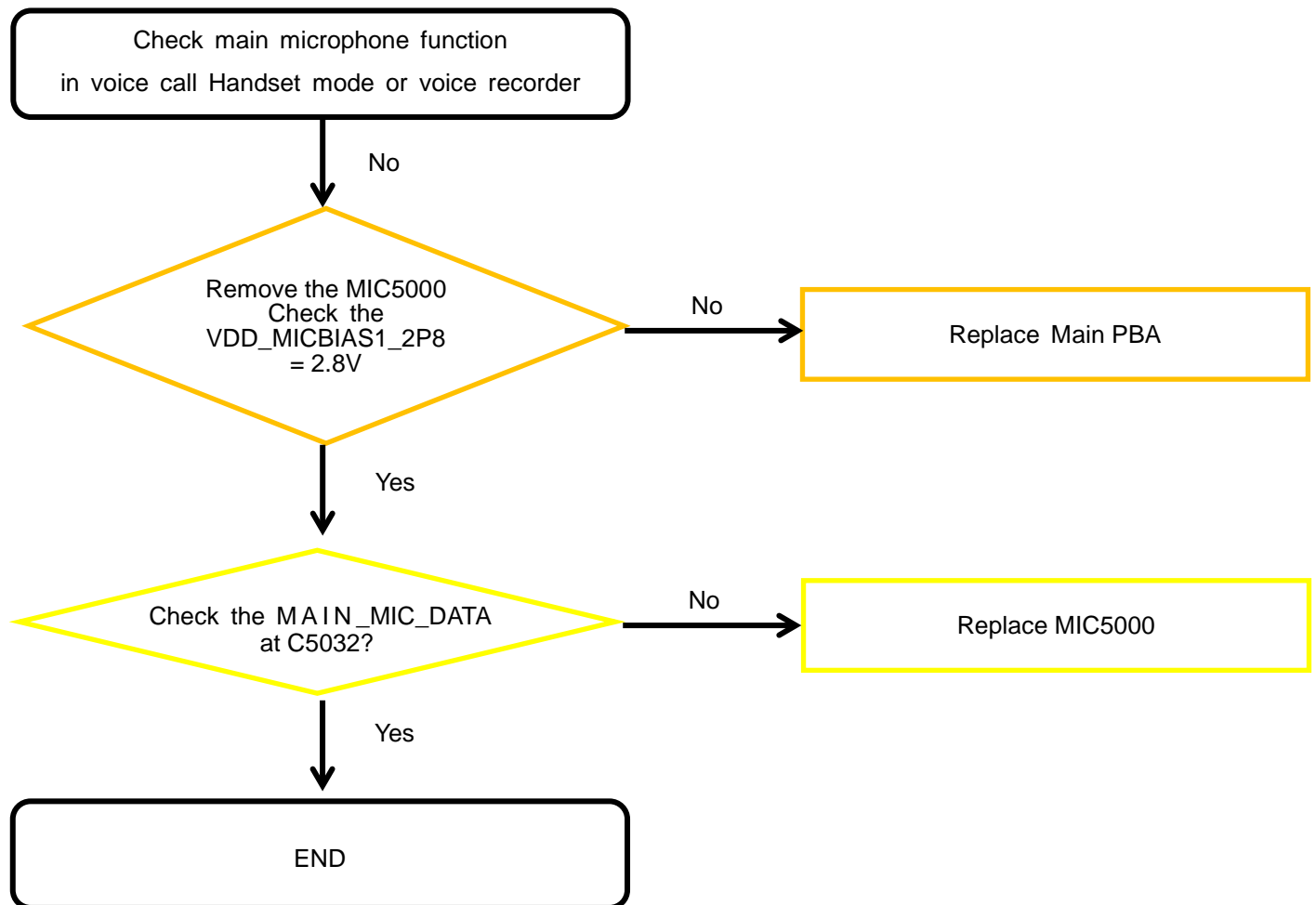


---

## 8. Level 3 Repair

---

### 8-4-8. Microphone Part - Main MIC

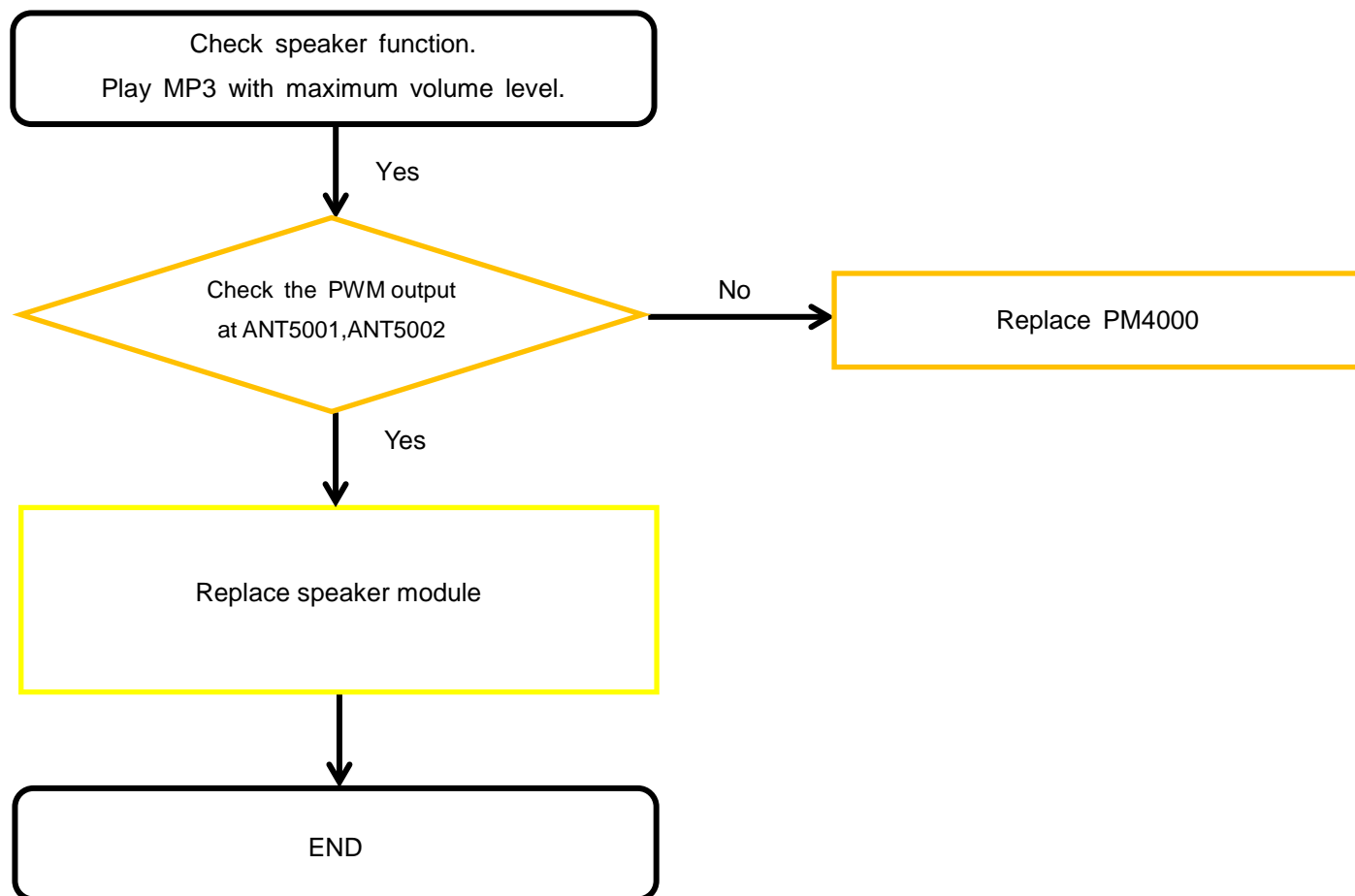


---

## 8. Level 3 Repair

---

### 8-4-9. Speaker Part

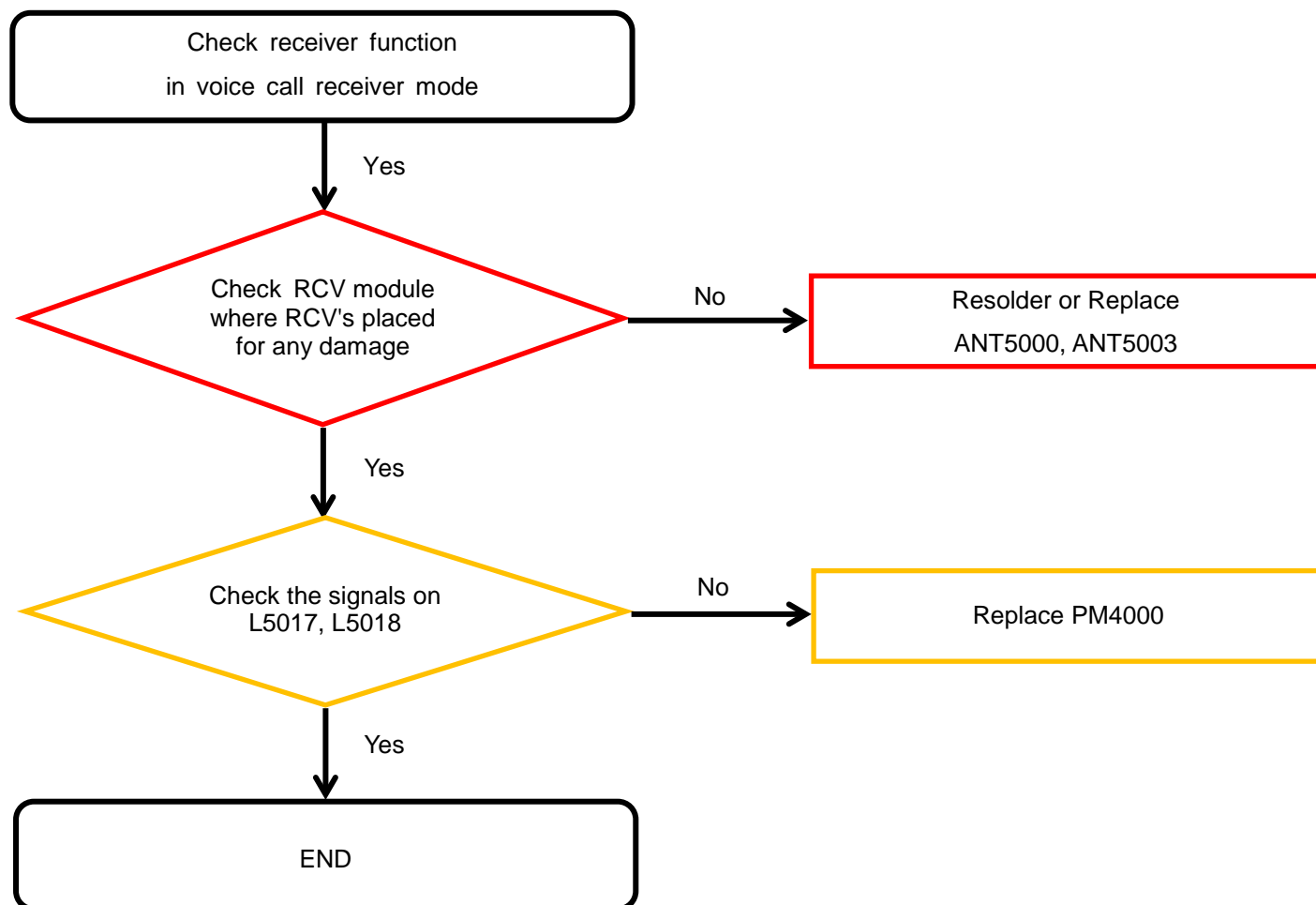


---

## 8. Level 3 Repair

---

### 8-4-10. Receiver Part

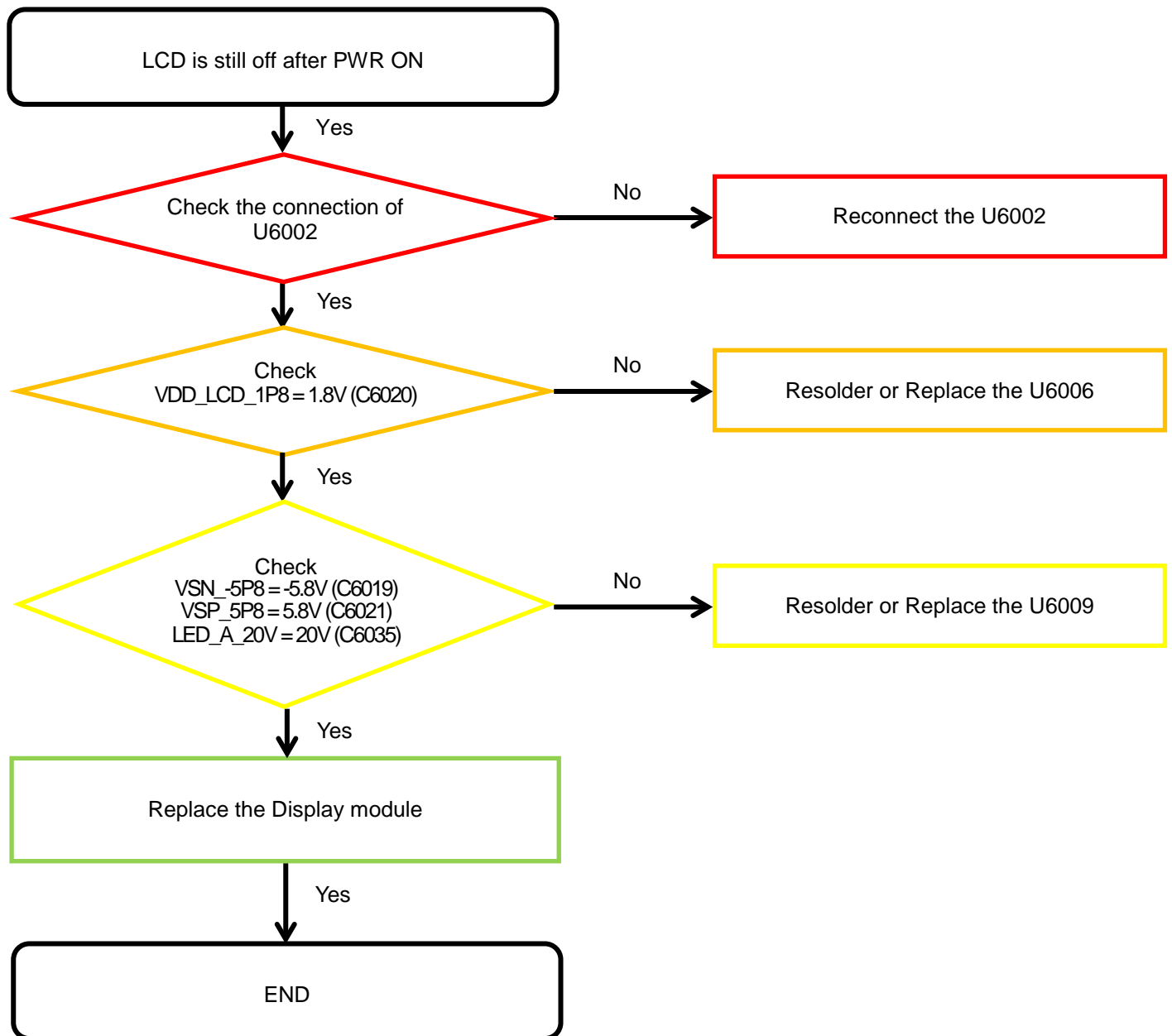


---

## 8. Level 3 Repair

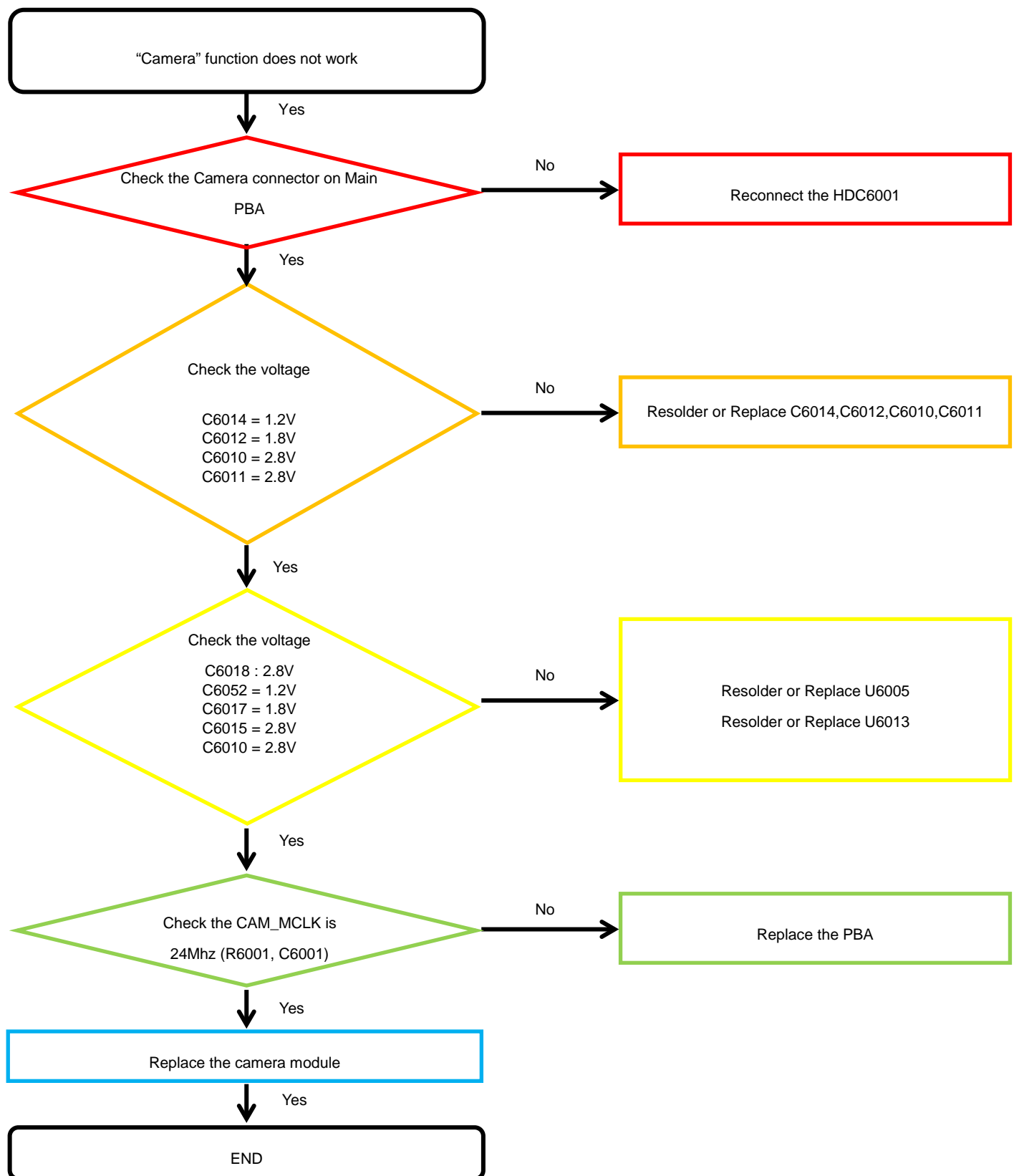
---

### 8-4-11. Display



## 8. Level 3 Repair

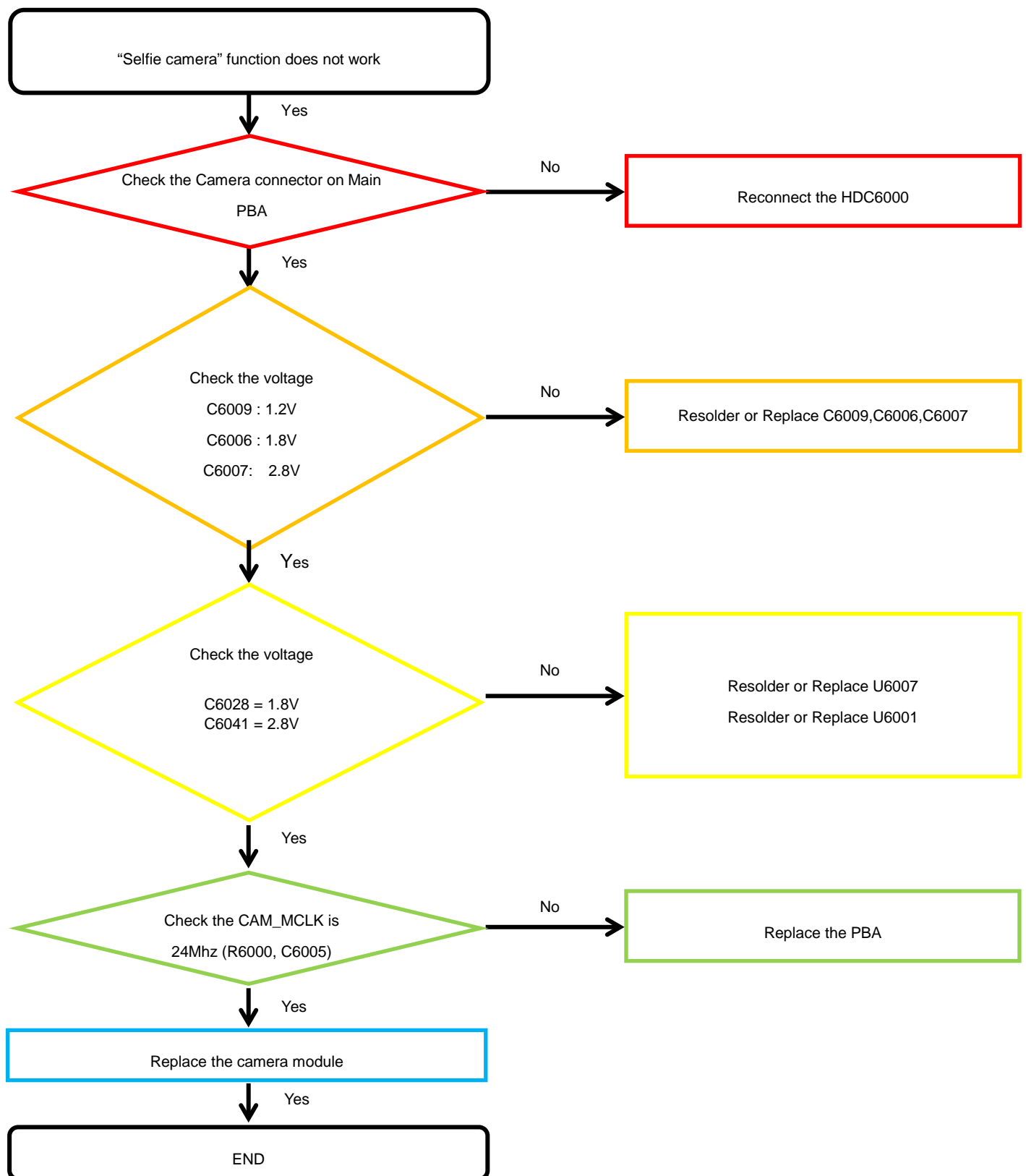
### 8-4-12. 13M AF Rear CAMERA





## 8. Level 3 Repair

### 8-4-13. 5M FF VT CAMERA

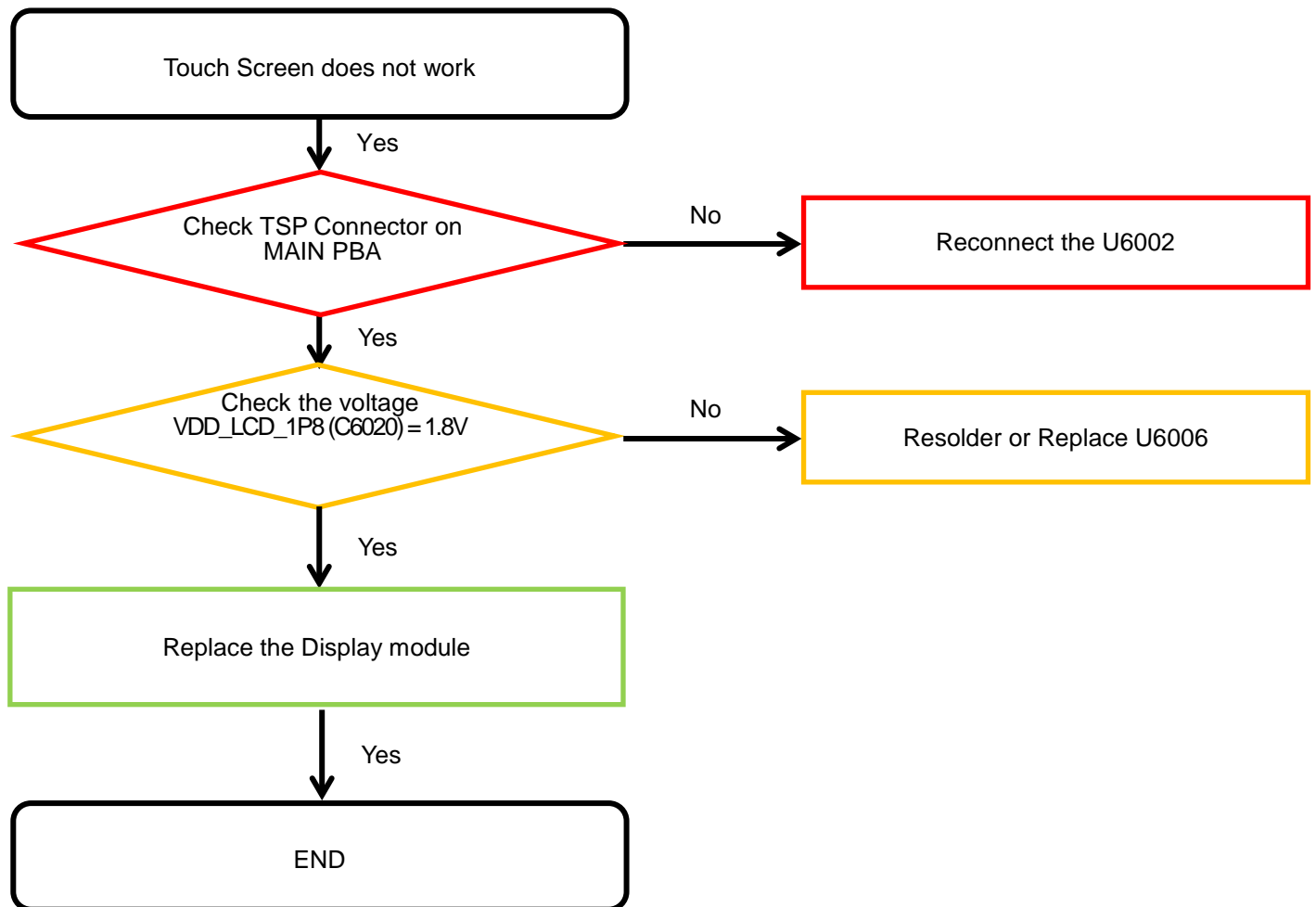


---

## 8. Level 3 Repair

---

### 8-4-14. TSP

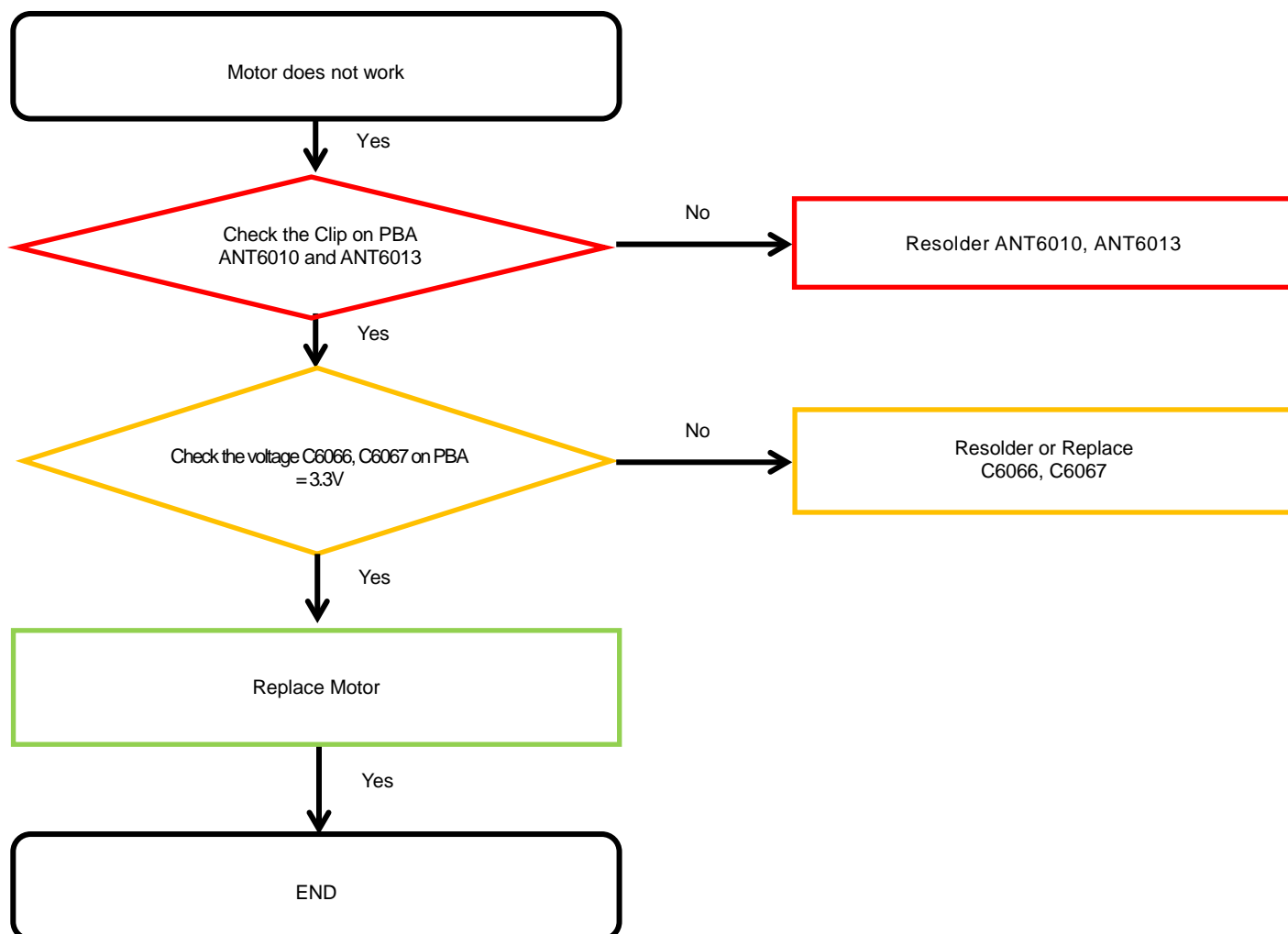


---

## 8. Level 3 Repair

---

### 8-4-15. Motor

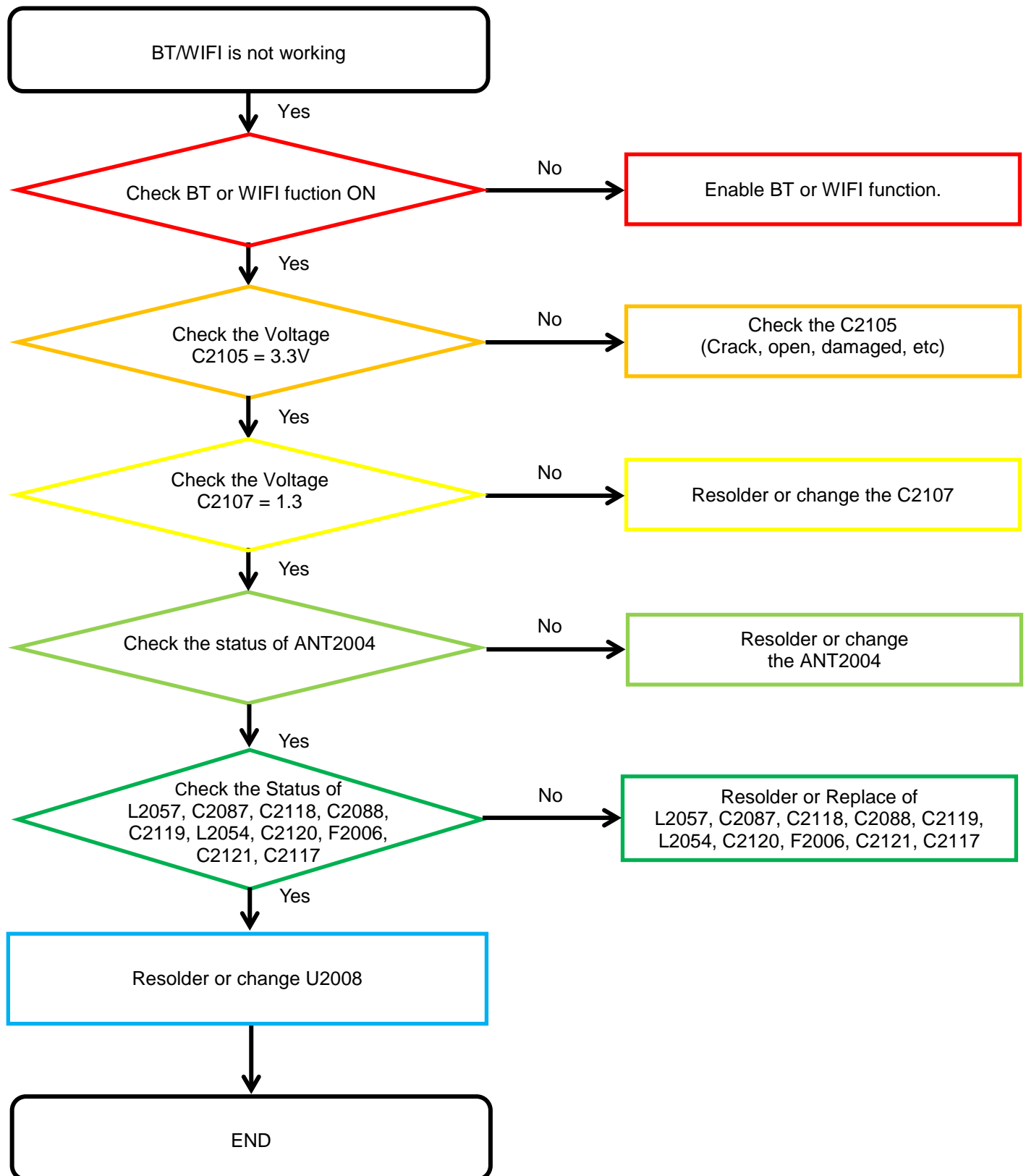


---

## 8. Level 3 Repair

---

### 8-4-16. BT/WIFI

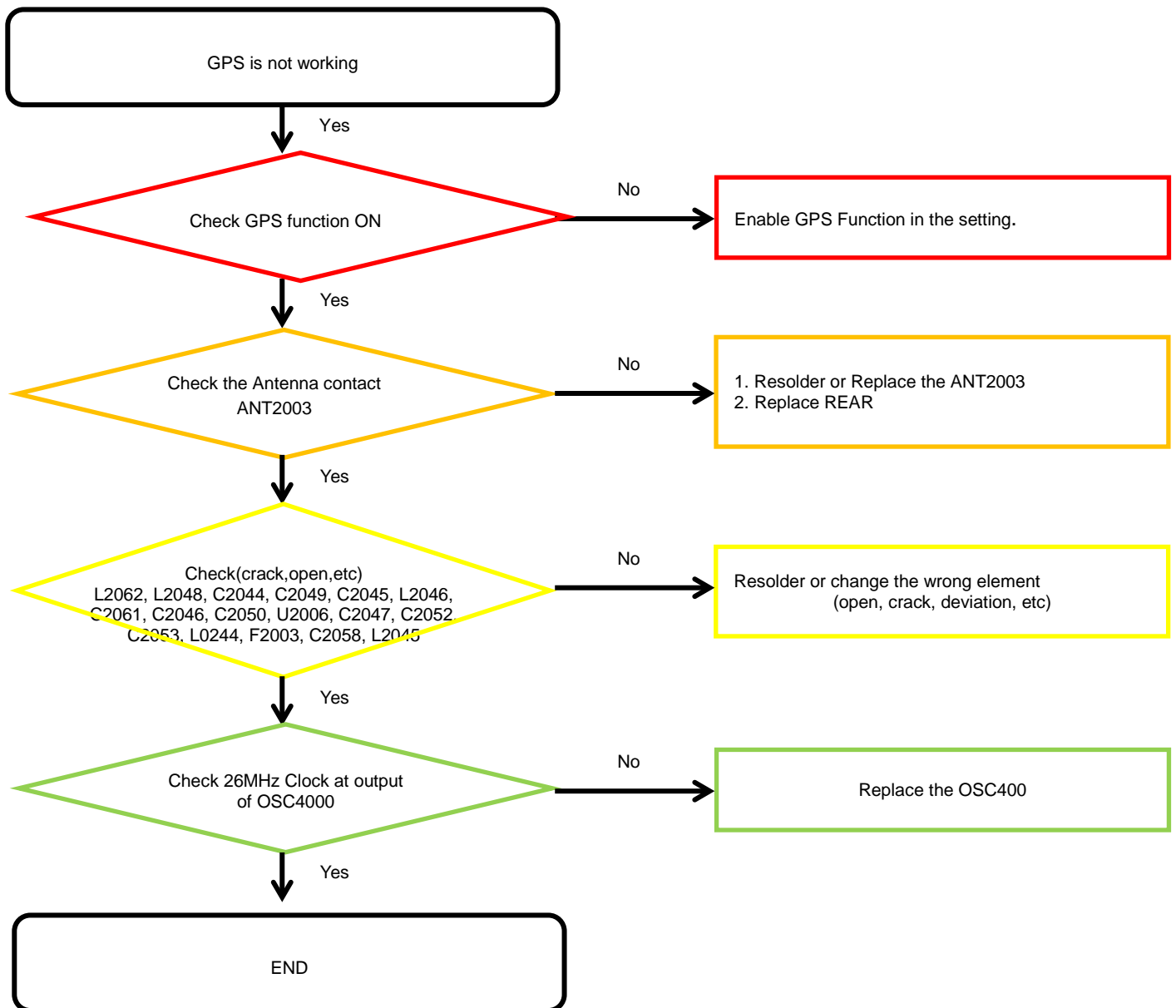


---

## 8. Level 3 Repair

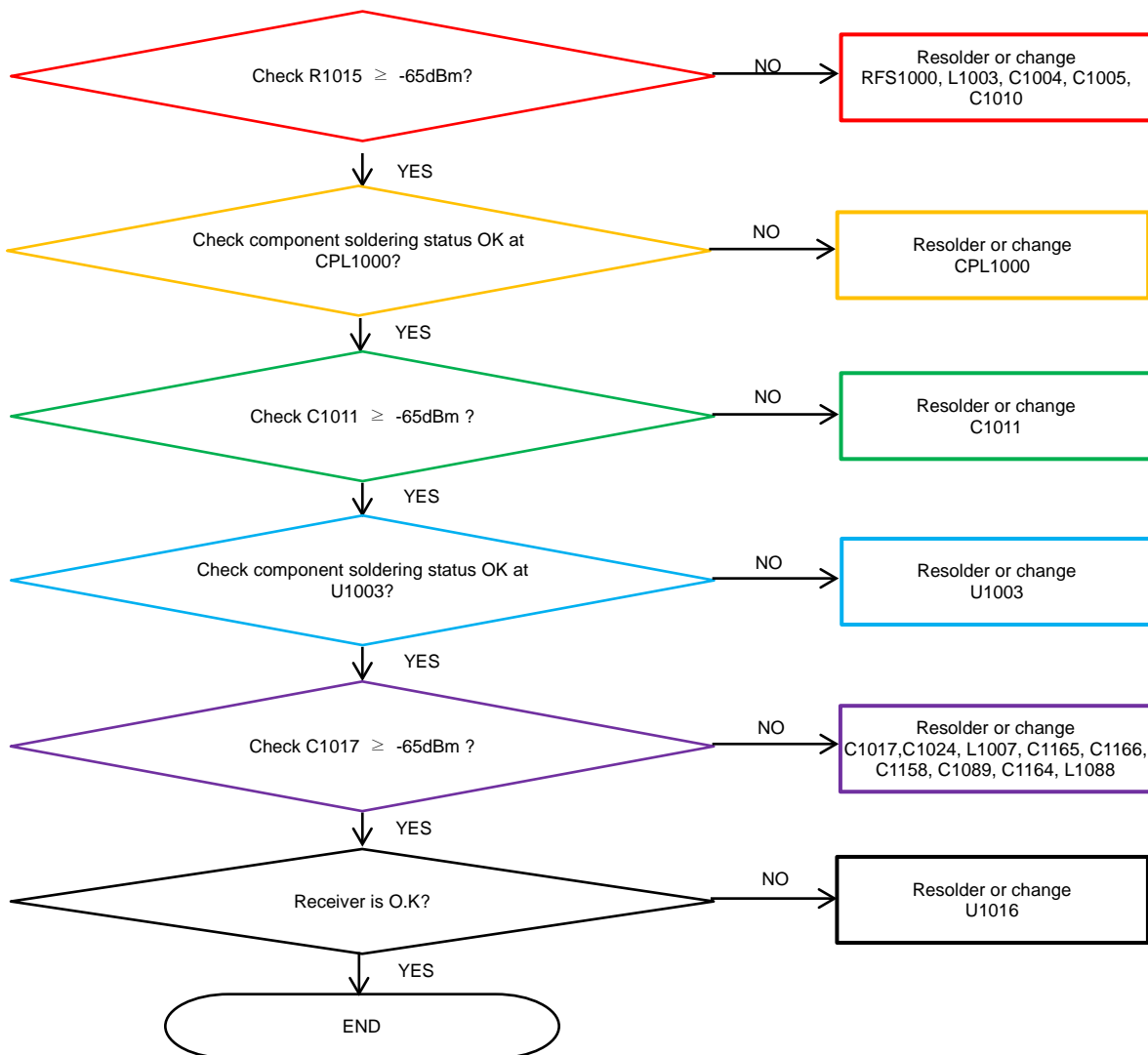
---

### 8-4-17. GPS



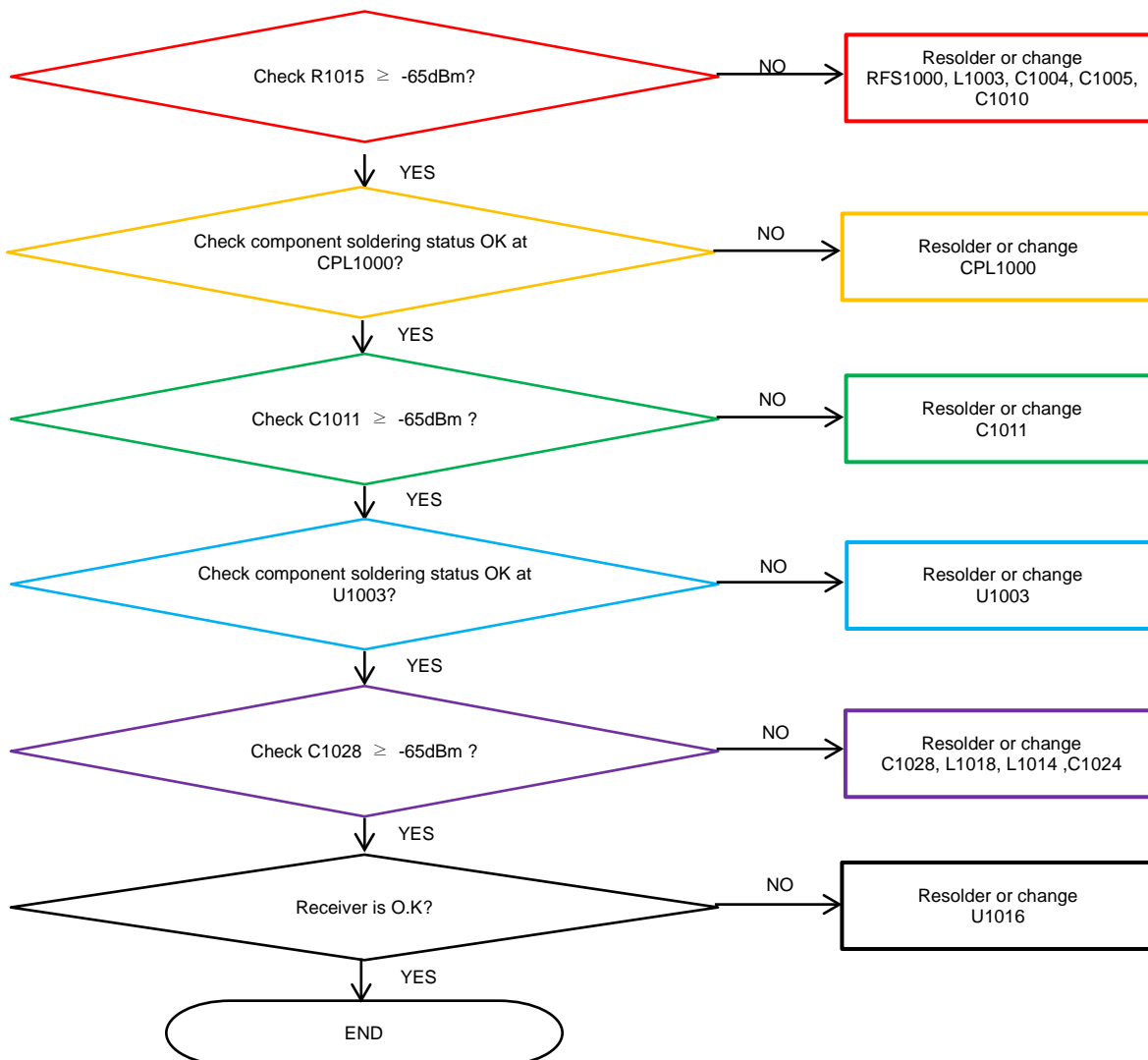
## 8. Level 3 Repair

### 8-4-18. LTE B1, WCDMA B1 Rx [SM-J410F]



## 8. Level 3 Repair

### 8-4-19. LTE, WCDMA B2 / PCS RX

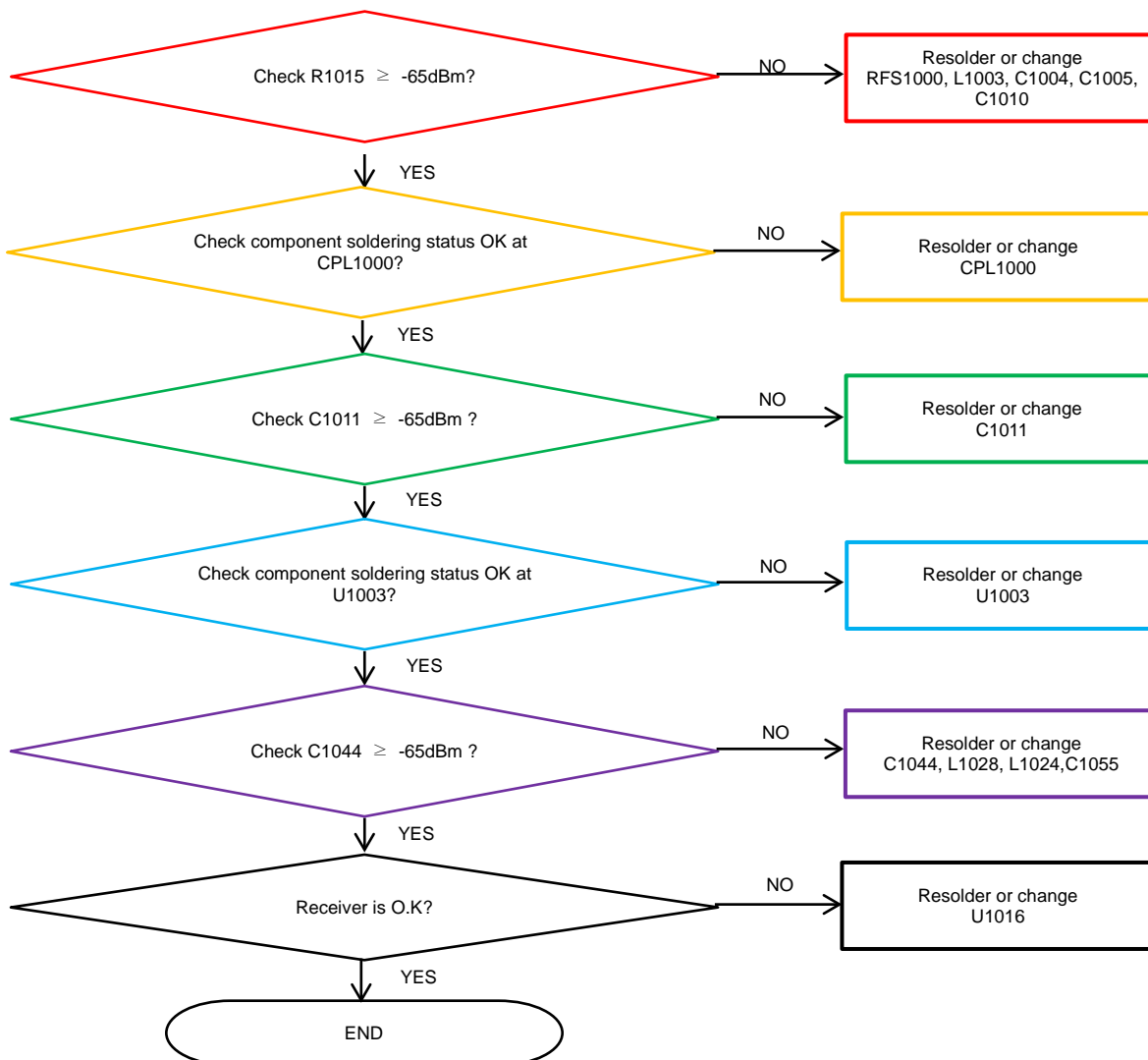


---

## 8. Level 3 Repair

---

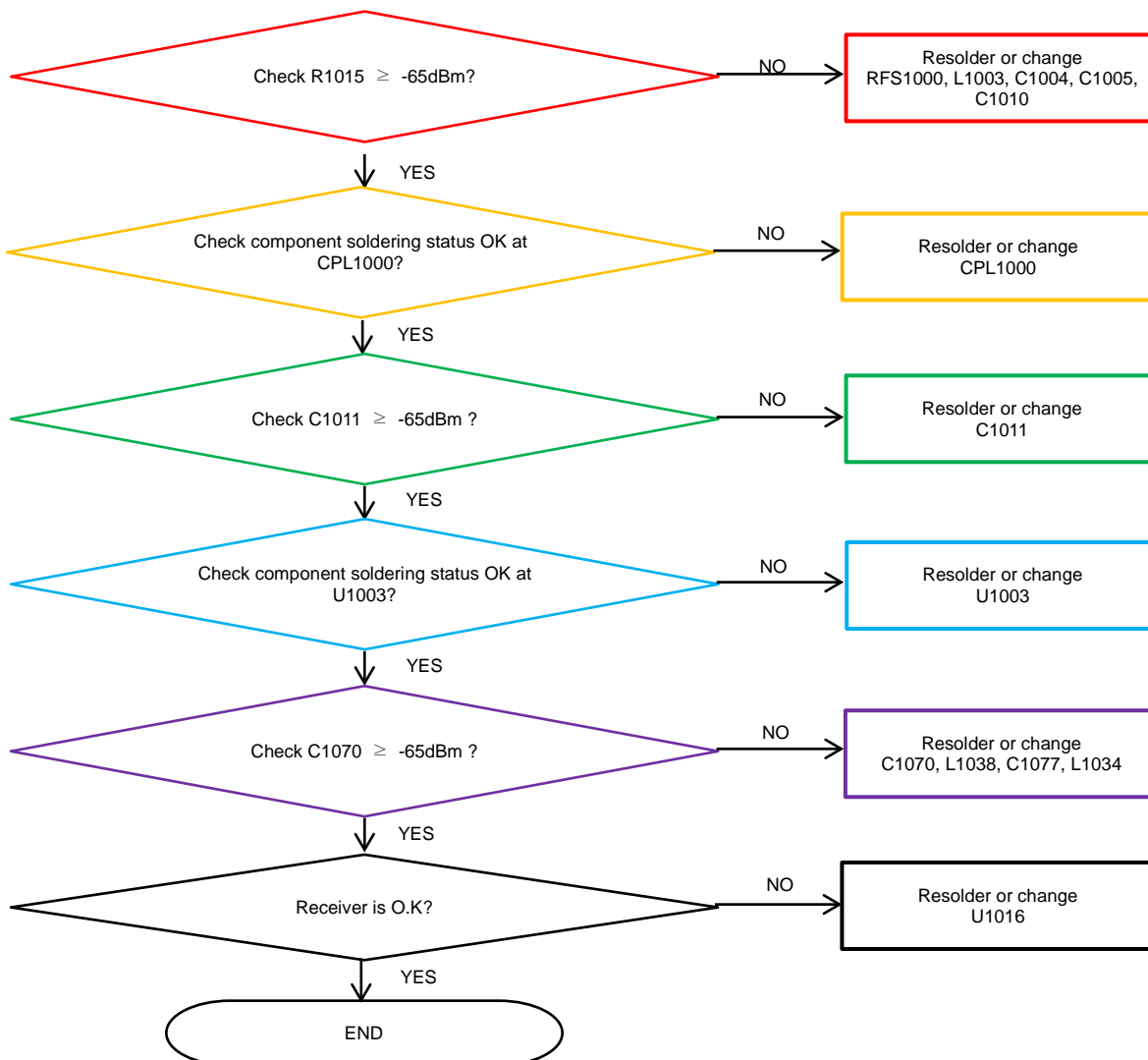
### 8-4-20. LTE B3 / DCS RX





## 8. Level 3 Repair

### 8-4-21. LTE, WCDMA B5 / GSM850 RX

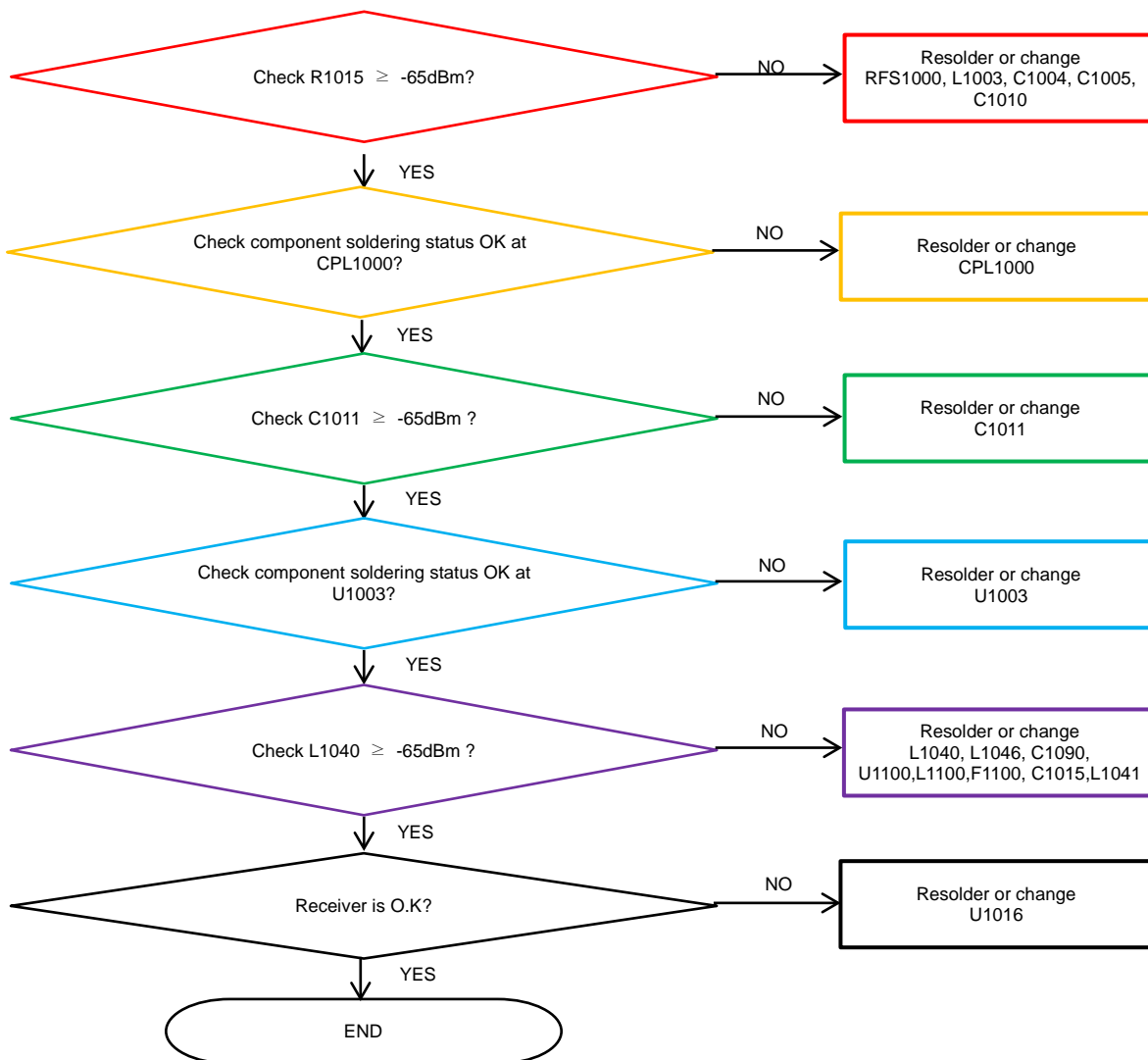


---

## 8. Level 3 Repair

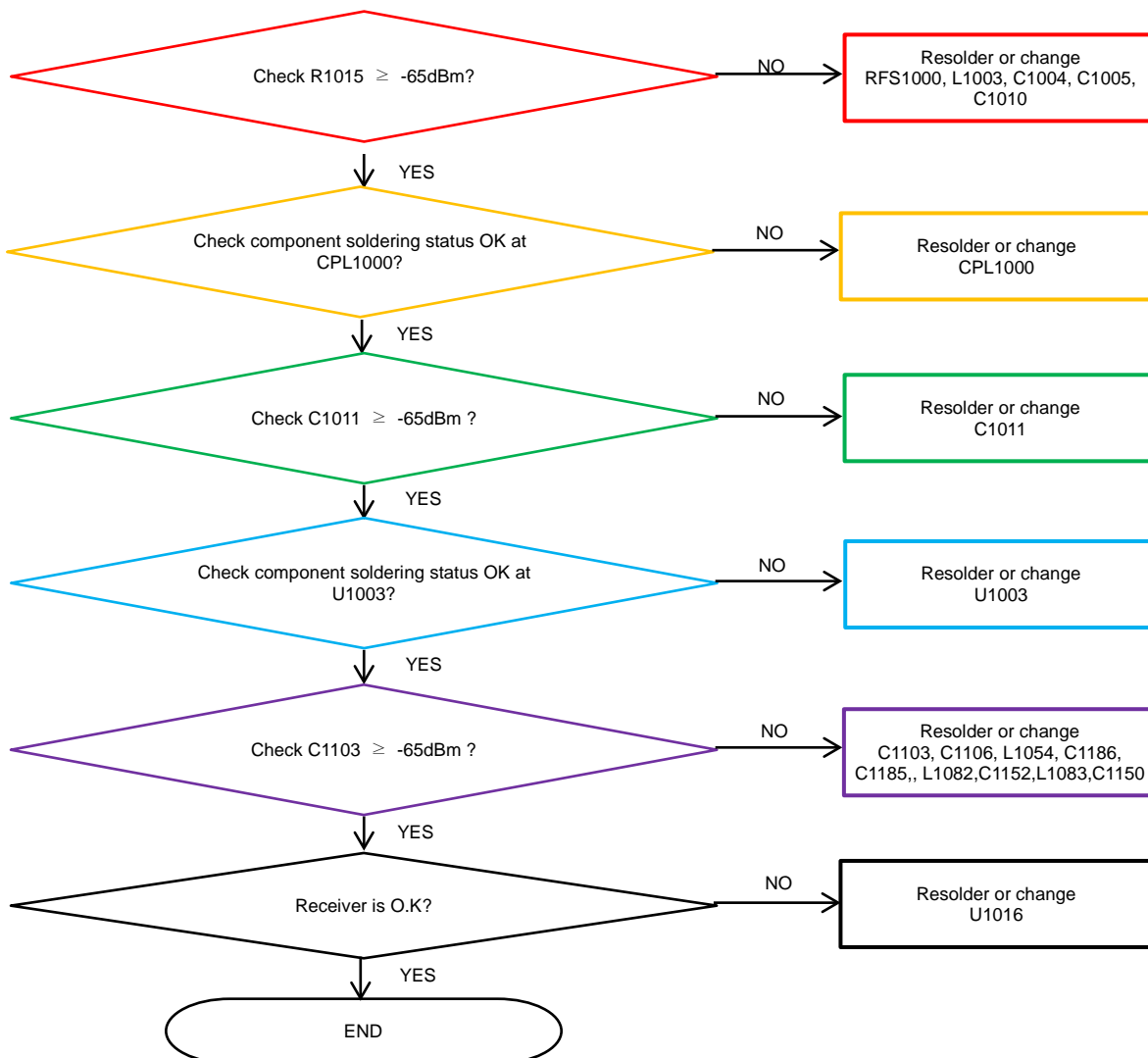
---

### 8-4-22. LTE, WCDMA B8 / EGSM RX



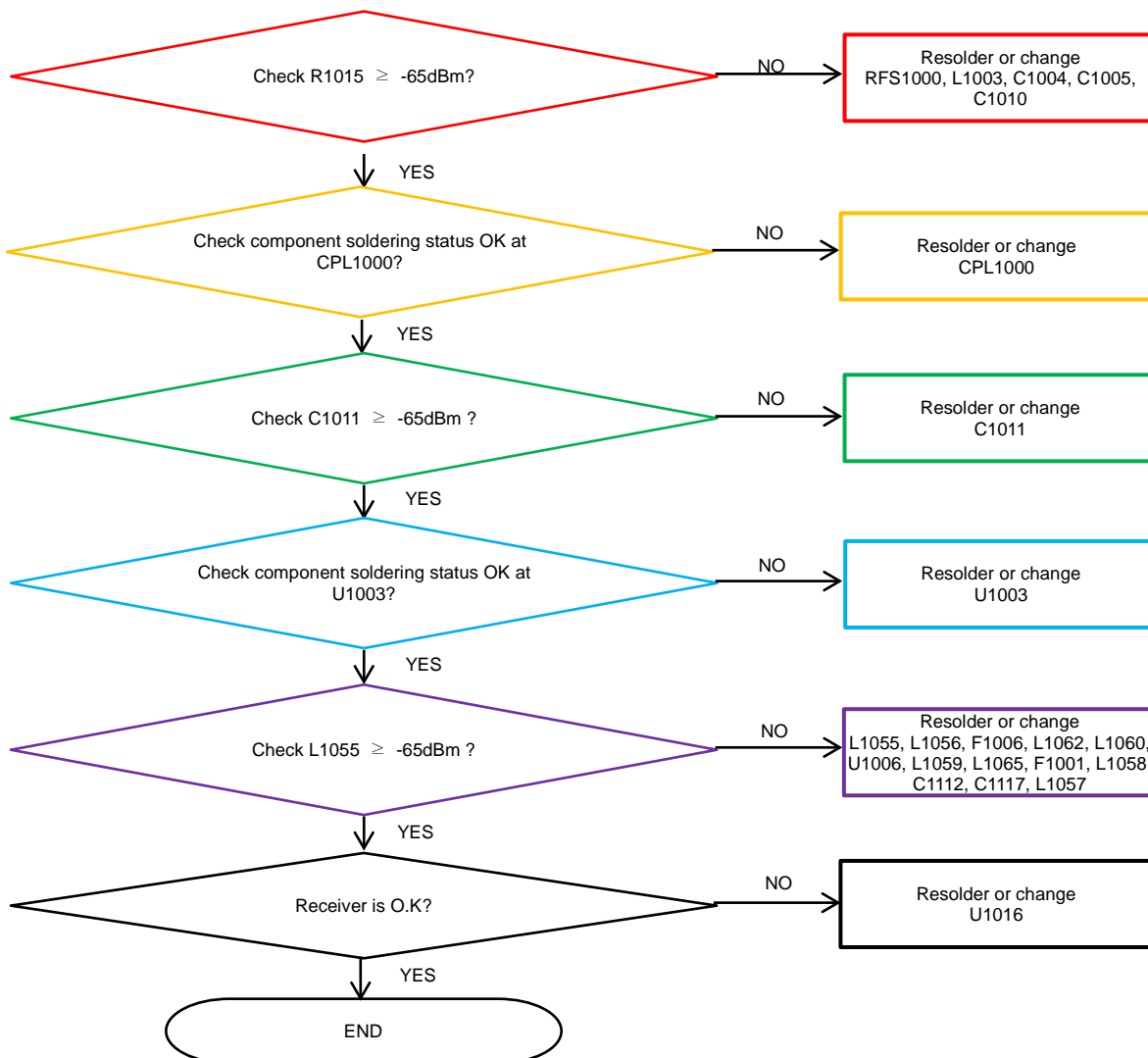
## 8. Level 3 Repair

### 8-4-23. LTE B20 RX [SM-J410F]



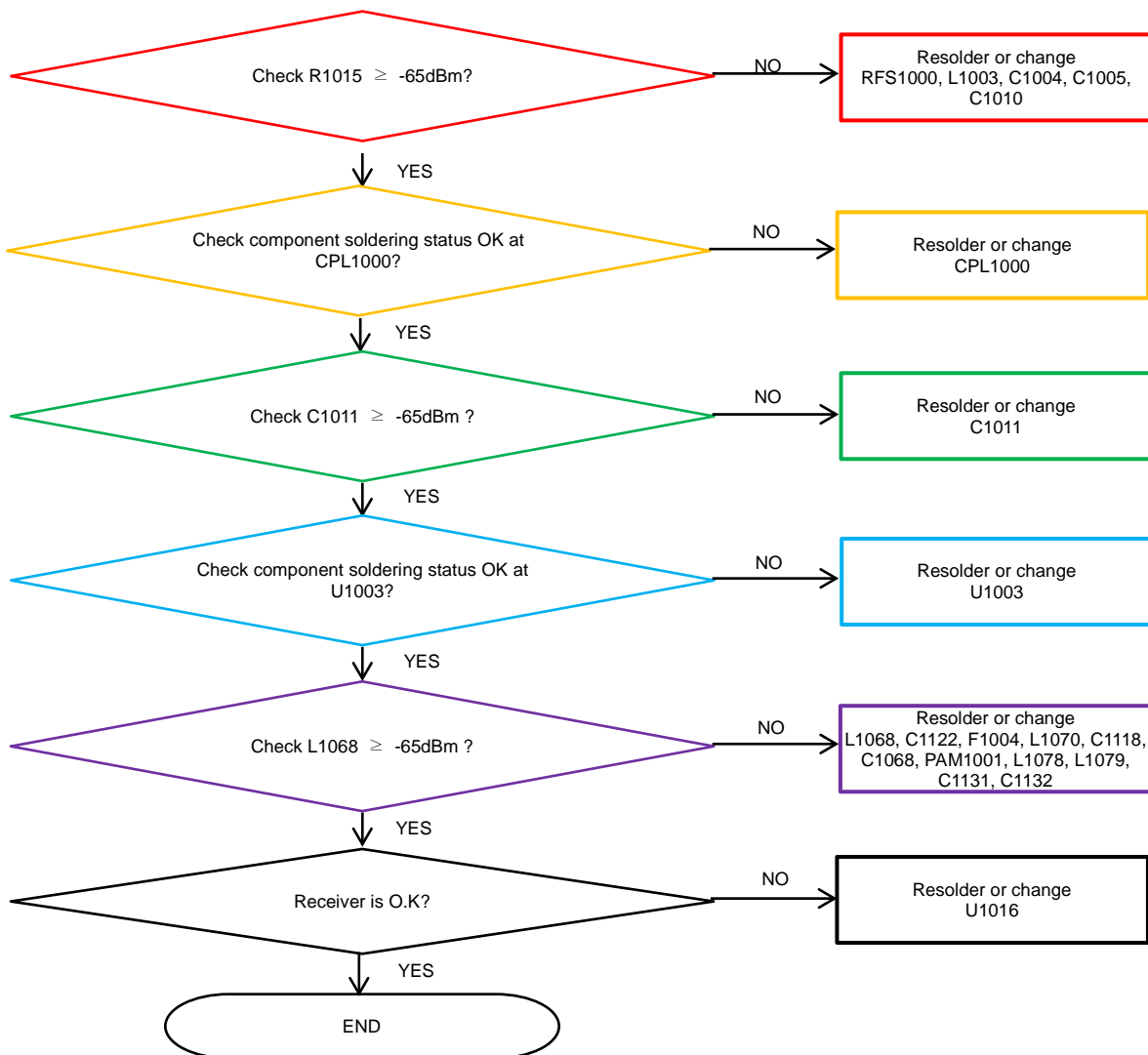
## 8. Level 3 Repair

### 8-4-24. LTE B7 RX



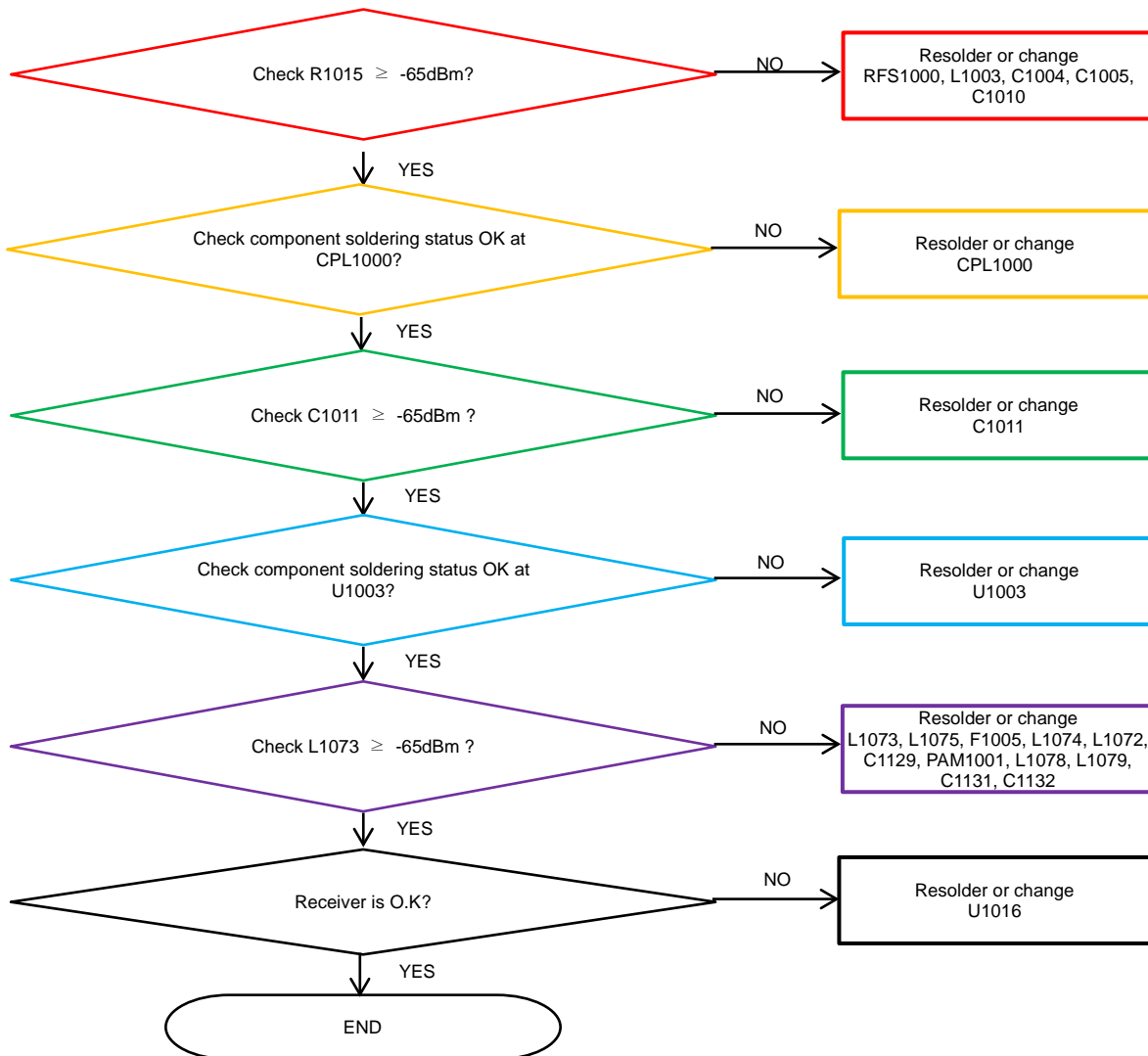
## 8. Level 3 Repair

### 8-4-25. LTE B38\_41 RX



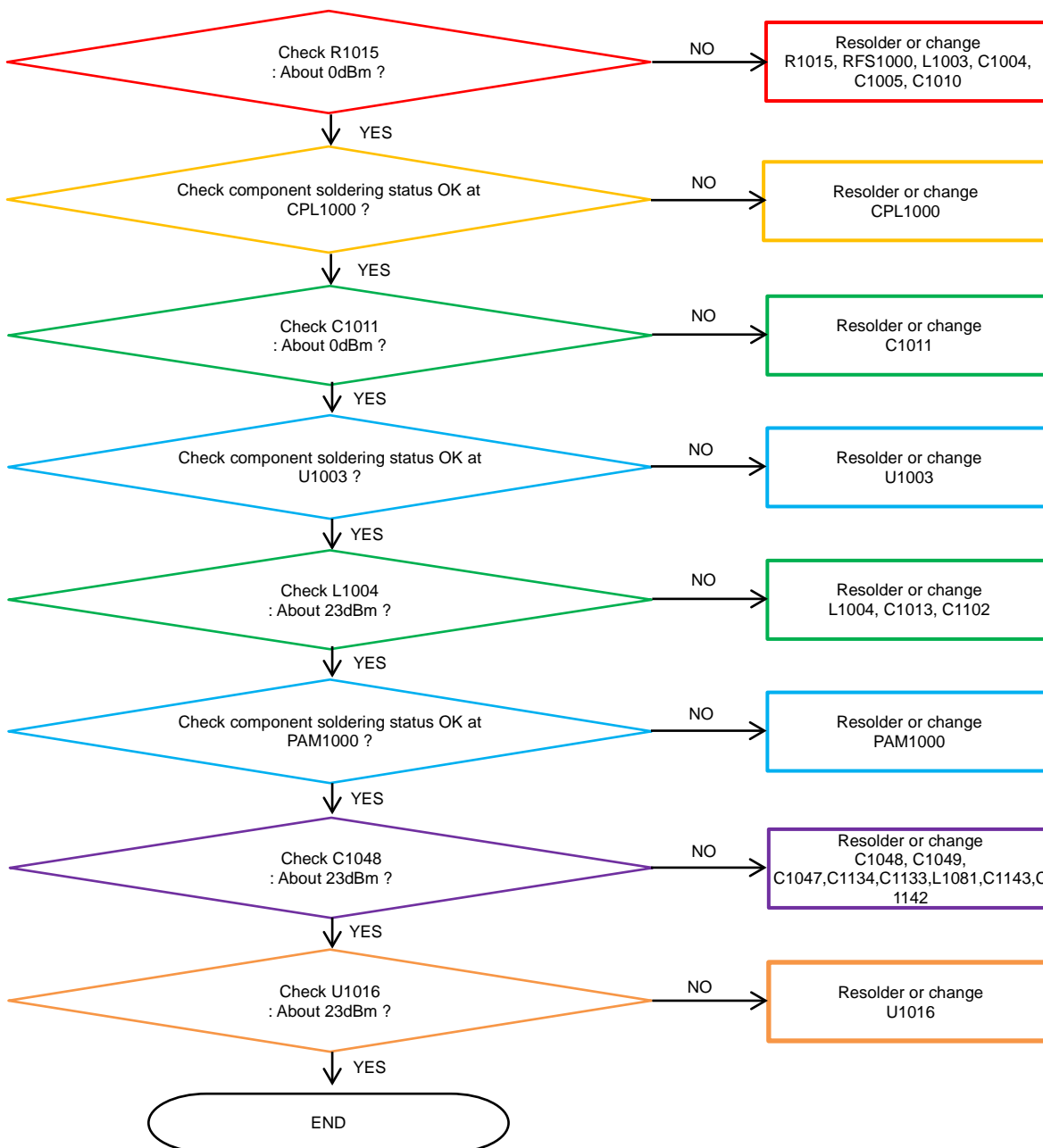
## 8. Level 3 Repair

### 8-4-26. LTE B40 RX



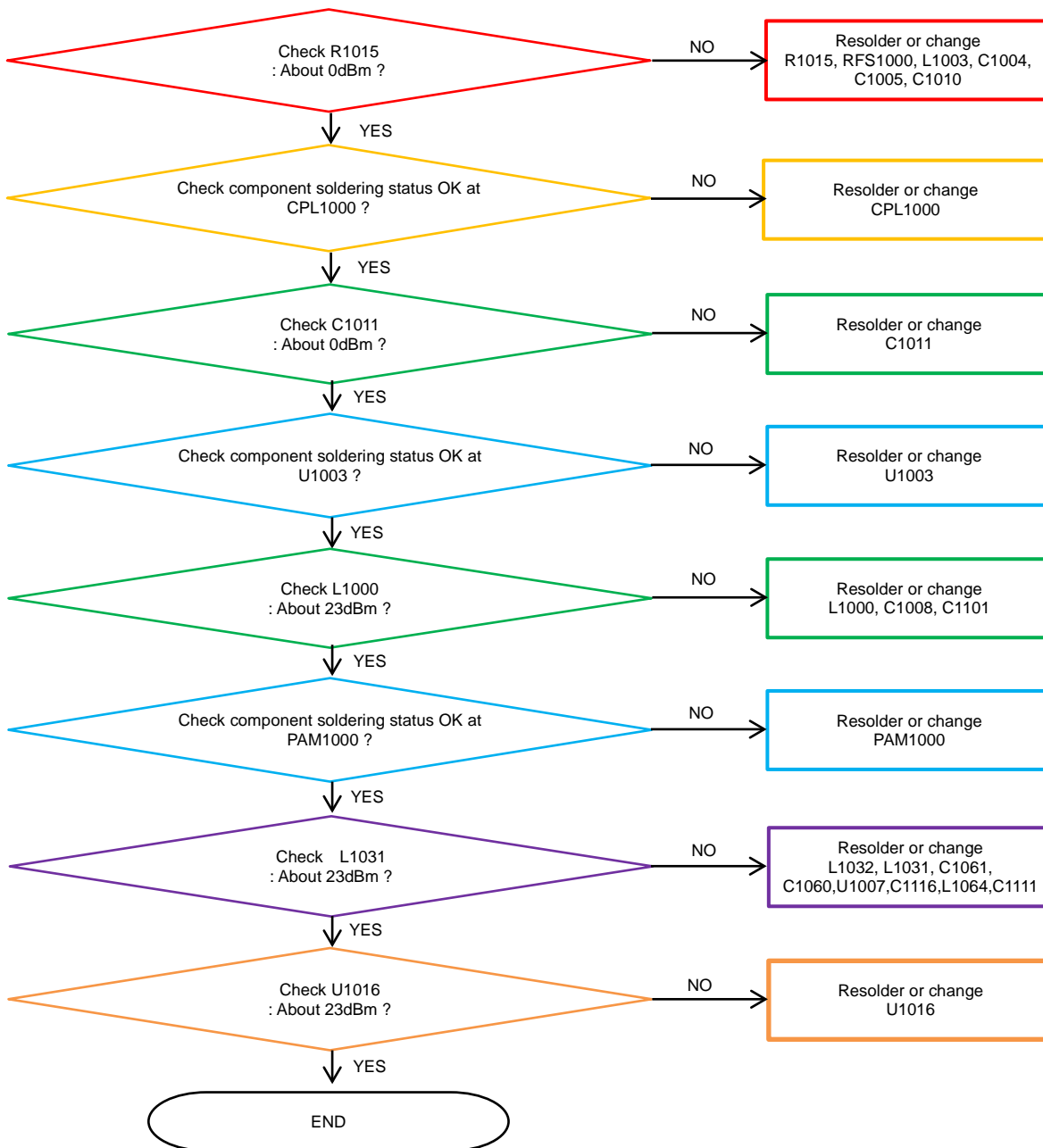
## 8. Level 3 Repair

### 8-4-27. GSM 850 / GSM900 TX [SM-J410F]



## 8. Level 3 Repair

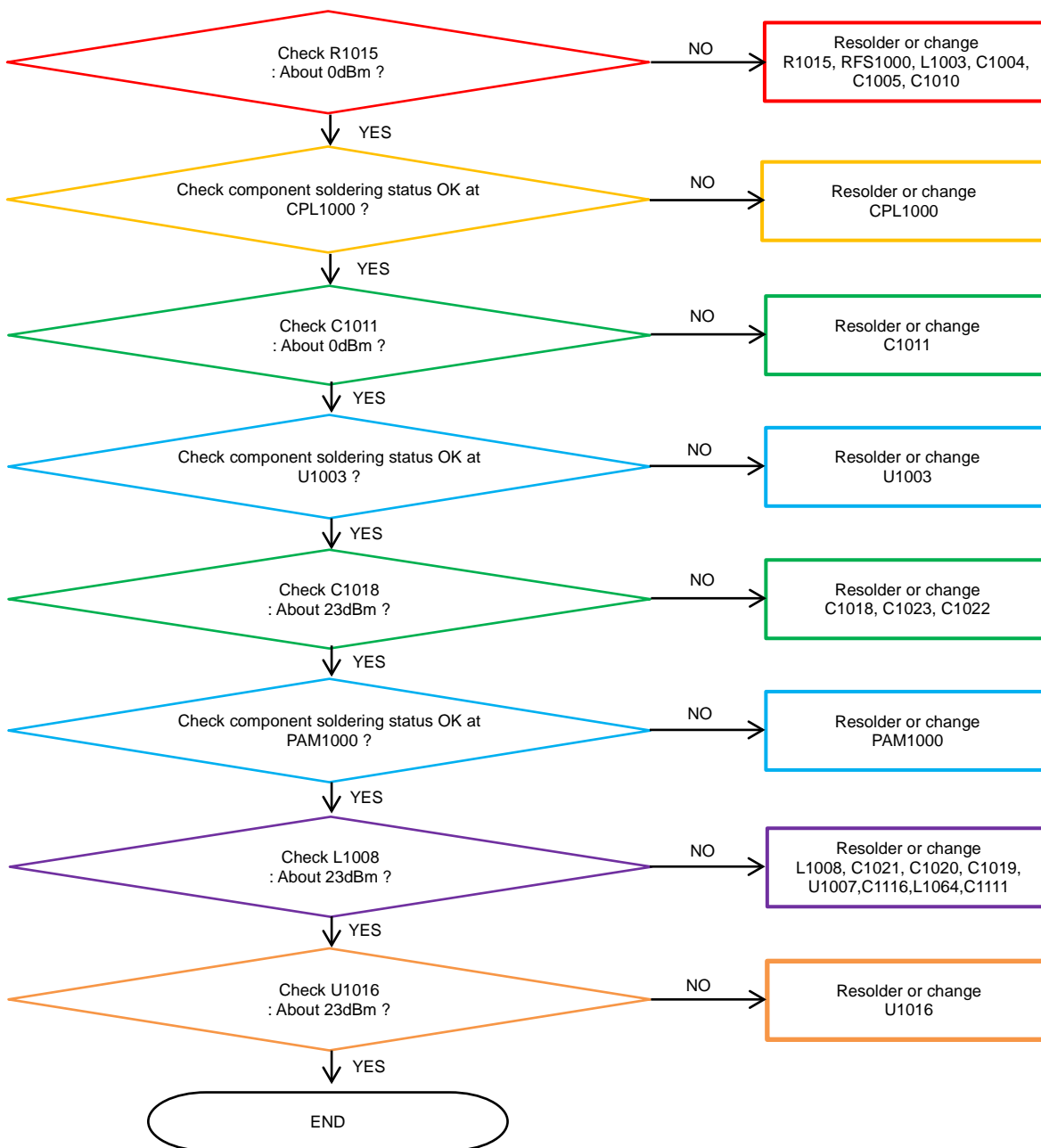
### 8-4-28. GSM1800/ GSM1900 TX





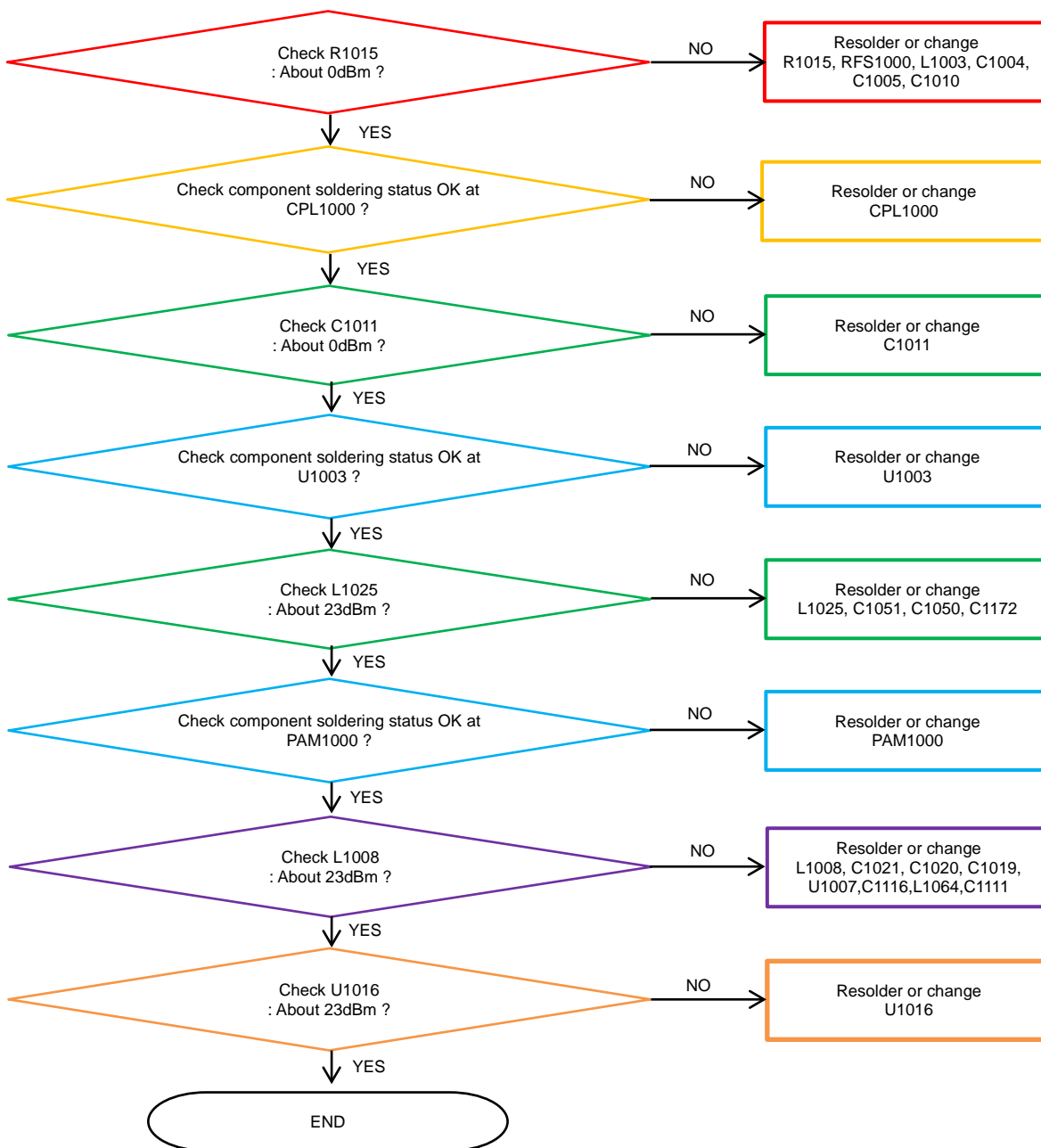
## 8. Level 3 Repair

### 8-4-29. LTE, WCDMA B1 TX



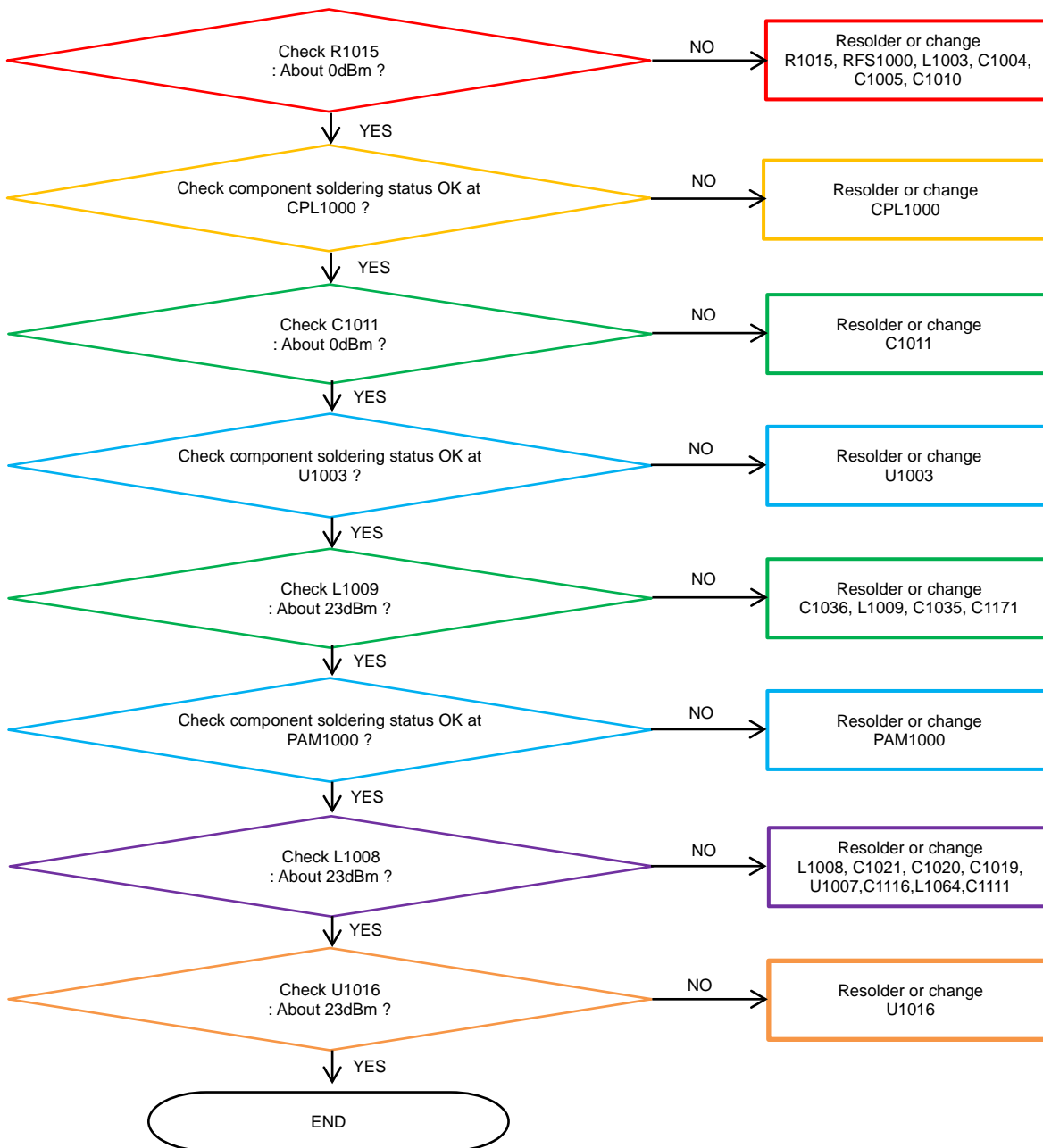
## 8. Level 3 Repair

### 8-4-30. LTE, WCDMA B2 TX



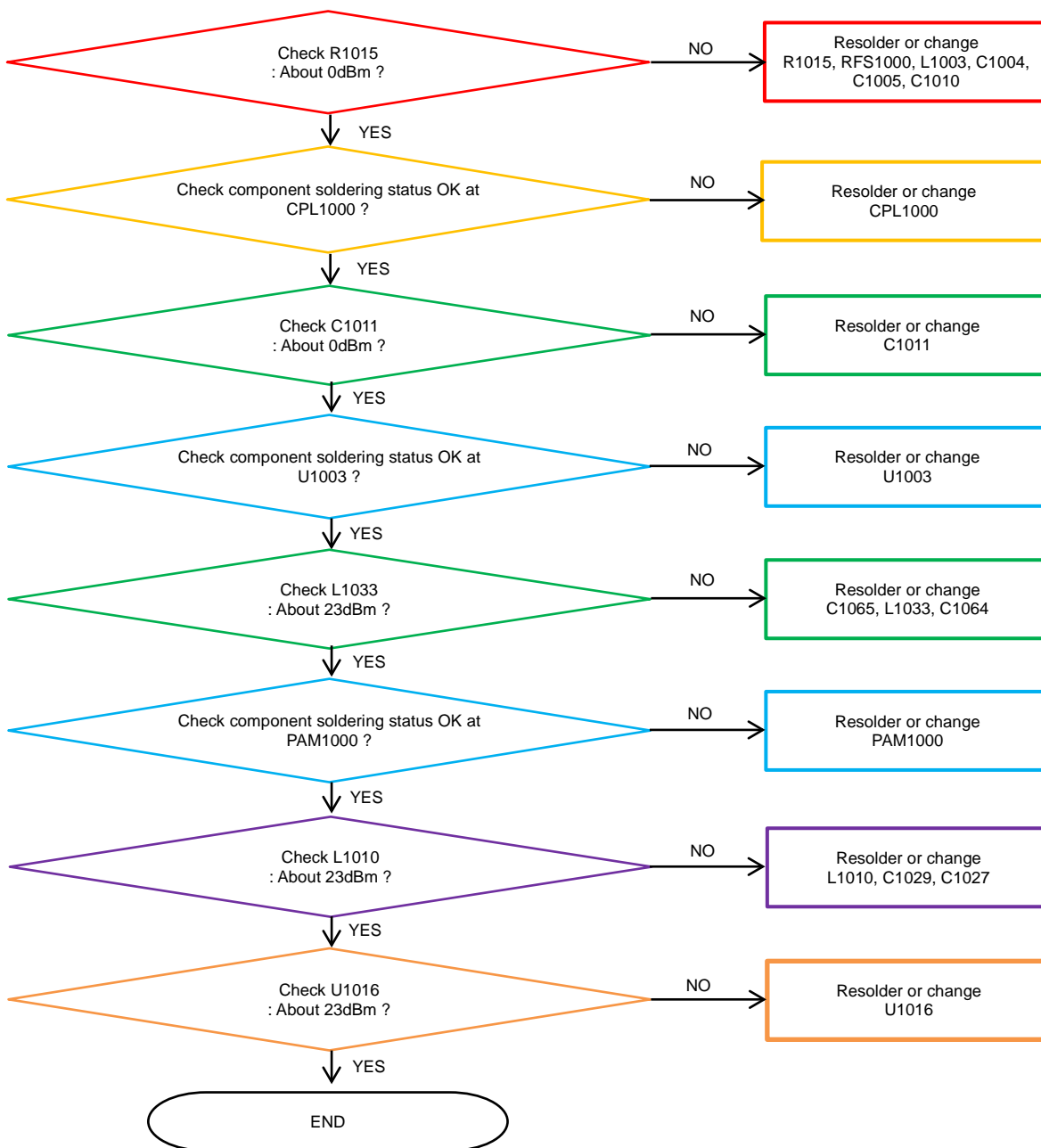
## 8. Level 3 Repair

### 8-4-31. LTE B3 TX



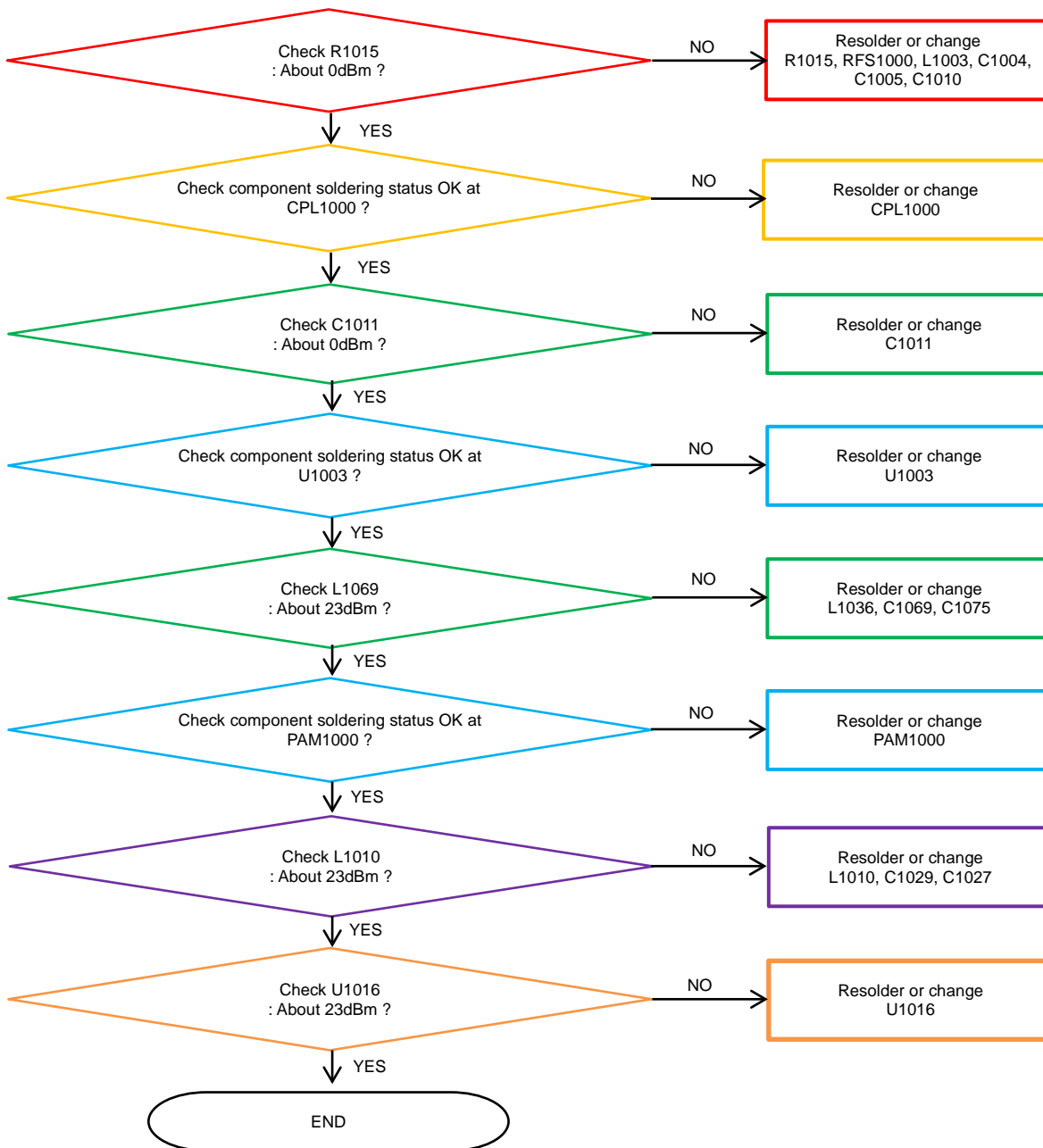
## 8. Level 3 Repair

### 8-4-32. LTE, WCDMA B5 TX



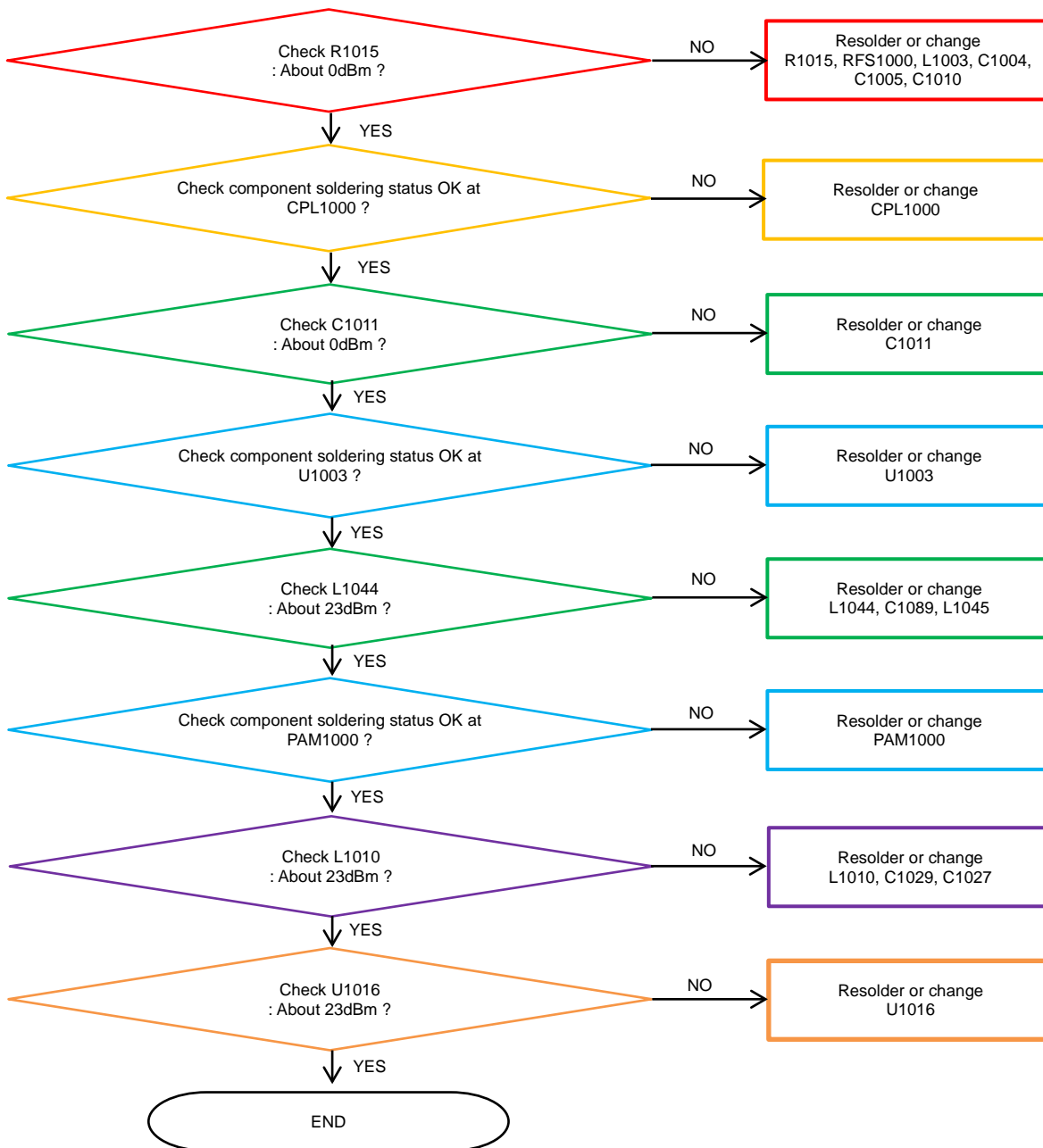
## 8. Level 3 Repair

### 8-4-33. LTE, WCDMA B8 TX



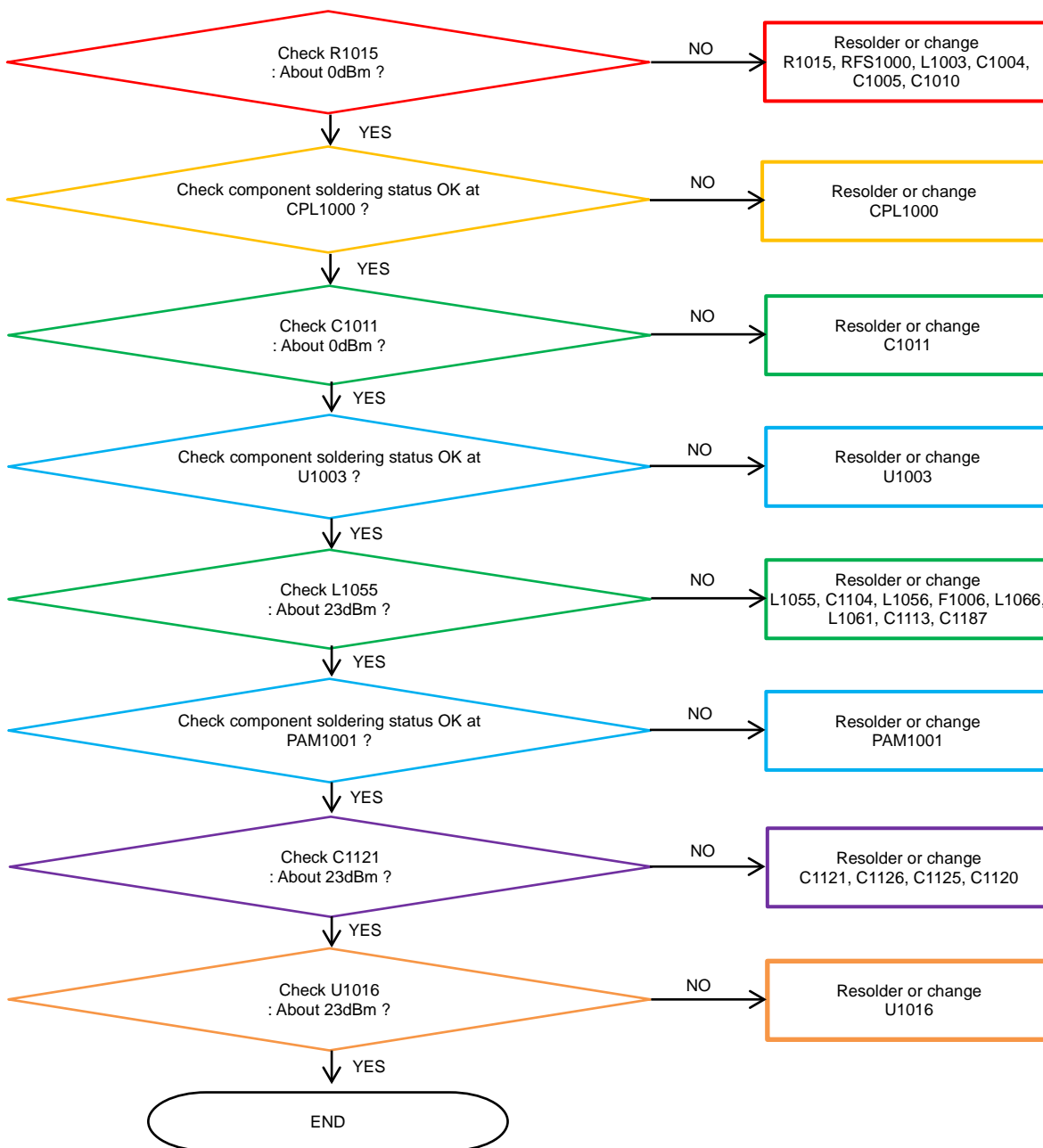
## 8. Level 3 Repair

### 8-4-34. LTE B20 TX



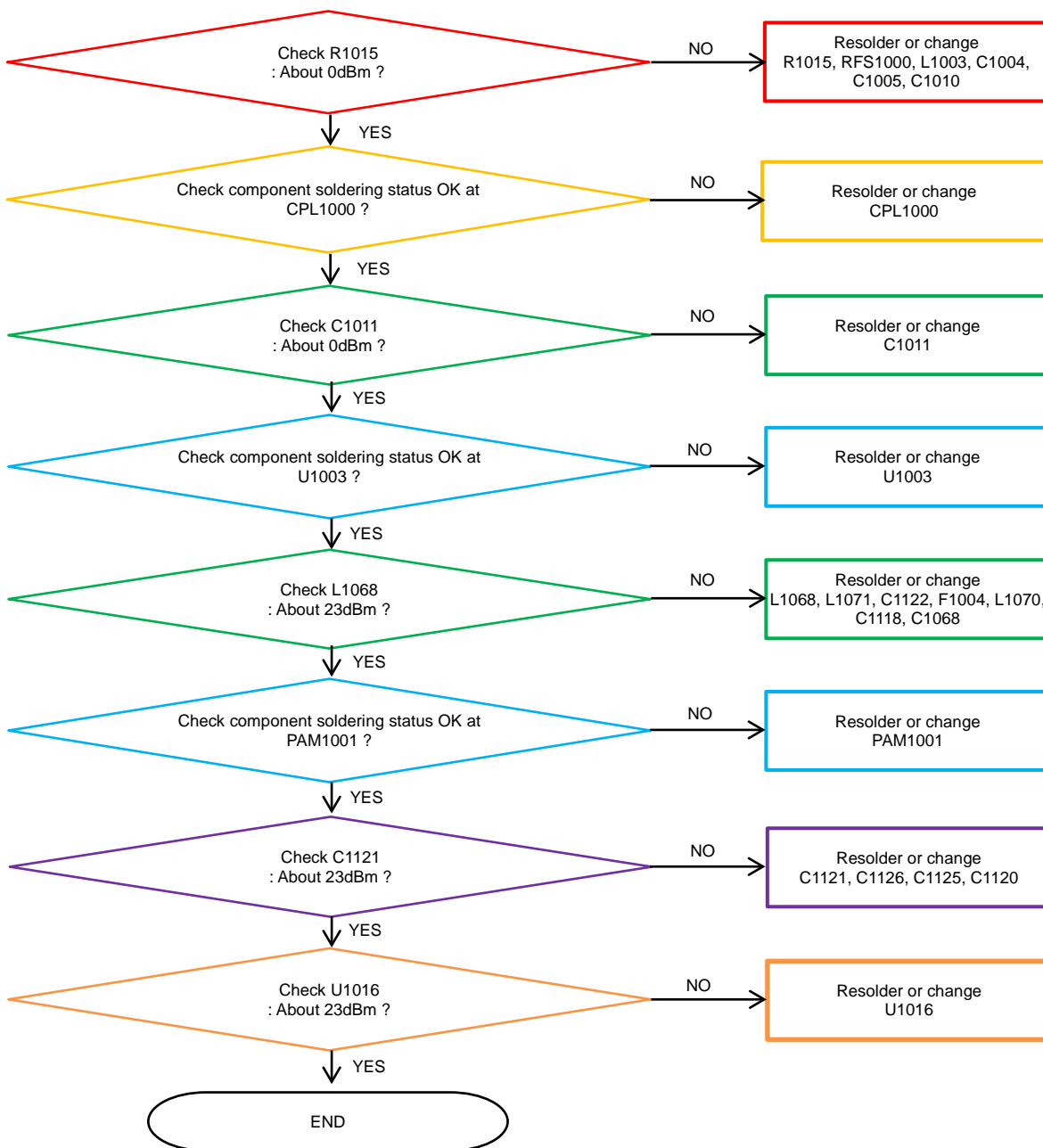
## 8. Level 3 Repair

### 8-4-35. LTE B7 TX [SM-J410F, SM-J410G]



## 8. Level 3 Repair

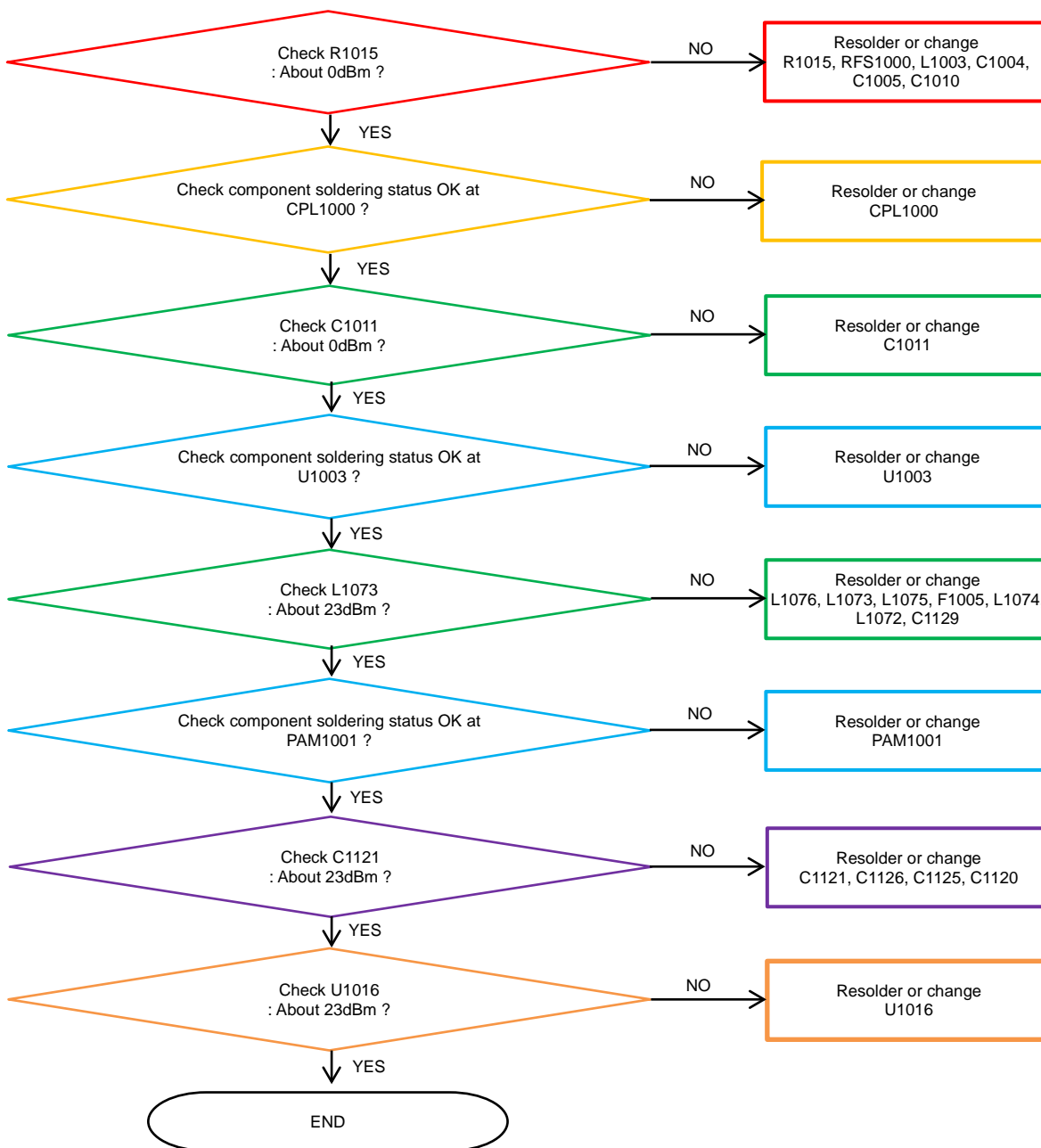
### 8-4-36. LTE B38, 41 TX [SM-J410F, SM-J410G]





## 8. Level 3 Repair

### 8-4-37. LTE B40 TX [SM-J410F, SM-J410G]

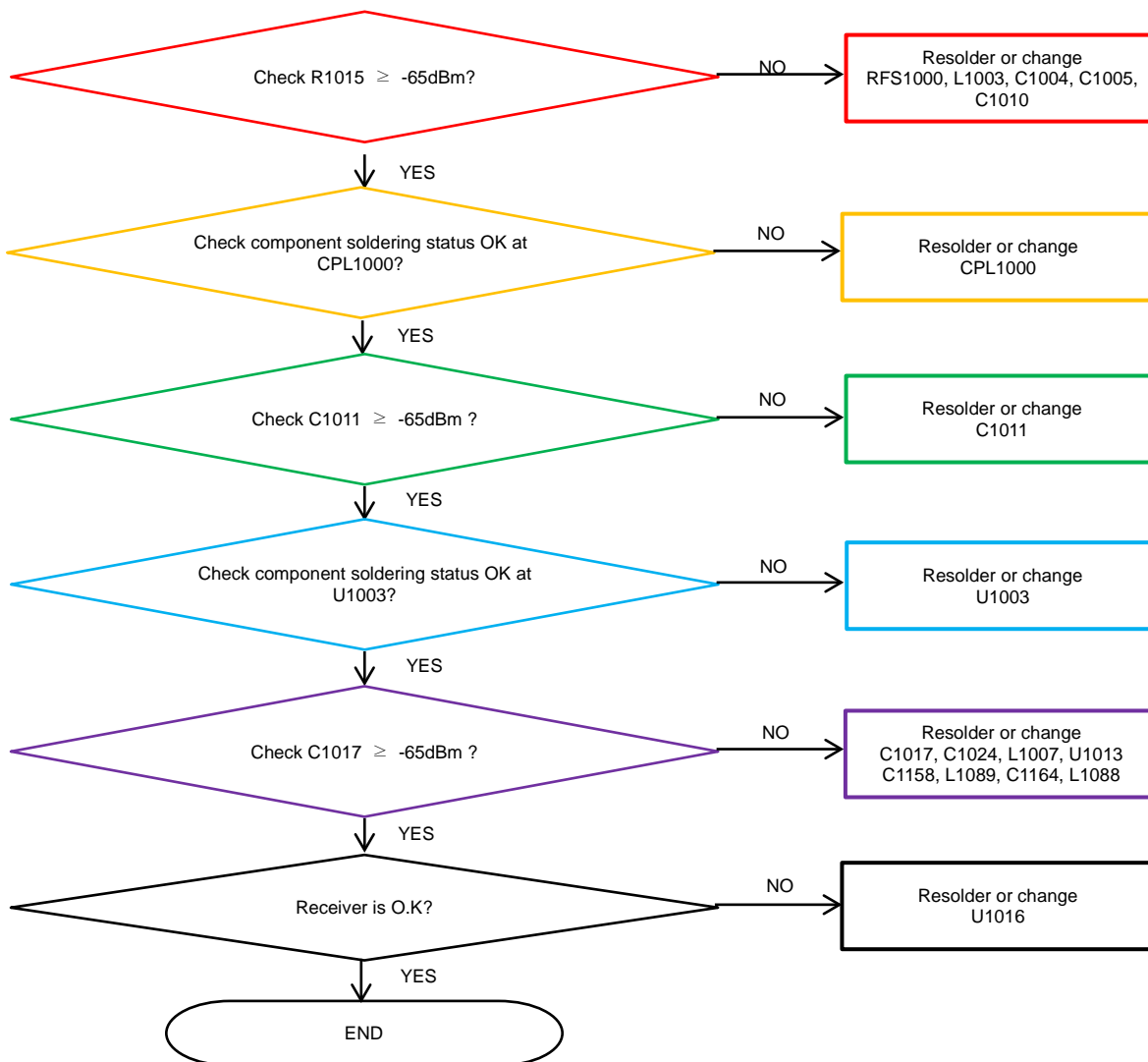


---

## 8. Level 3 Repair

---

### 8-4-38. LTE B1, WCDMA B1 Rx [SM-J410G]

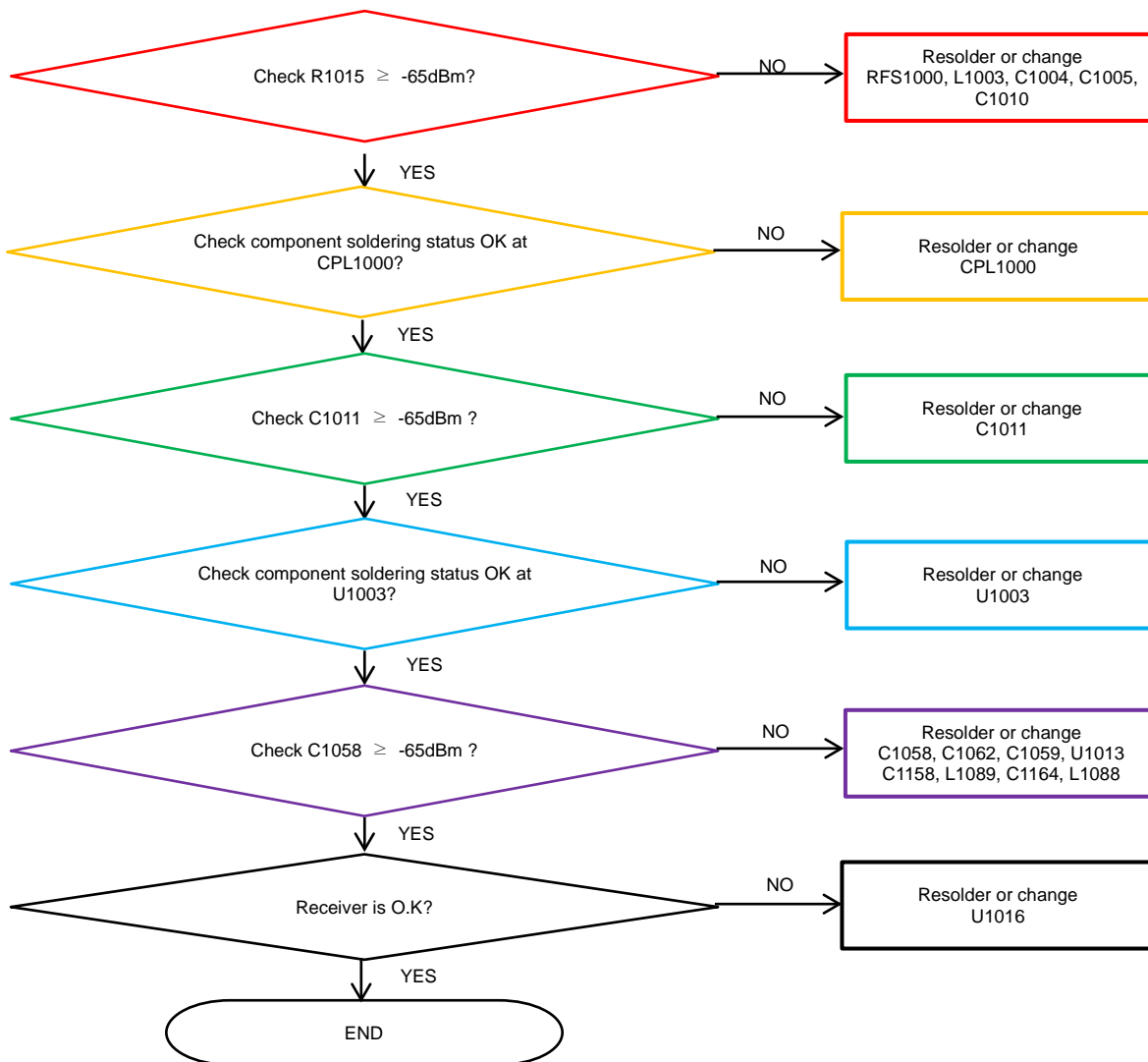


---

## 8. Level 3 Repair

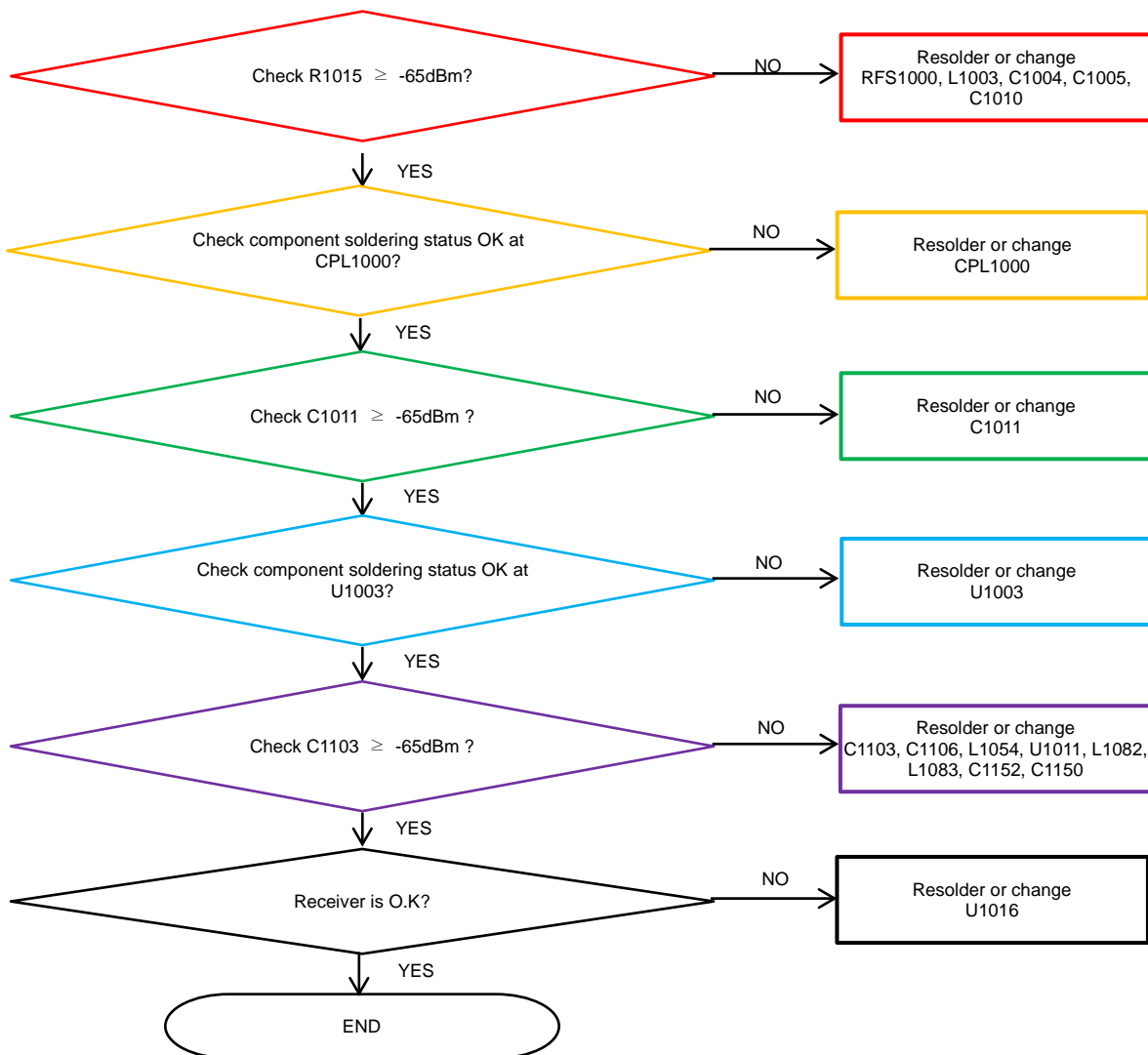
---

### 8-4-39. WCDMA B4, LTE B4, B66 Rx [SM-J410G]



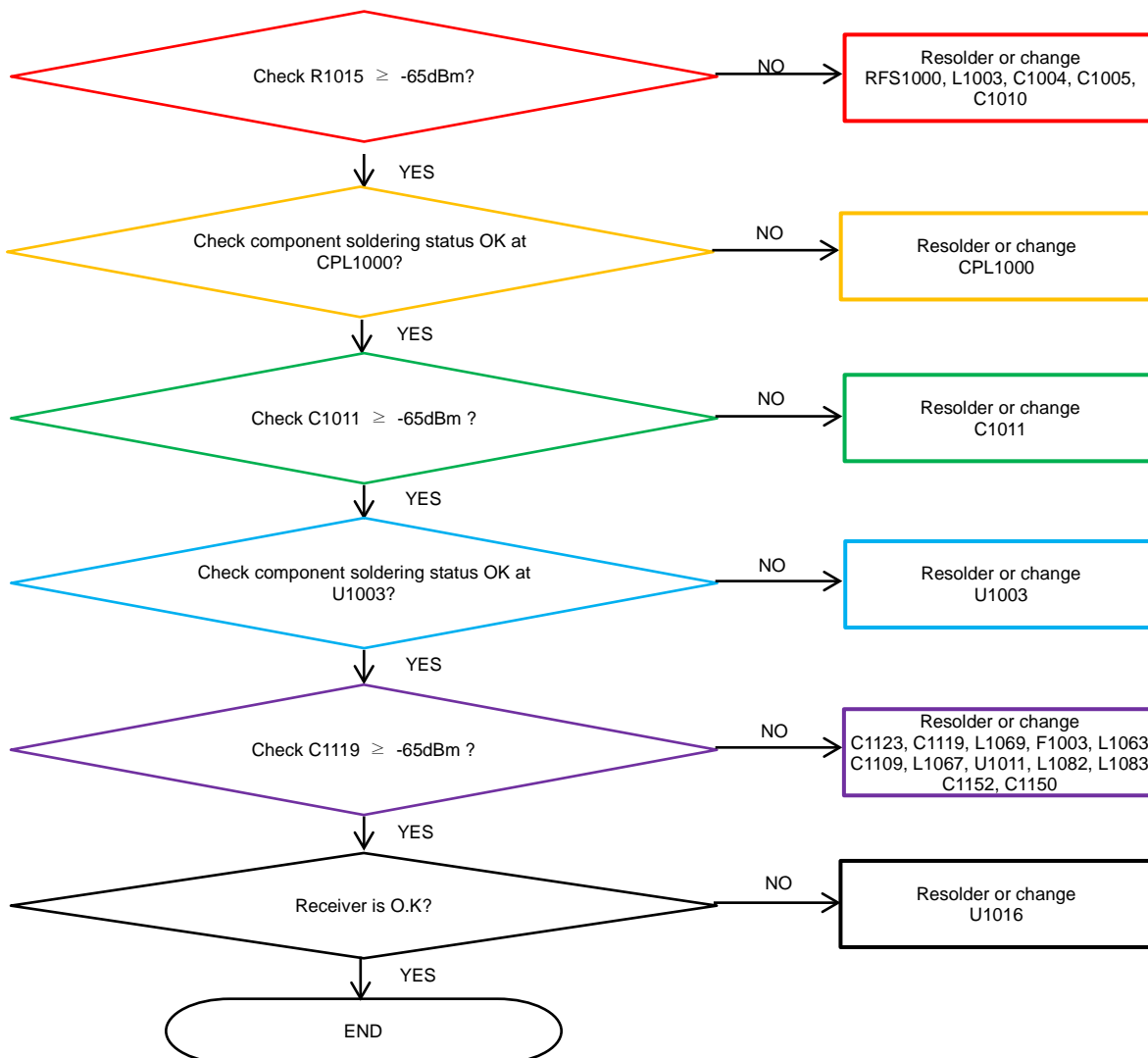
## 8. Level 3 Repair

### 8-4-40. LTE B20 RX [SM-J410G]



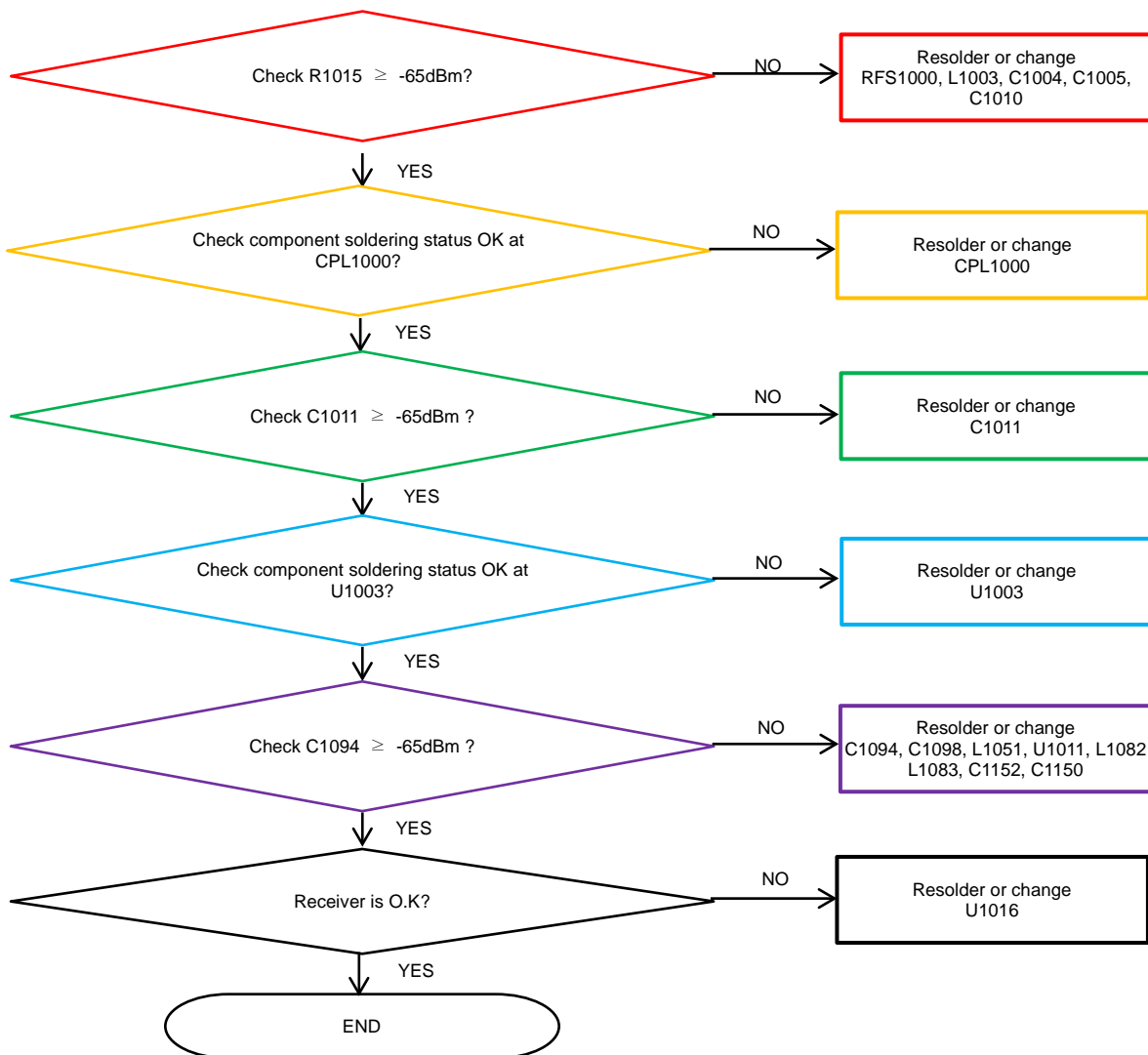
## 8. Level 3 Repair

### 8-4-41. LTE B28 RX [SM-J410G]



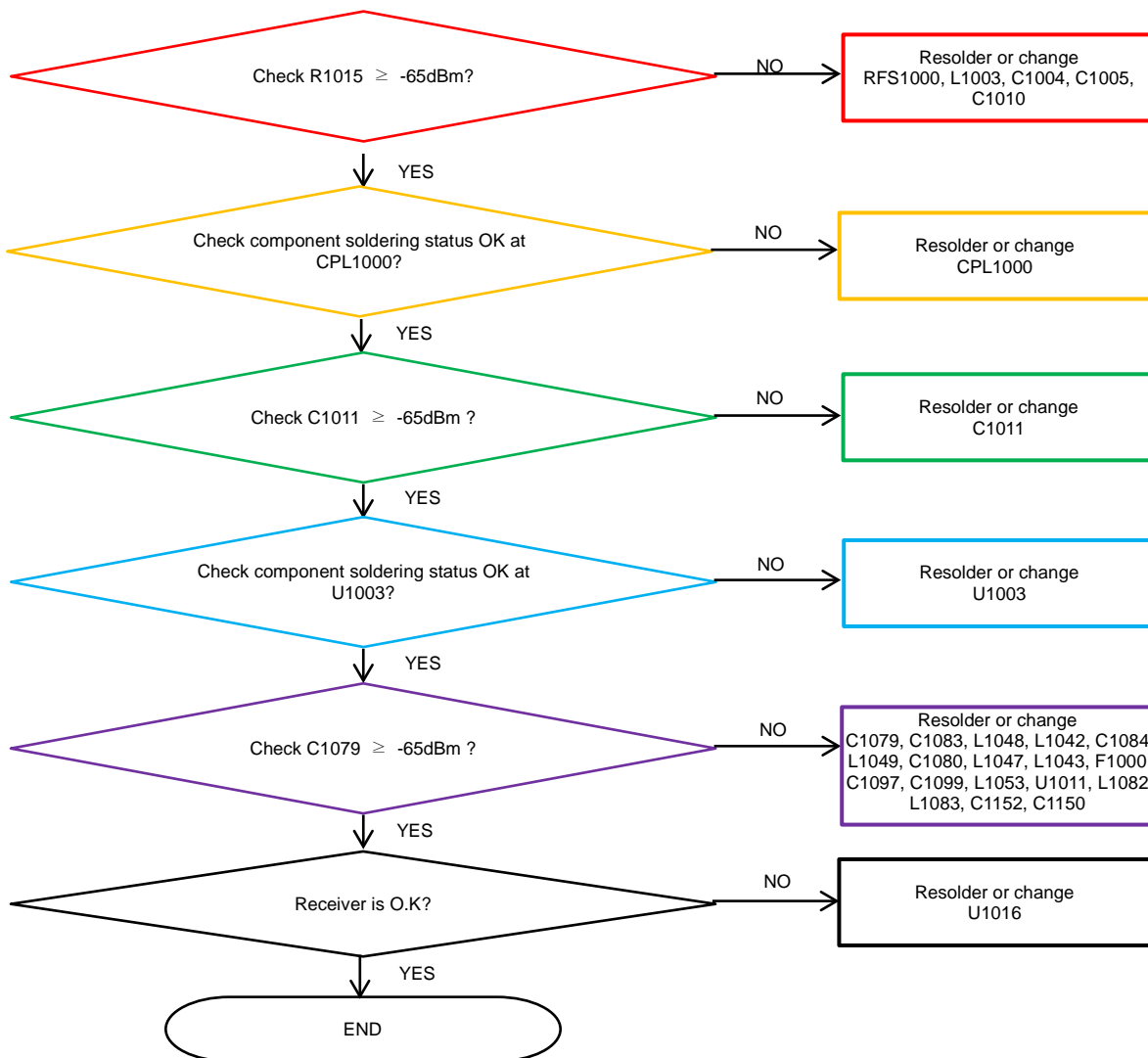
## 8. Level 3 Repair

### 8-4-42. LTE B12, 17 RX [SM-J410G]



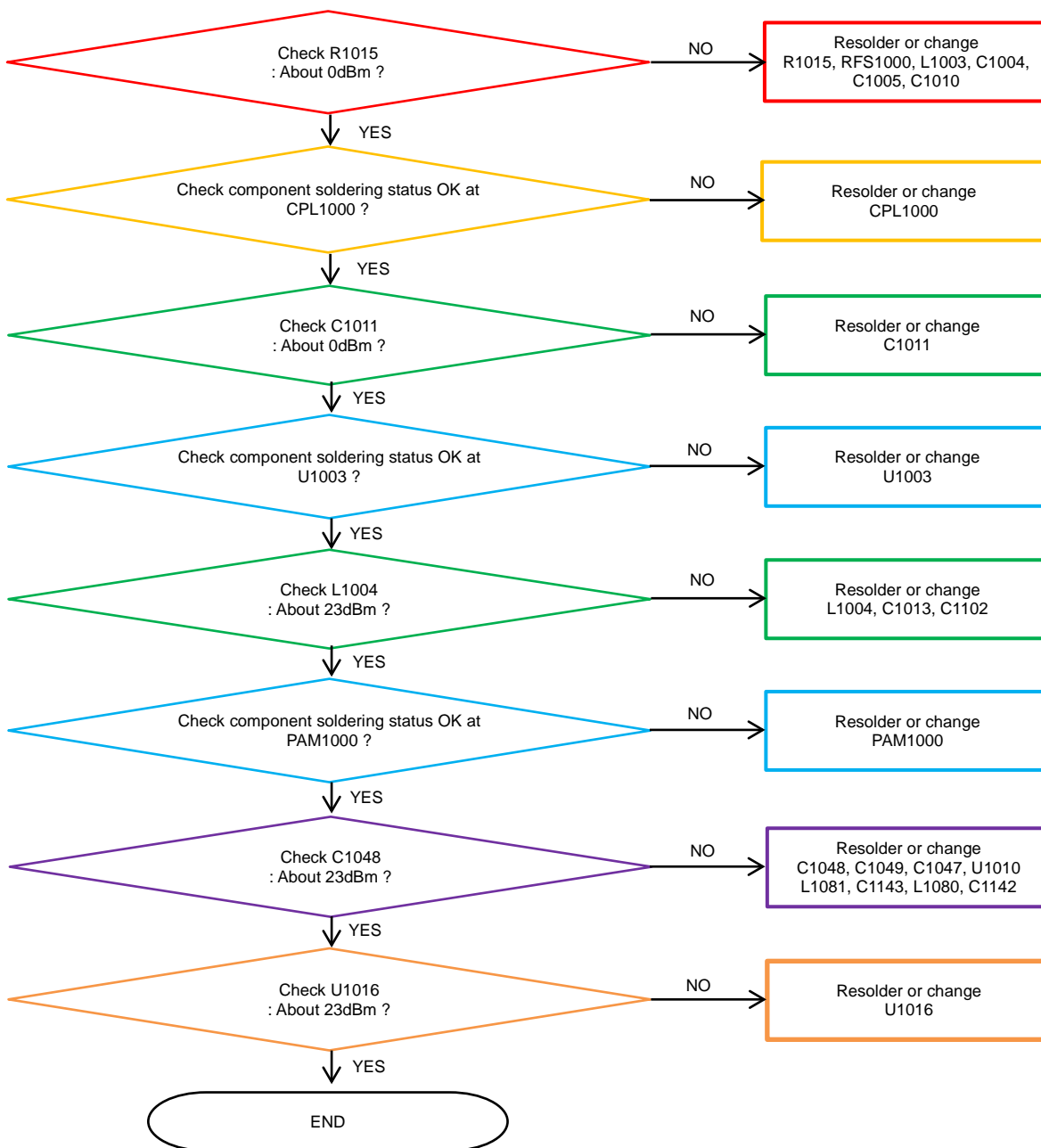
## 8. Level 3 Repair

### 8-4-43. LTE B13 RX [SM-J410G]



## 8. Level 3 Repair

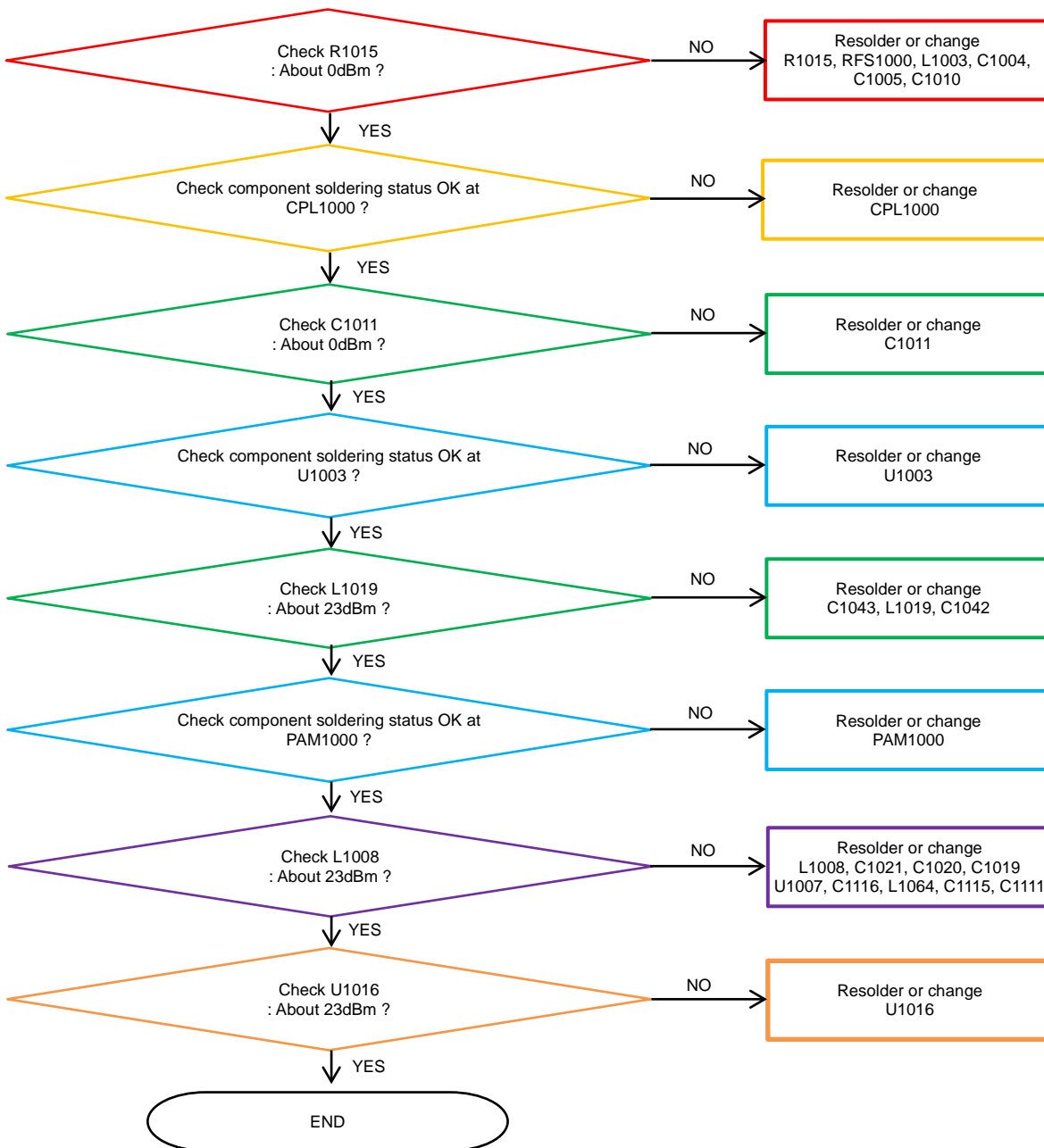
### 8-4-44. GSM 850 / GSM900 TX [SM-J410G]





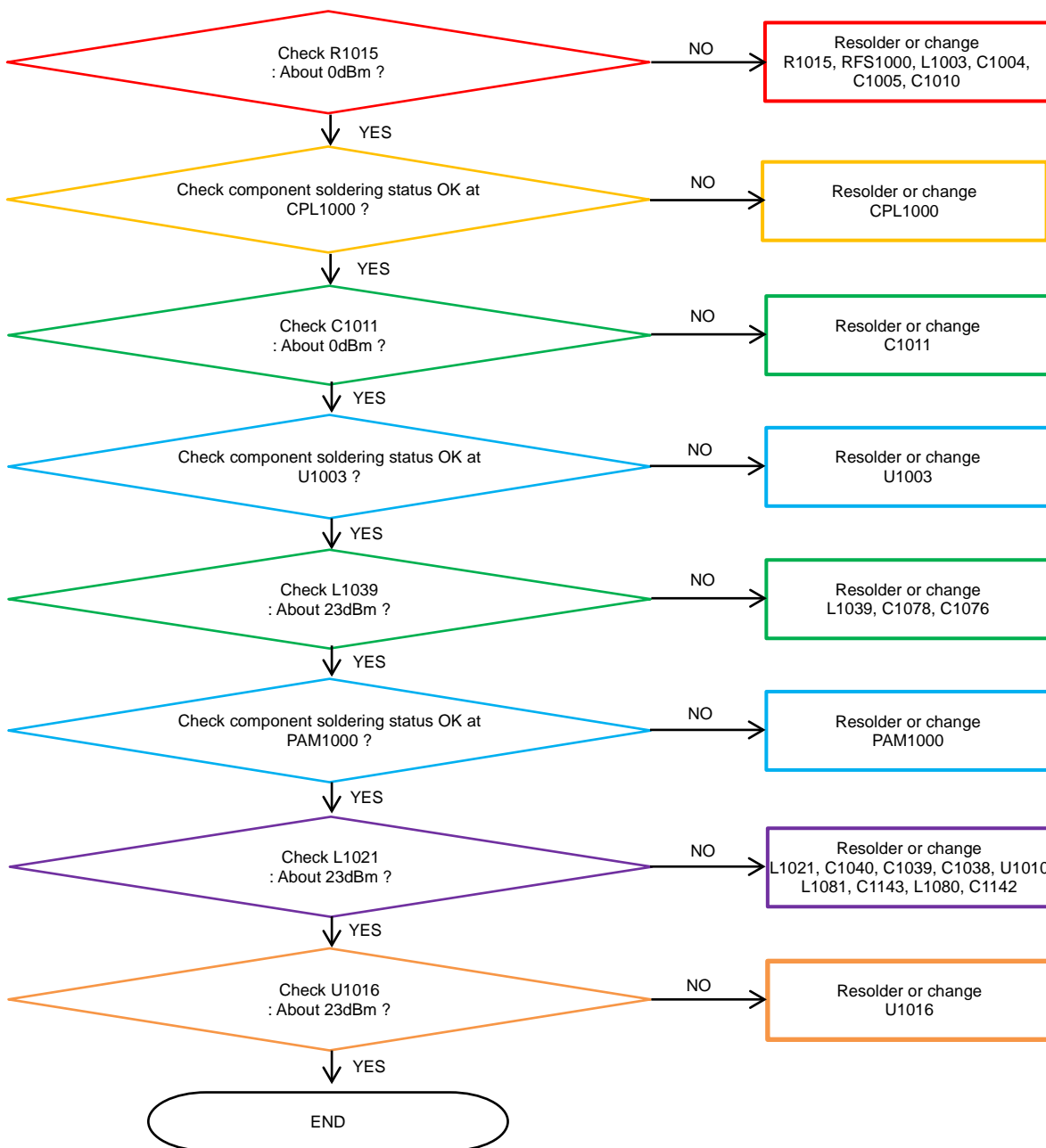
## 8. Level 3 Repair

### 8-4-45. WCDMA B4, LTE B4, B66 TX [SM-J410G]



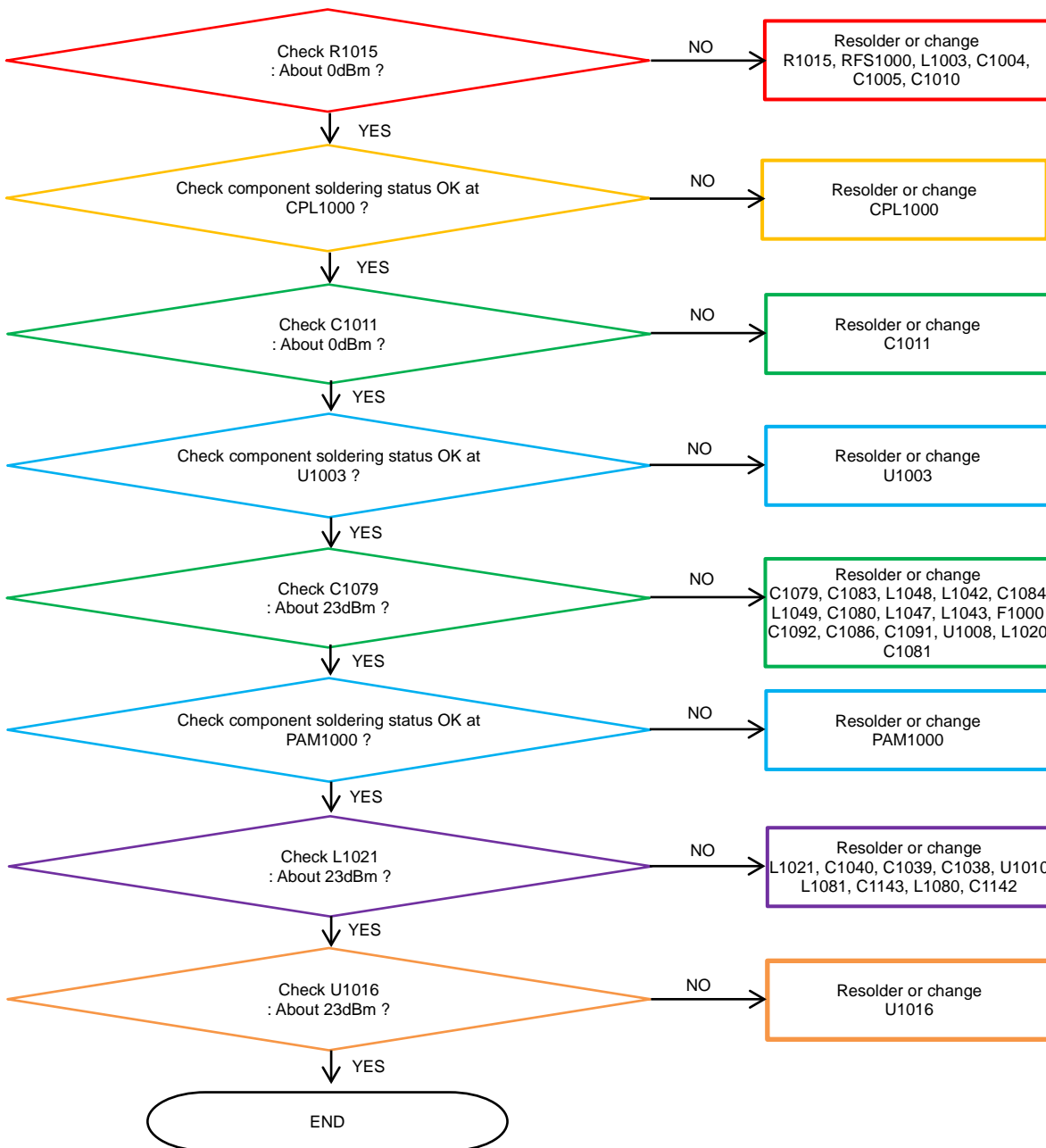
## 8. Level 3 Repair

### 8-4-46. LTE B12, B17 TX [SM-J410G]



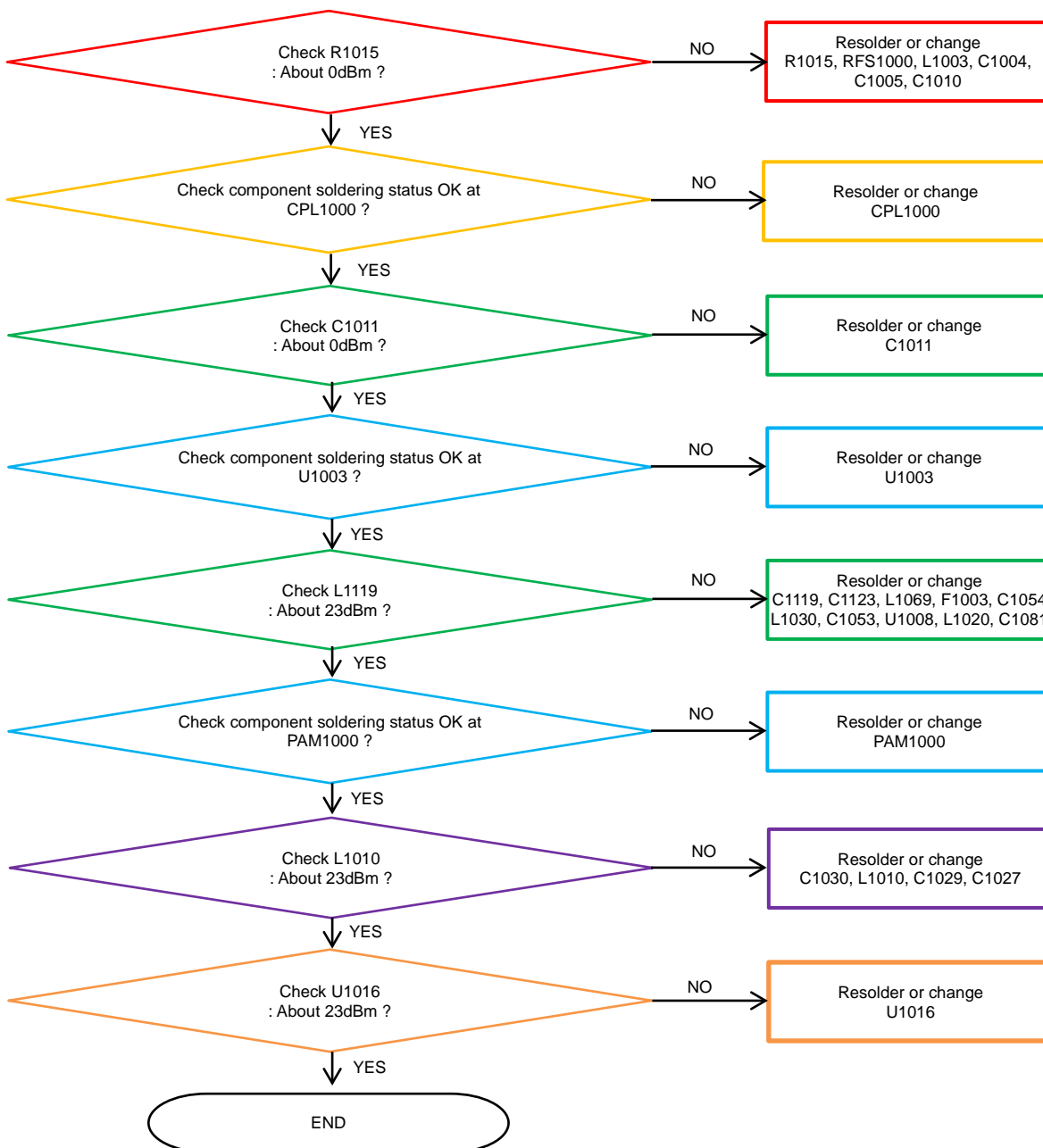
## 8. Level 3 Repair

### 8-4-47. LTE B13 TX [SM-J410G]



## 8. Level 3 Repair

### 8-4-48. LTE B28 TX [SM-J410G]



---

## 9. Reference Abbreviation

---

### Reference Abbreviation

- **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

# SAMSUNG