

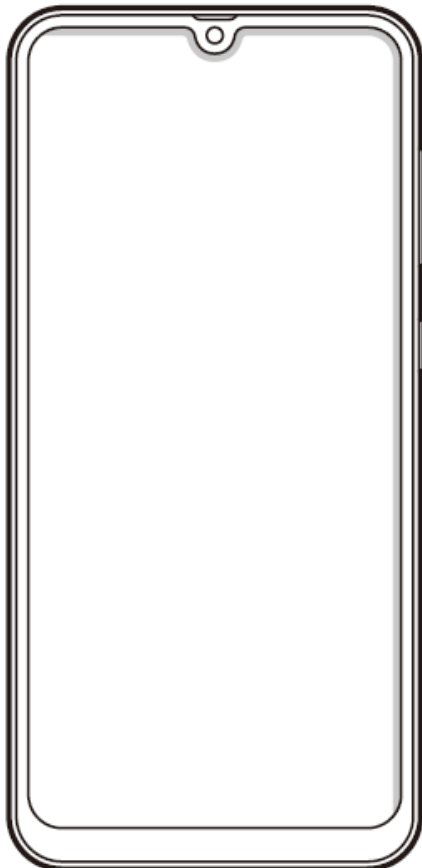
SAMSUNG

Mobile Device
SM-A307FN/G/GT/GN
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 Abbreviation

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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

TX Power Control level	GSM850	TX Power Control level	EGSM900	TX Power Control level	DCS1800	TX Power Control level	PCS1900
5	33±2 dBm	5	33±2 dBm	0	30±3 dBm	0	30±3 dBm
6	31±2 dBm	6	31±2 dBm	1	28±3 dBm	1	28±3 dBm
7	29±2 dBm	7	29±2 dBm	2	26±3 dBm	2	26±3 dBm
8	27±2 dBm	8	27±2 dBm	3	24±3 dBm	3	24±3 dBm
9	25±2 dBm	9	25±2 dBm	4	22±3 dBm	4	22±3 dBm
10	23±2 dBm	10	23±2 dBm	5	20±3 dBm	5	20±3 dBm
11	21±2 dBm	11	21±2 dBm	6	18±3 dBm	6	18±3 dBm
12	19±2 dBm	12	19±2 dBm	7	16±3 dBm	7	16±3 dBm
13	17±2 dBm	13	17±2 dBm	8	14±3 dBm	8	14±3 dBm
14	15±2 dBm	14	15±2 dBm	9	12±4 dBm	9	12±4 dBm
15	13±2 dBm	15	13±2 dBm	10	10±4 dBm	10	10±4 dBm
16	11±3 dBm	16	11±3 dBm	11	8±4 dBm	11	8±4 dBm
17	9±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-A307FN]

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-A307G/GT/ GN]

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-A307FN]

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

2-4-3. LTE General Specification [SM-A307G/GT/ GN]

Item	LTE Band1	LTE Band2	LTE Band3	LTE Band4	LTE Band5
Freq. Band[MHz]	1920~1980	1850~1910	1710~1785	1710~1755	824~849
Uplink/Downlink	2110~2170	1930~1990	1805~1880	2110~2155	869~894
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
Tx/Rx spacing (MHz)	190	80	95	400	45
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
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	-94.3	-93.3	-96.3	-94.3

Item	LTE Band7	LTE Band8	LTE Band12	LTE Band13	LTE Band17
Freq. Band[MHz]	2500~2570	880~915	699~716	777~787	704~716
Uplink/Downlink	2620~2690	925~960	729~746	746~756	734~746
ARFCN range	UL:20750~21449 DL:2750~3449	UL:21450~21799 DL:3450~3799	UL:23010~23179 DL:5010~5179	UL:23180~23279 DL:5180~5279	UL:23730~23849 DL:5730~5849
Tx/Rx spacing (MHz)	120	45	30	-31	30
Channel Bandwidth (MHz)	5/10/15/20	1.4/3/5/10	1.4/3/5/10	1.4/3/5/10	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)	-94.3	-93.3	-93.3	-93.3	-93.3

2. Specification

Item	LTE Band28	LTE Band38	LTE Band40	LTE Band41	LTE Band66
Freq. Band[MHz] Uplink/Downlink	703~748 758~803	2570~2620	2300~2400	2496~2690	1710~1780 2110~2200
ARFCN range	UL:27210~27659 DL:9210~9659	UL/DL:37750 ~ 38249	UL/DL:38650 ~ 39649	UL/DL:39650 ~ 41589	UL:131972~132671 DL:66436~67335
Tx/Rx spacing (MHz)	55	0	0	0	400
Channel Bandwidth (MHz)	3/5/10/15/20	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)	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)	-94.8	-96.3	-96.3	-94.3	-95.8

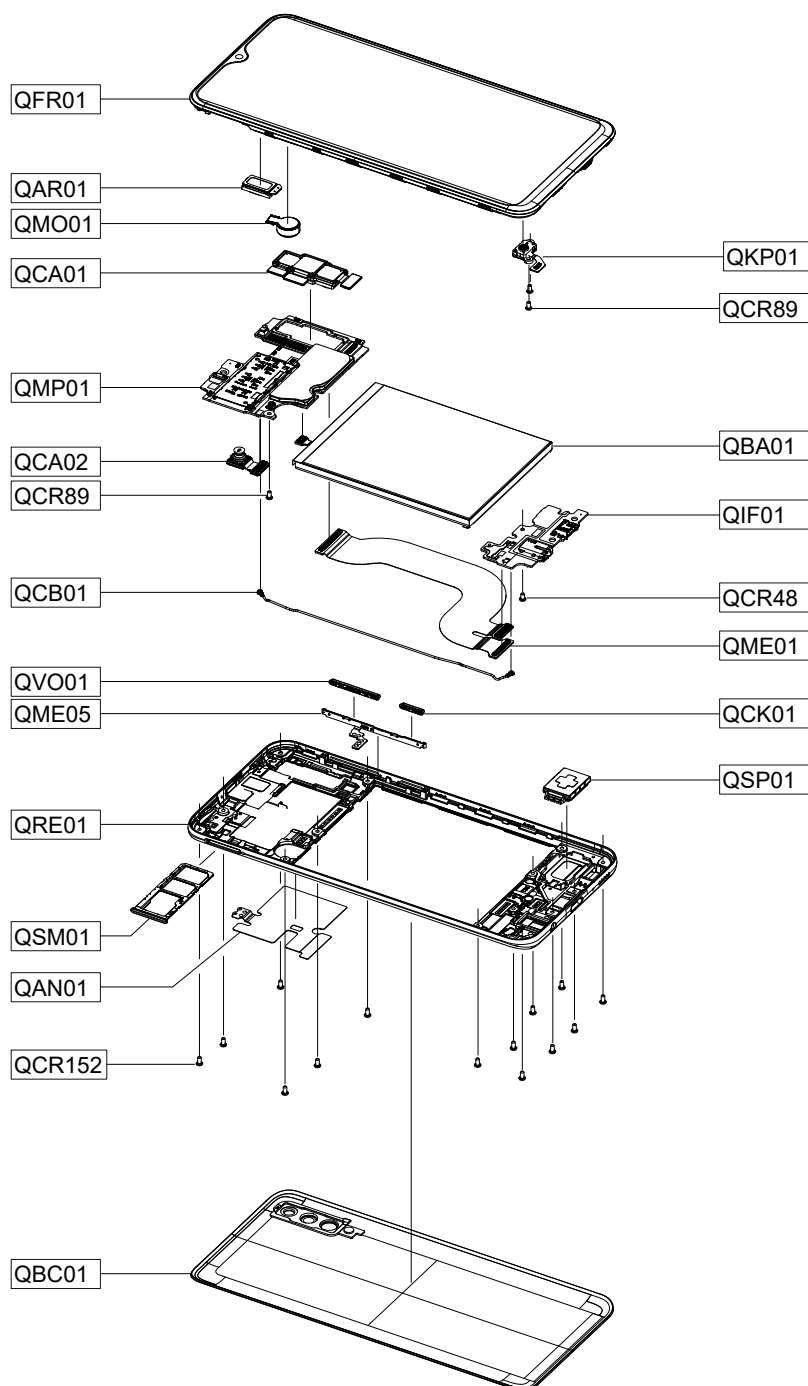
3. Product Function

Main Function

Item		Description
OS		Android P OS V9.0
SM-A307FN RF		GSM850 / GSM900 / DCS1800 / PCS1900 WCDMA: B1/ B2/ B5/ B8 LTE: (FDD) B1/ B3/ B5/ B7/ B8/ B20 (TDD) B38/ B40/ B41
SM-A307G/GT/GN RF		GSM850 / GSM900 / DCS1800 / PCS1900 WCDMA: B1/ B2/ B4/ B5/ B8 LTE: (FDD) B1/ B2/ B3/ B4/ B5/ B7/ B8/ B12/ B13/ B17/ B28 / B66 (TDD) B38/ B40/ B41
Battery		4,000mAh(Typ) 3,900mAh(Min)
Base Band		6.38" HD+ Octa core (1.8GHz / 1.6Ghz)
Other RF		GPS, Glonass, Beidou, Galileo, BT5.0, USB 2.0, WIFI 802.11 a/b/g/n/ac 2.4G+5GHz, FM Radio, NFC(SM-A307FN/GN)
Camera		Rear : 25MP+8MP+5MP, Front : 16.0MP
LCD		6,4" On-Cell Touch AMOLED, 2340 x 1080 (FHD+)
SM-A307FN(CIS/MEA) /G	RAM	3GB
	ROM	32GB
SM-A307FN(SWA/MEA) /GT/GN	RAM	4GB
	ROM	64GB
Sensor		Accelerometer, Fingerprint Sensor, Gyro Sensor, Gemagnetic Sensor Hall Sensor, Light Sensor, Proximity Sensor
Accessory		Charger: 9V/1.67A and 5V/2.0A AFC charging Data cable: 3.0pi, 0.8m(USB-C) Ear phone: 3.5pi, 4pin

4. Exploded View and Parts List

4-1. Cellular phone Exploded View



※ SVC REPAIR TAPE
QRT01

5. MAIN Electrical Parts List

[SM-A307FN]

Parts Code	Design Loc	Description
0401-001110	D5001	DIODE
0404-001250	D5000	DIODE
0406-001561	ZD5002,ZD5003,ZD6000	DIODE
0406-001561	ZD6001,ZD6005	DIODE
0406-001592	ZD5004,ZD6013	DIODE
0406-001808	D6000	DIODE
0406-001809	ZD6021,ZD6022	DIODE
0406-001829	ZD1000,ZD5001	DIODE
0505-003618	Q5000	DIODE
0601-003768	LED5000	LED
1001-001970	U1004	IC
1001-002042	U1002,U2003	IC
1001-002063	U1003	IC
1001-002065	U3002	IC
1003-002802	U2004	IC
1009-001076	C3075	IC
1105-002915	UCP400UP	MEMORY
1107-002639	UME5000	MEMORY
1201-003869	U3007	IC
1201-004029	U1007	IC
1201-004209	U1005	IC
1201-004237	PAM1000	IC
1201-004245	U6000	IC
1203-008249	U3011,U5007	IC
1203-008322	U7001	IC
1203-008693	U2001	IC
1203-008865	U7006	IC
1203-008867	U3000,U3013,U7003	IC
1203-008872	U3015,U7002,U7004	IC
1203-008989	U7000	IC
1203-009211	U5002	IC
1203-009213	U5003	IC
1203-009220	U7007	IC
1203-009221	U7005	IC
1203-009320	U6002	IC
1205-005767	U2002	IC
1205-005860	U3003	IC

5. MAIN Electrical Parts List

1205-006074	UCP400	IC
1205-006178	U3004	IC
1209-002413	U3014	IC
1209-002450	U3012	IC
1209-002555	U1008	IC
1209-002628	U3009	IC
1209-002629	U3016	IC
1404-001724	TH1000,TH4000,VR5000	THERMISTOR
1405-001429	V7000	THERMISTOR
2007-003015	R6034,R6035	R-CHIP
2007-007190	R6003,R6004	R-CHIP
2007-007317	R4231	R-CHIP
2007-007741	R2001,R2002,R3003	R-CHIP
2007-007741	R4012,R4015,R4016	R-CHIP
2007-007741	R4027,R4031,R5001	R-CHIP
2007-007741	R5027,R6002	R-CHIP
2007-007798	R6025	R-CHIP
2007-007942	R5111	R-CHIP
2007-007946	R5112	R-CHIP
2007-008419	R4041,R5011,R5023	R-CHIP
2007-008483	R5020,R5021,R5022	R-CHIP
2007-008483	R5024,R5025	R-CHIP
2007-008531	L7003,R5010,R5015	R-CHIP
2007-008531	R7000,R7001	R-CHIP
2007-008587	R1011	R-CHIP
2007-008588	R1004,R4006,R4008	R-CHIP
2007-008588	R4011,R4017,R4018	R-CHIP
2007-008588	R4020,R4021,R4022	R-CHIP
2007-008588	R4023,R4024,R4026	R-CHIP
2007-008588	R4030,R4032,R4033	R-CHIP
2007-008588	R4034,R4035,R4036	R-CHIP
2007-008588	R4037,R4107,R4108	R-CHIP
2007-008588	R4228,R6028	R-CHIP
2007-008800	R6012	R-CHIP
2007-009111	R3005,R5029	R-CHIP
2007-009157	R1007,R4001,R4002	R-CHIP
2007-009157	R4003,R4010,R4047	R-CHIP
2007-009157	R5009,R5105,R6000	R-CHIP
2007-009157	R6009,R6020	R-CHIP

5. MAIN Electrical Parts List

2007-009171	R5008,R5028	R-CHIP
2007-009212	R6006	R-CHIP
2007-009352	R5019,R6001	R-CHIP
2007-009408	R6007	R-CHIP
2007-009410	R6015,R6038	R-CHIP
2007-009766	R3000	R-CHIP
2007-009793	R6014	R-CHIP
2007-009801	R5007	R-CHIP
2007-009805	C1091,R1000,R1001	R-CHIP
2007-009805	R1002,R1003,R2000	R-CHIP
2007-009920	R4004,R4005,R4007	R-CHIP
2007-009920	R4009	R-CHIP
2007-009969	R3001,R3002,R6008	R-CHIP
2007-010685	R5000	R-CHIP
2007-011043	R4019,R4200,R4201	R-CHIP
2007-011043	R4202,R4203	R-CHIP
2007-011532	R6010	R-CHIP
2007-011648	L1081,L1082,R2003	R-CHIP
2007-011648	R6016	R-CHIP
2007-012068	R5002	R-CHIP
2203-000233	C3038	C-CER,CHIP
2203-000489	C5173,C5174	C-CER,CHIP
2203-001072	C3108	C-CER,CHIP
2203-001239	C3034,C3041	C-CER,CHIP
2203-005344	C5178	C-CER,CHIP
2203-005682	C1015,C1017,C1021	C-CER,CHIP
2203-005682	C1022,C1060,C5117	C-CER,CHIP
2203-005682	C5123,C5165,C7300	C-CER,CHIP
2203-005682	L2011	C-CER,CHIP
2203-005725	C1063,C3033,C7004	C-CER,CHIP
2203-005725	C7299	C-CER,CHIP
2203-005729	C6000,C6004,C6010	C-CER,CHIP
2203-005729	C6015,C6018,C6019	C-CER,CHIP
2203-005731	C2049,C6045,C6049	C-CER,CHIP
2203-005732	C5049,C6016,C6017	C-CER,CHIP
2203-005732	C6022,C6028	C-CER,CHIP
2203-005734	C3057,L2000	C-CER,CHIP
2203-005736	C1000,C1009,C1010	C-CER,CHIP
2203-005736	C1014,C1018,C1020	C-CER,CHIP

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5. MAIN Electrical Parts List

2203-005736	C1048,C1052,C1080	C-CER,CHIP
2203-005736	C1083,C1084,C1085	C-CER,CHIP
2203-005736	C1137,C1138,C1140	C-CER,CHIP
2203-005736	C1154,C1155,C2040	C-CER,CHIP
2203-005736	C2043,C2047,C2062	C-CER,CHIP
2203-005736	C2071,C2075,C3003	C-CER,CHIP
2203-005736	C3014,C3029,C6058	C-CER,CHIP
2203-005736	L1044,L3007	C-CER,CHIP
2203-005740	C2010	C-CER,CHIP
2203-005777	C1061,C1077,C1081	C-CER,CHIP
2203-005777	C1120,C1143,L2030	C-CER,CHIP
2203-005789	C1056,C1062,C1065	C-CER,CHIP
2203-005789	C1117,C1126,C1142	C-CER,CHIP
2203-005789	C1147,C2004,C2069	C-CER,CHIP
2203-005789	L1010,L1041,L1055	C-CER,CHIP
2203-005789	L1077	C-CER,CHIP
2203-005806	C1011,C2000	C-CER,CHIP
2203-006121	C6014	C-CER,CHIP
2203-006187	C1087,C5137	C-CER,CHIP
2203-006194	C5176	C-CER,CHIP
2203-006305	C1054,C3025	C-CER,CHIP
2203-006318	C1116	C-CER,CHIP
2203-006379	C6042	C-CER,CHIP
2203-006400	C2045,C3035,C3037	C-CER,CHIP
2203-006400	C3039,C3105,C4013	C-CER,CHIP
2203-006400	C6027	C-CER,CHIP
2203-006410	L1059	C-CER,CHIP
2203-006423	C2033,C3066,C3078	C-CER,CHIP
2203-006423	C3098,C3099,C4005	C-CER,CHIP
2203-006423	C4012,C5120,C5141	C-CER,CHIP
2203-006423	C5160,C5172,C5175	C-CER,CHIP
2203-006423	C6048,C7298	C-CER,CHIP
2203-006556	C1053,C1068,C1074	C-CER,CHIP
2203-006556	C1099,C1139,C5045	C-CER,CHIP
2203-006604	C1093,C3062,C5138	C-CER,CHIP
2203-006604	L1036	C-CER,CHIP
2203-006648	C6021	C-CER,CHIP
2203-006665	L1053	C-CER,CHIP
2203-006668	C4064	C-CER,CHIP

5. MAIN Electrical Parts List

2203-006674	C1024,C2063,L1037	C-CER,CHIP
2203-006839	C1012,C1131,C2001	C-CER,CHIP
2203-006839	C4035,C5092,C5095	C-CER,CHIP
2203-006839	C5135	C-CER,CHIP
2203-006846	C4204,C4205,C4206	C-CER,CHIP
2203-006846	C4207	C-CER,CHIP
2203-006896	C1026	C-CER,CHIP
2203-006979	C2022,C2025,C2027	C-CER,CHIP
2203-006979	C2028,C2032,C2035	C-CER,CHIP
2203-006979	C2036,C2038,C2048	C-CER,CHIP
2203-006979	C2050	C-CER,CHIP
2203-007194	C2006,C3067,C7007	C-CER,CHIP
2203-007210	C4022,C4025,C4050	C-CER,CHIP
2203-007210	C4051,C4068,C4087	C-CER,CHIP
2203-007210	C5125,C5126	C-CER,CHIP
2203-007235	C5036,C5038	C-CER,CHIP
2203-007271	C5083,C5097	C-CER,CHIP
2203-007279	C7147	C-CER,CHIP
2203-007317	C3100,C4039,C4078	C-CER,CHIP
2203-007317	C7000,C7006,C7018	C-CER,CHIP
2203-007317	C7031,C7033,C7035	C-CER,CHIP
2203-007317	C7296	C-CER,CHIP
2203-007391	C2030	C-CER,CHIP
2203-007392	C5070	C-CER,CHIP
2203-007393	C1007,C1075,C2012	C-CER,CHIP
2203-007393	C3028,C3101,C3106	C-CER,CHIP
2203-007393	C3107,C4011,C4023	C-CER,CHIP
2203-007393	C4024,C4074,C5032	C-CER,CHIP
2203-007393	C5037,C5040,C5043	C-CER,CHIP
2203-007393	C5048,C5051,C5054	C-CER,CHIP
2203-007393	C5065,C5066,C5071	C-CER,CHIP
2203-007393	C5076,C5084,C5087	C-CER,CHIP
2203-007393	C5096,C5118,C5124	C-CER,CHIP
2203-007393	C5127,C5136,C5168	C-CER,CHIP
2203-007393	C5169,C5170,C5171	C-CER,CHIP
2203-007450	C6003	C-CER,CHIP
2203-007456	C5086,C6032	C-CER,CHIP
2203-007474	C2024,C2029,C2031	C-CER,CHIP
2203-007474	C2039,C4047,C4049	C-CER,CHIP

5. MAIN Electrical Parts List

2203-007474	C4069,C5056,C7027	C-CER,CHIP
2203-007474	C7028	C-CER,CHIP
2203-007796	C2011,C2023,C2026	C-CER,CHIP
2203-007796	C2034,C2037,C3000	C-CER,CHIP
2203-007796	C3002,C3008,C3013	C-CER,CHIP
2203-007796	C3018,C3022,C3031	C-CER,CHIP
2203-007796	C3046,C3084,C3093	C-CER,CHIP
2203-007796	C3094,C3096,C3097	C-CER,CHIP
2203-007796	C3102,C4002,C4006	C-CER,CHIP
2203-007796	C4007,C4008,C4009	C-CER,CHIP
2203-007796	C4010,C4014,C4015	C-CER,CHIP
2203-007796	C4018,C4019,C4020	C-CER,CHIP
2203-007796	C4021,C4026,C4029	C-CER,CHIP
2203-007796	C4030,C4033,C4034	C-CER,CHIP
2203-007796	C4037,C4038,C4044	C-CER,CHIP
2203-007796	C4045,C4052,C4053	C-CER,CHIP
2203-007796	C4054,C4055,C4056	C-CER,CHIP
2203-007796	C4062,C4063,C4065	C-CER,CHIP
2203-007796	C4066,C4067,C4070	C-CER,CHIP
2203-007796	C4071,C4072,C4073	C-CER,CHIP
2203-007796	C4075,C4076,C4077	C-CER,CHIP
2203-007796	C4079,C4080,C4081	C-CER,CHIP
2203-007796	C4082,C4083,C4088	C-CER,CHIP
2203-007796	C4089,C4090,C4091	C-CER,CHIP
2203-007796	C4092,C4093,C4094	C-CER,CHIP
2203-007796	C5008,C5009,C5013	C-CER,CHIP
2203-007796	C5015,C5016,C5017	C-CER,CHIP
2203-007796	C5018,C5019,C5020	C-CER,CHIP
2203-007796	C5024,C5025,C5026	C-CER,CHIP
2203-007796	C5030,C5073,C5085	C-CER,CHIP
2203-007796	C5093,C5101,C5102	C-CER,CHIP
2203-007796	C5104,C5107,C5108	C-CER,CHIP
2203-007796	C5110,C5128,C5134	C-CER,CHIP
2203-007796	C5166,C6002,C6020	C-CER,CHIP
2203-007796	C6023,C6024,C7001	C-CER,CHIP
2203-007796	C7005,C7011,C7013	C-CER,CHIP
2203-007796	C7015,C7020,C7022	C-CER,CHIP
2203-007796	C7037,C7038,C7039	C-CER,CHIP
2203-007796	C7287,C7293,C7294	C-CER,CHIP

5. MAIN Electrical Parts List

2203-007796	C7295,C7297,U4001	C-CER,CHIP
2203-008158	C5079	C-CER,CHIP
2203-008242	C2058,C3005,C3016	C-CER,CHIP
2203-008242	C4001,C4003,C4004	C-CER,CHIP
2203-008242	C4017,C4043,C5000	C-CER,CHIP
2203-008242	C5002,C5004,C5007	C-CER,CHIP
2203-008242	C5011,C5012,C5021	C-CER,CHIP
2203-008242	C5022,C5023,C5027	C-CER,CHIP
2203-008242	C6005	C-CER,CHIP
2203-008394	C3058,L1003	C-CER,CHIP
2203-008654	C6031	C-CER,CHIP
2203-008860	C2057,C3006,C3092	C-CER,CHIP
2203-008860	C3095,C3103,C3104	C-CER,CHIP
2203-008860	C5028,C5100,C5121	C-CER,CHIP
2203-008860	C5133,C6006,C6008	C-CER,CHIP
2203-008860	C6012,C6013,C7016	C-CER,CHIP
2203-008860	C7032,C7040,C7041	C-CER,CHIP
2203-008860	C7042	C-CER,CHIP
2203-008876	C1013,C1069,C1071	C-CER,CHIP
2203-008876	C1098,C1105,C3011	C-CER,CHIP
2203-008876	C5075,C5098,C5119	C-CER,CHIP
2203-008876	C6009,C6025,C6029	C-CER,CHIP
2203-008876	C7034	C-CER,CHIP
2203-009167	C3036,C3040	C-CER,CHIP
2203-009328	C4060,C4061,C4086	C-CER,CHIP
2203-009328	C5039,C5041,C5042	C-CER,CHIP
2203-009328	C5047,C5052,C5060	C-CER,CHIP
2203-009328	C5063,C5074	C-CER,CHIP
2203-009537	C5003	C-CER,CHIP
2203-009618	C5069,C5077,C6001	C-CER,CHIP
2203-009618	C7029	C-CER,CHIP
2203-009733	C2009,C5035,C5044	C-CER,CHIP
2203-009733	C5050,C5055,C5059	C-CER,CHIP
2203-009733	C5072,C5081,C5091	C-CER,CHIP
2203-009733	C5152,C6007,C6030	C-CER,CHIP
2203-009733	C7002,C7012,C7021	C-CER,CHIP
2203-009733	C7023,C7024,C7025	C-CER,CHIP
2203-009733	C7043,C7044,C7045	C-CER,CHIP
2203-009733	C7046,C7047,C7048	C-CER,CHIP

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5. MAIN Electrical Parts List

2203-009733	C7049,C7050,C7051	C-CER,CHIP
2203-009733	C7054,C7055,C7056	C-CER,CHIP
2203-009733	C7060,C7061,C7062	C-CER,CHIP
2203-010075	C2053	C-CER,CHIP
2203-010085	C5058	C-CER,CHIP
2703-002649	C1057,L1033	INDUCTOR-SMD
2703-002842	C1055,C1094,C1124	INDUCTOR-SMD
2703-002842	L1061,L2009,L2010	INDUCTOR-SMD
2703-002842	L2012,L2032	INDUCTOR-SMD
2703-002900	C1038	INDUCTOR-SMD
2703-002901	C1078,C1104,L1011	INDUCTOR-SMD
2703-002901	L1060,L3027	INDUCTOR-SMD
2703-002903	C1040,C1127,L1009	INDUCTOR-SMD
2703-002903	L3004,L3010,L3013	INDUCTOR-SMD
2703-002903	L5014,L5015	INDUCTOR-SMD
2703-002955	C1064,C1111	INDUCTOR-SMD
2703-002958	C1066	INDUCTOR-SMD
2703-002999	L2031	INDUCTOR-SMD
2703-003476	L3000	INDUCTOR-SMD
2703-003771	C1034,C3059,L1021	INDUCTOR-SMD
2703-003970	C1095,C1119,L3014	INDUCTOR-SMD
2703-004000	C1004	INDUCTOR-SMD
2703-004012	C2068,C3027,C3061	INDUCTOR-SMD
2703-004012	L1007,L1070,L1072	INDUCTOR-SMD
2703-004013	C1005,C1051,L1004	INDUCTOR-SMD
2703-004013	L1068,L3015	INDUCTOR-SMD
2703-004014	C1059,C2002,C3056	INDUCTOR-SMD
2703-004014	L1002,L1028,L2013	INDUCTOR-SMD
2703-004014	L2041,L3001,L3005	INDUCTOR-SMD
2703-004032	C2003,C2015,C2018	INDUCTOR-SMD
2703-004032	L1054,L2007	INDUCTOR-SMD
2703-004033	C1125,L1029,L1062	INDUCTOR-SMD
2703-004034	C1100,L1073	INDUCTOR-SMD
2703-004035	C1114,C2007,C2013	INDUCTOR-SMD
2703-004035	C2016,L1025,L1032	INDUCTOR-SMD
2703-004035	L1052,L1057,L2042	INDUCTOR-SMD
2703-004036	C1118,C2065,L1017	INDUCTOR-SMD
2703-004036	L2029	INDUCTOR-SMD
2703-004037	C2014,L1039,L2002	INDUCTOR-SMD

5. MAIN Electrical Parts List

2703-004037	L2023,L2038	INDUCTOR-SMD
2703-004038	L3002	INDUCTOR-SMD
2703-004171	C2060,L1016,L1024	INDUCTOR-SMD
2703-004171	L2001,L2028	INDUCTOR-SMD
2703-004286	C1008,C2019	INDUCTOR-SMD
2703-004300	L1076,L2073,L2074	INDUCTOR-SMD
2703-004317	L1013,L1035	INDUCTOR-SMD
2703-004328	C3054	INDUCTOR-SMD
2703-004367	L3016	INDUCTOR-SMD
2703-004703	L1075	INDUCTOR-SMD
2703-004763	L1006,L1030	INDUCTOR-SMD
2703-004764	C2017	INDUCTOR-SMD
2703-004853	L1019	INDUCTOR-SMD
2703-005058	C1001,L1067,L2040	INDUCTOR-SMD
2703-005058	L3017	INDUCTOR-SMD
2703-005066	L2008	INDUCTOR-SMD
2703-005085	C1016,C1090,L1012	INDUCTOR-SMD
2703-005085	L1063	INDUCTOR-SMD
2703-005088	C1092,L1038	INDUCTOR-SMD
2703-005200	L6001	INDUCTOR-SMD
2703-005201	L5001,L5003,L5004	INDUCTOR-SMD
2703-005201	L5005,L5011	INDUCTOR-SMD
2703-005224	L7009	INDUCTOR-SMD
2703-005366	L1008	INDUCTOR-SMD
2703-005418	L7006	INDUCTOR-SMD
2703-005419	L7007	INDUCTOR-SMD
2703-005555	L3003,L3008	INDUCTOR-SMD
2703-005689	L5002,L5006,L5007	INDUCTOR-SMD
2703-005689	L5009,L5012	INDUCTOR-SMD
2801-005393	OSC5000	OSCILLATOR
2805-001118	OSC2000	OSCILLATOR
2901-001690	C4028,C4031,C4057	FILTER
2901-001690	C4058,C4059,C4084	FILTER
2901-001690	C4085	FILTER
2904-002241	F1011	FILTER
2904-002257	F2002	FILTER
2904-002285	F1008	FILTER
2904-002339	F2000	FILTER
2904-002355	F3002,F3003	FILTER

5. MAIN Electrical Parts List

2904-002397	F1006	FILTER
2904-002405	F2001	FILTER
2904-002409	U3001	FILTER
2910-000390	F1010	FILTER
2911-000430	U2000	FILTER
2911-000452	U1001	FILTER
3003-001225	MIC6000	MIC
3301-002078	L3020,L3021,R6011	CORE-FERRITE BEAD
3301-002122	L2005,L2006,L6008	CORE-FERRITE BEAD
3301-002122	L6010	CORE-FERRITE BEAD
3301-002235	L6003,L6004,L6005	CORE-FERRITE BEAD
3301-002235	L6006,L6007,L6009	CORE-FERRITE BEAD
3301-002235	L6013,L6014	CORE-FERRITE BEAD
3301-002237	L1000,L2027,L2037	CORE-FERRITE BEAD
3301-002238	L2017,L2019,L2020	CORE-FERRITE BEAD
3301-002238	L2022,L3012,L6000	CORE-FERRITE BEAD
3301-002238	L6002	CORE-FERRITE BEAD
3301-002242	L2036	CORE-FERRITE BEAD
3301-002312	L2016,L2018,L2021	CORE-FERRITE BEAD
3301-002312	L7005,L7008,L7010	CORE-FERRITE BEAD
3301-002331	L5008	CORE-FERRITE BEAD
3301-002394	L7000,L7001,L7004	CORE-FERRITE BEAD
3301-002394	L7011	CORE-FERRITE BEAD
3705-001708	RFS1001	CONNECTOR
3705-001937	RFS1000	CONNECTOR
3709-001932	SIM4UP	CONNECTOR
3709-001933	SIM1	CONNECTOR
3709-001934	SIM2,SIM3	CONNECTOR
3710-003871	SOC7000	CONNECTOR
3710-004285	HDC6000	CONNECTOR
3710-004448	SOC7001	CONNECTOR
3711-008847	BTC5000	CONNECTOR
3711-008931	HDC7000,HDC7001	CONNECTOR
3712-001621	ANT1000,ANT2000	CONNECTOR
3712-001621	ANT2001,ANT2004	CONNECTOR
3712-001621	ANT2008,ANT2010	CONNECTOR
3712-001626	ANT2005,ANT2006	CONNECTOR
3712-001626	ANT2007	CONNECTOR
3712-001633	ANT5002,ANT5005	CONNECTOR

5. MAIN Electrical Parts List

3712-001666	ANT6000,ANT6001	CONNECTOR
3712-001694	ANT5000,ANT5001	CONNECTOR
3712-001694	ANT5003,ANT5004	CONNECTOR
3712-001694	ANT5006	CONNECTOR
3712-001714	ANT3000,ANT3001	CONNECTOR
3712-001714	ANT3002,ANT3003	CONNECTOR
4709-002196	F2005	RF-MODULE
4709-002387	F1002	RF-MODULE
4709-002484	F2004	RF-MODULE
4709-002589	F1001	RF-MODULE
GH62-00042A	CN7000	SUS
GH63-16791A	SC7004	SHIELD-CAN
GH63-16890A	SC7000	SHIELD-CAN
GH63-17697A	SC7002	SHIELD-CAN
GH63-17699A	SC7003	SHIELD-CAN
GH98-44895A	SC7001	SHIELD-CAN
GH02-19641A	SC7001SP	TAPE

5. MAIN Electrical Parts List

[SM-A307G]

Parts Code	Design Loc	Description
D5001	0401-001110	DIODE
D5000	0404-001250	DIODE
ZD5002,ZD5003,ZD6000	0406-001561	DIODE
ZD6001,ZD6005	0406-001561	DIODE
ZD5004,ZD6013	0406-001592	DIODE
D6000	0406-001808	DIODE
ZD6021,ZD6022	0406-001809	DIODE
ZD1000,ZD5001	0406-001829	DIODE
Q5000	0505-003618	DIODE
LED5000	0601-003768	LED
U1006	1001-001844	IC
U1004	1001-001970	IC
U1002,U2003	1001-002042	IC
U1003	1001-002063	IC
U3002	1001-002065	IC
U2004	1003-002802	IC
C3075	1009-001076	IC
UCP400UP	1105-002915	MEMORY
UME5000	1107-002633	MEMORY
U3007	1201-003869	IC
U1007	1201-004029	IC
U1005	1201-004209	IC
PAM1000	1201-004237	IC
U6000	1201-004245	IC
U3011,U5007	1203-008249	IC
U7001	1203-008322	IC
U2001	1203-008693	IC
U7006	1203-008865	IC
U3000,U3013,U7003	1203-008867	IC
U3015,U7002,U7004	1203-008872	IC
U7000	1203-008989	IC
U5002	1203-009211	IC
U5003	1203-009213	IC
U7007	1203-009220	IC
U7005	1203-009221	IC
U6002	1203-009320	IC
U2002	1205-005767	IC

5. MAIN Electrical Parts List

U3003	1205-005860	IC
UCP400	1205-006074	IC
U3014	1209-002413	IC
U3012	1209-002450	IC
U1008	1209-002555	IC
U3009	1209-002628	IC
U3016	1209-002629	IC
TH1000,TH4000,VR5000	1404-001724	THERMISTOR
V7000	1405-001429	THERMISTOR
R6034,R6035	2007-003015	R-CHIP
R6003,R6004	2007-007190	R-CHIP
R4231	2007-007317	R-CHIP
R2001,R2002,R3003	2007-007741	R-CHIP
R4013,R4015,R4016	2007-007741	R-CHIP
R4027,R4031,R5001	2007-007741	R-CHIP
R5022,R5024,R5027	2007-007741	R-CHIP
R6002	2007-007741	R-CHIP
R6025	2007-007798	R-CHIP
R5111	2007-007942	R-CHIP
R5112	2007-007946	R-CHIP
R4041,R5011,R5023	2007-008419	R-CHIP
R5020,R5021,R5025	2007-008483	R-CHIP
L7003,R5010,R5015	2007-008531	R-CHIP
R7000,R7001	2007-008531	R-CHIP
R1011	2007-008587	R-CHIP
R1004,R4006,R4008	2007-008588	R-CHIP
R4011,R4017,R4018	2007-008588	R-CHIP
R4020,R4021,R4022	2007-008588	R-CHIP
R4023,R4024,R4026	2007-008588	R-CHIP
R4030,R4032,R4033	2007-008588	R-CHIP
R4034,R4035,R4036	2007-008588	R-CHIP
R4037,R4107,R4108	2007-008588	R-CHIP
R4228,R6028	2007-008588	R-CHIP
R6012	2007-008800	R-CHIP
R3005,R5029	2007-009111	R-CHIP
R1007,R4001,R4002	2007-009157	R-CHIP
R4003,R4010,R4047	2007-009157	R-CHIP
R5009,R5105,R6000	2007-009157	R-CHIP
R6009,R6020	2007-009157	R-CHIP

5. MAIN Electrical Parts List

R5008,R5028	2007-009171	R-CHIP
R6006	2007-009212	R-CHIP
R5019,R6001	2007-009352	R-CHIP
R6007	2007-009408	R-CHIP
R6015,R6038	2007-009410	R-CHIP
R3000	2007-009766	R-CHIP
R6014	2007-009793	R-CHIP
R5007	2007-009801	R-CHIP
C1091,R1000,R1001	2007-009805	R-CHIP
R1002,R1003,R2000	2007-009805	R-CHIP
R4004,R4005,R4007	2007-009920	R-CHIP
R4009	2007-009920	R-CHIP
R6008	2007-009969	R-CHIP
R5000	2007-010685	R-CHIP
R4019,R4200,R4201	2007-011043	R-CHIP
R4202,R4203	2007-011043	R-CHIP
R6010	2007-011532	R-CHIP
L1081,L1082,R2003	2007-011648	R-CHIP
R6016	2007-011648	R-CHIP
R5002	2007-012068	R-CHIP
C5173,C5174	2203-000489	C-CER,CHIP
C5178	2203-005344	C-CER,CHIP
C1015,C1017,C1021	2203-005682	C-CER,CHIP
C1022,C1060,C5117	2203-005682	C-CER,CHIP
C5123,C5165,C7300	2203-005682	C-CER,CHIP
L2011	2203-005682	C-CER,CHIP
C1063,C1141,C3033	2203-005725	C-CER,CHIP
C7004,C7299,L1005	2203-005725	C-CER,CHIP
C6000,C6004,C6010	2203-005729	C-CER,CHIP
C6015,C6018,C6019	2203-005729	C-CER,CHIP
C2049,C6045,C6049	2203-005731	C-CER,CHIP
C1072,C5049,C6016	2203-005732	C-CER,CHIP
C6017,C6022,C6028	2203-005732	C-CER,CHIP
C3057,L2000	2203-005734	C-CER,CHIP
C1000,C1009,C1010	2203-005736	C-CER,CHIP
C1014,C1018,C1020	2203-005736	C-CER,CHIP
C1048,C1052,C1080	2203-005736	C-CER,CHIP
C1083,C1084,C1085	2203-005736	C-CER,CHIP
C1123,C1137,C1138	2203-005736	C-CER,CHIP

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5. MAIN Electrical Parts List

C1140,C1144,C1151	2203-005736	C-CER,CHIP
C1154,C1155,C2040	2203-005736	C-CER,CHIP
C2043,C2047,C2062	2203-005736	C-CER,CHIP
C2071,C2075,C3003	2203-005736	C-CER,CHIP
C3014,C3029,C6058	2203-005736	C-CER,CHIP
L1044,L3007	2203-005736	C-CER,CHIP
C2010	2203-005740	C-CER,CHIP
C1061,C1077,C1081	2203-005777	C-CER,CHIP
C1120,C1121,C1143	2203-005777	C-CER,CHIP
L2030	2203-005777	C-CER,CHIP
C1056,C1065,C1088	2203-005789	C-CER,CHIP
C1126,C1142,C1146	2203-005789	C-CER,CHIP
C1147,C2004,C2069	2203-005789	C-CER,CHIP
L1010,L1041,L1055	2203-005789	C-CER,CHIP
L1077	2203-005789	C-CER,CHIP
C1109,C1110	2203-005792	C-CER,CHIP
C1011,C2000	2203-005806	C-CER,CHIP
C6014	2203-006121	C-CER,CHIP
C1087,C5137	2203-006187	C-CER,CHIP
C5176	2203-006194	C-CER,CHIP
C1054,C1107,C3025	2203-006305	C-CER,CHIP
L1040	2203-006305	C-CER,CHIP
C6042	2203-006379	C-CER,CHIP
C2045,C3039,C4013	2203-006400	C-CER,CHIP
C6027	2203-006400	C-CER,CHIP
C1122,L1059	2203-006410	C-CER,CHIP
C2033,C3066,C3078	2203-006423	C-CER,CHIP
C3098,C3099,C4005	2203-006423	C-CER,CHIP
C4012,C5120,C5141	2203-006423	C-CER,CHIP
C5160,C5172,C5175	2203-006423	C-CER,CHIP
C6048,C7298	2203-006423	C-CER,CHIP
C1053,C1068,C1074	2203-006556	C-CER,CHIP
C1099,C1139,C5045	2203-006556	C-CER,CHIP
C1093,C3062,C5138	2203-006604	C-CER,CHIP
L1036	2203-006604	C-CER,CHIP
C1113	2203-006611	C-CER,CHIP
C6021	2203-006648	C-CER,CHIP
L1053	2203-006665	C-CER,CHIP
C4064	2203-006668	C-CER,CHIP

5. MAIN Electrical Parts List

C1024,C2063,L1037	2203-006674	C-CER,CHIP
C1114	2203-006707	C-CER,CHIP
C1012,C1131,C2001	2203-006839	C-CER,CHIP
C4035,C5092,C5095	2203-006839	C-CER,CHIP
C5135	2203-006839	C-CER,CHIP
C4204,C4205,C4206	2203-006846	C-CER,CHIP
C4207	2203-006846	C-CER,CHIP
C1026	2203-006896	C-CER,CHIP
C2022,C2025,C2027	2203-006979	C-CER,CHIP
C2028,C2032,C2035	2203-006979	C-CER,CHIP
C2036,C2038,C2048	2203-006979	C-CER,CHIP
C2050	2203-006979	C-CER,CHIP
C2006,C3067,C7007	2203-007194	C-CER,CHIP
C4022,C4025,C4050	2203-007210	C-CER,CHIP
C4051,C4068,C4087	2203-007210	C-CER,CHIP
C5125,C5126	2203-007210	C-CER,CHIP
C5036,C5038	2203-007235	C-CER,CHIP
C5083,C5097	2203-007271	C-CER,CHIP
C7147	2203-007279	C-CER,CHIP
C3100,C4039,C4078	2203-007317	C-CER,CHIP
C7000,C7006,C7018	2203-007317	C-CER,CHIP
C7031,C7033,C7035	2203-007317	C-CER,CHIP
C7296	2203-007317	C-CER,CHIP
C2030	2203-007391	C-CER,CHIP
C5070	2203-007392	C-CER,CHIP
C1007,C1075,C2012	2203-007393	C-CER,CHIP
C3101,C4011,C4023	2203-007393	C-CER,CHIP
C4024,C4074,C5032	2203-007393	C-CER,CHIP
C5037,C5040,C5043	2203-007393	C-CER,CHIP
C5048,C5051,C5054	2203-007393	C-CER,CHIP
C5065,C5066,C5071	2203-007393	C-CER,CHIP
C5076,C5084,C5087	2203-007393	C-CER,CHIP
C5096,C5118,C5124	2203-007393	C-CER,CHIP
C5127,C5136,C5168	2203-007393	C-CER,CHIP
C5169,C5170,C5171	2203-007393	C-CER,CHIP
C6003	2203-007450	C-CER,CHIP
C5086,C6032	2203-007456	C-CER,CHIP
C2024,C2029,C2031	2203-007474	C-CER,CHIP
C2039,C4047,C4049	2203-007474	C-CER,CHIP

5. MAIN Electrical Parts List

C4069,C5056,C7027	2203-007474	C-CER,CHIP
C7028	2203-007474	C-CER,CHIP
C2011,C2023,C2026	2203-007796	C-CER,CHIP
C2034,C2037,C3000	2203-007796	C-CER,CHIP
C3008,C3013,C3018	2203-007796	C-CER,CHIP
C3046,C3084,C3093	2203-007796	C-CER,CHIP
C3094,C3096,C3097	2203-007796	C-CER,CHIP
C3102,C4002,C4006	2203-007796	C-CER,CHIP
C4007,C4008,C4009	2203-007796	C-CER,CHIP
C4010,C4014,C4015	2203-007796	C-CER,CHIP
C4018,C4019,C4020	2203-007796	C-CER,CHIP
C4021,C4026,C4029	2203-007796	C-CER,CHIP
C4030,C4033,C4034	2203-007796	C-CER,CHIP
C4037,C4038,C4044	2203-007796	C-CER,CHIP
C4045,C4052,C4053	2203-007796	C-CER,CHIP
C4054,C4055,C4056	2203-007796	C-CER,CHIP
C4062,C4063,C4065	2203-007796	C-CER,CHIP
C4066,C4067,C4070	2203-007796	C-CER,CHIP
C4071,C4072,C4073	2203-007796	C-CER,CHIP
C4075,C4076,C4077	2203-007796	C-CER,CHIP
C4079,C4080,C4081	2203-007796	C-CER,CHIP
C4082,C4083,C4088	2203-007796	C-CER,CHIP
C4089,C4090,C4091	2203-007796	C-CER,CHIP
C4092,C4093,C4094	2203-007796	C-CER,CHIP
C5008,C5009,C5013	2203-007796	C-CER,CHIP
C5015,C5016,C5017	2203-007796	C-CER,CHIP
C5018,C5019,C5020	2203-007796	C-CER,CHIP
C5024,C5025,C5026	2203-007796	C-CER,CHIP
C5030,C5073,C5085	2203-007796	C-CER,CHIP
C5093,C5101,C5102	2203-007796	C-CER,CHIP
C5104,C5107,C5108	2203-007796	C-CER,CHIP
C5110,C5128,C5134	2203-007796	C-CER,CHIP
C5166,C6002,C6020	2203-007796	C-CER,CHIP
C6023,C6024,C7001	2203-007796	C-CER,CHIP
C7005,C7011,C7013	2203-007796	C-CER,CHIP
C7015,C7020,C7022	2203-007796	C-CER,CHIP
C7037,C7038,C7039	2203-007796	C-CER,CHIP
C7287,C7293,C7294	2203-007796	C-CER,CHIP
C7295,C7297,U4001	2203-007796	C-CER,CHIP

5. MAIN Electrical Parts List

C5079	2203-008158	C-CER,CHIP
C2058,C3005,C3016	2203-008242	C-CER,CHIP
C4001,C4003,C4004	2203-008242	C-CER,CHIP
C4017,C4043,C5000	2203-008242	C-CER,CHIP
C5002,C5004,C5007	2203-008242	C-CER,CHIP
C5011,C5012,C5021	2203-008242	C-CER,CHIP
C5022,C5023,C5027	2203-008242	C-CER,CHIP
C6005	2203-008242	C-CER,CHIP
C3058,L1003	2203-008394	C-CER,CHIP
C6031	2203-008654	C-CER,CHIP
C2057,C3092,C3095	2203-008860	C-CER,CHIP
C5028,C5100,C5121	2203-008860	C-CER,CHIP
C5133,C6006,C6008	2203-008860	C-CER,CHIP
C6012,C6013,C7016	2203-008860	C-CER,CHIP
C7032,C7040,C7041	2203-008860	C-CER,CHIP
C7042	2203-008860	C-CER,CHIP
C1013,C1069,C1071	2203-008876	C-CER,CHIP
C1098,C1105,C3011	2203-008876	C-CER,CHIP
C5075,C5098,C5119	2203-008876	C-CER,CHIP
C6009,C6025,C6029	2203-008876	C-CER,CHIP
C7034	2203-008876	C-CER,CHIP
C4060,C4061,C4086	2203-009328	C-CER,CHIP
C5039,C5041,C5042	2203-009328	C-CER,CHIP
C5047,C5052,C5060	2203-009328	C-CER,CHIP
C5063,C5074	2203-009328	C-CER,CHIP
C5003	2203-009537	C-CER,CHIP
C5069,C5077,C6001	2203-009618	C-CER,CHIP
C7029	2203-009618	C-CER,CHIP
C2009,C5035,C5044	2203-009733	C-CER,CHIP
C5050,C5055,C5059	2203-009733	C-CER,CHIP
C5072,C5081,C5091	2203-009733	C-CER,CHIP
C5152,C6007,C6030	2203-009733	C-CER,CHIP
C7002,C7012,C7021	2203-009733	C-CER,CHIP
C7023,C7024,C7025	2203-009733	C-CER,CHIP
C7043,C7044,C7045	2203-009733	C-CER,CHIP
C7046,C7047,C7048	2203-009733	C-CER,CHIP
C7049,C7050,C7051	2203-009733	C-CER,CHIP
C7054,C7055,C7056	2203-009733	C-CER,CHIP
C7060,C7061,C7062	2203-009733	C-CER,CHIP

5. MAIN Electrical Parts List

C2053	2203-010075	C-CER,CHIP
C5058	2203-010085	C-CER,CHIP
C1057,L1033,L1049	2703-002649	INDUCTOR-SMD
C1055,C1094,C1124	2703-002842	INDUCTOR-SMD
L1061,L2009,L2010	2703-002842	INDUCTOR-SMD
L2012,L2032	2703-002842	INDUCTOR-SMD
C1038,C1079	2703-002900	INDUCTOR-SMD
C1028,C1078,C1104	2703-002901	INDUCTOR-SMD
L1011,L1060,L3027	2703-002901	INDUCTOR-SMD
C1040,C1115,C1117	2703-002903	INDUCTOR-SMD
C1127,C1134,L1009	2703-002903	INDUCTOR-SMD
L3004,L3010,L3013	2703-002903	INDUCTOR-SMD
L5014,L5015	2703-002903	INDUCTOR-SMD
C1064,C1111	2703-002955	INDUCTOR-SMD
C1066	2703-002958	INDUCTOR-SMD
L2031	2703-002999	INDUCTOR-SMD
L3000	2703-003476	INDUCTOR-SMD
C1034,C3059,L1015	2703-003771	INDUCTOR-SMD
L1021	2703-003771	INDUCTOR-SMD
C1095,C1119,L1050	2703-003970	INDUCTOR-SMD
L3014	2703-003970	INDUCTOR-SMD
C1004	2703-004000	INDUCTOR-SMD
C1149,C1152,C2068	2703-004012	INDUCTOR-SMD
C3027,C3061,L1007	2703-004012	INDUCTOR-SMD
L1070,L1072	2703-004012	INDUCTOR-SMD
C1005,C1051,L1004	2703-004013	INDUCTOR-SMD
L1068,L3015	2703-004013	INDUCTOR-SMD
C1059,C2002,C3056	2703-004014	INDUCTOR-SMD
L1002,L1028,L1031	2703-004014	INDUCTOR-SMD
L2013,L2041,L3001	2703-004014	INDUCTOR-SMD
L3005	2703-004014	INDUCTOR-SMD
L1051	2703-004018	INDUCTOR-SMD
C2003,C2015,C2018	2703-004032	INDUCTOR-SMD
L1052,L1054,L1085	2703-004032	INDUCTOR-SMD
L2007	2703-004032	INDUCTOR-SMD
C1125,C1153,L1029	2703-004033	INDUCTOR-SMD
L1062	2703-004033	INDUCTOR-SMD
C1073,C1100,L1034	2703-004034	INDUCTOR-SMD
L1073	2703-004034	INDUCTOR-SMD

5. MAIN Electrical Parts List

C2007,C2013,C2016	2703-004035	INDUCTOR-SMD
L1032,L1046,L1057	2703-004035	INDUCTOR-SMD
L2042	2703-004035	INDUCTOR-SMD
C1118,C2065,L1017	2703-004036	INDUCTOR-SMD
L2029	2703-004036	INDUCTOR-SMD
C2014,L1039,L1042	2703-004037	INDUCTOR-SMD
L1045,L2002,L2023	2703-004037	INDUCTOR-SMD
L2038	2703-004037	INDUCTOR-SMD
L1047,L3002	2703-004038	INDUCTOR-SMD
C2060,L1016,L1024	2703-004171	INDUCTOR-SMD
L2001,L2028	2703-004171	INDUCTOR-SMD
C1008,C2019	2703-004286	INDUCTOR-SMD
L1076,L2073,L2074	2703-004300	INDUCTOR-SMD
L1013,L1035	2703-004317	INDUCTOR-SMD
C3054	2703-004328	INDUCTOR-SMD
C1002,C1089,L3016	2703-004367	INDUCTOR-SMD
L1056	2703-004408	INDUCTOR-SMD
L1075	2703-004703	INDUCTOR-SMD
L1006,L1030	2703-004763	INDUCTOR-SMD
C2017,C2021,L2014	2703-004764	INDUCTOR-SMD
L1019	2703-004853	INDUCTOR-SMD
L1025	2703-004862	INDUCTOR-SMD
C1001,C1150,L1067	2703-005058	INDUCTOR-SMD
L2015,L2040,L3017	2703-005058	INDUCTOR-SMD
L2008	2703-005066	INDUCTOR-SMD
C1016,C1090,L1012	2703-005085	INDUCTOR-SMD
L1063	2703-005085	INDUCTOR-SMD
C1092,C1133,L1038	2703-005088	INDUCTOR-SMD
C1102	2703-005098	INDUCTOR-SMD
L6001	2703-005200	INDUCTOR-SMD
L5001,L5003,L5004	2703-005201	INDUCTOR-SMD
L5005,L5011	2703-005201	INDUCTOR-SMD
L7009	2703-005224	INDUCTOR-SMD
L1008	2703-005366	INDUCTOR-SMD
L7006	2703-005418	INDUCTOR-SMD
L7007	2703-005419	INDUCTOR-SMD
L5002,L5006,L5007	2703-005689	INDUCTOR-SMD
L5009,L5012	2703-005689	INDUCTOR-SMD
OSC5000	2801-005393	OSCILLATOR

5. MAIN Electrical Parts List

OSC2000	2805-001118	OSCILLATOR
C4028,C4031,C4057	2901-001690	FILTER
C4058,C4059,C4084	2901-001690	FILTER
C4085	2901-001690	FILTER
F1011	2904-002241	FILTER
F2002	2904-002257	FILTER
F1008	2904-002285	FILTER
F2003	2904-002326	FILTER
F2000	2904-002339	FILTER
F3002,F3003	2904-002355	FILTER
F1006	2904-002397	FILTER
F2001	2904-002405	FILTER
U3001	2904-002409	FILTER
F1007	2910-000364	FILTER
F1010	2910-000390	FILTER
F1003	2910-000404	FILTER
F1009	2910-000412	FILTER
U2000	2911-000430	FILTER
U1001	2911-000452	FILTER
MIC6000	3003-001225	MIC
L3020,L3021,R6011	3301-002078	CORE-FERRITE BEAD
L2005,L2006,L6008	3301-002122	CORE-FERRITE BEAD
L6010	3301-002122	CORE-FERRITE BEAD
L6003,L6004,L6005	3301-002235	CORE-FERRITE BEAD
L6006,L6007,L6009	3301-002235	CORE-FERRITE BEAD
L6013,L6014	3301-002235	CORE-FERRITE BEAD
L1000,L2027,L2037	3301-002237	CORE-FERRITE BEAD
L2017,L2019,L2020	3301-002238	CORE-FERRITE BEAD
L2022,L3012,L6000	3301-002238	CORE-FERRITE BEAD
L6002	3301-002238	CORE-FERRITE BEAD
L2036	3301-002242	CORE-FERRITE BEAD
L2016,L2018,L2021	3301-002312	CORE-FERRITE BEAD
L7005,L7008,L7010	3301-002312	CORE-FERRITE BEAD
L5008	3301-002331	CORE-FERRITE BEAD
L7000,L7001,L7004	3301-002394	CORE-FERRITE BEAD
L7011	3301-002394	CORE-FERRITE BEAD
RFS1001	3705-001708	CONNECTOR
RFS1000	3705-001937	CONNECTOR
SIM4UP	3709-001932	CONNECTOR

5. MAIN Electrical Parts List

SIM1	3709-001933	CONNECTOR
SIM2,SIM3	3709-001934	CONNECTOR
SOC7000	3710-003871	CONNECTOR
HDC6000	3710-004285	CONNECTOR
SOC7001	3710-004448	CONNECTOR
BTC5000	3711-008847	CONNECTOR
HDC7000,HDC7001	3711-008931	CONNECTOR
ANT1000,ANT2000	3712-001621	CONNECTOR
ANT2001,ANT2004	3712-001621	CONNECTOR
ANT2008,ANT2010	3712-001621	CONNECTOR
ANT2005,ANT2006	3712-001626	CONNECTOR
ANT2007	3712-001626	CONNECTOR
ANT5002,ANT5005	3712-001633	CONNECTOR
ANT6000,ANT6001	3712-001666	CONNECTOR
ANT5000,ANT5001	3712-001694	CONNECTOR
ANT5003,ANT5004	3712-001694	CONNECTOR
ANT5006	3712-001694	CONNECTOR
ANT3000,ANT3003	3712-001714	CONNECTOR
F2005	4709-002196	RF-MODULE
F1002	4709-002387	RF-MODULE
F2004	4709-002484	RF-MODULE
F1001	4709-002589	RF-MODULE
CN7000	GH62-00042A	SUS
SC7004	GH63-16791A	SHIELD-CAN
SC7000	GH63-16890A	SHIELD-CAN
SC7002	GH63-17697A	SHIELD-CAN
SC7003	GH63-17699A	SHIELD-CAN
SC7001	GH98-44895A	SHIELD-CAN
SC7001SP	GH02-19641A	TAPE

5. MAIN Electrical Parts List

[SM-A307GT]

Parts Code	Design Loc	Description
D5001	0401-001110	DIODE
D5000	0404-001250	DIODE
ZD5002,ZD5003,ZD6000	0406-001561	DIODE
ZD6001,ZD6005	0406-001561	DIODE
ZD5004,ZD6013	0406-001592	DIODE
D6000	0406-001808	DIODE
ZD6021,ZD6022	0406-001809	DIODE
ZD1000,ZD5001	0406-001829	DIODE
Q5000	0505-003618	DIODE
LED5000	0601-003768	LED
U1006	1001-001844	IC
U1004	1001-001970	IC
U1002,U2003	1001-002042	IC
U1003	1001-002063	IC
U3002,U6003	1001-002065	IC
U2004	1003-002802	IC
C3075	1009-001076	IC
UCP400UP	1105-002915	MEMORY
UME5000	1107-002633	MEMORY
U3007	1201-003869	IC
U1007	1201-004029	IC
U1005	1201-004209	IC
PAM1000	1201-004237	IC
U6000	1201-004245	IC
U6001	1202-001120	IC
U3011,U5007	1203-008249	IC
U7001	1203-008322	IC
U2001	1203-008693	IC
U3006,U7006	1203-008865	IC
U3013,U7003	1203-008867	IC
U3015,U7002,U7004	1203-008872	IC
U7000	1203-008989	IC
U5002	1203-009211	IC
U5003	1203-009213	IC
U7007	1203-009220	IC
U7005	1203-009221	IC
U6002	1203-009320	IC
U3010	1204-003748	IC

5. MAIN Electrical Parts List

U2002	1205-005767	IC
U3003	1205-005860	IC
UCP400	1205-006074	IC
U3014	1209-002413	IC
U3012	1209-002450	IC
U1008	1209-002555	IC
U3009	1209-002628	IC
U3016	1209-002629	IC
TH1000,TH4000,VR5000	1404-001724	THERMISTOR
V7000	1405-001429	THERMISTOR
R6034,R6035	2007-003015	R-CHIP
R6003,R6004	2007-007190	R-CHIP
R4231	2007-007317	R-CHIP
R2001,R2002,R3003	2007-007741	R-CHIP
R4013,R4015,R4016	2007-007741	R-CHIP
R4025,R4027,R5001	2007-007741	R-CHIP
R5022,R5024,R5027	2007-007741	R-CHIP
R6002	2007-007741	R-CHIP
R6025	2007-007798	R-CHIP
R5111	2007-007942	R-CHIP
R5112	2007-007946	R-CHIP
R6022	2007-008296	R-CHIP
R4041,R5011,R5023	2007-008419	R-CHIP
R5020,R5021,R5025	2007-008483	R-CHIP
L7003,R5010,R5015	2007-008531	R-CHIP
R7000,R7001	2007-008531	R-CHIP
R1011	2007-008587	R-CHIP
R1004,R4006,R4008	2007-008588	R-CHIP
R4011,R4017,R4018	2007-008588	R-CHIP
R4020,R4021,R4022	2007-008588	R-CHIP
R4023,R4024,R4026	2007-008588	R-CHIP
R4030,R4032,R4033	2007-008588	R-CHIP
R4034,R4035,R4036	2007-008588	R-CHIP
R4037,R4107,R4108	2007-008588	R-CHIP
R4228,R6028	2007-008588	R-CHIP
R6012	2007-008800	R-CHIP
R3005,R5029	2007-009111	R-CHIP
R1007,R4001,R4002	2007-009157	R-CHIP
R4003,R4010,R4047	2007-009157	R-CHIP
R5009,R5105,R6000	2007-009157	R-CHIP

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5. MAIN Electrical Parts List

R6009,R6020	2007-009157	R-CHIP
R5008,R5028	2007-009171	R-CHIP
R3004,R6006	2007-009212	R-CHIP
R5019,R6001	2007-009352	R-CHIP
R6007	2007-009408	R-CHIP
R6015,R6038	2007-009410	R-CHIP
R3000	2007-009766	R-CHIP
R6014	2007-009793	R-CHIP
R5007,R6017	2007-009801	R-CHIP
C1091,R1000,R1001	2007-009805	R-CHIP
R1002,R1003,R2000	2007-009805	R-CHIP
R6019	2007-009807	R-CHIP
R4004,R4005,R4007	2007-009920	R-CHIP
R4009	2007-009920	R-CHIP
R6008	2007-009969	R-CHIP
R5000,R6021	2007-010685	R-CHIP
R4019,R4200,R4201	2007-011043	R-CHIP
R4202,R4203	2007-011043	R-CHIP
R6010	2007-011532	R-CHIP
L1081,L1082,R2003	2007-011648	R-CHIP
R6016,R6040	2007-011648	R-CHIP
R5002	2007-012068	R-CHIP
R6018	2007-012202	R-CHIP
C5173,C5174	2203-000489	C-CER,CHIP
C5178	2203-005344	C-CER,CHIP
C1015,C1017,C1021	2203-005682	C-CER,CHIP
C1022,C1060,C5117	2203-005682	C-CER,CHIP
C5123,C5165,C7300	2203-005682	C-CER,CHIP
L2011	2203-005682	C-CER,CHIP
C1063,C1141,C3033	2203-005725	C-CER,CHIP
C7004,C7299,L1005	2203-005725	C-CER,CHIP
C6000,C6004,C6010	2203-005729	C-CER,CHIP
C6015,C6018,C6019	2203-005729	C-CER,CHIP
C2049,C6045,C6049	2203-005731	C-CER,CHIP
C1072,C5049,C6016	2203-005732	C-CER,CHIP
C6017,C6022,C6028	2203-005732	C-CER,CHIP
C3057,L2000	2203-005734	C-CER,CHIP
C1000,C1009,C1010	2203-005736	C-CER,CHIP
C1014,C1018,C1020	2203-005736	C-CER,CHIP
C1048,C1052,C1080	2203-005736	C-CER,CHIP

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5. MAIN Electrical Parts List

C1083,C1084,C1085	2203-005736	C-CER,CHIP
C1123,C1137,C1138	2203-005736	C-CER,CHIP
C1140,C1144,C1151	2203-005736	C-CER,CHIP
C1154,C1155,C2040	2203-005736	C-CER,CHIP
C2043,C2047,C2062	2203-005736	C-CER,CHIP
C2071,C2075,C3003	2203-005736	C-CER,CHIP
C3014,C3029,C6053	2203-005736	C-CER,CHIP
C6057,L1044,L3007	2203-005736	C-CER,CHIP
C2010,C3090	2203-005740	C-CER,CHIP
C1061,C1077,C1081	2203-005777	C-CER,CHIP
C1120,C1121,C1143	2203-005777	C-CER,CHIP
L2030	2203-005777	C-CER,CHIP
C1056,C1065,C1088	2203-005789	C-CER,CHIP
C1126,C1142,C1146	2203-005789	C-CER,CHIP
C1147,C2004,C2069	2203-005789	C-CER,CHIP
L1010,L1041,L1055	2203-005789	C-CER,CHIP
L1077	2203-005789	C-CER,CHIP
C1109,C1110	2203-005792	C-CER,CHIP
C1011,C2000	2203-005806	C-CER,CHIP
C6014	2203-006121	C-CER,CHIP
C1087,C5137	2203-006187	C-CER,CHIP
C5176	2203-006194	C-CER,CHIP
C1054,C1107,C3025	2203-006305	C-CER,CHIP
L1040	2203-006305	C-CER,CHIP
C6042	2203-006379	C-CER,CHIP
C2045,C3039,C3086	2203-006400	C-CER,CHIP
C4013,C6027	2203-006400	C-CER,CHIP
C1122,L1059	2203-006410	C-CER,CHIP
C2033,C3066,C3078	2203-006423	C-CER,CHIP
C3098,C3099,C4005	2203-006423	C-CER,CHIP
C4012,C5120,C5141	2203-006423	C-CER,CHIP
C5160,C5172,C5175	2203-006423	C-CER,CHIP
C6048,C7298	2203-006423	C-CER,CHIP
C6035	2203-006462	C-CER,CHIP
C1053,C1068,C1074	2203-006556	C-CER,CHIP
C1099,C1139,C5045	2203-006556	C-CER,CHIP
C1093,C3062,C5138	2203-006604	C-CER,CHIP
L1036	2203-006604	C-CER,CHIP
C1113	2203-006611	C-CER,CHIP
C6021	2203-006648	C-CER,CHIP

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5. MAIN Electrical Parts List

L1053	2203-006665	C-CER,CHIP
C4064	2203-006668	C-CER,CHIP
C1024,C2063,L1037	2203-006674	C-CER,CHIP
C1114	2203-006707	C-CER,CHIP
C1012,C1131,C2001	2203-006839	C-CER,CHIP
C4035,C5092,C5095	2203-006839	C-CER,CHIP
C5135	2203-006839	C-CER,CHIP
C4204,C4205,C4206	2203-006846	C-CER,CHIP
C4207	2203-006846	C-CER,CHIP
C1026	2203-006896	C-CER,CHIP
C2022,C2025,C2027	2203-006979	C-CER,CHIP
C2028,C2032,C2035	2203-006979	C-CER,CHIP
C2036,C2038,C2048	2203-006979	C-CER,CHIP
C2050	2203-006979	C-CER,CHIP
C2006,C3067,C7007	2203-007194	C-CER,CHIP
C4022,C4025,C4050	2203-007210	C-CER,CHIP
C4051,C4068,C4087	2203-007210	C-CER,CHIP
C5125,C5126	2203-007210	C-CER,CHIP
C5036,C5038	2203-007235	C-CER,CHIP
C5083,C5097	2203-007271	C-CER,CHIP
C7147	2203-007279	C-CER,CHIP
C3100,C4039,C4078	2203-007317	C-CER,CHIP
C7000,C7006,C7018	2203-007317	C-CER,CHIP
C7031,C7033,C7035	2203-007317	C-CER,CHIP
C7296	2203-007317	C-CER,CHIP
C2030	2203-007391	C-CER,CHIP
C5070	2203-007392	C-CER,CHIP
C1007,C1075,C2012	2203-007393	C-CER,CHIP
C3101,C4011,C4023	2203-007393	C-CER,CHIP
C4024,C4074,C5032	2203-007393	C-CER,CHIP
C5037,C5040,C5043	2203-007393	C-CER,CHIP
C5048,C5051,C5054	2203-007393	C-CER,CHIP
C5065,C5066,C5071	2203-007393	C-CER,CHIP
C5076,C5084,C5087	2203-007393	C-CER,CHIP
C5096,C5118,C5124	2203-007393	C-CER,CHIP
C5127,C5136,C5168	2203-007393	C-CER,CHIP
C5169,C5170,C5171	2203-007393	C-CER,CHIP
C6003	2203-007450	C-CER,CHIP
C5086,C6032	2203-007456	C-CER,CHIP
C2024,C2029,C2031	2203-007474	C-CER,CHIP

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5. MAIN Electrical Parts List

C2039,C4047,C4049	2203-007474	C-CER,CHIP
C4069,C5056,C7027	2203-007474	C-CER,CHIP
C7028	2203-007474	C-CER,CHIP
C2011,C2023,C2026	2203-007796	C-CER,CHIP
C2034,C2037,C3000	2203-007796	C-CER,CHIP
C3008,C3013,C3018	2203-007796	C-CER,CHIP
C3046,C3072,C3084	2203-007796	C-CER,CHIP
C3087,C3088,C3089	2203-007796	C-CER,CHIP
C3093,C3094,C3096	2203-007796	C-CER,CHIP
C3097,C3102,C4002	2203-007796	C-CER,CHIP
C4006,C4007,C4008	2203-007796	C-CER,CHIP
C4009,C4010,C4014	2203-007796	C-CER,CHIP
C4015,C4018,C4019	2203-007796	C-CER,CHIP
C4020,C4021,C4026	2203-007796	C-CER,CHIP
C4029,C4030,C4033	2203-007796	C-CER,CHIP
C4034,C4037,C4038	2203-007796	C-CER,CHIP
C4044,C4045,C4052	2203-007796	C-CER,CHIP
C4053,C4054,C4055	2203-007796	C-CER,CHIP
C4056,C4062,C4063	2203-007796	C-CER,CHIP
C4065,C4066,C4067	2203-007796	C-CER,CHIP
C4070,C4071,C4072	2203-007796	C-CER,CHIP
C4073,C4075,C4076	2203-007796	C-CER,CHIP
C4077,C4079,C4080	2203-007796	C-CER,CHIP
C4081,C4082,C4083	2203-007796	C-CER,CHIP
C4088,C4089,C4090	2203-007796	C-CER,CHIP
C4091,C4092,C4093	2203-007796	C-CER,CHIP
C4094,C5008,C5009	2203-007796	C-CER,CHIP
C5013,C5015,C5016	2203-007796	C-CER,CHIP
C5017,C5018,C5019	2203-007796	C-CER,CHIP
C5020,C5024,C5025	2203-007796	C-CER,CHIP
C5026,C5030,C5073	2203-007796	C-CER,CHIP
C5085,C5093,C5101	2203-007796	C-CER,CHIP
C5102,C5104,C5107	2203-007796	C-CER,CHIP
C5108,C5110,C5128	2203-007796	C-CER,CHIP
C5134,C5166,C6002	2203-007796	C-CER,CHIP
C6020,C6023,C6024	2203-007796	C-CER,CHIP
C7001,C7005,C7011	2203-007796	C-CER,CHIP
C7013,C7015,C7020	2203-007796	C-CER,CHIP
C7022,C7037,C7038	2203-007796	C-CER,CHIP
C7039,C7287,C7293	2203-007796	C-CER,CHIP

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5. MAIN Electrical Parts List

C7294,C7295,C7297	2203-007796	C-CER,CHIP
U4001	2203-007796	C-CER,CHIP
C3091	2203-008097	C-CER,CHIP
C5079	2203-008158	C-CER,CHIP
C2058,C3005,C3016	2203-008242	C-CER,CHIP
C4001,C4003,C4004	2203-008242	C-CER,CHIP
C4017,C4043,C5000	2203-008242	C-CER,CHIP
C5002,C5004,C5007	2203-008242	C-CER,CHIP
C5011,C5012,C5021	2203-008242	C-CER,CHIP
C5022,C5023,C5027	2203-008242	C-CER,CHIP
C6005	2203-008242	C-CER,CHIP
C3058,L1003	2203-008394	C-CER,CHIP
C6031	2203-008654	C-CER,CHIP
C2057,C3073,C3092	2203-008860	C-CER,CHIP
C3095,C5028,C5100	2203-008860	C-CER,CHIP
C5121,C5133,C6006	2203-008860	C-CER,CHIP
C6008,C6012,C6013	2203-008860	C-CER,CHIP
C7016,C7032,C7040	2203-008860	C-CER,CHIP
C7041,C7042	2203-008860	C-CER,CHIP
C1013,C1069,C1071	2203-008876	C-CER,CHIP
C1098,C1105,C3011	2203-008876	C-CER,CHIP
C5075,C5098,C5119	2203-008876	C-CER,CHIP
C6009,C6025,C6029	2203-008876	C-CER,CHIP
C7034	2203-008876	C-CER,CHIP
C4060,C4061,C4086	2203-009328	C-CER,CHIP
C5039,C5041,C5042	2203-009328	C-CER,CHIP
C5047,C5052,C5060	2203-009328	C-CER,CHIP
C5063,C5074	2203-009328	C-CER,CHIP
C5003	2203-009537	C-CER,CHIP
C5069,C5077,C6001	2203-009618	C-CER,CHIP
C7029	2203-009618	C-CER,CHIP
C2009,C5035,C5044	2203-009733	C-CER,CHIP
C5050,C5055,C5059	2203-009733	C-CER,CHIP
C5072,C5081,C5091	2203-009733	C-CER,CHIP
C5152,C6007,C6030	2203-009733	C-CER,CHIP
C7002,C7012,C7021	2203-009733	C-CER,CHIP
C7023,C7024,C7025	2203-009733	C-CER,CHIP
C7043,C7044,C7045	2203-009733	C-CER,CHIP
C7046,C7047,C7048	2203-009733	C-CER,CHIP
C7049,C7050,C7051	2203-009733	C-CER,CHIP

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C7054,C7055,C7056	2203-009733	C-CER,CHIP
C7060,C7061,C7062	2203-009733	C-CER,CHIP
C2053	2203-010075	C-CER,CHIP
C5058	2203-010085	C-CER,CHIP
C1057,L1033,L1049	2703-002649	INDUCTOR-SMD
C1055,C1094,C1124	2703-002842	INDUCTOR-SMD
L1061,L2009,L2010	2703-002842	INDUCTOR-SMD
L2012,L2032	2703-002842	INDUCTOR-SMD
C1038,C1079	2703-002900	INDUCTOR-SMD
C1028,C1078,C1104	2703-002901	INDUCTOR-SMD
L1011,L1060,L3027	2703-002901	INDUCTOR-SMD
C1040,C1115,C1117	2703-002903	INDUCTOR-SMD
C1127,C1134,L1009	2703-002903	INDUCTOR-SMD
L3004,L3010,L3013	2703-002903	INDUCTOR-SMD
L5014,L5015	2703-002903	INDUCTOR-SMD
C1064,C1111	2703-002955	INDUCTOR-SMD
C1066	2703-002958	INDUCTOR-SMD
L2031	2703-002999	INDUCTOR-SMD
L3000	2703-003476	INDUCTOR-SMD
C1034,C3059,L1015	2703-003771	INDUCTOR-SMD
L1021	2703-003771	INDUCTOR-SMD
C1095,C1119,L1050	2703-003970	INDUCTOR-SMD
L3014	2703-003970	INDUCTOR-SMD
C1004	2703-004000	INDUCTOR-SMD
C1149,C1152,C2068	2703-004012	INDUCTOR-SMD
C3027,C3061,L1007	2703-004012	INDUCTOR-SMD
L1070,L1072	2703-004012	INDUCTOR-SMD
C1005,C1051,L1004	2703-004013	INDUCTOR-SMD
L1068,L3015	2703-004013	INDUCTOR-SMD
C1059,C2002,C3056	2703-004014	INDUCTOR-SMD
L1002,L1028,L1031	2703-004014	INDUCTOR-SMD
L2013,L2041,L3001	2703-004014	INDUCTOR-SMD
L3005	2703-004014	INDUCTOR-SMD
L1051	2703-004018	INDUCTOR-SMD
C2003,C2015,C2018	2703-004032	INDUCTOR-SMD
L1052,L1054,L1085	2703-004032	INDUCTOR-SMD
L2007	2703-004032	INDUCTOR-SMD
C1125,C1153,L1029	2703-004033	INDUCTOR-SMD
L1062	2703-004033	INDUCTOR-SMD
C1073,C1100,L1034	2703-004034	INDUCTOR-SMD

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5. MAIN Electrical Parts List

L1073	2703-004034	INDUCTOR-SMD
C2007,C2013,C2016	2703-004035	INDUCTOR-SMD
L1032,L1046,L1057	2703-004035	INDUCTOR-SMD
L2042	2703-004035	INDUCTOR-SMD
C1118,C2065,L1017	2703-004036	INDUCTOR-SMD
L2029	2703-004036	INDUCTOR-SMD
C2014,L1039,L1042	2703-004037	INDUCTOR-SMD
L1045,L2002,L2023	2703-004037	INDUCTOR-SMD
L2038	2703-004037	INDUCTOR-SMD
L1047,L3002	2703-004038	INDUCTOR-SMD
C2060,L1016,L1024	2703-004171	INDUCTOR-SMD
L2001,L2028	2703-004171	INDUCTOR-SMD
C1008,C2019	2703-004286	INDUCTOR-SMD
L1076,L2073,L2074	2703-004300	INDUCTOR-SMD
L1013,L1035	2703-004317	INDUCTOR-SMD
C3054	2703-004328	INDUCTOR-SMD
C1002,C1089,L3016	2703-004367	INDUCTOR-SMD
L3026,L3028	2703-004368	INDUCTOR-SMD
L1056	2703-004408	INDUCTOR-SMD
L1075	2703-004703	INDUCTOR-SMD
L1006,L1030	2703-004763	INDUCTOR-SMD
C2017,C2021,L2014	2703-004764	INDUCTOR-SMD
L1019	2703-004853	INDUCTOR-SMD
L1025	2703-004862	INDUCTOR-SMD
C1001,C1150,L1067	2703-005058	INDUCTOR-SMD
L2015,L2040,L3017	2703-005058	INDUCTOR-SMD
L2008	2703-005066	INDUCTOR-SMD
C1016,C1090,L1012	2703-005085	INDUCTOR-SMD
L1063	2703-005085	INDUCTOR-SMD
C1092,C1133,L1038	2703-005088	INDUCTOR-SMD
C1102	2703-005098	INDUCTOR-SMD
L6001	2703-005200	INDUCTOR-SMD
L5001,L5003,L5004	2703-005201	INDUCTOR-SMD
L5005,L5011	2703-005201	INDUCTOR-SMD
L7009	2703-005224	INDUCTOR-SMD
L1008	2703-005366	INDUCTOR-SMD
L7006	2703-005418	INDUCTOR-SMD
L7007	2703-005419	INDUCTOR-SMD
L5002,L5006,L5007	2703-005689	INDUCTOR-SMD
L5009,L5012	2703-005689	INDUCTOR-SMD

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OSC5000	2801-005393	OSCILLATOR
OSC2000	2805-001118	OSCILLATOR
C4028,C4031,C4057	2901-001690	FILTER
C4058,C4059,C4084	2901-001690	FILTER
C4085	2901-001690	FILTER
F1011	2904-002241	FILTER
F2002	2904-002257	FILTER
F1008	2904-002285	FILTER
F2003	2904-002326	FILTER
F2000	2904-002339	FILTER
F3002,F3003	2904-002355	FILTER
F1006	2904-002397	FILTER
F2001	2904-002405	FILTER
U3001	2904-002409	FILTER
F1007	2910-000364	FILTER
F1010	2910-000390	FILTER
F1003	2910-000404	FILTER
F1009	2910-000412	FILTER
U2000	2911-000430	FILTER
U1001	2911-000452	FILTER
MIC6000	3003-001225	MIC
L3020,L3021,R6011	3301-002078	CORE-FERRITE BEAD
L2005,L2006,L6008	3301-002122	CORE-FERRITE BEAD
L6010	3301-002122	CORE-FERRITE BEAD
L6003,L6004,L6005	3301-002235	CORE-FERRITE BEAD
L6006,L6007,L6009	3301-002235	CORE-FERRITE BEAD
L6013,L6014	3301-002235	CORE-FERRITE BEAD
L1000,L2027,L2037	3301-002237	CORE-FERRITE BEAD
L2017,L2019,L2020	3301-002238	CORE-FERRITE BEAD
L2022,L3012,L6000	3301-002238	CORE-FERRITE BEAD
L6002	3301-002238	CORE-FERRITE BEAD
L2036	3301-002242	CORE-FERRITE BEAD
L3022	3301-002248	CORE-FERRITE BEAD
L2016,L2018,L2021	3301-002312	CORE-FERRITE BEAD
L7005,L7008,L7010	3301-002312	CORE-FERRITE BEAD
L5008	3301-002331	CORE-FERRITE BEAD
L7000,L7001,L7004	3301-002394	CORE-FERRITE BEAD
L7011	3301-002394	CORE-FERRITE BEAD
RFS1001	3705-001708	CONNECTOR
RFS1000	3705-001937	CONNECTOR

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5. MAIN Electrical Parts List

SIM4UP	3709-001932	CONNECTOR
SIM1	3709-001933	CONNECTOR
SIM2,SIM3	3709-001934	CONNECTOR
SOC7000	3710-003871	CONNECTOR
HDC6000	3710-004285	CONNECTOR
SOC7001	3710-004448	CONNECTOR
BTC5000	3711-008847	CONNECTOR
HDC7000,HDC7001	3711-008931	CONNECTOR
ANT1000,ANT2000	3712-001621	CONNECTOR
ANT2001,ANT2004	3712-001621	CONNECTOR
ANT2008,ANT2010	3712-001621	CONNECTOR
ANT2005,ANT2006	3712-001626	CONNECTOR
ANT2007	3712-001626	CONNECTOR
ANT5002,ANT5005	3712-001633	CONNECTOR
ANT6000,ANT6001	3712-001666	CONNECTOR
ANT5000,ANT5001	3712-001694	CONNECTOR
ANT5003,ANT5004	3712-001694	CONNECTOR
ANT5006	3712-001694	CONNECTOR
ANT3000,ANT3003	3712-001714	CONNECTOR
F2005	4709-002196	RF-MODULE
F1002	4709-002387	RF-MODULE
F2004	4709-002484	RF-MODULE
F1001	4709-002589	RF-MODULE
CN7000	GH62-00042A	SUS
SC7004	GH63-16791A	SHIELD-CAN
SC7000	GH63-16890A	SHIELD-CAN
SC7002	GH63-17697A	SHIELD-CAN
SC7003	GH63-17699A	SHIELD-CAN
SC7001	GH98-44895A	SHIELD-CAN
SC7001SP	GH02-19641A	TAPE

5. MAIN Electrical Parts List

[SM-A307GN]

Parts Code	Design Loc	Description
D5001	0401-001110	DIODE
D5000	0404-001250	DIODE
ZD5002,ZD5003,ZD6000	0406-001561	DIODE
ZD6001,ZD6005	0406-001561	DIODE
ZD5004,ZD6013	0406-001592	DIODE
D6000	0406-001808	DIODE
ZD6021,ZD6022	0406-001809	DIODE
ZD1000,ZD5001	0406-001829	DIODE
Q5000	0505-003618	DIODE
LED5000	0601-003768	LED
U1006	1001-001844	IC
U1004	1001-001970	IC
U1002,U2003	1001-002042	IC
U1003	1001-002063	IC
U3002	1001-002065	IC
U2004	1003-002802	IC
C3075	1009-001076	IC
UCP400UP	1105-002915	MEMORY
UME5000	1107-002633	MEMORY
U3007	1201-003869	IC
U1007	1201-004029	IC
U1005	1201-004209	IC
PAM1000	1201-004237	IC
U6000	1201-004245	IC
U3011,U5007	1203-008249	IC
U7001	1203-008322	IC
U2001	1203-008693	IC
U7006	1203-008865	IC
U3000,U3013,U7003	1203-008867	IC
U3015,U7002,U7004	1203-008872	IC
U7000	1203-008989	IC
U5002	1203-009211	IC
U5003	1203-009213	IC
U7007	1203-009220	IC
U7005	1203-009221	IC
U6002	1203-009320	IC
U2002	1205-005767	IC
U3003	1205-005860	IC

5. MAIN Electrical Parts List

UCP400	1205-006074	IC
U3004	1205-006178	IC
U3014	1209-002413	IC
U3012	1209-002450	IC
U1008	1209-002555	IC
U3009	1209-002628	IC
U3016	1209-002629	IC
TH1000,TH4000,VR5000	1404-001724	THERMISTOR
V7000	1405-001429	THERMISTOR
R6034,R6035	2007-003015	R-CHIP
R6003,R6004	2007-007190	R-CHIP
R4231	2007-007317	R-CHIP
R2001,R2002,R3003	2007-007741	R-CHIP
R4012,R4015,R4016	2007-007741	R-CHIP
R4027,R4031,R5001	2007-007741	R-CHIP
R5022,R5024,R5027	2007-007741	R-CHIP
R6002	2007-007741	R-CHIP
R6025	2007-007798	R-CHIP
R5111	2007-007942	R-CHIP
R5112	2007-007946	R-CHIP
R4041,R5011,R5023	2007-008419	R-CHIP
R5020,R5021,R5025	2007-008483	R-CHIP
L7003,R5010,R5015	2007-008531	R-CHIP
R7000,R7001	2007-008531	R-CHIP
R1011	2007-008587	R-CHIP
R1004,R4006,R4008	2007-008588	R-CHIP
R4011,R4017,R4018	2007-008588	R-CHIP
R4020,R4021,R4022	2007-008588	R-CHIP
R4023,R4024,R4026	2007-008588	R-CHIP
R4030,R4032,R4033	2007-008588	R-CHIP
R4034,R4035,R4036	2007-008588	R-CHIP
R4037,R4107,R4108	2007-008588	R-CHIP
R4228,R6028	2007-008588	R-CHIP
R6012	2007-008800	R-CHIP
R3005,R5029	2007-009111	R-CHIP
R1007,R4001,R4002	2007-009157	R-CHIP
R4003,R4010,R4047	2007-009157	R-CHIP
R5009,R5105,R6000	2007-009157	R-CHIP
R6009,R6020	2007-009157	R-CHIP
R5008,R5028	2007-009171	R-CHIP

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5. MAIN Electrical Parts List

R6006	2007-009212	R-CHIP
R5019,R6001	2007-009352	R-CHIP
R6007	2007-009408	R-CHIP
R6015,R6038	2007-009410	R-CHIP
R3000	2007-009766	R-CHIP
R6014	2007-009793	R-CHIP
R5007	2007-009801	R-CHIP
C1091,R1000,R1001	2007-009805	R-CHIP
R1002,R1003,R2000	2007-009805	R-CHIP
R4004,R4005,R4007	2007-009920	R-CHIP
R4009	2007-009920	R-CHIP
R3001,R3002,R6008	2007-009969	R-CHIP
R5000	2007-010685	R-CHIP
R4019,R4200,R4201	2007-011043	R-CHIP
R4202,R4203	2007-011043	R-CHIP
R6010	2007-011532	R-CHIP
L1081,L1082,R2003	2007-011648	R-CHIP
R6016	2007-011648	R-CHIP
R5002	2007-012068	R-CHIP
C3038	2203-000233	C-CER,CHIP
C5173,C5174	2203-000489	C-CER,CHIP
C3108	2203-001072	C-CER,CHIP
C3034,C3041	2203-001239	C-CER,CHIP
C5178	2203-005344	C-CER,CHIP
C1015,C1017,C1021	2203-005682	C-CER,CHIP
C1022,C1060,C5117	2203-005682	C-CER,CHIP
C5123,C5165,C7300	2203-005682	C-CER,CHIP
L2011	2203-005682	C-CER,CHIP
C1063,C1141,C3033	2203-005725	C-CER,CHIP
C7004,C7299,L1005	2203-005725	C-CER,CHIP
C6000,C6004,C6010	2203-005729	C-CER,CHIP
C6015,C6018,C6019	2203-005729	C-CER,CHIP
C2049,C6045,C6049	2203-005731	C-CER,CHIP
C1072,C5049,C6016	2203-005732	C-CER,CHIP
C6017,C6022,C6028	2203-005732	C-CER,CHIP
C3057,L2000	2203-005734	C-CER,CHIP
C1000,C1009,C1010	2203-005736	C-CER,CHIP
C1014,C1018,C1020	2203-005736	C-CER,CHIP
C1048,C1052,C1080	2203-005736	C-CER,CHIP
C1083,C1084,C1085	2203-005736	C-CER,CHIP

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5. MAIN Electrical Parts List

C1123,C1137,C1138	2203-005736	C-CER,CHIP
C1140,C1144,C1151	2203-005736	C-CER,CHIP
C1154,C1155,C2040	2203-005736	C-CER,CHIP
C2043,C2047,C2062	2203-005736	C-CER,CHIP
C2071,C2075,C3003	2203-005736	C-CER,CHIP
C3014,C3029,C6058	2203-005736	C-CER,CHIP
L1044,L3007	2203-005736	C-CER,CHIP
C2010	2203-005740	C-CER,CHIP
C1061,C1077,C1081	2203-005777	C-CER,CHIP
C1120,C1121,C1143	2203-005777	C-CER,CHIP
L2030	2203-005777	C-CER,CHIP
C1056,C1065,C1088	2203-005789	C-CER,CHIP
C1126,C1142,C1146	2203-005789	C-CER,CHIP
C1147,C2004,C2069	2203-005789	C-CER,CHIP
L1010,L1041,L1055	2203-005789	C-CER,CHIP
L1077	2203-005789	C-CER,CHIP
C1109,C1110	2203-005792	C-CER,CHIP
C1011,C2000	2203-005806	C-CER,CHIP
C6014	2203-006121	C-CER,CHIP
C1087,C5137	2203-006187	C-CER,CHIP
C5176	2203-006194	C-CER,CHIP
C1054,C1107,C3025	2203-006305	C-CER,CHIP
L1040	2203-006305	C-CER,CHIP
C6042	2203-006379	C-CER,CHIP
C2045,C3035,C3037	2203-006400	C-CER,CHIP
C3039,C3105,C4013	2203-006400	C-CER,CHIP
C6027	2203-006400	C-CER,CHIP
C1122,L1059	2203-006410	C-CER,CHIP
C2033,C3066,C3078	2203-006423	C-CER,CHIP
C3098,C3099,C4005	2203-006423	C-CER,CHIP
C4012,C5120,C5141	2203-006423	C-CER,CHIP
C5160,C5172,C5175	2203-006423	C-CER,CHIP
C6048,C7298	2203-006423	C-CER,CHIP
C1053,C1068,C1074	2203-006556	C-CER,CHIP
C1099,C1139,C5045	2203-006556	C-CER,CHIP
C1093,C3062,C5138	2203-006604	C-CER,CHIP
L1036	2203-006604	C-CER,CHIP
C1113	2203-006611	C-CER,CHIP
C6021	2203-006648	C-CER,CHIP
L1053	2203-006665	C-CER,CHIP

5. MAIN Electrical Parts List

C4064	2203-006668	C-CER,CHIP
C1024,C2063,L1037	2203-006674	C-CER,CHIP
C1114	2203-006707	C-CER,CHIP
C1012,C1131,C2001	2203-006839	C-CER,CHIP
C4035,C5092,C5095	2203-006839	C-CER,CHIP
C5135	2203-006839	C-CER,CHIP
C4204,C4205,C4206	2203-006846	C-CER,CHIP
C4207	2203-006846	C-CER,CHIP
C1026	2203-006896	C-CER,CHIP
C2022,C2025,C2027	2203-006979	C-CER,CHIP
C2028,C2032,C2035	2203-006979	C-CER,CHIP
C2036,C2038,C2048	2203-006979	C-CER,CHIP
C2050	2203-006979	C-CER,CHIP
C2006,C3067,C7007	2203-007194	C-CER,CHIP
C4022,C4025,C4050	2203-007210	C-CER,CHIP
C4051,C4068,C4087	2203-007210	C-CER,CHIP
C5125,C5126	2203-007210	C-CER,CHIP
C5036,C5038	2203-007235	C-CER,CHIP
C5083,C5097	2203-007271	C-CER,CHIP
C7147	2203-007279	C-CER,CHIP
C3100,C4039,C4078	2203-007317	C-CER,CHIP
C7000,C7006,C7018	2203-007317	C-CER,CHIP
C7031,C7033,C7035	2203-007317	C-CER,CHIP
C7296	2203-007317	C-CER,CHIP
C2030	2203-007391	C-CER,CHIP
C5070	2203-007392	C-CER,CHIP
C1007,C1075,C2012	2203-007393	C-CER,CHIP
C3028,C3101,C3106	2203-007393	C-CER,CHIP
C3107,C4011,C4023	2203-007393	C-CER,CHIP
C4024,C4074,C5032	2203-007393	C-CER,CHIP
C5037,C5040,C5043	2203-007393	C-CER,CHIP
C5048,C5051,C5054	2203-007393	C-CER,CHIP
C5065,C5066,C5071	2203-007393	C-CER,CHIP
C5076,C5084,C5087	2203-007393	C-CER,CHIP
C5096,C5118,C5124	2203-007393	C-CER,CHIP
C5127,C5136,C5168	2203-007393	C-CER,CHIP
C5169,C5170,C5171	2203-007393	C-CER,CHIP
C6003	2203-007450	C-CER,CHIP
C5086,C6032	2203-007456	C-CER,CHIP
C2024,C2029,C2031	2203-007474	C-CER,CHIP

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5. MAIN Electrical Parts List

C2039,C4047,C4049	2203-007474	C-CER,CHIP
C4069,C5056,C7027	2203-007474	C-CER,CHIP
C7028	2203-007474	C-CER,CHIP
C2011,C2023,C2026	2203-007796	C-CER,CHIP
C2034,C2037,C3000	2203-007796	C-CER,CHIP
C3002,C3008,C3013	2203-007796	C-CER,CHIP
C3018,C3022,C3031	2203-007796	C-CER,CHIP
C3046,C3084,C3093	2203-007796	C-CER,CHIP
C3094,C3096,C3097	2203-007796	C-CER,CHIP
C3102,C4002,C4006	2203-007796	C-CER,CHIP
C4007,C4008,C4009	2203-007796	C-CER,CHIP
C4010,C4014,C4015	2203-007796	C-CER,CHIP
C4018,C4019,C4020	2203-007796	C-CER,CHIP
C4021,C4026,C4029	2203-007796	C-CER,CHIP
C4030,C4033,C4034	2203-007796	C-CER,CHIP
C4037,C4038,C4044	2203-007796	C-CER,CHIP
C4045,C4052,C4053	2203-007796	C-CER,CHIP
C4054,C4055,C4056	2203-007796	C-CER,CHIP
C4062,C4063,C4065	2203-007796	C-CER,CHIP
C4066,C4067,C4070	2203-007796	C-CER,CHIP
C4071,C4072,C4073	2203-007796	C-CER,CHIP
C4075,C4076,C4077	2203-007796	C-CER,CHIP
C4079,C4080,C4081	2203-007796	C-CER,CHIP
C4082,C4083,C4088	2203-007796	C-CER,CHIP
C4089,C4090,C4091	2203-007796	C-CER,CHIP
C4092,C4093,C4094	2203-007796	C-CER,CHIP
C5008,C5009,C5013	2203-007796	C-CER,CHIP
C5015,C5016,C5017	2203-007796	C-CER,CHIP
C5018,C5019,C5020	2203-007796	C-CER,CHIP
C5024,C5025,C5026	2203-007796	C-CER,CHIP
C5030,C5073,C5085	2203-007796	C-CER,CHIP
C5093,C5101,C5102	2203-007796	C-CER,CHIP
C5104,C5107,C5108	2203-007796	C-CER,CHIP
C5110,C5128,C5134	2203-007796	C-CER,CHIP
C5166,C6002,C6020	2203-007796	C-CER,CHIP
C6023,C6024,C7001	2203-007796	C-CER,CHIP
C7005,C7011,C7013	2203-007796	C-CER,CHIP
C7015,C7020,C7022	2203-007796	C-CER,CHIP
C7037,C7038,C7039	2203-007796	C-CER,CHIP
C7287,C7293,C7294	2203-007796	C-CER,CHIP

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5. MAIN Electrical Parts List

C7295,C7297,U4001	2203-007796	C-CER,CHIP
C5079	2203-008158	C-CER,CHIP
C2058,C3005,C3016	2203-008242	C-CER,CHIP
C4001,C4003,C4004	2203-008242	C-CER,CHIP
C4017,C4043,C5000	2203-008242	C-CER,CHIP
C5002,C5004,C5007	2203-008242	C-CER,CHIP
C5011,C5012,C5021	2203-008242	C-CER,CHIP
C5022,C5023,C5027	2203-008242	C-CER,CHIP
C6005	2203-008242	C-CER,CHIP
C3058,L1003	2203-008394	C-CER,CHIP
C6031	2203-008654	C-CER,CHIP
C2057,C3006,C3092	2203-008860	C-CER,CHIP
C3095,C3103,C3104	2203-008860	C-CER,CHIP
C5028,C5100,C5121	2203-008860	C-CER,CHIP
C5133,C6006,C6008	2203-008860	C-CER,CHIP
C6012,C6013,C7016	2203-008860	C-CER,CHIP
C7032,C7040,C7041	2203-008860	C-CER,CHIP
C7042	2203-008860	C-CER,CHIP
C1013,C1069,C1071	2203-008876	C-CER,CHIP
C1098,C1105,C3011	2203-008876	C-CER,CHIP
C5075,C5098,C5119	2203-008876	C-CER,CHIP
C6009,C6025,C6029	2203-008876	C-CER,CHIP
C7034	2203-008876	C-CER,CHIP
C3036,C3040	2203-009167	C-CER,CHIP
C4060,C4061,C4086	2203-009328	C-CER,CHIP
C5039,C5041,C5042	2203-009328	C-CER,CHIP
C5047,C5052,C5060	2203-009328	C-CER,CHIP
C5063,C5074	2203-009328	C-CER,CHIP
C5003	2203-009537	C-CER,CHIP
C5069,C5077,C6001	2203-009618	C-CER,CHIP
C7029	2203-009618	C-CER,CHIP
C2009,C5035,C5044	2203-009733	C-CER,CHIP
C5050,C5055,C5059	2203-009733	C-CER,CHIP
C5072,C5081,C5091	2203-009733	C-CER,CHIP
C5152,C6007,C6030	2203-009733	C-CER,CHIP
C7002,C7012,C7021	2203-009733	C-CER,CHIP
C7023,C7024,C7025	2203-009733	C-CER,CHIP
C7043,C7044,C7045	2203-009733	C-CER,CHIP
C7046,C7047,C7048	2203-009733	C-CER,CHIP
C7049,C7050,C7051	2203-009733	C-CER,CHIP

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5. MAIN Electrical Parts List

C7054,C7055,C7056	2203-009733	C-CER,CHIP
C7060,C7061,C7062	2203-009733	C-CER,CHIP
C2053	2203-010075	C-CER,CHIP
C5058	2203-010085	C-CER,CHIP
C1057,L1033,L1049	2703-002649	INDUCTOR-SMD
C1055,C1094,C1124	2703-002842	INDUCTOR-SMD
L1061,L2009,L2010	2703-002842	INDUCTOR-SMD
L2012,L2032	2703-002842	INDUCTOR-SMD
C1038,C1079	2703-002900	INDUCTOR-SMD
C1028,C1078,C1104	2703-002901	INDUCTOR-SMD
L1011,L1060,L3027	2703-002901	INDUCTOR-SMD
C1040,C1115,C1117	2703-002903	INDUCTOR-SMD
C1127,C1134,L1009	2703-002903	INDUCTOR-SMD
L3004,L3010,L3013	2703-002903	INDUCTOR-SMD
L5014,L5015	2703-002903	INDUCTOR-SMD
C1064,C1111	2703-002955	INDUCTOR-SMD
C1066	2703-002958	INDUCTOR-SMD
L2031	2703-002999	INDUCTOR-SMD
L3000	2703-003476	INDUCTOR-SMD
C1034,C3059,L1015	2703-003771	INDUCTOR-SMD
L1021	2703-003771	INDUCTOR-SMD
C1095,C1119,L1050	2703-003970	INDUCTOR-SMD
L3014	2703-003970	INDUCTOR-SMD
C1004	2703-004000	INDUCTOR-SMD
C1149,C1152,C2068	2703-004012	INDUCTOR-SMD
C3027,C3061,L1007	2703-004012	INDUCTOR-SMD
L1070,L1072	2703-004012	INDUCTOR-SMD
C1005,C1051,L1004	2703-004013	INDUCTOR-SMD
L1068,L3015	2703-004013	INDUCTOR-SMD
C1059,C2002,C3056	2703-004014	INDUCTOR-SMD
L1002,L1028,L1031	2703-004014	INDUCTOR-SMD
L2013,L2041,L3001	2703-004014	INDUCTOR-SMD
L3005	2703-004014	INDUCTOR-SMD
L1051	2703-004018	INDUCTOR-SMD
C2003,C2015,C2018	2703-004032	INDUCTOR-SMD
L1052,L1054,L1085	2703-004032	INDUCTOR-SMD
L2007	2703-004032	INDUCTOR-SMD
C1125,C1153,L1029	2703-004033	INDUCTOR-SMD
L1062	2703-004033	INDUCTOR-SMD
C1073,C1100,L1034	2703-004034	INDUCTOR-SMD

5. MAIN Electrical Parts List

L1073	2703-004034	INDUCTOR-SMD
C2007,C2013,C2016	2703-004035	INDUCTOR-SMD
L1032,L1046,L1057	2703-004035	INDUCTOR-SMD
L2042	2703-004035	INDUCTOR-SMD
C1118,C2065,L1017	2703-004036	INDUCTOR-SMD
L2029	2703-004036	INDUCTOR-SMD
C2014,L1039,L1042	2703-004037	INDUCTOR-SMD
L1045,L2002,L2023	2703-004037	INDUCTOR-SMD
L2038	2703-004037	INDUCTOR-SMD
L1047,L3002	2703-004038	INDUCTOR-SMD
C2060,L1016,L1024	2703-004171	INDUCTOR-SMD
L2001,L2028	2703-004171	INDUCTOR-SMD
C1008,C2019	2703-004286	INDUCTOR-SMD
L1076,L2073,L2074	2703-004300	INDUCTOR-SMD
L1013,L1035	2703-004317	INDUCTOR-SMD
C3054	2703-004328	INDUCTOR-SMD
C1002,C1089,L3016	2703-004367	INDUCTOR-SMD
L1056	2703-004408	INDUCTOR-SMD
L1075	2703-004703	INDUCTOR-SMD
L1006,L1030	2703-004763	INDUCTOR-SMD
C2017,C2021,L2014	2703-004764	INDUCTOR-SMD
L1019	2703-004853	INDUCTOR-SMD
L1025	2703-004862	INDUCTOR-SMD
C1001,C1150,L1067	2703-005058	INDUCTOR-SMD
L2015,L2040,L3017	2703-005058	INDUCTOR-SMD
L2008	2703-005066	INDUCTOR-SMD
C1016,C1090,L1012	2703-005085	INDUCTOR-SMD
L1063	2703-005085	INDUCTOR-SMD
C1092,C1133,L1038	2703-005088	INDUCTOR-SMD
C1102	2703-005098	INDUCTOR-SMD
L6001	2703-005200	INDUCTOR-SMD
L5001,L5003,L5004	2703-005201	INDUCTOR-SMD
L5005,L5011	2703-005201	INDUCTOR-SMD
L7009	2703-005224	INDUCTOR-SMD
L1008	2703-005366	INDUCTOR-SMD
L7006	2703-005418	INDUCTOR-SMD
L7007	2703-005419	INDUCTOR-SMD
L3003,L3008	2703-005555	INDUCTOR-SMD
L5002,L5006,L5007	2703-005689	INDUCTOR-SMD
L5009,L5012	2703-005689	INDUCTOR-SMD

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5. MAIN Electrical Parts List

OSC5000	2801-005393	OSCILLATOR
OSC2000	2805-001118	OSCILLATOR
C4028,C4031,C4057	2901-001690	FILTER
C4058,C4059,C4084	2901-001690	FILTER
C4085	2901-001690	FILTER
F1011	2904-002241	FILTER
F2002	2904-002257	FILTER
F1008	2904-002285	FILTER
F2003	2904-002326	FILTER
F2000	2904-002339	FILTER
F3002,F3003	2904-002355	FILTER
F1006	2904-002397	FILTER
F2001	2904-002405	FILTER
U3001	2904-002409	FILTER
F1007	2910-000364	FILTER
F1010	2910-000390	FILTER
F1003	2910-000404	FILTER
F1009	2910-000412	FILTER
U2000	2911-000430	FILTER
U1001	2911-000452	FILTER
MIC6000	3003-001225	MIC
L3020,L3021,R6011	3301-002078	CORE-FERRITE BEAD
L2005,L2006,L6008	3301-002122	CORE-FERRITE BEAD
L6010	3301-002122	CORE-FERRITE BEAD
L6003,L6004,L6005	3301-002235	CORE-FERRITE BEAD
L6006,L6007,L6009	3301-002235	CORE-FERRITE BEAD
L6013,L6014	3301-002235	CORE-FERRITE BEAD
L1000,L2027,L2037	3301-002237	CORE-FERRITE BEAD
L2017,L2019,L2020	3301-002238	CORE-FERRITE BEAD
L2022,L3012,L6000	3301-002238	CORE-FERRITE BEAD
L6002	3301-002238	CORE-FERRITE BEAD
L2036	3301-002242	CORE-FERRITE BEAD
L2016,L2018,L2021	3301-002312	CORE-FERRITE BEAD
L7005,L7008,L7010	3301-002312	CORE-FERRITE BEAD
L5008	3301-002331	CORE-FERRITE BEAD
L7000,L7001,L7004	3301-002394	CORE-FERRITE BEAD
L7011	3301-002394	CORE-FERRITE BEAD
RFS1001	3705-001708	CONNECTOR
RFS1000	3705-001937	CONNECTOR
SIM4UP	3709-001932	CONNECTOR

5. MAIN Electrical Parts List

SIM1	3709-001933	CONNECTOR
SIM2,SIM3	3709-001934	CONNECTOR
SOC7000	3710-003871	CONNECTOR
HDC6000	3710-004285	CONNECTOR
SOC7001	3710-004448	CONNECTOR
BTC5000	3711-008847	CONNECTOR
HDC7000,HDC7001	3711-008931	CONNECTOR
ANT1000,ANT2000	3712-001621	CONNECTOR
ANT2001,ANT2004	3712-001621	CONNECTOR
ANT2008,ANT2010	3712-001621	CONNECTOR
ANT2005,ANT2006	3712-001626	CONNECTOR
ANT2007	3712-001626	CONNECTOR
ANT5002,ANT5005	3712-001633	CONNECTOR
ANT6000,ANT6001	3712-001666	CONNECTOR
ANT5000,ANT5001	3712-001694	CONNECTOR
ANT5003,ANT5004	3712-001694	CONNECTOR
ANT5006	3712-001694	CONNECTOR
ANT3000,ANT3001	3712-001714	CONNECTOR
ANT3002,ANT3003	3712-001714	CONNECTOR
F2005	4709-002196	RF-MODULE
F1002	4709-002387	RF-MODULE
F2004	4709-002484	RF-MODULE
F1001	4709-002589	RF-MODULE
CN7000	GH62-00042A	SUS
SC7004	GH63-16791A	SHIELD-CAN
SC7000	GH63-16890A	SHIELD-CAN
SC7002	GH63-17697A	SHIELD-CAN
SC7003	GH63-17699A	SHIELD-CAN
SC7001	GH98-44895A	SHIELD-CAN
SC7001SP	GH02-19641A	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 : [GH39-01999A](#)

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



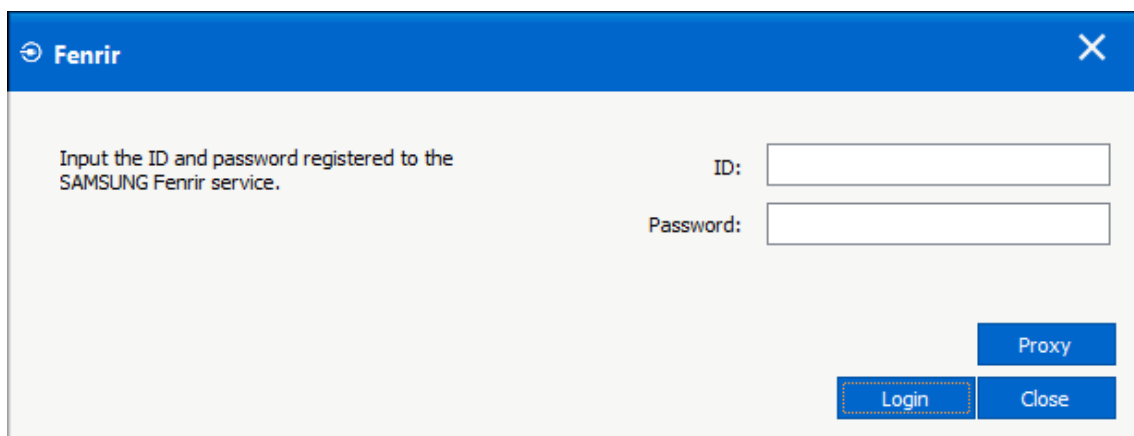
- SVH (Fenrir_Home) : It uses Home binary which does not have user data area in the memory when flashed to a device. (Keep user data)

- 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)

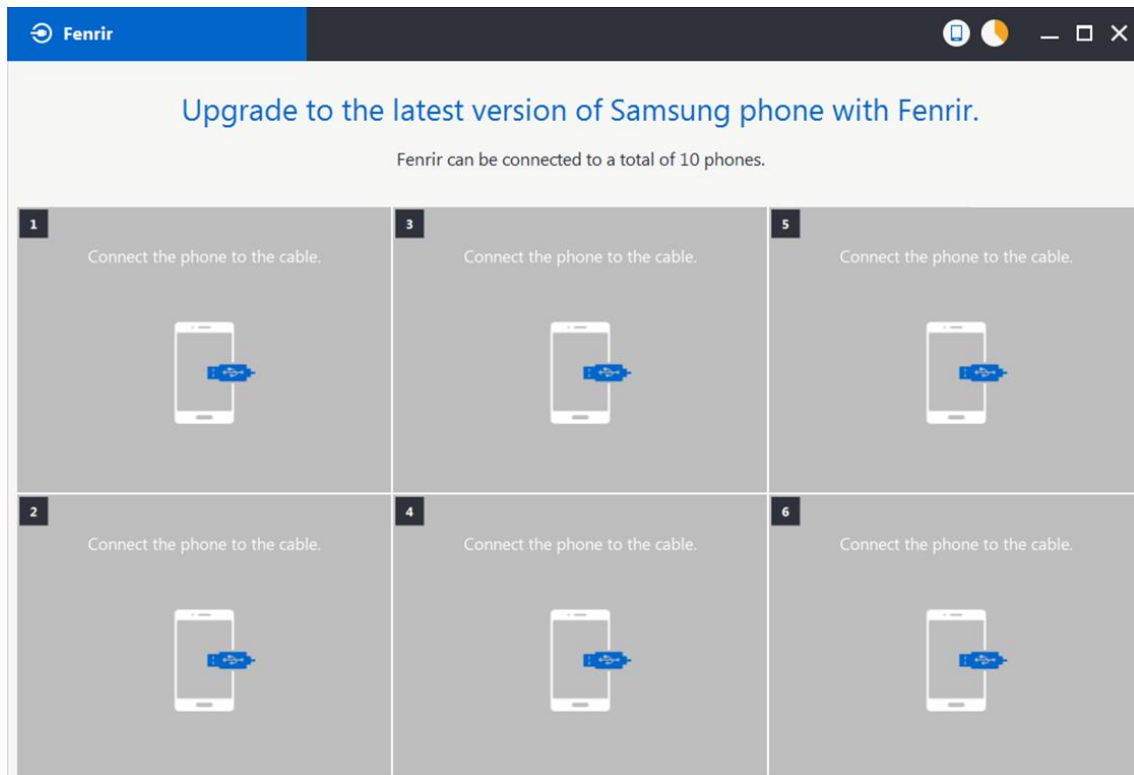
2) Input ID & password

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

A screenshot of the Fenrir software 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).

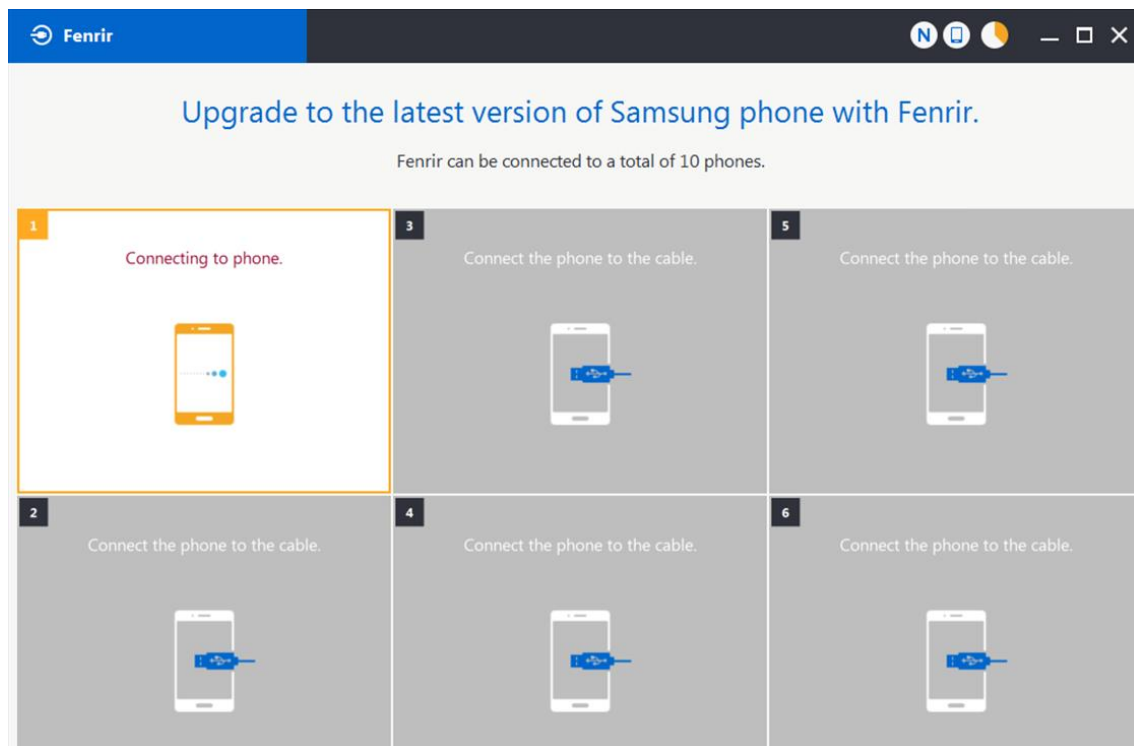
6. Level 1 Repair

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



4) Connect the device to PC via data cable.

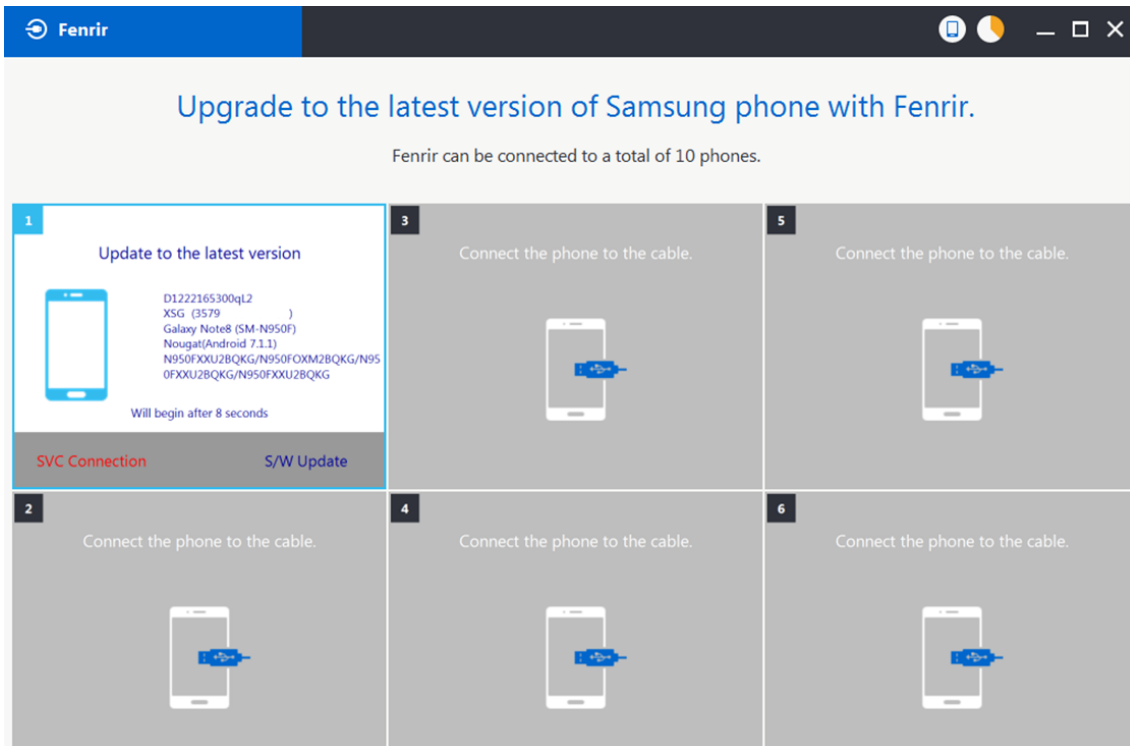
5) Upon USB connection, you will be presented with below screen.



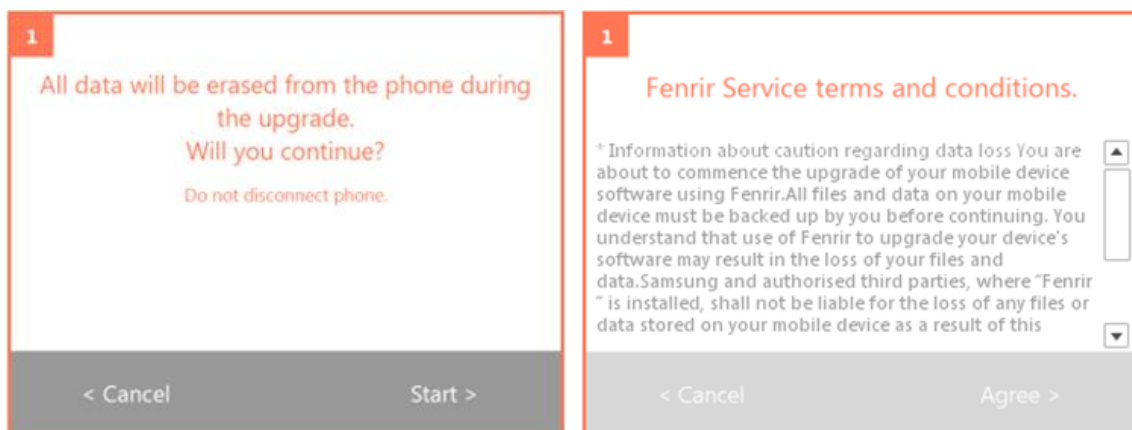
6. Level 1 Repair

=C

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)

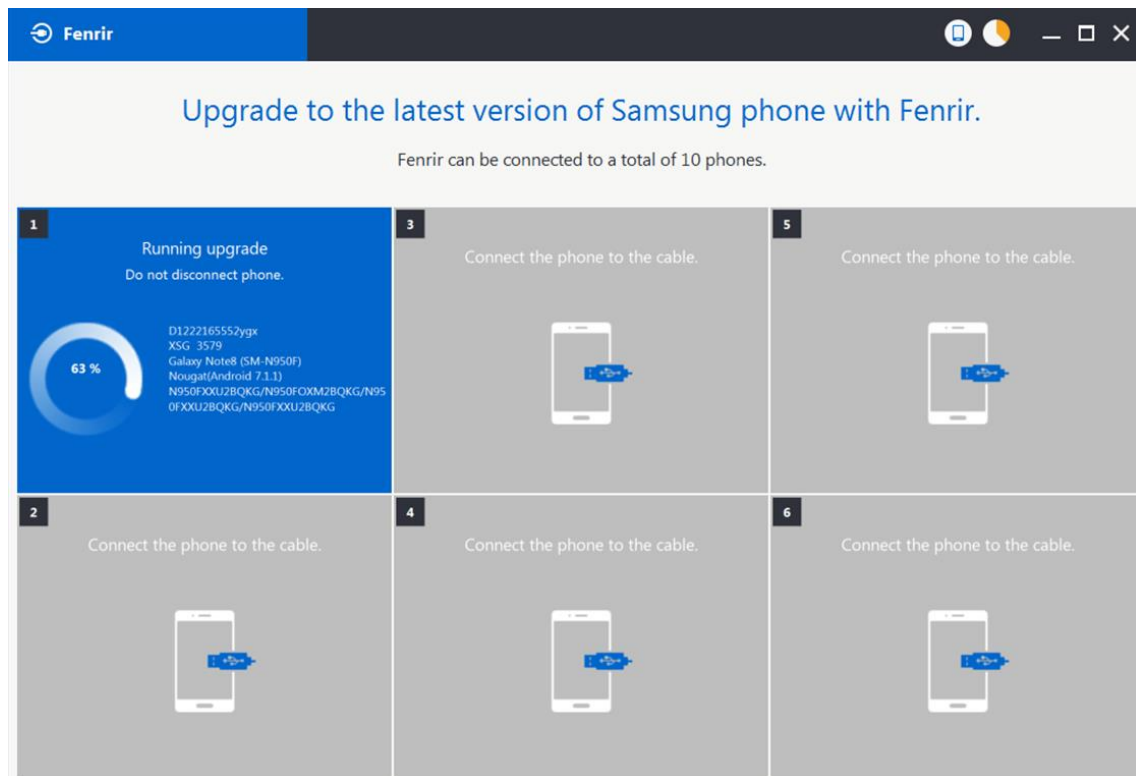


7) Once Fenrir starts, application will display the below screen. And select the Start button & Agree button.

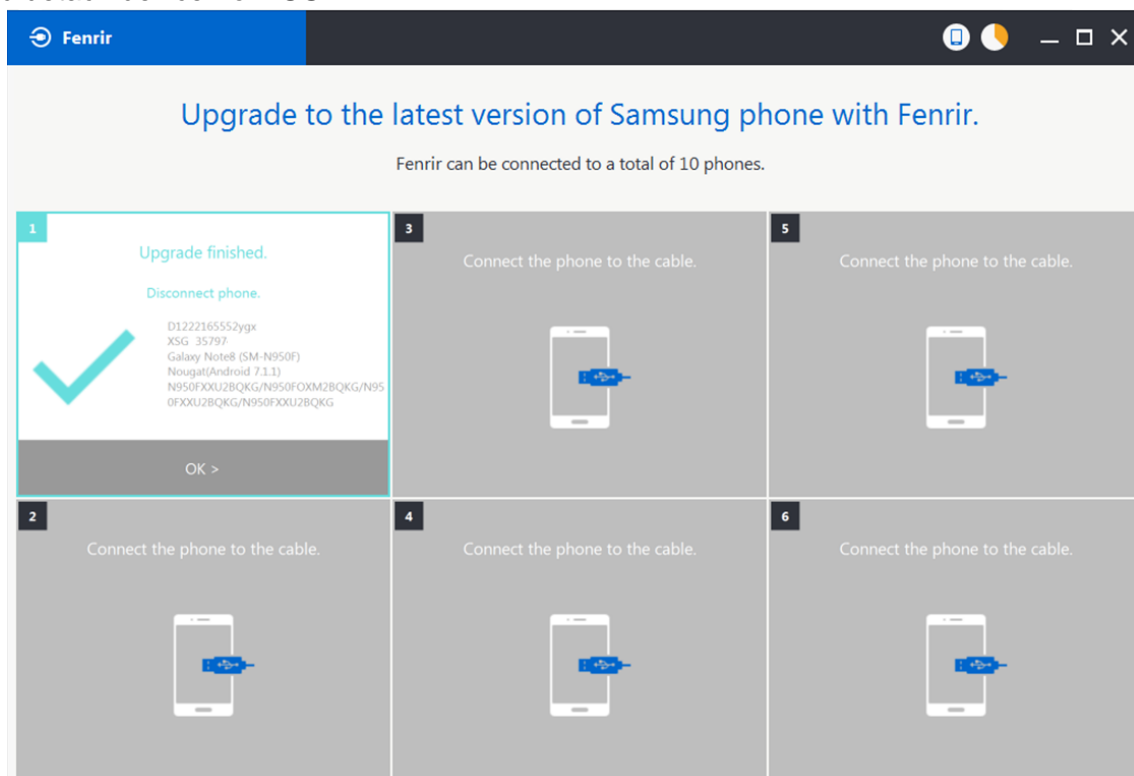


6. Level 1 Repair

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

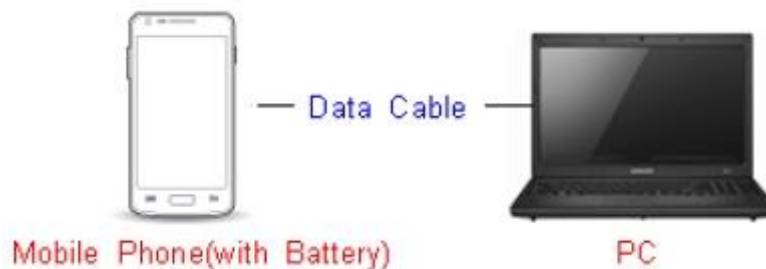
※ S/W Update via Fenrir is mandatory.

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

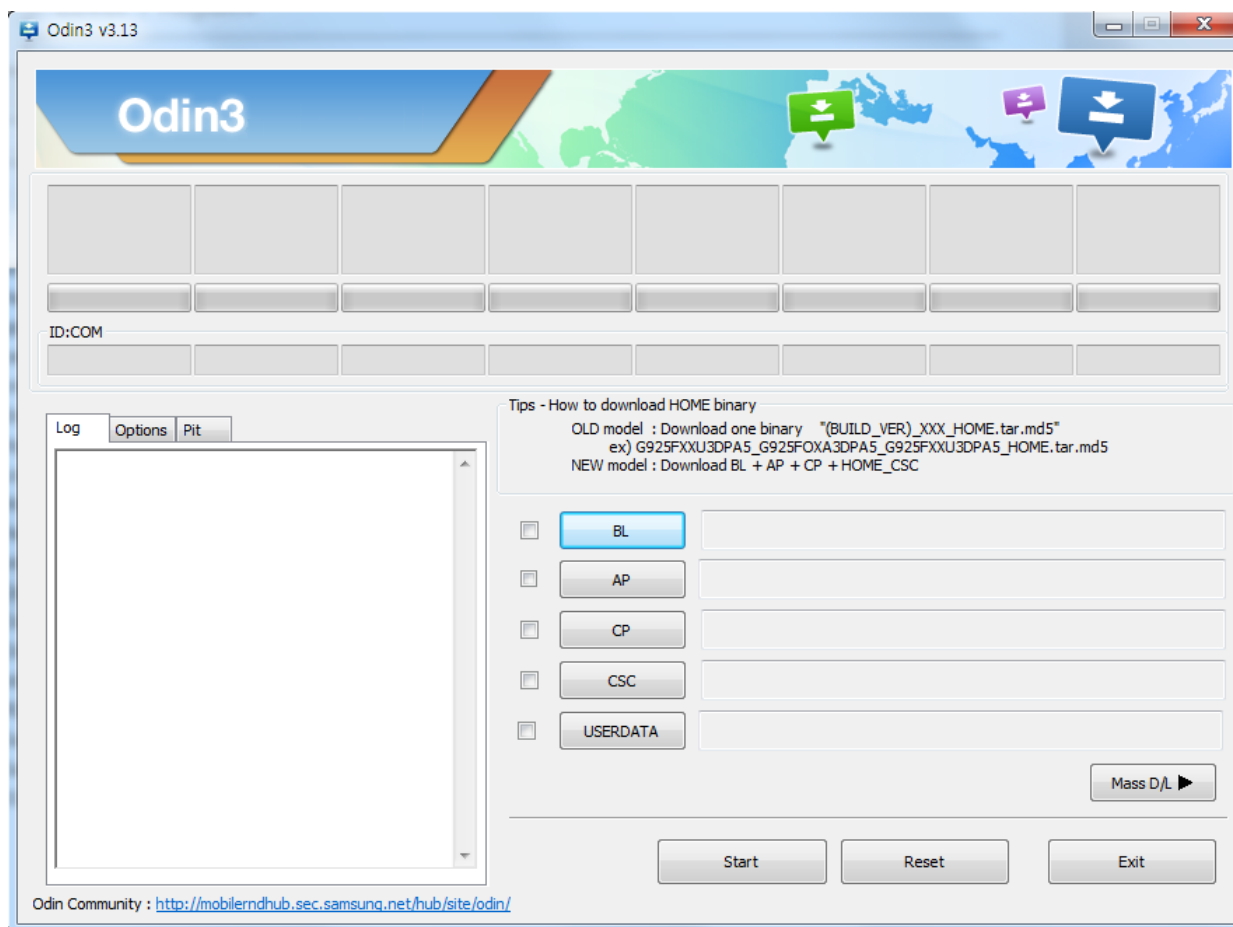


Data Cable : [GH39-01999A](#)

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**"

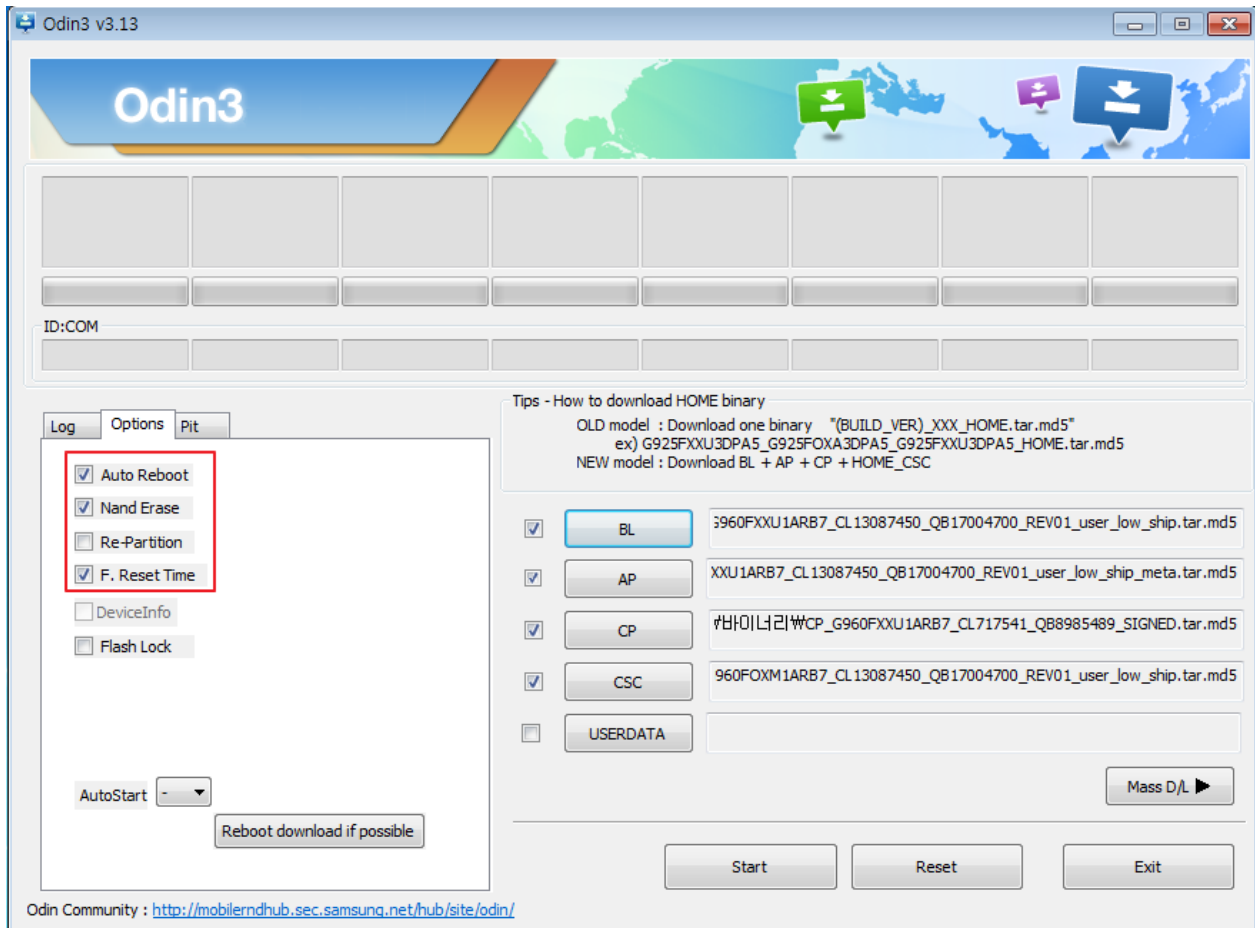


6. Level 1 Repair

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

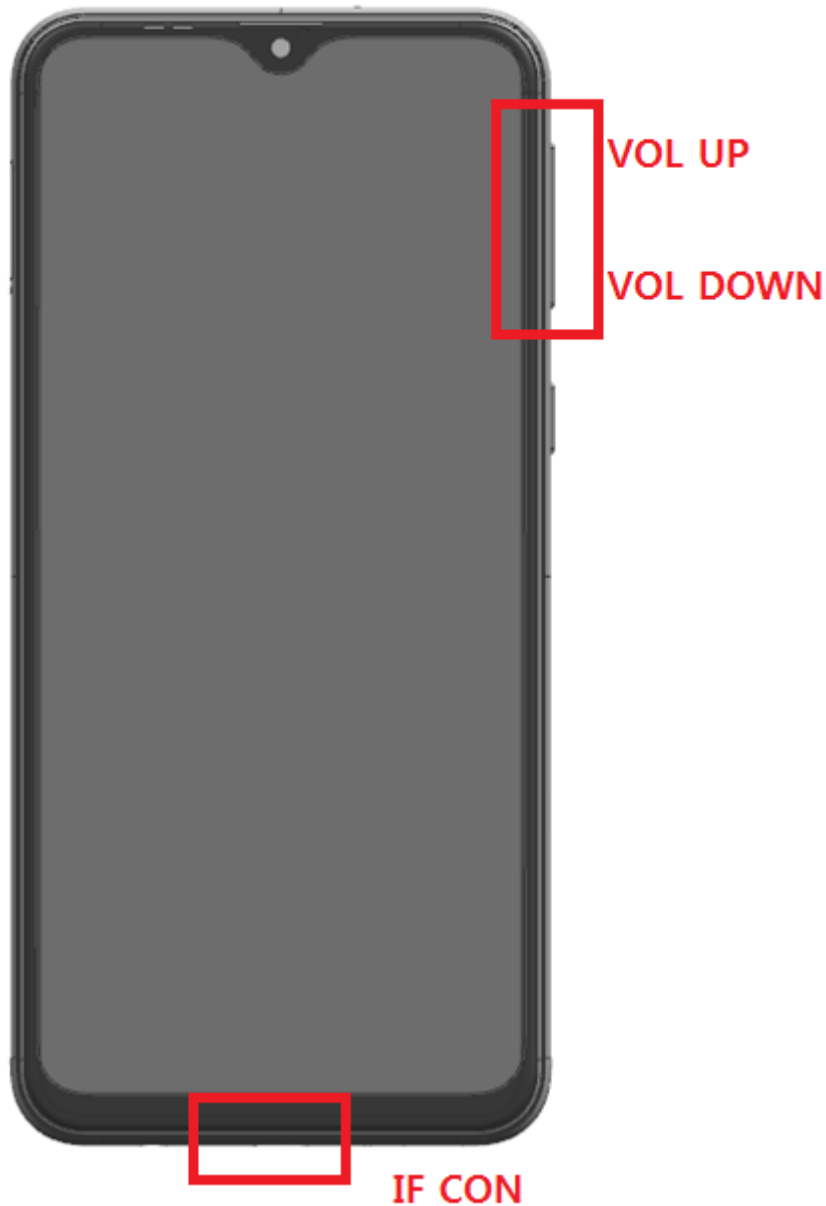
* Note : "Odin v3.13.2 or above" checks MD5 checksum just after file selection.



6. Level 1 Repair

2. Enter into Download Mode

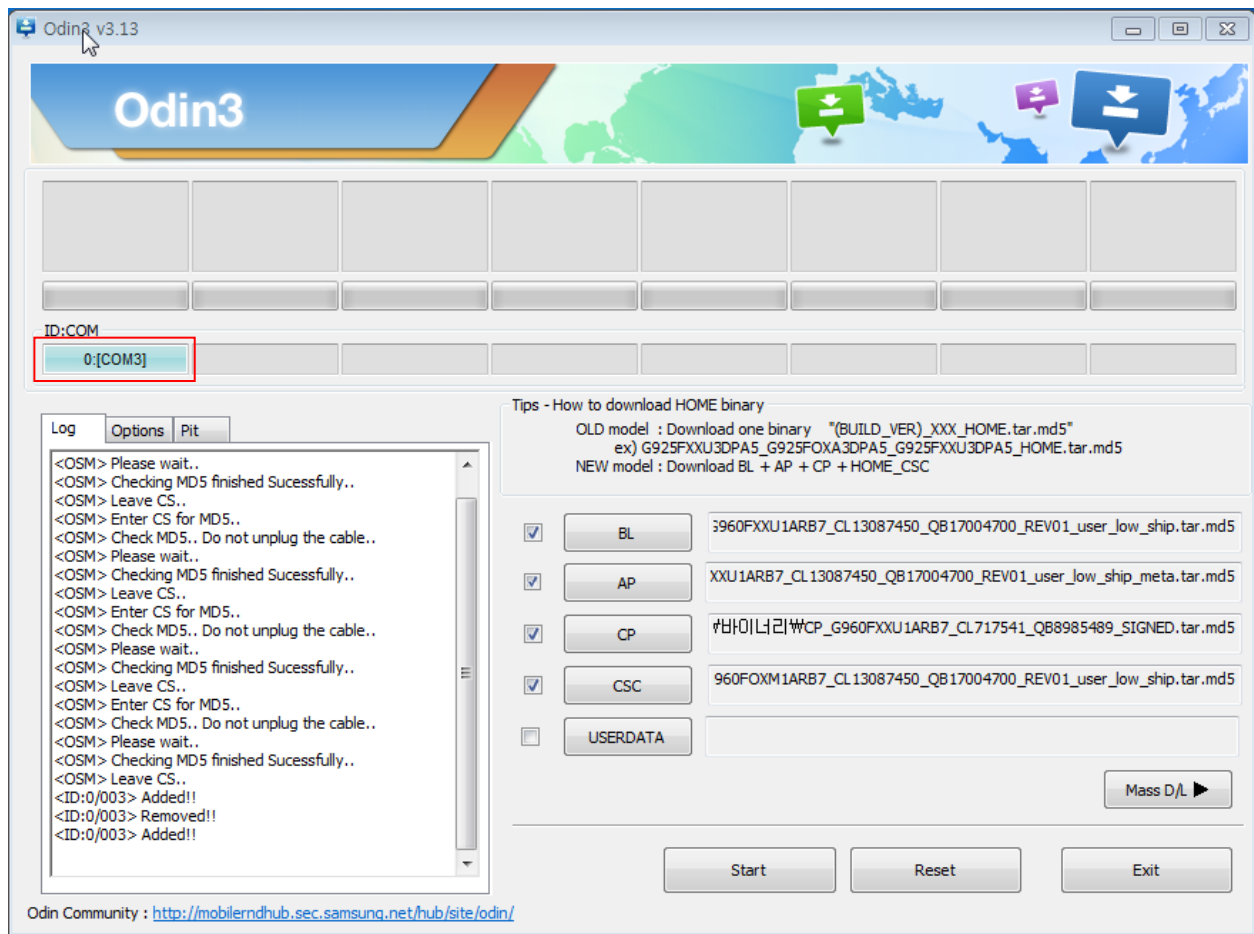
- Enter into Download Mode by pressing Volume Down button, Intelligence button and ON/OFF Button simultaneously followed by pressing Volume up button as a direction of the phone.



6. Level 1 Repair

3. Connect the device to PC via Data Cable.

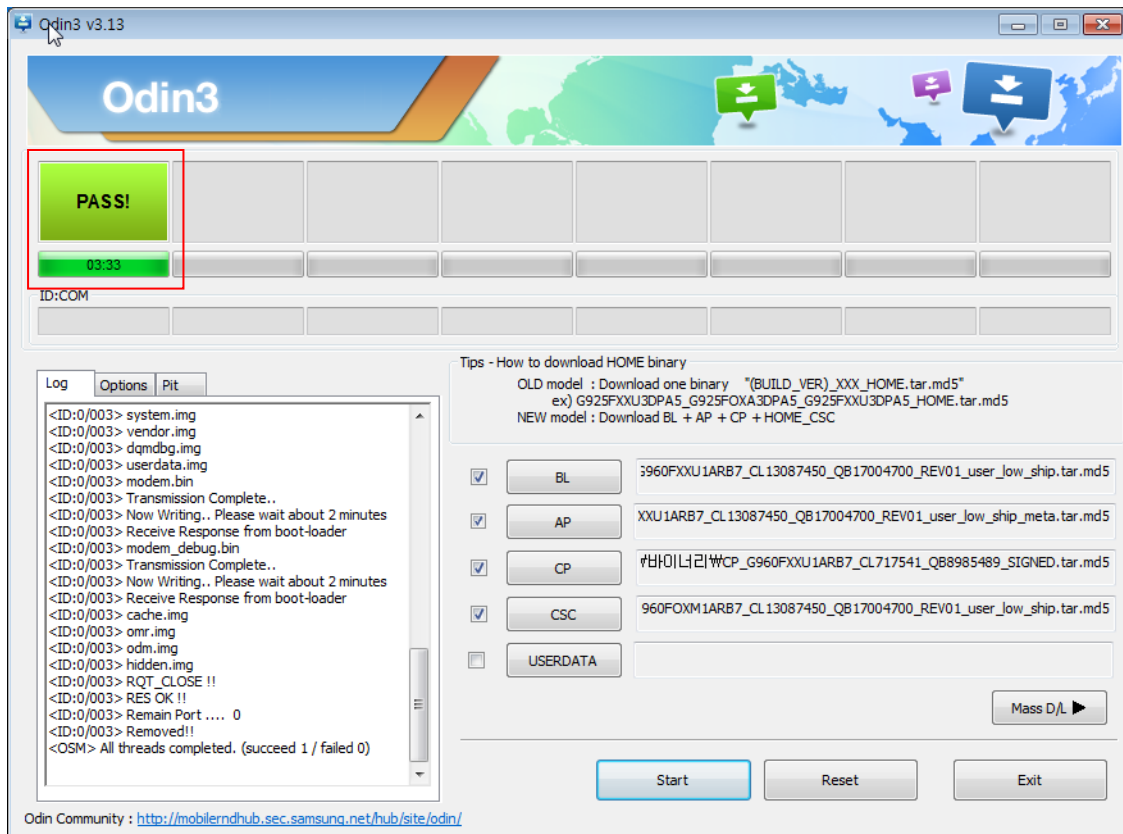
Make sure that the one of communication ports [ID:COM] box is highlighted in sky blue.
The device is now connected with the PC and ready to download the binary files in it.



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.

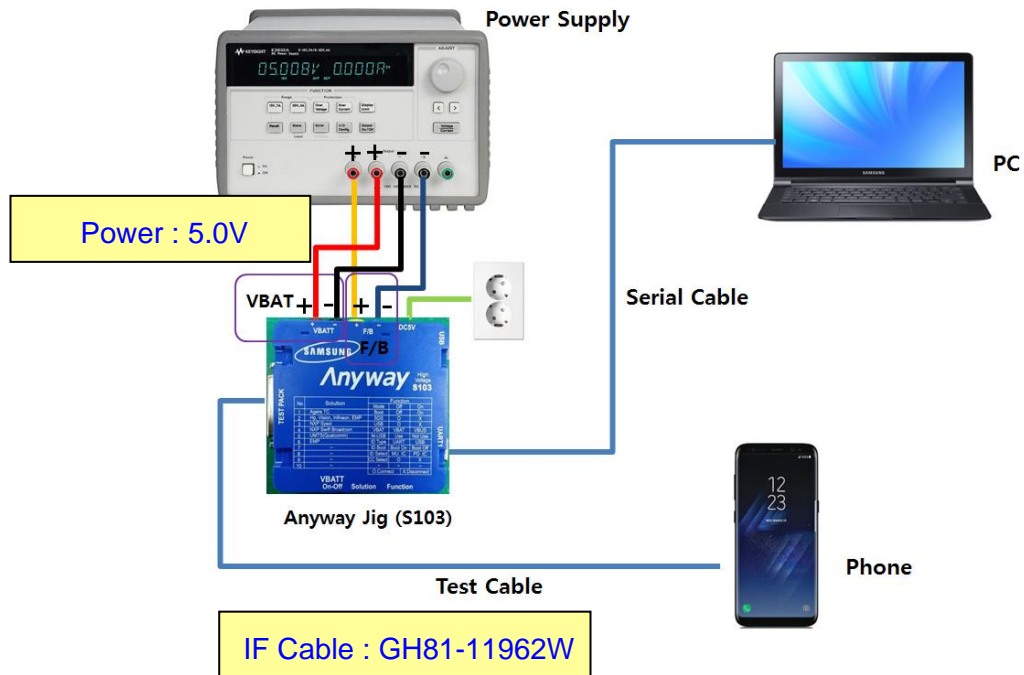
6. Level 1 Repair

6-3. IMEI writing

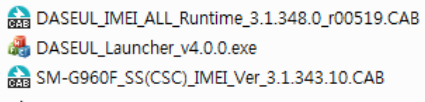
6-3-1. Preparation

- 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



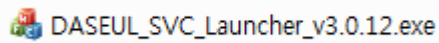
- S/W

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	DASEUL_SVC_Launcher_v3.0.12 or higher -Uploaded on HHPsvc Notice
③ Runtime File	1. DASEUL_IMEI_ALL_Runtime_3.1.348.0_r00519.CAB or higher -Uploaded on HHPsvc Notice 2. Make 'SM-M205F' folder at the same position with launcher & Runtime file. 
④ Model File	Copy Model File under the 'SM-M205F' folder

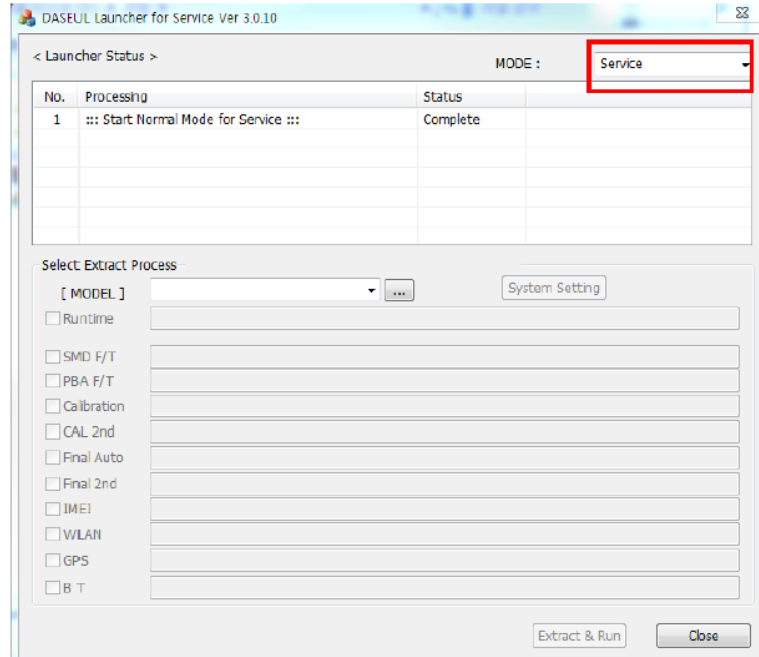
6. Level 1 Repair


6-3-2. IMEI writing Process

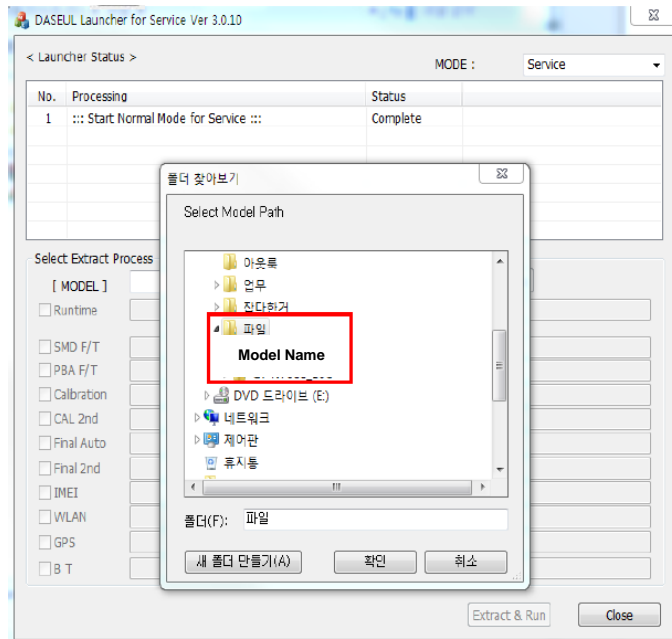
1. Run DASEUL_SVC_Launcher_v3.0.12.exe



2. Select Service Mode

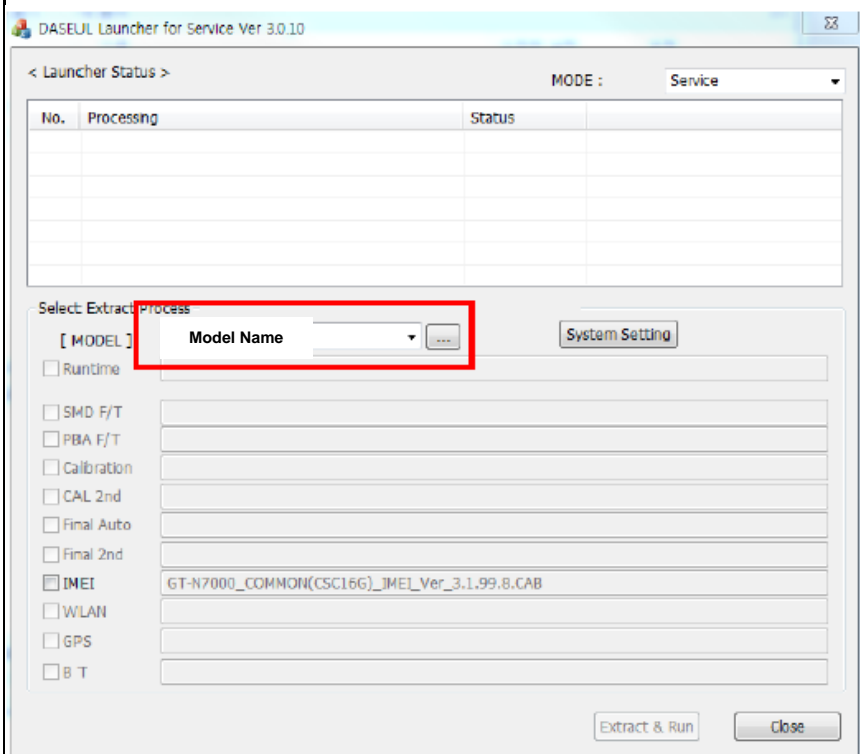


3. Click  and Select folder where the Launcher exists



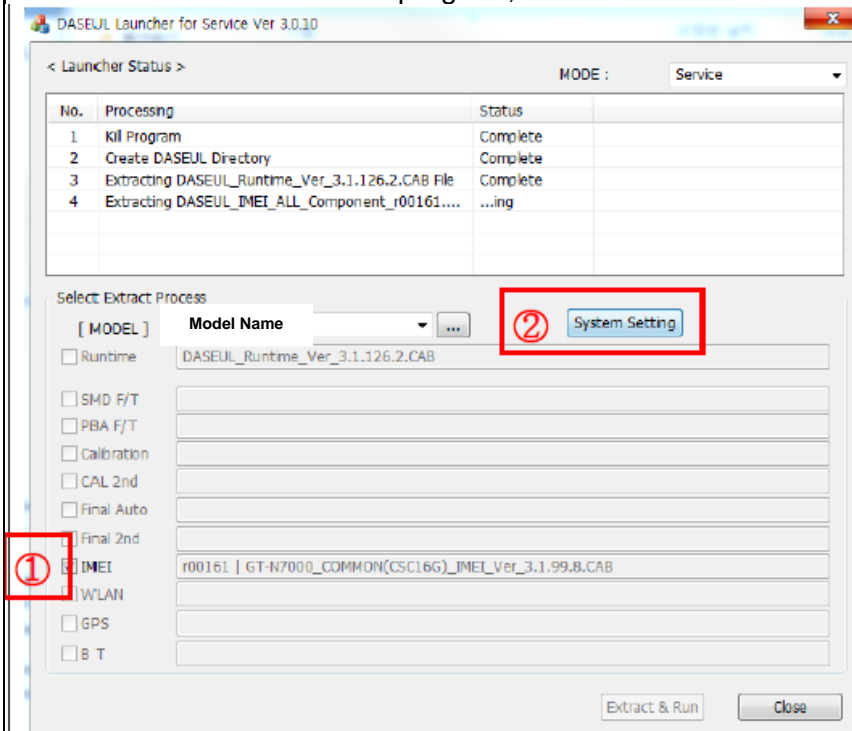
6. Level 1 Repair

4. Select Model



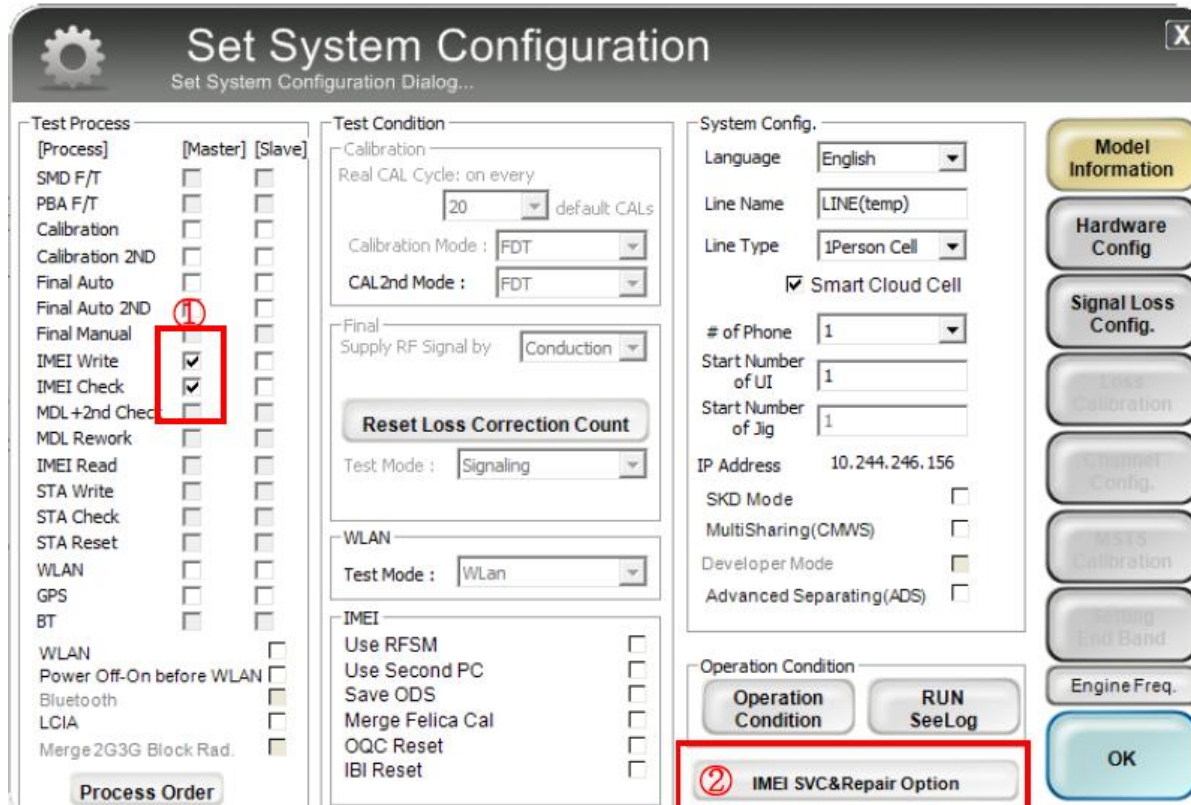
5. Check IMEI and click System Setting

※ 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' with a table of checkboxes for various tests; 'Test Condition' with settings for calibration and RF signal; 'System Config.' with settings for language, line name, and network; and a right-hand sidebar with buttons for 'Model Information', 'Hardware Config', 'Signal Loss Config.', 'Loss Calibration', 'Channel Config.', 'MMS Calibration', 'Setting End Band', and 'Engine Freq.'. At the bottom, there are buttons for 'Operation Condition', 'RUN SeeLog', and 'IMEI SVC&Repair Option' (which is circled in red and labeled with a circled 2). The 'IMEI Write' and 'IMEI Check' checkboxes in the 'Test Process' section are also circled in red and labeled with a circled 1.

[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 Jlg: 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.

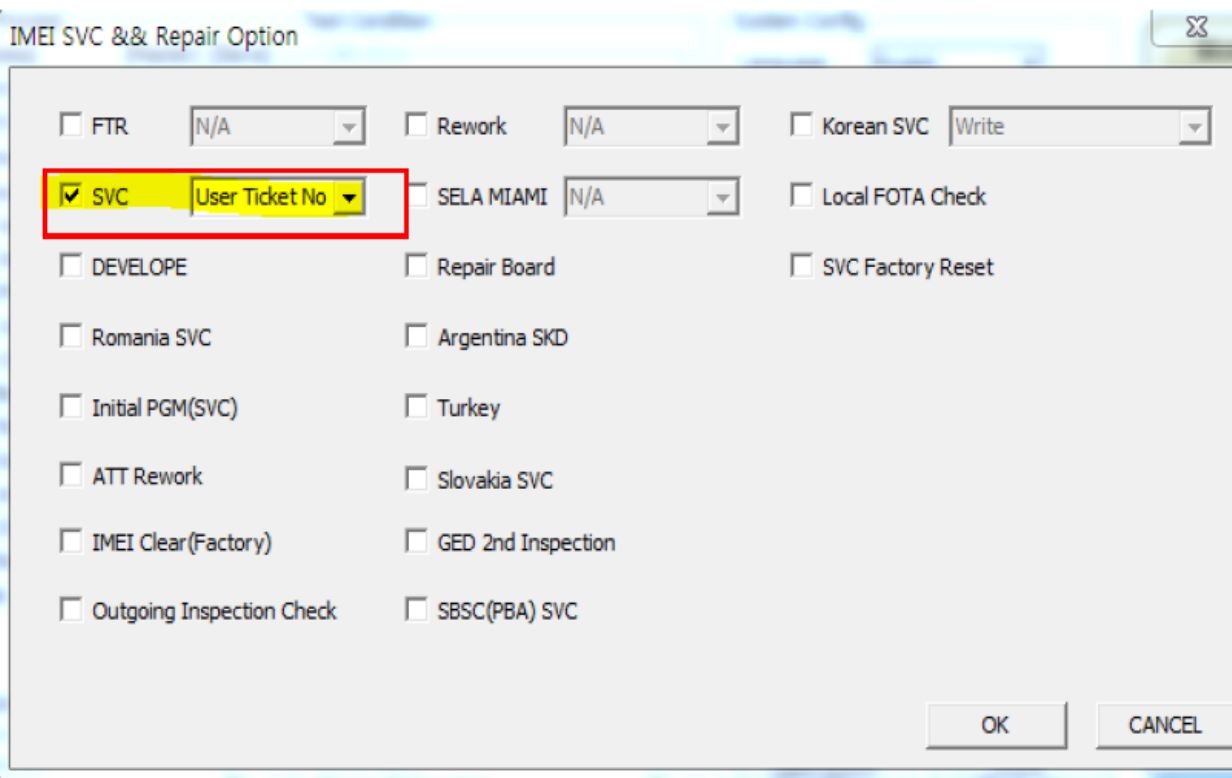
MMS Calibration

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 various checkboxes and dropdown menus for different service options. The 'SVC' checkbox is checked, and the 'User Ticket No' dropdown is selected. The 'OK' and 'CANCEL' buttons are at the bottom right.

IMEI SVC && Repair Option

☐ FTR N/A ☐ Rework N/A ☐ Korean SVC Write

☒ SVC User Ticket No ☐ SELA MIAMI N/A ☐ Local FOTA Check

☐ DEVELOPE ☐ Repair Board ☐ SVC Factory Reset

☐ Romania SVC ☐ Argentina SKD

☐ Initial PGM(SVC) ☐ Turkey

☐ ATT Rework ☐ Slovakia SVC

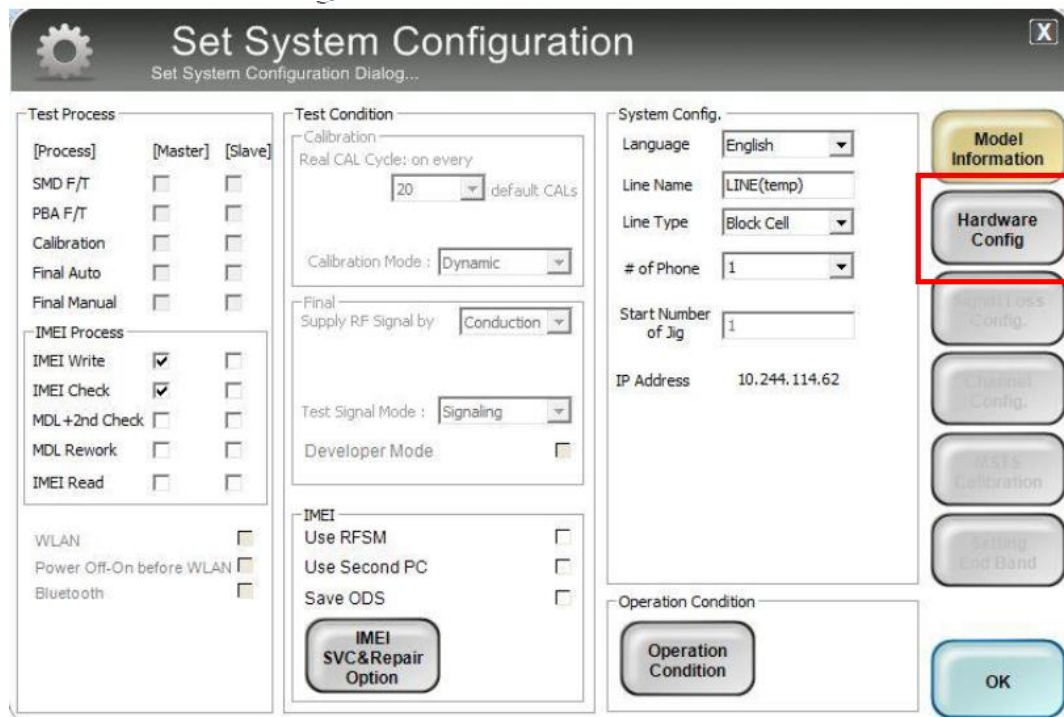
☐ IMEI Clear(Factory) ☐ GED 2nd Inspection

☐ Outgoing Inspection Check ☐ SBSC(PBA) SVC

OK CANCEL

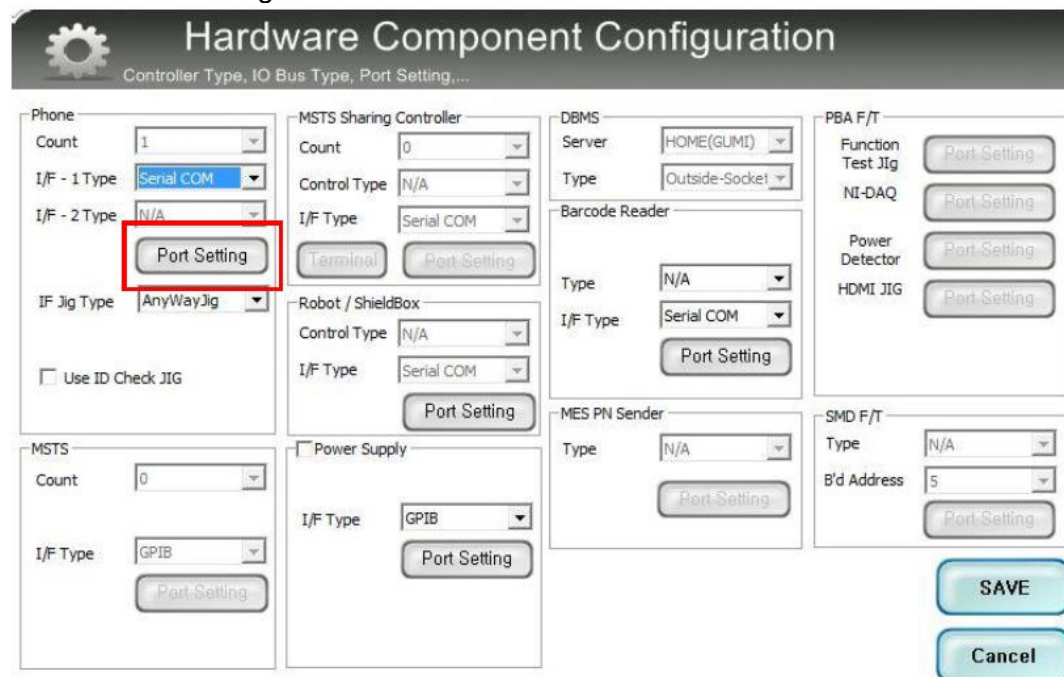
6. Level 1 Repair

8. Click 'Hardware Config'



The 'Set System Configuration' dialog box is shown with the 'Hardware Config' button highlighted in a red box. The dialog is divided into several sections: 'Test Process' with checkboxes for SMD F/T, PBA F/T, Calibration, Final Auto, Final Manual, and IMEI Process (IMEI Write, IMEI Check, MDL +2nd Check, MDL Rework, IMEI Read); 'Test Condition' with fields for Calibration (Real CAL Cycle: on every 20, default CALs), Calibration Mode (Dynamic), Final Supply RF Signal by (Conduction), Test Signal Mode (Signaling), Developer Mode, and IMEI options (Use RFSM, Use Second PC, Save ODS); 'System Config.' with fields for Language (English), Line Name (LINE(temp)), Line Type (Block Cell), # of Phone (1), Start Number of Jig (1), and IP Address (10.244.114.62); and 'Operation Condition'. On the right, a vertical stack of buttons includes 'Model Information', 'Hardware Config' (highlighted), 'Signal Loss Config.', 'Channel Config.', 'MSTS Calibration', 'Setting End Band', and 'OK'.

9. Click 'Port Setting'



The 'Hardware Component Configuration' dialog box is shown with the 'Port Setting' button highlighted in a red box. The dialog is divided into several sections: 'Phone' with fields for Count (1), I/F - 1 Type (Serial COM), I/F - 2 Type (N/A), and IF Jig Type (AnyWayJig); 'MSTS Sharing Controller' with fields for Count (0), Control Type (N/A), and I/F Type (Serial COM); 'DBMS' with fields for Server (HOME(GUMI)) and Type (Outside-Socket); 'Barcode Reader' with fields for Type (N/A) and I/F Type (Serial COM); 'MES PN Sender' with fields for Type (N/A); 'PBA F/T' with fields for Function Test Jig, NI-DAQ, Power Detector, and HDMI JIG; 'MSTS' with fields for Count (0) and I/F Type (GPIB); 'Robot / ShieldBox' with fields for Control Type (N/A) and I/F Type (Serial COM); 'Power Supply' with fields for I/F Type (GPIB); and 'SMD F/T' with fields for Type (N/A) and B'd Address (5). Each section has a 'Port Setting' button. At the bottom right, there are 'SAVE' and 'Cancel' buttons.

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 ☐ ☐
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 ☐
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.

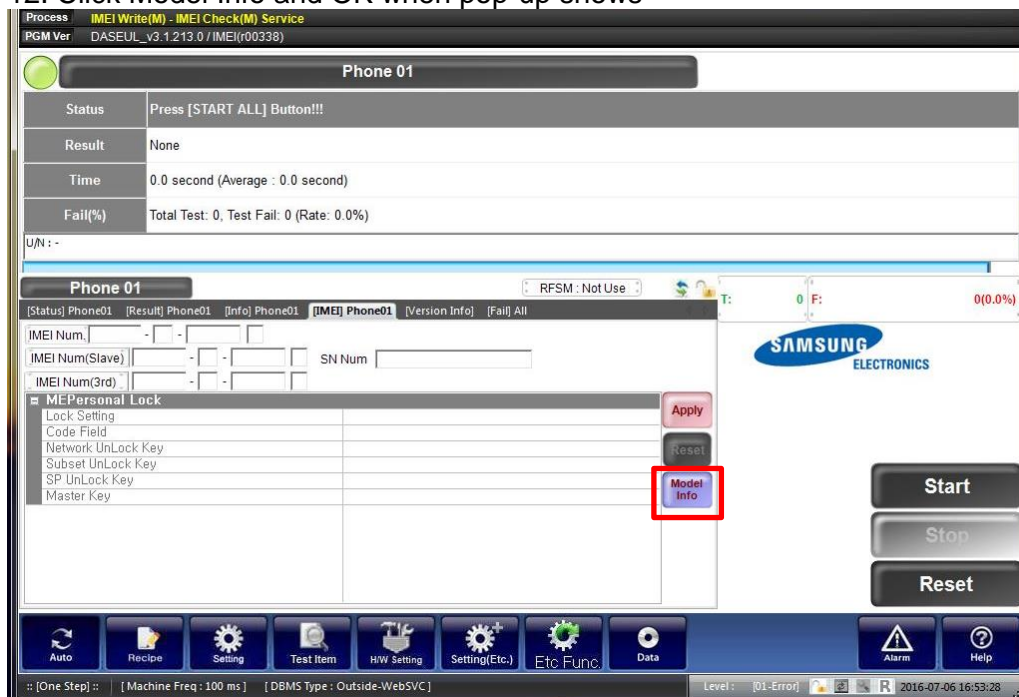
Language: English
Line Name: LINE(temp)
Line Type: Block Cell
of Phone: 1
Start Number of Jig: 1
IP Address: 10.244.114.62
Operation Condition

Model Information
Hardware Config
Signal Loss Config.
Channel Config.
WPS Calibration
Setting and Band

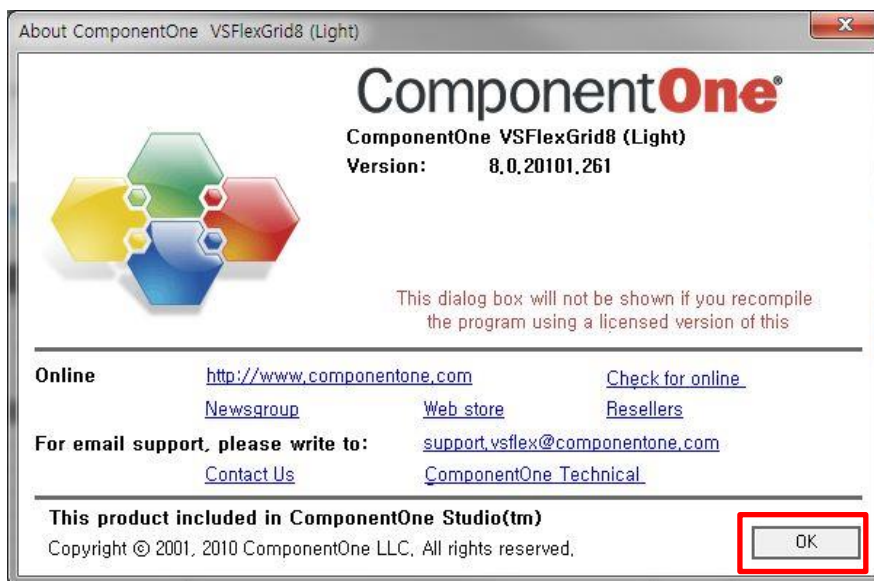
OK

6. Level 1 Repair

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



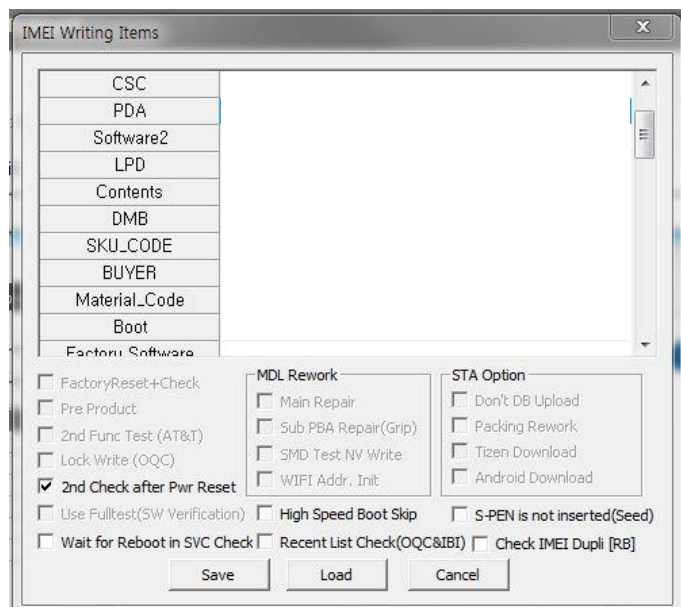
13. Click OK



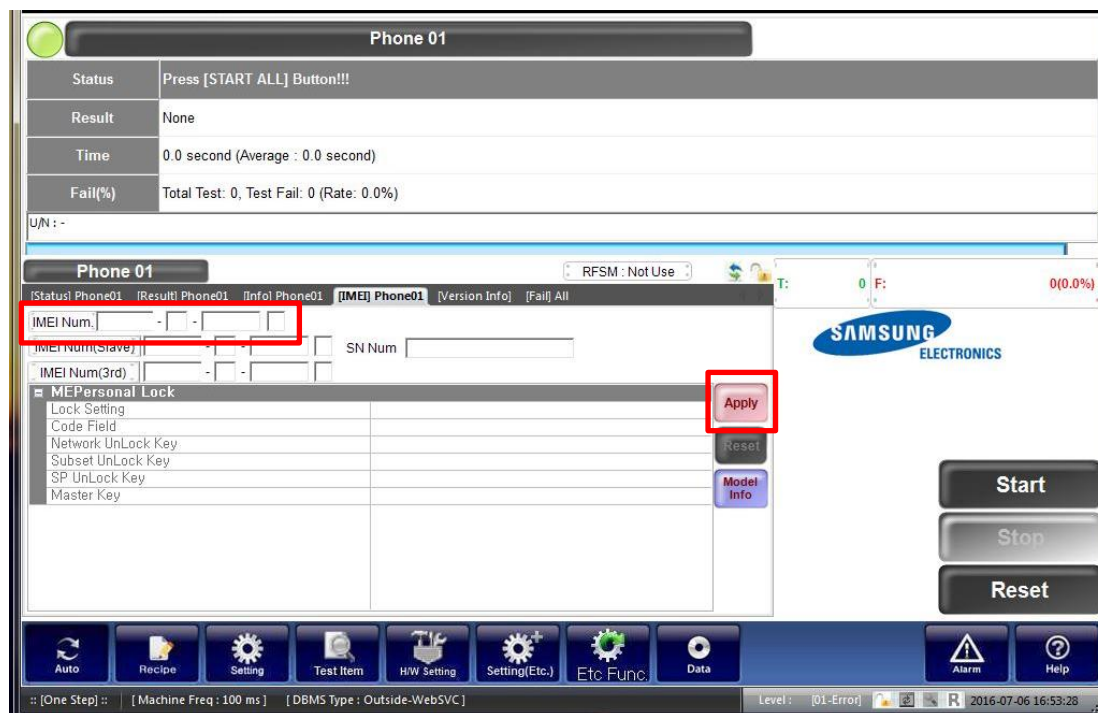
6. Level 1 Repair

14. Input SKU_CODE and BUYER, then click Save button.

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

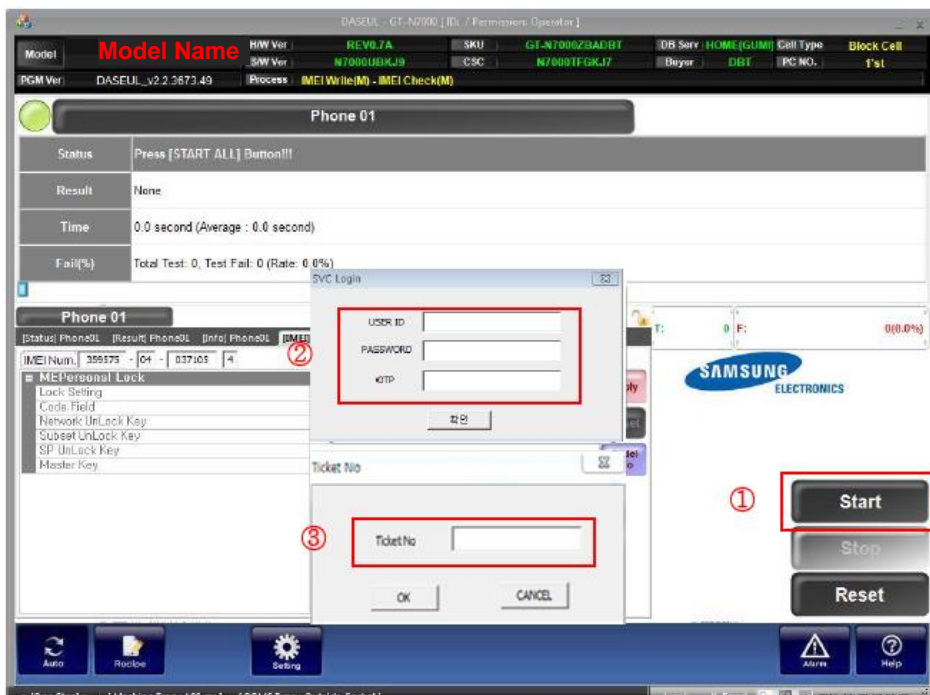


15. Input IMEI Number and click Apply



6. Level 1 Repair

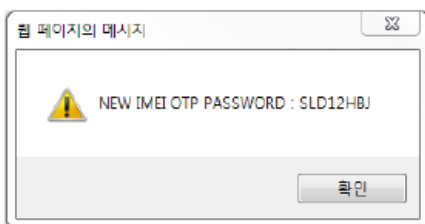
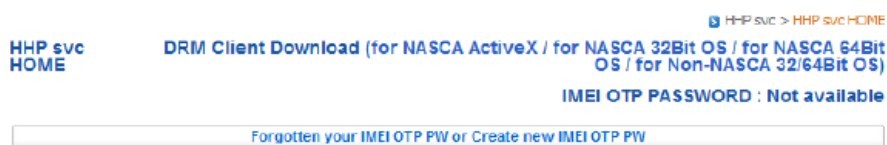
16. ① Click Start → ② Input IMEI writing ID and Password & OTP → ③ Input Ticket No



※ 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

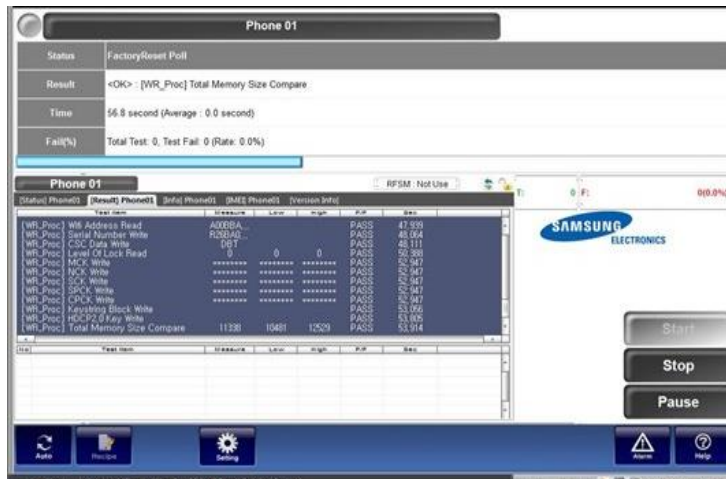


6. Level 1 Repair

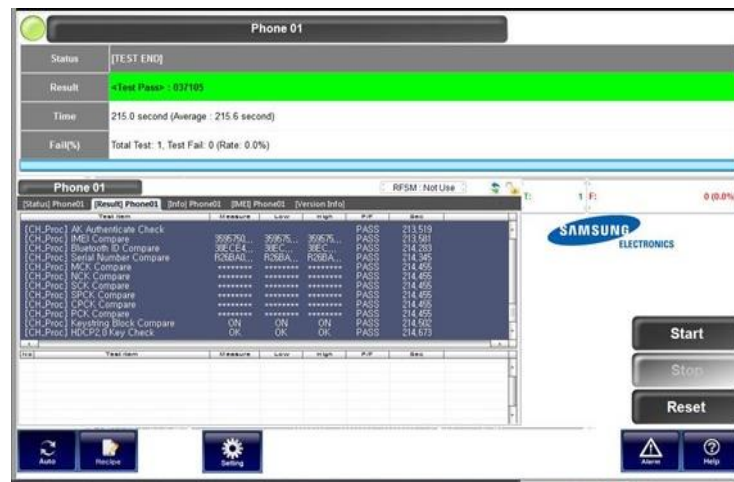
17. Connect the phone to Anyway JIG

- ※ When you connect the phone, the phone should be turned off.
After connecting the phone, the phone will be booted automatically.

18. IMEI Writing Proceeding



19. IMEI Writing Success



7. Level 2 Repair

7-1. Components on the Rear Case




7. Level 2 Repair

7-2. Pre-requisite

	
Tweezers / Disass'y Stick / Screw Driver	Anti-static Gloves
	
Anti-static Mat	AOD for Tablet
	
Ethyl Alcohol	Cotton Swab

7. Level 2 Repair

7-3. Parts which must be changed after repair

BOM Description & part code	Image	Remarks
Backglass Outside tape [GH02-19465A]		Left items must be changed to the new one in case of disassemble the Back glass.

7. Level 2 Repair

7-4. Disassembly

1

- 1) Put the device in the AOD jig.
Set the AOD condition
- SOC 68%↓: Upper 70°C/ Lower 60°C 5min
- SOC 68%↑: Upper 60°C/ Lower 60°C 5min
- 2) Disassemble the OCTA using the AOD.



2

Remove Rear Cover.

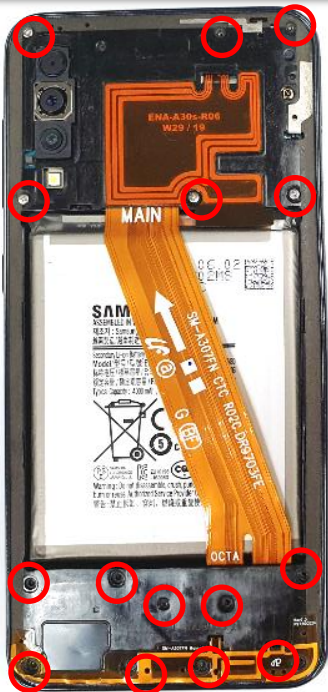


※ Caution
Be care of scratch.

※ Caution
Be care of scratch.

3

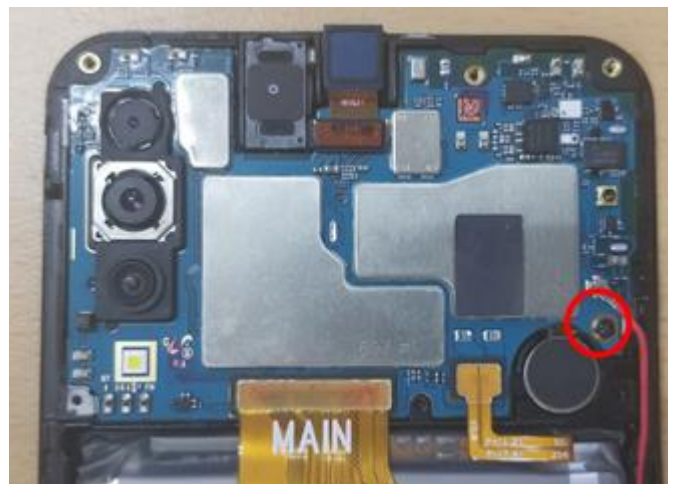
Remove all 14 points of Rear Screws.



※ Caution
Be care of Rear damage.

4

Remove 1 PBA screw.

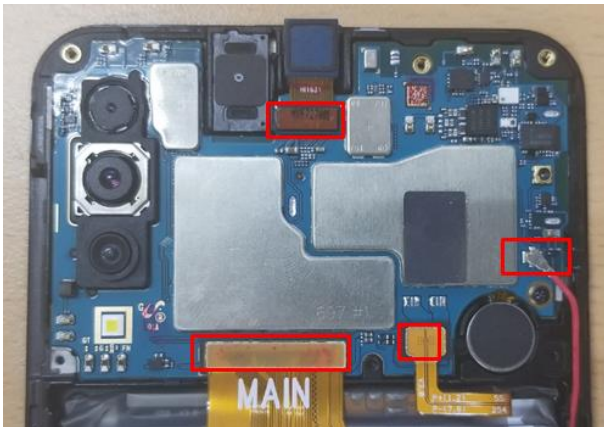


※ Caution
Be careful not to damage the PBA.

7. Level 2 Repair

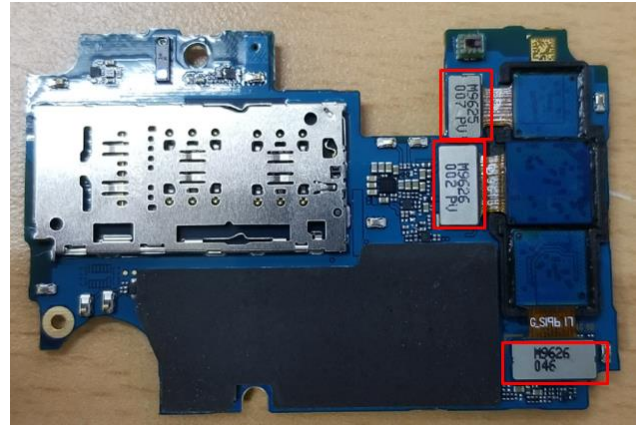
5

Remove the PBA and C to C FPCB and Batt Conn and Red COAXIAL CABLE And VT Camera.



6

Remove CAM connectors.



※ Caution

Be care of several kinds of damage at PBA and FPCB.

※ Caution

Be careful not to damage the Camera Module.

7

Detach RCV from Front Ass'y.



※ Caution

Be careful not to damage the RCV.

8

Detach Motor from Front Ass'y.



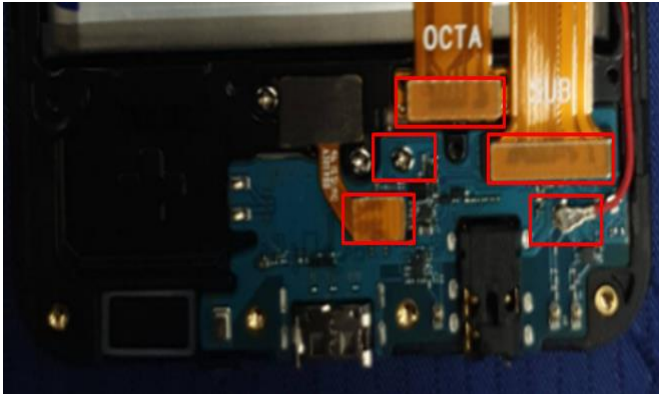
※ Caution

Be careful not to damage the Motor.

7. Level 2 Repair

9

Remove C to C FPCB Red COAXIAL CABLE and SUB PBA screw.



10

Detach the Sub PBA.



※ Caution

- 1) Be careful not to damage the C to C FPCB and Red COAXIAL CABLE.
- 2) Be careful not to damage the PBA

※ Caution

Be careful not to damage the Sub PBA

11

Detach SPK from Rear Ass'y.



※ Caution

Be careful not to damage the SPK

7. Level 2 Repair

7-5. Assembly

1

Attach SPK on Rear Ass'y.



※ **Caution**
Be care of SPK damage.

2

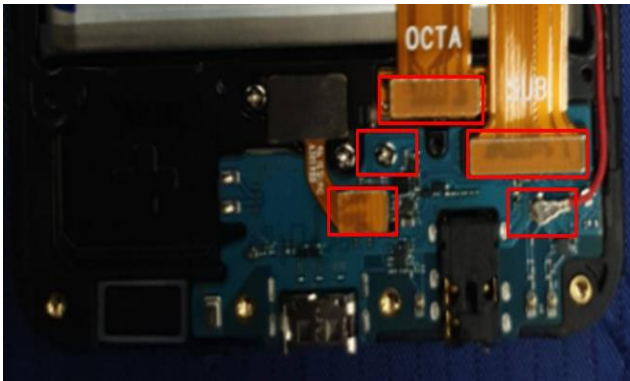
Attach Sub PBA on Front Ass'y.



※ **Caution**
Be care of Sub PBA damage.

3

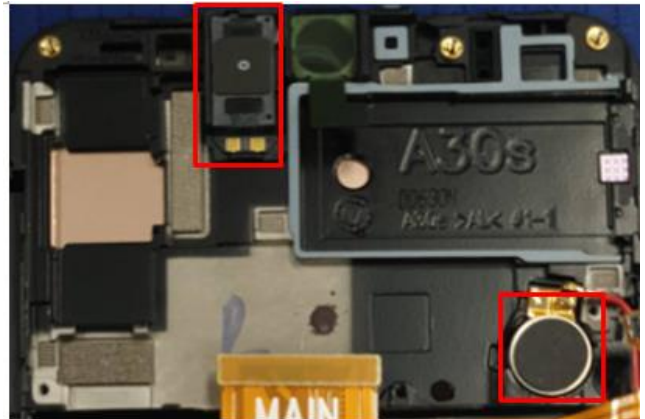
Remove C to C FPCB Red COAXIAL CABLE
and SUB PBA screw Screw insertion 1 Point.
* Torque Value : 0.95 ±7%



※ **Caution**
1) Be careful not to damage the C to C FPCB and Red COAXIAL CABLE.
2) Be careful not to damage the PBA

4

Attach Motor and Receiver in upper area.

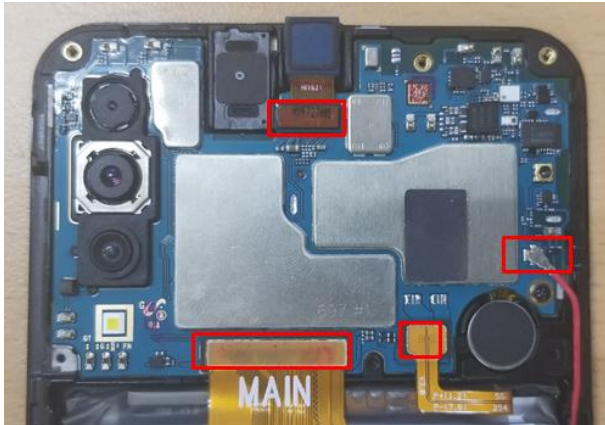


※ **Caution**
1) Be care of scratch CAM lens.
2) Be care of damage each part.

7. Level 2 Repair

5

Assemble the PBA and C to C FPCB and Batt Conn and Red COAXIAL CABLE and VT Camera.



6

Screw insertion 1 Point.
* Torque Value : $0.95 \pm 7\%$



※ Caution

Check for each connector connection.

※ Caution

Be care of PBA damage.

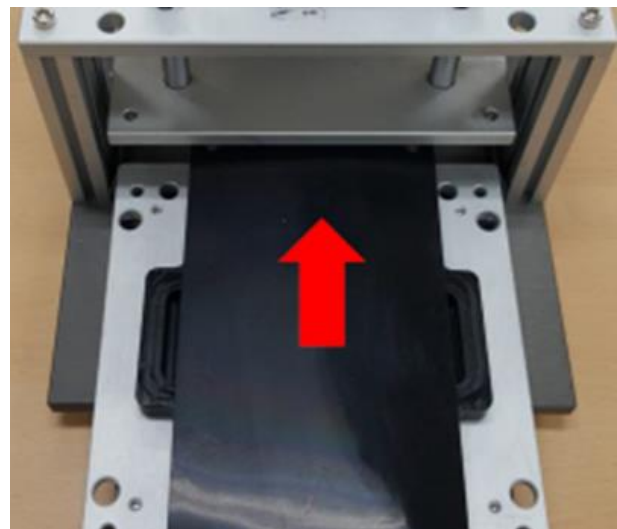
7

Assemble Rear and screw insertion 1 point.
* Torque Value : $1.2 \pm 7\%$



8

Press Back Glass.
Pressing force : 1 N
Pressing time : 1 minute

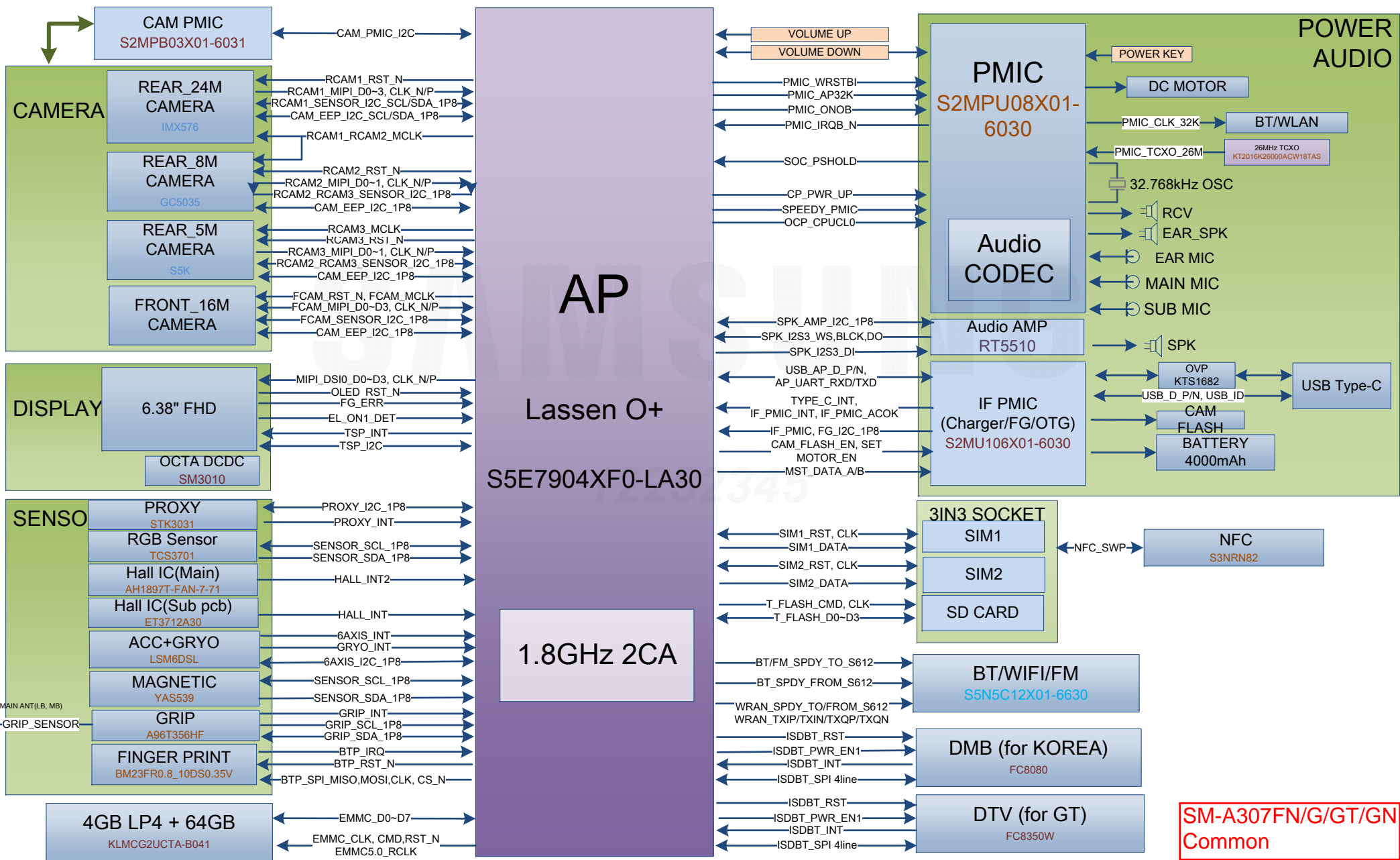


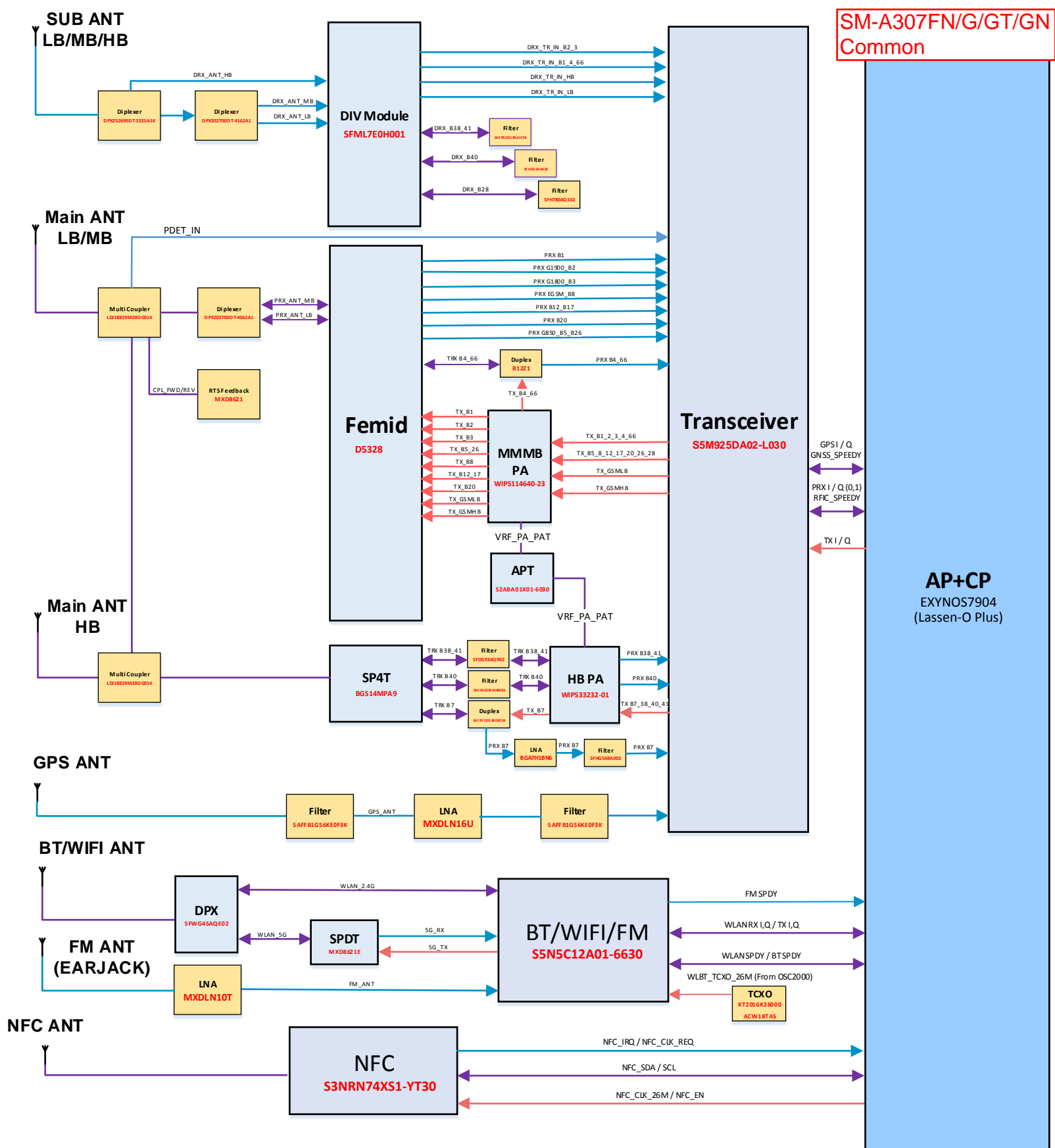
※ Caution

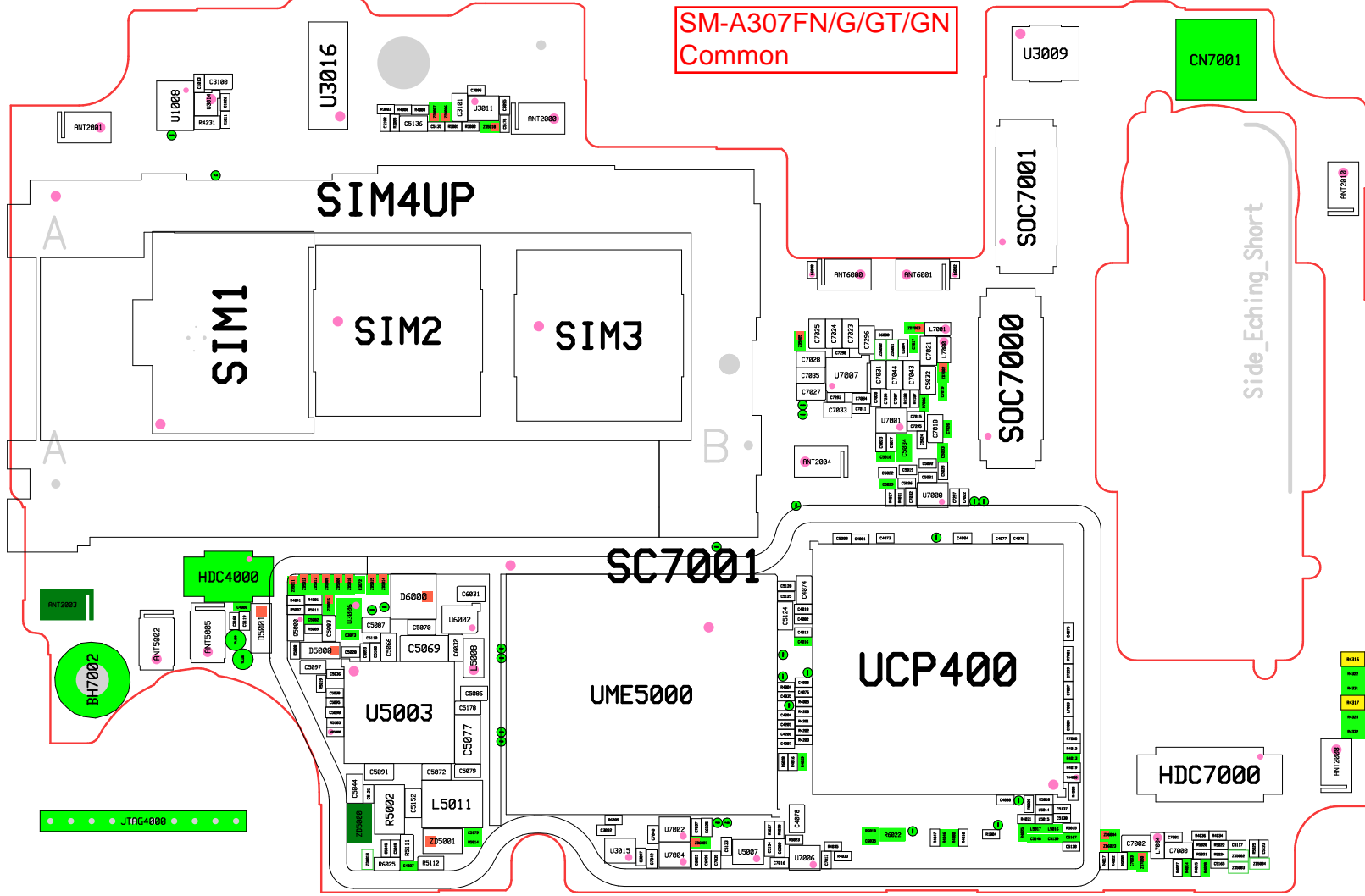
Be care of PBA damage.

※ Caution

Be care of scratch Rear cover.







SM-A307FN/G/GT/GN
Common

U3016

U3009

CN7001

SIM4UP

SIM1

SIM2

SIM3

SOC7001

SOC7000

Side_Eching_Short

SC7001

UME5000

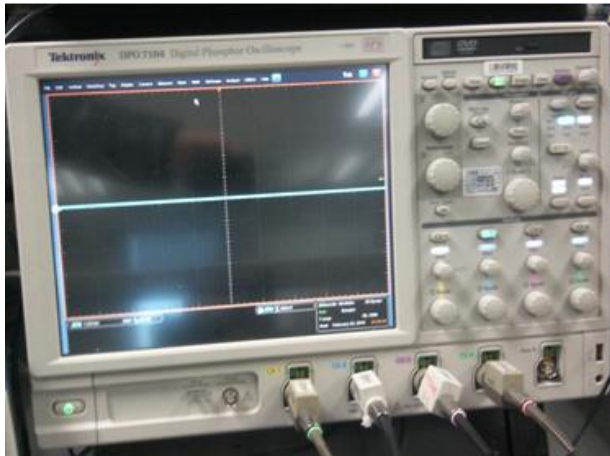
UCP400

HDC7000

Side_Eching_Short

8. Level 3 Repair

8-3. Flow chart of Troubleshooting.



Oscilloscope



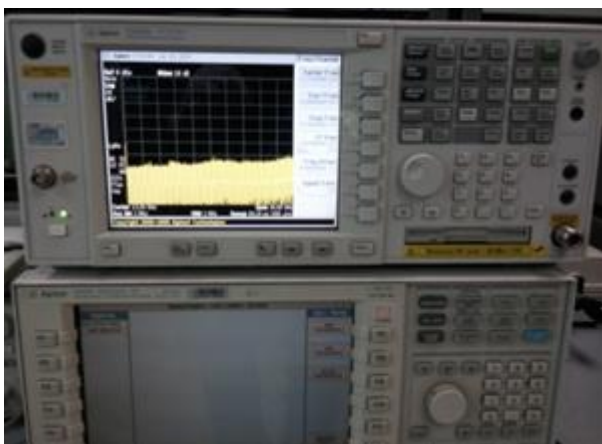
Digital Multimeter



Power Supply



+ driver, ESD Safe Tweezer



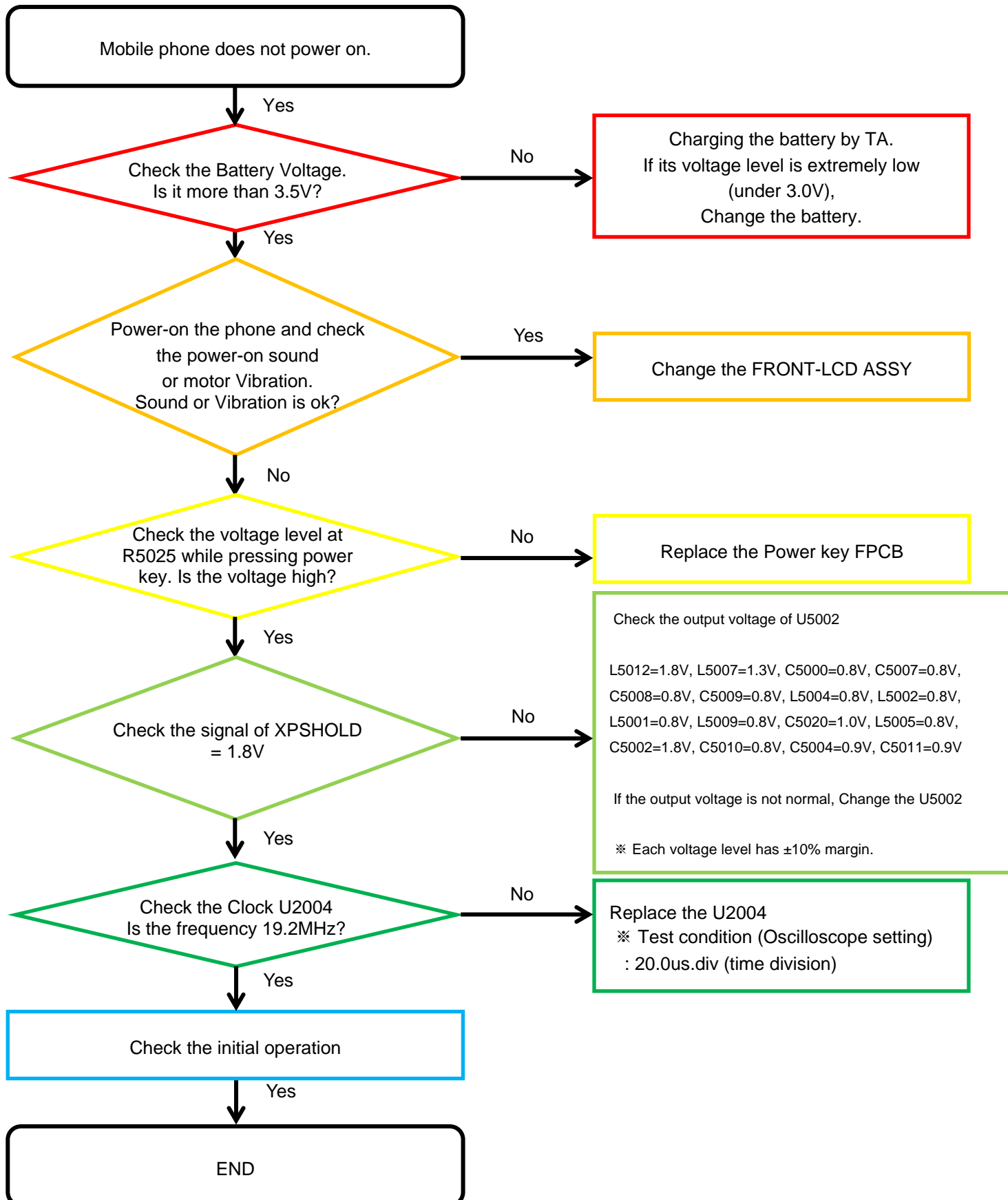
8960 & Spectrum Analyzer



Soldering iron

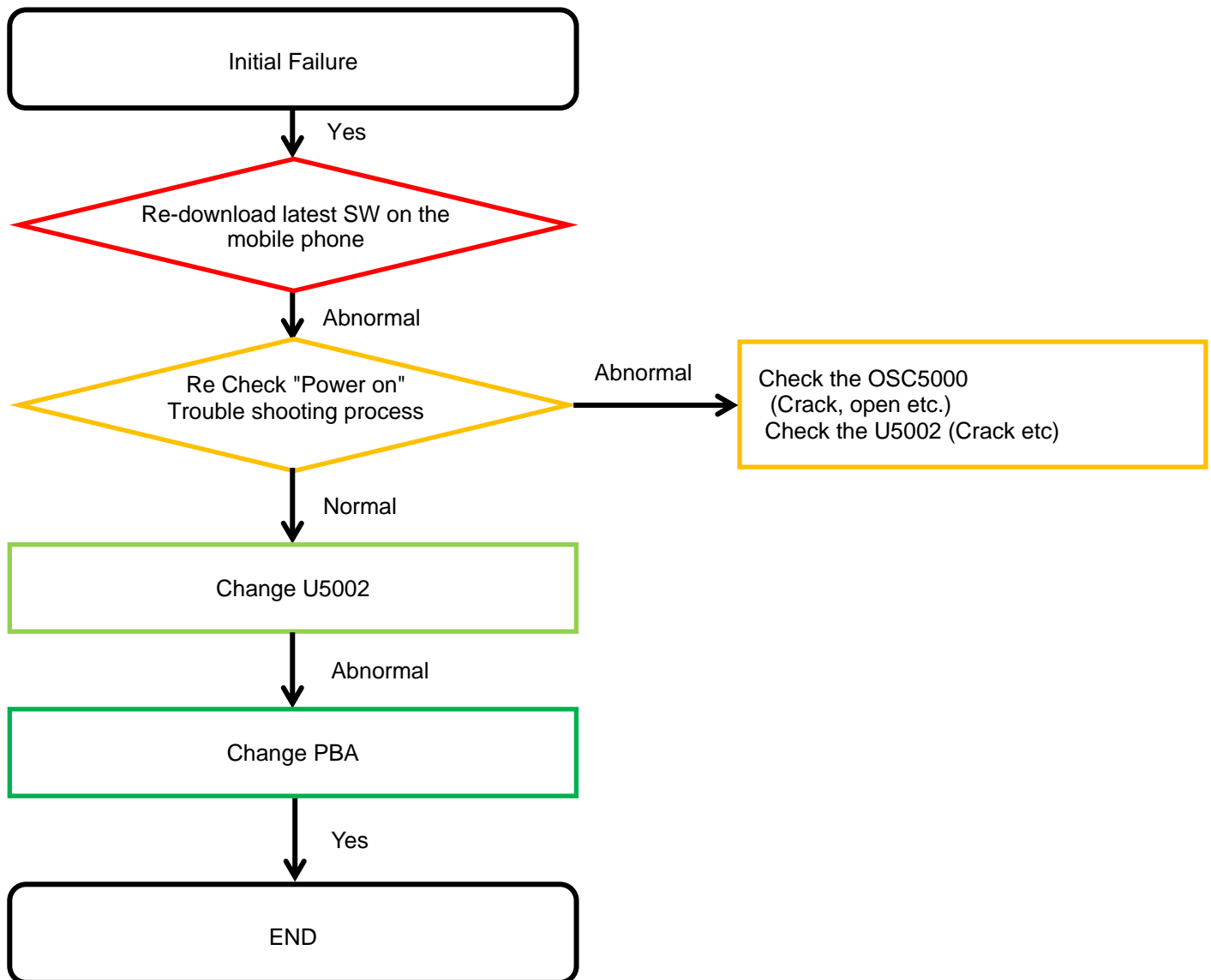
8. Level 3 Repair

8-4-1. Power On



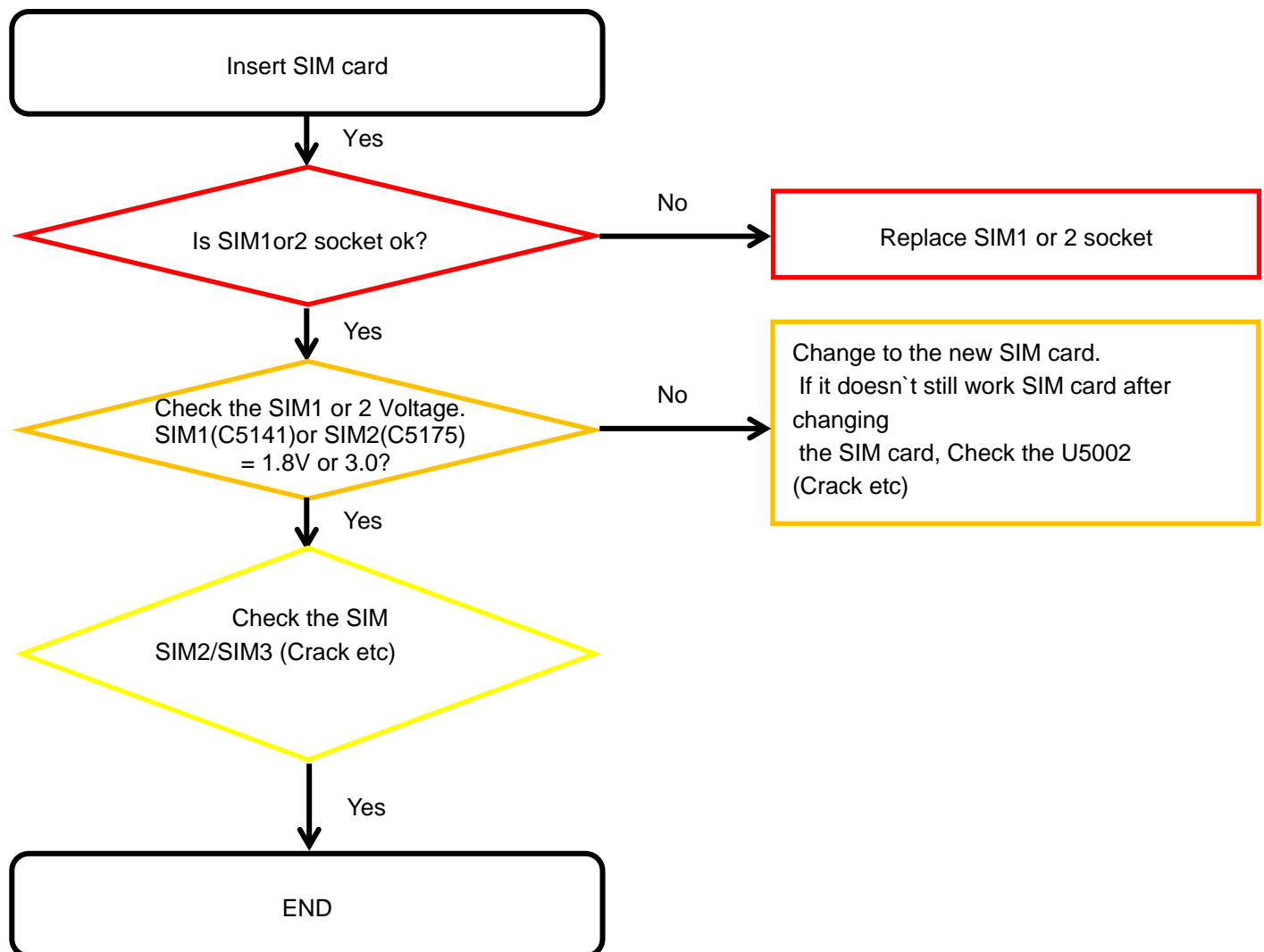
8. Level 3 Repair

8-4-2. Initial



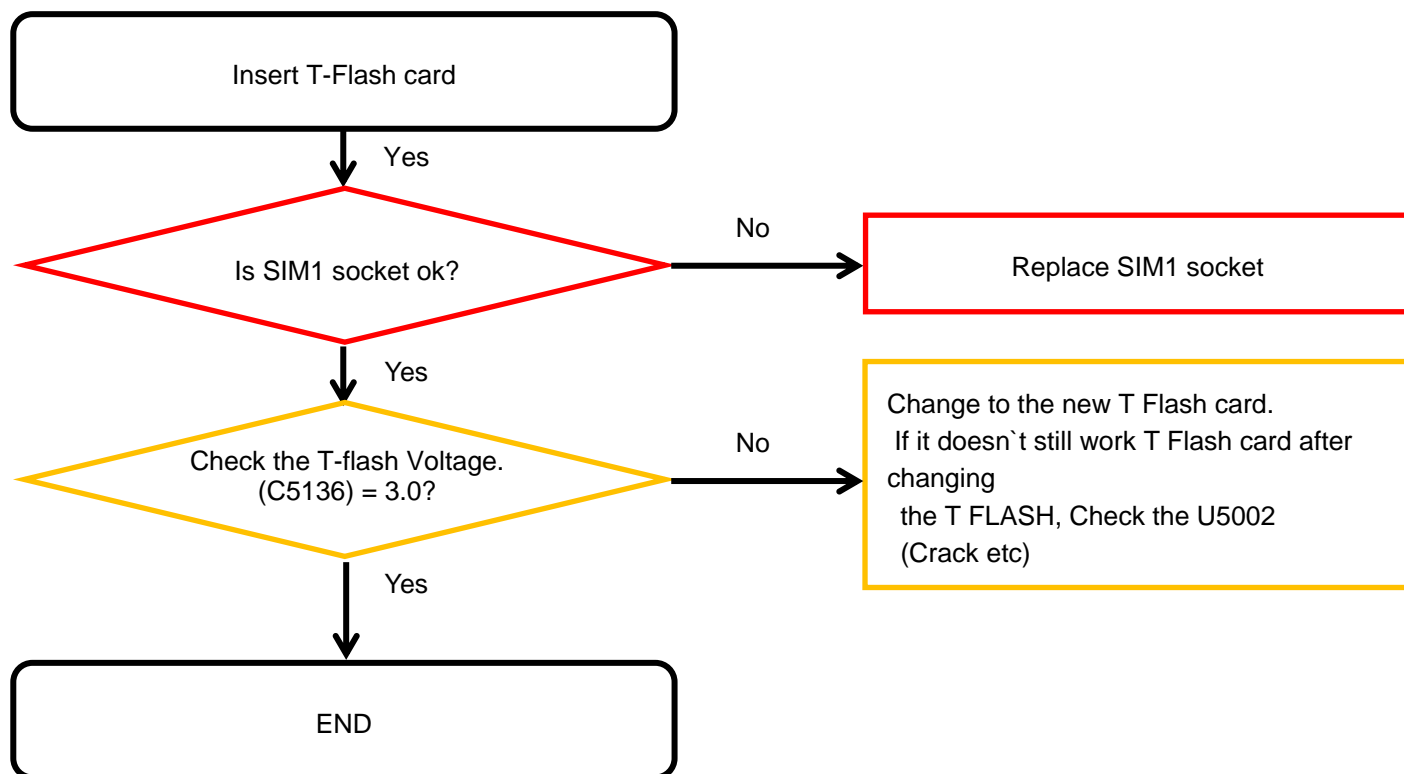
8. Level 3 Repair

8-4-3. SIM Part



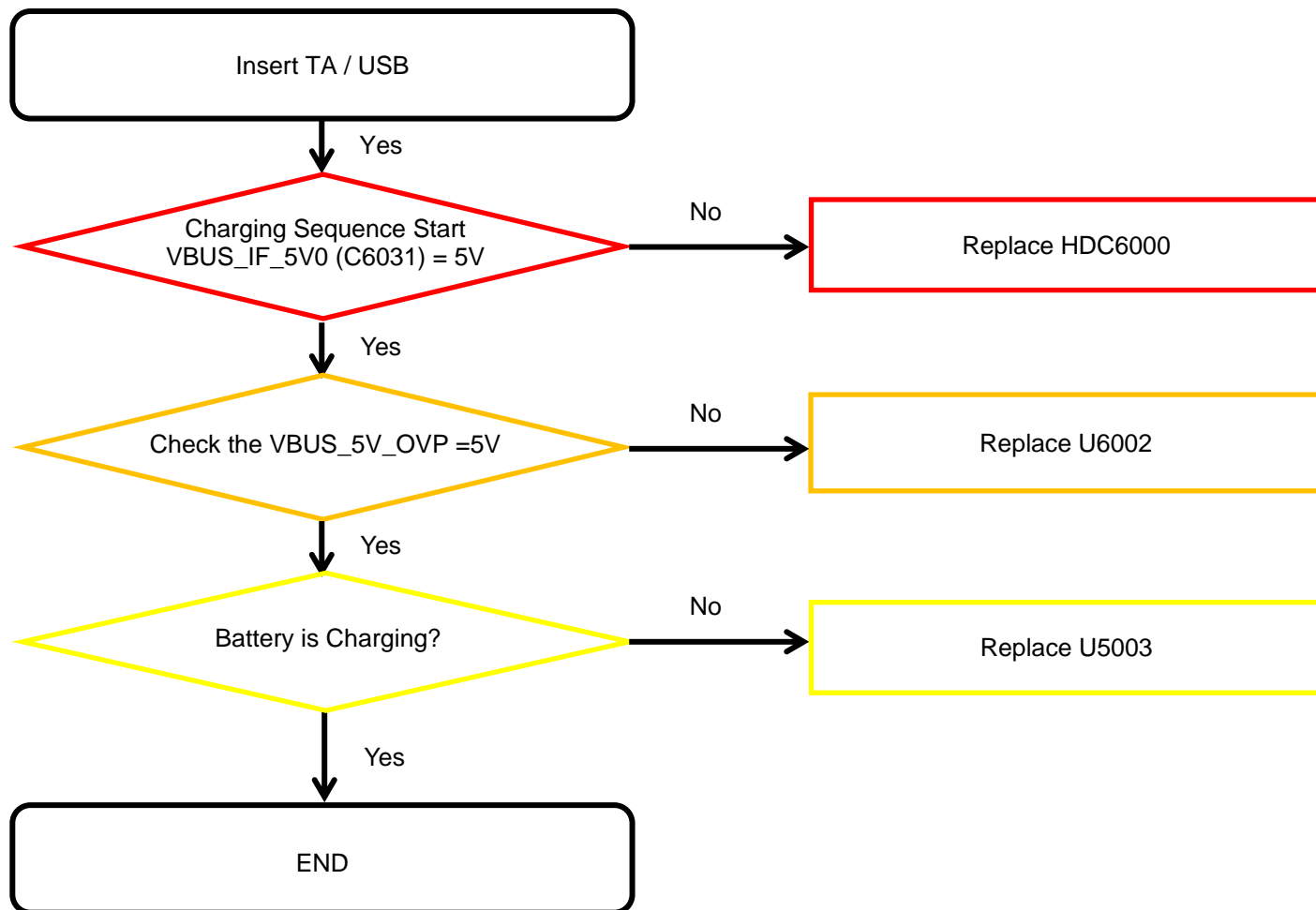
8. Level 3 Repair

8-4-4. T-Flash Part



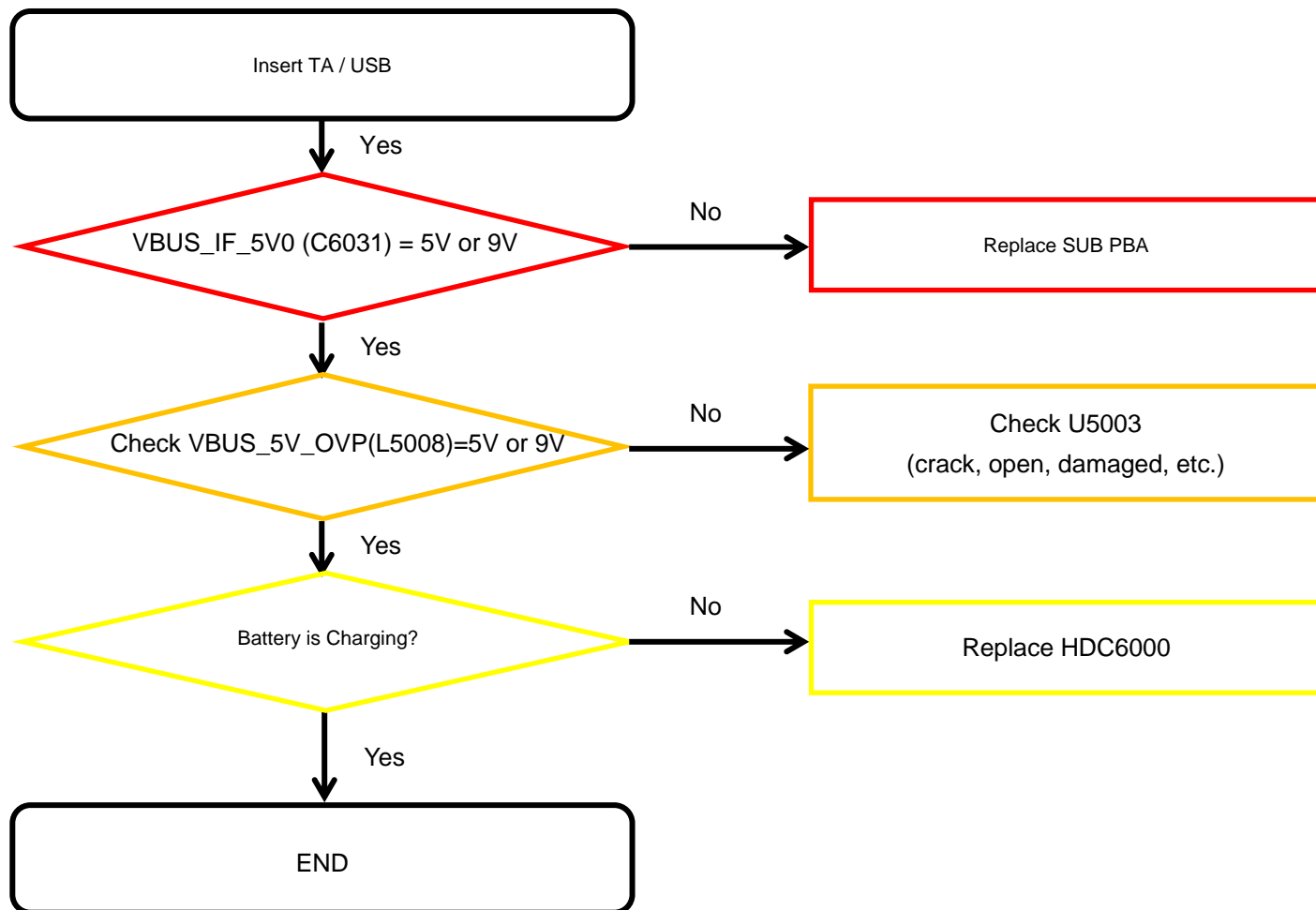
8. Level 3 Repair

8-4-5. Charging Part



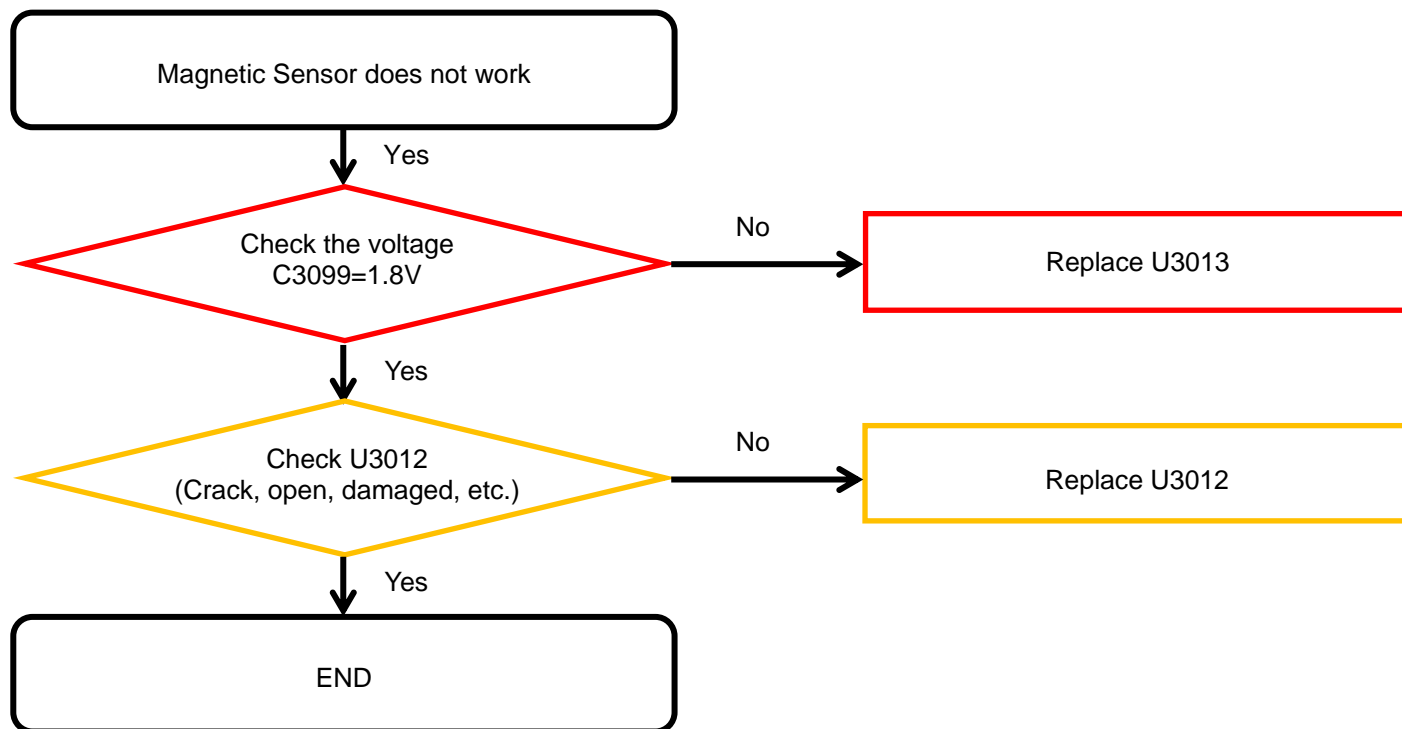
8. Level 3 Repair

8-4-6. Cable Charging Part



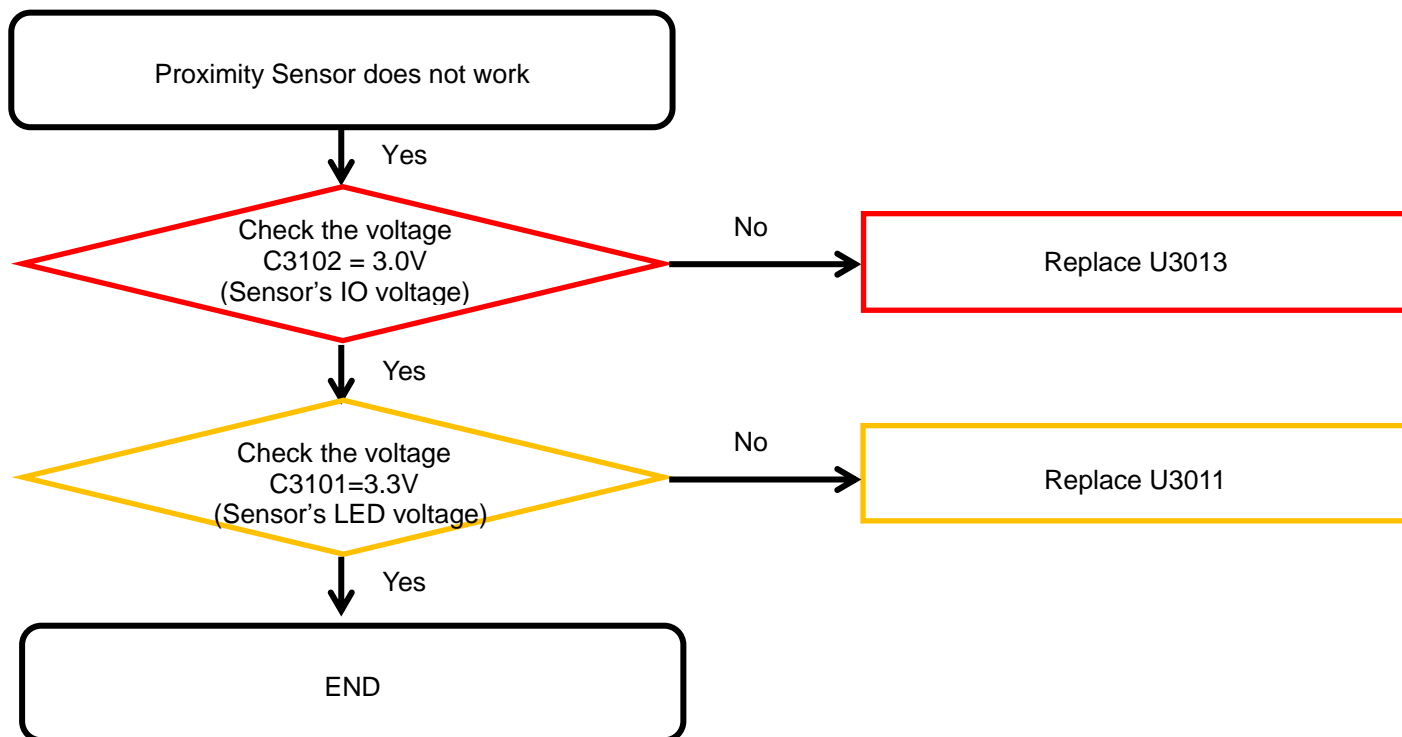
8. Level 3 Repair

8-4-7-1. Accel Sensor



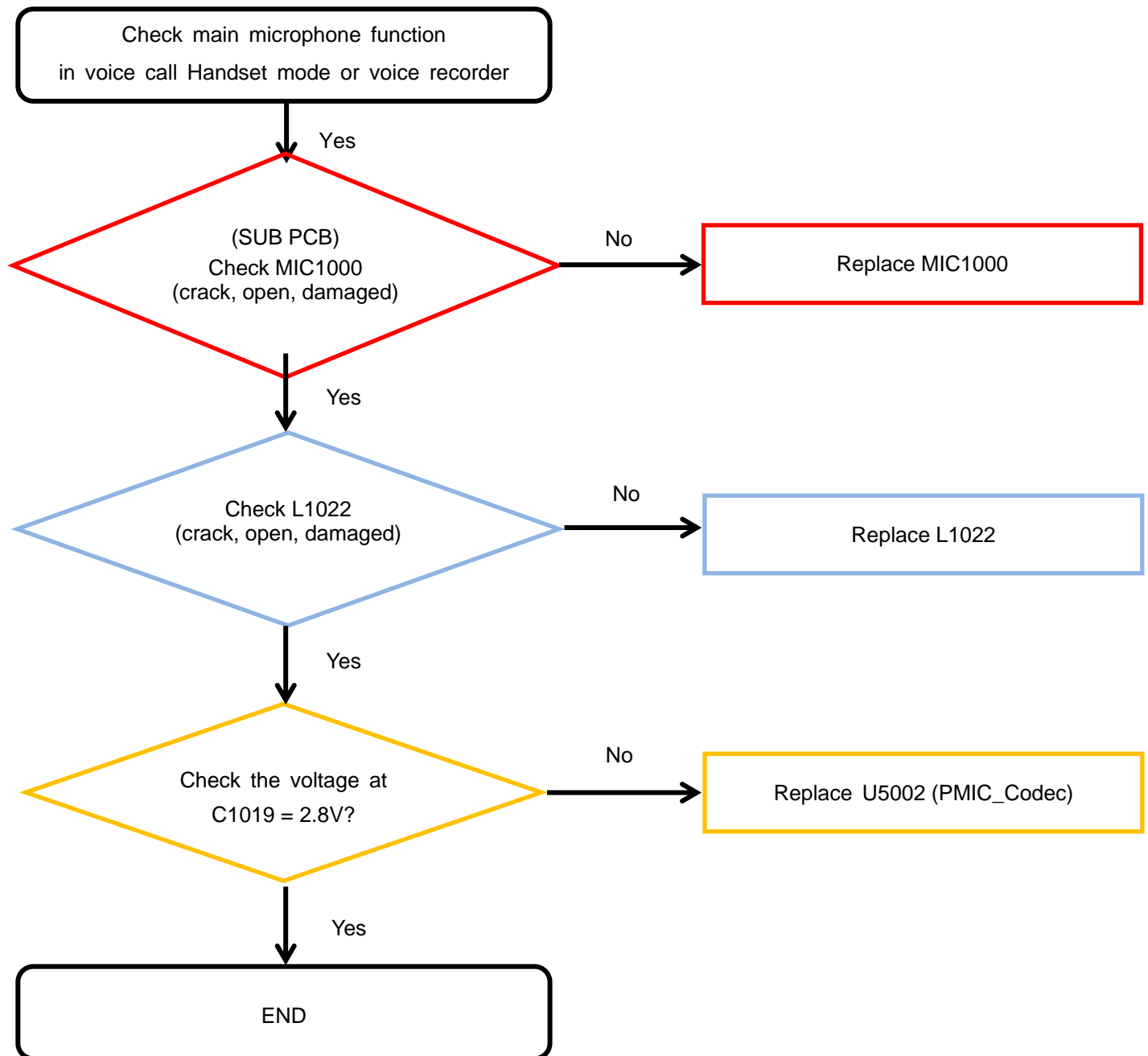
8. Level 3 Repair

8-4-7-2. Proximity sensor



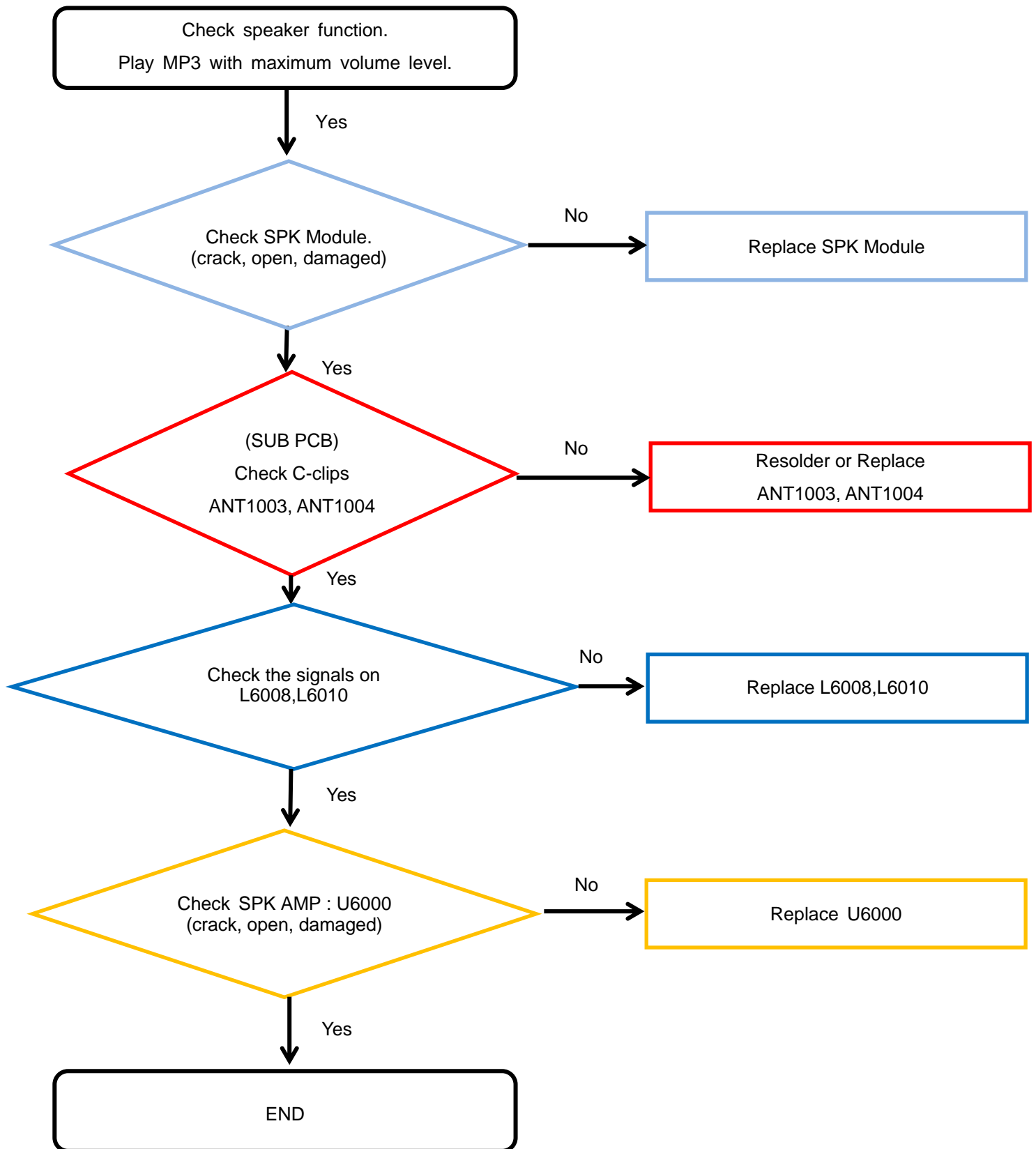
8. Level 3 Repair

8-4-8. Microphone Part - Main MIC



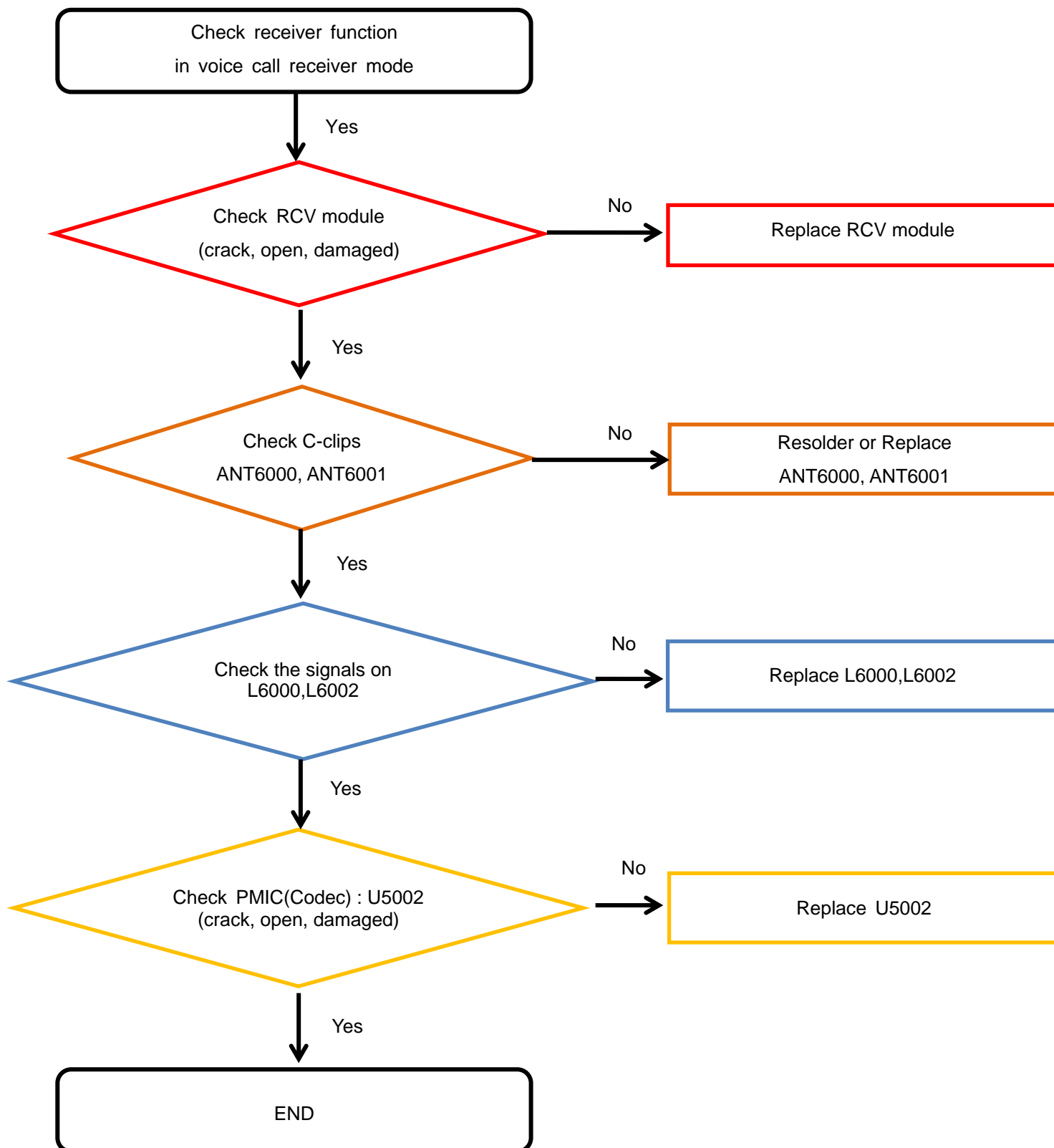
8. Level 3 Repair

8-4-9. Speaker Part



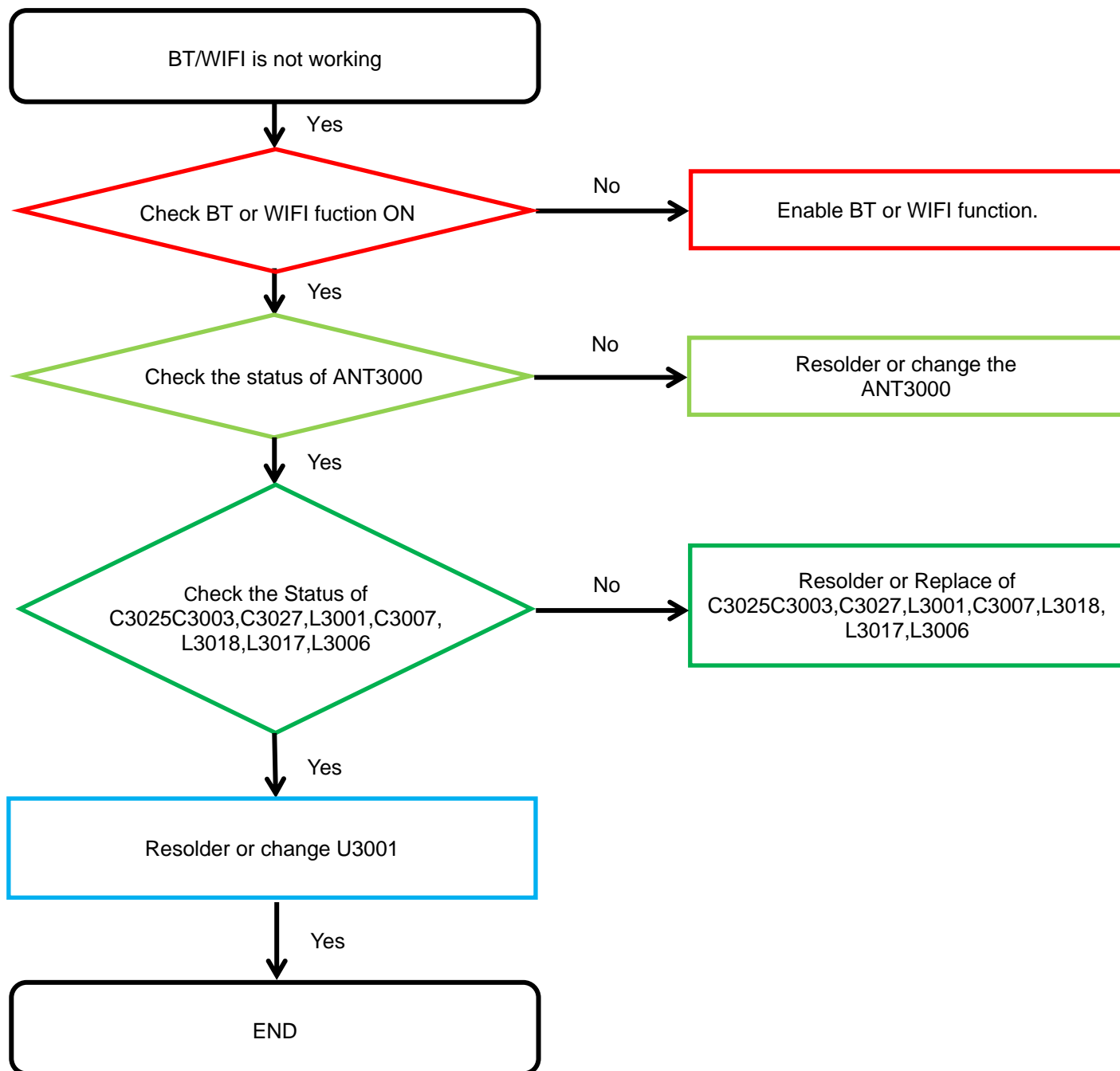
8. Level 3 Repair

8-4-10. Receiver Part



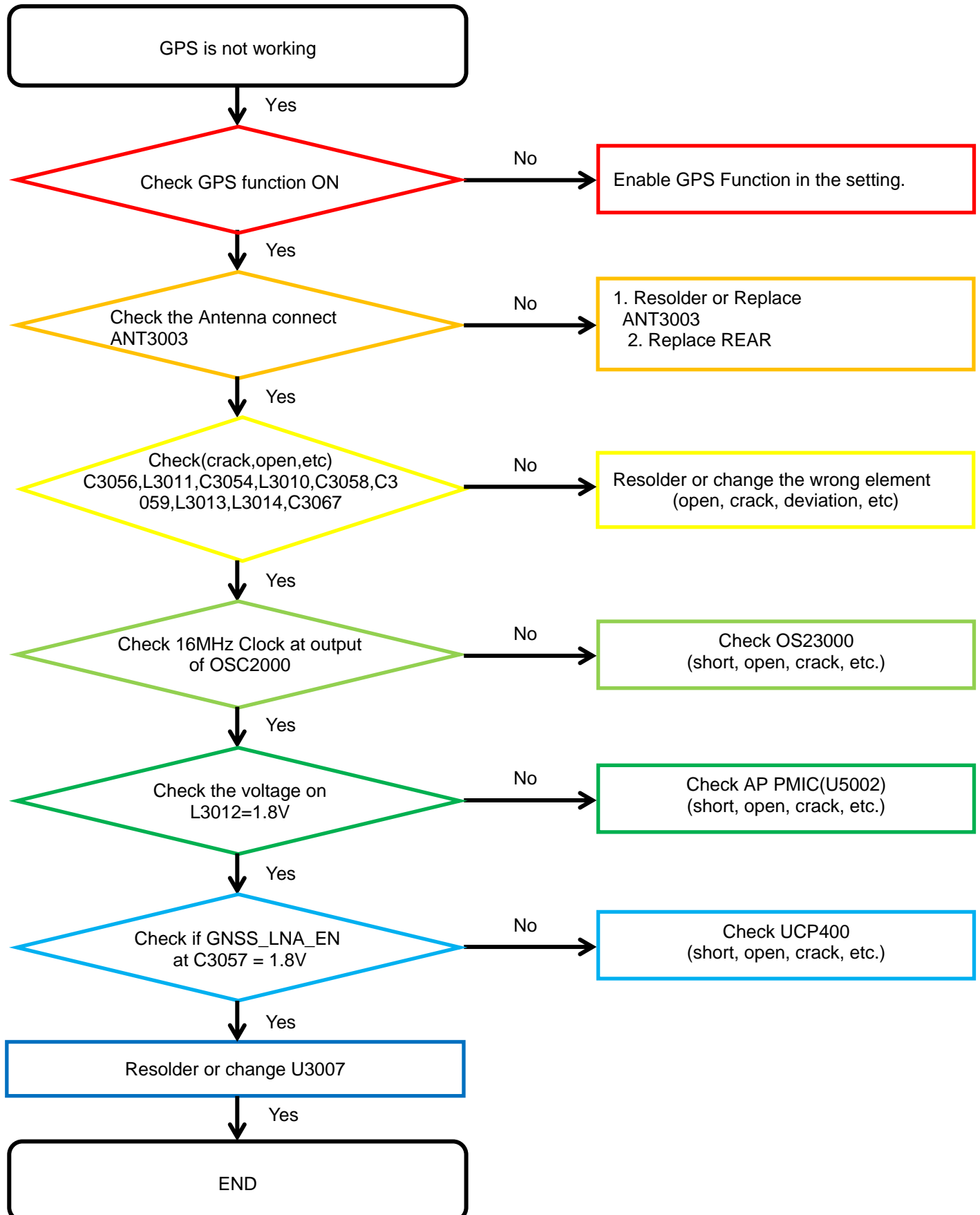
8. Level 3 Repair

8-4-11. BT/WIFI



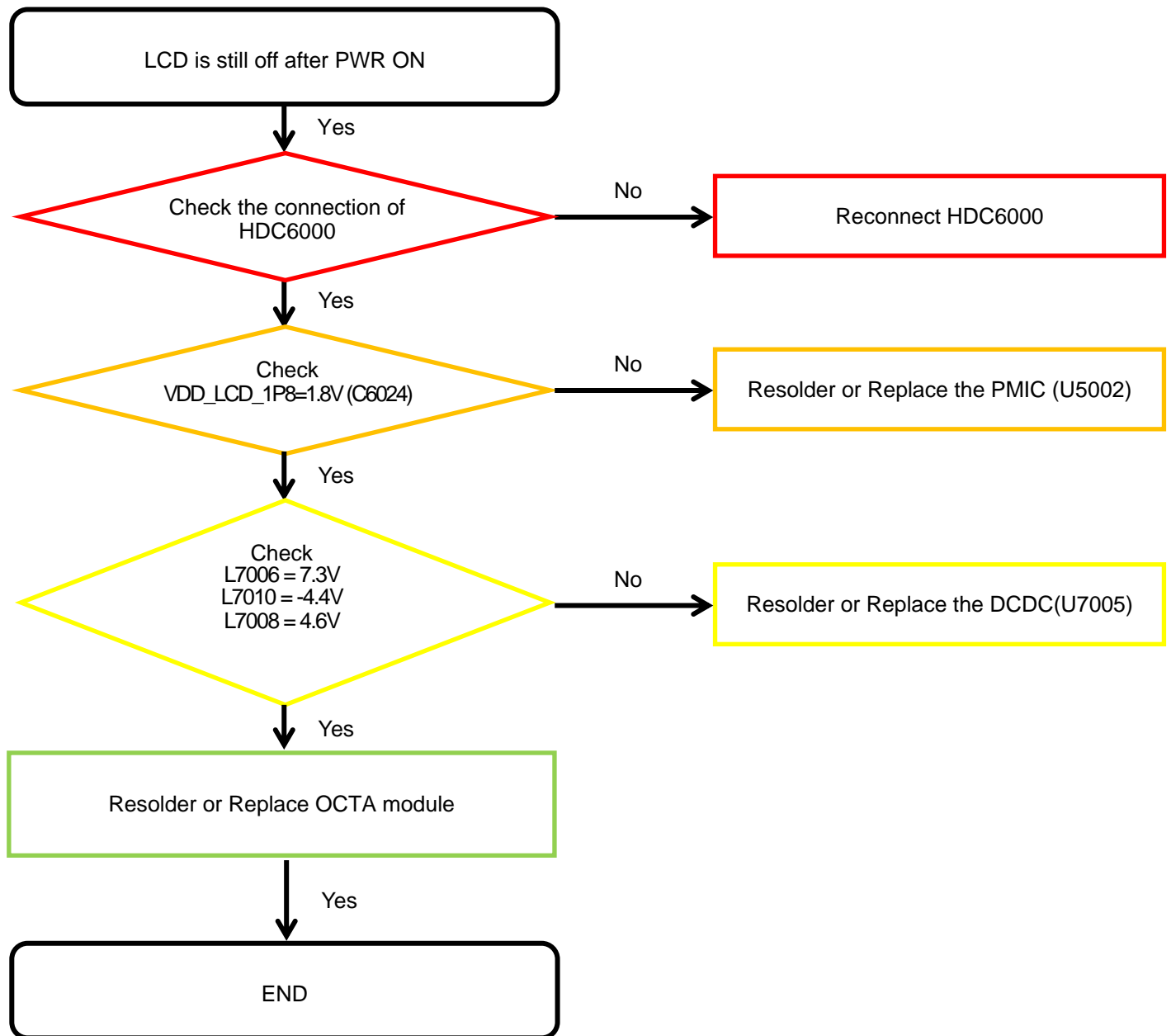
8. Level 3 Repair

8-4-12. GPS



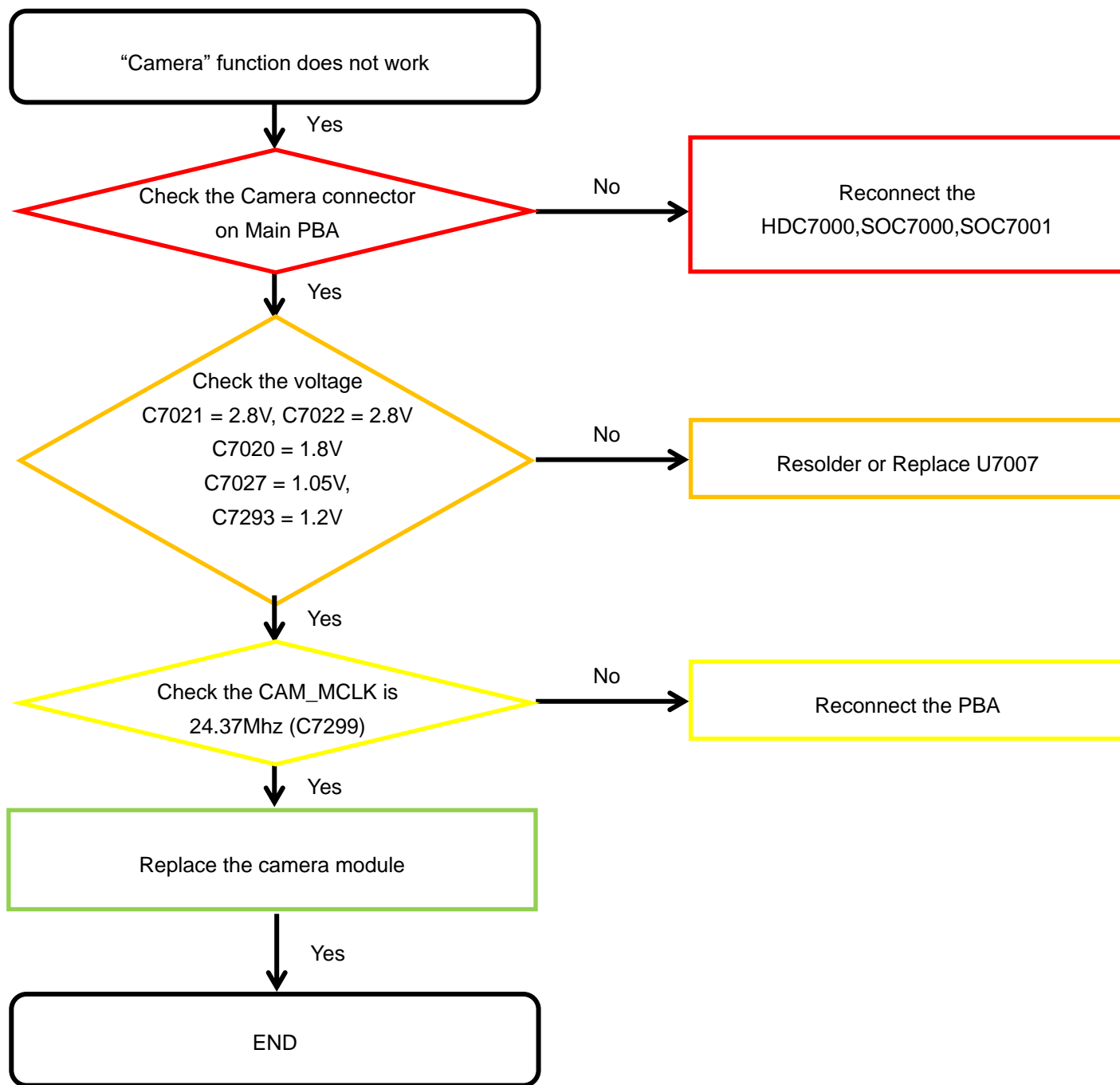
8. Level 3 Repair

8-4-13. Display



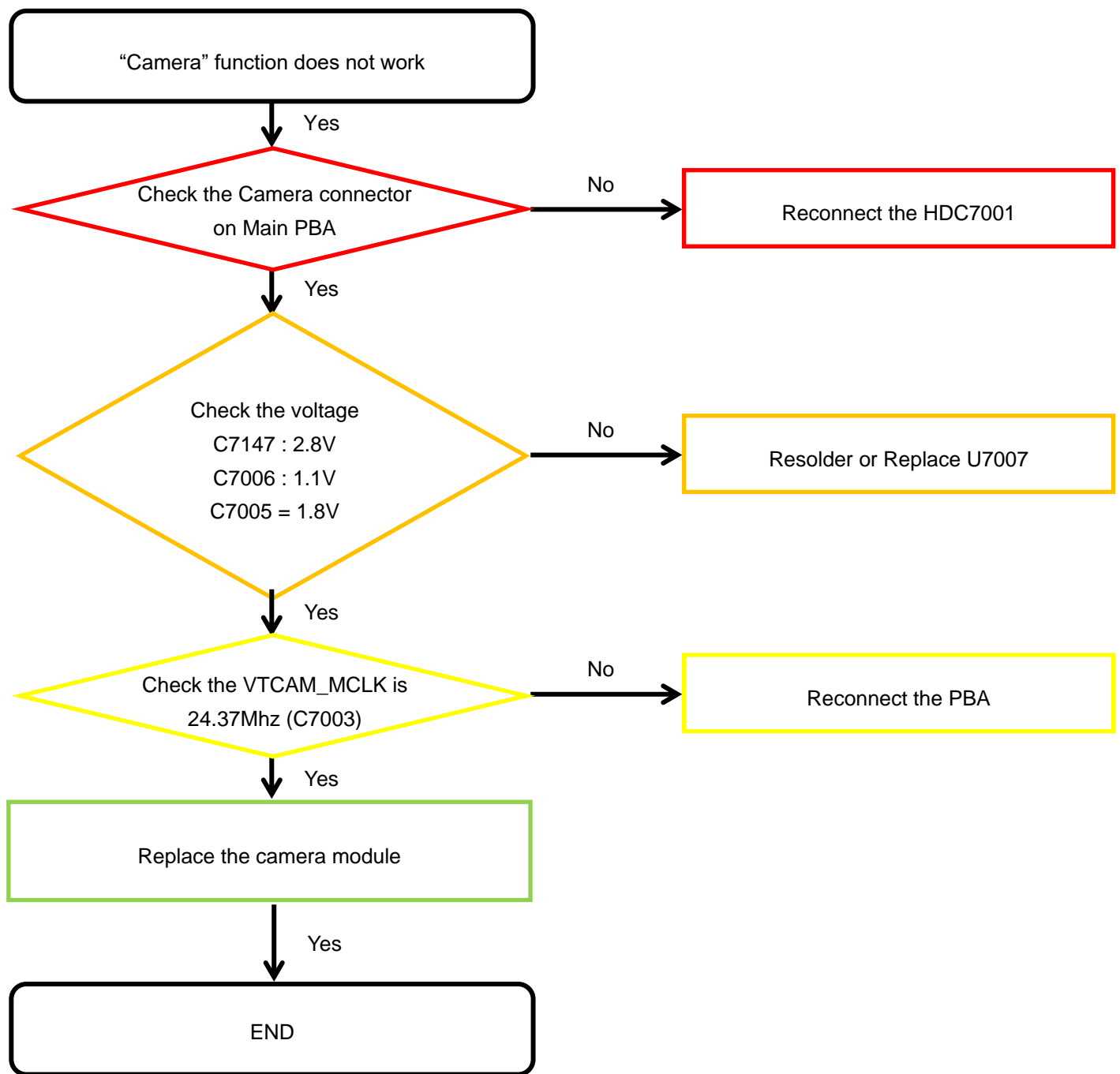
8. Level 3 Repair

8-4-14. Rear CAMERA



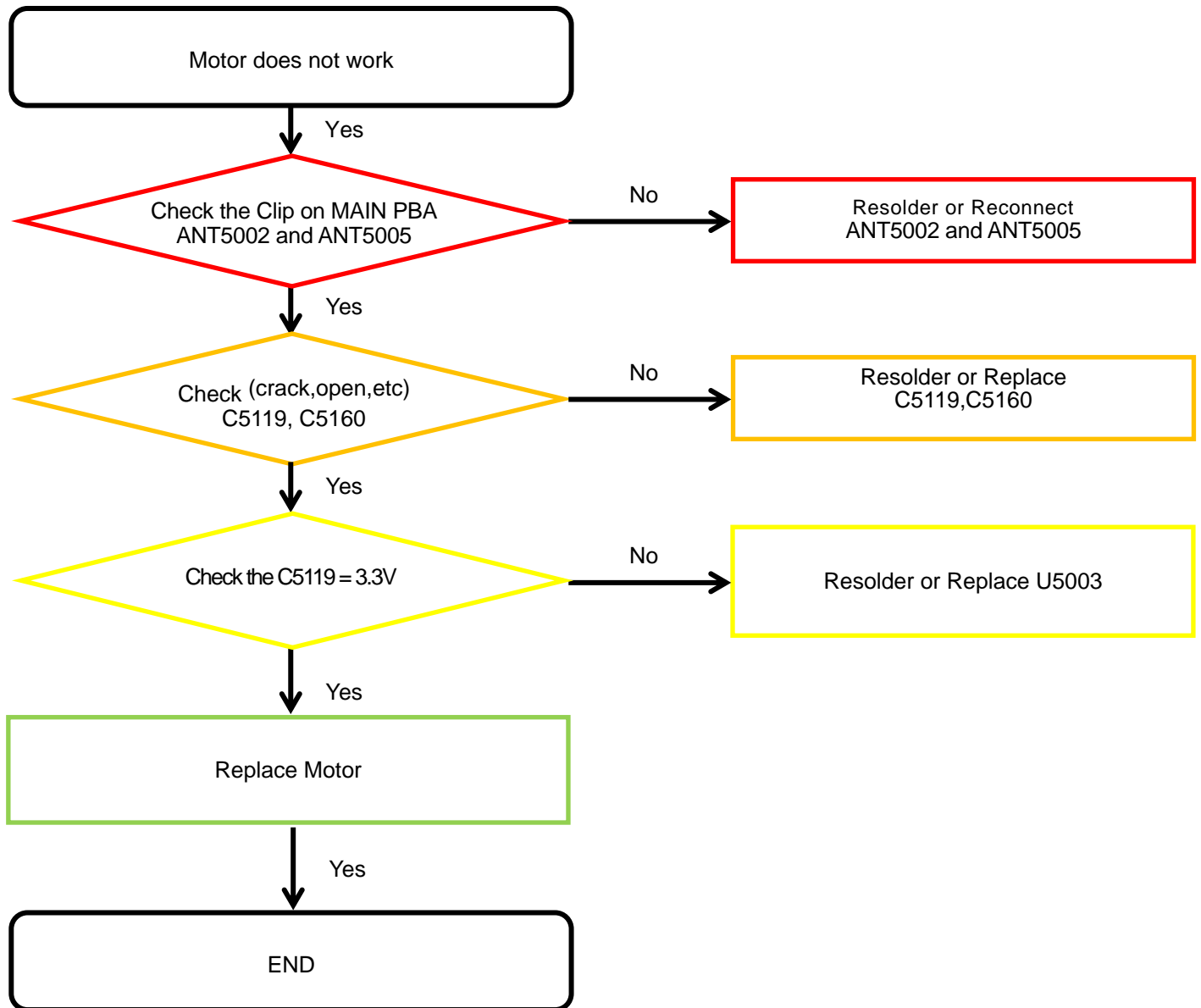
8. Level 3 Repair

8-4-15. Front CAMERA



8. Level 3 Repair

8-4-16. Motor



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