

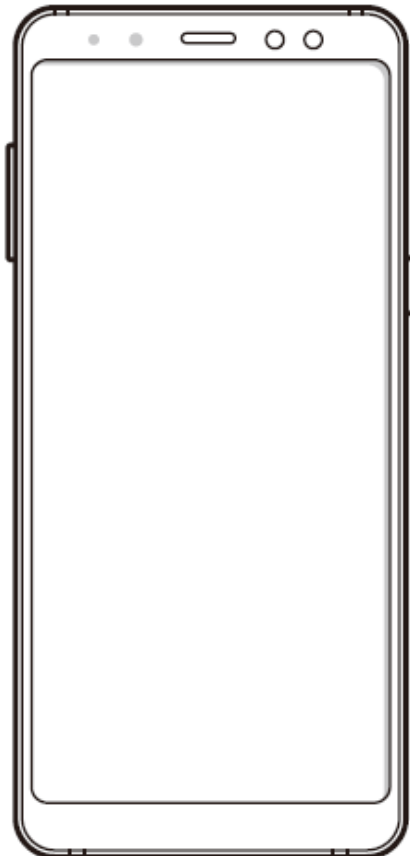
SAMSUNG

Mobile Device SM-A530F/W Common

SERVICE ***Manual***

Mobile Device

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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] Uplink/Downlink		824~849	880~915	1710~1785	1850~1910
		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. WCDMA General Specification

	WCDMA2100(B1)	WCDMA1900(B2)	WCDMA AWS(B4)	WCDMA850(B5)	WCDMA900(B8)
Freq. Band[MHz] Uplink/Downlink	1920~1980 2110~2170	1850~1910 1930~1990	1710~1755 2110~2155	824~849 869~894	880~915 925~960
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

[SM-A530F] 2-4-1. LTE General Specification

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

2. Specification

	LTE Band8	LTE Band12	LTE Band13	LTE Band17	LTE Band18	LTE Band19
Freq. Band[MHz]	880~915	699~716	777~787	704~716	815~830	830~845
Uplink/Downlink	925~960	729~746	746~756	734~746	860~875	875~890
ARFCN range	UL:21450~21799 DL:3450~3799	UL:23010~23179 DL:5010~5179	UL:23180~23279 DL:5180~5279	UL:23730~23849 DL:5730~5849	UL:23850~23999 DL:5850~5999	UL:24000~24149 DL:6000~6149
Tx/Rx spacing (MHz)	45	30	-31	30	45	45
Channel Bandwidth (MHz)	1.4/3/5/10	1.4/3/5/10	1.4/3/5/10	5/10	5/10/15	5/10/15
Modulation	QPSK,16/64QAM 256QAM(DL only)	QPSK,16/64QAM 256QAM(DL only)	QPSK,16/64QAM 256QAM(DL only)	QPSK,16/64QAM 256QAM(DL only)	QPSK,16/64QAM 256QAM(DL only)	QPSK,16/64QAM 256QAM(DL only)
MS Power (dBm)	25.7~-39(↓)	25.7~-39(↓)	25.7~-39(↓)	25.7~-39(↓)	25.7~-39(↓)	25.7~-39(↓)
Sensitivity (QPSK, BW 10MHz) (dBm)	-93.3	-93.3	-93.3	-93.3	-96.3	-96.3

2. Specification

	LTE Band20	LTE Band26	LTE Band28	LTE Band38
Freq. Band[MHz] Uplink/Downlink	832~862 791~821	814~849 859~894	703~748 758~803	2570~2620
ARFCN range	UL:24150~24449 DL:6150~6449	UL:26690~27039 DL:8690~9039	UL:27210~27659 DL:9210~9659	UL/DL:37750 ~ 38249
Tx/Rx spacing (MHz)	-41	45	55	0
Channel Bandwidth (MHz)	5/10/15/20	1.4/3/5/10/15	3/5/10/15/20	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	-93.8	-94.8	-96.3

2. Specification

	LTE Band40	LTE Band41	LTE Band66
Freq. Band[MHz] Uplink/Downlink	2300~2400	2496~2690	1710~1780 2110~2200
ARFCN range	UL/DL:38650 ~ 39649	UL/DL:39650 ~ 41589	UL:131972~132671 DL:66436~67335
Tx/Rx spacing (MHz)	0	0	400
Channel Bandwidth (MHz)	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)
MS Power (dBm)	25.7~-39(↓)	25.7~-39(↓)	25.7~-39(↓)
Sensitivity (QPSK, BW 10MHz) (dBm)	-96.3	-94.3	-95.8

2. Specification

[SM-A530W] 2-4-2. LTE General Specification

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

2. Specification

	LTE Band8	LTE Band12	LTE Band13	LTE Band17	LTE Band20	LTE Band26
Freq. Band[MHz]	880~915	699~716	777~787	704~716	832~862	814~849
Uplink/Downlink	925~960	729~746	746~756	734~746	791~821	859~894
ARFCN range	UL:21450~21799 DL:3450~3799	UL:23010~23179 DL:5010~5179	UL:23180~23279 DL:5180~5279	UL:23730~23849 DL:5730~5849	UL:24150~24449 DL:6150~6449	UL:26690~27039 DL:8690~9039
Tx/Rx spacing (MHz)	45	30	-31	30	-41	45
Channel Bandwidth (MHz)	1.4/3/5/10	1.4/3/5/10	1.4/3/5/10	5/10	5/10/15/20	1.4/3/5/10/15
Modulation	QPSK,16/64QAM 256QAM(DL only)	QPSK,16/64QAM 256QAM(DL only)	QPSK,16/64QAM 256QAM(DL only)	QPSK,16/64QAM 256QAM(DL only)	QPSK,16/64QAM 256QAM(DL only)	QPSK,16/64QAM 256QAM(DL only)
MS Power (dBm)	25.7~-39(↓)	25.7~-39(↓)	25.7~-39(↓)	25.7~-39(↓)	25.7~-39(↓)	25.7~-39(↓)
Sensitivity (QPSK, BW 10MHz) (dBm)	-93.3	-93.3	-93.3	-93.3	-93.3	-93.8

2. Specification

	LTE Band29	LTE Band66
Freq. Band[MHz] Uplink/Downlink	N/A 717~728	1710~1780 2110~2200
ARFCN range	DL:9660~9715	UL:131972~132671 DL:66436~67335
Tx/Rx spacing (MHz)	-	400
Channel Bandwidth (MHz)	3/5/10	1.4/3/5/10/15/20
Modulation	QPSK,16/64QAM 256QAM(DL only)	QPSK,16/64QAM 256QAM(DL only)
MS Power (dBm)	-	25.7~-39(↓)
Sensitivity (QPSK, BW 10MHz) (dBm))	-93.3	-95.8

2. Specification

[SM-A530F] 2-5. TDSCDMA General Specification

	TDSCDMA2010(A)	TDSCDMA1880(F)
Chip rate	1.28 Mcps	1.28 Mcps
OBW	1.6 MHz	1.6 MHz
Freq. Band[MHz] Uplink/Downlink	2010~2025	1880~1920
ARFCN range	10054~10121	9404~9596
Tx/Rx spacing (MHz)	0	0
MS Power (dBm)	25.7 ~ -48(↓)	25.7 ~ -48(↓)
Power Class	2(max+24dBm)	2(max+24dBm)
Sensitivity (dBm /1.28 MHz)	-107.3	-107.3

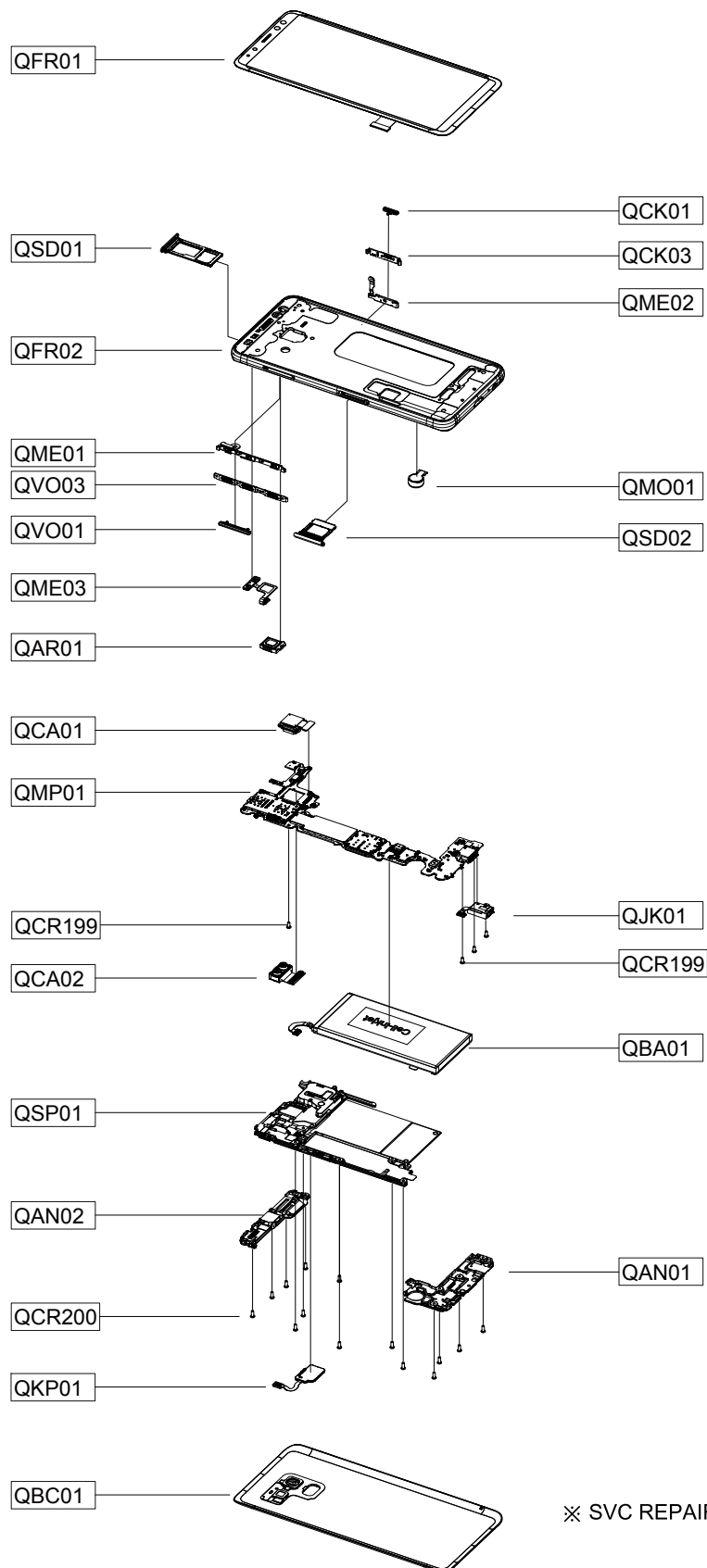
3. Product Function

Main Function

Item	Description
OS	Android V7.1
SM-A530F RF	GSM850 / GSM900 / DCS1800 / PCS1900 WCDMA: B1/ B2/ B4/ B5/ B8 LTE: B1/ B2/ B3/ B4/ B5/ B7/ B8/ B12/ B13/ B17/ B18/ B19/ B20/ B26/ B28/ B38/ B40/ B41/ B66
SM-A530W RF	GSM850 / GSM900 / DCS1800 / PCS1900 WCDMA: B1/ B2/ B4/ B5/ B8 LTE: 1/2/3/4/5/7/8/12/13/17//20/26/29/66
Battery	3000mAh
Base Band	2.2Ghz Quad + 1.6GHz Quad
SM-A530F Other RF	A-GPS, Glonass, BEIDOU, BT5.0, USB 2.0 Type-C, WIFI 802.11 a/b/g/n/ac MIMO, NFC,MST
SM-A530W Other RF	A-GPS, Glonass, BT5.0, USB 2.0 Type-C, WIFI 802.11 a/b/g/n/ac MIMO, NFC,MST
Camera	Front Dual Camera (16M/8M, F1.9), REAR Camera (16MP A/F, F1.7)
LCD	5.6", FHD+, 2220x1080
RAM	4GB
Sensor	Accelerometer, Barometer, Fingerprint Sensor, Gyro Sensor, Geomagnetic Sensor, Hall Sensor, Proximity Sensor, RGB Light Sensor
Accessory	Charger: 5V/2A (AFC: 9V/1.67A) Data cable: 2.8pi, 1.2m(USB Type C) Ear phone: 3.5pi, 4pin

4. Exploded View and Parts List

4-1. Cellular phone Exploded View



※ SVC REPAIR TAPE

5. MAIN Electrical Parts List

[SM-A530F]

Parts Code	Design LOC	Description
0404-001250	D5000	DIODE
0406-001459	U6014,ZD6026	DIODE
0406-001561	D6005,ZD5011,ZD5012	DIODE
0406-001561	ZD5013,ZD6000,ZD6001	DIODE
0406-001561	ZD6027	DIODE
0406-001592	ZD3000,ZD3001,ZD3002	DIODE
0406-001592	ZD3003,ZD3004,ZD3005	DIODE
0406-001592	ZD3006,ZD3007,ZD5001	DIODE
0406-001592	ZD5010,ZD7002,ZD7003	DIODE
0406-001592	ZD7004,ZD7011,ZD7012	DIODE
0406-001645	ZD6016	DIODE
0406-001659	ZD3008,ZD3009,ZD3010	DIODE
0406-001659	ZD3012	DIODE
0406-001675	ZD1001,ZD5019	DIODE
0406-001729	ZD6003,ZD6005	DIODE
0406-001743	D6000,D6001,D6002	DIODE
0406-001743	D6003,D6004,ZD6002	DIODE
0406-001743	ZD6012	DIODE
0406-001780	ZD5003,ZD5004,ZD5005	DIODE
0406-001780	ZD5006	DIODE
0406-001781	ZD6010,ZD6017,ZD6018	DIODE
0406-001789	ZD6007,ZD6025	DIODE
0406-001797	ZD5008,ZD5009	DIODE
0406-001807	ZD5000	DIODE
0406-001808	D5001	DIODE
0505-002088	TR7000	FET-SILICON
0505-003234	Q3000	FET-SILICON
0505-003618	Q5000	FET-SILICON
0601-003667	U7022	LED
0903-002171	U3004	IC
1001-001844	U1016	IC
1001-001911	U1005,U1012,U2000	IC
1001-001974	U1003	IC
1001-001975	U3000	IC
1001-001999	U1008	IC
1001-002022	U1009	IC
1003-002802	U2002	IC

5. MAIN Electrical Parts List

1003-002805	U3012	IC
1009-001066	U3007,U3011	IC
1107-002552	UME5000	IC
1201-003786	U3006	IC
1201-003974	U1000	IC
1201-003978	U1014	IC
1201-003979	U1010	IC
1201-004029	U1002,U1006	IC
1201-004036	U7027	IC
1201-004109	PAM1000	IC
1201-004129	PAM1001	IC
1201-004156	U6002	IC
1203-007884	U7021	IC
1203-008249	U3003,U7063	IC
1203-008431	U7061	IC
1203-008475	U5008	IC
1203-008693	U1017	IC
1203-008696	U7094	IC
1203-008719	U3015	IC
1203-008865	U1011	IC
1203-008867	U3001,U3014,U3017	IC
1203-008867	U6016,U7044,U7074	IC
1203-008870	U7010,U7013,U7025	IC
1203-008872	U3002,U7062	IC
1203-008904	U5001	IC
1203-008913	U7024	IC
1203-008948	U6001	IC
1203-008955	U7008,U7012	IC
1203-008989	U7009	IC
1203-009029	U5011	IC
1204-003685	U6004	IC
1205-005845	U1007	IC
1205-005859	U2004	IC
1205-005860	U3005	IC
1205-005862	U3016	IC
1205-005870	U400	IC
1209-002428	U3009	IC
1209-002450	U3008	IC
1209-002513	U3013	IC

5. MAIN Electrical Parts List

1404-001664	TH5000	THERMISTOR
1404-001724	TH4000,TH4001,VR5000	THERMISTOR
1404-001734	R2002	THERMISTOR
1405-001395	L3019,VR1005,VR1007	VARISTOR
1405-001395	VR1009,VR1011,VR1012	VARISTOR
1405-001395	VR1013,VR2002,VR3000	VARISTOR
1405-001395	VR3001,VR3002,VR6000	VARISTOR
1405-001395	VR6001,VR6002,VR6004	VARISTOR
1405-001395	VR6005,VR6007,VR6008	VARISTOR
1405-001395	VR6009,VR6011,VR6013	VARISTOR
1405-001395	VR6014,VR6015,VR6016	VARISTOR
1405-001395	VR6018	VARISTOR
1405-001403	VR1002,VR1004,VR1006	VARISTOR
1405-001403	VR3005,VR6010	VARISTOR
1405-001404	VR6006	VARISTOR
1405-001410	VR1000	VARISTOR
1405-001412	V1001	VARISTOR
1405-001415	VR1010,VR2000,VR6003	VARISTOR
1405-001415	VR6017	VARISTOR
1405-001416	VR1003,VR1014	VARISTOR
1405-001419	VR1008	VARISTOR
1405-001424	VR2001	VARISTOR
1405-001425	VR1001	VARISTOR
2007-007100	R1008	R-CHIP
2007-007142	R7005	R-CHIP
2007-007190	R6041,R6044	R-CHIP
2007-007315	R3031	R-CHIP
2007-007318	R5017	R-CHIP
2007-007405	R1001	R-CHIP
2007-007741	R2003,R2007,R2008	R-CHIP
2007-007741	R3020,R3027,R5004	R-CHIP
2007-007741	R5005,R5013,R5026	R-CHIP
2007-007741	R5027,R5031,R5034	R-CHIP
2007-007741	R5035,R5051,R6043	R-CHIP
2007-007741	R7004,R7007	R-CHIP
2007-007798	R5039,R5040	R-CHIP
2007-007942	R5028	R-CHIP
2007-007946	R5033	R-CHIP
2007-008044	R3014,R3015,R3016	R-CHIP

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5. MAIN Electrical Parts List

2007-008044	R3017,R3018,R3019	R-CHIP
2007-008531	R3024,R3025,R3026	R-CHIP
2007-008531	R5018,R6005,R7000	R-CHIP
2007-008800	R6028	R-CHIP
2007-009111	R3021,R5050	R-CHIP
2007-009157	R3002,R4028,R4042	R-CHIP
2007-009157	R4043,R5008,R5019	R-CHIP
2007-009158	R5010	R-CHIP
2007-009171	R5006,R5014	R-CHIP
2007-009201	R5048,R6015,R6016	R-CHIP
2007-009201	R6026,R6027	R-CHIP
2007-009212	R4002,R4051,R5007	R-CHIP
2007-009212	R5012,R5049,R6010	R-CHIP
2007-009212	R6023	R-CHIP
2007-009314	R6006,R6018	R-CHIP
2007-009352	R3006,R3007,R4017	R-CHIP
2007-009352	R4018,R4019,R5016	R-CHIP
2007-009352	R7008	R-CHIP
2007-009408	R1007,R3003,R3004	R-CHIP
2007-009408	R3008,R3009,R3011	R-CHIP
2007-009408	R4025,R4026,R4030	R-CHIP
2007-009408	R4031,R4032,R4033	R-CHIP
2007-009408	R4034,R4035,R4036	R-CHIP
2007-009408	R4037,R4038,R4040	R-CHIP
2007-009408	R4046,R4047,R4048	R-CHIP
2007-009408	R4049,R6024	R-CHIP
2007-009410	R6031	R-CHIP
2007-009766	R3032,R6000	R-CHIP
2007-009793	R6030	R-CHIP
2007-009801	R5002,R7006	R-CHIP
2007-009805	R1000,R1006,R1009	R-CHIP
2007-009805	R1010,R1011,R1012	R-CHIP
2007-009805	R1015,R1016,R1018	R-CHIP
2007-009805	R2000	R-CHIP
2007-009920	R4004,R4005,R4012	R-CHIP
2007-009920	R4013	R-CHIP
2007-009969	R6025	R-CHIP
2007-010202	R1013,R3028,R5022	R-CHIP
2007-010202	R5023,R5024	R-CHIP

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2007-011043	R4003,R4006,R4007	R-CHIP
2007-011043	R4009,R4010	R-CHIP
2007-011532	R6037	R-CHIP
2007-011648	C1020,R7009	R-CHIP
2007-012033	R6042	R-CHIP
2007-012038	R5011	R-CHIP
2007-012068	R5025	R-CHIP
2203-000438	C3068	C-CERAMIC
2203-000489	C5143,C5144	C-CERAMIC
2203-000812	C3084,C3100	C-CERAMIC
2203-000995	C3086,C3099,C5116	C-CERAMIC
2203-001153	C3097,C5117	C-CERAMIC
2203-001239	C5126,C5158	C-CERAMIC
2203-002443	C3083	C-CERAMIC
2203-002668	VR3003	C-CERAMIC
2203-005446	C3095	C-CERAMIC
2203-005682	C1033,C1058,C2029	C-CERAMIC
2203-005682	C3053,C5004,C5111	C-CERAMIC
2203-005682	C5112,C5113,C5114	C-CERAMIC
2203-005682	C5146,C5147,C6017	C-CERAMIC
2203-005682	C6029,C6032,C6034	C-CERAMIC
2203-005682	L1035,L1065	C-CERAMIC
2203-005719	C3093	C-CERAMIC
2203-005725	C1066,C3043,C7666	C-CERAMIC
2203-005726	C6036,C6039,C7004	C-CERAMIC
2203-005729	C5142,C6000,C6007	C-CERAMIC
2203-005729	C7010	C-CERAMIC
2203-005731	C2002,C6044,C6045	C-CERAMIC
2203-005732	C1017,C1059,C5118	C-CERAMIC
2203-005732	C5120,C5168	C-CERAMIC
2203-005734	C6042,C6043	C-CERAMIC
2203-005736	C1000,C1001,C1005	C-CERAMIC
2203-005736	C1008,C1009,C1011	C-CERAMIC
2203-005736	C1012,C1013,C1014	C-CERAMIC
2203-005736	C1015,C1016,C1018	C-CERAMIC
2203-005736	C1021,C1025,C1029	C-CERAMIC
2203-005736	C1035,C1050,C1052	C-CERAMIC
2203-005736	C1053,C1055,C1068	C-CERAMIC
2203-005736	C1074,C1078,C1079	C-CERAMIC

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2203-005736	C1080,C1089,C1093	C-CERAMIC
2203-005736	C1102,C1105,C1107	C-CERAMIC
2203-005736	C1118,C1123,C1128	C-CERAMIC
2203-005736	C1149,C1158,C2006	C-CERAMIC
2203-005736	C2008,C2088,C2089	C-CERAMIC
2203-005736	C2094,C2096,C2100	C-CERAMIC
2203-005736	C2104,C2107,C2109	C-CERAMIC
2203-005736	C2110,C2111,C2153	C-CERAMIC
2203-005736	C3001,C3002,C3005	C-CERAMIC
2203-005736	C3006,C3017,C3020	C-CERAMIC
2203-005736	C3024,C3046,C3048	C-CERAMIC
2203-005736	C3094,C7663,C7665	C-CERAMIC
2203-005736	L1002,L1014,L1016	C-CERAMIC
2203-005736	L1032,L1043,L1051	C-CERAMIC
2203-005736	L1059,L1074,L1090	C-CERAMIC
2203-005736	L1097,L2053,L2060	C-CERAMIC
2203-005736	L2080,L3002,L3009	C-CERAMIC
2203-005736	R1002	C-CERAMIC
2203-005777	C1054,C1081,C1124	C-CERAMIC
2203-005777	C2093,L1053	C-CERAMIC
2203-005789	C1023,C1047,C1121	C-CERAMIC
2203-005789	C1143,C1153,C1157	C-CERAMIC
2203-005789	C2037,C2095,C2097	C-CERAMIC
2203-005789	L1020,L1025,L1052	C-CERAMIC
2203-005789	L1067,L1102	C-CERAMIC
2203-005792	C1006,C1099,C1126	C-CERAMIC
2203-005792	C1148,C2108,C6010	C-CERAMIC
2203-005806	C1041,C1042,C1045	C-CERAMIC
2203-005806	C1084,C2090,C2091	C-CERAMIC
2203-006048	C3063	C-CERAMIC
2203-006121	C6041	C-CERAMIC
2203-006123	C2099,L1069	C-CERAMIC
2203-006187	C1034,C1039,C1062	C-CERAMIC
2203-006187	C1096,C1098,C2038	C-CERAMIC
2203-006187	C2043,C3029	C-CERAMIC
2203-006194	C2103,C6018,C6028	C-CERAMIC
2203-006194	C6047	C-CERAMIC
2203-006305	C1127,C1144	C-CERAMIC
2203-006318	C1024,C1156	C-CERAMIC

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2203-006400	C1031,C1057,C1071	C-CERAMIC
2203-006400	C2082,C3013,C3036	C-CERAMIC
2203-006400	C3055,C4009,C6060	C-CERAMIC
2203-006400	C7076,L2082,L6011	C-CERAMIC
2203-006400	R5021	C-CERAMIC
2203-006410	L1028,L2006	C-CERAMIC
2203-006556	C1046,C1075,C1129	C-CERAMIC
2203-006556	C1132,C1135,C6033	C-CERAMIC
2203-006556	C6040	C-CERAMIC
2203-006562	C5099,C5100,C7006	C-CERAMIC
2203-006562	C7007,C7099,C7100	C-CERAMIC
2203-006562	C7101	C-CERAMIC
2203-006620	C7074	C-CERAMIC
2203-006642	C6022,C6025	C-CERAMIC
2203-006648	C6037	C-CERAMIC
2203-006665	C1086,C1117,C2102	C-CERAMIC
2203-006665	C6011,L1085	C-CERAMIC
2203-006668	C2086,C4099	C-CERAMIC
2203-006674	C1048	C-CERAMIC
2203-006707	C1114	C-CERAMIC
2203-006712	C7015	C-CERAMIC
2203-006839	C1065,C2035,C2080	C-CERAMIC
2203-006839	C3008,C3009,C3010	C-CERAMIC
2203-006839	C3011,C3022,C3028	C-CERAMIC
2203-006839	C3061,C3064,C3065	C-CERAMIC
2203-006839	C3066,C3069,C4010	C-CERAMIC
2203-006839	C4030,C4036,C4100	C-CERAMIC
2203-006839	C5017,C5124,C5125	C-CERAMIC
2203-006839	C5167,C6001,C6004	C-CERAMIC
2203-006839	C6005,C6014,C6016	C-CERAMIC
2203-006839	C6030,C6035,C6038	C-CERAMIC
2203-006846	C4000,C4001,C4004	C-CERAMIC
2203-006846	C4005	C-CERAMIC
2203-006872	C5000,C5049,C5052	C-CERAMIC
2203-006872	C5053,C5055,C5062	C-CERAMIC
2203-006872	C5069,C5070,C5073	C-CERAMIC
2203-006872	C5076,C5086,C5128	C-CERAMIC
2203-006872	C5130,C7008	C-CERAMIC
2203-006978	C6006,C6058	C-CERAMIC

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2203-006979	C2001,C2058,C2062	C-CERAMIC
2203-006979	C2064,C2065,C2070	C-CERAMIC
2203-006979	C2073,C2075,C2079	C-CERAMIC
2203-007194	C3054,C7003,C7013	C-CERAMIC
2203-007210	C4101,C4102,C4103	C-CERAMIC
2203-007210	C4104,C4105,C5060	C-CERAMIC
2203-007210	C5087	C-CERAMIC
2203-007271	C1134,C5050,C5097	C-CERAMIC
2203-007271	C5148,C5155	C-CERAMIC
2203-007369	C3025	C-CERAMIC
2203-007392	C5002,C5037,C5098	C-CERAMIC
2203-007393	C1161,C5005,C5014	C-CERAMIC
2203-007393	C5020,C5024,C5025	C-CERAMIC
2203-007393	C5043,C5045,C5048	C-CERAMIC
2203-007393	C5057,C5059,C5077	C-CERAMIC
2203-007393	C5139,C5141	C-CERAMIC
2203-007456	C1043,C1044,C5115	C-CERAMIC
2203-007456	C5165	C-CERAMIC
2203-007474	C4049,C4052,C4055	C-CERAMIC
2203-007781	C7042,C7207,C7213	C-CERAMIC
2203-007796	C1076,C1159,C2063	C-CERAMIC
2203-007796	C2072,C2078,C3012	C-CERAMIC
2203-007796	C3016,C3018,C3031	C-CERAMIC
2203-007796	C3039,C3070,C3071	C-CERAMIC
2203-007796	C3073,C3074,C3081	C-CERAMIC
2203-007796	C3082,C3089,C3090	C-CERAMIC
2203-007796	C3091,C4003,C4007	C-CERAMIC
2203-007796	C4013,C4014,C4017	C-CERAMIC
2203-007796	C4018,C4019,C4020	C-CERAMIC
2203-007796	C4021,C4022,C4023	C-CERAMIC
2203-007796	C4024,C4025,C4026	C-CERAMIC
2203-007796	C4027,C4028,C4029	C-CERAMIC
2203-007796	C4031,C4032,C4033	C-CERAMIC
2203-007796	C4034,C4035,C4037	C-CERAMIC
2203-007796	C4038,C4041,C4042	C-CERAMIC
2203-007796	C4043,C4044,C4045	C-CERAMIC
2203-007796	C4047,C4048,C4059	C-CERAMIC
2203-007796	C4060,C4062,C4063	C-CERAMIC
2203-007796	C4065,C4066,C4067	C-CERAMIC

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2203-007796	C4068,C4072,C4073	C-CERAMIC
2203-007796	C4074,C4075,C4076	C-CERAMIC
2203-007796	C4077,C4078,C4081	C-CERAMIC
2203-007796	C4082,C4088,C4089	C-CERAMIC
2203-007796	C4090,C4091,C4093	C-CERAMIC
2203-007796	C4094,C4095,C4096	C-CERAMIC
2203-007796	C4097,C4098,C5003	C-CERAMIC
2203-007796	C5038,C5040,C5056	C-CERAMIC
2203-007796	C5061,C5063,C5065	C-CERAMIC
2203-007796	C5066,C5067,C5068	C-CERAMIC
2203-007796	C5071,C5072,C5074	C-CERAMIC
2203-007796	C5075,C5078,C5080	C-CERAMIC
2203-007796	C5081,C5082,C5083	C-CERAMIC
2203-007796	C5084,C5085,C5088	C-CERAMIC
2203-007796	C5090,C5129,C5157	C-CERAMIC
2203-007796	C6002,C6019,C6020	C-CERAMIC
2203-007796	C6021,C6063,C6070	C-CERAMIC
2203-007796	C6073,C6074,C7016	C-CERAMIC
2203-007796	C7034,C7036,C7038	C-CERAMIC
2203-007796	C7040,C7041,C7070	C-CERAMIC
2203-007796	C7072,C7095,C7096	C-CERAMIC
2203-007796	C7172,C7174,C7175	C-CERAMIC
2203-007796	C7176,C7177,C7181	C-CERAMIC
2203-007796	C7182,C7186	C-CERAMIC
2203-008094	C1070	C-CERAMIC
2203-008097	C1130,C1131,C1133	C-CERAMIC
2203-008097	C1136,C2076,C6064	C-CERAMIC
2203-008158	C5028,C5153	C-CERAMIC
2203-008242	C2004,C3000,C3003	C-CERAMIC
2203-008242	C3004,C3023,C4039	C-CERAMIC
2203-008242	C4084,C4087,C4092	C-CERAMIC
2203-008242	C5001,C5136,C5137	C-CERAMIC
2203-008242	C5138,C7017,C7030	C-CERAMIC
2203-008312	C4008,C4016,C4057	C-CERAMIC
2203-008312	C5008,C5015,C5019	C-CERAMIC
2203-008312	C5027,C5030,C5032	C-CERAMIC
2203-008312	C5039,C5044,C5047	C-CERAMIC
2203-008470	C2009,C7185	C-CERAMIC
2203-008529	C3101	C-CERAMIC

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2203-008572	C5064,C5149,C5152	C-CERAMIC
2203-008654	C5119,C5123	C-CERAMIC
2203-008692	C1056,C1095	C-CERAMIC
2203-008749	C5159	C-CERAMIC
2203-008860	C1077,C2014,C3015	C-CERAMIC
2203-008860	C3035,C3038,C3075	C-CERAMIC
2203-008860	C3076,C3079,C3085	C-CERAMIC
2203-008860	C5105,C5154,C6059	C-CERAMIC
2203-008860	C7032,C7033,C7035	C-CERAMIC
2203-008860	C7037,C7039,C7069	C-CERAMIC
2203-008860	C7071,C7158,C7183	C-CERAMIC
2203-008876	C3007,C3080,C5079	C-CERAMIC
2203-008876	C5133,C5134,C5135	C-CERAMIC
2203-008876	C7023,C7024,C7046	C-CERAMIC
2203-008876	C7066,C7067,C7097	C-CERAMIC
2203-008876	C7098,C7103,C7173	C-CERAMIC
2203-008876	C7184	C-CERAMIC
2203-009210	C3088,C3098	C-CERAMIC
2203-009537	C5051	C-CERAMIC
2203-009618	C5150,C6066	C-CERAMIC
2203-009733	C1137,C1160,C2000	C-CERAMIC
2203-009733	C2057,C2061,C2066	C-CERAMIC
2203-009733	C2069,C2074,C3047	C-CERAMIC
2203-009733	C3077,C5007,C5010	C-CERAMIC
2203-009733	C5013,C5018,C5022	C-CERAMIC
2203-009733	C5029,C5031,C5035	C-CERAMIC
2203-009733	C5041,C5046,C7001	C-CERAMIC
2203-009733	C7005,C7011,C7012	C-CERAMIC
2203-009733	C7014,C7635	C-CERAMIC
2203-009736	C3026,C3052,C4006	C-CERAMIC
2203-009736	C4040,C4046,C4064	C-CERAMIC
2203-009736	C4083,C4086,C5006	C-CERAMIC
2203-009736	C5058,C5089,C5131	C-CERAMIC
2203-009736	C5132,C5164,C6003	C-CERAMIC
2203-009736	C6015	C-CERAMIC
2203-009858	C5151,C6061,C6075	C-CERAMIC
2203-009859	C7206,C7214	C-CERAMIC
2203-009969	C6065	C-CERAMIC
2409-001399	TA3000	C-CERAMIC

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2703-002858	L1011,L1027,L1076	INDUCTOR
2703-002900	C2131,L6003	INDUCTOR
2703-002901	L2063	INDUCTOR
2703-002955	C3034,L1105	INDUCTOR
2703-002958	C3027,L1004,L1077	INDUCTOR
2703-002959	C1101,L1012,L1019	INDUCTOR
2703-002959	L1036,L1039,L2081	INDUCTOR
2703-003121	L1021	INDUCTOR
2703-003476	L3001	INDUCTOR
2703-003878	L6018	INDUCTOR
2703-003921	C3042	INDUCTOR
2703-003970	L1124,L3017	INDUCTOR
2703-004000	C2026	INDUCTOR
2703-004001	L3020	INDUCTOR
2703-004012	C1002,C1092,C1140	INDUCTOR
2703-004012	L1003,L1061,L1100	INDUCTOR
2703-004012	L2052	INDUCTOR
2703-004013	C1010,C1145,L1017	INDUCTOR
2703-004013	L1050,L3010	INDUCTOR
2703-004014	L1114	INDUCTOR
2703-004018	C1064,L1068,L1075	INDUCTOR
2703-004018	L1086,L1087	INDUCTOR
2703-004030	L1013,L1099,L1113	INDUCTOR
2703-004032	L1010,L2054,L2061	INDUCTOR
2703-004032	L2062	INDUCTOR
2703-004033	L1073,L1108	INDUCTOR
2703-004034	C1138,C2098,C3032	INDUCTOR
2703-004034	L1015,L1062,L2004	INDUCTOR
2703-004034	L2008,L2010,L3000	INDUCTOR
2703-004035	C2130,L1009,L1064	INDUCTOR
2703-004035	L1103,L2051,L2056	INDUCTOR
2703-004036	C1069,C1072,C1088	INDUCTOR
2703-004036	L1031,L1034,L1107	INDUCTOR
2703-004036	L3004	INDUCTOR
2703-004037	C1019,C1073,L1007	INDUCTOR
2703-004037	L1044	INDUCTOR
2703-004038	C2092,C2106,L1042	INDUCTOR
2703-004038	L2019,L2058,L2065	INDUCTOR
2703-004038	L3006	INDUCTOR

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2703-004171	L7000,L7003	INDUCTOR
2703-004212	L6012	INDUCTOR
2703-004259	L2016	INDUCTOR
2703-004286	L2055,L2059	INDUCTOR
2703-004287	L2057	INDUCTOR
2703-004290	C1049	INDUCTOR
2703-004317	C3014	INDUCTOR
2703-004328	C1063,C1097,C2138	INDUCTOR
2703-004328	C3049,L1083,L1111	INDUCTOR
2703-004328	L1118,L1122	INDUCTOR
2703-004366	C2018,L1001,L1054	INDUCTOR
2703-004366	L1055,L1057,L1079	INDUCTOR
2703-004366	L1116,L2064	INDUCTOR
2703-004367	C1067,C1116,C1147	INDUCTOR
2703-004367	L1026,L1030,L1071	INDUCTOR
2703-004367	L1084,L1088,L1089	INDUCTOR
2703-004367	L2020	INDUCTOR
2703-004368	C3033,C3037,L3007	INDUCTOR
2703-004408	C2027,L1123,L2003	INDUCTOR
2703-004763	L1115	INDUCTOR
2703-004764	L1040,L2067,L2073	INDUCTOR
2703-004764	L6004	INDUCTOR
2703-004862	C1030,L1063	INDUCTOR
2703-004976	L2066	INDUCTOR
2703-005066	L1119	INDUCTOR
2703-005067	L5000,L5005,L5006	INDUCTOR
2703-005067	L5007,L5008	INDUCTOR
2703-005087	C3040,L1038	INDUCTOR
2703-005089	L1029	INDUCTOR
2703-005117	L7007,L7103	INDUCTOR
2703-005118	L7101	INDUCTOR
2703-005136	L5015	INDUCTOR
2703-005201	L5002,L5004,L5014	INDUCTOR
2703-005295	L1018	INDUCTOR
2703-005372	L3015,L3016	INDUCTOR
2703-005505	L6002,L7008	INDUCTOR
2703-005581	L5003	INDUCTOR
2801-005393	OSC5000	CRYSTAL
2805-001118	TCX2000	OSCILLATOR

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2901-001690	C4011,C4015,C4050	FILTER-EMI
2901-001690	C4054,C4056,C4058	FILTER-EMI
2901-001690	C4070	FILTER-EMI
2901-001798	F7008,F7009,F7012	FILTER-EMI
2901-001798	F7013,F7014	FILTER-EMI
2904-002143	F1005	FILTER
2904-002211	F2001	FILTER
2904-002256	F1010	FILTER
2904-002257	F2005	FILTER
2904-002336	F2006	FILTER
2904-002339	F2003	FILTER
2904-002345	F1009	FILTER
2904-002349	F2004	FILTER
2904-002350	F1003	FILTER
2904-002355	U3018	FILTER
2904-002365	F1002	FILTER
2904-002381	F3000	FILTER
2910-000364	F1007	FILTER
2910-000390	F1004	FILTER
2910-000402	F1006	FILTER
2910-000404	F1008	FILTER
2911-000430	U2003	FILTER
2911-000452	U1001	FILTER
3003-001232	MIC6000,MIC6001	MIC-CONDENSOR
3301-001885	L6013,L6016	CORE-FERRITE BEAD
3301-002078	L6007,L6009,L6014	CORE-FERRITE BEAD
3301-002078	L6015,L6017	CORE-FERRITE BEAD
3301-002085	L6000,L6001	CORE-FERRITE BEAD
3301-002122	L1120,L1121,L2000	CORE-FERRITE BEAD
3301-002122	L6005,L6006	CORE-FERRITE BEAD
3301-002223	L7001,L7002,L7005	CORE-FERRITE BEAD
3301-002236	L3011,L3012,L6008	CORE-FERRITE BEAD
3301-002236	L6010,L6019,L6020	CORE-FERRITE BEAD
3301-002236	R7003	CORE-FERRITE BEAD
3301-002237	L1000,L1127,L2002	CORE-FERRITE BEAD
3301-002237	L2079,L3008	CORE-FERRITE BEAD
3301-002238	L2001,L2040	CORE-FERRITE BEAD
3301-002239	L1008,L1041,L1106	CORE-FERRITE BEAD
3301-002243	L2038,L2039	CORE-FERRITE BEAD

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3301-002286	L3013,L3014	CORE-FERRITE BEAD
3301-002312	L2033,L2037,L2043	CORE-FERRITE BEAD
3301-002312	L2045,L7004,L7009	CORE-FERRITE BEAD
3301-002312	L7010	CORE-FERRITE BEAD
3301-002331	L5013,L5016	CORE-FERRITE BEAD
3705-001708	RFS1000,RFS1001	CONNECTOR-COAXIAL
3709-001883	SIM6001	CONNECTOR-CARD EDGE
3709-001892	SIM6000	CONNECTOR-CARD EDGE
3711-008508	HDC7000	CONNECTOR-HEADER
3711-008593	HDC7001	CONNECTOR-HEADER
3711-008716	HEA7002	CONNECTOR-HEADER
3711-008824	HDC3000,HDC3001	CONNECTOR-HEADER
3711-008847	HDC5000	CONNECTOR-HEADER
3711-008997	HDC6000	CONNECTOR-HEADER
3712-001604	ANT1002,ANT1006	CONNECTOR
3712-001604	ANT2003,ANT2007	CONNECTOR
3712-001604	ANT2012,ANT2013	CONNECTOR
3712-001604	ANT3002,ANT3003	CONNECTOR
3712-001604	ANT3004,ANT3005	CONNECTOR
3712-001604	ANT6000,ANT6001	CONNECTOR
3712-001621	ANT5000,ANT5004	CONNECTOR
3712-001621	ANT6002,ANT6003	CONNECTOR
3712-001626	ANT1007,ANT3006	CONNECTOR
3712-001626	ANT5002,ANT5003	CONNECTOR
3712-001634	ANT5001,ANT5005	CONNECTOR
3712-001634	ANT5006,ANT5007	CONNECTOR
3712-001666	ANT1000,ANT1004	CONNECTOR
3712-001666	ANT2000,ANT2001	CONNECTOR
3712-001666	ANT2004,ANT2005	CONNECTOR
3712-001666	ANT2008,ANT2009	CONNECTOR
3712-001666	ANT2010,ANT2011	CONNECTOR
3712-001666	ANT2015,ANT3000	CONNECTOR
3712-001731	ANT1001,ANT1003	CONNECTOR
3712-001731	ANT3007	CONNECTOR
3722-004110	IFC5000	JACK-PHONE
4709-002284	F3001	RF-MODULE
4709-002387	F1000	RF-MODULE
4709-002464	F2000	RF-MODULE
4709-002589	CPL1000,CPL1001	RF-MODULE

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GH61-08265A	SUS6001	SUS
GH61-12118A	SUS6000	SUS
GH61-12423A	SUS6002	SUS
GH62-00042A	GA6000	Gasket
GH63-12632A	SC6008	Shield can
GH63-12874A	SC6002	Shield can
GH63-13321A	SC6003	Shield can
GH63-13700A	SC6004	Shield can
GH63-13704A	SC6001	Shield can
GH63-14237A	SC6011	Shield can
GH63-14915A	SC6007	Shield can
GH63-14916A	SC6006	Shield can
GH63-14917A	SC6005	Shield can
1105-002915	U400UP	Memory
GH02-15864A	SC6004SP	Tape

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[SM-A530W]

Parts Code	Design LOC	Description
0404-001250	D5000	DIODE
0406-001459	U6014,ZD6026	DIODE
0406-001561	D6005,ZD5011,ZD5012	DIODE
0406-001561	ZD5013,ZD6000,ZD6001	DIODE
0406-001561	ZD6027	DIODE
0406-001592	ZD3000,ZD3001,ZD3002	DIODE
0406-001592	ZD3003,ZD3004,ZD3005	DIODE
0406-001592	ZD3006,ZD3007,ZD5001	DIODE
0406-001592	ZD5010,ZD7002,ZD7003	DIODE
0406-001592	ZD7004,ZD7011,ZD7012	DIODE
0406-001645	ZD6016	DIODE
0406-001659	ZD3008,ZD3009,ZD3010	DIODE
0406-001659	ZD3012	DIODE
0406-001675	ZD1001,ZD5019	DIODE
0406-001728	ZD5000	DIODE
0406-001729	ZD6003,ZD6005	DIODE
0406-001743	D6000,D6001,D6002	DIODE
0406-001743	D6003,D6004,ZD6002	DIODE
0406-001743	ZD6012	DIODE
0406-001776	ZD1000	DIODE
0406-001780	ZD5003,ZD5004,ZD5005	DIODE
0406-001780	ZD5006	DIODE
0406-001781	ZD6010,ZD6017,ZD6018	DIODE
0406-001789	ZD6007,ZD6025	DIODE
0406-001797	ZD5008,ZD5009	DIODE
0406-001808	D5001	DIODE
0505-002088	TR7000	FET-SILICON
0505-003234	Q3000	FET-SILICON
0505-003618	Q5000	FET-SILICON
0601-003667	U7022	LED
0903-002171	U3004	IC
1001-001844	U1016	IC
1001-001911	U1005,U1012,U2000	IC
1001-001974	U1003	IC
1001-001975	U3000	IC
1001-001999	U1008	IC
1001-002022	U1009	IC

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1003-002802	U2002	IC
1003-002805	U3012	IC
1009-001066	U3007,U3011	IC
1201-003786	U3006	IC
1201-003972	U1014	IC
1201-003979	U1010	IC
1201-004029	U1006,U2001	IC
1201-004036	U7027	IC
1201-004084	U1000	IC
1201-004109	PAM1000	IC
1201-004129	PAM1001	IC
1201-004156	U6002	IC
1203-007884	U7021	IC
1203-008249	U3003,U7063	IC
1203-008431	U7061	IC
1203-008475	U5008	IC
1203-008693	U1017	IC
1203-008696	U7094	IC
1203-008719	U3015	IC
1203-008865	U1011	IC
1203-008867	U3001,U3014,U3017	IC
1203-008867	U6016,U7044,U7074	IC
1203-008870	U7010,U7013,U7025	IC
1203-008872	U3002,U7062	IC
1203-008904	U5001	IC
1203-008913	U7024	IC
1203-008948	U6001	IC
1203-008955	U7008,U7012	IC
1203-008989	U7009	IC
1203-009029	U5011	IC
1204-003685	U6004	IC
1205-005845	U1007	IC
1205-005859	U2004	IC
1205-005860	U3005	IC
1205-005862	U3016	IC
1205-005870	U400	IC
1209-002428	U3009	IC
1209-002450	U3008	IC
1209-002513	U3013	IC

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1404-001664	TH5000	THERMISTOR
1404-001724	TH4000,TH4001,VR5000	THERMISTOR
1404-001734	R2002	THERMISTOR
1405-001395	L3019,VR1005,VR1007	VARISTOR
1405-001395	VR1009,VR1011,VR1012	VARISTOR
1405-001395	VR1013,VR2002,VR3000	VARISTOR
1405-001395	VR3001,VR3002,VR6000	VARISTOR
1405-001395	VR6001,VR6002,VR6004	VARISTOR
1405-001395	VR6005,VR6007,VR6008	VARISTOR
1405-001395	VR6009,VR6011,VR6013	VARISTOR
1405-001395	VR6014,VR6015,VR6016	VARISTOR
1405-001395	VR6018	VARISTOR
1405-001403	VR1002,VR1004,VR1006	VARISTOR
1405-001403	VR3005,VR6010	VARISTOR
1405-001404	VR6006	VARISTOR
1405-001410	VR1000	VARISTOR
1405-001412	V1001	VARISTOR
1405-001415	VR1010,VR2000	VARISTOR
1405-001416	VR1003,VR1014	VARISTOR
1405-001419	VR1008	VARISTOR
1405-001424	VR2001	VARISTOR
1405-001425	VR1001	VARISTOR
2007-007100	R1008	R-CHIP
2007-007142	R7005	R-CHIP
2007-007190	R6041,R6044	R-CHIP
2007-007315	R3031	R-CHIP
2007-007318	R5017	R-CHIP
2007-007405	R1001	R-CHIP
2007-007741	R2003,R2007,R2008	R-CHIP
2007-007741	R3020,R3027,R5004	R-CHIP
2007-007741	R5005,R5013,R5026	R-CHIP
2007-007741	R5027,R5031,R5034	R-CHIP
2007-007741	R5035,R5051,R6043	R-CHIP
2007-007741	R7004,R7007	R-CHIP
2007-007798	R5039,R5040	R-CHIP
2007-007942	R5028	R-CHIP
2007-007946	R5033	R-CHIP
2007-008044	R3014,R3015,R3016	R-CHIP
2007-008044	R3017,R3018,R3019	R-CHIP

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2007-008531	R3024,R3025,R3026	R-CHIP
2007-008531	R5018,R6005,R7000	R-CHIP
2007-008800	R6028	R-CHIP
2007-009111	R3021,R5050	R-CHIP
2007-009157	R3002,R4028,R4042	R-CHIP
2007-009157	R4043,R5008,R5019	R-CHIP
2007-009158	R5010	R-CHIP
2007-009171	R5006,R5014	R-CHIP
2007-009201	R5048,R6016,R6026	R-CHIP
2007-009201	R6027	R-CHIP
2007-009212	R4002,R4051,R5007	R-CHIP
2007-009212	R5012,R5049,R6010	R-CHIP
2007-009212	R6023	R-CHIP
2007-009314	R6006,R6018	R-CHIP
2007-009352	R3006,R3007,R4017	R-CHIP
2007-009352	R4018,R4019,R5016	R-CHIP
2007-009352	R7008	R-CHIP
2007-009408	R1007,R3003,R3004	R-CHIP
2007-009408	R3008,R3009,R3011	R-CHIP
2007-009408	R4025,R4026,R4030	R-CHIP
2007-009408	R4031,R4032,R4033	R-CHIP
2007-009408	R4034,R4035,R4036	R-CHIP
2007-009408	R4037,R4038,R4040	R-CHIP
2007-009408	R4046,R4047,R4048	R-CHIP
2007-009408	R4049,R6024	R-CHIP
2007-009410	R6031	R-CHIP
2007-009766	R3032,R6000	R-CHIP
2007-009793	R6030	R-CHIP
2007-009801	R5002,R7006	R-CHIP
2007-009805	R1000,R1006,R1009	R-CHIP
2007-009805	R1010,R1011,R1012	R-CHIP
2007-009805	R1015,R1016,R1018	R-CHIP
2007-009805	R2000	R-CHIP
2007-009920	R4004,R4005,R4012	R-CHIP
2007-009920	R4013	R-CHIP
2007-009969	R6025	R-CHIP
2007-010202	R1013,R3028,R5022	R-CHIP
2007-010202	R5023,R5024	R-CHIP
2007-011043	R4003,R4006,R4007	R-CHIP

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2007-011043	R4009,R4010	R-CHIP
2007-011532	R6037	R-CHIP
2007-011648	C1020,R7009	R-CHIP
2007-012033	R6042	R-CHIP
2007-012038	R5011	R-CHIP
2007-012068	R5025	R-CHIP
2203-000438	C3068	C-CERAMIC
2203-000489	C5143,C5144	C-CERAMIC
2203-000812	C3084,C3100	C-CERAMIC
2203-000995	C3086,C3099,C5116	C-CERAMIC
2203-001153	C3097,C5117	C-CERAMIC
2203-001239	C5126,C5158	C-CERAMIC
2203-002443	C3083	C-CERAMIC
2203-002668	VR3003	C-CERAMIC
2203-005446	C3095	C-CERAMIC
2203-005682	C1058,C2029,C3053	C-CERAMIC
2203-005682	C5004,C5111,C5112	C-CERAMIC
2203-005682	C5113,C5114,C5146	C-CERAMIC
2203-005682	C5147,C6017,C6029	C-CERAMIC
2203-005682	C6032,C6034,L1065	C-CERAMIC
2203-005719	C3093	C-CERAMIC
2203-005725	C3043,C7666	C-CERAMIC
2203-005726	C6036,C6039,C7004	C-CERAMIC
2203-005727	L2064	C-CERAMIC
2203-005729	C5142,C6000,C6007	C-CERAMIC
2203-005729	C7010	C-CERAMIC
2203-005731	C2002,C6044,C6045	C-CERAMIC
2203-005732	C1017,C1059,C5118	C-CERAMIC
2203-005732	C5120,C5168	C-CERAMIC
2203-005734	C6042,C6043	C-CERAMIC
2203-005736	C1000,C1001,C1003	C-CERAMIC
2203-005736	C1008,C1009,C1012	C-CERAMIC
2203-005736	C1013,C1014,C1015	C-CERAMIC
2203-005736	C1018,C1021,C1025	C-CERAMIC
2203-005736	C1029,C1050,C1051	C-CERAMIC
2203-005736	C1052,C1053,C1055	C-CERAMIC
2203-005736	C1068,C1074,C1078	C-CERAMIC
2203-005736	C1079,C1080,C1082	C-CERAMIC
2203-005736	C1086,C1087,C1089	C-CERAMIC

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2203-005736	C1097,C1102,C1105	C-CERAMIC
2203-005736	C1107,C1118,C1123	C-CERAMIC
2203-005736	C1128,C1149,C1158	C-CERAMIC
2203-005736	C2005,C2006,C2007	C-CERAMIC
2203-005736	C2011,C2013,C2088	C-CERAMIC
2203-005736	C2089,C2094,C2100	C-CERAMIC
2203-005736	C2104,C2109,C2110	C-CERAMIC
2203-005736	C2111,C2153,C3001	C-CERAMIC
2203-005736	C3002,C3005,C3006	C-CERAMIC
2203-005736	C3017,C3020,C3024	C-CERAMIC
2203-005736	C3094,C7663,C7665	C-CERAMIC
2203-005736	L1002,L1014,L1016	C-CERAMIC
2203-005736	L1040,L1051,L1059	C-CERAMIC
2203-005736	L1074,L1090,L1091	C-CERAMIC
2203-005736	L1097,L1114,L2080	C-CERAMIC
2203-005736	L3002,R1002	C-CERAMIC
2203-005777	C1054,C1081,C1124	C-CERAMIC
2203-005777	C1148,C1153	C-CERAMIC
2203-005779	C3046	C-CERAMIC
2203-005789	C1023,C1121,C2037	C-CERAMIC
2203-005789	C2095,L1020,L1025	C-CERAMIC
2203-005789	L1052,L1067,L1123	C-CERAMIC
2203-005792	C1006,C1024,C1099	C-CERAMIC
2203-005792	C1126,C2093,C2108	C-CERAMIC
2203-005792	C6010	C-CERAMIC
2203-005806	C1041,C1042,C1045	C-CERAMIC
2203-005806	C1084,C2090,C2091	C-CERAMIC
2203-006048	C3063	C-CERAMIC
2203-006121	C6041	C-CERAMIC
2203-006187	C1034,C1039,C1062	C-CERAMIC
2203-006187	C1096,C1098,C2038	C-CERAMIC
2203-006187	C2043,C3029	C-CERAMIC
2203-006194	C2103,C6018,C6028	C-CERAMIC
2203-006194	C6047	C-CERAMIC
2203-006305	C1127,C2092,L2019	C-CERAMIC
2203-006318	L1102,L1109	C-CERAMIC
2203-006400	C1031,C1057,C1071	C-CERAMIC
2203-006400	C2082,C3013,C3036	C-CERAMIC
2203-006400	C3055,C4009,C6060	C-CERAMIC

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2203-006400	C7076,L2082,L6011	C-CERAMIC
2203-006400	R5021	C-CERAMIC
2203-006410	L1028	C-CERAMIC
2203-006556	C1046,C1075,C1129	C-CERAMIC
2203-006556	C1132,C1135,C6033	C-CERAMIC
2203-006556	C6040	C-CERAMIC
2203-006562	C5099,C5100,C7006	C-CERAMIC
2203-006562	C7007,C7099,C7100	C-CERAMIC
2203-006562	C7101	C-CERAMIC
2203-006604	C3058	C-CERAMIC
2203-006611	C6011	C-CERAMIC
2203-006620	C7074	C-CERAMIC
2203-006642	C6022,C6025	C-CERAMIC
2203-006648	C6037	C-CERAMIC
2203-006665	C1117,C2102,L1085	C-CERAMIC
2203-006665	L2006	C-CERAMIC
2203-006668	C2086,C4099	C-CERAMIC
2203-006674	C1048	C-CERAMIC
2203-006707	C1114	C-CERAMIC
2203-006712	C7015	C-CERAMIC
2203-006839	C1065,C2035,C2080	C-CERAMIC
2203-006839	C3008,C3009,C3010	C-CERAMIC
2203-006839	C3011,C3022,C3028	C-CERAMIC
2203-006839	C3061,C3064,C3065	C-CERAMIC
2203-006839	C3066,C3069,C4010	C-CERAMIC
2203-006839	C4030,C4036,C4100	C-CERAMIC
2203-006839	C5017,C5124,C5125	C-CERAMIC
2203-006839	C5167,C6001,C6004	C-CERAMIC
2203-006839	C6005,C6014,C6016	C-CERAMIC
2203-006839	C6030,C6035,C6038	C-CERAMIC
2203-006846	C4000,C4001,C4004	C-CERAMIC
2203-006846	C4005	C-CERAMIC
2203-006872	C5000,C5049,C5052	C-CERAMIC
2203-006872	C5053,C5055,C5062	C-CERAMIC
2203-006872	C5069,C5070,C5073	C-CERAMIC
2203-006872	C5076,C5086,C5128	C-CERAMIC
2203-006872	C5130,C7008	C-CERAMIC
2203-006978	C6006,C6058	C-CERAMIC
2203-006979	C2001,C2058,C2062	C-CERAMIC

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2203-006979	C2064,C2065,C2070	C-CERAMIC
2203-006979	C2073,C2075,C2079	C-CERAMIC
2203-007194	C3054,C7003,C7013	C-CERAMIC
2203-007210	C4101,C4102,C4103	C-CERAMIC
2203-007210	C4104,C4105,C5060	C-CERAMIC
2203-007210	C5087	C-CERAMIC
2203-007271	C1134,C5050,C5097	C-CERAMIC
2203-007271	C5148,C5155	C-CERAMIC
2203-007369	C3025	C-CERAMIC
2203-007392	C5002,C5037,C5098	C-CERAMIC
2203-007393	C1161,C5005,C5014	C-CERAMIC
2203-007393	C5020,C5024,C5025	C-CERAMIC
2203-007393	C5043,C5045,C5048	C-CERAMIC
2203-007393	C5057,C5059,C5077	C-CERAMIC
2203-007393	C5139,C5141	C-CERAMIC
2203-007456	C1043,C1044,C5115	C-CERAMIC
2203-007456	C5165	C-CERAMIC
2203-007474	C4049,C4052,C4055	C-CERAMIC
2203-007781	C7042,C7207,C7213	C-CERAMIC
2203-007796	C1076,C1159,C2063	C-CERAMIC
2203-007796	C2072,C2078,C3012	C-CERAMIC
2203-007796	C3016,C3018,C3031	C-CERAMIC
2203-007796	C3039,C3070,C3071	C-CERAMIC
2203-007796	C3073,C3074,C3081	C-CERAMIC
2203-007796	C3082,C3089,C3090	C-CERAMIC
2203-007796	C3091,C4003,C4007	C-CERAMIC
2203-007796	C4013,C4014,C4017	C-CERAMIC
2203-007796	C4018,C4019,C4020	C-CERAMIC
2203-007796	C4021,C4022,C4023	C-CERAMIC
2203-007796	C4024,C4025,C4026	C-CERAMIC
2203-007796	C4027,C4028,C4029	C-CERAMIC
2203-007796	C4031,C4032,C4033	C-CERAMIC
2203-007796	C4034,C4035,C4037	C-CERAMIC
2203-007796	C4038,C4041,C4042	C-CERAMIC
2203-007796	C4043,C4044,C4045	C-CERAMIC
2203-007796	C4047,C4048,C4059	C-CERAMIC
2203-007796	C4060,C4062,C4063	C-CERAMIC
2203-007796	C4065,C4066,C4067	C-CERAMIC
2203-007796	C4068,C4072,C4073	C-CERAMIC

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5. MAIN Electrical Parts List

2203-007796	C4074,C4075,C4076	C-CERAMIC
2203-007796	C4077,C4078,C4081	C-CERAMIC
2203-007796	C4082,C4088,C4089	C-CERAMIC
2203-007796	C4090,C4091,C4093	C-CERAMIC
2203-007796	C4094,C4095,C4096	C-CERAMIC
2203-007796	C4097,C4098,C5003	C-CERAMIC
2203-007796	C5038,C5040,C5056	C-CERAMIC
2203-007796	C5061,C5063,C5065	C-CERAMIC
2203-007796	C5066,C5067,C5068	C-CERAMIC
2203-007796	C5071,C5072,C5074	C-CERAMIC
2203-007796	C5075,C5078,C5080	C-CERAMIC
2203-007796	C5081,C5082,C5083	C-CERAMIC
2203-007796	C5084,C5085,C5088	C-CERAMIC
2203-007796	C5090,C5129,C5157	C-CERAMIC
2203-007796	C6002,C6019,C6020	C-CERAMIC
2203-007796	C6021,C6063,C6070	C-CERAMIC
2203-007796	C6073,C6074,C7016	C-CERAMIC
2203-007796	C7034,C7036,C7038	C-CERAMIC
2203-007796	C7040,C7041,C7070	C-CERAMIC
2203-007796	C7072,C7095,C7096	C-CERAMIC
2203-007796	C7172,C7174,C7175	C-CERAMIC
2203-007796	C7176,C7177,C7181	C-CERAMIC
2203-007796	C7182,C7186	C-CERAMIC
2203-008094	C1070	C-CERAMIC
2203-008097	C1130,C1131,C1133	C-CERAMIC
2203-008097	C1136,C2076,C6064	C-CERAMIC
2203-008158	C5028,C5153	C-CERAMIC
2203-008242	C2004,C3000,C3003	C-CERAMIC
2203-008242	C3004,C3023,C4039	C-CERAMIC
2203-008242	C4084,C4087,C4092	C-CERAMIC
2203-008242	C5001,C5136,C5137	C-CERAMIC
2203-008242	C5138,C7017,C7030	C-CERAMIC
2203-008312	C4008,C4016,C4057	C-CERAMIC
2203-008312	C5008,C5015,C5019	C-CERAMIC
2203-008312	C5027,C5030,C5032	C-CERAMIC
2203-008312	C5039,C5044,C5047	C-CERAMIC
2203-008470	C2009,C7185	C-CERAMIC
2203-008529	C3101	C-CERAMIC
2203-008572	C5064,C5149,C5152	C-CERAMIC

5. MAIN Electrical Parts List

2203-008654	C5119,C5123	C-CERAMIC
2203-008692	C1056,C1095	C-CERAMIC
2203-008749	C5159	C-CERAMIC
2203-008860	C1077,C2014,C3015	C-CERAMIC
2203-008860	C3035,C3038,C3075	C-CERAMIC
2203-008860	C3076,C3079,C3085	C-CERAMIC
2203-008860	C5105,C5154,C6059	C-CERAMIC
2203-008860	C7032,C7033,C7035	C-CERAMIC
2203-008860	C7037,C7039,C7069	C-CERAMIC
2203-008860	C7071,C7158,C7183	C-CERAMIC
2203-008876	C3007,C3080,C5079	C-CERAMIC
2203-008876	C5133,C5134,C5135	C-CERAMIC
2203-008876	C7023,C7024,C7046	C-CERAMIC
2203-008876	C7066,C7067,C7097	C-CERAMIC
2203-008876	C7098,C7103,C7173	C-CERAMIC
2203-008876	C7184	C-CERAMIC
2203-009210	C3088,C3098	C-CERAMIC
2203-009537	C5051	C-CERAMIC
2203-009551	C1093	C-CERAMIC
2203-009618	C5150,C6066	C-CERAMIC
2203-009733	C1137,C1160,C2000	C-CERAMIC
2203-009733	C2057,C2061,C2066	C-CERAMIC
2203-009733	C2069,C2074,C3047	C-CERAMIC
2203-009733	C3077,C5007,C5010	C-CERAMIC
2203-009733	C5013,C5018,C5022	C-CERAMIC
2203-009733	C5029,C5031,C5035	C-CERAMIC
2203-009733	C5041,C5046,C7001	C-CERAMIC
2203-009733	C7005,C7011,C7012	C-CERAMIC
2203-009733	C7014,C7635	C-CERAMIC
2203-009736	C3026,C3052,C4006	C-CERAMIC
2203-009736	C4040,C4046,C4064	C-CERAMIC
2203-009736	C4083,C4086,C5006	C-CERAMIC
2203-009736	C5058,C5089,C5131	C-CERAMIC
2203-009736	C5132,C5164,C6003	C-CERAMIC
2203-009736	C6015	C-CERAMIC
2203-009858	C5151,C6061,C6075	C-CERAMIC
2203-009859	C7206,C7214	C-CERAMIC
2203-009969	C6065	C-CERAMIC
2409-001399	TA3000	C-CERAMIC

5. MAIN Electrical Parts List

2703-002858	C1083,C1085,L1026	INDUCTOR
2703-002900	C2131,L6003	INDUCTOR
2703-002901	L2063	INDUCTOR
2703-002955	C3034	INDUCTOR
2703-002958	C3027,L1004,L1077	INDUCTOR
2703-002959	C1101,L1012,L1019	INDUCTOR
2703-002959	L1036,L1039,L2081	INDUCTOR
2703-003121	L1021	INDUCTOR
2703-003476	L3001	INDUCTOR
2703-003878	L6018	INDUCTOR
2703-003921	C3042	INDUCTOR
2703-003970	L1009,L1111,L3017	INDUCTOR
2703-004000	C2026,L2067	INDUCTOR
2703-004001	L3020	INDUCTOR
2703-004012	C1002,C1140,L1003	INDUCTOR
2703-004012	L1061,L1100	INDUCTOR
2703-004013	C1010	INDUCTOR
2703-004018	C1064,L1068,L1075	INDUCTOR
2703-004018	L1086,L1087	INDUCTOR
2703-004030	L1013,L1099,L1113	INDUCTOR
2703-004032	L1108,L1115,L2050	INDUCTOR
2703-004034	C1138,C3032,L1015	INDUCTOR
2703-004034	L1032,L1062,L1118	INDUCTOR
2703-004034	L2004,L2008,L2010	INDUCTOR
2703-004034	L3000	INDUCTOR
2703-004035	C1040,C2130,L1064	INDUCTOR
2703-004035	L1096,L1103,L2051	INDUCTOR
2703-004036	C1069,C1072,C1088	INDUCTOR
2703-004036	C1162,L1031,L1034	INDUCTOR
2703-004036	L3004	INDUCTOR
2703-004037	C1073,C1092,C3048	INDUCTOR
2703-004037	L2052,L2054	INDUCTOR
2703-004038	C1144,C3049,L1017	INDUCTOR
2703-004038	L2065,L3006	INDUCTOR
2703-004171	L7000,L7003	INDUCTOR
2703-004212	L6012	INDUCTOR
2703-004259	L2016	INDUCTOR
2703-004286	L1010,L2055,L2059	INDUCTOR
2703-004287	L2057	INDUCTOR

5. MAIN Electrical Parts List

2703-004289	C1019,L1122	INDUCTOR
2703-004317	C1066,C3014	INDUCTOR
2703-004328	C1063,L1007,L1083	INDUCTOR
2703-004362	C1035	INDUCTOR
2703-004363	L1042	INDUCTOR
2703-004366	C1036,C2018,L1057	INDUCTOR
2703-004366	L1124	INDUCTOR
2703-004367	C1067,C1116,L1030	INDUCTOR
2703-004367	L1079,L1084,L1088	INDUCTOR
2703-004367	L1089,L2020,L3010	INDUCTOR
2703-004367	L6004	INDUCTOR
2703-004368	C3033,C3037,L3007	INDUCTOR
2703-004408	C2027,L1071,L2003	INDUCTOR
2703-004764	L2073	INDUCTOR
2703-004862	C1145,L1063	INDUCTOR
2703-004911	L3009	INDUCTOR
2703-004976	L2066	INDUCTOR
2703-005058	C2138	INDUCTOR
2703-005066	L1119	INDUCTOR
2703-005067	L5000,L5005,L5006	INDUCTOR
2703-005067	L5007,L5008	INDUCTOR
2703-005087	C3040	INDUCTOR
2703-005089	L1029	INDUCTOR
2703-005117	L7007,L7103	INDUCTOR
2703-005118	L7101	INDUCTOR
2703-005136	L5015	INDUCTOR
2703-005201	L5002,L5004,L5014	INDUCTOR
2703-005372	L3015,L3016	INDUCTOR
2703-005505	L6002,L7008	INDUCTOR
2703-005581	L5003	INDUCTOR
2801-005393	OSC5000	CRYSTAL
2805-001118	TCX2000	OSCILLATOR
2901-001690	C4011,C4015,C4050	FILTER-EMI
2901-001690	C4054,C4056,C4058	FILTER-EMI
2901-001690	C4070	FILTER-EMI
2901-001798	F7008,F7009,F7012	FILTER-EMI
2901-001798	F7013,F7014	FILTER-EMI
2904-002143	F1005	SAFFB2G65AA0F0A
2904-002201	F2006	SAFFB722MAA0F3K

5. MAIN Electrical Parts List

2904-002211	F2001	FILTER
2904-002256	F1010	FILTER
2904-002339	F2003	FILTER
2904-002345	F1009	FILTER
2904-002355	U3018	FILTER
2904-002381	F3000	FILTER
2910-000364	F1007	FILTER
2910-000390	F1004	FILTER
2910-000402	F1006	FILTER
2911-000430	U2003	FILTER
2911-000446	U1001	D5339
3003-001232	MIC6000,MIC6001	MIC-CONDENSOR
3301-001885	L6013,L6016	CORE-FERRITE BEAD
3301-002078	L6007,L6009,L6014	CORE-FERRITE BEAD
3301-002078	L6015,L6017	CORE-FERRITE BEAD
3301-002085	L6000,L6001	CORE-FERRITE BEAD
3301-002122	L1120,L1121,L2000	CORE-FERRITE BEAD
3301-002122	L6005,L6006	CORE-FERRITE BEAD
3301-002223	L7001,L7002,L7005	CORE-FERRITE BEAD
3301-002236	L3011,L3012,L6008	CORE-FERRITE BEAD
3301-002236	L6010,L6019,L6020	CORE-FERRITE BEAD
3301-002236	R7003	CORE-FERRITE BEAD
3301-002237	L1000,L1127,L2002	CORE-FERRITE BEAD
3301-002237	L2079,L3008	CORE-FERRITE BEAD
3301-002238	L2001,L2040	CORE-FERRITE BEAD
3301-002239	L1008,L1041,L1106	CORE-FERRITE BEAD
3301-002243	L2038,L2039	CORE-FERRITE BEAD
3301-002286	L3013,L3014	CORE-FERRITE BEAD
3301-002312	L2033,L2037,L2043	CORE-FERRITE BEAD
3301-002312	L2045,L7004,L7009	CORE-FERRITE BEAD
3301-002312	L7010	CORE-FERRITE BEAD
3301-002331	L5013,L5016	CORE-FERRITE BEAD
3705-001708	RFS1000,RFS1001	CONNECTOR-COAXIAL
3709-001883	SIM6001	CONNECTOR-CARD EDGE
3709-001892	SIM6000	CONNECTOR-CARD EDGE
3711-008508	HDC7000	AXE834124AW1
3711-008593	HDC7001	CONNECTOR-HEADER
3711-008716	HEA7002	CONNECTOR-HEADER
3711-008824	HDC3000,HDC3001	CONNECTOR-HEADER

5. MAIN Electrical Parts List

3711-008847	HDC5000	CONNECTOR-HEADER
3711-008997	HDC6000	CONNECTOR-HEADER
3712-001604	ANT1002,ANT1006	CONNECTOR
3712-001604	ANT2003,ANT2007	CONNECTOR
3712-001604	ANT2012,ANT2013	CONNECTOR
3712-001604	ANT3002,ANT3003	CONNECTOR
3712-001604	ANT3004,ANT3005	CONNECTOR
3712-001604	ANT6000,ANT6001	CONNECTOR
3712-001621	ANT5000,ANT5004	CONNECTOR
3712-001621	ANT6002,ANT6003	CONNECTOR
3712-001626	ANT1007,ANT3006	CONNECTOR
3712-001626	ANT5002,ANT5003	CONNECTOR
3712-001634	ANT5001,ANT5005	CONNECTOR
3712-001634	ANT5006,ANT5007	CONNECTOR
3712-001666	ANT1000,ANT1004	CONNECTOR
3712-001666	ANT2000,ANT2001	CONNECTOR
3712-001666	ANT2004,ANT2005	CONNECTOR
3712-001666	ANT2008,ANT2009	CONNECTOR
3712-001666	ANT2010,ANT2011	CONNECTOR
3712-001666	ANT2015,ANT3000	CONNECTOR
3712-001731	ANT1001,ANT1003	CONNECTOR
3712-001731	ANT3007	CONNECTOR
3722-004110	IFC5000	JACK-PHONE
4709-002284	F3001	RF-MODULE
4709-002387	F1000	RF-MODULE
4709-002464	F2000	RF-MODULE
4709-002589	CPL1000,CPL1001	RF-MODULE
GH61-08265A	SUS6001	SUS
GH61-12118A	SUS6000	SUS
GH61-12423A	SUS6002	SUS
GH62-00042A	GA6000	JSM-TSL-2-2-1.5BK
GH63-12632A	SC6008	Gasket
GH63-12874A	SC6002	Shield can
GH63-13321A	SC6003	Shield can
GH63-13700A	SC6004	Shield can
GH63-13704A	SC6001	Shield can
GH63-14237A	SC6011	Shield can
GH63-14915A	SC6007	Shield can
GH63-14916A	SC6006	Shield can

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5. MAIN Electrical Parts List

GH63-14917A	SC6005	Shield can
1107-002552	UME5000	Memory
rf-AP_TAPE	SC6004SP	Tape
rf-RF_TAPE	SC6002SP	Tape

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

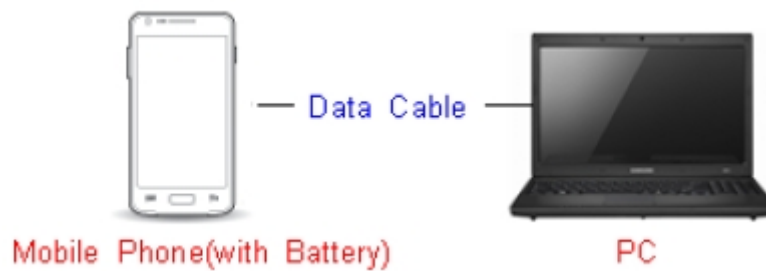
6. Level 1 Repair

6-1. S/W Download

6-1-1. Prepare for S/W Downloading

- Installation program: Downloader Program ([Odin3 v3.12.10.exe](#))
- Mobile Phone
- Data Cable
- Mobile device specific S/W: Binary files

※ Settings

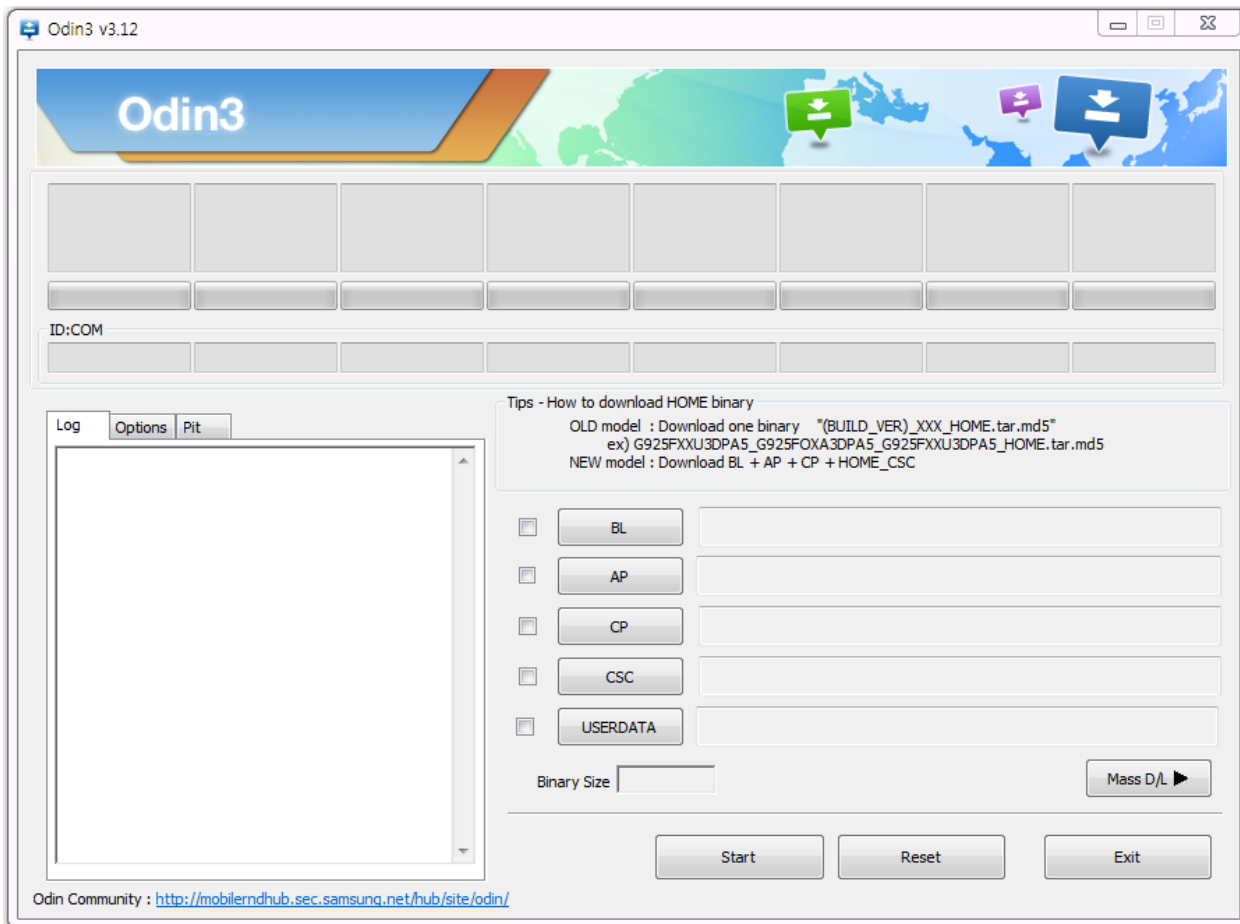


Data Cable : [GH39-01886A](#)

6. Level 1 Repair

6-1-2. S/W Installation Program (Downloader program)

- Open up the S/W Installation Program by executing the "**Odin3 v3.12.10.exe**"

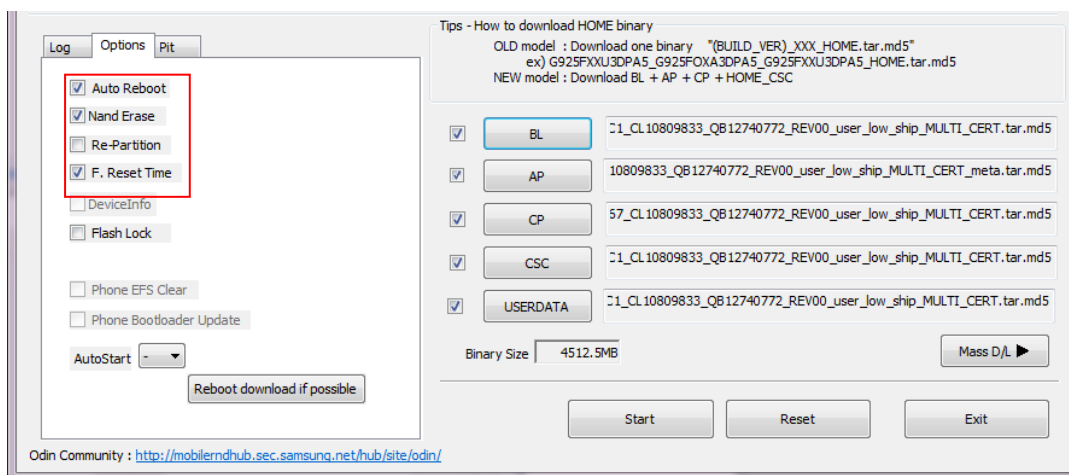
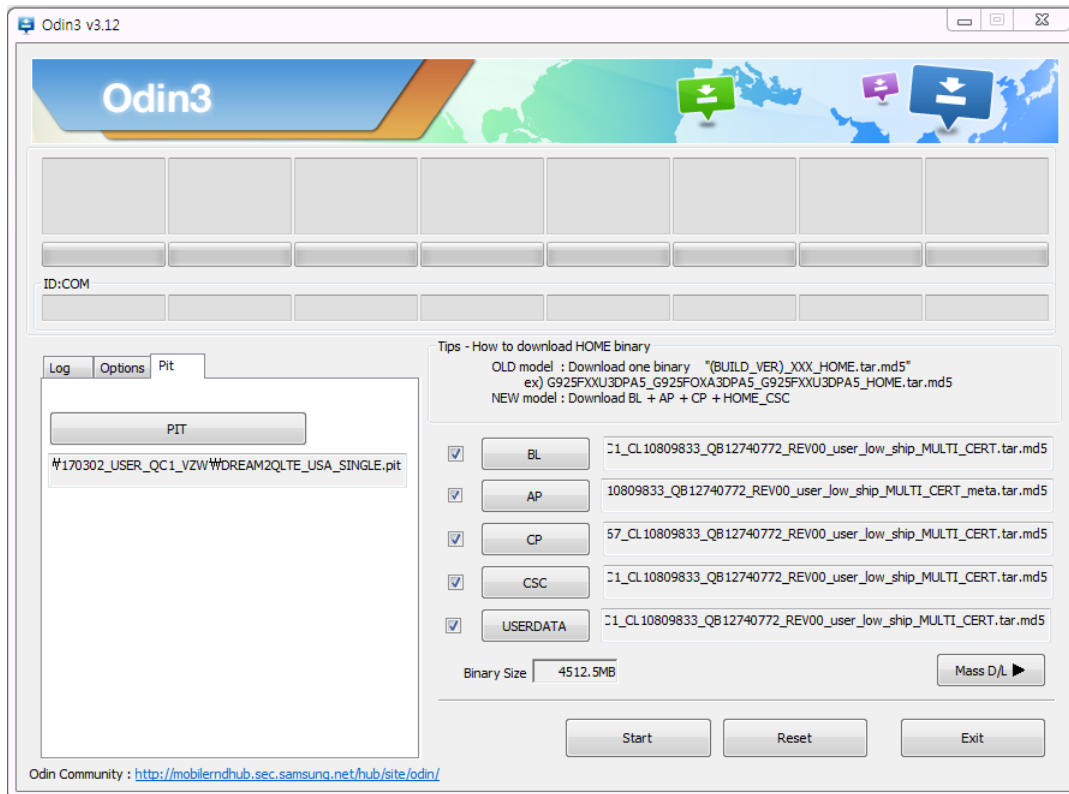


6. Level 1 Repair

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

- Check Auto Reboot, F. Reset Time, Nand Erase
- Check PIT
- Check BOOTLOADER, PDA, PHONE, CSC and USERDATA Files

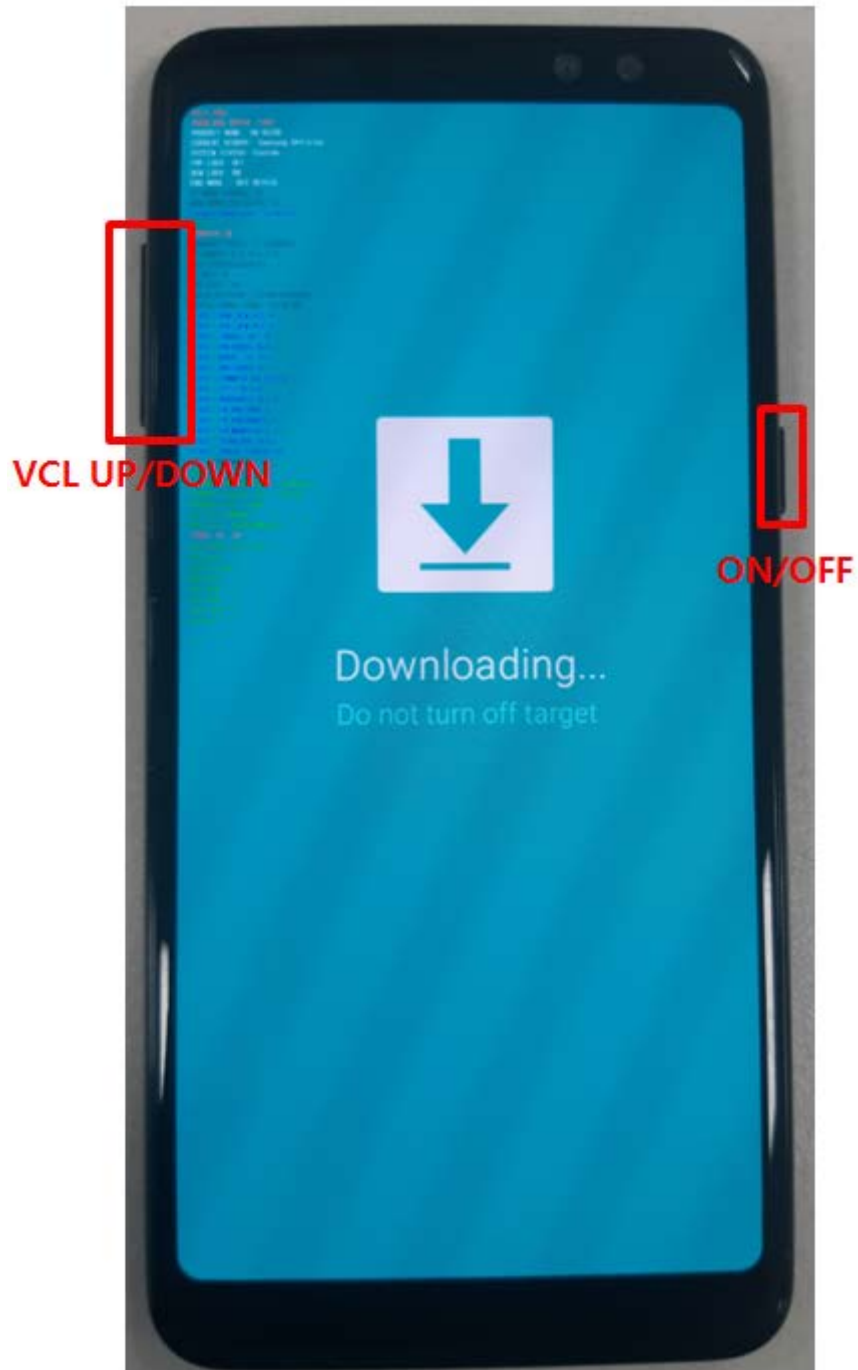
* Note : "Odin v3.12.10 or above" checks MD5 checksum just after file selection.



6. Level 1 Repair

2. Enter into Download Mode

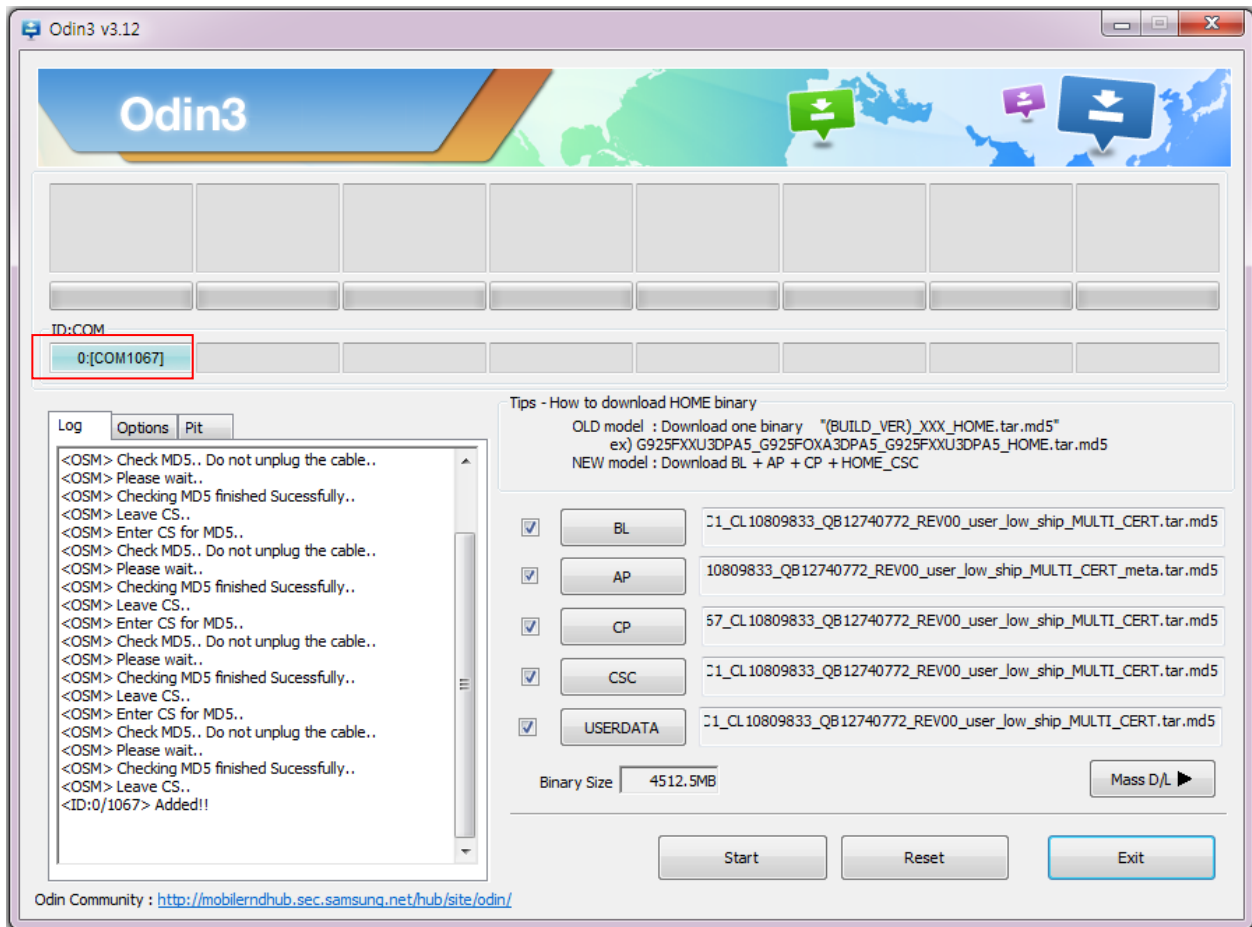
- Enter into Download Mode by pressing Volume UP/Down button and ON/OFF Button simultaneously followed by pressing Volume up button as a direction of the phone.



6. Level 1 Repair

3. Connect the device to PC via Data Cable.

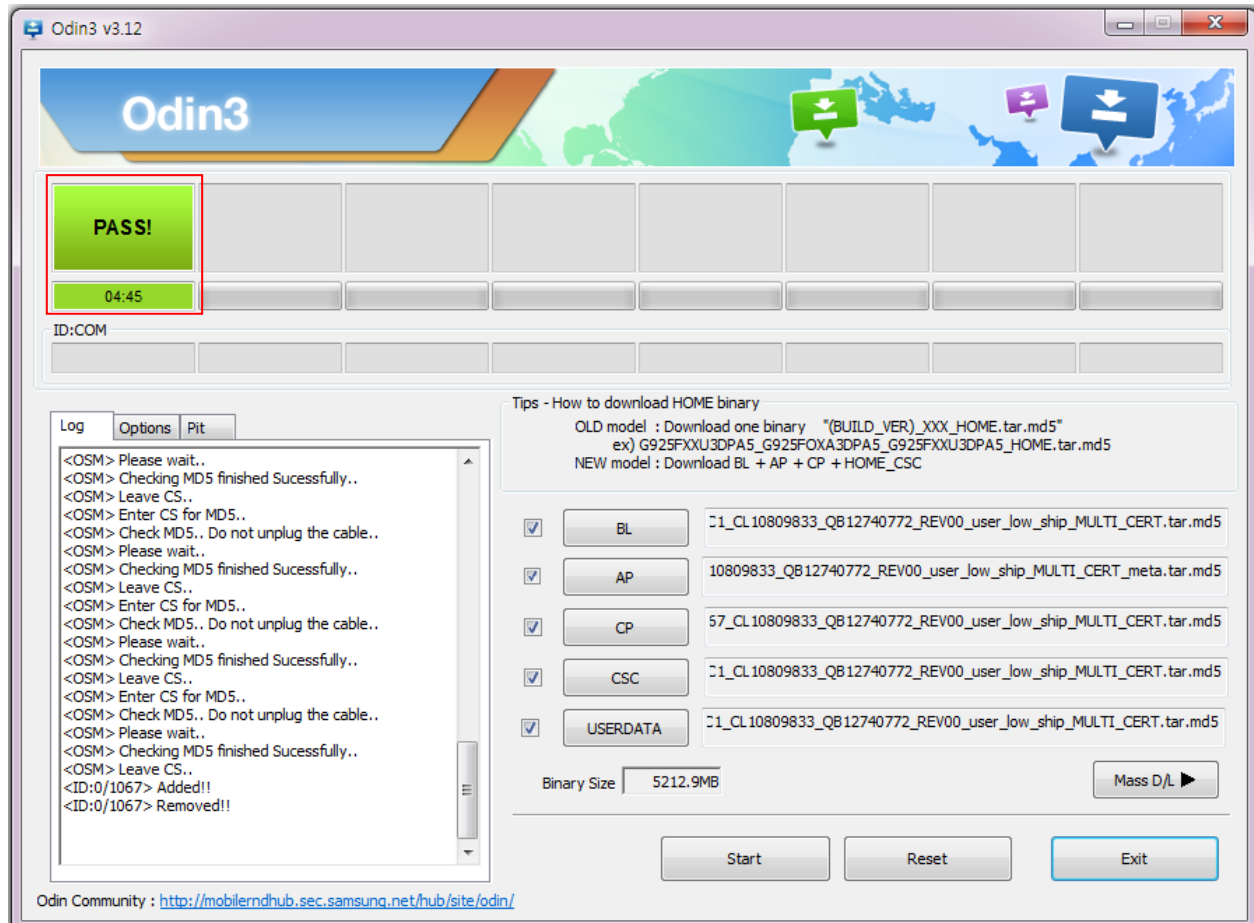
Make sure that the one of communication ports [ID:COM] box is highlighted in sky blue.
The device is now connected with the PC and ready to download the binary files in it.



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.

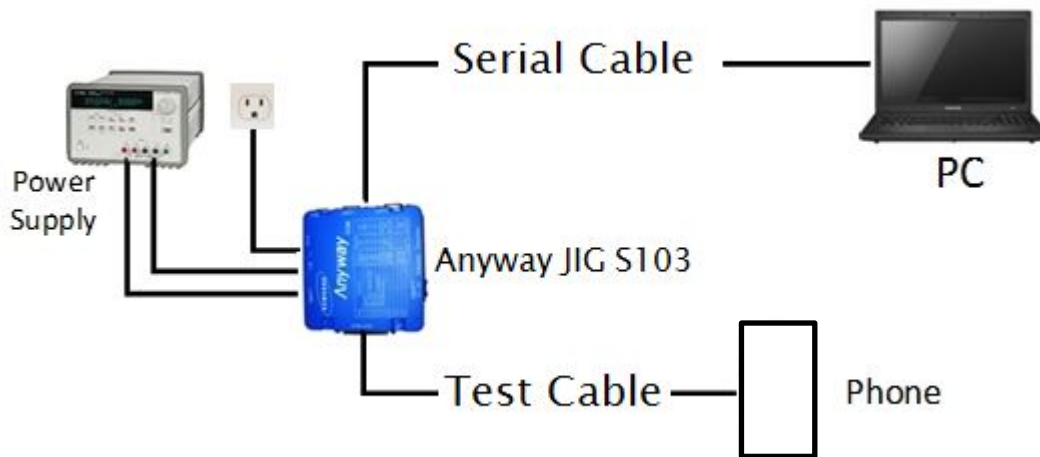
6. Level 1 Repair

6-2. IMEI writing




6-2-1. 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_3.1.281.0_r00405.CAB or higher -Uploaded on HHPsvc Notice 2. Make ‘ModelName’ folder at the same position with launcher & Runtime file. <div> DASEUL_IMEI_ALL_Runtime_3.1.281.0_r00405.CAB  DASEUL_Launcher_v4.0.0.exe  SM-G955U_VZW(SIM)_IMEI_Ver_3.1.278.2.CAB</div>
④ Model File	Copy Model File under the ‘Model Name’ folder

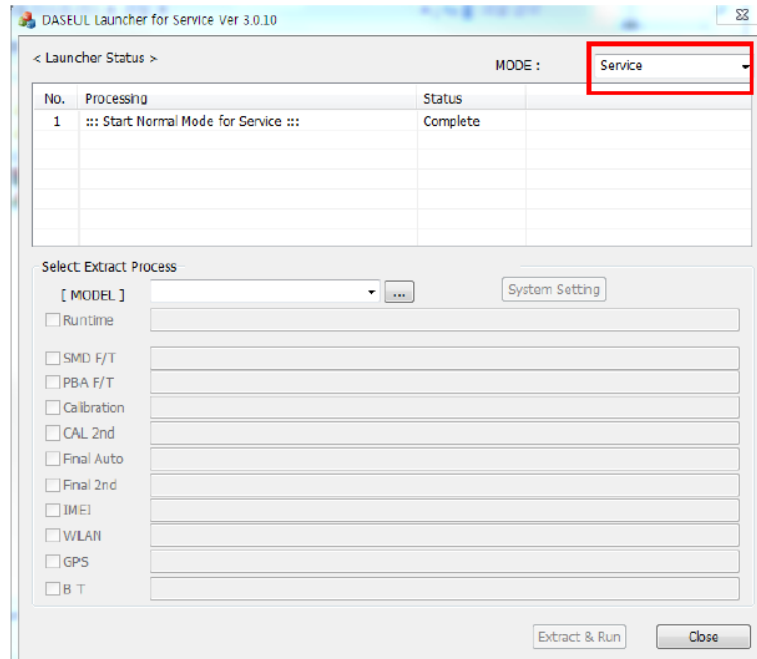
6. Level 1 Repair

6-2-2. IMEI writing Process

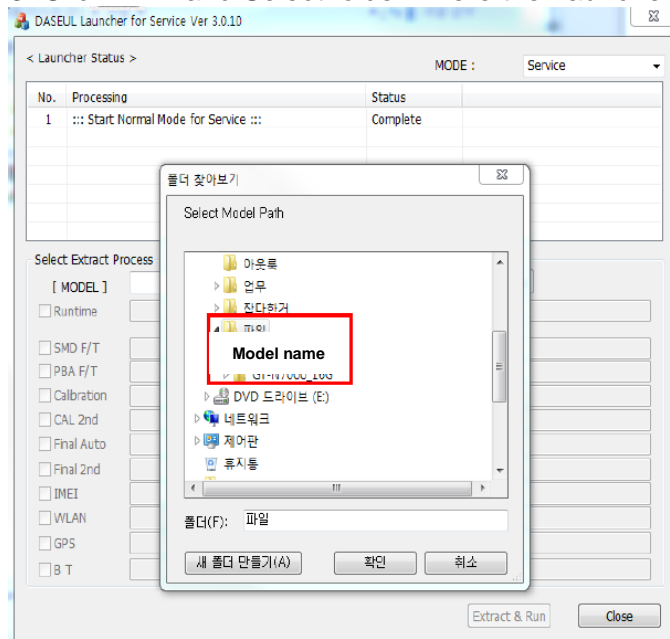
1. Run DASEUL_SVC_Launcher_v3.0.12.exe

 DASEUL_SVC_Launcher_v3.0.12.exe

2. Select Service Mode

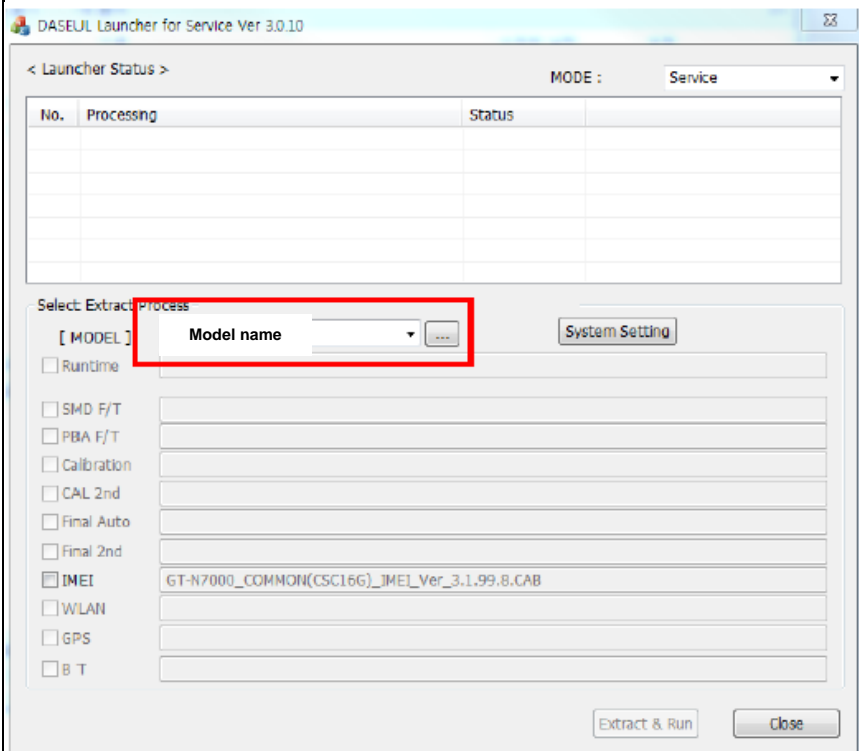


3. Click  and Select folder where the Launcher exists



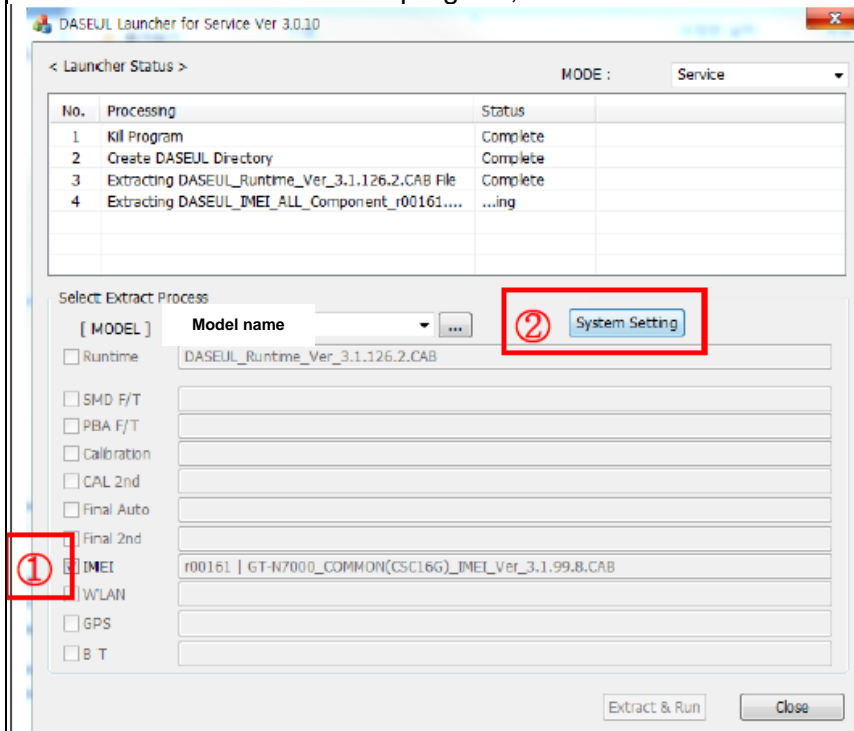
6. Level 1 Repair

4. Select Model



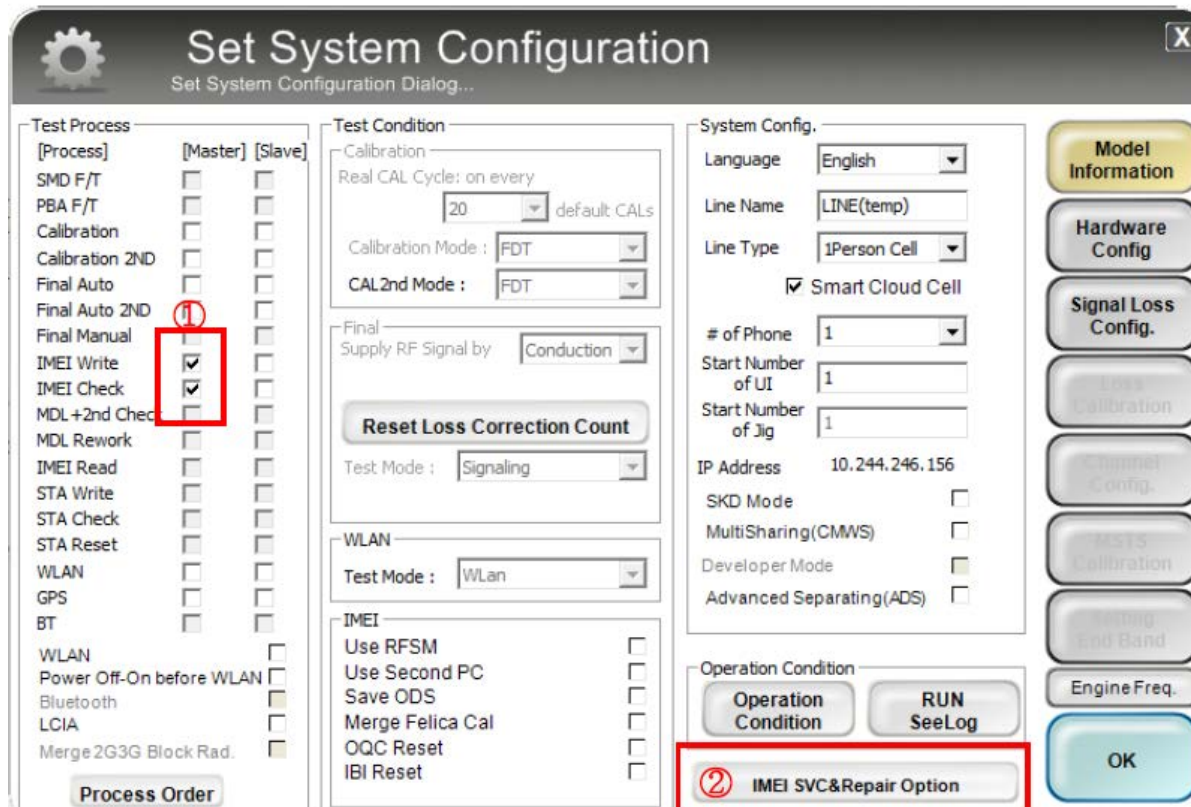
5. Check IMEI and click System Setting

※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' (a list of checkboxes for various tests), 'Test Condition' (fields for calibration and RF signal), 'System Config.' (fields for language, line name, line type, etc.), and 'Operation Condition' (buttons for 'Operation Condition' and 'RUN SeeLog'). A red box highlights the 'IMEI Write' and 'IMEI Check' checkboxes in the 'Test Process' section, with a circled '1' next to them. Another red box highlights the 'IMEI SVC&Repair Option' button in the 'Operation Condition' section, with a circled '2' next to it.

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

Test Condition

Calibration

Real CAL Cycle: on every 20 default CALs

Calibration Mode: FDT

CAL2nd Mode: FDT

Final

Supply RF Signal by: Conduction

Reset Loss Correction Count

Test Mode: Signaling

WLAN

Test Mode: WLAN

IMEI

Use RFSM ☐

Use Second PC ☐

Save ODS ☐

Merge Felica Cal ☐

OQC Reset ☐

IBI Reset ☐

System Config.

Language: English

Line Name: LINE(temp)

Line Type: 1Person Cell

☒ Smart Cloud Cell

of Phone: 1

Start Number of UI: 1

Start Number of Jig: 1

IP Address: 10.244.246.156

SKD Mode ☐

MultiSharing(CMWS) ☐

Developer Mode ☐

Advanced Separating(ADS) ☐

Operation Condition

Operation Condition

IMEI SVC&Repair Option

Model Information

Hardware Config

Signal Loss Config.

Loss Calibration

Channel Config.

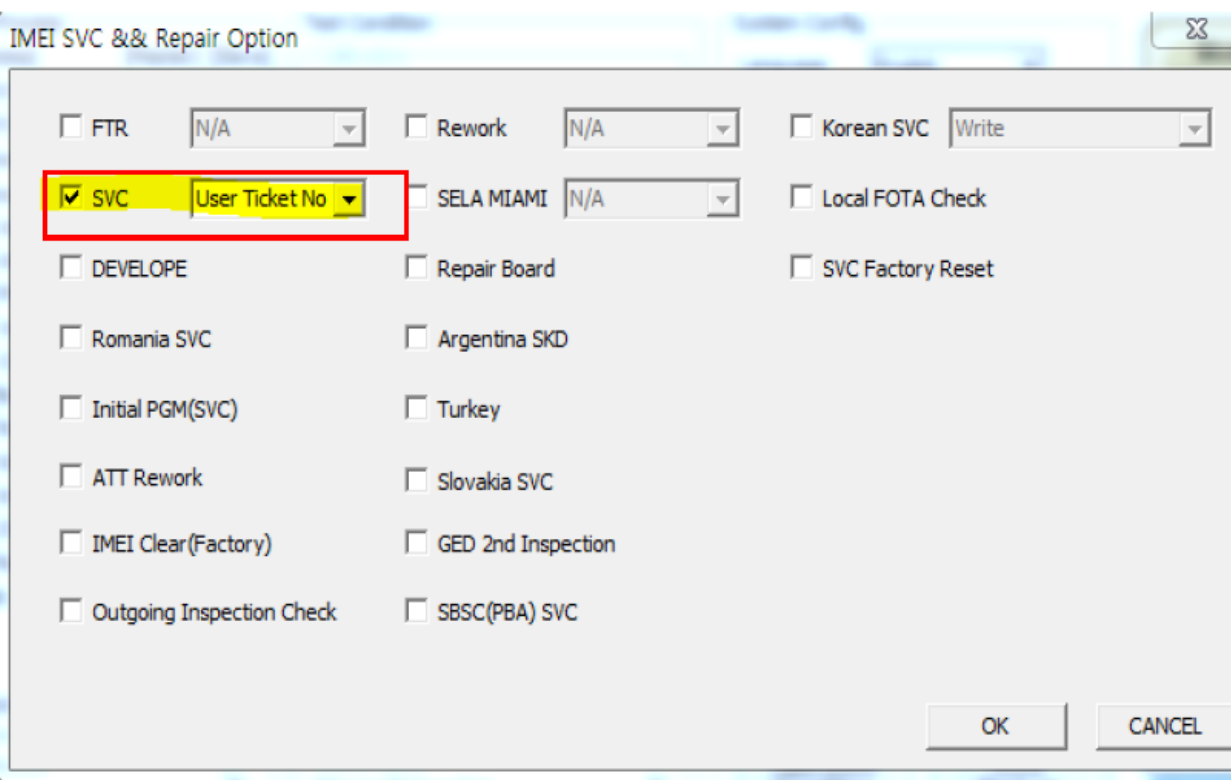
MSIS Calibration

Setting End Band

Engine Freq.

OK

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



The 'IMEI SVC && Repair Option' dialog box is shown. It has a title bar with a close button. The main area contains several checkboxes and dropdown menus. A red box highlights the 'SVC' checkbox and the 'User Ticket No' dropdown menu. 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

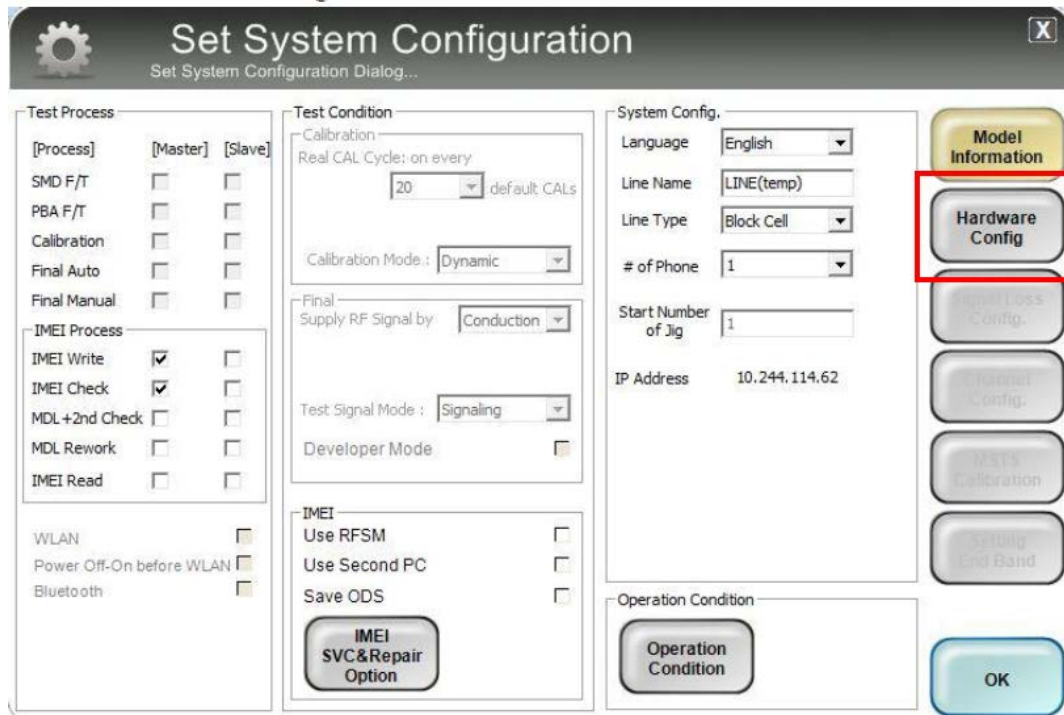
☐ IMEI Clear(Factory) ☐ GED 2nd Inspection

☐ Outgoing Inspection Check ☐ SBSC(PBA) SVC

OK CANCEL

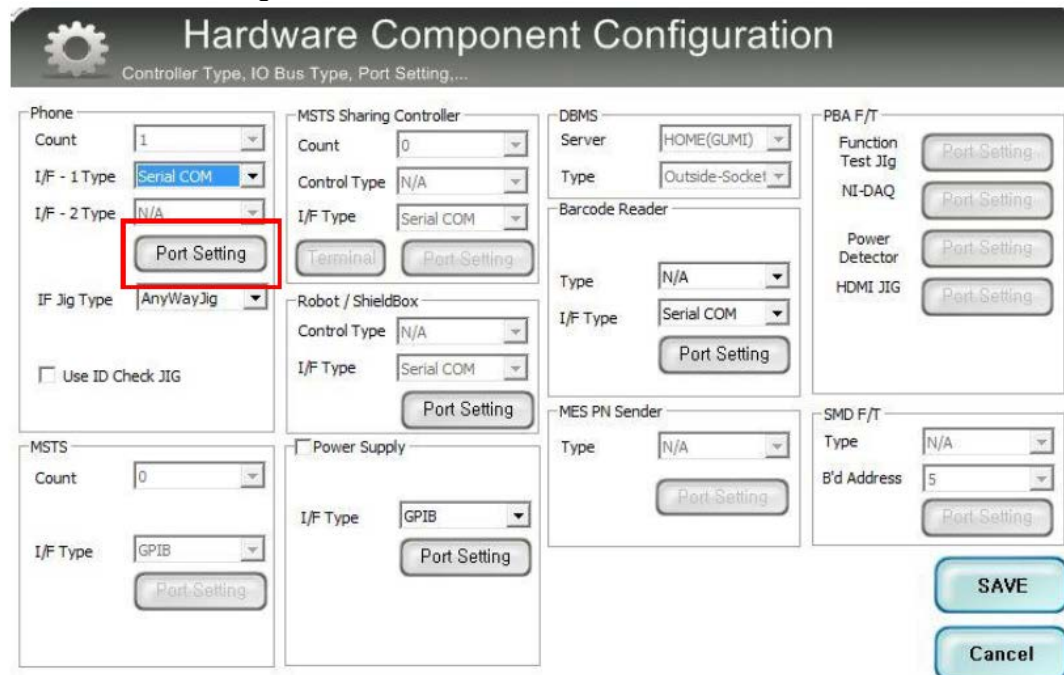
6. Level 1 Repair

8. Click 'Hardware Config'



The 'Set System Configuration' dialog box is shown. It has a title bar with a gear icon and a close button. The main area is divided into several sections: 'Test Process' with checkboxes for [Process], [Master], and [Slave]; 'Test Condition' with a 'Calibration' section (Real CAL Cycle: on every 20 default CALs, Calibration Mode: Dynamic) and a 'Final' section (Supply RF Signal by: Conduction, Test Signal Mode: Signaling, Developer Mode); '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 side, there is a vertical stack of buttons: 'Model Information', 'Hardware Config' (highlighted with a red box), 'Signal Loss Config.', 'Channel Config.', 'MATS Calibration', and 'Setting End Band'. At the bottom right is an 'OK' button.

9. Click 'Port Setting'



The 'Hardware Component Configuration' dialog box is shown. It has a title bar with a gear icon and a subtitle 'Controller Type, IO Bus Type, Port Setting,...'. The main area 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) and I/F Type (Serial COM); 'MSTS' with fields for Count (0) and I/F Type (GPIOB); 'Power Supply' with fields for I/F Type (GPIOB); 'PBA F/T' with fields for Function Test Jig, NI-DAQ, Power Detector, and HDMI JIG; 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 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

Operation Condition

Model Information

Hardware Config

Super L06s Config.

Channel Config.

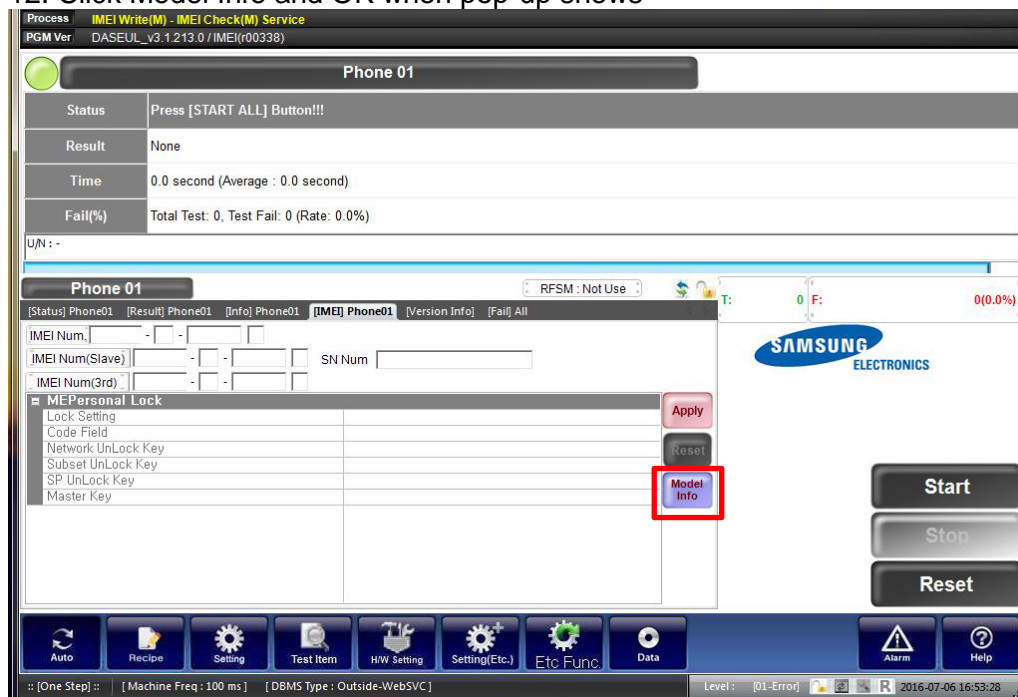
Factory Calibration

Setting End Band

OK

6. Level 1 Repair

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



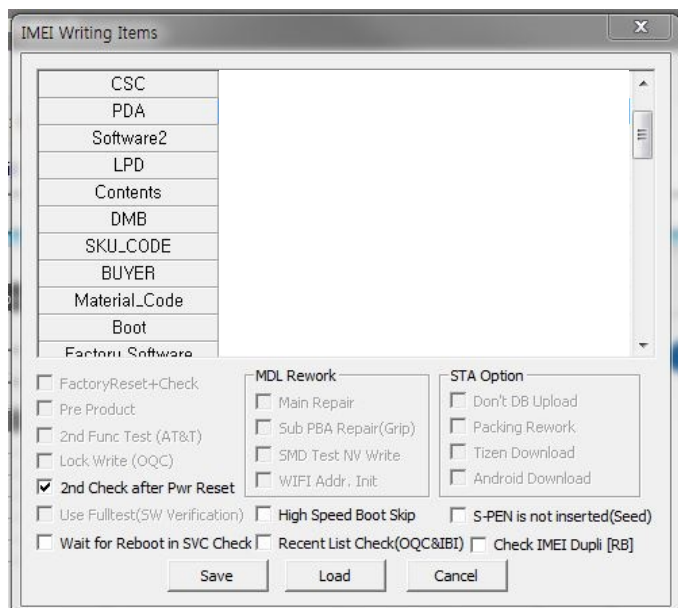
13. Click OK



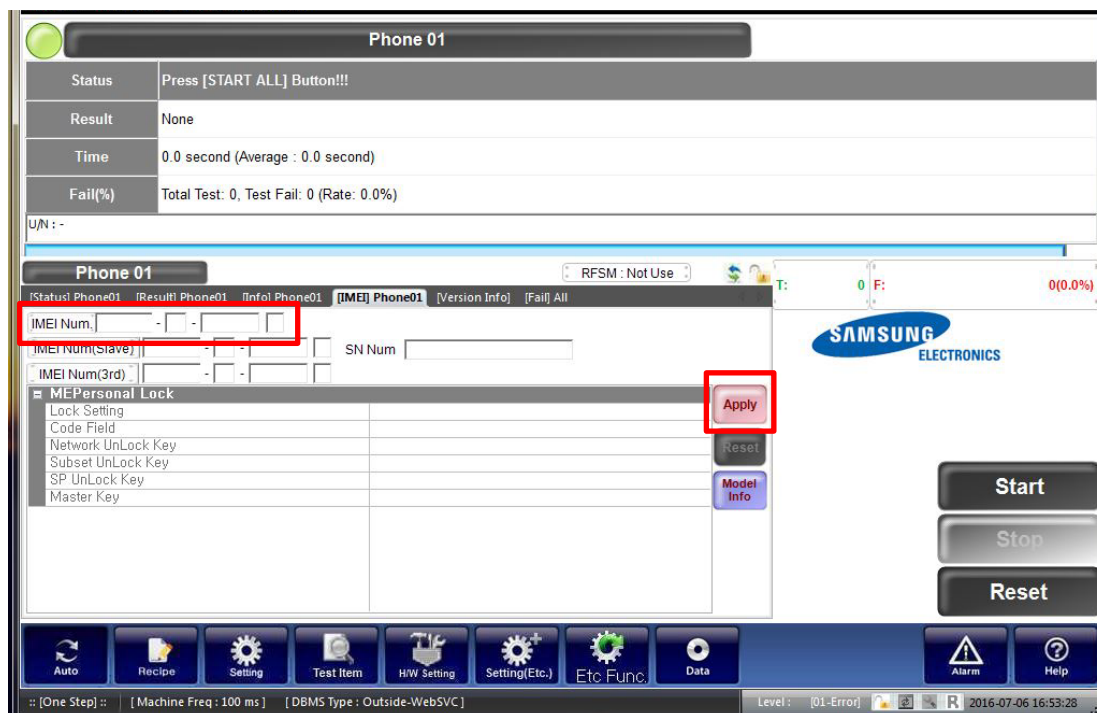
6. Level 1 Repair

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

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

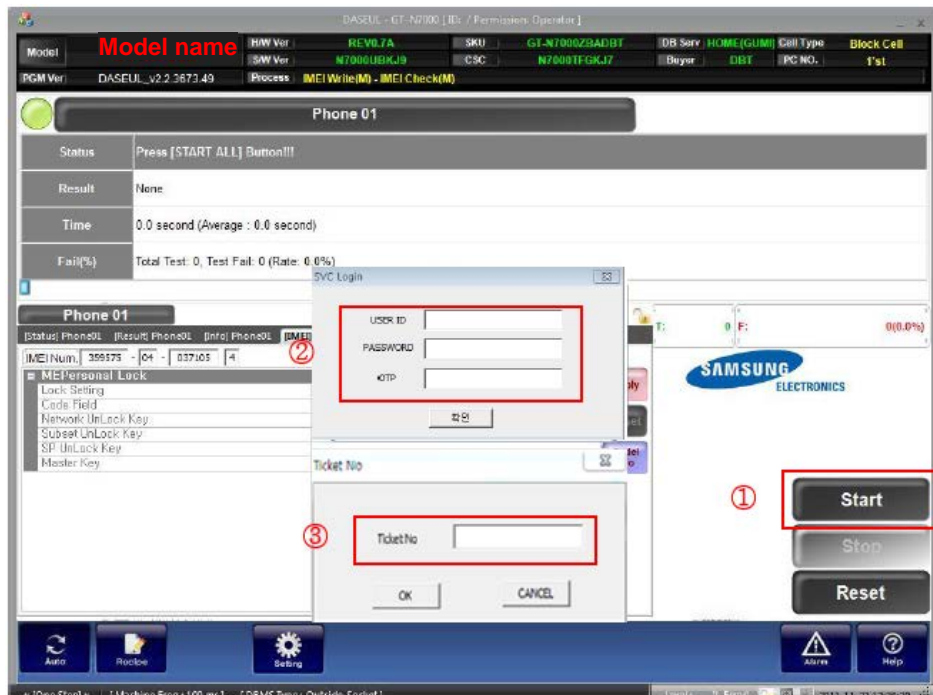


15. Input IMEI Number and click Apply



6. Level 1 Repair

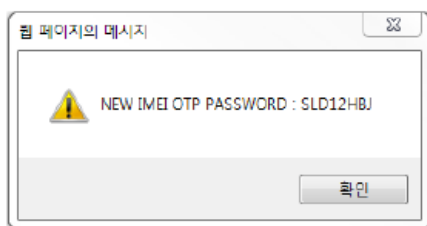
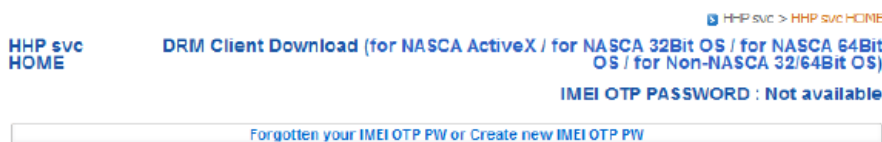
16. ① Click Start → ② Input IMEI writing ID and Password & OTP → ③ Input Ticket No



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

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

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

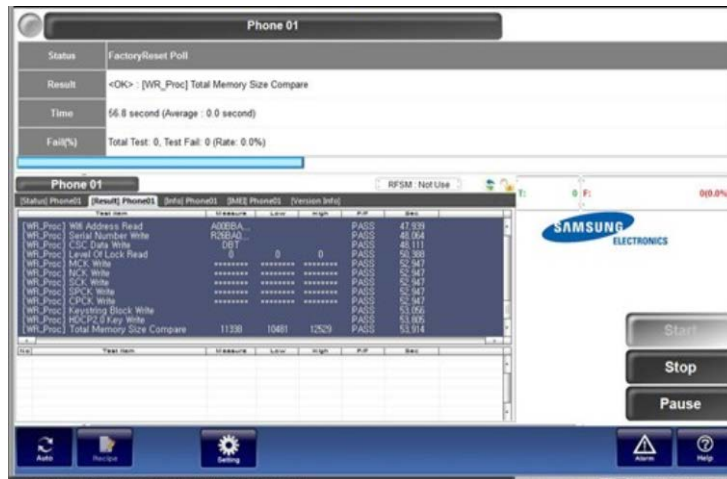


6. Level 1 Repair

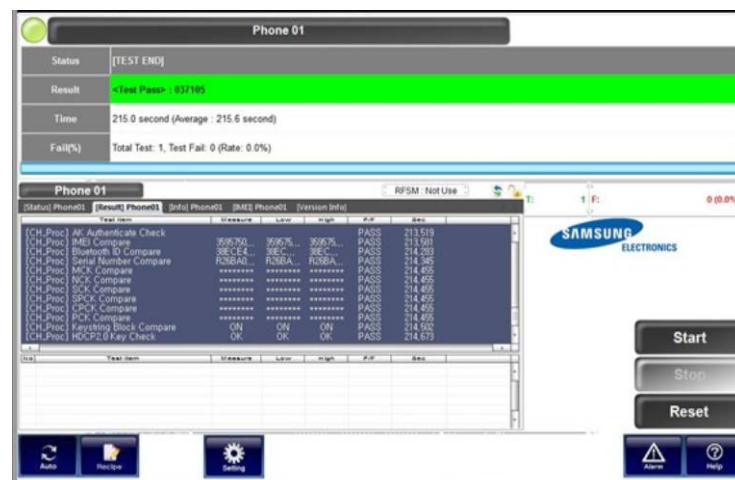
17. Connect the phone to Anyway JIG

※ 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



6. Level 1 Repair







6-3. RF Calibration

6-3-1. Required items in order to calibrate RF

- Installation program: RF Calibration Program
 - Daseul_Launcher_vx.x.xx.exe
 - Daseul_CAL_ALL_Runtime_x.x.xxx.x.CAB
 - Model File
- : **Model Name_OPEN_CALIBRATION_Ver_3.1.316.6.CAB**
- ※ **It is required to use the latest program.**

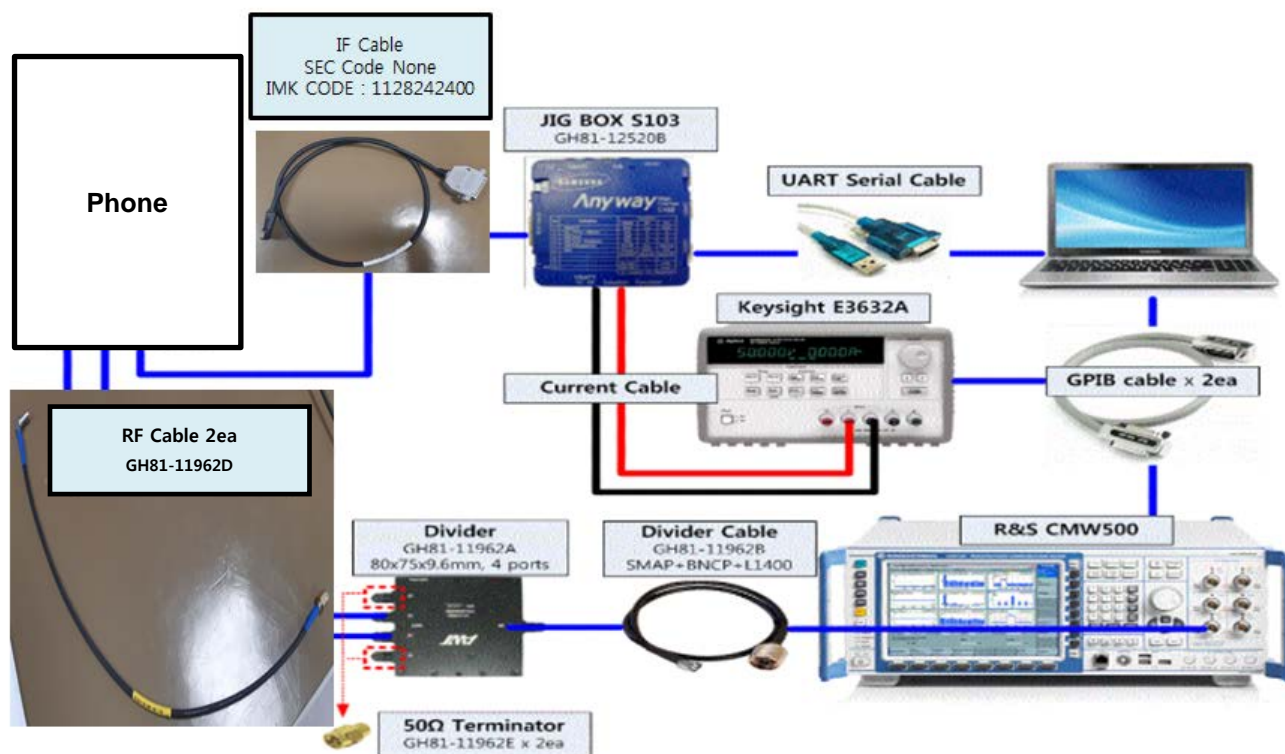
- Mobile Phone
- R&S CMW500
- E3632A Power Supply
- GPIB Cable (2ea)
- JIG BOX (S103)
- Adapter
- UART Serial Cable
- Adapter
- IF Cable (GH81-11962W)

- **Table of test cables**

IF Cable	GH81-10631A	GH81-11962W	GH81-11171A	
	11 pin	7 pin (New)	7 pin (Old)	
RF Cable (Manual)	GH81-11962D	GH81-11962D	GH81-11962C	GH81-11962F
	1.35T, LONG BNCP 	1.35T, short (2EA) SMAP 	1.6T, Short SMAP 	1.6T, Long BNCP 
4 Port Divider	GH81-11962A	GH81-11962B	GH81-11962E	
	Use 	Divider Cable 	50Ω terminator (2EA) 	

6. Level 1 Repair

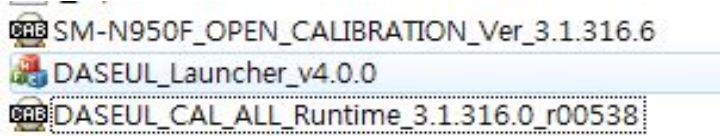
❖ Setting



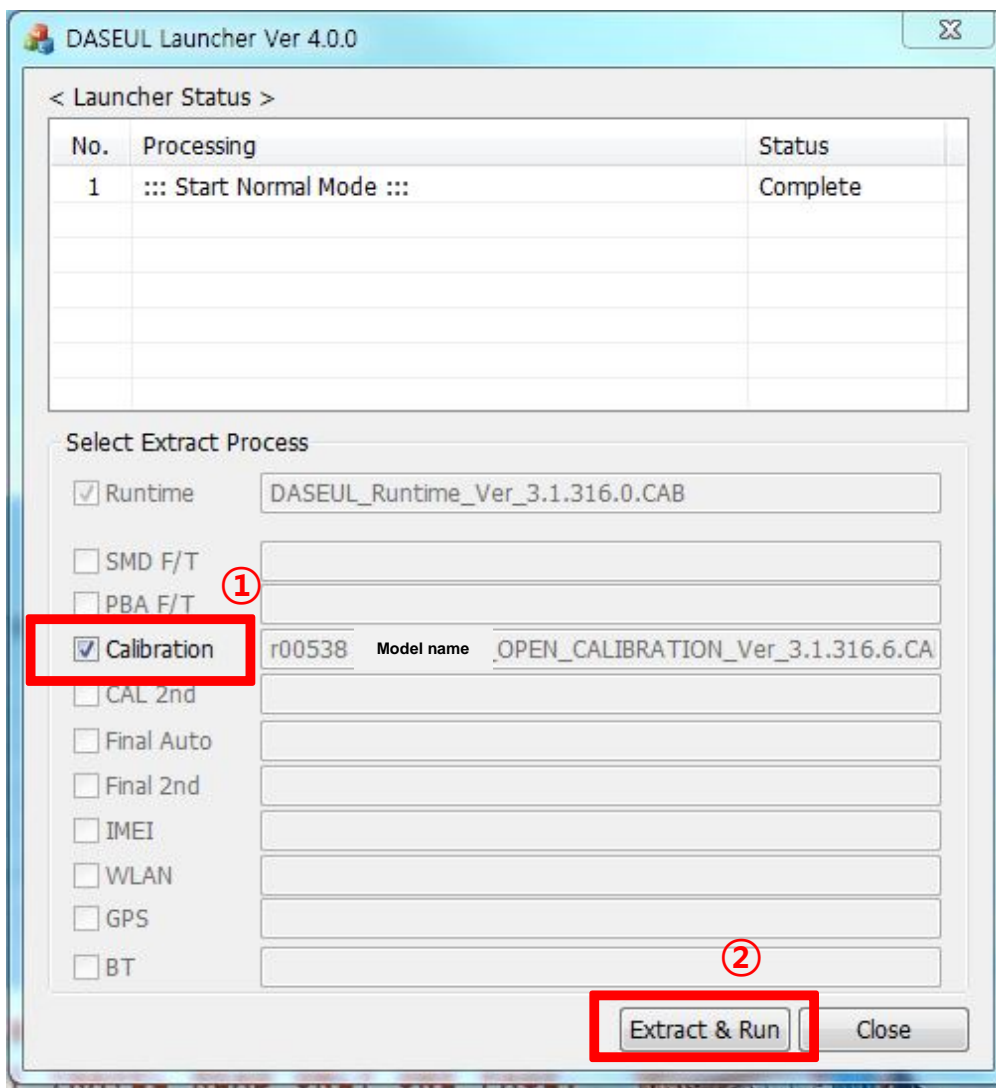
6. Level 1 Repair

6-3-2. RF Calibration Program

1. Run the RF Calibration Program Launcher, '[DASEUL_Launcher_vx.x.xx.exe](#)'.

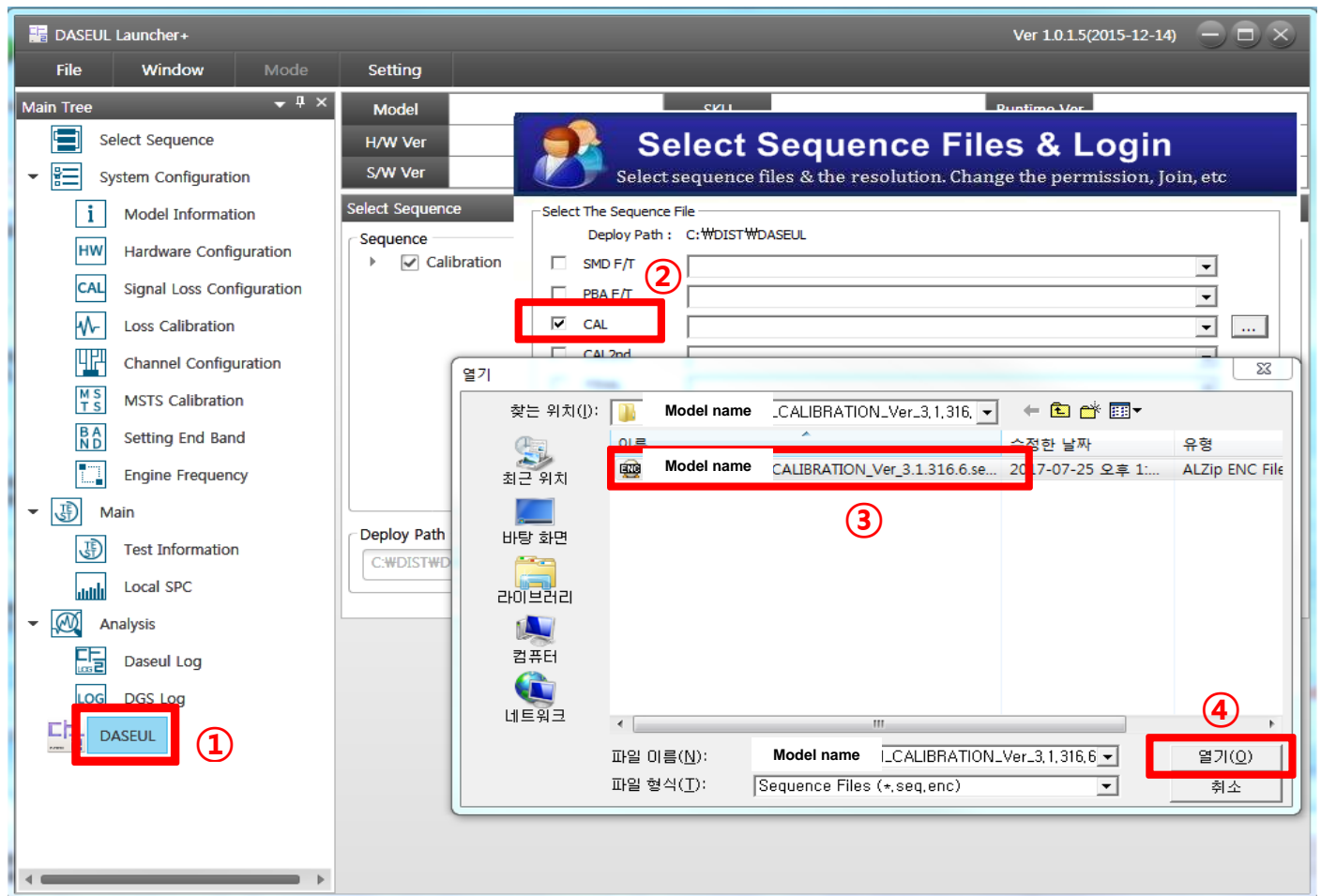


2. Check the '[Calibration](#)' option and Click '[Extract & Run](#)'.



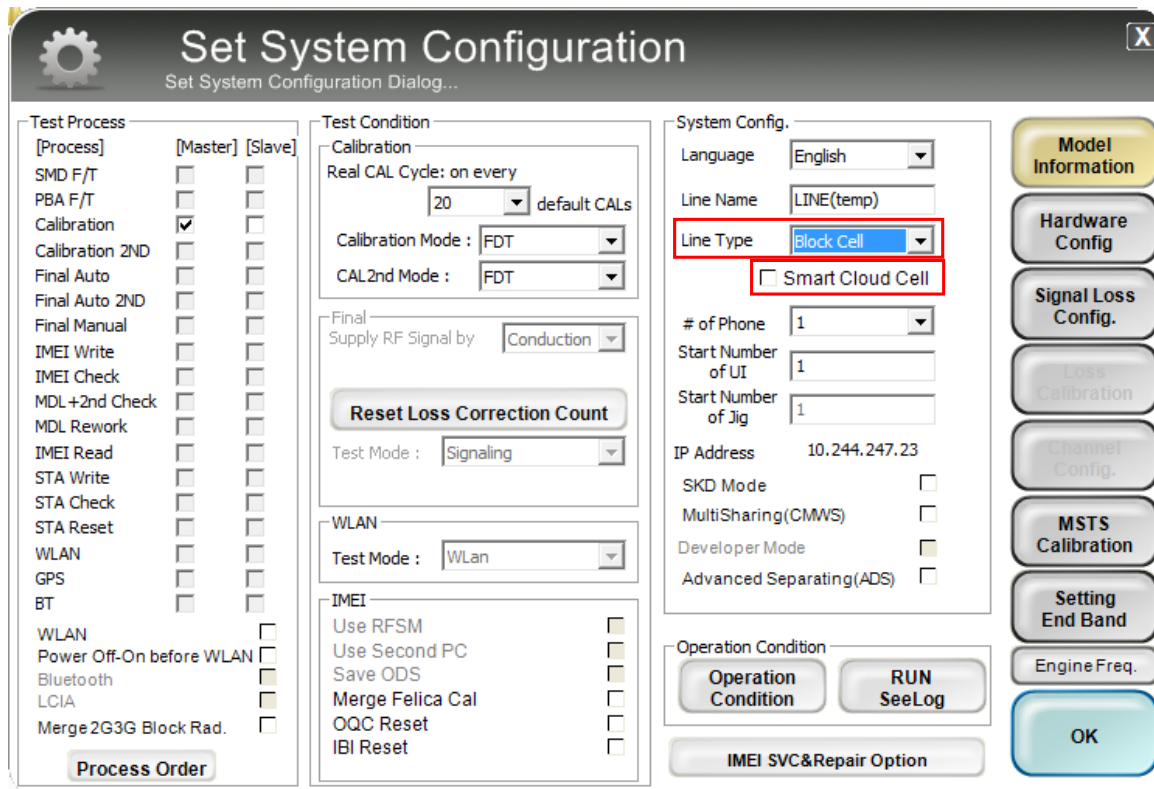
6. Level 1 Repair

3. Check the 'CAL' and open the [model file](#), then select 'Start' button. [SM-N950F]



6. Level 1 Repair

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

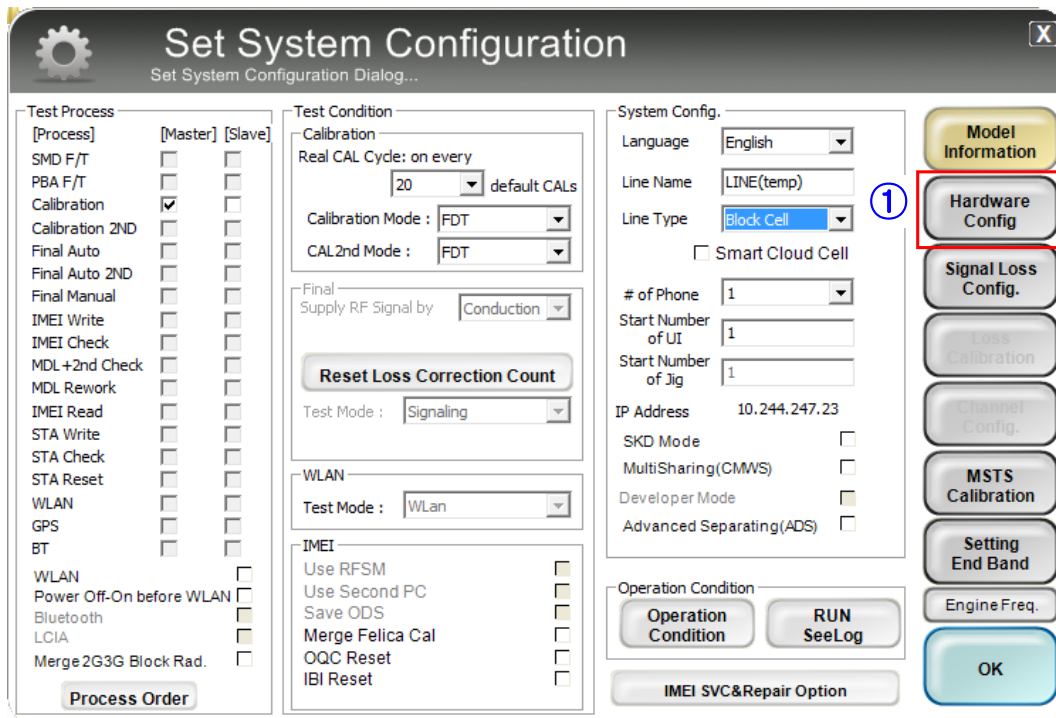


The image shows a 'Set System Configuration' dialog box with a title bar and a close button (X). The dialog is divided into several sections:

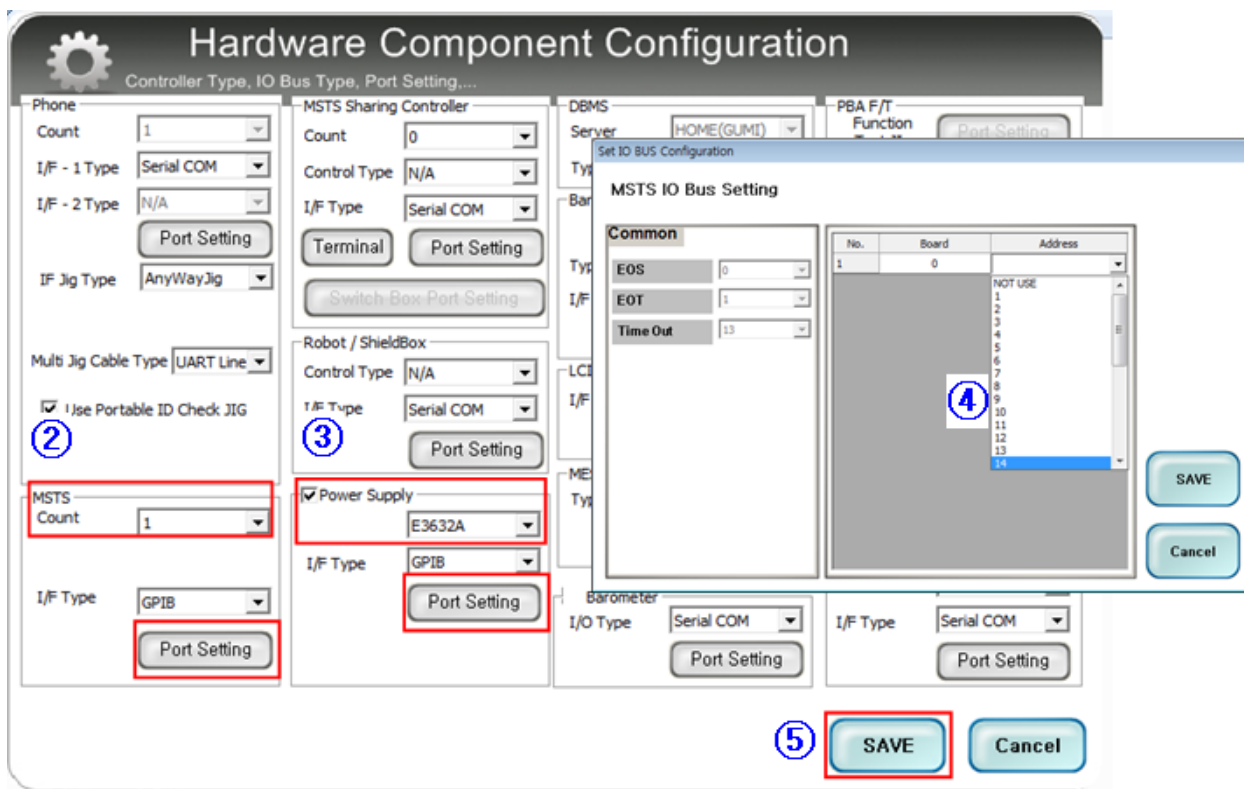
- Test Process:** A list of test processes with checkboxes for [Process], [Master], and [Slave]. The 'Calibration' process is checked under [Process].
- Test Condition:** Contains settings for Calibration (Real CAL Cycle: on every 20 default CALs, Calibration Mode: FDT, CAL2nd Mode: FDT), Final (Supply RF Signal by: Conduction), and WLAN (Test Mode: WLAN). There is a 'Reset Loss Correction Count' button and a 'Test Mode' dropdown set to 'Signaling'.
- System Config.:** Contains settings for Language (English), Line Name (LINE(temp)), Line Type (Block Cell), and Smart Cloud Cell (unchecked). It also includes fields for # of Phone (1), Start Number of UI (1), Start Number of Jig (1), IP Address (10.244.247.23), and checkboxes for SKD Mode, MultiSharing(CMWS), Developer Mode, and Advanced Separating(ADS).
- Operation Condition:** Contains buttons for 'Operation Condition' and 'RUN SeeLog', and a section for 'IMEI SVC&Repair Option'.
- Right Sidebar:** A vertical stack of buttons: Model Information, Hardware Config, Signal Loss Config., Loss Calibration, Channel Config., MSTs Calibration, Setting End Band, Engine Freq., and OK.

6. Level 1 Repair

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

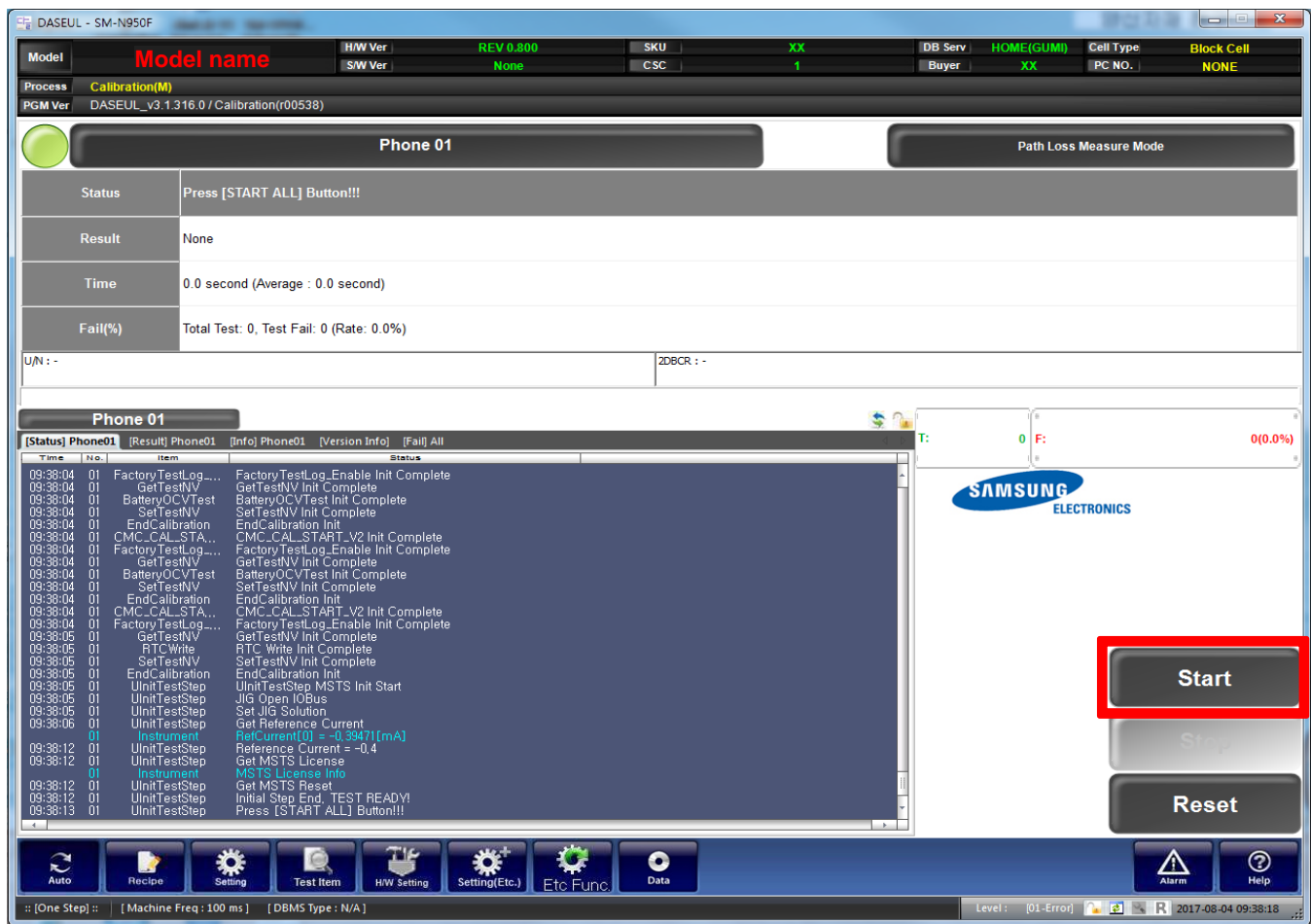


The 'Set System Configuration' dialog box is shown. It has a title bar with a gear icon and a close button. The main area is divided into several sections: 'Test Process' on the left with checkboxes for various tests; 'Test Condition' in the top middle with dropdowns for calibration and test modes; 'System Config.' in the top right with dropdowns for language, line name, and line type, and checkboxes for smart cloud cell and various modes; and a vertical sidebar on the right with buttons for 'Model Information', 'Hardware Config' (highlighted with a red box and a circled 1), 'Signal Loss Config.', 'Loss Calibration', 'Channel Config.', 'MSTS Calibration', 'Setting End Band', 'Engine Freq.', and 'OK'. At the bottom, there are buttons for 'Operation Condition', 'RUN SeeLog', and 'IMEI SVC&Repair Option'.



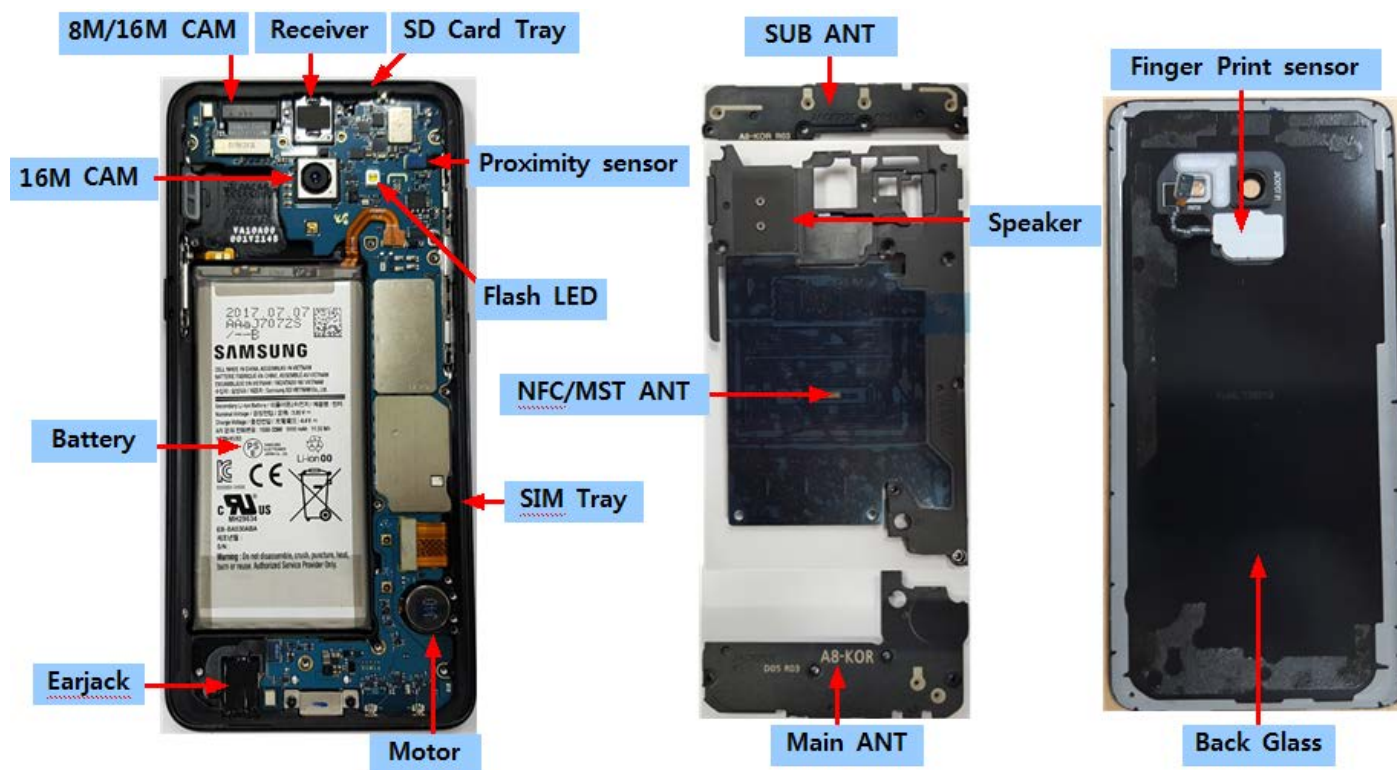
The 'Hardware Component Configuration' dialog box is shown. It has a title bar with a gear icon and a subtitle 'Controller Type, IO Bus Type, Port Setting...'. The main area is divided into several sections: 'Phone' on the left with dropdowns for count, I/F type, and I/F type; 'MSTS Sharing Controller' in the top middle with dropdowns for count, control type, and I/F type; 'Robot / ShieldBox' in the bottom middle with dropdowns for control type, I/F type, and I/F type; and 'MSTS IO Bus Setting' on the right with a table for board addresses. The 'MSTS IO Bus Setting' table has columns for 'No.', 'Board', and 'Address'. The 'Board' column has a dropdown menu with 'E' selected. The 'Address' column has a dropdown menu with 'NOT USE' selected. The 'MSTS IO Bus Setting' section also has a 'SAVE' button and a 'Cancel' button. At the bottom, there are buttons for 'SAVE' (highlighted with a red box and a circled 5) and 'Cancel'. There are also circled numbers 2, 3, and 4 pointing to specific fields: 2 points to 'MSTS Count', 3 points to 'Power Supply', and 4 points to the 'Board' dropdown in the 'MSTS IO Bus Setting' table.

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



7. Level 2 Repair

7-1 Components on the Rear Case



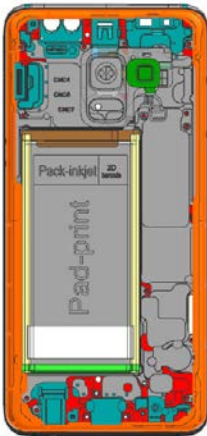
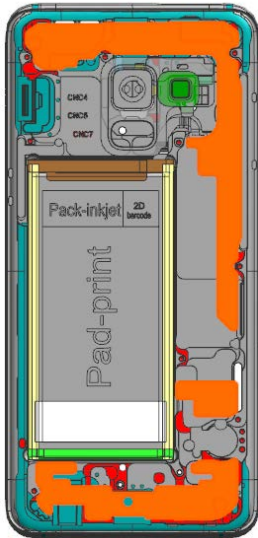
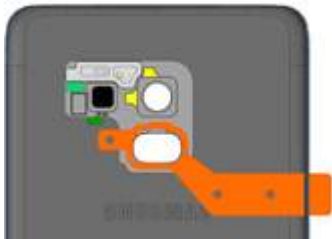
7. Level 2 Repair

7-2. Pre-requisite



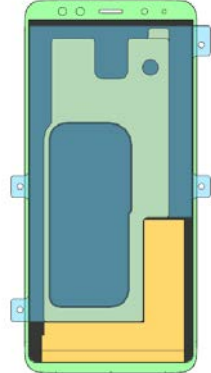
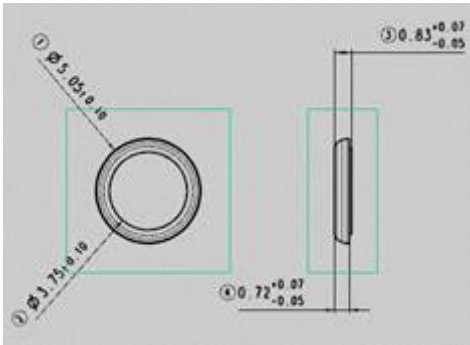
	
Tweezers / Disass'y Sticks / Screw Driver	Anti-static Gloves
	
Anti-static Mat	Hot Plate
	
A OCTA Disassembly Holder	OCTA Disassembly Upper
	
Ethyl Alcohol	Cotton Swab

7. Level 2 Repair

7-3 Parts which must be changed after repair

BOM description & part code	Image	Remarks
A/S-SVC TAPE BG WP OUTER [GH81-15175A]		Replace for Back Glass repair
A/S-SVC TAPE BG INNER [GH81-15176A]		
TAPE DOUBLE FACE-BG WP FINGER DECO [GH02-15669A]		Replace for Back Glass Or Finger print sensor repair

7. Level 2 Repair

<p>WINDOW TAPE [GH81-15177A]</p>		
<p>SVC HR TAPE (Attached FRONT. Don't use JIG) [GH81-15178A]</p>		<p>Replace for OCTA</p>
<p>CU SHEET GH02-15948A</p>		
<p>ORING [GH81-15238A] (Need Replace When the dispensing is damaged)</p>		<p>Replace for I/F Connector</p>

7. Level 2 Repair

7-4. Disassembly

1

- 1) Put the device in the chamber or Hot plate as below heating condition
- SOC 68%↓: 70℃/10~20min
- SOC 68%↑: 60℃/10~20min
※ Please confirm the heating condition released lastly, and follow it.

- 2) Detach the Backglass



※ **Caution**

Be careful not to damage set and OCTA.

2

- Disassemble SIM /SIM1,SIM2+Micro SD Card tray from device.
Unscrew 14Points.



※ **Caution**

Be care of scratch and molding damage.

3

- Disassemble the REAR.
Rear TOP -> MID -> BOT
By using guide hole disassemble Rear



※ **Caution**

Be care of damage to components.

4

- Unscrew 3 Points front PBA



※ **Caution**

Be careful not to damage the PBA.

7. Level 2 Repair

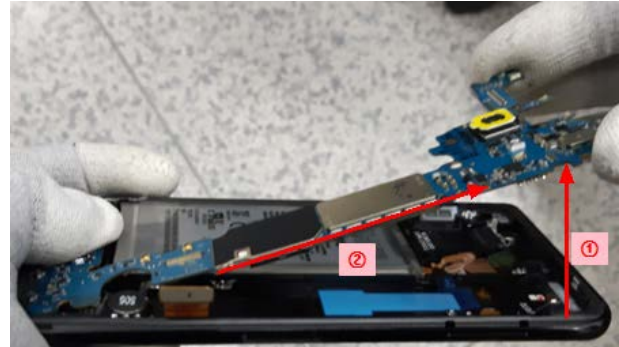
5

Disassemble connector 5 Points.



6

Disassemble PBA from Front.
(like ①② image)



※ Caution

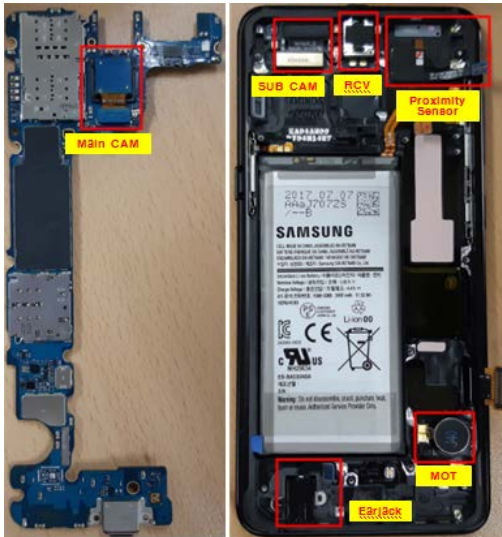
Be care of damage to connector

※ Caution

Be care of damage to side contact point

7

Disassemble another items

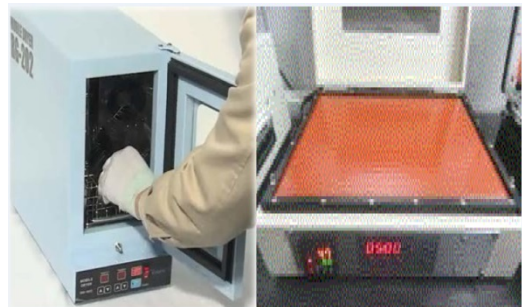


※ Caution

Be care of damage/ scratch

8

To separate the OCTA, heat hot chamber or hot plate
temperature : $70^{\circ}\pm 5$, time : 15 minutes



※ Caution

Be careful not to damage set and OCTA

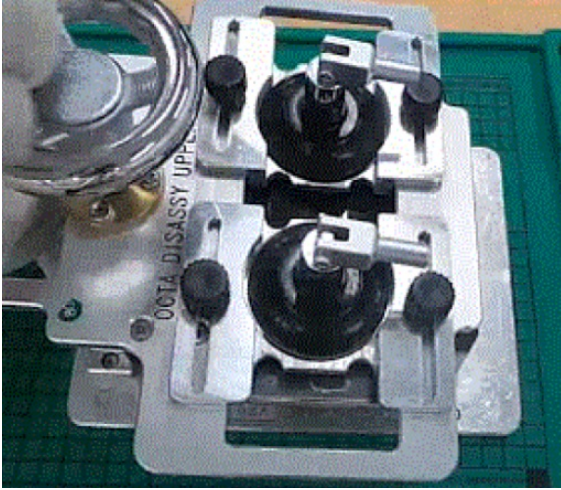
삼성전자주식회사

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7. Level 2 Repair

8

Separate the OCTA



※ Caution

Be careful not to damage set and OCTA

7. Level 2 Repair

7-5. Assembly

<div data-bbox="97 300 181 367">1</div> <div data-bbox="205 338 772 456"> <p>Assembly Main CAM, RCV, Motor at PBA, Front Screw 1Point for fix earjack Torque :1.1 Kgf·cm</p> </div> <div data-bbox="97 501 772 972"> </div>	<div data-bbox="798 300 882 367">2</div> <div data-bbox="922 331 1473 383"> <p>Attach OCTA</p> </div> <div data-bbox="818 434 1402 1016"> </div>
<p>※ Caution Be care of strong pushing</p>	<p>※ Caution Be care of FPCB damage</p>
<div data-bbox="97 1097 181 1164">3</div> <div data-bbox="252 1178 716 1234"> <p>Assemble PBA on Front.</p> </div> <div data-bbox="97 1397 751 1756"> </div>	<div data-bbox="798 1097 882 1164">4</div> <div data-bbox="943 1178 1425 1249"> <p>Assemble connector of sub CAM</p> </div> <div data-bbox="855 1397 1444 1720"> </div>
<p>※ Caution Be care of FPCB damage.PBA Damage</p>	<p>※ Caution Be careful not to FPCB damage and tilt, strong pushing</p>

7. Level 2 Repair

5

Assemble Battery connector and Screw
4Point



6

Screw 3Point of PBA
(Torque:1.2 Kgf-cm±7%)



※ Caution

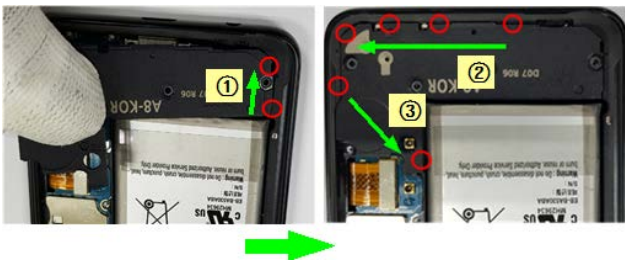
1) Be care of connector damage

※ Caution

Be care of PBA damage

7

Assemble Rear BTM



8

Assemble Rear MID



※ Caution

Be care of REAR damage

※ Caution

Be care of REAR damage

삼성전자주식회사

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7. Level 2 Repair

9

Assemble Rear TOP



※ Caution
Be care of REAR damage

10

SCREW 14POINT and
Insert SIM1, SIM2+Micro SD Card TRAY
(Torque :1.35 Kgf•cm)



※ Caution
Be care of REAR scratch

11

Attach finger sensor in Rear.



※ Caution
Be care of REAR scratch

12

Attach Back Glass



※ Caution
Be care of REAR scratch

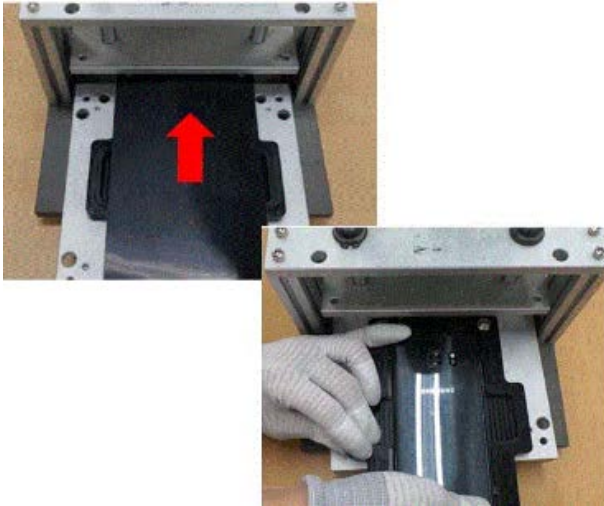
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7. Level 2 Repair

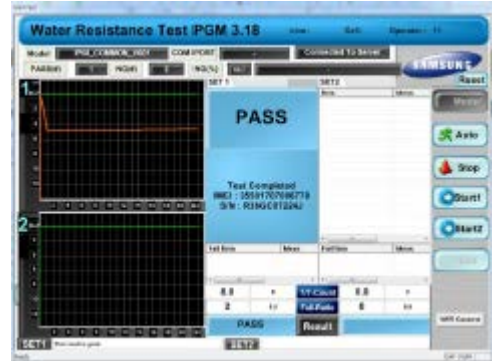
13

Press the device using pressing jig
- Force : 1N
- Time : 1minute



14

Test WRT



※ Caution

Please confirm the pressing condition released lastly, and follow it.

※ Caution

Be care of REAR scratch

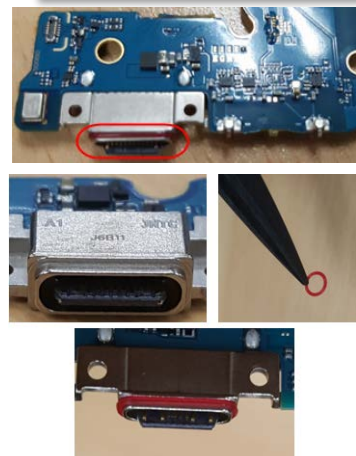
15

If WRT test happen fail, check the reason
(sealing or etc)



16

The reason is IF connector,
Disassemble PBA from Front and change
O-Ring



※ Caution

Be care of REAR scratch

※ Caution

Be care of PBA damage

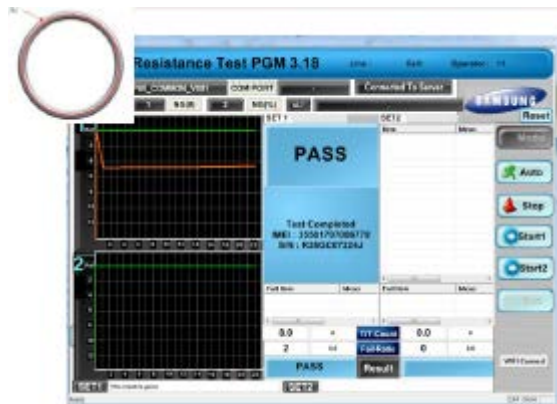
삼성전자주식회사

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7. Level 2 Repair

17

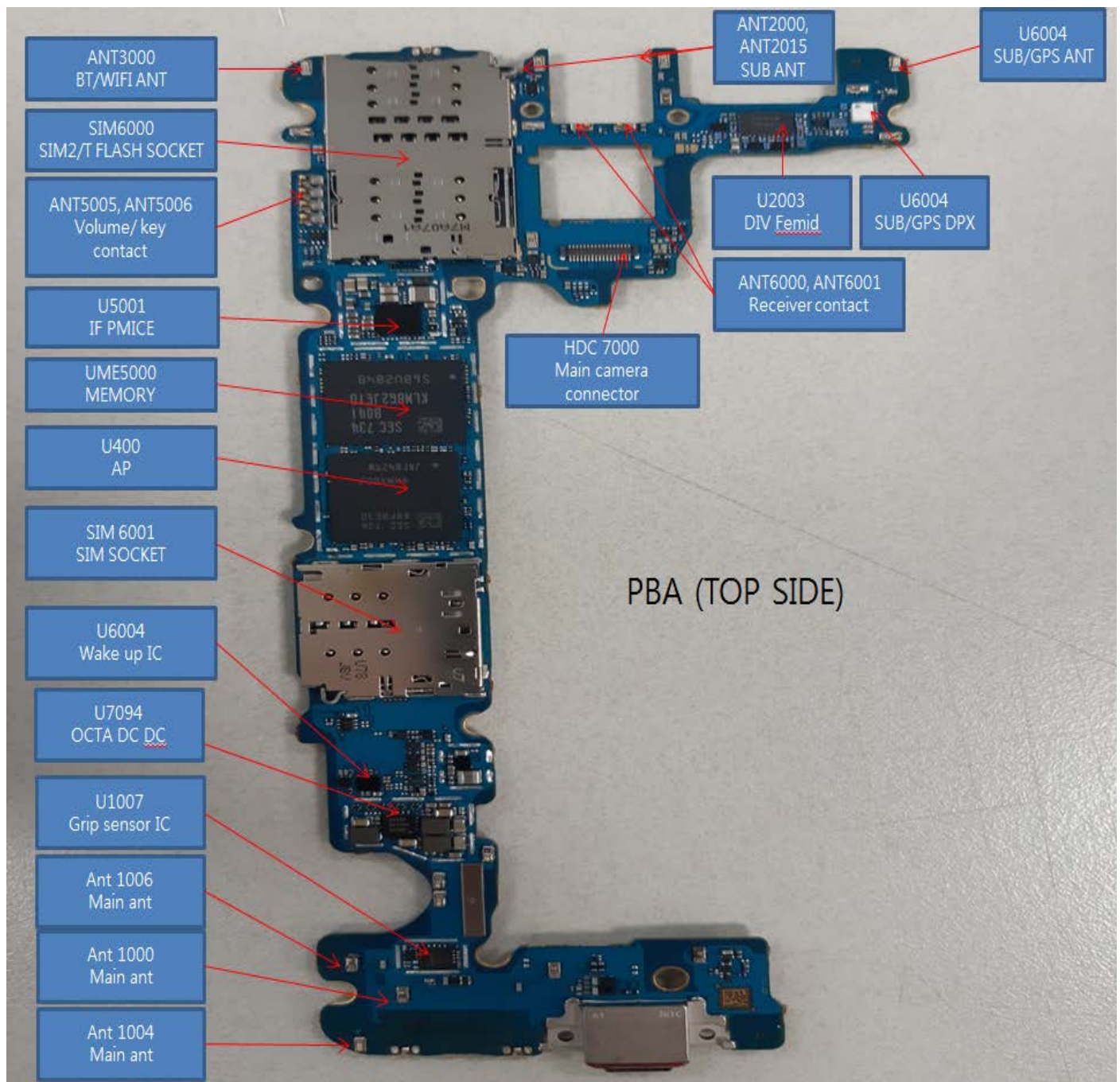
test WRT.



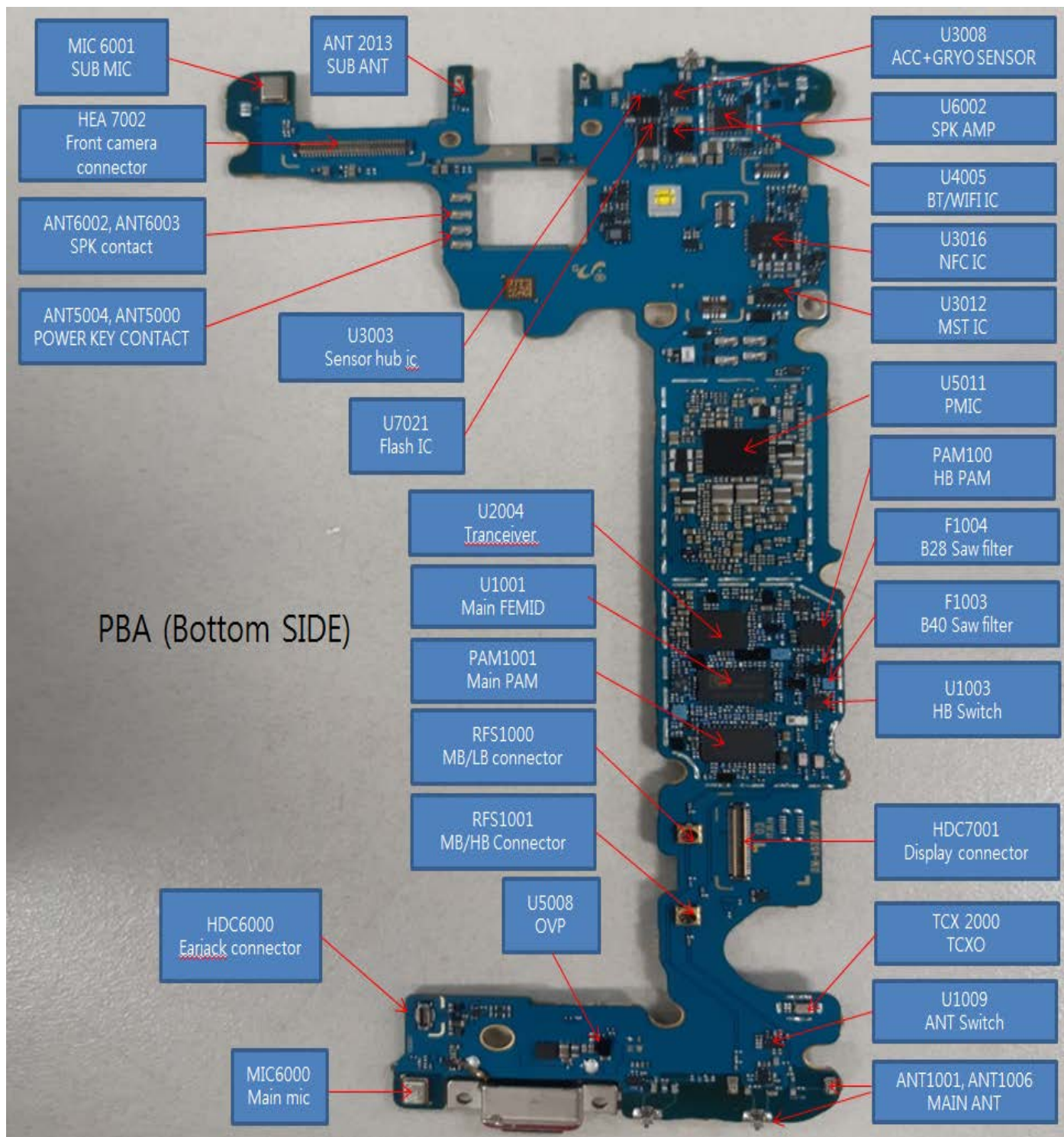
※ Caution
Be care of REAR scratch

8. Level 3 Repair

8-1. Components Layout



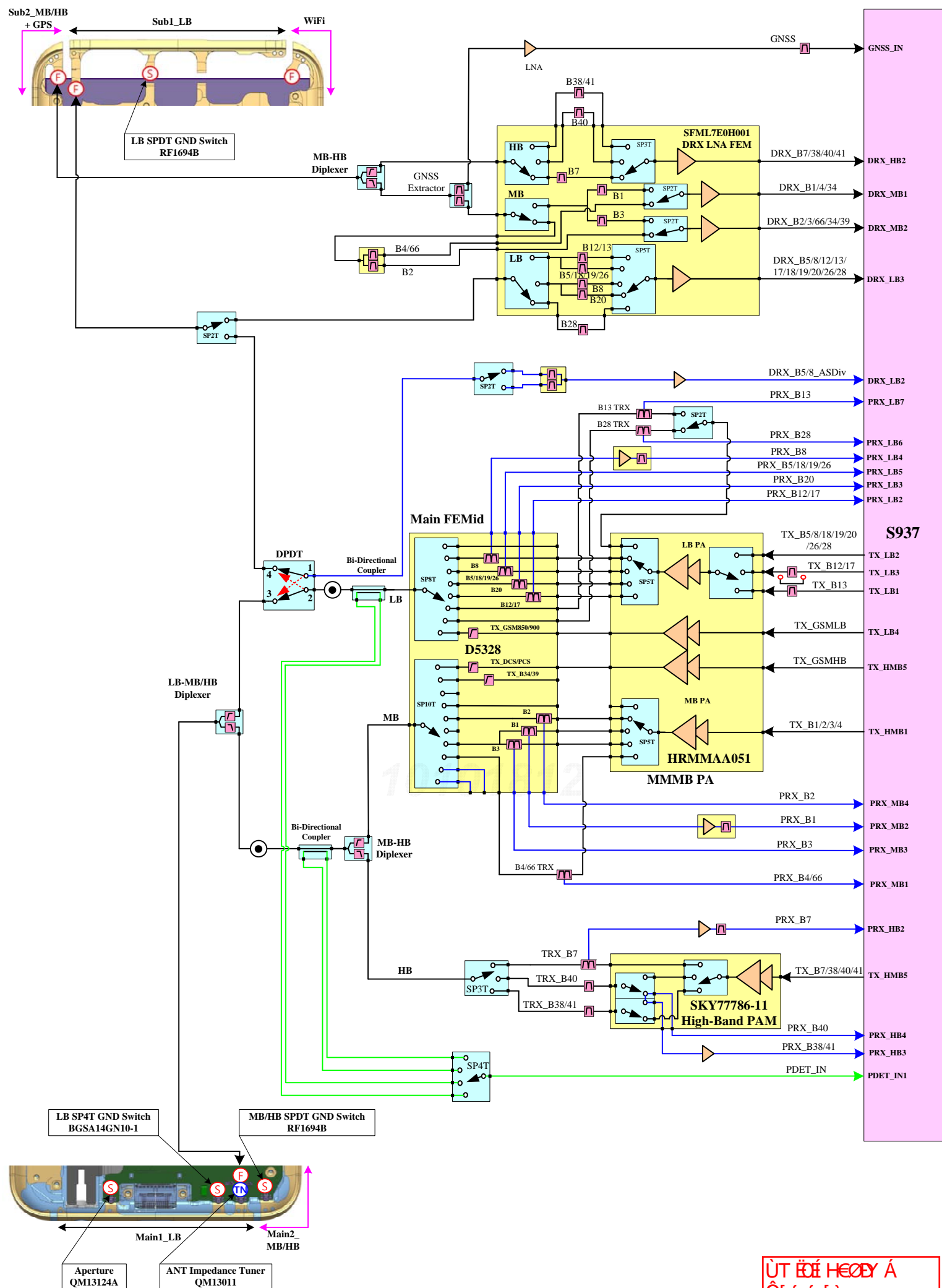
8. Level 3 Repair



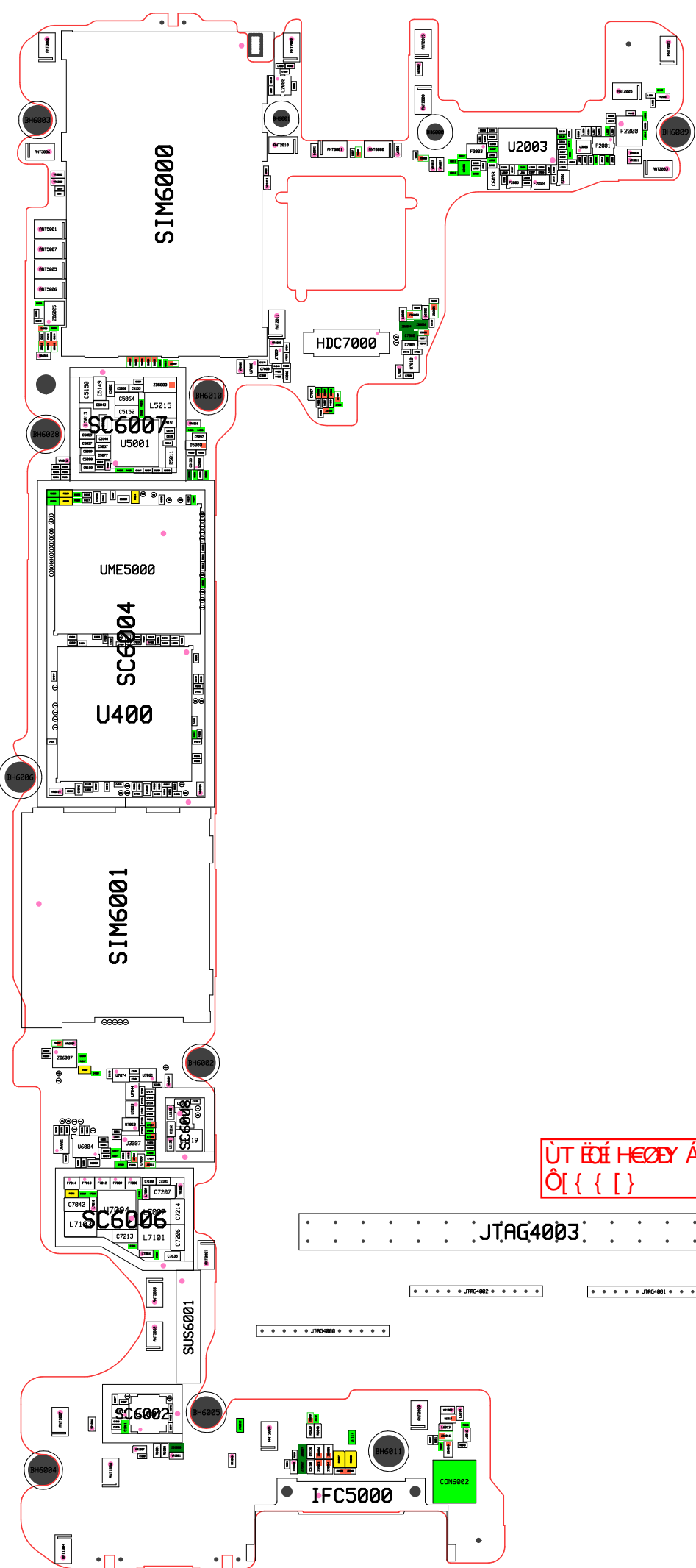
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2018 A Jackpot+/Jackpot RF Block Diagram



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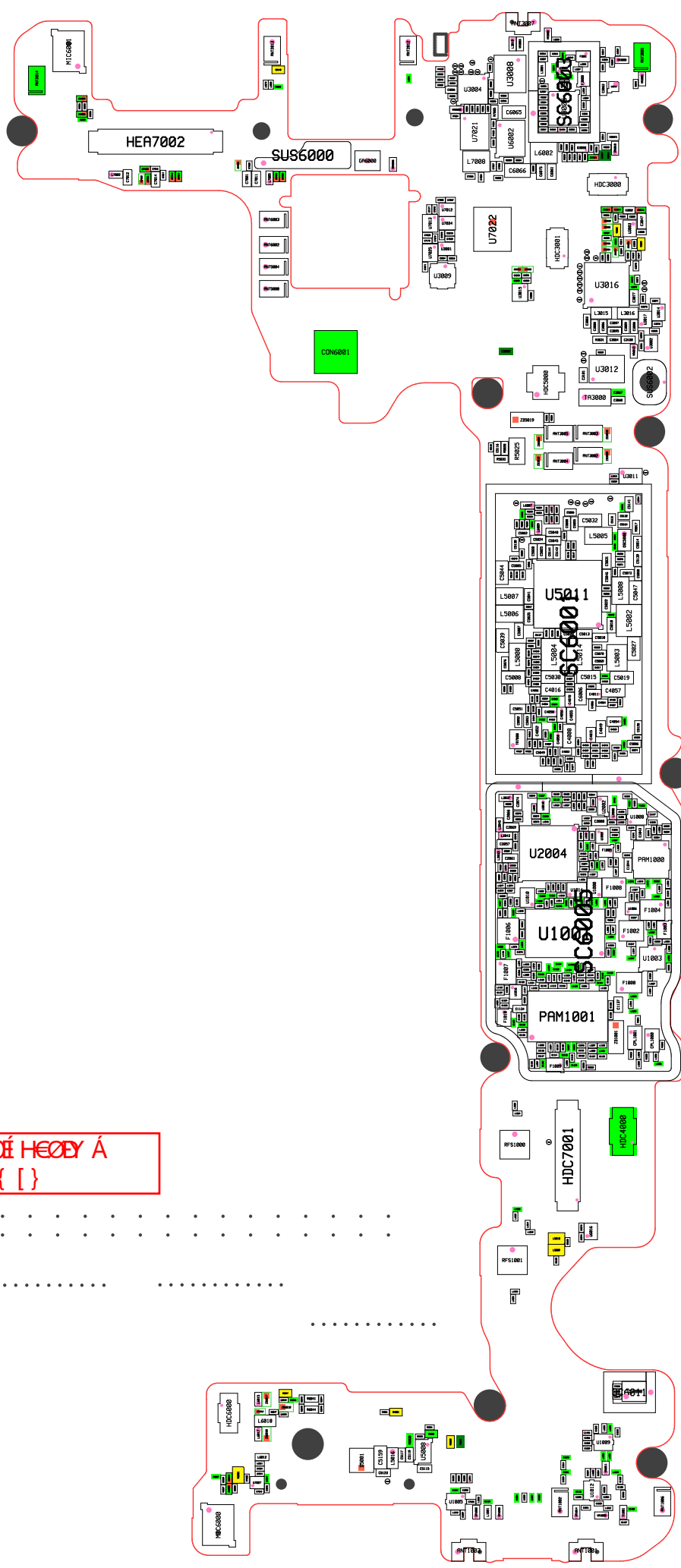
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• • • • • JTAG4003 • • • • •

• • • • • JTAG4002 • • • • •

• • • • • JTAG4001 • • • • •

• • • • • JTAG4000 • • • • •



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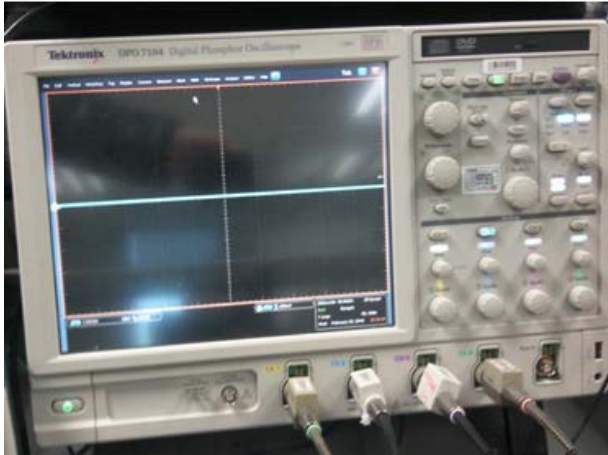
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8. Level 3 Repair

8-3. Flow chart of Troubleshooting.



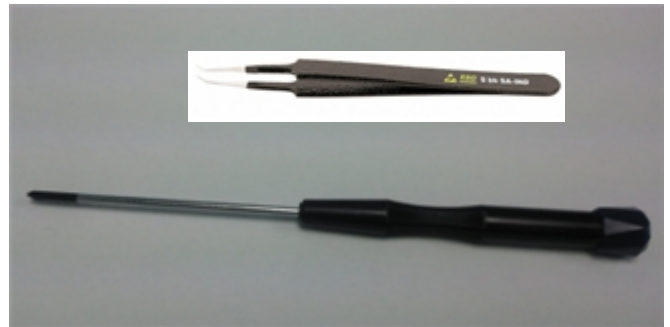
Oscilloscope



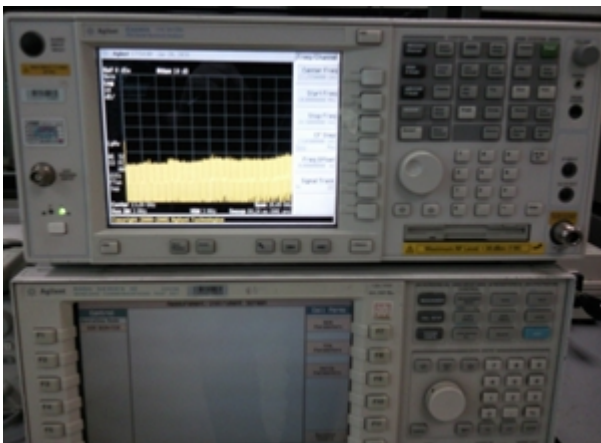
Digital Multimeter



Power Supply



+ driver, ESD Safe Tweezer



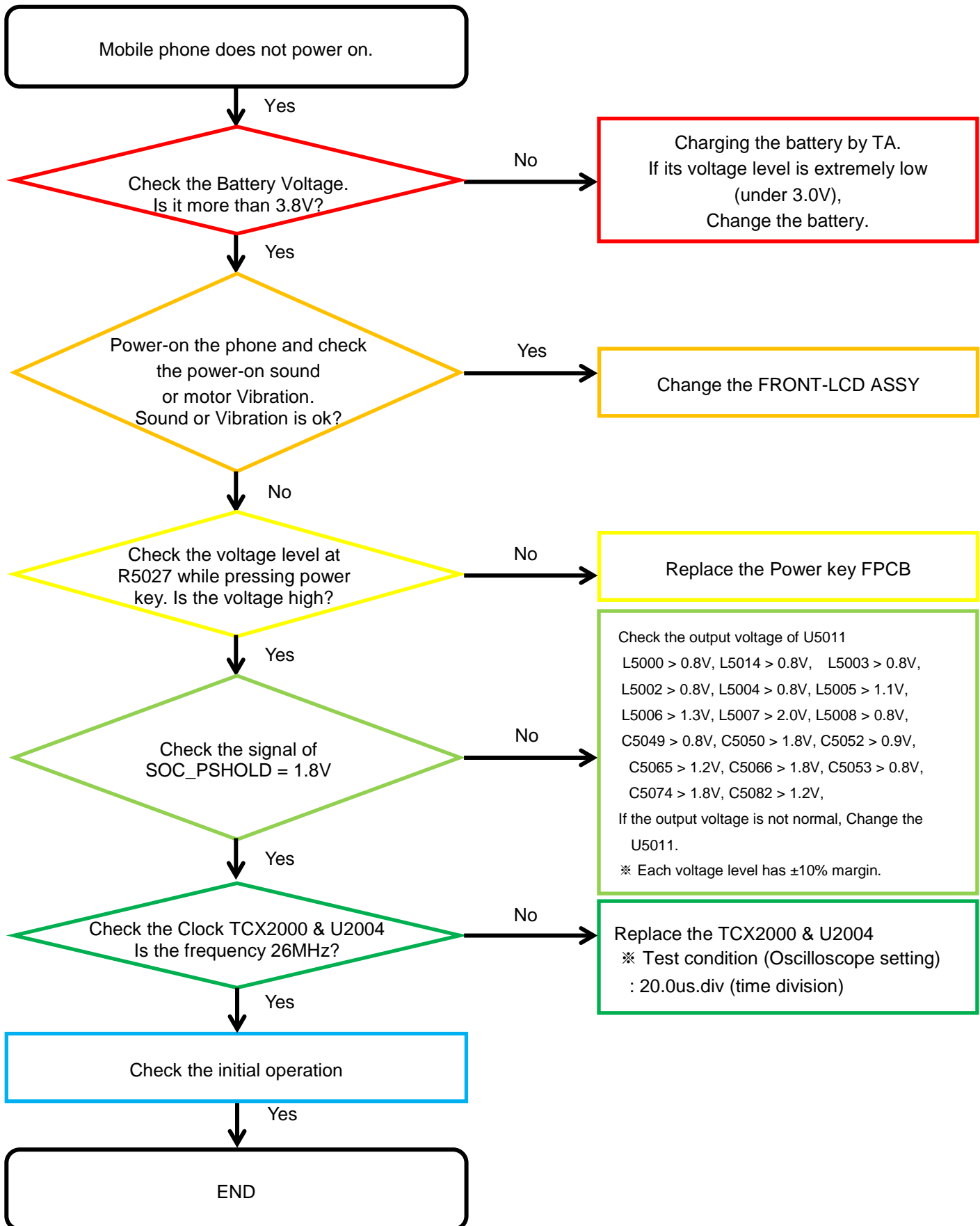
8960 & Spectrum Analyzer



Soldering iron

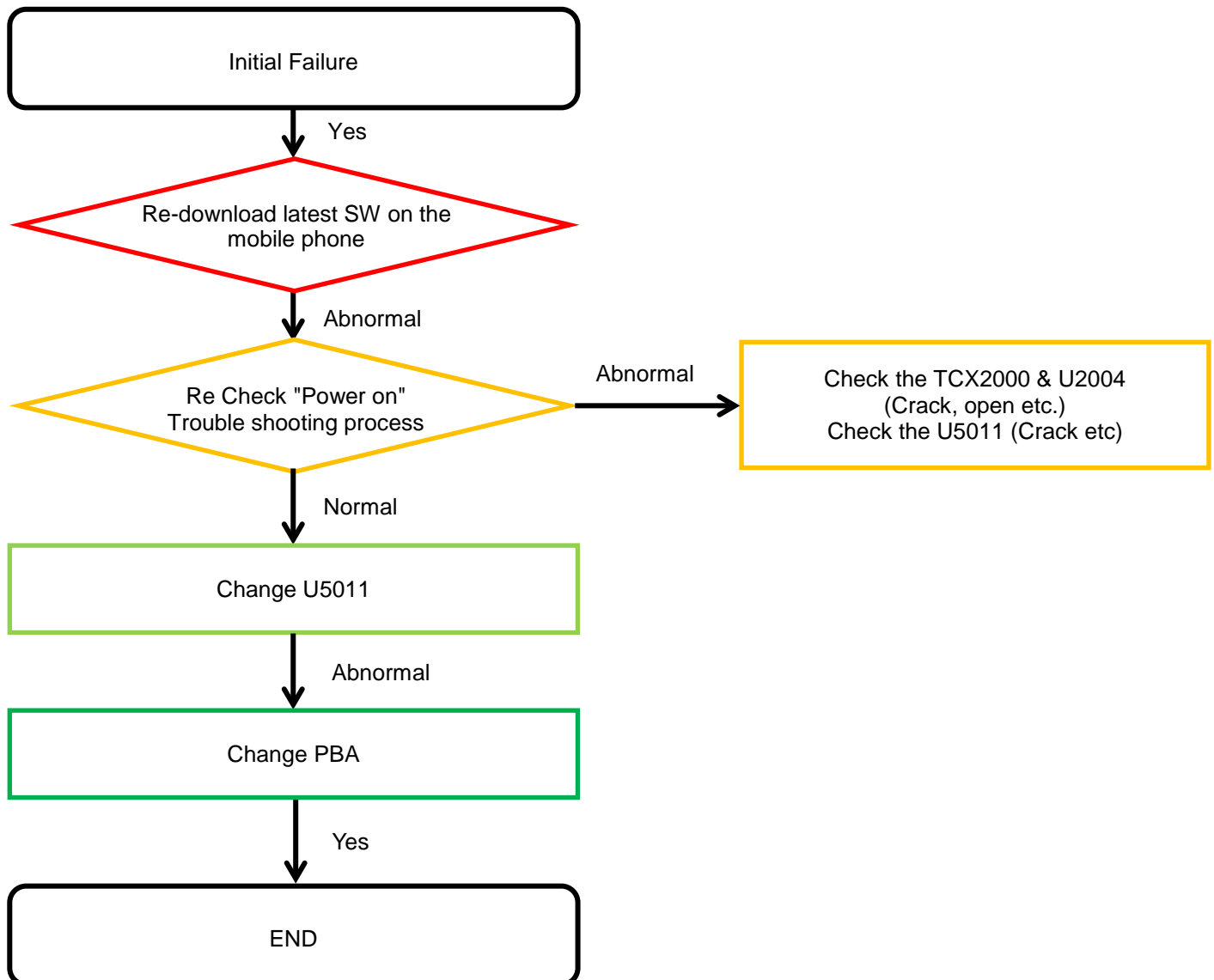
8. Level 3 Repair

8-4-1. Power On



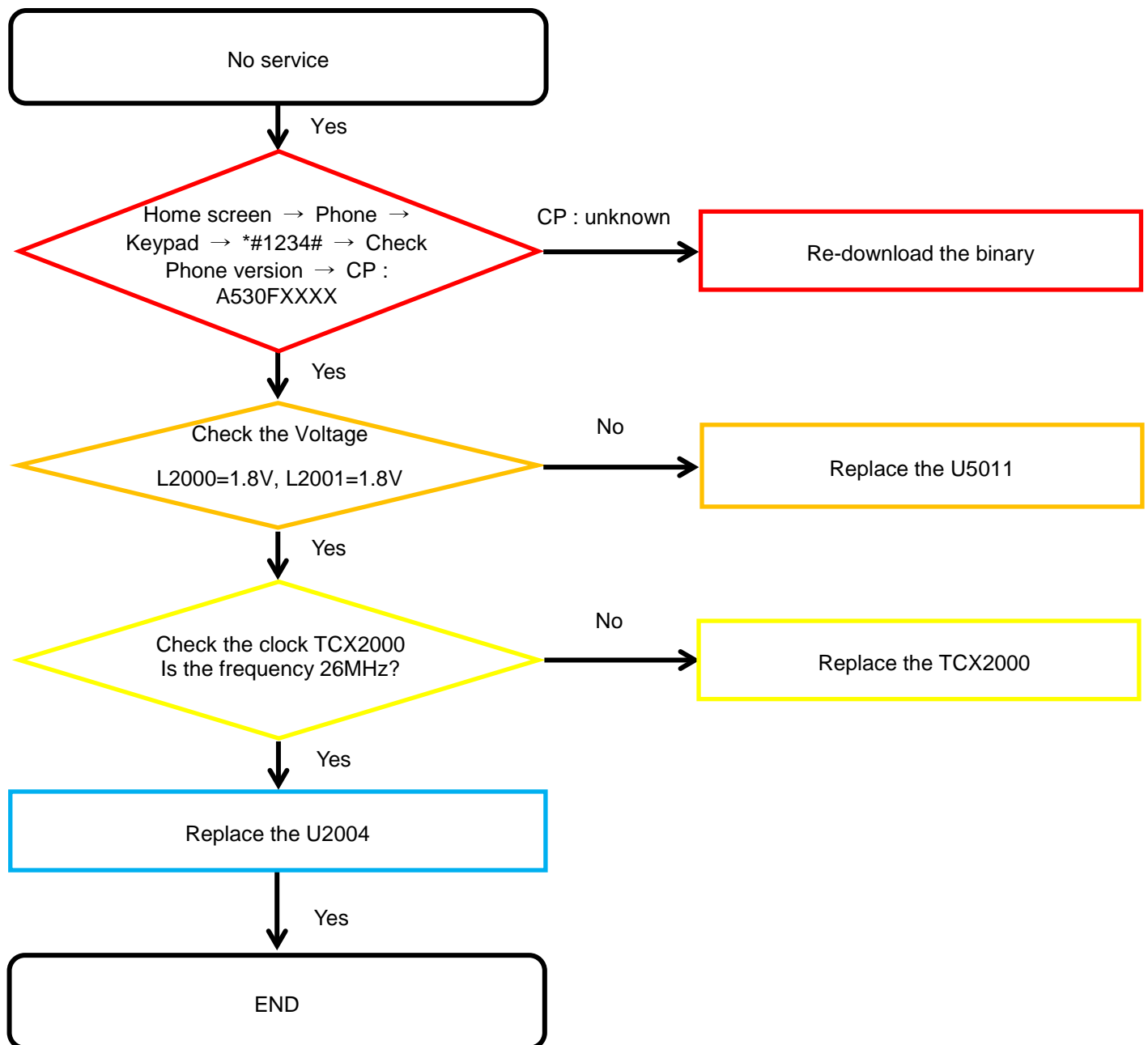
8. Level 3 Repair

8-4-2. Initial



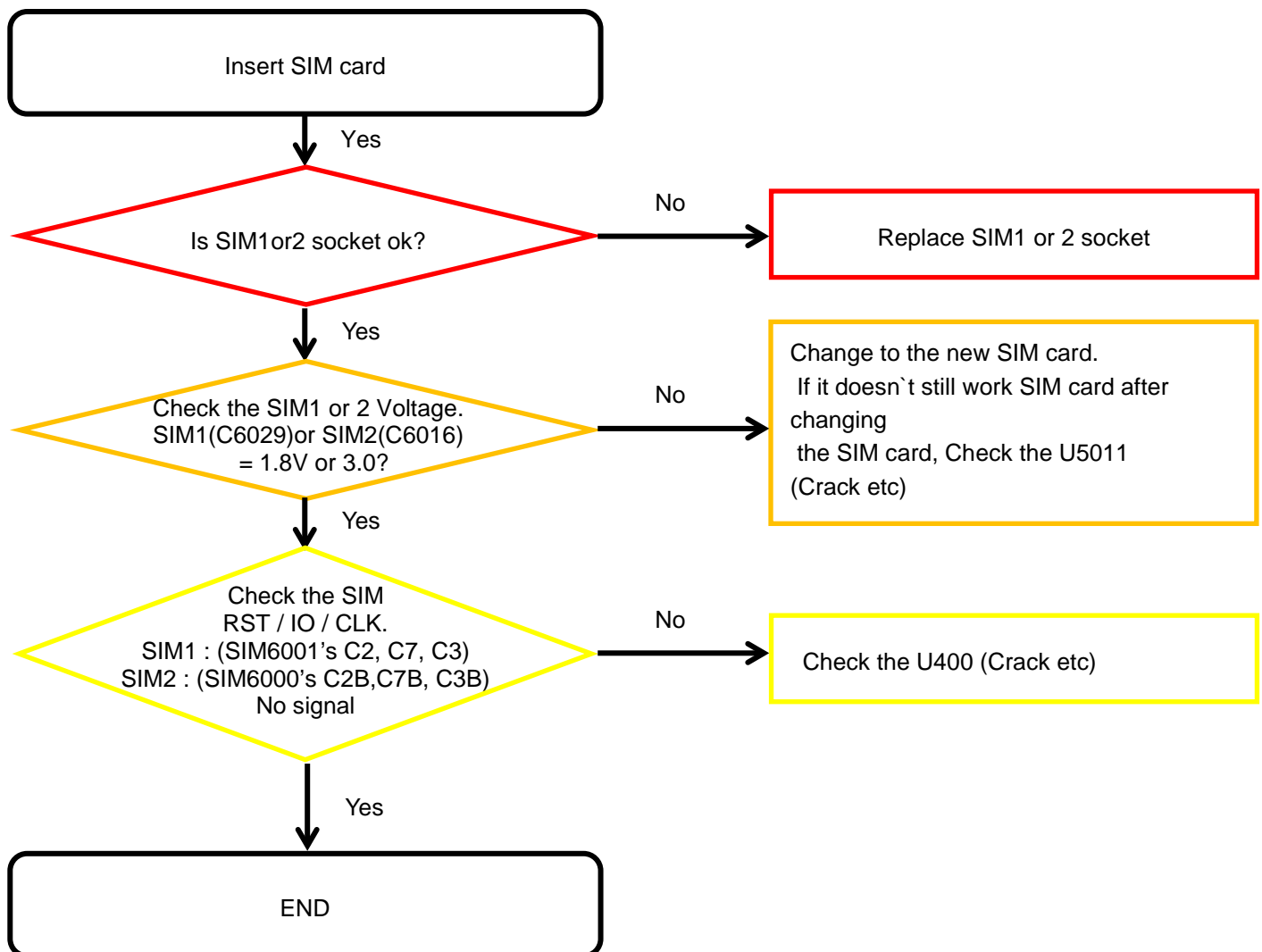
8. Level 3 Repair

8-4-3. No Service



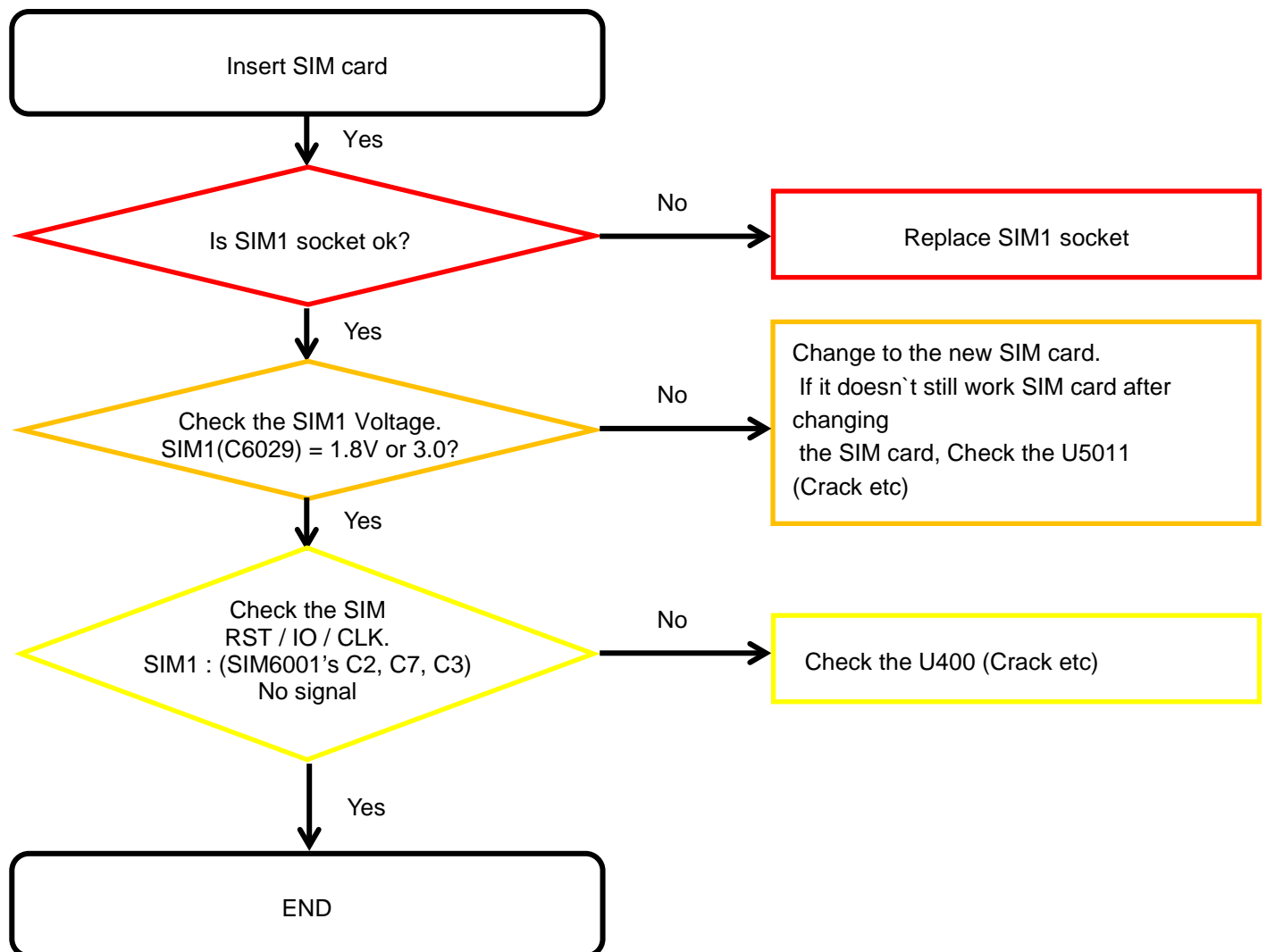
8. Level 3 Repair

[SM-A530F] 8-4-4-1. SIM Part



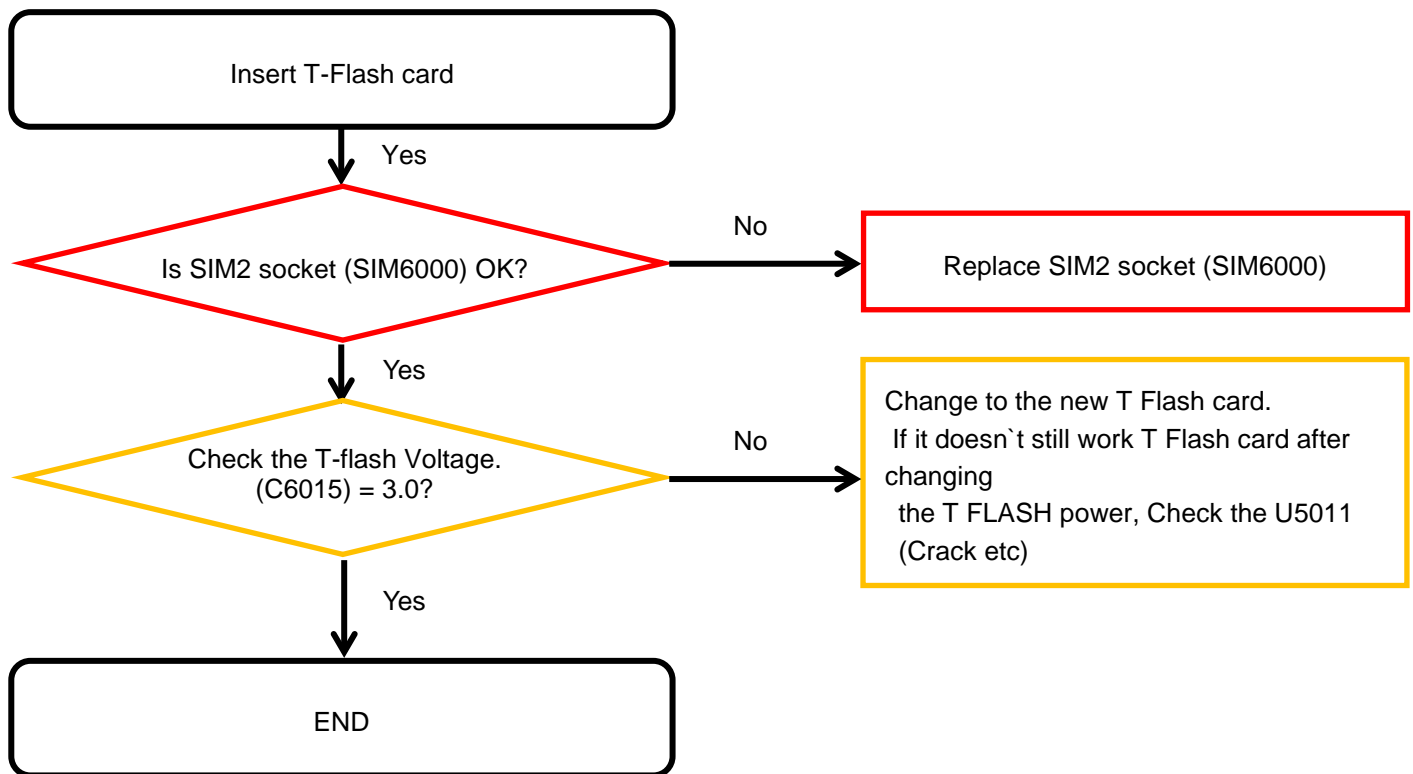
8. Level 3 Repair

[SM-A530W] 8-4-4-2. SIM Part



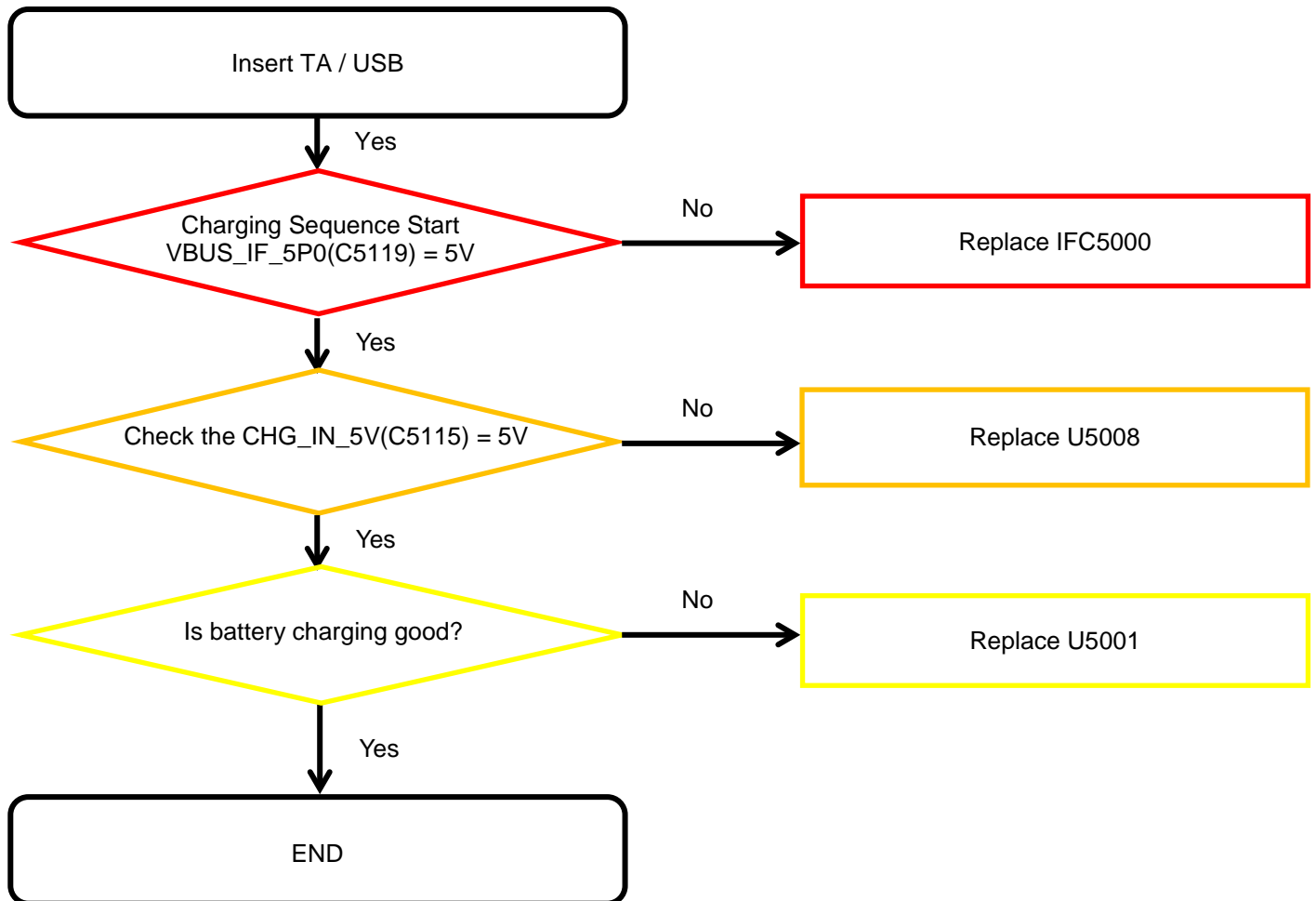
8. Level 3 Repair

8-4-5. T-Flash Part



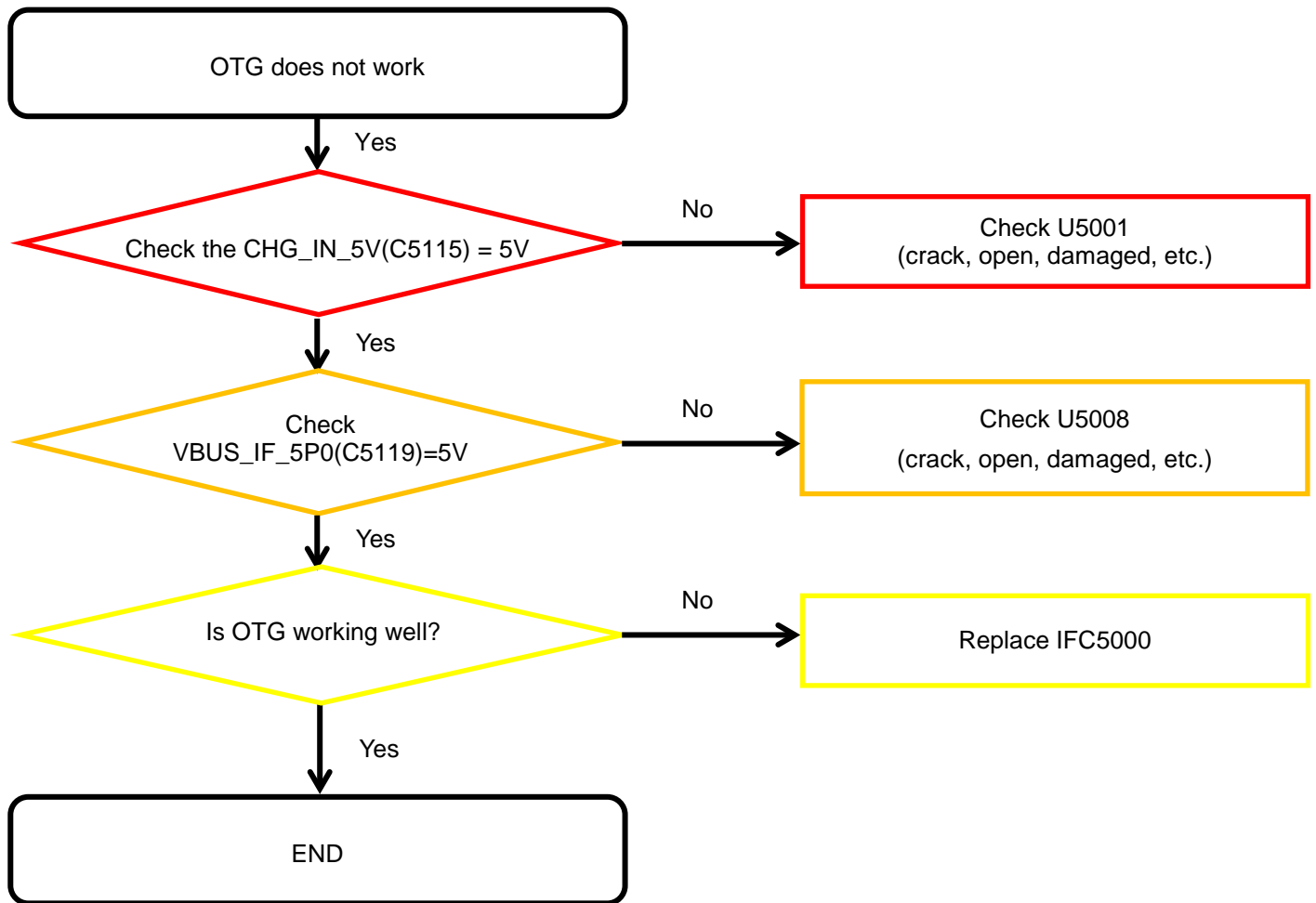
8. Level 3 Repair

8-4-6. Cable Charging Part



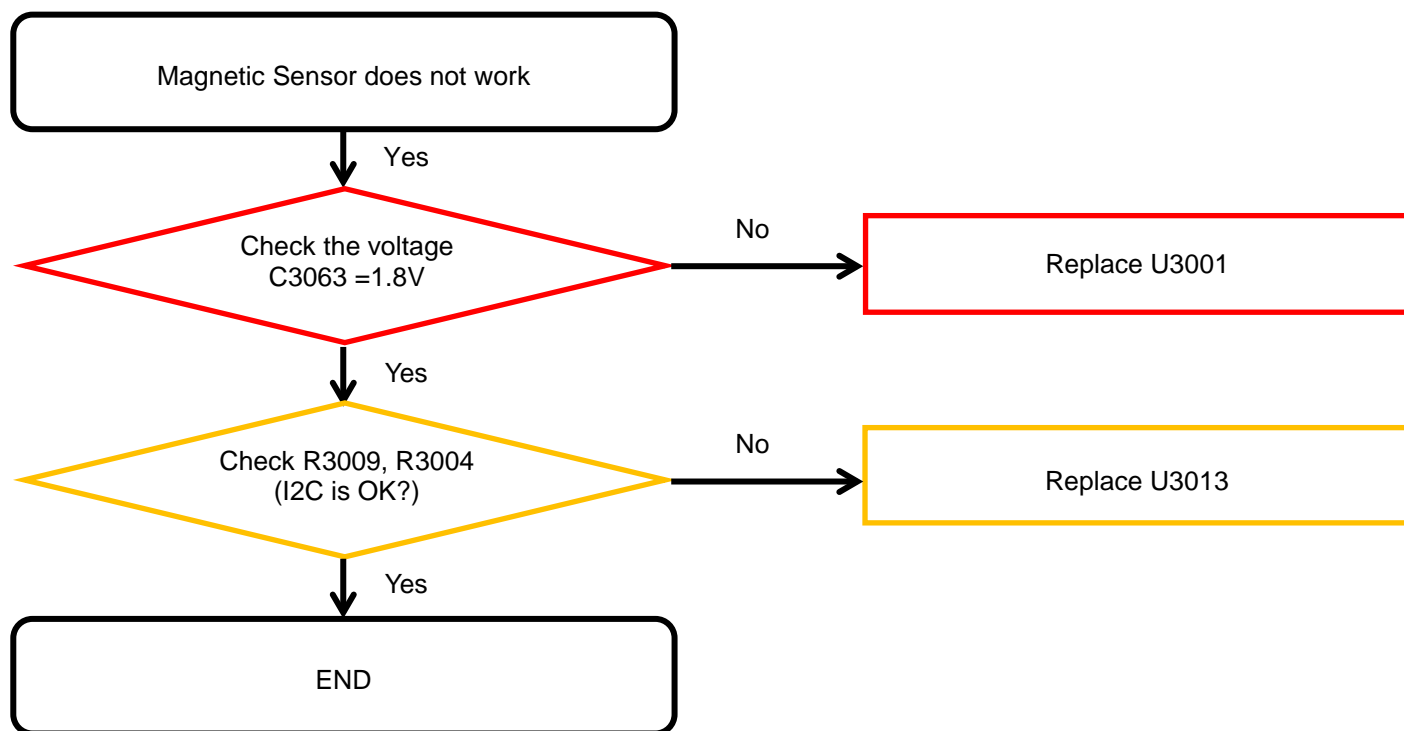
8. Level 3 Repair

8-4-7. OTG



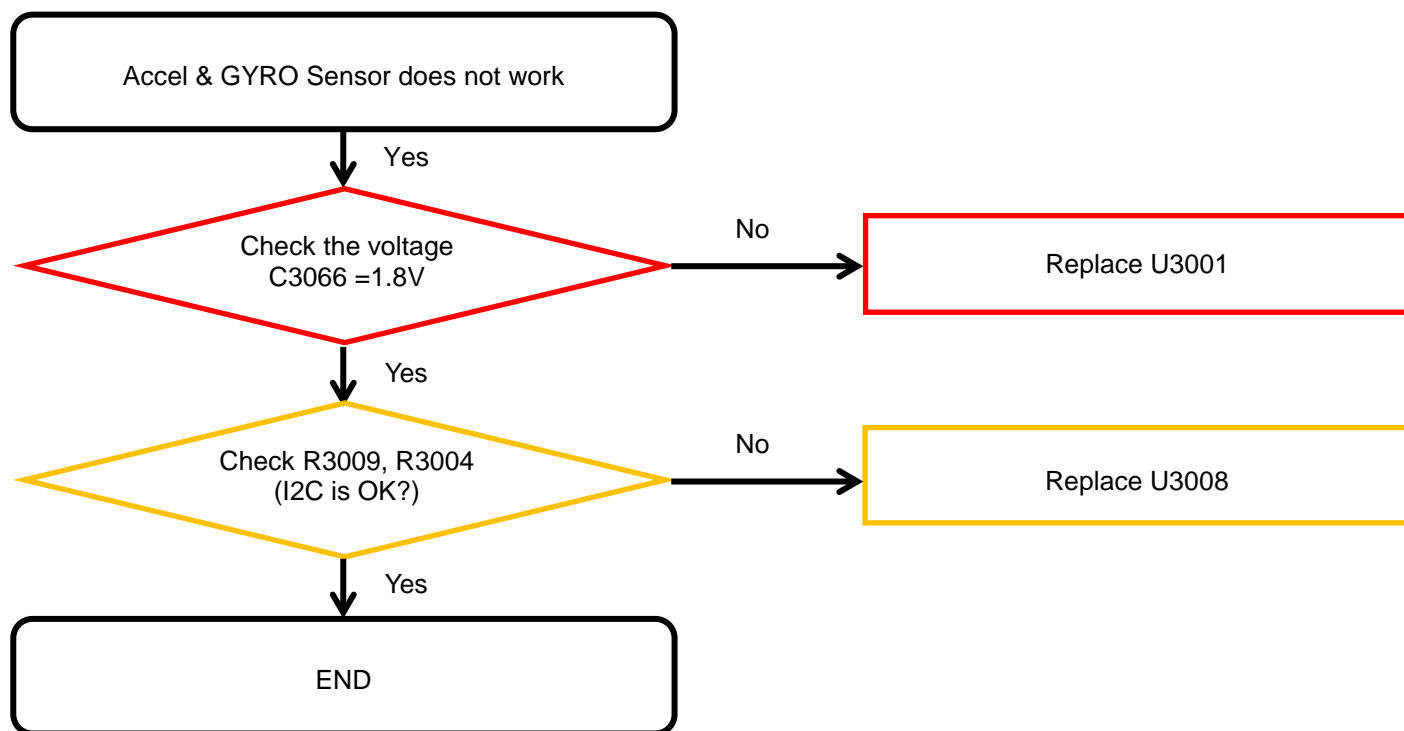
8. Level 3 Repair

8-4-8-1. Magnetic Sensor



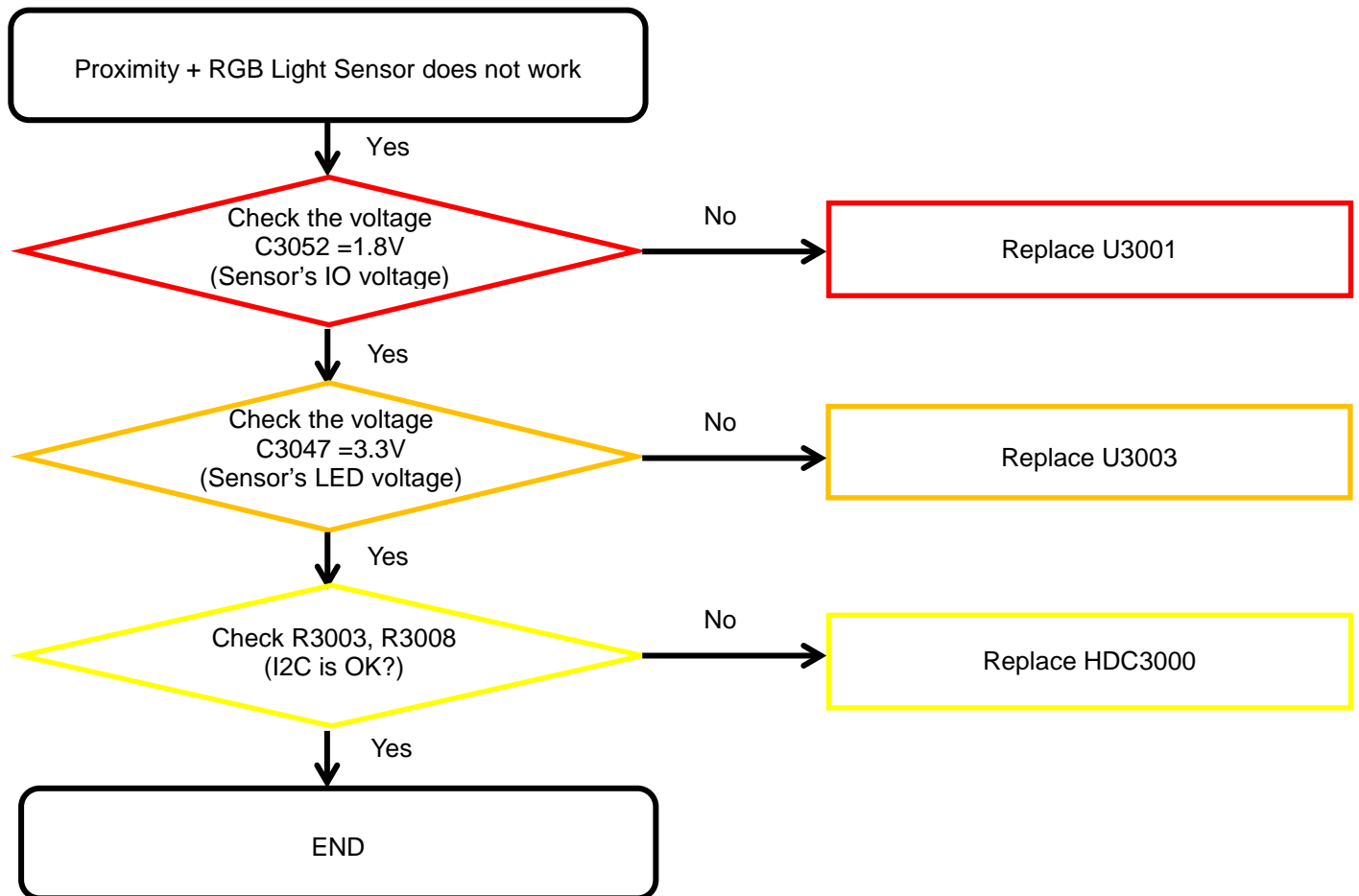
8. Level 3 Repair

8-4-8-2. Accel & GYRO Sensor



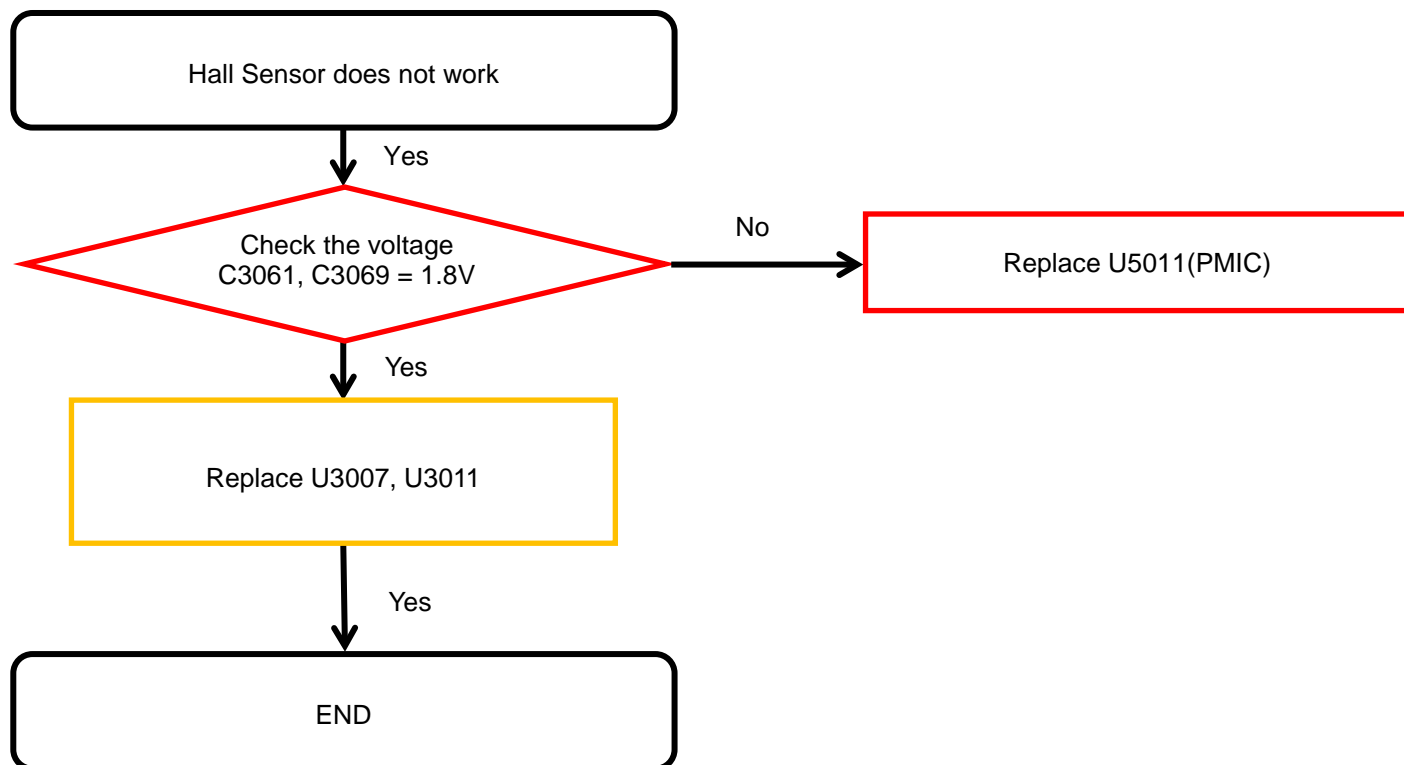
8. Level 3 Repair

8-4-8-3. Proximity + RGB Light sensor



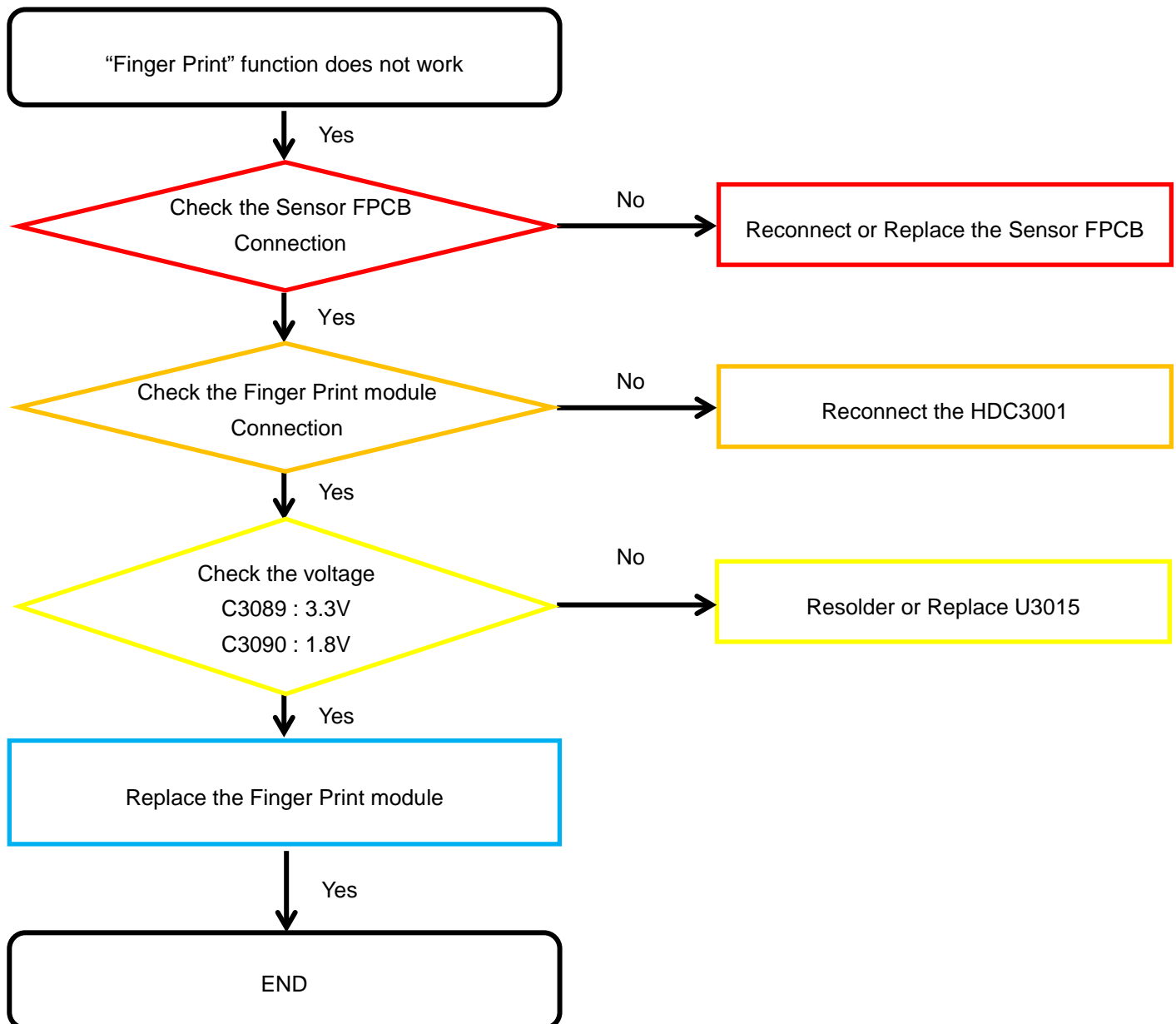
8. Level 3 Repair

8-4-8-4. Hall Sensor



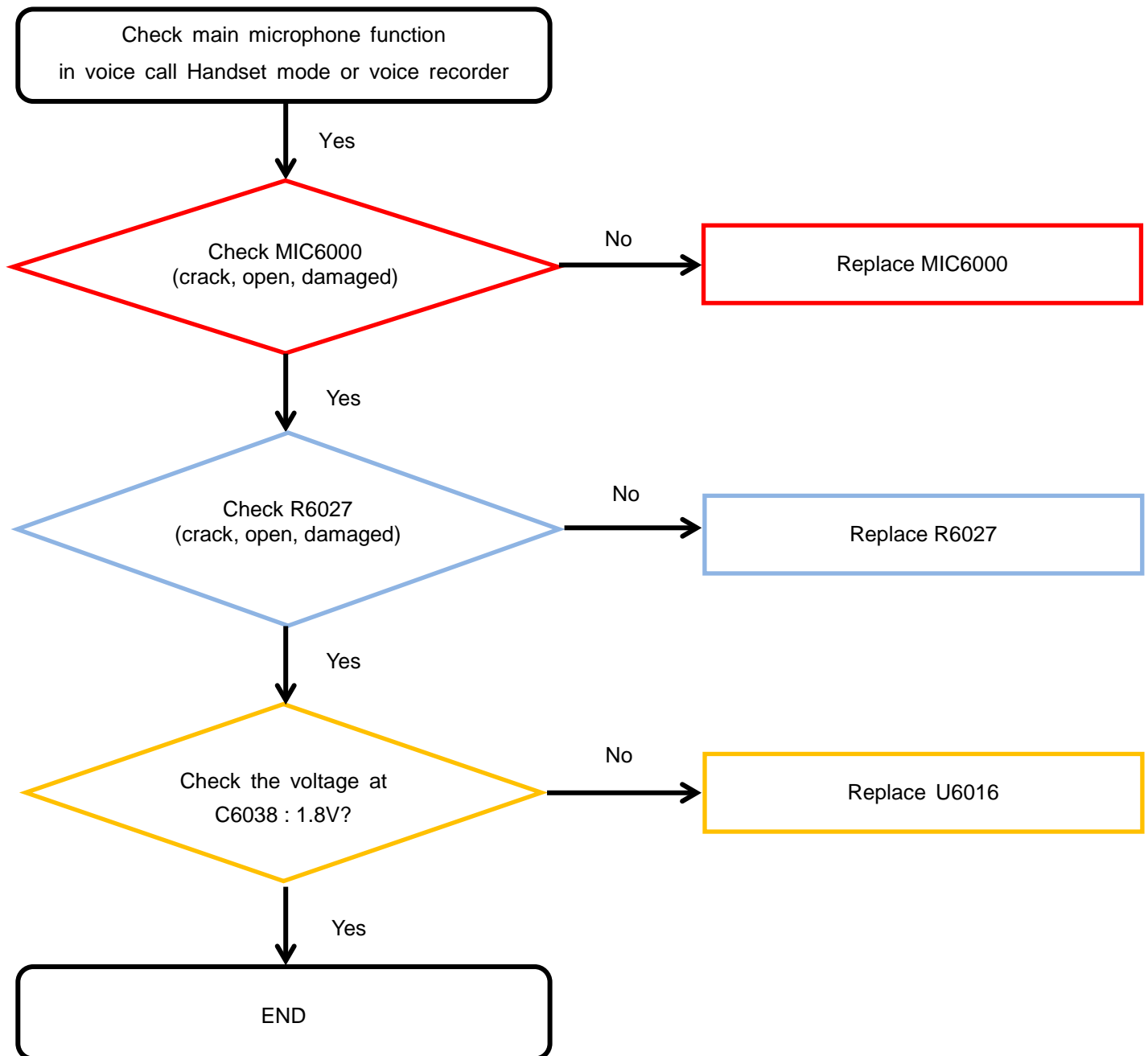
8. Level 3 Repair

8-4-8-5. Fingerprint Sensor



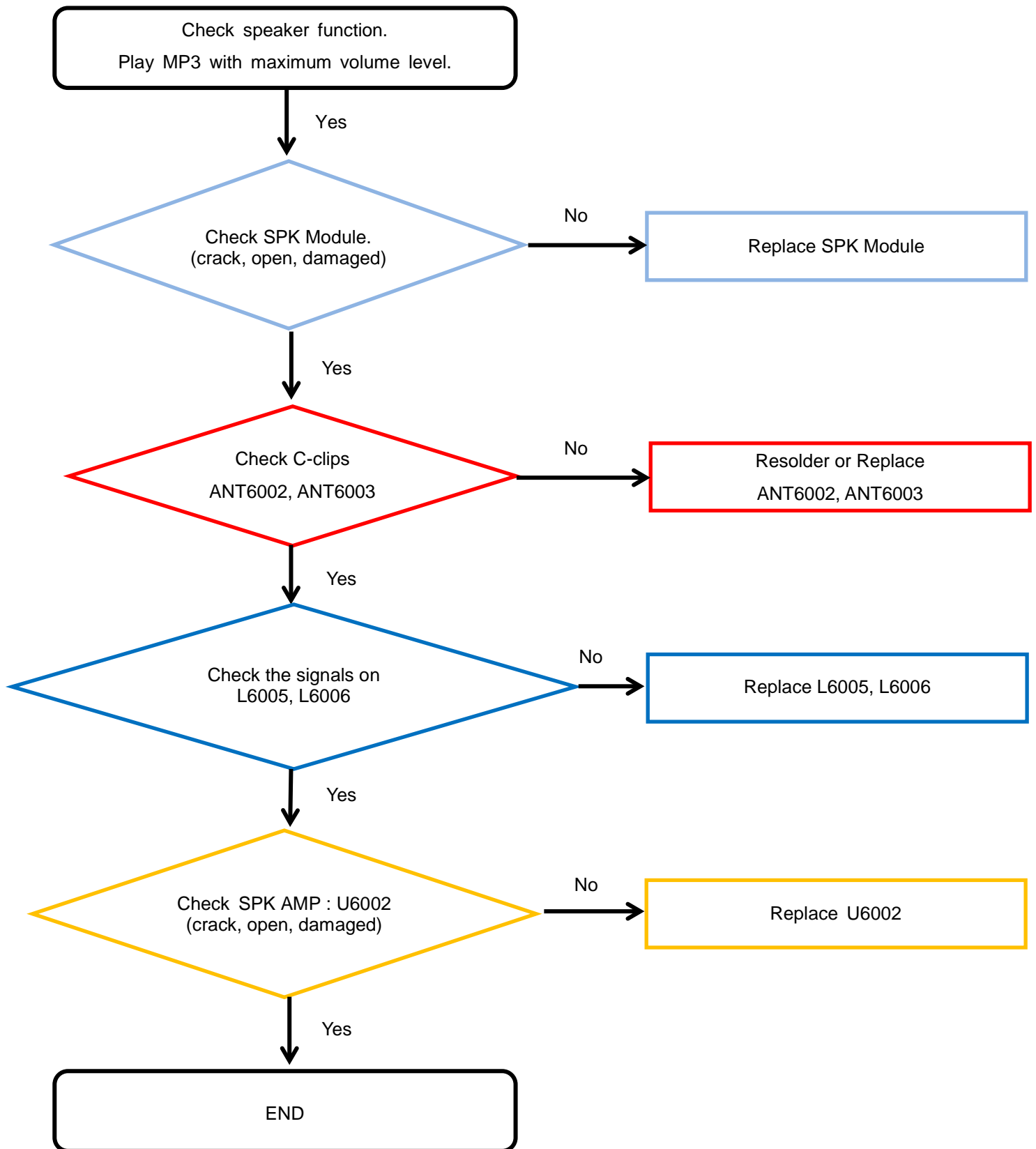
8. Level 3 Repair

8-4-9. Microphone Part



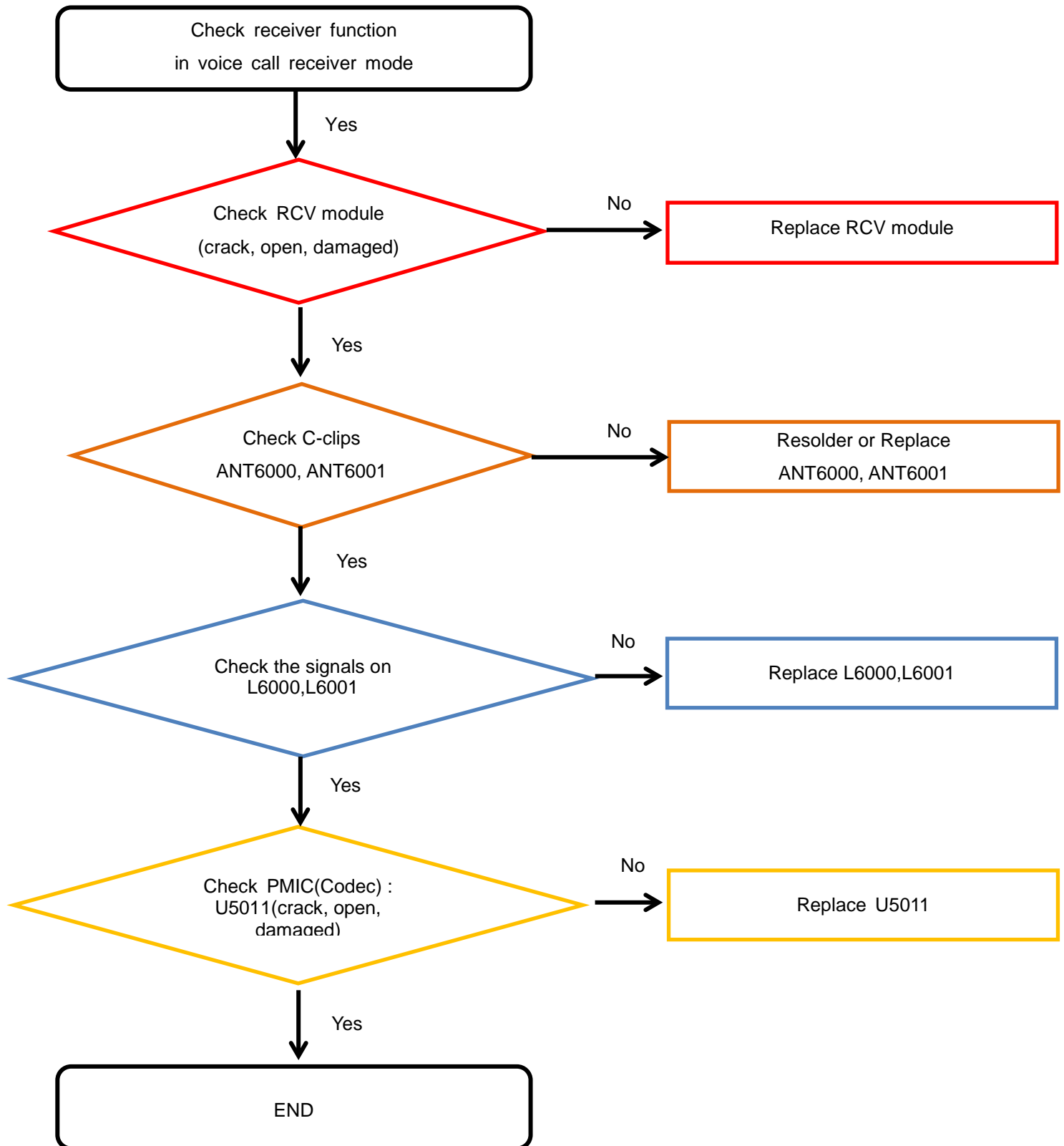
8. Level 3 Repair

8-4-10. Speaker Part



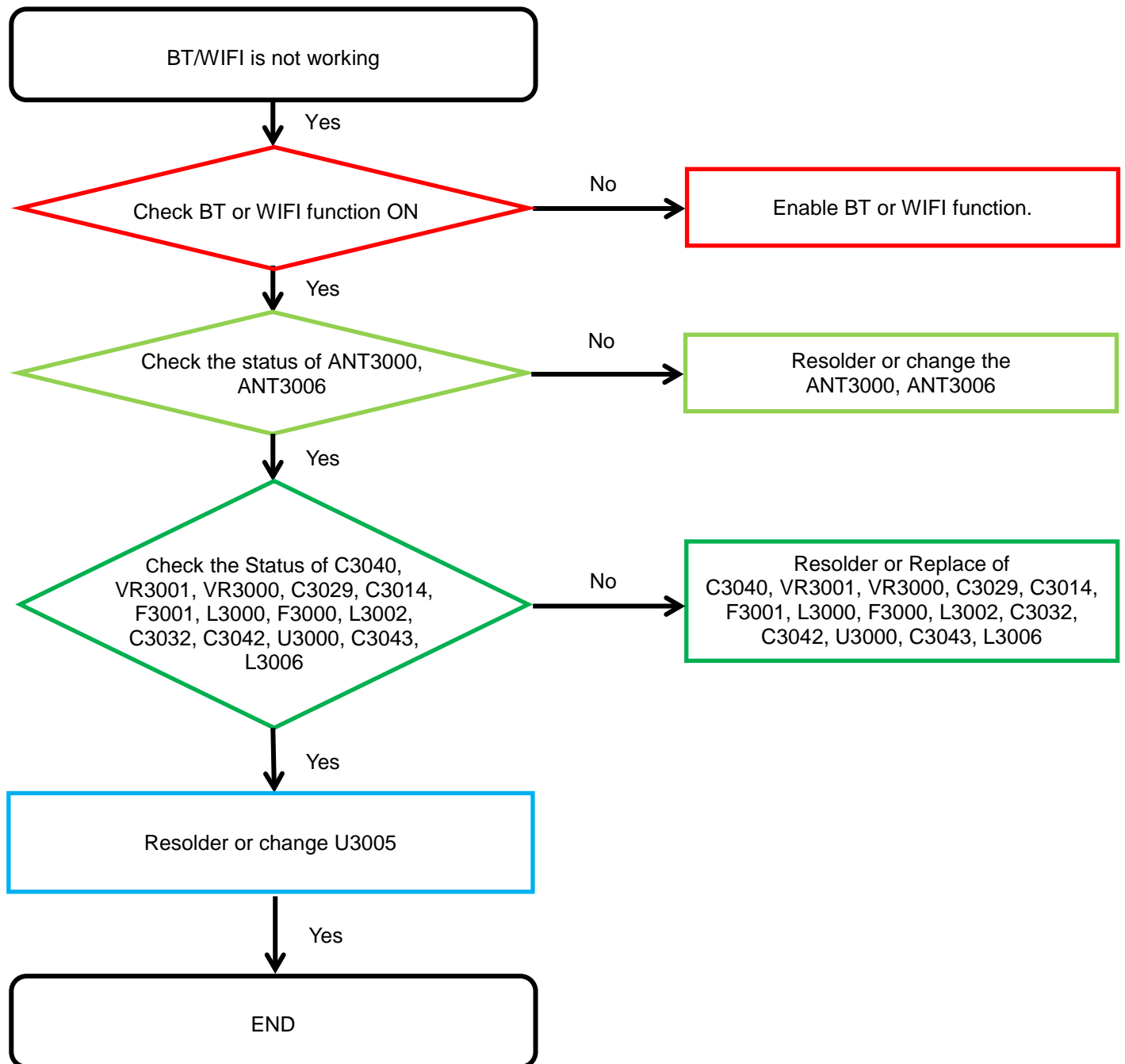
8. Level 3 Repair

8-4-11. Receiver Part



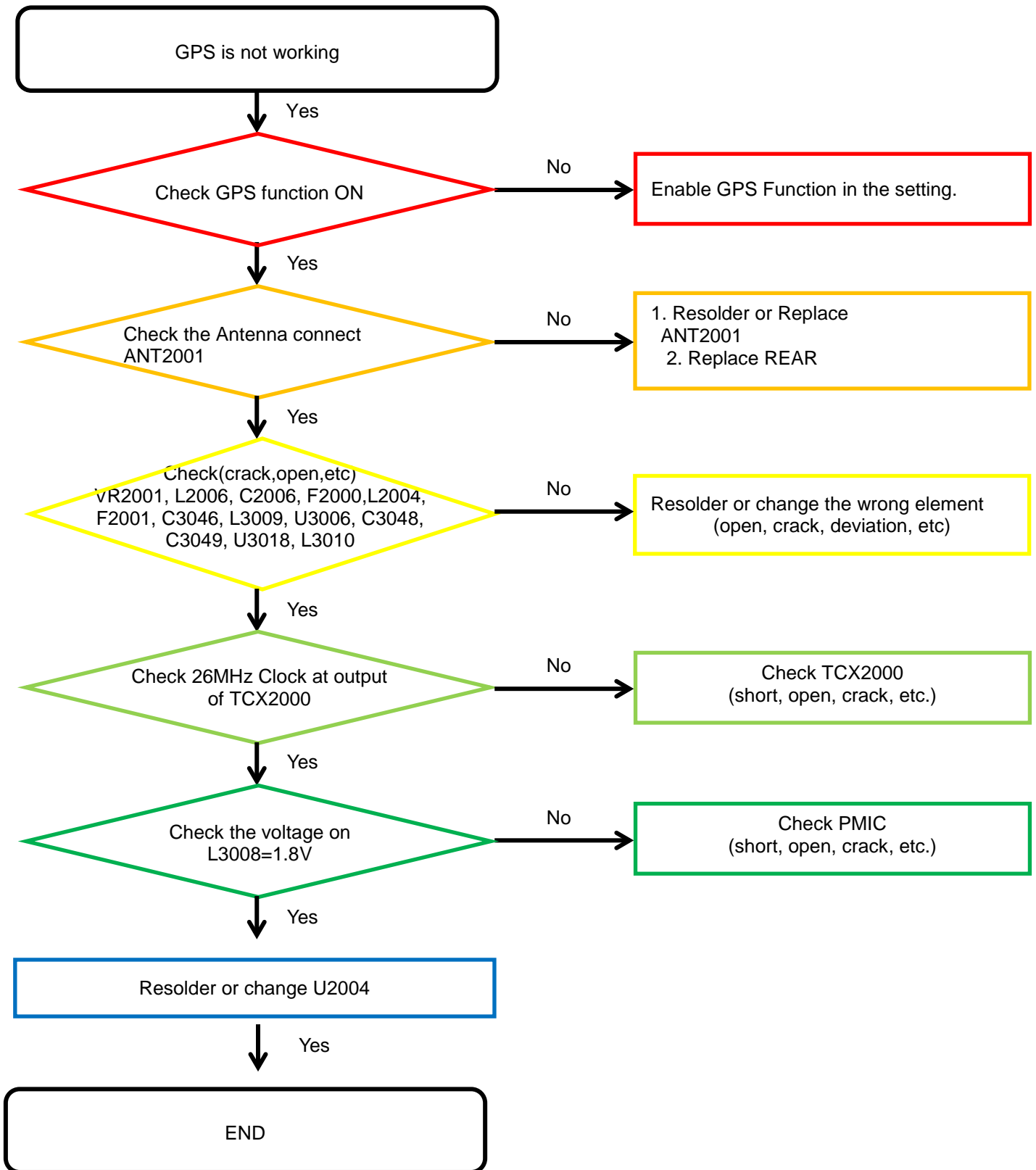
8. Level 3 Repair

8-4-12. BT/WIFI



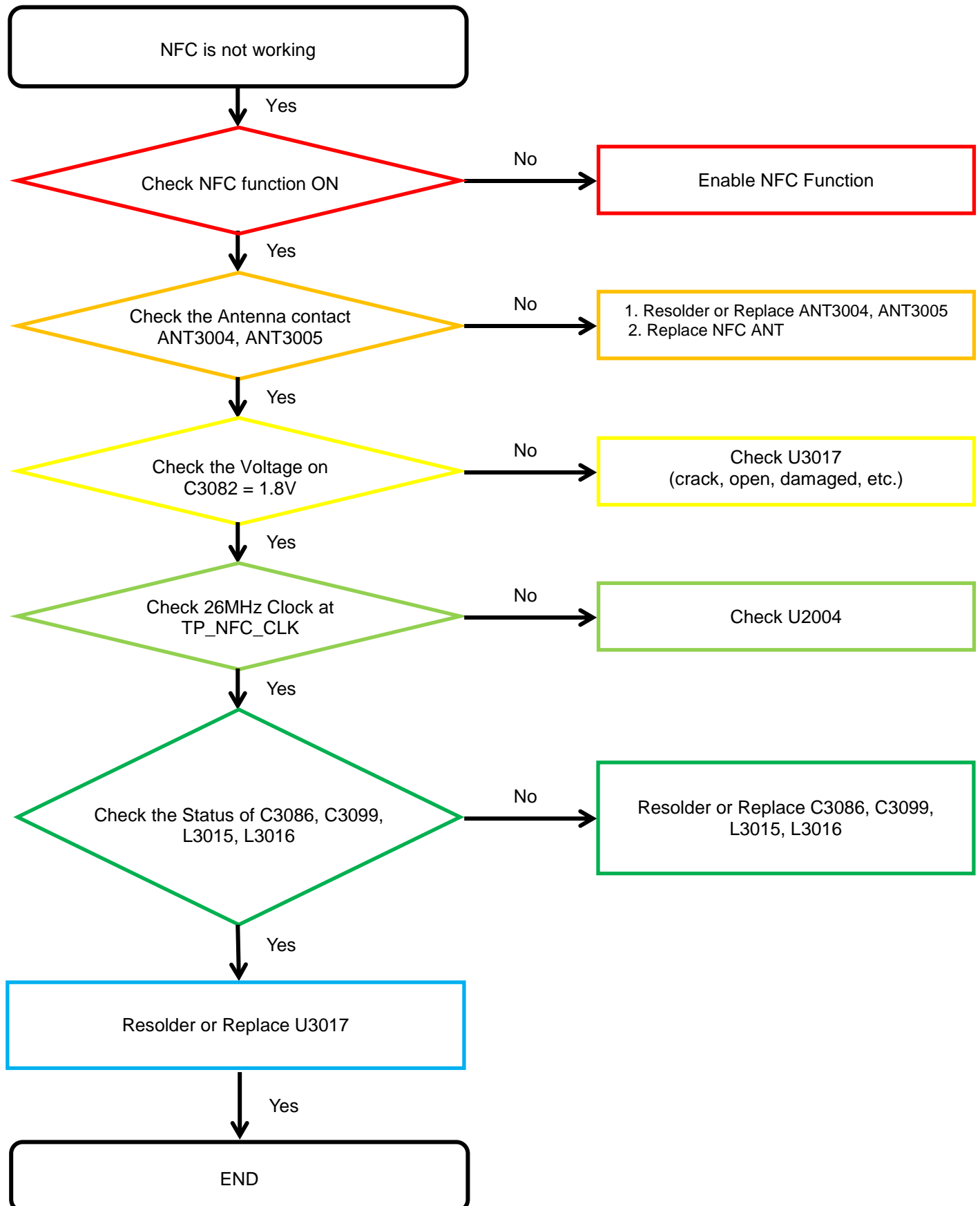
8. Level 3 Repair

8-4-13. GPS



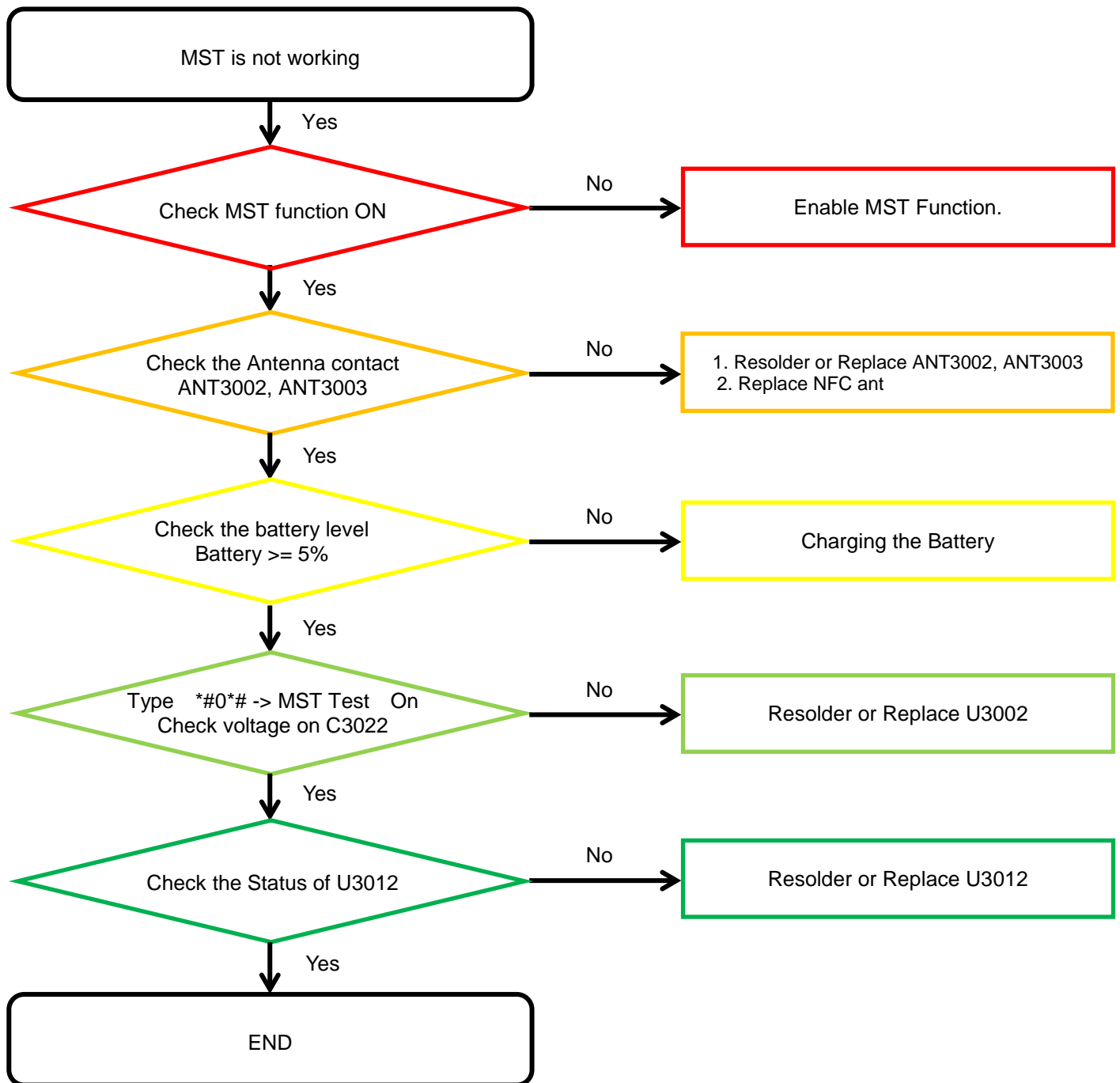
8. Level 3 Repair

8-4-14. NFC



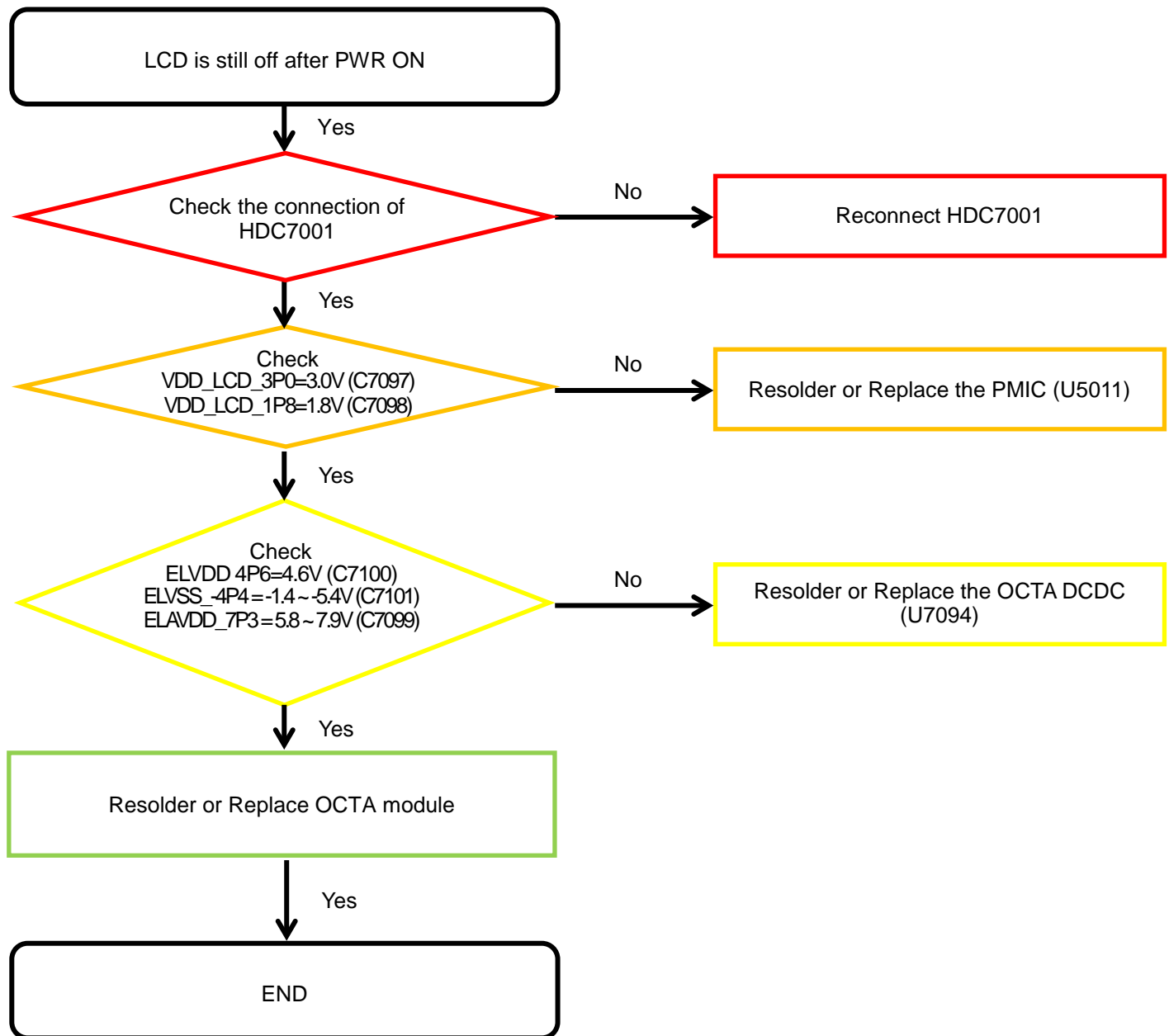
8. Level 3 Repair

8-4-15. MST



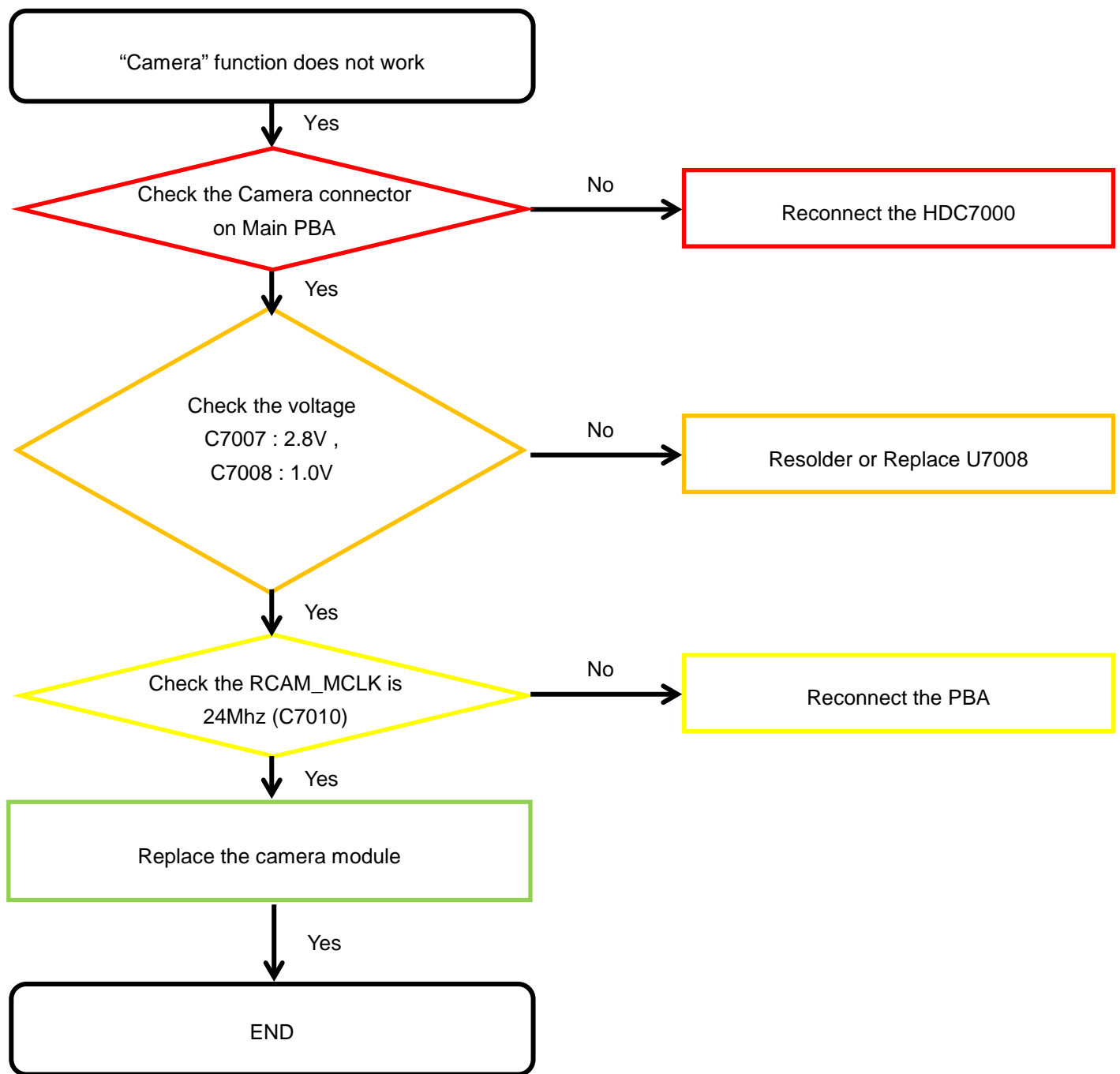
8. Level 3 Repair

8-4-16. Display



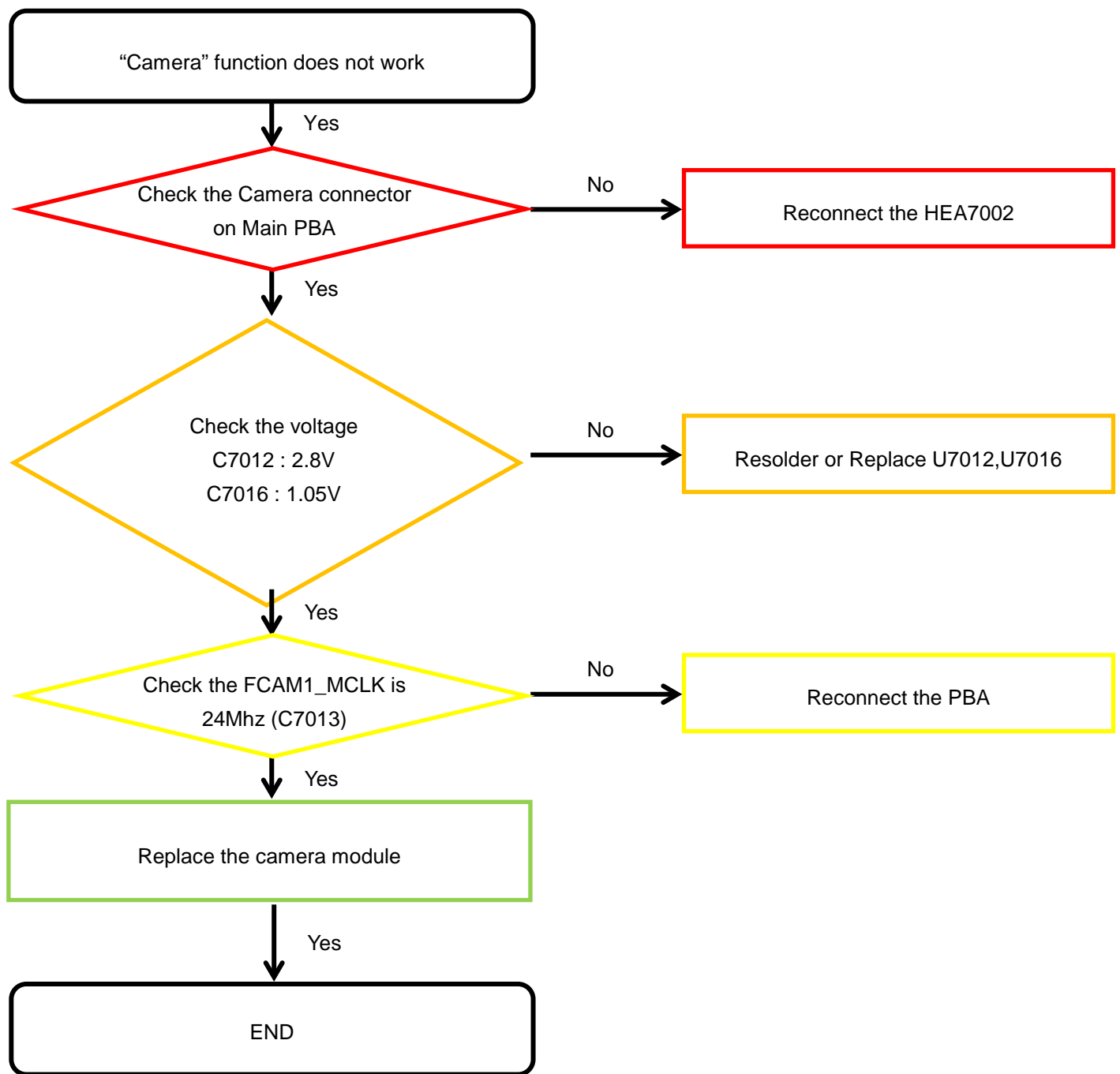
8. Level 3 Repair

8-4-17. REAR CAMERA



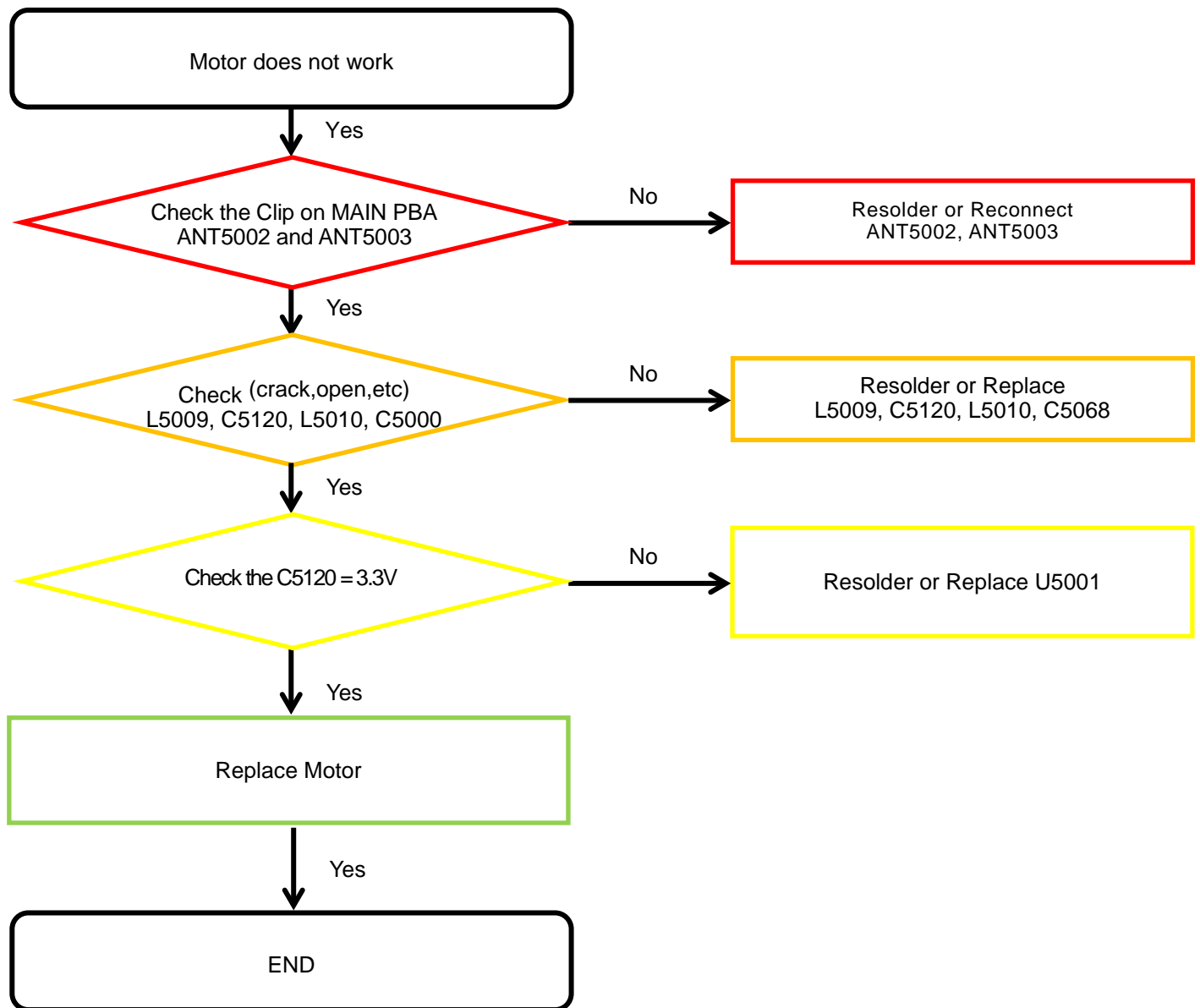
8. Level 3 Repair

8-4-18. FRONT CAMERA



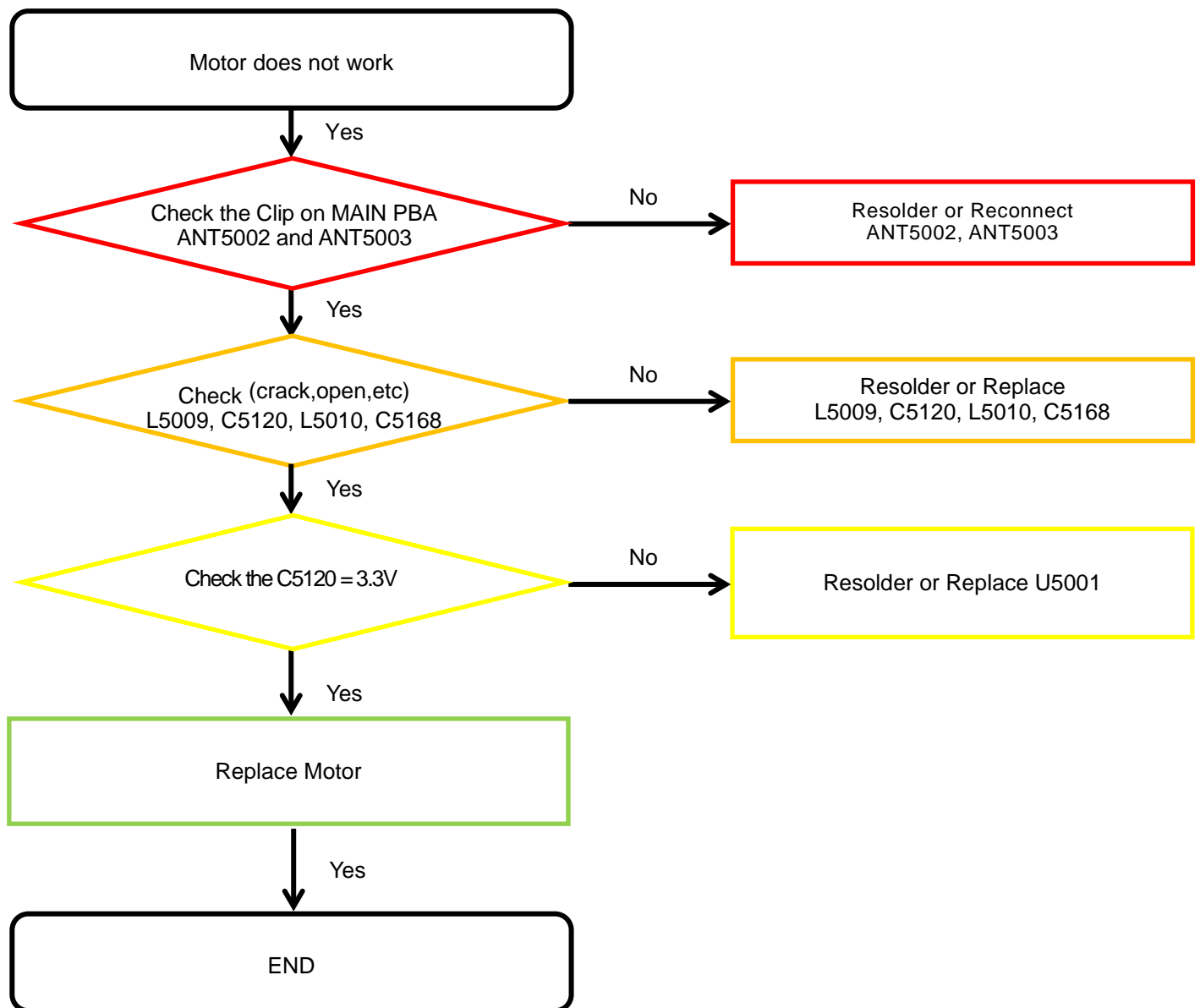
8. Level 3 Repair

[SM-A530F] 8-4-19-1. Motor



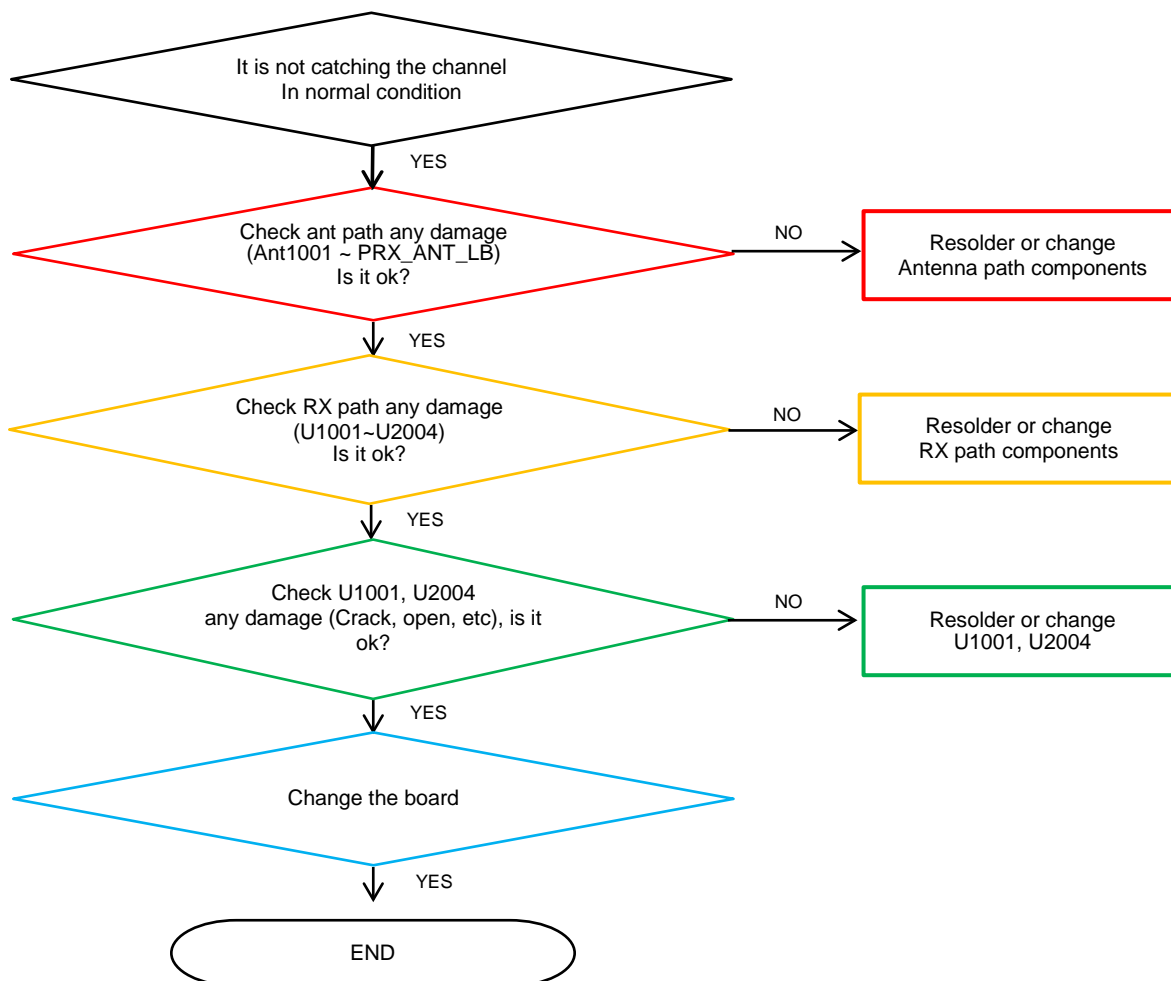
8. Level 3 Repair

[SM-A530W] 8-4-19-2. Motor



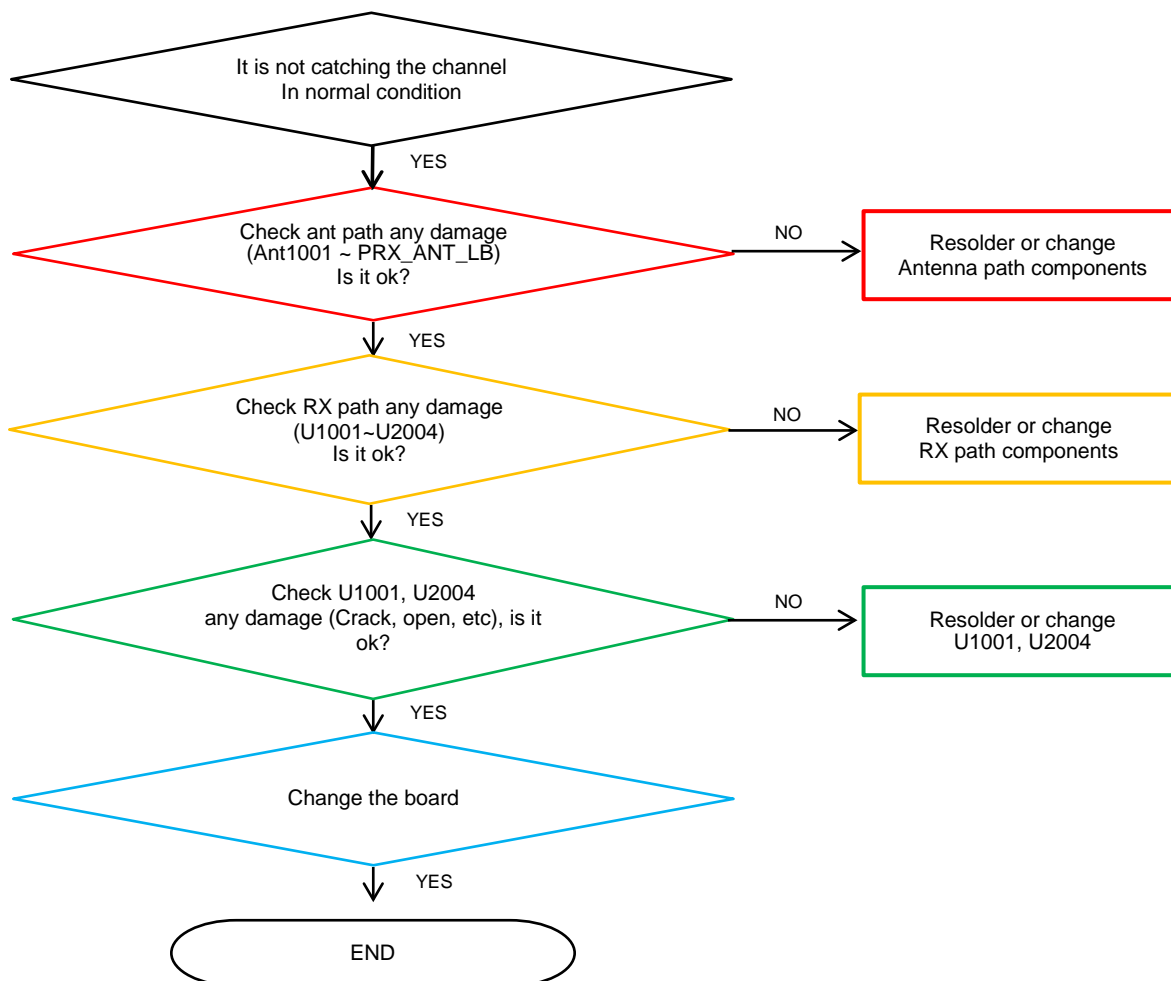
8. Level 3 Repair

[SM-A530F] 8-4-20. GSM 850/900, WCDMA B5/8, LTE B5/8/12/13/17/18/19/20/26/28 Rx



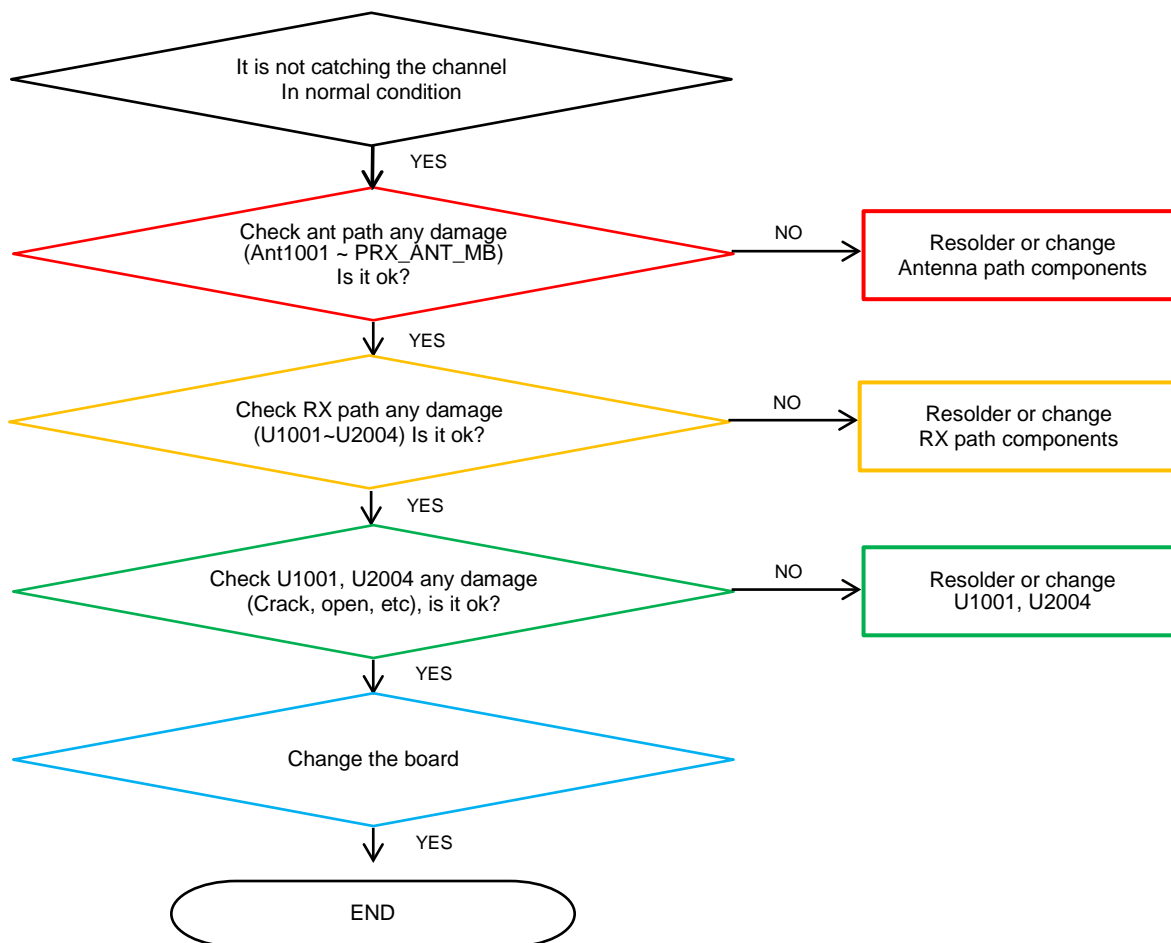
8. Level 3 Repair

[SM-A530W] 8-4-20. GSM 850/900, WCDMA B5/8, LTE B5/8/12/13/17/20/26 Rx



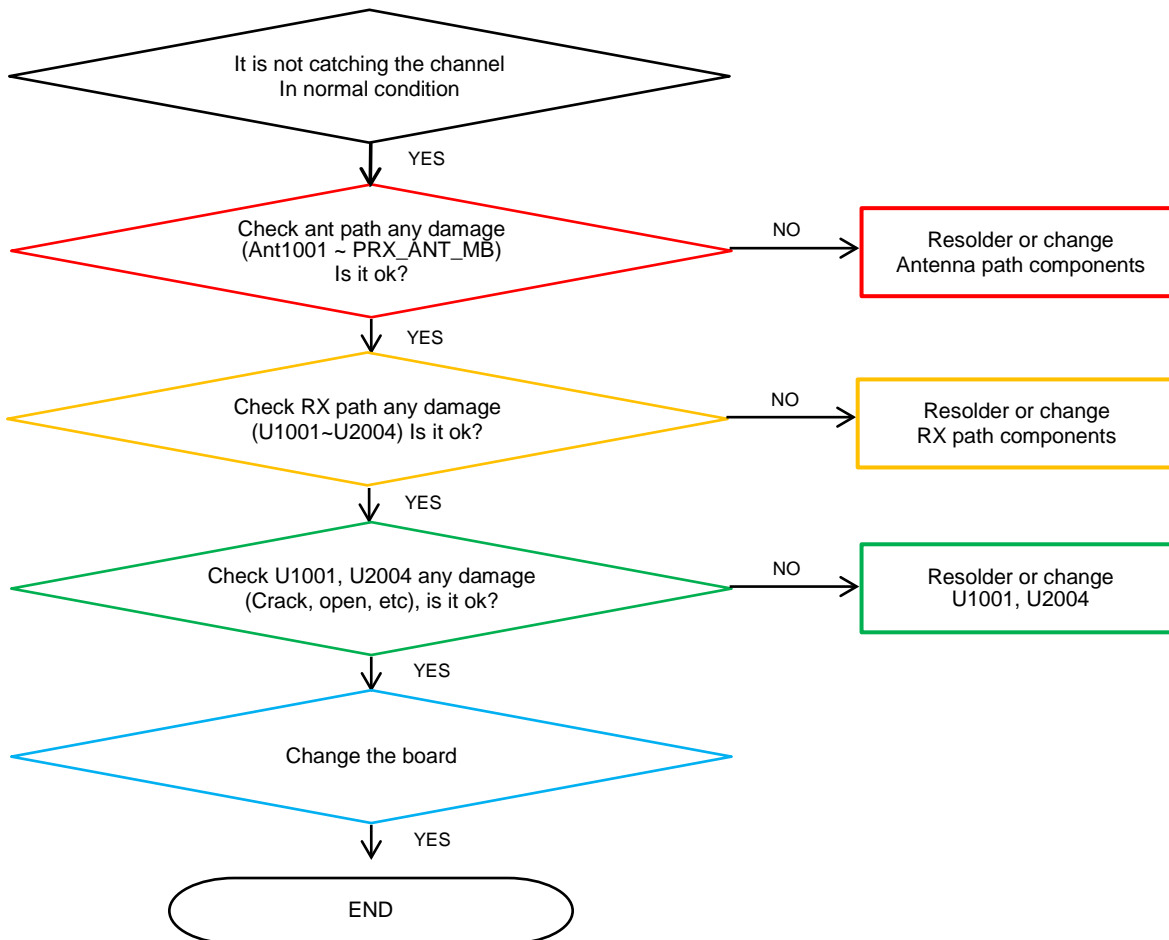
8. Level 3 Repair

[SM-A530F] 8-4-21-1. GSM DCS/PCS, WCDMA B1/2/4, LTE B1/2/3/4/66 Rx



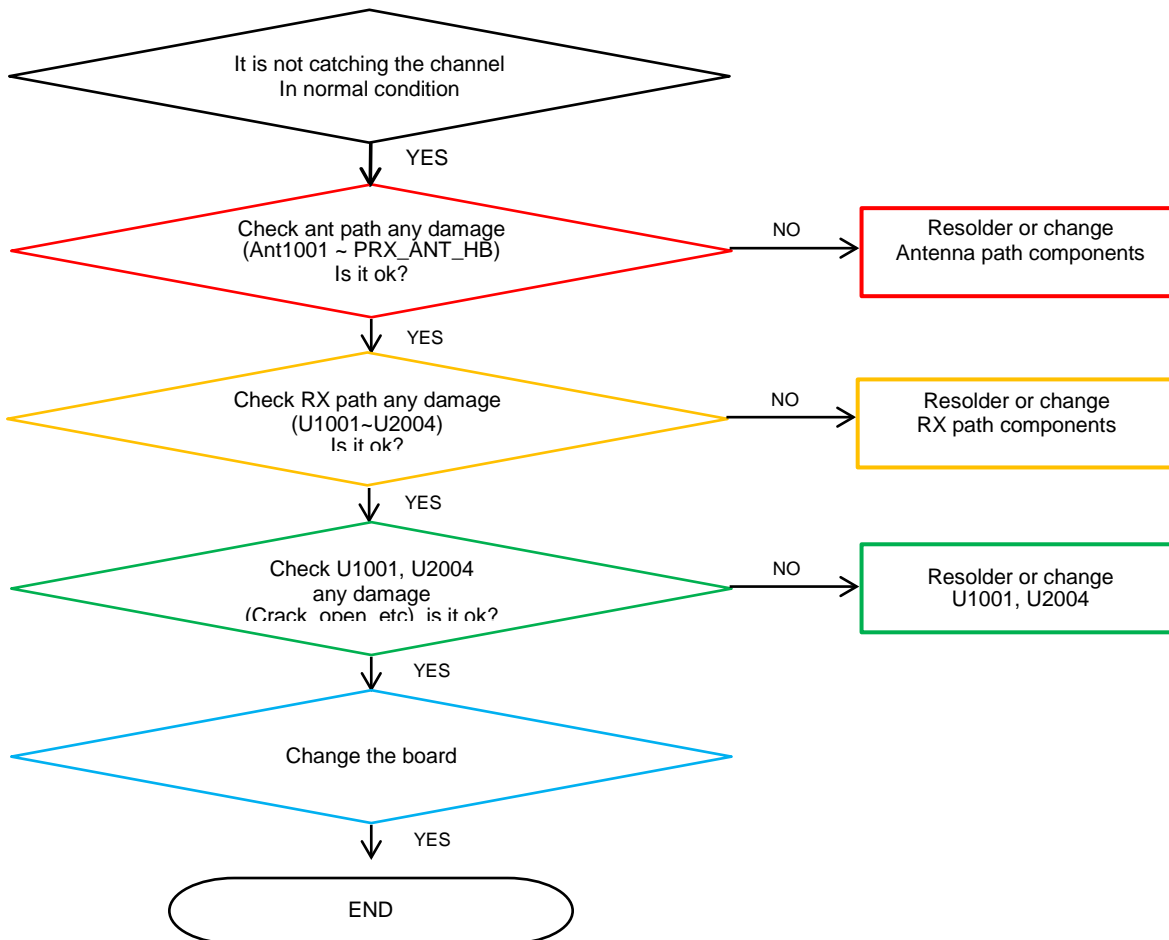
8. Level 3 Repair

[SM-A530W] 8-4-21-2. GSM DCS/PCS, WCDMA B1/2/4, LTE B1/2/3/4/66 Rx



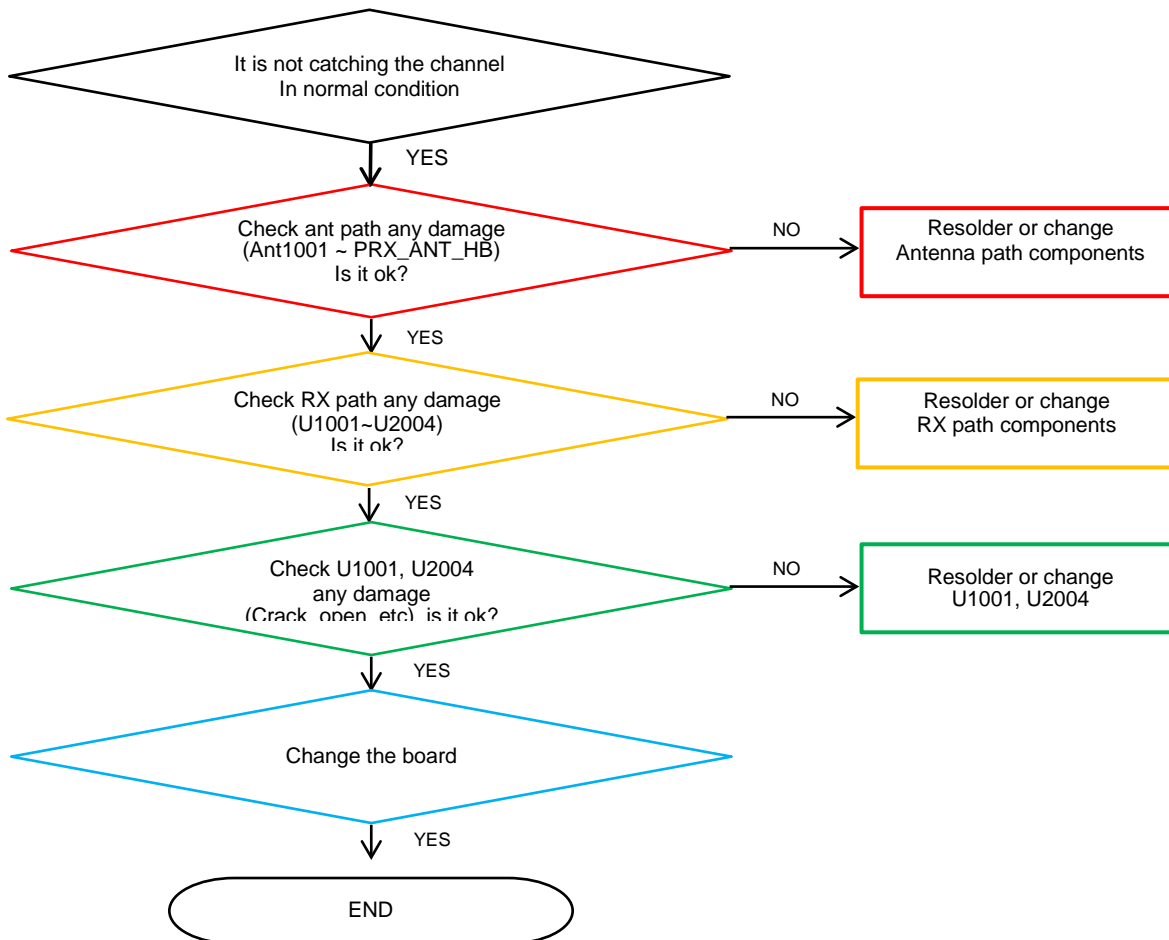
8. Level 3 Repair

[SM-A530F] 8-4-22. LTE B7/38/40/41 RX



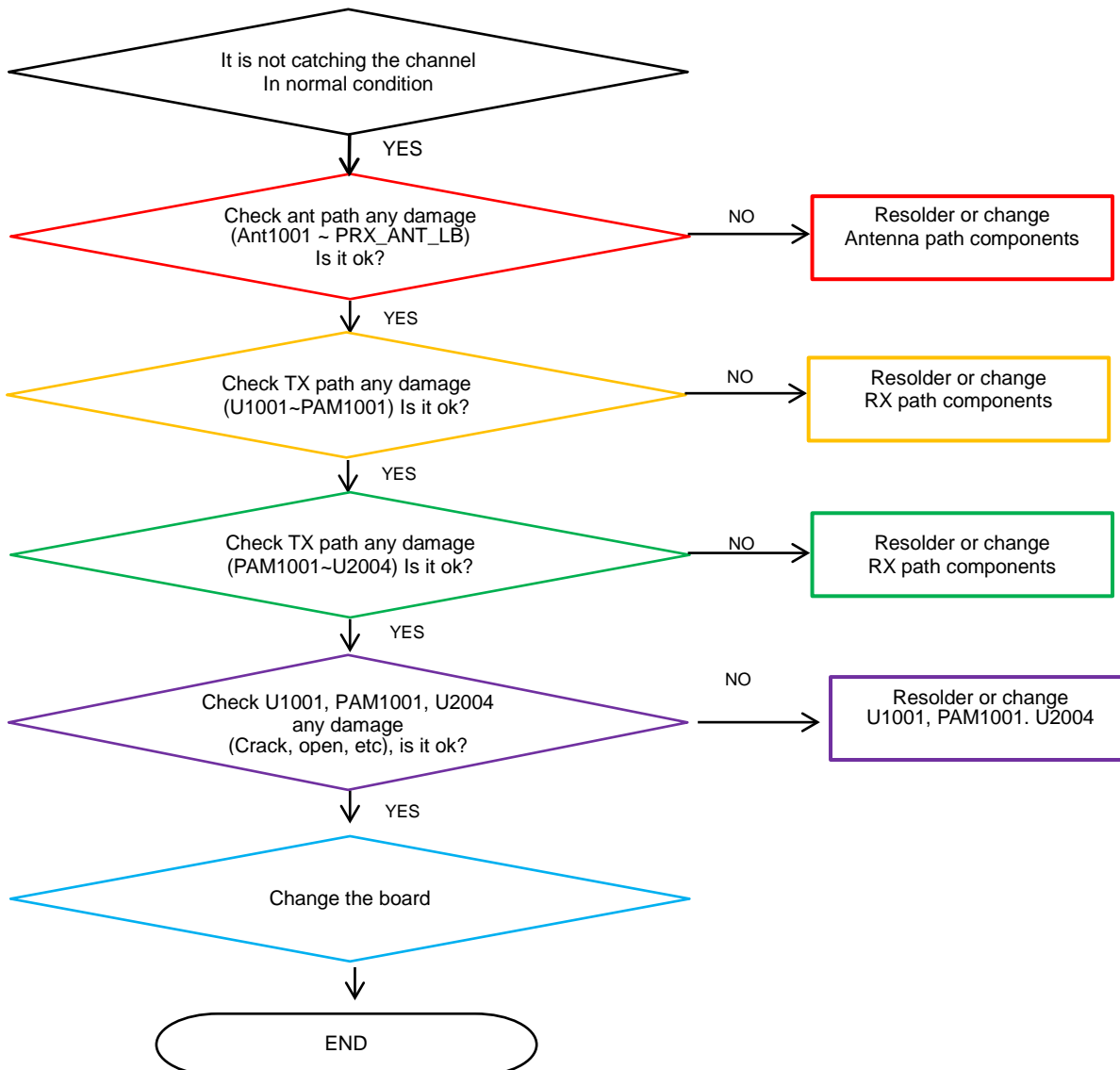
8. Level 3 Repair

[SM-A530W] 8-4-22. LTE B7 RX



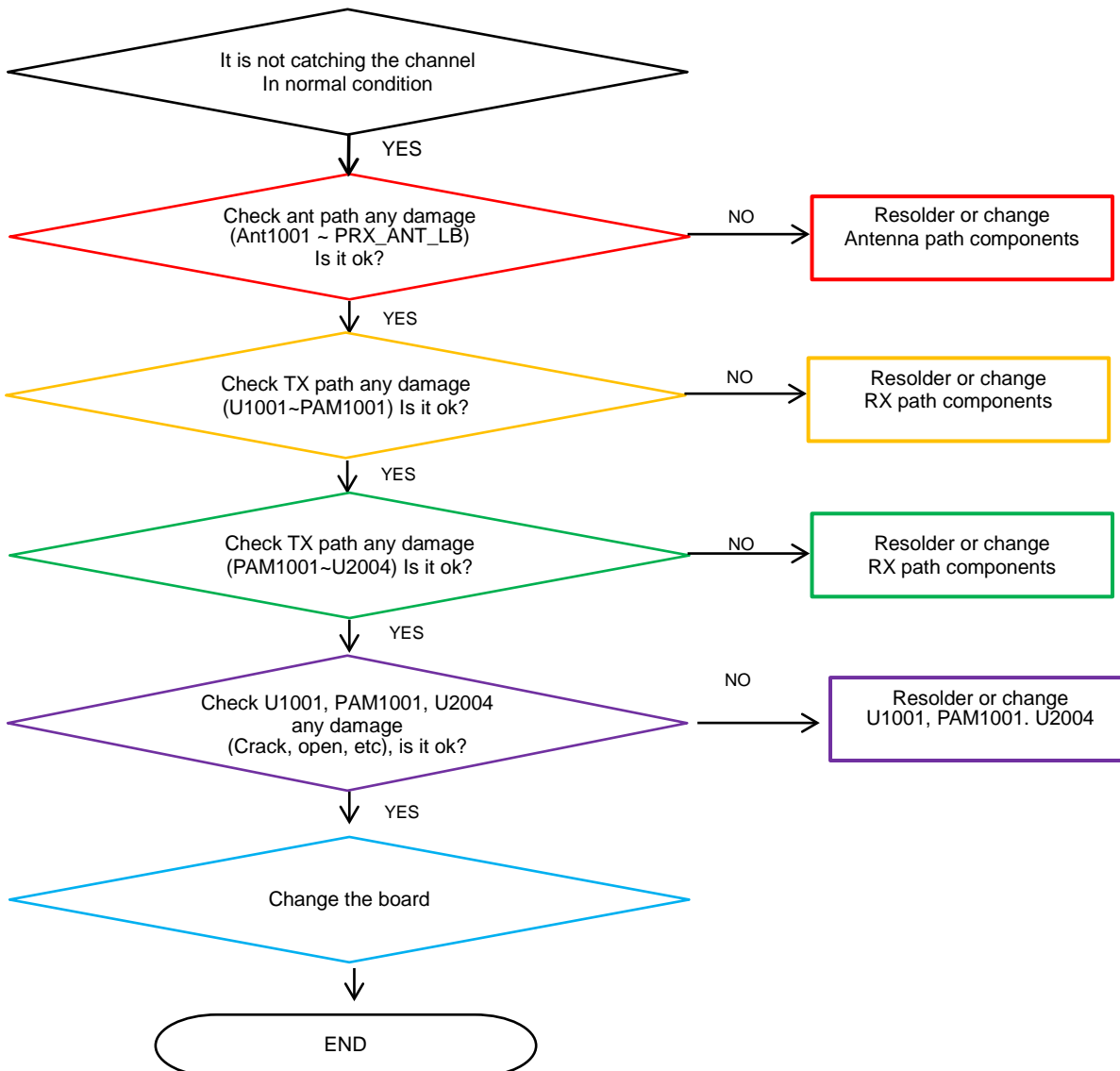
8. Level 3 Repair

[SM-A530F] 8-4-23. GSM 850/900, WCDMA B5/8, LTE B5/8/12/13/17/18/19/20/26/28 Tx



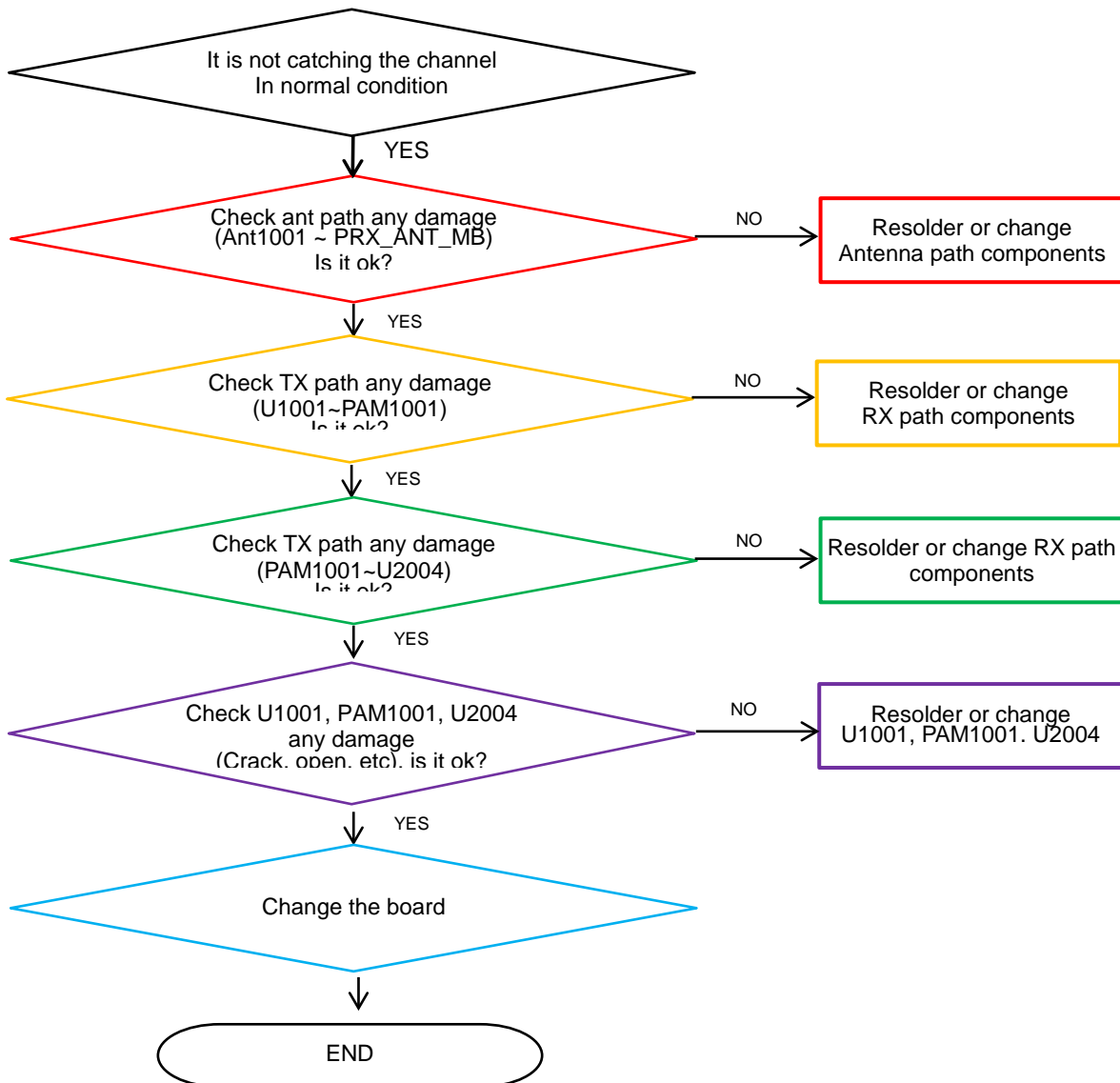
8. Level 3 Repair

[SM-A530W] 8-4-23. GSM 850/900, WCDMA B5/8, LTE B5/8/12/13/17/20/26 Tx



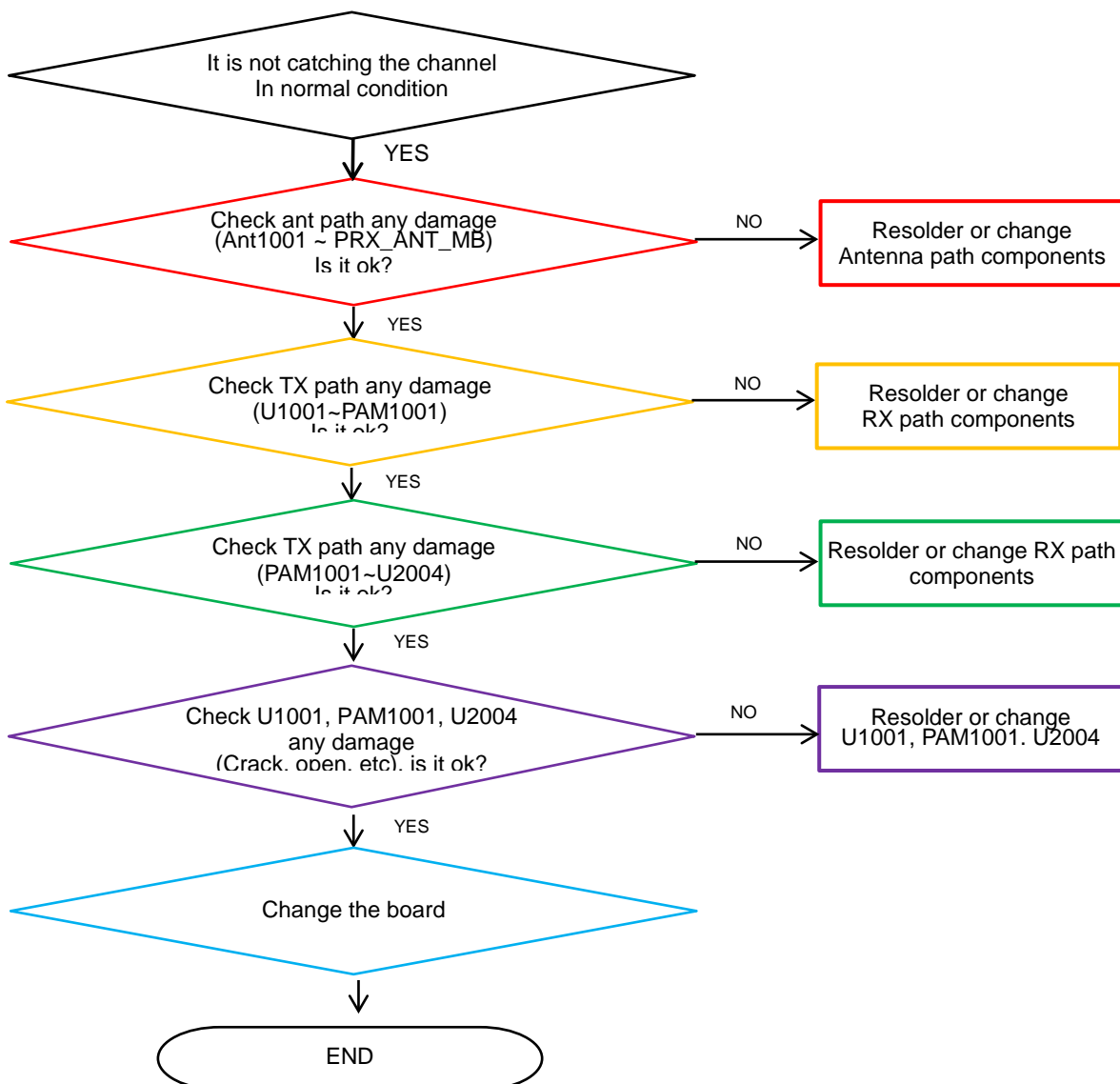
8. Level 3 Repair

[SM-A530F] 8-4-24. GSM DCS/PCS, WCDMA B1/2/4, LTE B1/2/3/4/66 Tx



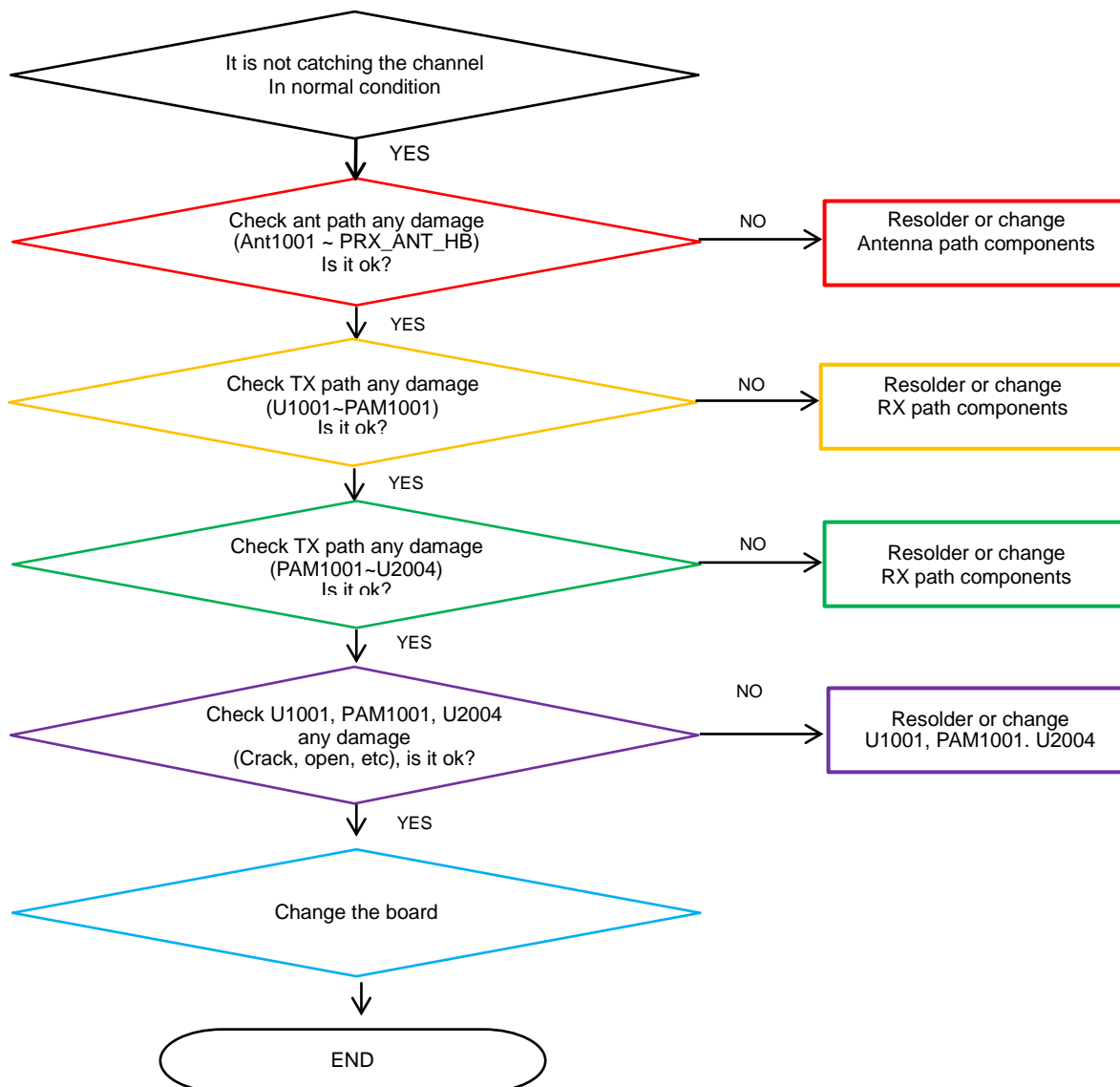
8. Level 3 Repair

[SM-A530W] 8-4-24. GSM DCS/PCS, WCDMA B1/2/4, LTE B1/2/3/4/66 Tx



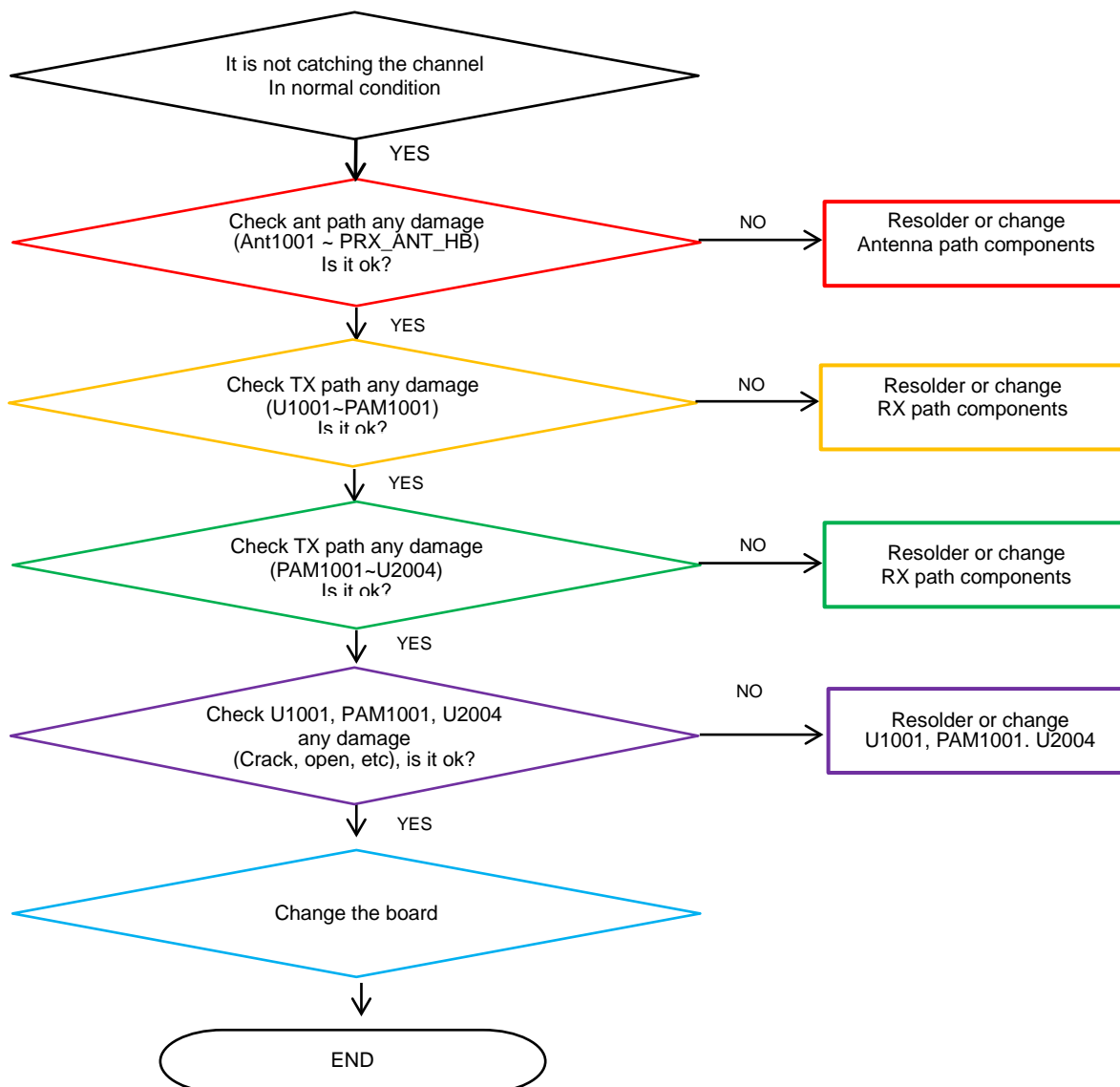
8. Level 3 Repair

[SM-A530F] 8-4-25. LTE B7/38/40/41 TX



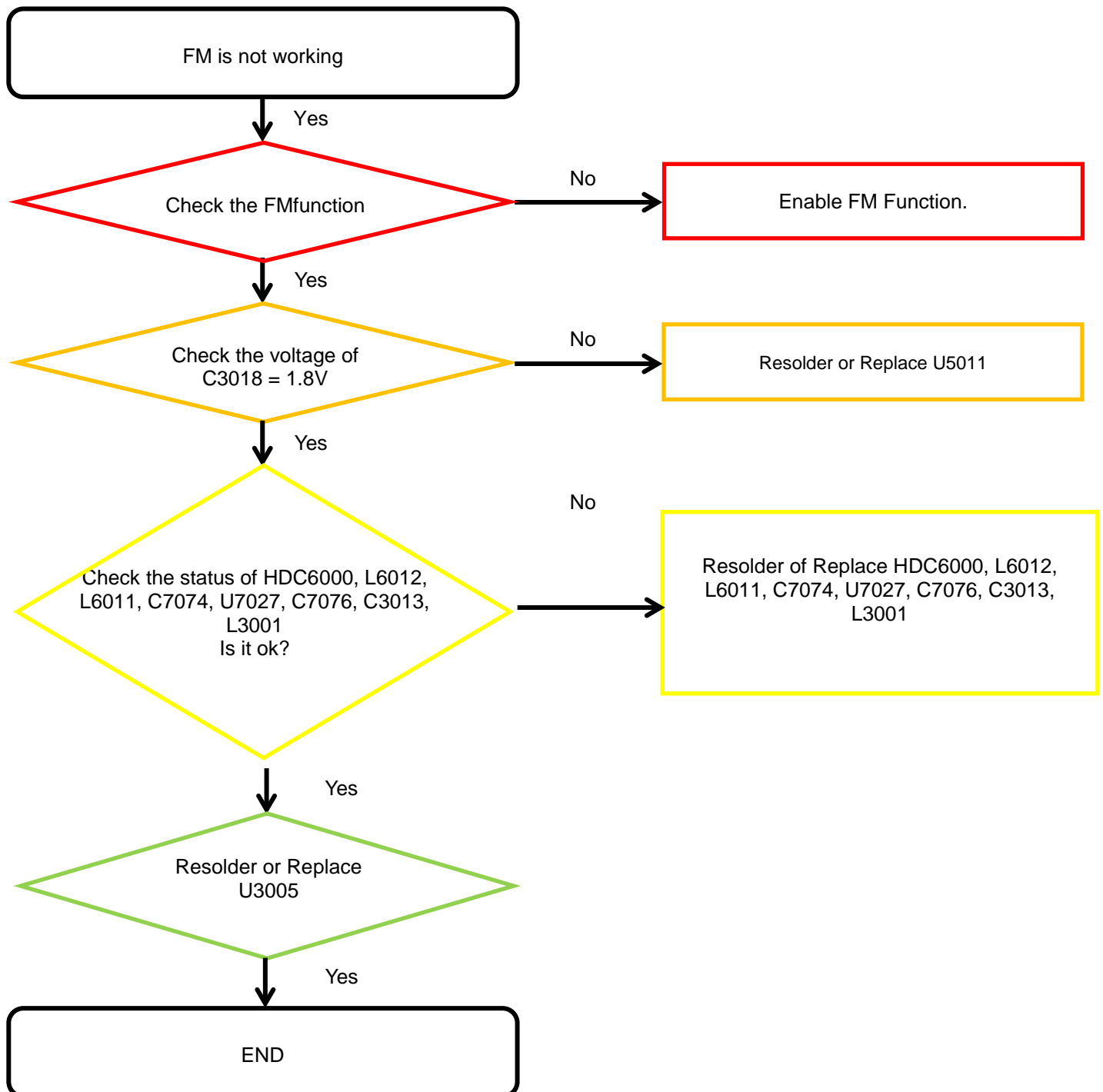
8. Level 3 Repair

[SM-A530W] 8-4-25. LTE B7 TX



8. Level 3 Repair

8-4-26. FM radio part



9. Reference Abbreviate

Reference Abbreviate

- **AAC**: Advanced Audio Coding.
- **AVC** : Advanced Video Coding.
- **BER** : Bit Error Rate
- **BPSK**: Binary Phase Shift Keying
- **CA** : Conditional Access
- **CDM** : Code Division Multiplexing
- **C/I** : Carrier to Interference
- **DMB** : Digital Multimedia Broadcasting
- **EN** : European Standard
- **ES** : Elementary Stream
- **ETSI**: European Telecommunications Standards Institute
- **MPEG**: Moving Picture Experts Group
- **PN** : Pseudo-random Noise
- **PS** : Pilot Symbol
- **QPSK**: Quadrature Phase Shift Keying
- **RS** : Reed-Solomon
- **SI** : Service Information
- **TDM** : Time Division Multiplexing
- **TS** : Transport Stream

SAMSUNG