

SAMSUNG

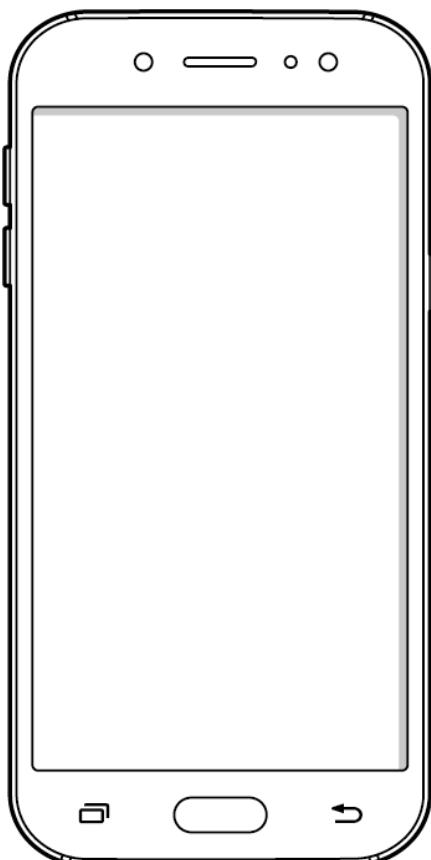
Mobile Device SM-J530FM/F/GM/G/ YM/Y Common

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. Radio Frequency & Channel

1) LTE BAND frequency

① SM-J530FM/F

Equa.	Freq. Range	CH Range
FUL = FUL_low+0.1(NUL-NOffs-UL)	LB1 : 1920 ~ 1980 LB3 : 1710 ~ 1785 LB5 : 824 ~ 849 LB7 : 2500 ~ 2570 LB8 : 880 ~ 915 LB20 : 832 ~ 862 LB40 : 2300 ~ 2400	18000≤N≤18599 19200≤N≤19949 20400≤N≤20649 20750≤N≤21449 21450≤N≤21799 24150≤N≤24449 38650≤N≤39649
FDL = FDL_low+0.1(NDL-NOffs-DL)	LB1 : 2110 ~ 2170 LB3 : 1805 ~ 1880 LB5 : 869 ~ 894 LB7 : 2620 ~ 2690 LB8 : 925 ~ 960 LB20 : 791 ~ 821 LB40 : 2300 ~ 2400	0≤N≤599 1200≤N≤1949 2400≤N≤2649 2750≤N≤3449 3450≤N≤3799 6150≤N≤6449 38650≤N≤39649

② SM-J530GM/G/YM/Y

Equa.	Freq. Range	CH Range
FUL = FUL_low+0.1(NUL-NOffs-UL)	LB1 : 1920 ~ 1980 LB2 : 1850 ~ 1910 LB3 : 1710 ~ 1785 LB4 : 1710 ~ 1755 LB5 : 824 ~ 849 LB7 : 2500 ~ 2570 LB8 : 880 ~ 915 LB17 : 704 ~ 716 LB20 : 832 ~ 862 LB28 : 703 ~ 748 LB38 : 2570 ~ 2620 LB40 : 2300 ~ 2400 LB41 : 2496 ~ 2690	18000≤N≤18599 18600≤N≤19199 19200≤N≤19949 19950≤N≤20399 20400≤N≤20649 20750≤N≤21449 21450≤N≤21799 23730≤N≤23849 24150≤N≤24449 27210≤N≤27659 37750≤N≤38249 38650≤N≤39649 39650≤N≤41589
FDL = FDL_low+0.1(NDL-NOffs-DL)	LB1 : 2110 ~ 2170 LB2 : 1930 ~ 1990 LB3 : 1805 ~ 1880 LB4 : 2110 ~ 2155 LB5 : 869 ~ 894 LB7 : 2620 ~ 2690 LB8 : 925 ~ 960 LB17 : 734 ~ 746 LB20 : 791 ~ 821	0≤N≤599 600≤N≤1199 1200≤N≤1949 1950≤N≤2399 2400≤N≤2649 2750≤N≤3449 3450≤N≤3799 5730≤N≤5849 6150≤N≤6449

2. Specification

	LB28 : 758 ~ 803 LB38 : 2570 ~ 2620 LB40 : 2300 ~ 2400 LB41 : 2496 ~ 2690	9210≤N≤9659 37750≤N≤38249 38650≤N≤39649 39650≤N≤41589
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2) WCDMA BAND frequency

Equa.	Freq. Range	CH Range
Tx = N*0.2	WB1 : 1920 ~ 1980	9612≤N≤9888
	WB2 : 1850 ~ 1910	9262≤N≤9538
	WB4 : 1710 ~ 1755	1312≤N≤1513
	WB5 : 824 ~ 849	4132≤N≤4233
	WB8 : 880 ~ 915	2712≤N≤2863
Rx = N*0.2	WB1 : 2110 ~ 2170	10562≤N≤10838
	WB2 : 1930 ~ 1990	9662≤N≤9938
	WB4 : 2110 ~ 2155	1537≤N≤1738
	WB5 : 869 ~ 894	4357≤N≤4458
	WB8 : 925 ~ 960	2937≤N≤3088

3) GSM BAND frequency

Equa.	Freq. Range	CH Range
Tx = 824.2+0.2*(N-128)	GSM850 : 824 ~ 849	128≤N≤251
	GSM900 : 880 ~ 915	975≤N≤1023
	DCS : 1710 ~ 1785	512≤N≤885
	PCS : 1850 ~ 1910	512≤N≤810
Rx = 869.2+0.2*(N-128)	GSM850 : 869 ~ 894	128≤N≤251
	GSM900 : 925 ~ 960	975≤N≤1023
	DCS : 1805 ~ 1880	512≤N≤885
	PCS : 1930 ~ 1990	512≤N≤810

2. Specification

2-2. GSM / WCDMA / LTE General Specification

1) GSM BAND

		GSM 850	GSM 900	DCS1800	PCS1900
Freq. Band[MHz] Uplink/Downlink		824~849 869~894	880~915 925~960 0~124 & 975~1023	1710~1785 1805~1880	1850~1910 1930~1990
ARFCN range		128~251		512~885	512~810
Tx/Rx spacing		45 MHz	45 MHz	95 MHz	80 MHz
Mod. Bit rate/ Bit Period	GRPS	270.833 Kbps 3.692 us	270.833 Kbps 3.692 us	270.833 Kbps 3.692 us	270.833 Kbps 3.692 us
Time Slot Period/Frame Period		576.9 us 4.615 ms	576.9 us 4.615 ms	576.9 us 4.615 ms	576.9 us 4.615 ms
Modulation	GRPS	0.3 GMSK	0.3 GMSK	0.3 GMSK	0.3 GMSK
MS Power	GRPS	33 dBm~5 dBm	33 dBm~5 dBm	30 dBm~0 dBm	30 dBm~0 dBm
Power Level	GRPS	5 pcl~19 pcl	5 pcl~19 pcl	0 pcl~15 pcl	0 pcl~15 pcl
Sensitivity		-102 dBm	-102 dBm	-100 dBm	-102 dBm
TDMA Mux		8	8	8	8
Cell Radius		3 Km	3 Km	2 Km	2 Km

2. Specification

2) WCDMA BAND

	WCDMA BAND1	WCDMA BAND2	WCDMA BAND4	WCDMA BAND5	WCDMA BAND8
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	9612~9888 10562~10838	9262~9538 9662~9938	1312~1513 1537~1738	781~4233 1006~4458	2712~2863 2937~3088
Tx/Rx spacing	190MHz	80MHz	400MHz	45MHz	45MHz
Mod. Bit rate/ Bit Period	3.84 Mcps/s				
Time Slot Period/Frame Period	10ms	10ms	10ms	10ms	10ms
Modulation	UL : HQPSK DL : QPSK				
MS Power	Max:23.0dBm (+1~-3)dBm Min:<-50dBm	Max:22.0dBm (+1~-3)dBm Min:<-50dBm	Max:21.5dBm (+1~-3)dBm Min:<-50dBm	Max:23.0dBm (+1~-3)dBm Min:<-50dBm	Max:23.0dBm (+1~-3)dBm Min:<-50dBm
Power Level	Class3	Class3	Class3	Class3	Class3
Sensitivity	-106.7dBm	-104.7dBm	-104.7dBm	-104.7dBm	-104.7dBm
TDMA Mux	-	-	-	-	-
Cell Radius	-	-	-	-	-

2. Specification

3) LTE BAND

① SM-J530FM/F

	LTE BAND1	LTE BAND3	LTE BAND5	LTE BAND7	LTE BAND8	LTE BAND20	LTE BAND40
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	832~862 791~821	2300~2400 2300~2400
ARFCN range	18000~18599 0~599	19200 ~ 19949 1200~1949	20400~20649 2400~2649	20750~21449 2750~3449	21450~21799 3450~3799	19250 ~ 19950 1250~1950	38650~39649 38650~39649
Tx/Rx spacing	190 MHz	95 MHz	45 MHz	120 MHz	45 MHz	41 MHz	
Mod. Bit rate/ Bit Period	9Mbps/s (at 10MHz BW,50RB)						
Time Slot Period/Frame Period	10ms						
Modulation	UL : QPSK 16QAM 64QAM DL : QPSK 16QAM 64QAM 256QAM						
MS Power	Max:22.5±2.7d Bm Min:-49dBm	Max:23±2.7dB m Min:-49dBm	Max:24±2.7dB m Min:-49dBm	Max:23±2.7dB m Min:-49dBm	Max:24±2.7dB m Min:-49dBm	Max:24±2.7dB m Min:-49dBm	Max:23±2.7dB m Min:-49dBm
Power Level	Class3						
Sensitivity	-97dBm	-94dBm	-95dBm	-95dBm	-94dBm	-94dBm	-97dBm
TDMA Mux	-	-	-	-	-	-	-
Cell Radius	-	-	-	-	-	-	-

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2. Specification

② SM-J530GM/G/YM/Y

	LTE BAND1	LTE BAND2	LTE BAND3	LTE BAND4	LTE BAND5	LTE BAND7	LTE BAND8
Freq. Band[MHz] Uplink/Downlink	1920~1980 2110~2170	1850~1910 1930~1990	1710 ~ 1785 1805 ~ 1880	1710~1755 2110~2155	824~849 869~894	2500~2570 2620~2690	880~915 925~960
ARFCN range	18000~18599 0~599	18600~19199 600~1199	19200 ~ 19949 1200~1949	19950~20399 1950~2399	20400~20649 2400~2649	20750~21449 2750~3449	21450~21799 3450~3799
Tx/Rx spacing	190 MHz	80 MHz	95 MHz	400 MHz	45 MHz	120 MHz	45 MHz
Mod. Bit rate/ Bit Period	9Mbps/s (at 10MHz BW,50RB)						
Time Slot Period/Frame Period	10ms						
Modulation	UL : QPSK 16QAM 64QAM DL : QPSK 16QAM 64QAM 256QAM						
MS Power	Max:22.5±2.7d Bm Min:-49dBm	Max:22.5±2.7d Bm Min:-49dBm	Max:23±2.7dB m Min:-49dBm	Max:23±2.7dB m Min:-49dBm	Max:24±2.7dB m Min:-49dBm	Max:23±2.7dB m Min:-49dBm	Max:24±2.7dB m Min:-49dBm
Power Level	Class3						
Sensitivity	-97dBm	-95dBm	-94dBm	-97dBm	-95dBm	-95dBm	-94dBm
TDMA Mux	-		-				-
Cell Radius	-		-				-

2. Specification

	LTE BAND17	LTE BAND20	LTE BAND28	LTE BAND38	LTE BAND40	LTE BAND41
Freq. Band[MHz] Uplink/Downlink	704~716 734~746	832~862 791~821	703~748 758~803	2570~2620 2570~2620	2300~2400 2300~2400	2496~2690 2496~2690
ARFCN range	23730~23849 5730~5849	19250 ~ 19950 1250~1950	20400~20650 2400~2650	37750~38249 37750~38249	38650~39649 38650~39649	39650~41589 39650~41589
Tx/Rx spacing	30 MHz	41 MHz	55 MHz			
Mod. Bit rate/ Bit Period	9Mbps/s (at 10MHz BW,50RB)					
Time Slot Period/Frame Period	10ms	10ms	10ms	10ms	10ms	10ms
Modulation	UL : QPSK 16QAM 64QAM DL : QPSK 16QAM 64QAM 256QAM					
MS Power	Max:24±2.7dBm Min:-49dBm	Max:24±2.7dBm Min:-49dBm	Max:23.5±2.7dBm Min:-49dBm	Max:23±2.7dBm Min:-49dBm	Max:23±2.7dBm Min:-49dBm	Max:23±2.7dBm Min:-49dBm
Power Level	Class3	Class3	Class3	Class3	Class3	Class3
Sensitivity	-94dBm	-94dBm	-95.5dBm	-97dBm	-97dBm	-95dBm
TDMA Mux	-	-			-	
Cell Radius	-	-			-	

2. Specification

2-3. GSM BAND TX power control level

TX Power control level	GSM850	GSM900	TX Power control level	DCS1800	TX Power control level	PCS1900
5	33±2 dBm	33±2 dBm	0	30±2 dBm	0	30±2 dBm
6	31±3 dBm	31±3 dBm	1	28±3 dBm	1	28±3 dBm
7	29±3 dBm	29±3 dBm	2	26±3 dBm	2	26±3 dBm
8	27±3 dBm	27±3 dBm	3	24±3 dBm	3	24±3 dBm
9	25±3 dBm	25±3 dBm	4	22±3 dBm	4	22±3 dBm
10	23±3 dBm	23±3 dBm	5	20±3 dBm	5	20±3 dBm
11	21±3 dBm	21±3 dBm	6	18±3 dBm	6	18±3 dBm
12	19±3 dBm	19±3 dBm	7	16±3 dBm	7	16±3 dBm
13	17±3 dBm	17±3 dBm	8	14±3 dBm	8	14±3 dBm
14	15±3 dBm	15±3 dBm	9	12±4 dBm	9	12±4 dBm
15	13±3 dBm	13±3 dBm	10	10±4 dBm	10	10±4 dBm
16	11±5 dBm	11±5 dBm	11	8±4 dBm	11	8±4 dBm
17	9±5 dBm	9±5 dBm	12	6±4 dBm	12	6±4 dBm
18	7±5 dBm	7±5 dBm	13	4±4 dBm	13	4±4 dBm
19	5±5 dBm	5±5 dBm	14	2±5 dBm	14	2±5 dBm
-	-	-	15	0±5 dBm	15	0±5 dBm

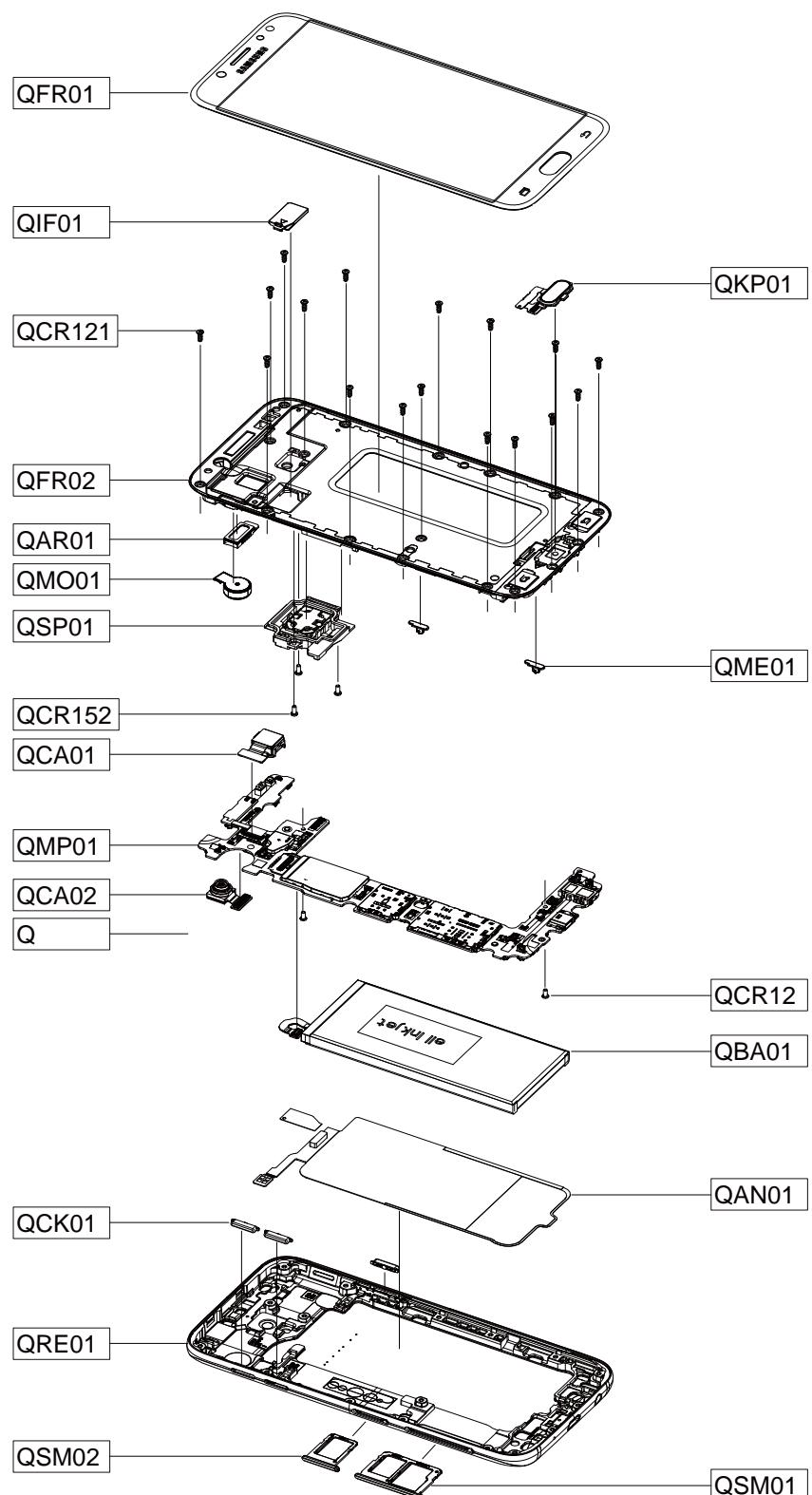
3. Operation Instruction and Installation

Main Function

Item	Description
OS	Android V7.0.1 (Nougat)
RF	LTE Cat.6 (300/ 50Mbps)
Battery	3,000mAh
Base Band	Exynos7870 1.6GHz (Octa-Core)
Other RF	A-GPS, Glonass, BT4.1, USB 2.0, NFC, WIFI 802.11 a/b/g/n/ac 2.4+5GHz, MST
Camera	13M+13M Camera
LCD	5.2" FHD OCTA
SM-J530FM/F RAM	2GB RAM + 16GB eMMC
SM-J530GM/G RAM	2GB RAM + 16GB/32GB eMMC
SM-J530YM RAM	3GB RAM + 16GB/32GB eMMC
SM-J530Y RAM	3GB RAM + 32GB eMMC
Sensor	Accelerometer, Fingerprint Sensor, Gyro Sensor, Geomagnetic Sensor, Light Sensor, Proximity Sensor, RGB Sensor
Accessory	Charger: 5V/1.55A Data cable : 0.8M USB-A Ear phone: 3.5pi, 4pin Ejection Pin

4. Exploded View and Parts List

4-1. Cellular phone Exploded View



※ SVC REPAIR TAPE
QRT01, QRT02, QRT03
QRT04

5. MAIN Electrical Parts List

Parts Code	Design Loc	Description
0202-002125	R3003	SOLDER-SHORT
0202-002125	R5011	SOLDER-SHORT
0202-002125	R7005	SOLDER-SHORT
0202-002125	R7016	SOLDER-SHORT
0404-001972	D5003	DIODE-SCHOTTKY
0404-001972	D5004	DIODE-SCHOTTKY
0406-001316	ZD5004	DIODE-TVS
0406-001316	ZD5012	DIODE-TVS
0406-001459	ZD6002	DIODE-TVS
0406-001459	ZD6004	DIODE-TVS
0406-001459	ZD6007	DIODE-TVS
0406-001459	ZD6010	DIODE-TVS
0406-001459	ZD6017	DIODE-TVS
0406-001459	ZD6020	DIODE-TVS
0406-001542	ZD6001	DIODE-TVS
0406-001592	ZD5003	DIODE-TVS
0406-001592	ZD7002	DIODE-TVS
0406-001625	ZD6035	DIODE-TVS
0406-001640	ZD5001	DIODE-TVS
0406-001640	ZD5002	DIODE-TVS
0406-001659	ZD3000	DIODE-TVS
0406-001659	ZD3001	DIODE-TVS
0406-001675	ZD2000	DIODE-TVS
0406-001682	ZD6023	DIODE-TVS
0406-001709	ZD5014	DIODE-TVS
0406-001709	ZD6000	DIODE-TVS
0406-001709	ZD6019	DIODE-TVS
0406-001709	ZD6022	DIODE-TVS
0406-001728	ZD3002	DIODE-TVS
0406-001728	ZD5000	DIODE-TVS
0406-001743	ZD5005	DIODE-TVS
0406-001743	ZD5006	DIODE-TVS
0406-001743	ZD5007	DIODE-TVS
0406-001743	ZD5008	DIODE-TVS
0406-001743	ZD5009	DIODE-TVS
0406-001743	ZD5010	DIODE-TVS
0406-001781	ZD6018	DIODE-TVS
0406-001781	ZD6021	DIODE-TVS

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5. MAIN Electrical Parts List

0406-001781	ZD6024	DIODE-TVS
0406-001787	ZD6006	DIODE-TVS
0406-001787	ZD6008	DIODE-TVS
0505-002088	Q5000	FET-SILICON
0505-002341	Q5001	FET-SILICON
0601-003547	LED5001	LED
0601-003611	LED5000	LED
1001-001835	U3008	IC-RF SWITCH
1001-002022	U1006	IC-RF SWITCH
1001-002022	U1008	IC-RF SWITCH
1001-002022	U2010	IC-RF SWITCH
1001-002030	U1005	IC-RF SWITCH
1003-002805	U3001	IC-MOTOR DRIVER
1009-001066	U7004	IC-HALL EFFECT S/W
1105-002710	UCP400UP	IC-DDR3 SDRAM
1107-002548	UME5000	IC-EMMC
1201-003717	U2002	IC-IF/RF AMP
1201-003786	U3005	IC-GPS AMP
1201-003974	U1000	IC-IF/RF AMP
1201-004036	U3000	IC-IF/RF AMP
1201-004100	PAM2000	IC-POWER AMP
1201-004129	U2001	IC-POWER AMP
1201-004136	U6004	IC-AUDIO AMP
1203-007365	U3006	IC-DC/DC CONVERTER
1203-008527	U7007	IC-DC/DC CONVERTER
1203-008693	U1004	IC-DC/DC CONVERTER
1203-008711	U5004	IC-VOL. DETECTOR
1203-008719	U6003	IC-MULTI REG.
1203-008767	U5002	IC-POWER SUPERVISOR
1203-008859	U7002	IC-POSI.FIXED REG.
1203-008865	U7015	IC-POSI.FIXED REG.
1203-008867	U3010	IC-POSI.FIXED REG.
1203-008867	U3011	IC-POSI.FIXED REG.
1203-008870	U7005	IC-POSI.FIXED REG.
1203-008872	U3003	IC-POSI.FIXED REG.
1203-008924	U7016	IC-POSI.FIXED REG.
1203-008925	U7012	IC-POSI.FIXED REG.
1203-008951	U5005	IC-POSI.FIXED REG.
1203-008955	U7003	IC-POSI.FIXED REG.

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5. MAIN Electrical Parts List

1203-008995	U5000	IC-POWER SUPERVISOR
1205-005372	U3007	IC-WIFI
1205-005565	UCP400	IC-MODEM
1205-005639	U2003	IC-TRANSCEIVER
1205-005680	U3009	IC-NFC/RFID
1205-005685	U6002	IC-TOUCH
1209-002330	U7001	IC-MAGNETIC SENSOR
1209-002344	U7000	IC-ACCEL./GYRO SENSOR
1209-002439	U6000	IC-TOUCH SENSOR
1209-002490	U7017	IC-OPTICS SENSOR
1404-001664	TH4000	THERMISTOR-NTC
1404-001664	TH4001	THERMISTOR-NTC
1404-001724	TH2000	THERMISTOR-NTC
1405-001395	VR1002	VARISTOR
1405-001395	VR2001	VARISTOR
1405-001395	VR2002	VARISTOR
1405-001395	VR3002	VARISTOR
1405-001403	V1001	VARISTOR
1405-001403	V1002	VARISTOR
1405-001403	V1003	VARISTOR
1405-001403	V1004	VARISTOR
1405-001403	VR1001	VARISTOR
1405-001407	V1006	VARISTOR
1405-001407	VR7000	VARISTOR
1405-001412	V1007	VARISTOR
1405-001412	V1008	VARISTOR
1405-001425	U7018	VARISTOR
1405-001425	U7019	VARISTOR
1405-001425	V3001	VARISTOR
1405-001425	VR1000	VARISTOR
1405-001425	VR2000	VARISTOR
1405-001431	VR1004	VARISTOR
2007-002796	R6040	R-CHIP
2007-002796	R6042	R-CHIP
2007-003015	R5057	R-CHIP
2007-003015	R5058	R-CHIP
2007-007100	R1004	R-CHIP
2007-007190	R6024	R-CHIP
2007-007190	R6025	R-CHIP

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5. MAIN Electrical Parts List

2007-007741	R4000	R-CHIP
2007-007741	R4002	R-CHIP
2007-007741	R4003	R-CHIP
2007-007741	R4004	R-CHIP
2007-007741	R4038	R-CHIP
2007-007741	R5000	R-CHIP
2007-007741	R5027	R-CHIP
2007-007741	R5052	R-CHIP
2007-007741	R5059	R-CHIP
2007-007741	R6023	R-CHIP
2007-007741	R6034	R-CHIP
2007-007741	R7015	R-CHIP
2007-007798	R5023	R-CHIP
2007-007798	R5060	R-CHIP
2007-007942	R5049	R-CHIP
2007-007946	R5053	R-CHIP
2007-008043	R2003	R-CHIP
2007-008056	R1001	R-CHIP
2007-008056	R1002	R-CHIP
2007-008210	R5031	R-CHIP
2007-008531	R7000	R-CHIP
2007-008531	R7001	R-CHIP
2007-008587	R6054	R-CHIP
2007-008587	R6056	R-CHIP
2007-008736	R6000	R-CHIP
2007-008785	R1000	R-CHIP
2007-008800	R4010	R-CHIP
2007-008800	R4011	R-CHIP
2007-008800	R4039	R-CHIP
2007-008800	R4040	R-CHIP
2007-008809	R3020	R-CHIP
2007-008816	R6018	R-CHIP
2007-009111	R5002	R-CHIP
2007-009111	R7014	R-CHIP
2007-009157	R2009	R-CHIP
2007-009157	R4001	R-CHIP
2007-009157	R4027	R-CHIP
2007-009157	R4033	R-CHIP
2007-009157	R4034	R-CHIP

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5. MAIN Electrical Parts List

2007-009157	R4044	R-CHIP
2007-009157	R4046	R-CHIP
2007-009157	R5004	R-CHIP
2007-009157	R5015	R-CHIP
2007-009157	R5019	R-CHIP
2007-009157	R5055	R-CHIP
2007-009157	R6026	R-CHIP
2007-009157	R6028	R-CHIP
2007-009158	R3027	R-CHIP
2007-009158	R5005	R-CHIP
2007-009171	R4024	R-CHIP
2007-009171	R5001	R-CHIP
2007-009171	R5018	R-CHIP
2007-009201	R6001	R-CHIP
2007-009201	R6006	R-CHIP
2007-009212	R1006	R-CHIP
2007-009212	R5008	R-CHIP
2007-009212	R5010	R-CHIP
2007-009212	R5056	R-CHIP
2007-009212	R6009	R-CHIP
2007-009314	R5014	R-CHIP
2007-009314	R5037	R-CHIP
2007-009314	R5038	R-CHIP
2007-009315	R5016	R-CHIP
2007-009315	R5017	R-CHIP
2007-009315	R5020	R-CHIP
2007-009315	R5022	R-CHIP
2007-009315	R5040	R-CHIP
2007-009315	R5041	R-CHIP
2007-009315	R5043	R-CHIP
2007-009315	R5044	R-CHIP
2007-009315	R5045	R-CHIP
2007-009352	R3005	R-CHIP
2007-009408	R4014	R-CHIP
2007-009408	R4015	R-CHIP
2007-009408	R4016	R-CHIP
2007-009408	R4017	R-CHIP
2007-009408	R4018	R-CHIP
2007-009408	R4019	R-CHIP

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5. MAIN Electrical Parts List

2007-009408	R4020	R-CHIP
2007-009408	R4021	R-CHIP
2007-009408	R4022	R-CHIP
2007-009408	R4023	R-CHIP
2007-009408	R4028	R-CHIP
2007-009408	R4029	R-CHIP
2007-009408	R4030	R-CHIP
2007-009408	R4031	R-CHIP
2007-009408	R4032	R-CHIP
2007-009408	R4035	R-CHIP
2007-009408	R4048	R-CHIP
2007-009408	R4049	R-CHIP
2007-009408	R6011	R-CHIP
2007-009408	R6037	R-CHIP
2007-009408	R6038	R-CHIP
2007-009408	R6043	R-CHIP
2007-009408	R6057	R-CHIP
2007-009408	R7003	R-CHIP
2007-009408	R7004	R-CHIP
2007-009408	R7011	R-CHIP
2007-009801	R5054	R-CHIP
2007-009805	R1003	R-CHIP
2007-009805	R2000	R-CHIP
2007-009920	R4008	R-CHIP
2007-009920	R4009	R-CHIP
2007-009920	R4012	R-CHIP
2007-009924	R5046	R-CHIP
2007-009954	R6017	R-CHIP
2007-009969	R6010	R-CHIP
2007-010029	R5003	R-CHIP
2007-010031	R6022	R-CHIP
2007-010202	R5025	R-CHIP
2007-010202	R5026	R-CHIP
2007-010202	R6027	R-CHIP
2007-010685	R6020	R-CHIP
2007-011043	R4013	R-CHIP
2007-011377	R6012	R-CHIP
2007-012038	R5048	R-CHIP
2007-012068	R5030	R-CHIP

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5. MAIN Electrical Parts List

2203-000854	C3141	C-CER,CHIP
2203-000854	C3142	C-CER,CHIP
2203-000995	C5130	C-CER,CHIP
2203-001153	C5101	C-CER,CHIP
2203-001153	C5148	C-CER,CHIP
2203-001239	C3108	C-CER,CHIP
2203-001239	C3128	C-CER,CHIP
2203-005682	C2040	C-CER,CHIP
2203-005682	C3132	C-CER,CHIP
2203-005682	C5087	C-CER,CHIP
2203-005682	C5088	C-CER,CHIP
2203-005682	C5099	C-CER,CHIP
2203-005682	C5104	C-CER,CHIP
2203-005682	C5105	C-CER,CHIP
2203-005682	C5107	C-CER,CHIP
2203-005682	C5124	C-CER,CHIP
2203-005682	C5126	C-CER,CHIP
2203-005682	C5127	C-CER,CHIP
2203-005682	C7009	C-CER,CHIP
2203-005682	C7014	C-CER,CHIP
2203-005717	C1091	C-CER,CHIP
2203-005717	C1092	C-CER,CHIP
2203-005719	C6043	C-CER,CHIP
2203-005725	C3021	C-CER,CHIP
2203-005725	C7007	C-CER,CHIP
2203-005727	C2105	C-CER,CHIP
2203-005727	C3038	C-CER,CHIP
2203-005727	C3039	C-CER,CHIP
2203-005727	C5103	C-CER,CHIP
2203-005729	C6003	C-CER,CHIP
2203-005729	C6006	C-CER,CHIP
2203-005729	C6009	C-CER,CHIP
2203-005729	C6031	C-CER,CHIP
2203-005729	C7003	C-CER,CHIP
2203-005729	C7005	C-CER,CHIP
2203-005729	C7008	C-CER,CHIP
2203-005729	C7021	C-CER,CHIP
2203-005729	C7022	C-CER,CHIP
2203-005729	L1003	C-CER,CHIP

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2203-005731	C2048	C-CER,CHIP
2203-005731	C3114	C-CER,CHIP
2203-005731	C6027	C-CER,CHIP
2203-005731	C6028	C-CER,CHIP
2203-005732	C3109	C-CER,CHIP
2203-005732	C3127	C-CER,CHIP
2203-005732	C5135	C-CER,CHIP
2203-005732	C6004	C-CER,CHIP
2203-005734	C6025	C-CER,CHIP
2203-005734	C6026	C-CER,CHIP
2203-005736	C1000	C-CER,CHIP
2203-005736	C1002	C-CER,CHIP
2203-005736	C1003	C-CER,CHIP
2203-005736	C1007	C-CER,CHIP
2203-005736	C1013	C-CER,CHIP
2203-005736	C1014	C-CER,CHIP
2203-005736	C1015	C-CER,CHIP
2203-005736	C1017	C-CER,CHIP
2203-005736	C1018	C-CER,CHIP
2203-005736	C1021	C-CER,CHIP
2203-005736	C1029	C-CER,CHIP
2203-005736	C1039	C-CER,CHIP
2203-005736	C1048	C-CER,CHIP
2203-005736	C1056	C-CER,CHIP
2203-005736	C1057	C-CER,CHIP
2203-005736	C1061	C-CER,CHIP
2203-005736	C1062	C-CER,CHIP
2203-005736	C1123	C-CER,CHIP
2203-005736	C1130	C-CER,CHIP
2203-005736	C1131	C-CER,CHIP
2203-005736	C1132	C-CER,CHIP
2203-005736	C1151	C-CER,CHIP
2203-005736	C1244	C-CER,CHIP
2203-005736	C2000	C-CER,CHIP
2203-005736	C2050	C-CER,CHIP
2203-005736	C2051	C-CER,CHIP
2203-005736	C2052	C-CER,CHIP
2203-005736	C2058	C-CER,CHIP
2203-005736	C2064	C-CER,CHIP

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2203-005736	C2065	C-CER,CHIP
2203-005736	C2069	C-CER,CHIP
2203-005736	C2070	C-CER,CHIP
2203-005736	C2100	C-CER,CHIP
2203-005736	C2101	C-CER,CHIP
2203-005736	C2102	C-CER,CHIP
2203-005736	C2104	C-CER,CHIP
2203-005736	C2106	C-CER,CHIP
2203-005736	C2108	C-CER,CHIP
2203-005736	C2114	C-CER,CHIP
2203-005736	C2115	C-CER,CHIP
2203-005736	C2130	C-CER,CHIP
2203-005736	C2131	C-CER,CHIP
2203-005736	C2134	C-CER,CHIP
2203-005736	C3048	C-CER,CHIP
2203-005736	C3074	C-CER,CHIP
2203-005736	C3115	C-CER,CHIP
2203-005736	C3131	C-CER,CHIP
2203-005736	C3139	C-CER,CHIP
2203-005736	C6037	C-CER,CHIP
2203-005736	C7034	C-CER,CHIP
2203-005736	C7037	C-CER,CHIP
2203-005736	C7076	C-CER,CHIP
2203-005736	L1007	C-CER,CHIP
2203-005736	L1013	C-CER,CHIP
2203-005736	L2057	C-CER,CHIP
2203-005736	L3005	C-CER,CHIP
2203-005777	C1022	C-CER,CHIP
2203-005777	C2001	C-CER,CHIP
2203-005777	L2030	C-CER,CHIP
2203-005789	C1064	C-CER,CHIP
2203-005789	C2002	C-CER,CHIP
2203-005789	C2022	C-CER,CHIP
2203-005789	C2025	C-CER,CHIP
2203-005789	C2033	C-CER,CHIP
2203-005789	C2034	C-CER,CHIP
2203-005789	C2037	C-CER,CHIP
2203-005789	C2045	C-CER,CHIP
2203-005789	C2067	C-CER,CHIP

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2203-005789	C2079	C-CER,CHIP
2203-005789	C2088	C-CER,CHIP
2203-005789	C2094	C-CER,CHIP
2203-005789	C3050	C-CER,CHIP
2203-005789	C3140	C-CER,CHIP
2203-005789	L1009	C-CER,CHIP
2203-005789	L1048	C-CER,CHIP
2203-005789	L2003	C-CER,CHIP
2203-005789	L2019	C-CER,CHIP
2203-005789	L2025	C-CER,CHIP
2203-005789	L2033	C-CER,CHIP
2203-005789	L2056	C-CER,CHIP
2203-005789	L2067	C-CER,CHIP
2203-005792	C2009	C-CER,CHIP
2203-005792	C2026	C-CER,CHIP
2203-005792	C2031	C-CER,CHIP
2203-005792	C2055	C-CER,CHIP
2203-005792	C2090	C-CER,CHIP
2203-005792	C2112	C-CER,CHIP
2203-005792	C5114	C-CER,CHIP
2203-005806	C2003	C-CER,CHIP
2203-005806	C2007	C-CER,CHIP
2203-005806	C2021	C-CER,CHIP
2203-005806	C2103	C-CER,CHIP
2203-006121	C6023	C-CER,CHIP
2203-006123	C1024	C-CER,CHIP
2203-006123	C1128	C-CER,CHIP
2203-006187	C1055	C-CER,CHIP
2203-006187	C1124	C-CER,CHIP
2203-006187	C1245	C-CER,CHIP
2203-006187	C2089	C-CER,CHIP
2203-006187	C2095	C-CER,CHIP
2203-006187	C2096	C-CER,CHIP
2203-006187	C2099	C-CER,CHIP
2203-006187	C2302	C-CER,CHIP
2203-006194	C2132	C-CER,CHIP
2203-006194	C5098	C-CER,CHIP
2203-006194	C5123	C-CER,CHIP
2203-006194	C6016	C-CER,CHIP

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2203-006194	C6017	C-CER,CHIP
2203-006305	C3012	C-CER,CHIP
2203-006305	C3037	C-CER,CHIP
2203-006305	C3045	C-CER,CHIP
2203-006305	C3137	C-CER,CHIP
2203-006305	L3027	C-CER,CHIP
2203-006318	C2013	C-CER,CHIP
2203-006318	C2036	C-CER,CHIP
2203-006318	C2043	C-CER,CHIP
2203-006318	C5115	C-CER,CHIP
2203-006399	C4001	C-CER,CHIP
2203-006399	C4012	C-CER,CHIP
2203-006399	C4016	C-CER,CHIP
2203-006399	C4021	C-CER,CHIP
2203-006399	C4022	C-CER,CHIP
2203-006399	C4025	C-CER,CHIP
2203-006399	C4062	C-CER,CHIP
2203-006399	C4065	C-CER,CHIP
2203-006399	C4071	C-CER,CHIP
2203-006400	C1001	C-CER,CHIP
2203-006400	C2215	C-CER,CHIP
2203-006400	C2222	C-CER,CHIP
2203-006400	C3001	C-CER,CHIP
2203-006400	C3007	C-CER,CHIP
2203-006400	C3023	C-CER,CHIP
2203-006400	C3046	C-CER,CHIP
2203-006400	C4027	C-CER,CHIP
2203-006400	C4070	C-CER,CHIP
2203-006400	C6053	C-CER,CHIP
2203-006423	C2011	C-CER,CHIP
2203-006423	C2016	C-CER,CHIP
2203-006423	C2283	C-CER,CHIP
2203-006423	C3004	C-CER,CHIP
2203-006423	C3013	C-CER,CHIP
2203-006423	C3015	C-CER,CHIP
2203-006423	C3018	C-CER,CHIP
2203-006423	C3062	C-CER,CHIP
2203-006423	C3134	C-CER,CHIP
2203-006423	C4068	C-CER,CHIP

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2203-006423	C4069	C-CER,CHIP
2203-006423	C5076	C-CER,CHIP
2203-006423	C5094	C-CER,CHIP
2203-006423	C5097	C-CER,CHIP
2203-006423	C5100	C-CER,CHIP
2203-006423	C5113	C-CER,CHIP
2203-006423	C5125	C-CER,CHIP
2203-006423	C5128	C-CER,CHIP
2203-006423	C6007	C-CER,CHIP
2203-006423	C6011	C-CER,CHIP
2203-006423	C6024	C-CER,CHIP
2203-006423	C7000	C-CER,CHIP
2203-006423	C7001	C-CER,CHIP
2203-006423	C7020	C-CER,CHIP
2203-006556	C2010	C-CER,CHIP
2203-006556	C2015	C-CER,CHIP
2203-006556	C2018	C-CER,CHIP
2203-006556	C2028	C-CER,CHIP
2203-006556	C2038	C-CER,CHIP
2203-006556	C2039	C-CER,CHIP
2203-006556	C5081	C-CER,CHIP
2203-006556	C5082	C-CER,CHIP
2203-006556	C6015	C-CER,CHIP
2203-006556	C6018	C-CER,CHIP
2203-006562	C2004	C-CER,CHIP
2203-006562	C5042	C-CER,CHIP
2203-006562	C5043	C-CER,CHIP
2203-006562	C5111	C-CER,CHIP
2203-006562	C5121	C-CER,CHIP
2203-006562	C6034	C-CER,CHIP
2203-006562	C7042	C-CER,CHIP
2203-006562	C7043	C-CER,CHIP
2203-006562	C7072	C-CER,CHIP
2203-006611	C3040	C-CER,CHIP
2203-006611	C5132	C-CER,CHIP
2203-006642	C2228	C-CER,CHIP
2203-006642	C3090	C-CER,CHIP
2203-006665	C3066	C-CER,CHIP
2203-006668	C2123	C-CER,CHIP

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5. MAIN Electrical Parts List

2203-006668	C2231	C-CER,CHIP
2203-006668	C4032	C-CER,CHIP
2203-006668	C5091	C-CER,CHIP
2203-006668	C5092	C-CER,CHIP
2203-006693	C1093	C-CER,CHIP
2203-006707	C3043	C-CER,CHIP
2203-006707	C3047	C-CER,CHIP
2203-006707	C3049	C-CER,CHIP
2203-006707	C3051	C-CER,CHIP
2203-006707	C3052	C-CER,CHIP
2203-006707	L2024	C-CER,CHIP
2203-006824	C5039	C-CER,CHIP
2203-006824	C5045	C-CER,CHIP
2203-006824	C5046	C-CER,CHIP
2203-006824	C5047	C-CER,CHIP
2203-006824	C5048	C-CER,CHIP
2203-006824	C5049	C-CER,CHIP
2203-006839	C2017	C-CER,CHIP
2203-006839	C5050	C-CER,CHIP
2203-006839	C5055	C-CER,CHIP
2203-006839	C5057	C-CER,CHIP
2203-006839	C6051	C-CER,CHIP
2203-006846	C2091	C-CER,CHIP
2203-006872	C7078	C-CER,CHIP
2203-006872	C7079	C-CER,CHIP
2203-006979	C2076	C-CER,CHIP
2203-006979	C2078	C-CER,CHIP
2203-006979	C2085	C-CER,CHIP
2203-006979	C2286	C-CER,CHIP
2203-006979	C2288	C-CER,CHIP
2203-006979	C2290	C-CER,CHIP
2203-006979	C2292	C-CER,CHIP
2203-006979	C2295	C-CER,CHIP
2203-006979	C6014	C-CER,CHIP
2203-006979	C6019	C-CER,CHIP
2203-006979	C6029	C-CER,CHIP
2203-007210	C3019	C-CER,CHIP
2203-007210	C3025	C-CER,CHIP
2203-007210	C3026	C-CER,CHIP

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2203-007210	C4005	C-CER,CHIP
2203-007210	C5141	C-CER,CHIP
2203-007210	C5142	C-CER,CHIP
2203-007210	C6039	C-CER,CHIP
2203-007240	C5035	C-CER,CHIP
2203-007240	C5064	C-CER,CHIP
2203-007240	C5065	C-CER,CHIP
2203-007240	C5071	C-CER,CHIP
2203-007240	C5072	C-CER,CHIP
2203-007240	C5073	C-CER,CHIP
2203-007269	C7027	C-CER,CHIP
2203-007269	C7030	C-CER,CHIP
2203-007269	C7031	C-CER,CHIP
2203-007269	C7035	C-CER,CHIP
2203-007269	C7036	C-CER,CHIP
2203-007271	C2006	C-CER,CHIP
2203-007271	C2012	C-CER,CHIP
2203-007271	C5007	C-CER,CHIP
2203-007271	C5061	C-CER,CHIP
2203-007271	C5086	C-CER,CHIP
2203-007271	C5093	C-CER,CHIP
2203-007271	C5109	C-CER,CHIP
2203-007271	C5117	C-CER,CHIP
2203-007271	C5133	C-CER,CHIP
2203-007279	C2020	C-CER,CHIP
2203-007279	C3024	C-CER,CHIP
2203-007279	C5060	C-CER,CHIP
2203-007279	C7028	C-CER,CHIP
2203-007317	C3009	C-CER,CHIP
2203-007317	C3028	C-CER,CHIP
2203-007317	C3032	C-CER,CHIP
2203-007317	C4014	C-CER,CHIP
2203-007317	C4018	C-CER,CHIP
2203-007317	C4020	C-CER,CHIP
2203-007317	C4030	C-CER,CHIP
2203-007317	C5005	C-CER,CHIP
2203-007317	C5017	C-CER,CHIP
2203-007317	C5018	C-CER,CHIP
2203-007317	C5019	C-CER,CHIP

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2203-007317	C5036	C-CER,CHIP
2203-007317	C5040	C-CER,CHIP
2203-007317	C5112	C-CER,CHIP
2203-007317	C5143	C-CER,CHIP
2203-007317	C7011	C-CER,CHIP
2203-007317	C7013	C-CER,CHIP
2203-007317	C7059	C-CER,CHIP
2203-007317	C7075	C-CER,CHIP
2203-007385	C4042	C-CER,CHIP
2203-007391	C2282	C-CER,CHIP
2203-007391	C3020	C-CER,CHIP
2203-007393	C1100	C-CER,CHIP
2203-007393	C3030	C-CER,CHIP
2203-007393	C5056	C-CER,CHIP
2203-007393	C5062	C-CER,CHIP
2203-007393	C5067	C-CER,CHIP
2203-007393	C5069	C-CER,CHIP
2203-007393	C5070	C-CER,CHIP
2203-007393	C7038	C-CER,CHIP
2203-007449	C1099	C-CER,CHIP
2203-007449	C2075	C-CER,CHIP
2203-007449	C2284	C-CER,CHIP
2203-007449	C2289	C-CER,CHIP
2203-007449	C2293	C-CER,CHIP
2203-007449	C3005	C-CER,CHIP
2203-007449	C3022	C-CER,CHIP
2203-007449	C3078	C-CER,CHIP
2203-007449	C3083	C-CER,CHIP
2203-007449	C3085	C-CER,CHIP
2203-007449	C3087	C-CER,CHIP
2203-007449	C3088	C-CER,CHIP
2203-007449	C3089	C-CER,CHIP
2203-007449	C4000	C-CER,CHIP
2203-007449	C4002	C-CER,CHIP
2203-007449	C4003	C-CER,CHIP
2203-007449	C4004	C-CER,CHIP
2203-007449	C4006	C-CER,CHIP
2203-007449	C4007	C-CER,CHIP
2203-007449	C4008	C-CER,CHIP

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5. MAIN Electrical Parts List

2203-007449	C4009	C-CER,CHIP
2203-007449	C4011	C-CER,CHIP
2203-007449	C4013	C-CER,CHIP
2203-007449	C4015	C-CER,CHIP
2203-007449	C4017	C-CER,CHIP
2203-007449	C4019	C-CER,CHIP
2203-007449	C4023	C-CER,CHIP
2203-007449	C4024	C-CER,CHIP
2203-007449	C4026	C-CER,CHIP
2203-007449	C4028	C-CER,CHIP
2203-007449	C4029	C-CER,CHIP
2203-007449	C4031	C-CER,CHIP
2203-007449	C4034	C-CER,CHIP
2203-007449	C4035	C-CER,CHIP
2203-007449	C4037	C-CER,CHIP
2203-007449	C4038	C-CER,CHIP
2203-007449	C4039	C-CER,CHIP
2203-007449	C4040	C-CER,CHIP
2203-007449	C4041	C-CER,CHIP
2203-007449	C4043	C-CER,CHIP
2203-007449	C4044	C-CER,CHIP
2203-007449	C4045	C-CER,CHIP
2203-007449	C4046	C-CER,CHIP
2203-007449	C4047	C-CER,CHIP
2203-007449	C4048	C-CER,CHIP
2203-007449	C4049	C-CER,CHIP
2203-007449	C4050	C-CER,CHIP
2203-007449	C4052	C-CER,CHIP
2203-007449	C4053	C-CER,CHIP
2203-007449	C4054	C-CER,CHIP
2203-007449	C4056	C-CER,CHIP
2203-007449	C4057	C-CER,CHIP
2203-007449	C4058	C-CER,CHIP
2203-007449	C4059	C-CER,CHIP
2203-007449	C4060	C-CER,CHIP
2203-007449	C4061	C-CER,CHIP
2203-007449	C4063	C-CER,CHIP
2203-007449	C5001	C-CER,CHIP
2203-007449	C5002	C-CER,CHIP

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5. MAIN Electrical Parts List

2203-007449	C5003	C-CER,CHIP
2203-007449	C5004	C-CER,CHIP
2203-007449	C5009	C-CER,CHIP
2203-007449	C5015	C-CER,CHIP
2203-007449	C5020	C-CER,CHIP
2203-007449	C5021	C-CER,CHIP
2203-007449	C5023	C-CER,CHIP
2203-007449	C5024	C-CER,CHIP
2203-007449	C5025	C-CER,CHIP
2203-007449	C5026	C-CER,CHIP
2203-007449	C5027	C-CER,CHIP
2203-007449	C5030	C-CER,CHIP
2203-007449	C5031	C-CER,CHIP
2203-007449	C5032	C-CER,CHIP
2203-007449	C5034	C-CER,CHIP
2203-007449	C5078	C-CER,CHIP
2203-007449	C5079	C-CER,CHIP
2203-007449	C5080	C-CER,CHIP
2203-007449	C5118	C-CER,CHIP
2203-007449	C6032	C-CER,CHIP
2203-007449	C6041	C-CER,CHIP
2203-007449	C6042	C-CER,CHIP
2203-007449	C6079	C-CER,CHIP
2203-007449	C6080	C-CER,CHIP
2203-007449	C7004	C-CER,CHIP
2203-007449	C7006	C-CER,CHIP
2203-007449	C7012	C-CER,CHIP
2203-007449	C7016	C-CER,CHIP
2203-007449	C7018	C-CER,CHIP
2203-007449	C7056	C-CER,CHIP
2203-007449	C7062	C-CER,CHIP
2203-007474	C2077	C-CER,CHIP
2203-007474	C2287	C-CER,CHIP
2203-007474	C2291	C-CER,CHIP
2203-007474	C2294	C-CER,CHIP
2203-007474	C4036	C-CER,CHIP
2203-007474	C4055	C-CER,CHIP
2203-007796	C3014	C-CER,CHIP
2203-007796	C3027	C-CER,CHIP

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2203-007796	C3077	C-CER,CHIP
2203-007796	C4051	C-CER,CHIP
2203-007796	C4064	C-CER,CHIP
2203-007796	C5000	C-CER,CHIP
2203-007796	C5008	C-CER,CHIP
2203-007796	C5010	C-CER,CHIP
2203-007796	C5011	C-CER,CHIP
2203-007796	C5012	C-CER,CHIP
2203-007796	C5013	C-CER,CHIP
2203-007796	C5014	C-CER,CHIP
2203-007796	C5016	C-CER,CHIP
2203-007796	C5022	C-CER,CHIP
2203-007796	C5028	C-CER,CHIP
2203-007796	C5029	C-CER,CHIP
2203-007796	C5059	C-CER,CHIP
2203-007796	C5084	C-CER,CHIP
2203-007796	C5085	C-CER,CHIP
2203-007796	C5144	C-CER,CHIP
2203-007796	C6030	C-CER,CHIP
2203-007796	C6050	C-CER,CHIP
2203-007796	C7015	C-CER,CHIP
2203-007796	C7017	C-CER,CHIP
2203-007796	C7024	C-CER,CHIP
2203-007796	C7058	C-CER,CHIP
2203-007796	C7063	C-CER,CHIP
2203-007796	C7073	C-CER,CHIP
2203-007854	L2063	C-CER,CHIP
2203-008097	C2019	C-CER,CHIP
2203-008242	C3031	C-CER,CHIP
2203-008242	C3135	C-CER,CHIP
2203-008242	C5006	C-CER,CHIP
2203-008242	C5033	C-CER,CHIP
2203-008394	C1006	C-CER,CHIP
2203-008394	C1060	C-CER,CHIP
2203-008572	C5054	C-CER,CHIP
2203-008572	C5136	C-CER,CHIP
2203-008654	C5110	C-CER,CHIP
2203-008654	C5134	C-CER,CHIP
2203-008654	C5149	C-CER,CHIP

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2203-008691	C4010	C-CER,CHIP
2203-008860	C3073	C-CER,CHIP
2203-008860	C3082	C-CER,CHIP
2203-008860	C3084	C-CER,CHIP
2203-008860	C3086	C-CER,CHIP
2203-008860	C3136	C-CER,CHIP
2203-008860	C5051	C-CER,CHIP
2203-008860	C5083	C-CER,CHIP
2203-008860	C5131	C-CER,CHIP
2203-008860	C7026	C-CER,CHIP
2203-008860	C7055	C-CER,CHIP
2203-008860	C7057	C-CER,CHIP
2203-008876	C3008	C-CER,CHIP
2203-008876	C5106	C-CER,CHIP
2203-008876	C6036	C-CER,CHIP
2203-008876	C6038	C-CER,CHIP
2203-008876	C6055	C-CER,CHIP
2203-008876	C7061	C-CER,CHIP
2203-009167	C3064	C-CER,CHIP
2203-009167	C3130	C-CER,CHIP
2203-009210	C3104	C-CER,CHIP
2203-009210	C3129	C-CER,CHIP
2203-009618	C6005	C-CER,CHIP
2203-009618	C6010	C-CER,CHIP
2203-009665	C1004	C-CER,CHIP
2203-009733	C1098	C-CER,CHIP
2203-009733	C3000	C-CER,CHIP
2203-009733	C3080	C-CER,CHIP
2203-009733	C3112	C-CER,CHIP
2203-009733	C3113	C-CER,CHIP
2203-009733	C5041	C-CER,CHIP
2203-009733	C5066	C-CER,CHIP
2203-009733	C6048	C-CER,CHIP
2203-009733	C7002	C-CER,CHIP
2203-009733	C7029	C-CER,CHIP
2203-009733	C7060	C-CER,CHIP
2203-009733	C7074	C-CER,CHIP
2409-001369	TA3000	C-POLYMER ,CHIP
2409-001369	TA5000	C-POLYMER ,CHIP

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2703-002309	L6007	INDUCTOR-SMD
2703-002858	C1008	INDUCTOR-SMD
2703-002858	C1137	INDUCTOR-SMD
2703-002858	L1012	INDUCTOR-SMD
2703-002858	L1027	INDUCTOR-SMD
2703-002858	L1028	INDUCTOR-SMD
2703-002858	L3033	INDUCTOR-SMD
2703-002900	L5008	INDUCTOR-SMD
2703-002901	L1024	INDUCTOR-SMD
2703-002907	L3020	INDUCTOR-SMD
2703-002953	C2014	INDUCTOR-SMD
2703-002953	L1011	INDUCTOR-SMD
2703-002953	L1025	INDUCTOR-SMD
2703-002953	L5009	INDUCTOR-SMD
2703-002958	L1005	INDUCTOR-SMD
2703-002958	L1006	INDUCTOR-SMD
2703-002959	L6015	INDUCTOR-SMD
2703-002960	C1012	INDUCTOR-SMD
2703-002960	C1020	INDUCTOR-SMD
2703-002960	L1023	INDUCTOR-SMD
2703-002961	L6017	INDUCTOR-SMD
2703-002961	L6018	INDUCTOR-SMD
2703-002961	R2005	INDUCTOR-SMD
2703-002961	R2006	INDUCTOR-SMD
2703-002961	R2007	INDUCTOR-SMD
2703-003878	L6013	INDUCTOR-SMD
2703-004000	L2051	INDUCTOR-SMD
2703-004012	L1032	INDUCTOR-SMD
2703-004012	L2009	INDUCTOR-SMD
2703-004012	L2064	INDUCTOR-SMD
2703-004013	C2087	INDUCTOR-SMD
2703-004013	L1004	INDUCTOR-SMD
2703-004013	L3014	INDUCTOR-SMD
2703-004018	C1023	INDUCTOR-SMD
2703-004018	C2044	INDUCTOR-SMD
2703-004018	L1017	INDUCTOR-SMD
2703-004018	L2002	INDUCTOR-SMD
2703-004032	C2027	INDUCTOR-SMD
2703-004032	C2093	INDUCTOR-SMD

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2703-004032	L1014	INDUCTOR-SMD
2703-004032	L2017	INDUCTOR-SMD
2703-004032	L2034	INDUCTOR-SMD
2703-004033	L2012	INDUCTOR-SMD
2703-004034	L1019	INDUCTOR-SMD
2703-004034	L1026	INDUCTOR-SMD
2703-004034	L1039	INDUCTOR-SMD
2703-004034	L2053	INDUCTOR-SMD
2703-004034	L3015	INDUCTOR-SMD
2703-004035	C2129	INDUCTOR-SMD
2703-004035	C3041	INDUCTOR-SMD
2703-004035	L1035	INDUCTOR-SMD
2703-004036	L2068	INDUCTOR-SMD
2703-004036	L2078	INDUCTOR-SMD
2703-004036	L3035	INDUCTOR-SMD
2703-004037	L2000	INDUCTOR-SMD
2703-004037	L3032	INDUCTOR-SMD
2703-004038	C1016	INDUCTOR-SMD
2703-004038	C2084	INDUCTOR-SMD
2703-004038	L2001	INDUCTOR-SMD
2703-004286	L1018	INDUCTOR-SMD
2703-004286	L2023	INDUCTOR-SMD
2703-004286	L2031	INDUCTOR-SMD
2703-004286	L2036	INDUCTOR-SMD
2703-004286	L2050	INDUCTOR-SMD
2703-004286	L2065	INDUCTOR-SMD
2703-004289	L1030	INDUCTOR-SMD
2703-004289	L2070	INDUCTOR-SMD
2703-004301	L2052	INDUCTOR-SMD
2703-004328	L2006	INDUCTOR-SMD
2703-004328	L2016	INDUCTOR-SMD
2703-004328	L2020	INDUCTOR-SMD
2703-004328	L2049	INDUCTOR-SMD
2703-004328	L2054	INDUCTOR-SMD
2703-004366	C2035	INDUCTOR-SMD
2703-004366	C2053	INDUCTOR-SMD
2703-004366	L1001	INDUCTOR-SMD
2703-004366	L2007	INDUCTOR-SMD
2703-004366	L3031	INDUCTOR-SMD

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2703-004366	L3037	INDUCTOR-SMD
2703-004367	L1020	INDUCTOR-SMD
2703-004369	L3013	INDUCTOR-SMD
2703-004371	L2018	INDUCTOR-SMD
2703-004763	C2030	INDUCTOR-SMD
2703-004763	C2041	INDUCTOR-SMD
2703-004763	L1002	INDUCTOR-SMD
2703-004763	L1015	INDUCTOR-SMD
2703-004763	L2021	INDUCTOR-SMD
2703-004853	C1030	INDUCTOR-SMD
2703-004853	L2074	INDUCTOR-SMD
2703-004862	L2044	INDUCTOR-SMD
2703-004901	L5003	INDUCTOR-SMD
2703-004901	L5004	INDUCTOR-SMD
2703-004901	L5005	INDUCTOR-SMD
2703-004901	L5006	INDUCTOR-SMD
2703-004901	L5007	INDUCTOR-SMD
2703-005015	C2124	INDUCTOR-SMD
2703-005066	L1033	INDUCTOR-SMD
2703-005085	C2029	INDUCTOR-SMD
2703-005085	C2046	INDUCTOR-SMD
2703-005085	L2022	INDUCTOR-SMD
2703-005085	L2058	INDUCTOR-SMD
2703-005085	L2077	INDUCTOR-SMD
2703-005085	L3016	INDUCTOR-SMD
2703-005085	L3030	INDUCTOR-SMD
2703-005087	C1043	INDUCTOR-SMD
2703-005087	C2113	INDUCTOR-SMD
2703-005087	L1029	INDUCTOR-SMD
2703-005087	L2029	INDUCTOR-SMD
2703-005109	L5011	INDUCTOR-SMD
2703-005117	L7006	INDUCTOR-SMD
2703-005117	L7015	INDUCTOR-SMD
2703-005118	L7005	INDUCTOR-SMD
2703-005200	L3006	INDUCTOR-SMD
2703-005225	L3034	INDUCTOR-SMD
2703-005366	L1016	INDUCTOR-SMD
2703-005505	L6019	INDUCTOR-SMD
2703-005555	L3018	INDUCTOR-SMD

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2703-005555	L3019	INDUCTOR-SMD
2801-005230	OSC5000	CRYSTAL-SMD
2801-005487	OSC3000	CRYSTAL-SMD
2805-001113	OSC3001	OSCILLATOR-TCXO
2809-001411	TCX2000	OSCILLATOR-VCTCXO
2901-001786	F7000	FILTER-EMI/ESD
2901-001786	F7001	FILTER-EMI/ESD
2901-001786	F7002	FILTER-EMI/ESD
2901-001786	F7003	FILTER-EMI/ESD
2901-001786	F7004	FILTER-EMI/ESD
2901-001798	F7010	FILTER-EMI/ESD
2901-001798	F7011	FILTER-EMI/ESD
2901-001798	F7012	FILTER-EMI/ESD
2901-001798	F7013	FILTER-EMI/ESD
2901-001798	F7014	FILTER-EMI/ESD
2904-002143	F2002	FILTER-SAW
2904-002257	F2007	FILTER-SAW
2904-002339	F2006	FILTER-SAW
2904-002356	F3003	FILTER SAW GPS
2904-002356	F3004	FILTER SAW GPS
2904-002360	F3000	FILTER SAW WIFI
2904-002367	F2003	FILTER-SAW
2910-000390	F2001	DUPLEXER-SAW
2911-000435	U2005	DUPLEXER-ASM
2911-000447	U1003	DUPLEXER-FEM
3003-001233	MIC6000	MIC MEMS
3301-001438	L3036	BEAD-SMD
3301-001885	L6003	BEAD-SMD
3301-001885	L6010	BEAD-SMD
3301-002078	L6000	BEAD-SMD
3301-002078	L6001	BEAD-SMD
3301-002078	L6004	BEAD-SMD
3301-002078	L6008	BEAD-SMD
3301-002078	L6009	BEAD-SMD
3301-002078	L6011	BEAD-SMD
3301-002078	L6012	BEAD-SMD
3301-002078	L7000	BEAD-SMD
3301-002078	L7002	BEAD-SMD
3301-002078	R6013	BEAD-SMD

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3301-002122	L1031	BEAD-SMD
3301-002122	L1230	BEAD-SMD
3301-002122	L6002	BEAD-SMD
3301-002122	L6005	BEAD-SMD
3301-002223	L7001	BEAD-SMD
3301-002223	L7014	BEAD-SMD
3301-002237	L1000	BEAD-SMD
3301-002237	L3000	BEAD-SMD
3301-002237	L7004	BEAD-SMD
3301-002238	L2039	BEAD-SMD
3301-002238	L2042	BEAD-SMD
3301-002238	L3002	BEAD-SMD
3301-002238	L3009	BEAD-SMD
3301-002240	L2059	BEAD-SMD
3301-002240	L2061	BEAD-SMD
3301-002244	L3004	BEAD-SMD
3301-002254	L5000	BEAD-SMD
3301-002312	L2037	BEAD-SMD
3301-002312	L2040	BEAD-SMD
3301-002312	L2060	BEAD-SMD
3301-002312	L2062	BEAD-SMD
3301-002312	L4000	BEAD-SMD
3301-002312	L7003	BEAD-SMD
3301-002312	L7007	BEAD-SMD
3301-002312	L7008	BEAD-SMD
3301-002335	L6006	BEAD-SMD
3705-001708	CON1000	CONNECTOR-COAXIAL
3705-001708	CON1006	CONNECTOR-COAXIAL
3709-001880	CN5000	CONNECTOR-CARD EDGE
3709-001891	CN5001	CONNECTOR-CARD EDGE
3711-007107	HEA7000	SOCKET-BOARD TO BOARD
3711-007295	HDC7000	HEADER-BOARD TO BOARD
3711-008182	HEA7001	HEADER-BOARD TO BOARD
3711-008847	HDC5001	CONNECTOR-BATTERY
3711-009058	HEA6000	HEADER-BOARD TO BOARD
3712-001604	ANT5004	CONNECTOR-TERMINAL
3712-001604	ANT5006	CONNECTOR-TERMINAL
3712-001621	ANT1010	CONNECTOR-TERMINAL
3712-001621	ANT1011	CONNECTOR-TERMINAL

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3712-001621	ANT1012	CONNECTOR-TERMINAL
3712-001621	ANT1014	CONNECTOR-TERMINAL
3712-001621	ANT1015	CONNECTOR-TERMINAL
3712-001621	ANT1016	CONNECTOR-TERMINAL
3712-001621	ANT3000	CONNECTOR-TERMINAL
3712-001621	ANT3001	CONNECTOR-TERMINAL
3712-001621	ANT3003	CONNECTOR-TERMINAL
3712-001621	ANT3004	CONNECTOR-TERMINAL
3712-001621	ANT5003	CONNECTOR-TERMINAL
3712-001621	ANT5007	CONNECTOR-TERMINAL
3712-001621	ANT6000	CONNECTOR-TERMINAL
3712-001621	ANT6005	CONNECTOR-TERMINAL
3712-001621	CON5001	CONNECTOR-TERMINAL
3712-001621	CON5002	CONNECTOR-TERMINAL
3712-001621	CON5003	CONNECTOR-TERMINAL
3712-001666	ANT6001	CONNECTOR-TERMINAL
3712-001666	ANT6004	CONNECTOR-TERMINAL
3712-001749	ANT1000	CONNECTOR-TERMINAL
3712-001749	ANT1001	CONNECTOR-TERMINAL
3712-001749	ANT1002	CONNECTOR-TERMINAL
3712-001749	ANT1003	CONNECTOR-TERMINAL
3712-001749	ANT1004	CONNECTOR-TERMINAL
3712-001749	ANT1005	CONNECTOR-TERMINAL
3712-001749	ANT1006	CONNECTOR-TERMINAL
3712-001749	ANT1007	CONNECTOR-TERMINAL
3712-001749	ANT1008	CONNECTOR-TERMINAL
3712-001749	ANT1009	CONNECTOR-TERMINAL
3712-001749	ANT1013	CONNECTOR-TERMINAL
3712-001749	ANT1018	CONNECTOR-TERMINAL
3712-001749	ANT2001	CONNECTOR-TERMINAL
3712-001749	ANT2002	CONNECTOR-TERMINAL
3712-001749	ANT2003	CONNECTOR-TERMINAL
3712-001749	ANT2004	CONNECTOR-TERMINAL
3712-001749	ANT2005	CONNECTOR-TERMINAL
3712-001749	ANT3005	CONNECTOR-TERMINAL
3712-001749	ANT3006	CONNECTOR-TERMINAL
3712-001750	ANT6002	CONNECTOR-TERMINAL
3712-001750	ANT6003	CONNECTOR-TERMINAL
3722-003954	IFC5000	JACK-MICRO USB

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5. MAIN Electrical Parts List

3722-004081	CN6000	JACK-EAR PHONE
4709-002187	F1002	COUPLER-DIRECTION
4709-002193	F1001	COUPLER-DIRECTION
4709-002351	F3001	FREQ-DISTRIBUTER
4709-002452	F2009	FREQ-DISTRIBUTER
4709-002464	F1000	FREQ-DISTRIBUTER
4709-002464	F2004	FREQ-DISTRIBUTER
GH02-14867A	SC7004SP	THERMAL CONDUCTIVE SHEET-AP
GH41-05270A		PCB MAIN-SM-J530FM
GH61-08266A	SUS7003	PLATE-SMD B
GH61-12649A	SUS7001	PLATE-PCB SUS
GH63-08401A	SUS7000	SHIELD-STS PAD
GH63-08401A	SUS7002	SHIELD-STS PAD
GH63-08401A	SUS7004	SHIELD-STS PAD
GH63-12874A	SC7000	SHIELD-BOT APT
GH63-12874A	SC7007	SHIELD-BOT APT
GH63-14084A	SC7004	SHIELD-CAN AP
GH63-14086A	SC7002	SHIELD-CAN PMIC
GH63-14087A	SC7005	SHIELD-CAN RF
GH63-14110A	SC7001	SHIELD-IFPMIC J5
GH63-14111A	SC7008	SHIELD-WIFI J5
GH63-14521A	SC7003	SHIELD-TOUCH IC
GH63-14644A	SC7006	SHIELD-OCTA

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

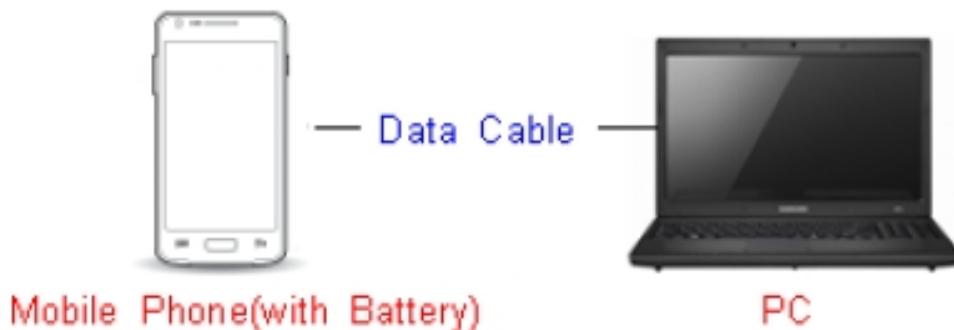
6. Level 1 Repair

6-1. S/W installation

6-1-1. Required items in order to install S/W

- Installation program: Downloader Program ([Odin3 v3.12.5.exe](#))
- Mobile Phone
- Data Cable
- Mobile device specific S/W: Binary files

※ Settings

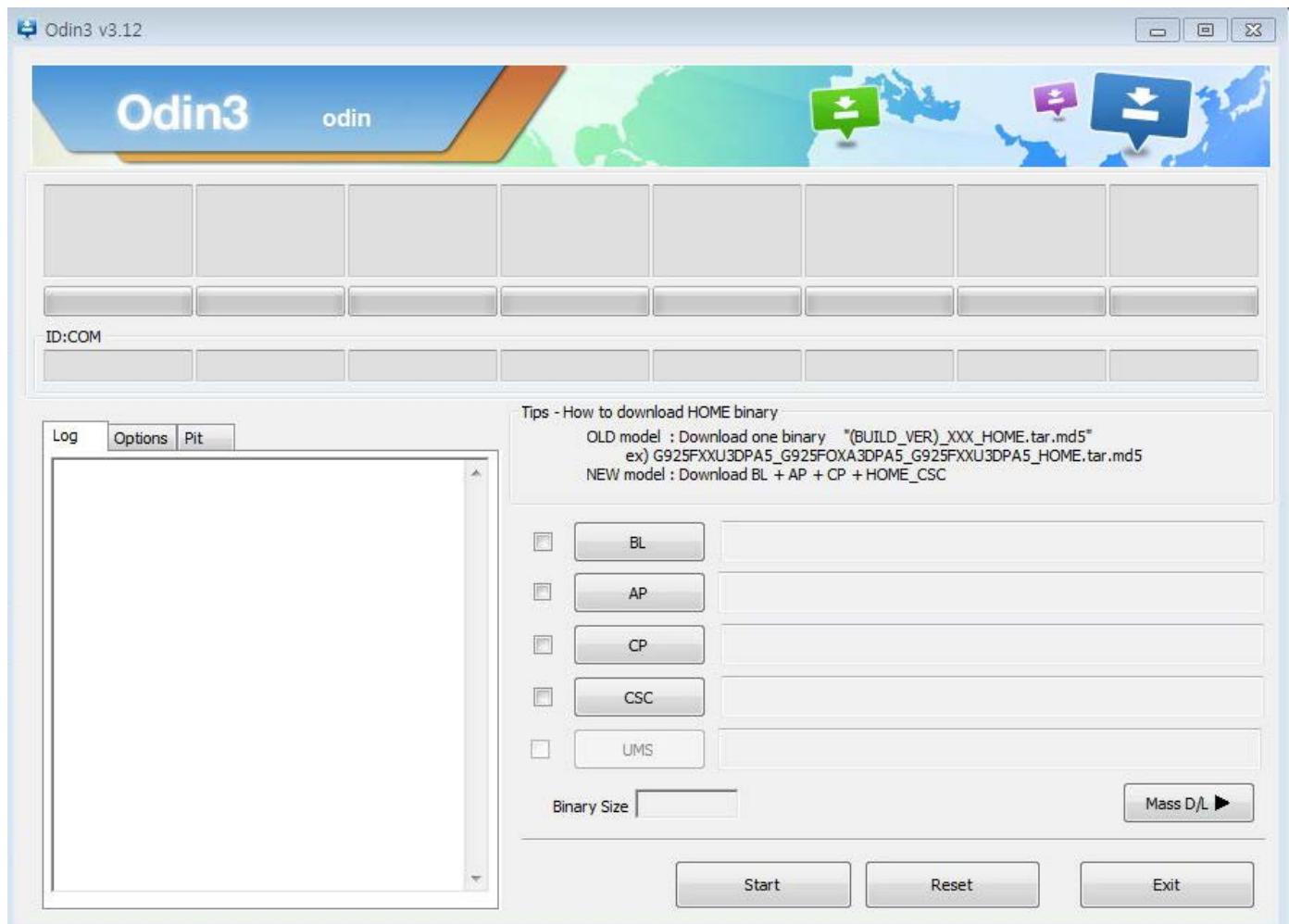


Data Cable : GH39-01710D

6. Level 1 Repair

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

- Open up the S/W Installation Program by executing the "[Odin3 v3.12.5.exe](#)"

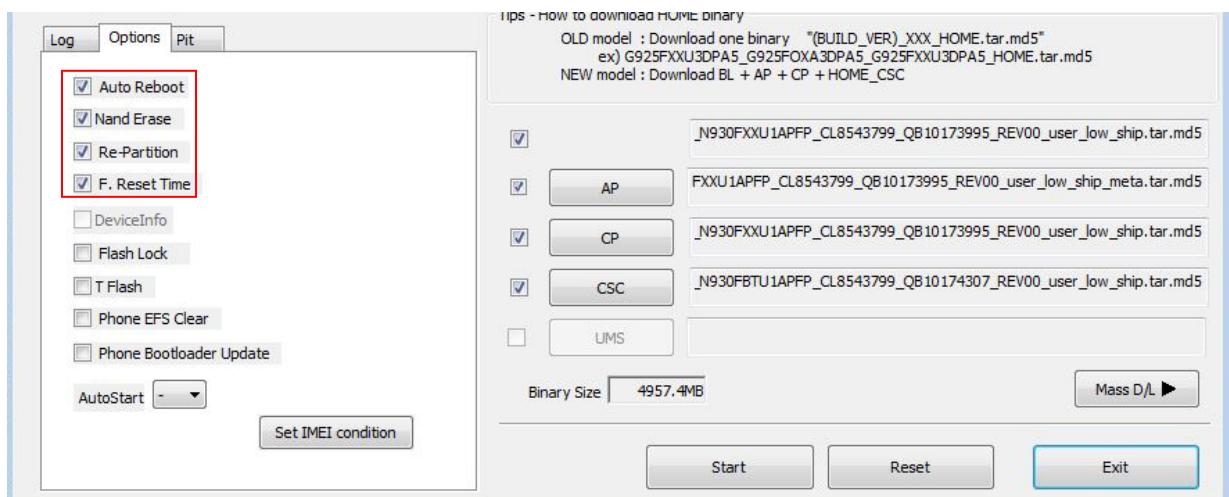
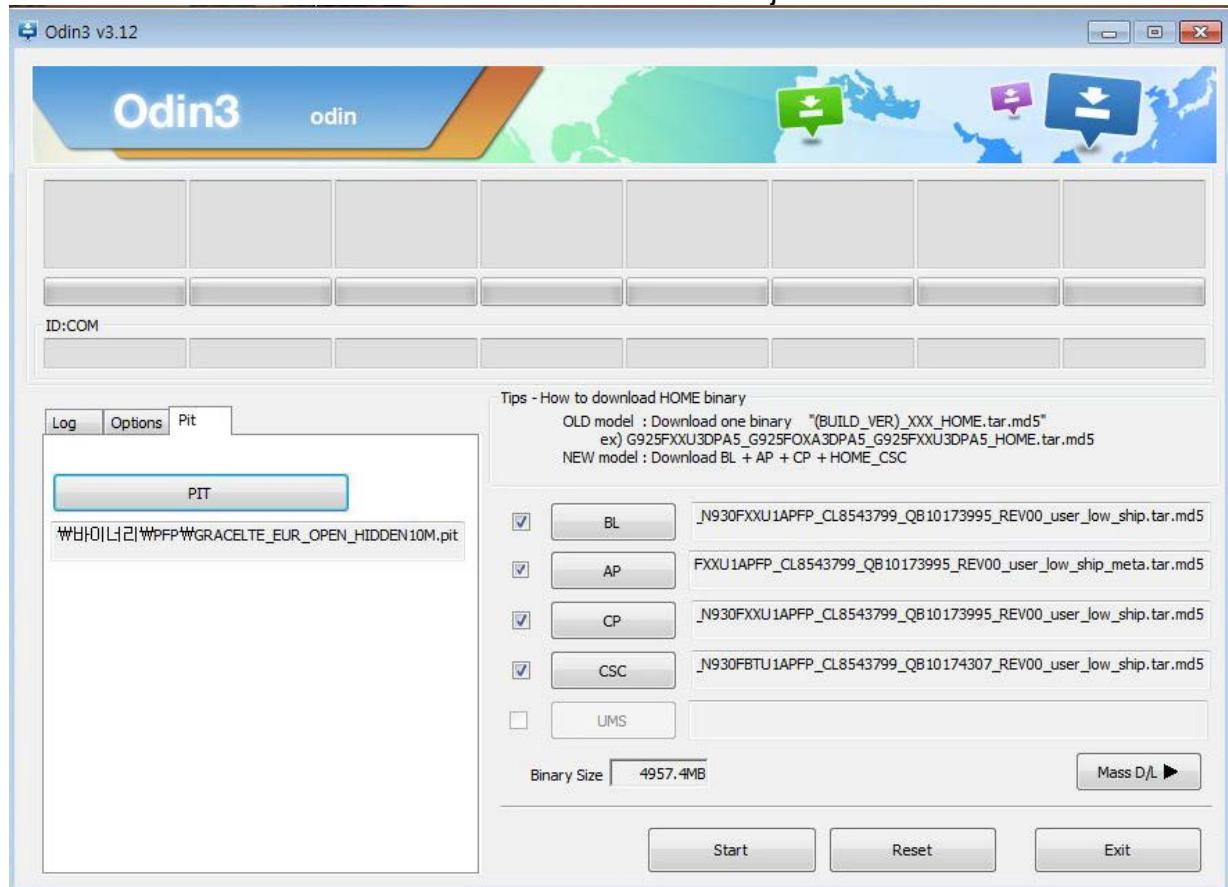


6. Level 1 Repair

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

- Check Auto Reboot, Re-Partition, and F. Reset Time-
- Check PIT
- Check Nand Erase All
- Check BL, AP, CP, and CSC Files

* Note : "Odin v3.12 or above" checks MD5 checksum just after file selection.



6. Level 1 Repair

2. Enter into Download Mode

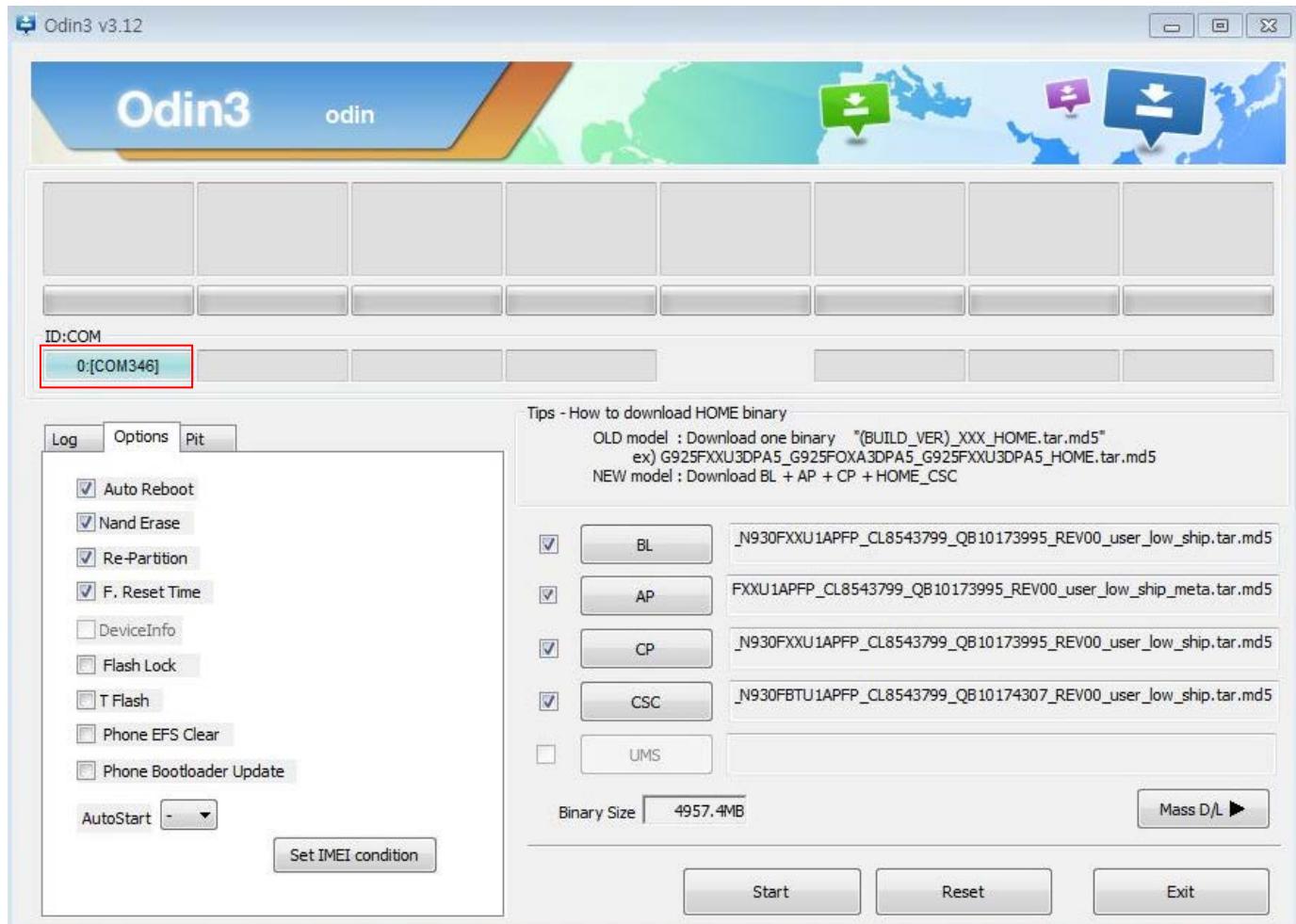
- Enter into Download Mode by pressing Home button, Volume Down button and Power On/Off Button simultaneously followed by pressing Volume up button as a direction of the phone.



6. Level 1 Repair

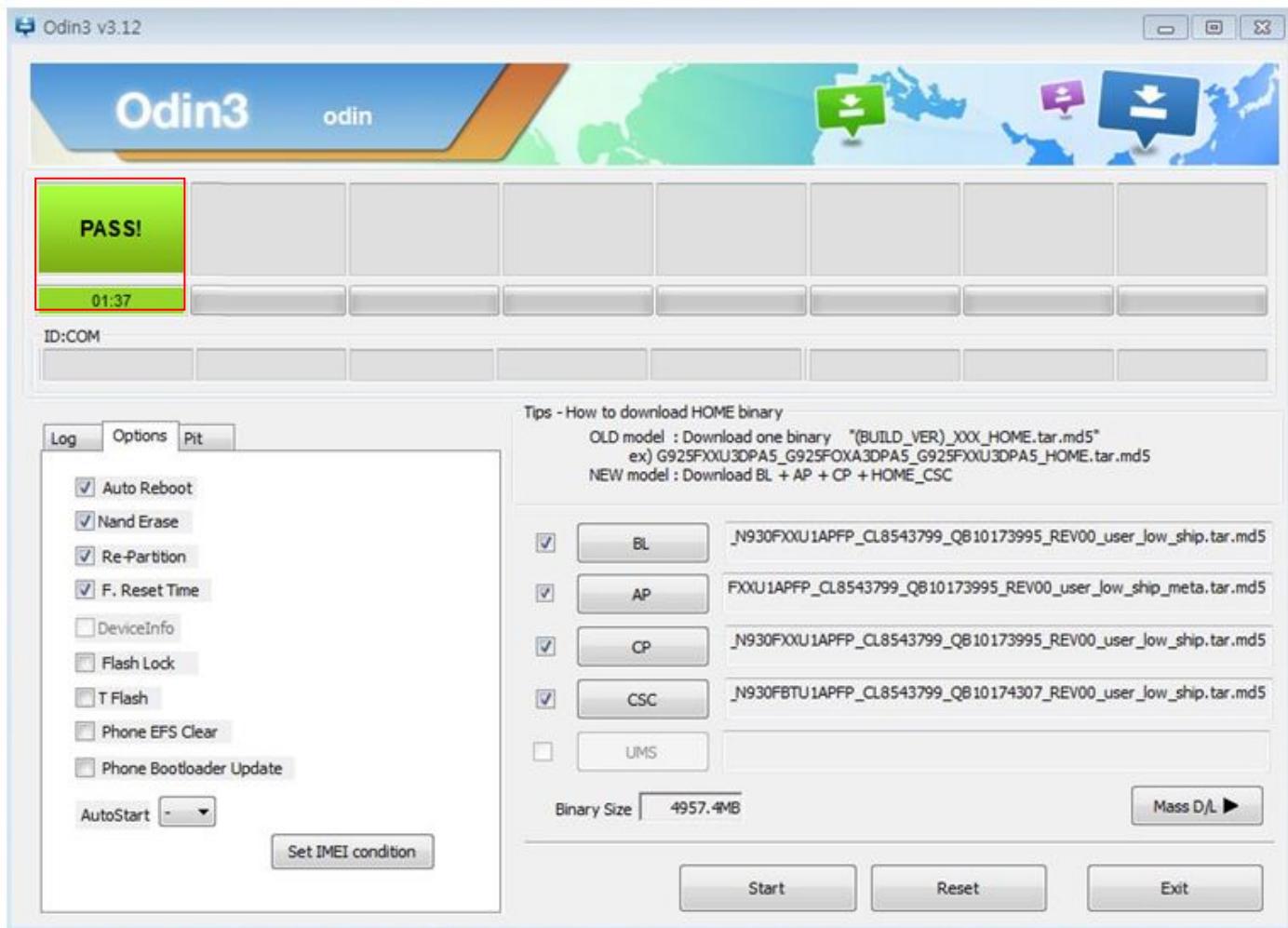
3. Connect the device to PC via Data Cable.

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 Reset by Settings → Accounts → Backup and reset

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

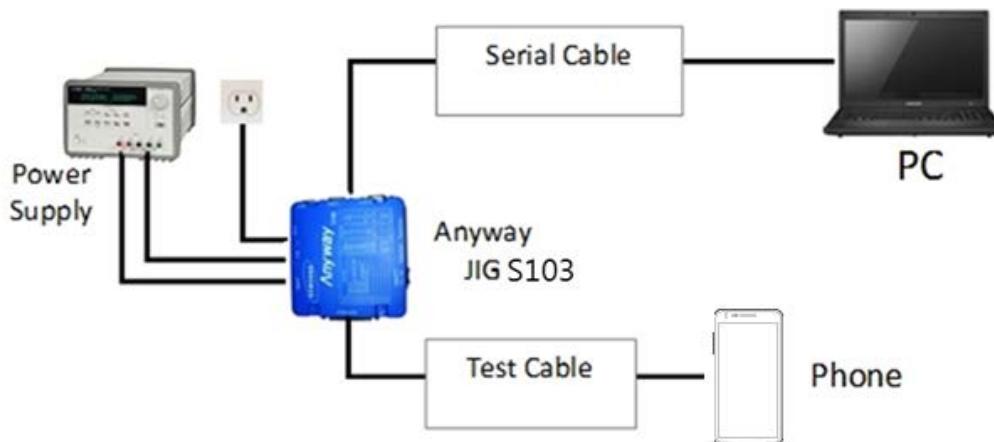
6. Level 1 Repair

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



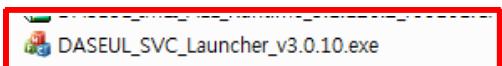
- S/W

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_25 or higher -Uploaded on HHPsvc Notice
③ Runtime File	1. DASEUL_Runtime_Ver_3.1.299.0.CAB or higher -Uploaded on HHPsvc Notice 2. Make ‘ModelName’ folder at the same position with launcher & Runtime file.
④ Model File	Copy Model File under the ‘Model Name’ folder

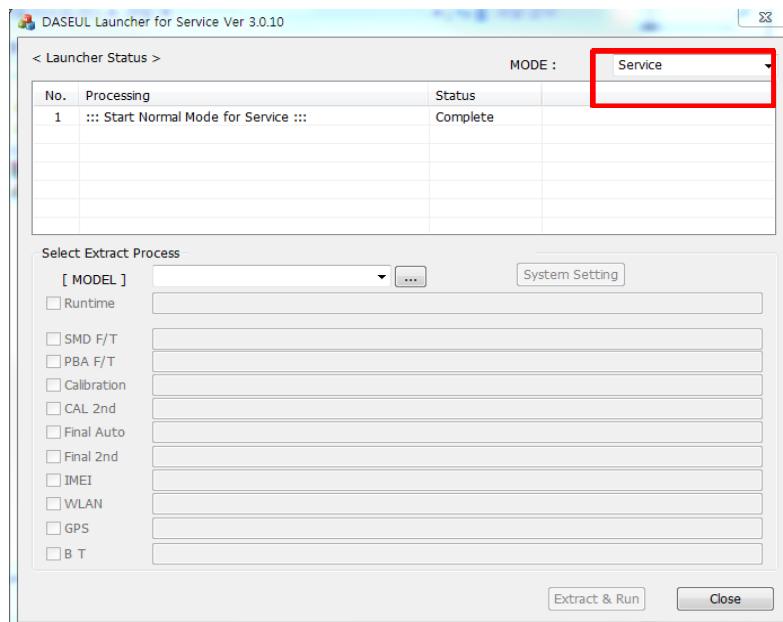
6. Level 1 Repair

6-2-2 IMEI writing Process

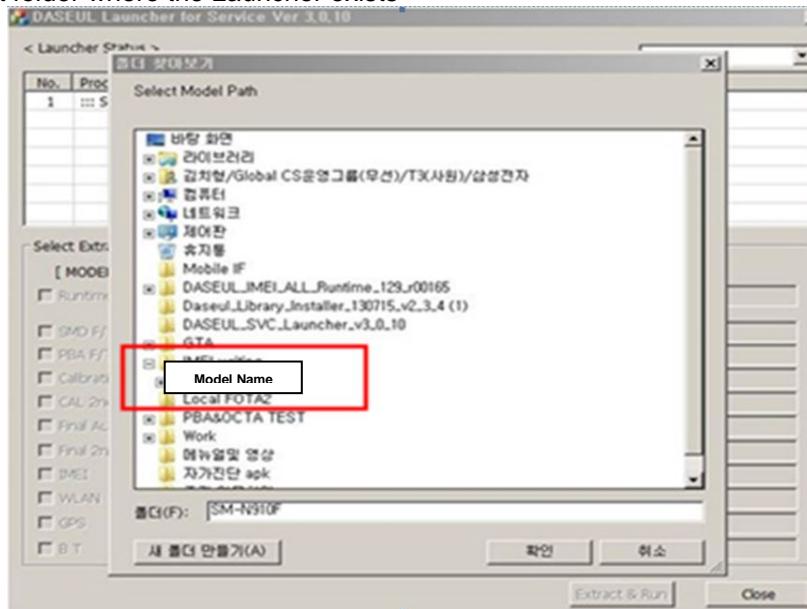
1. Run DASEUL_SVC_Launcher_v3.0.10.exe



2. Select Service Mode

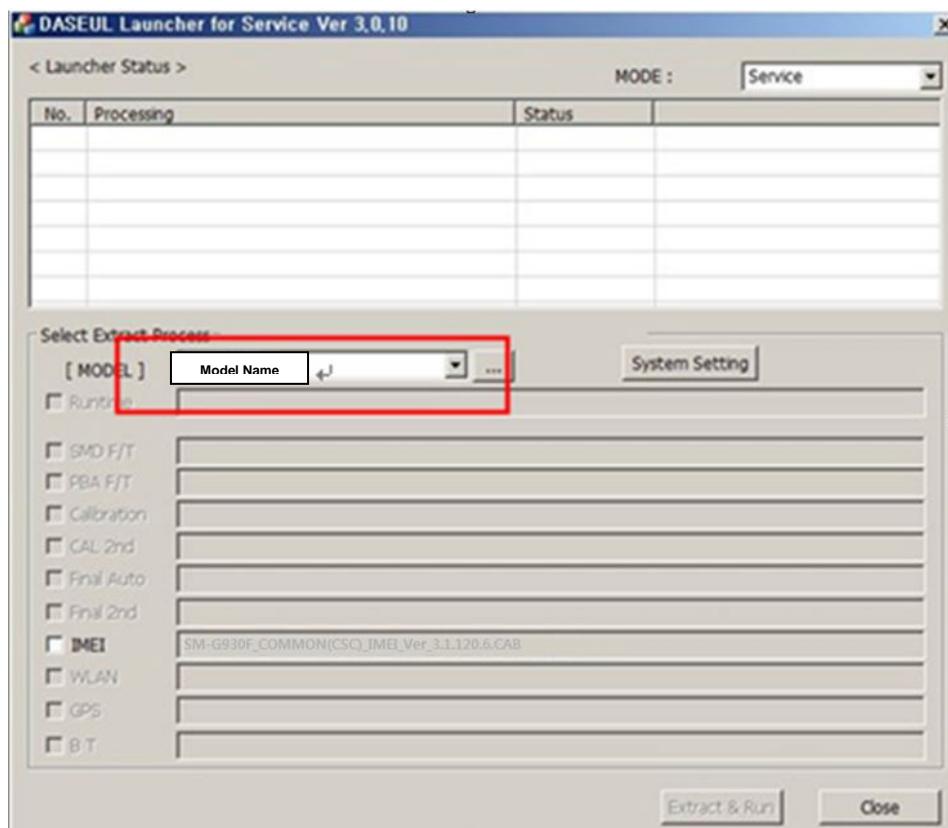


3. Click and Select folder where the Launcher exists



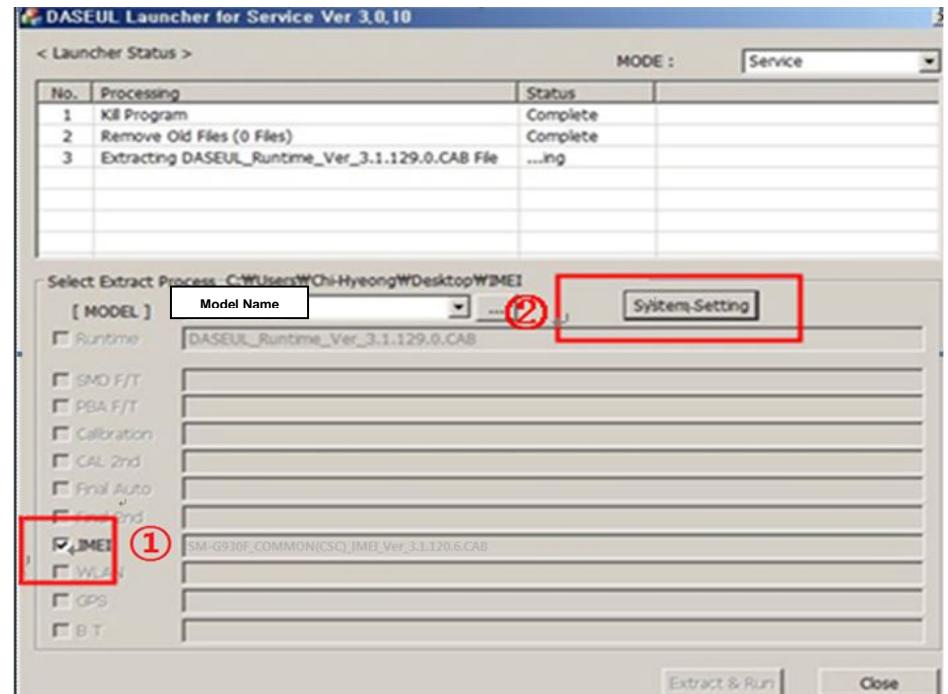
6. Level 1 Repair

4. Select Model



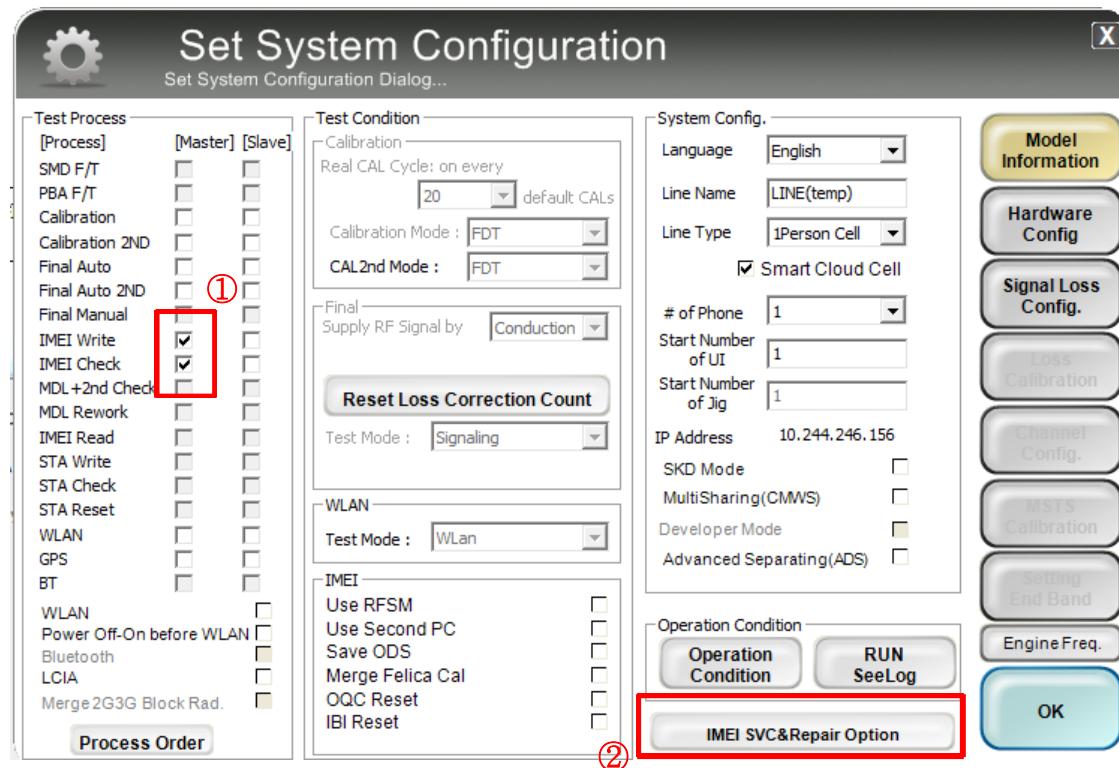
5. Check IMEI and click System Setting

*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.

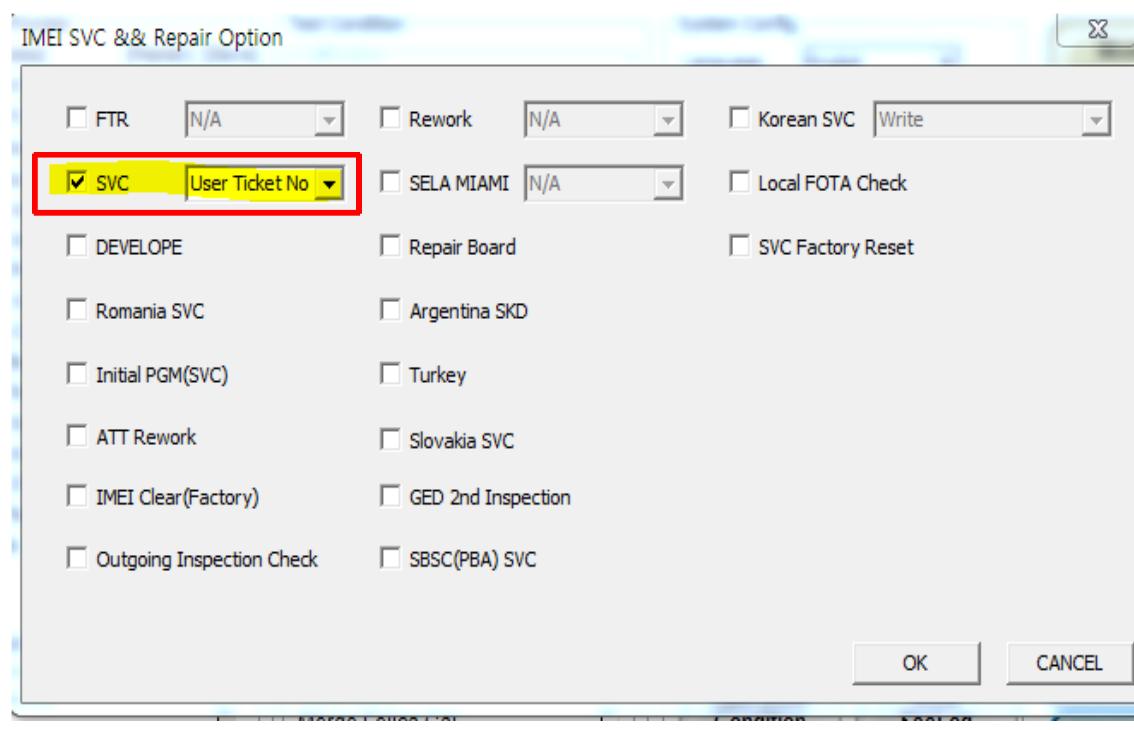


6. Level 1 Repair

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

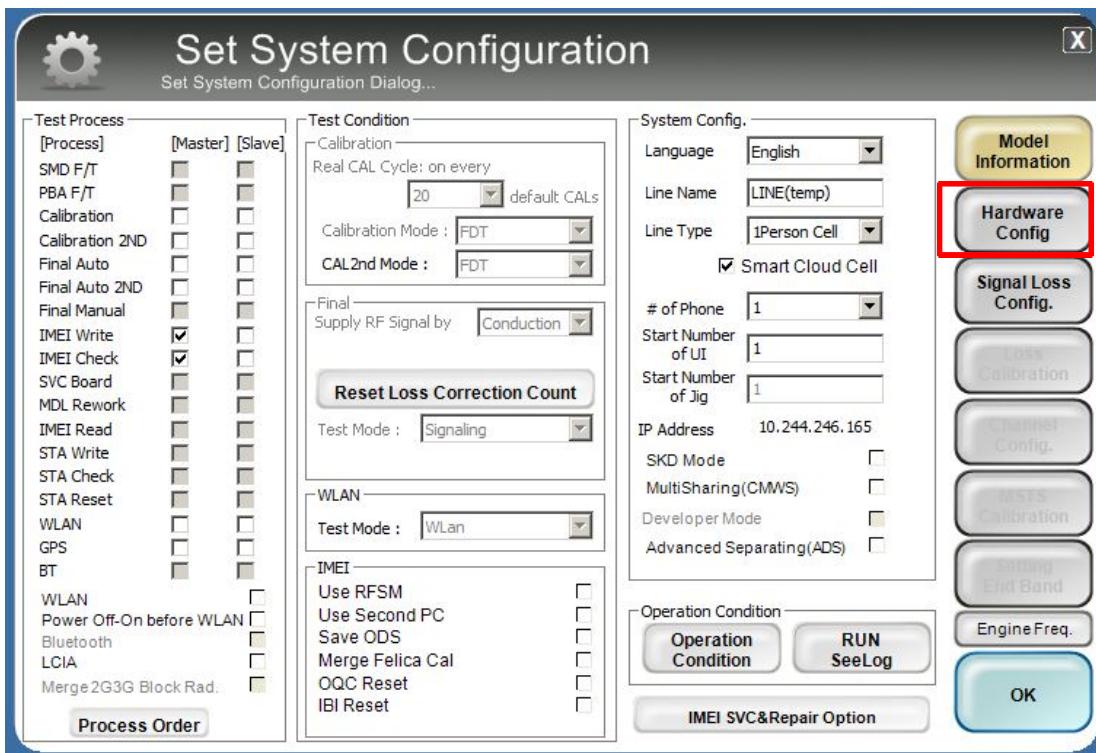


7. Check SVC , User Ticket No and click OK

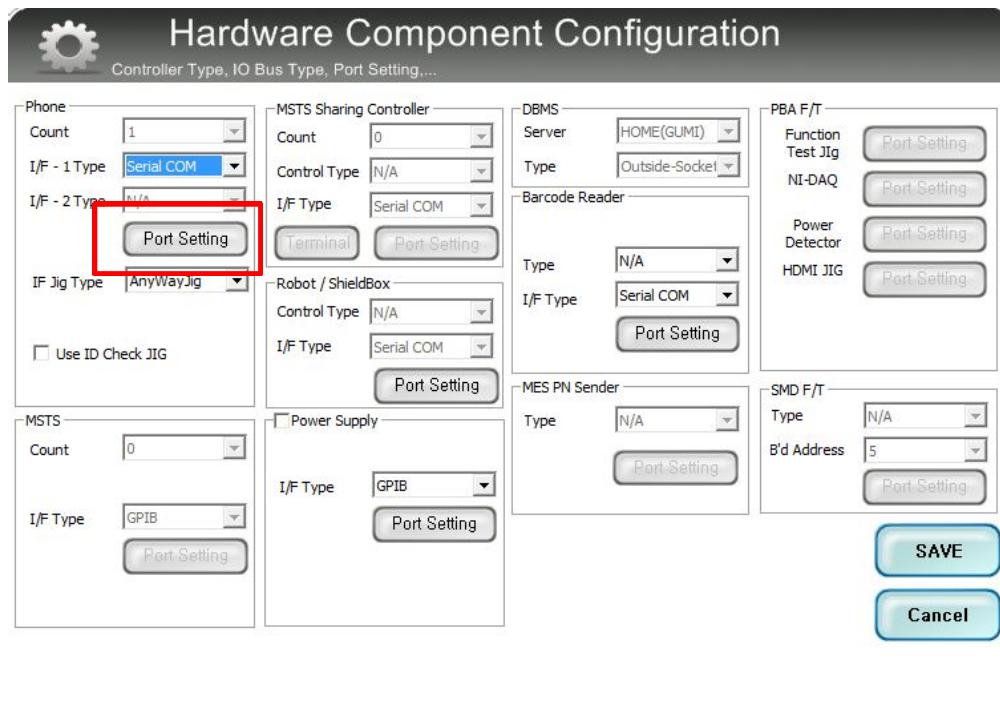


6. Level 1 Repair

8. Click Hardware Config

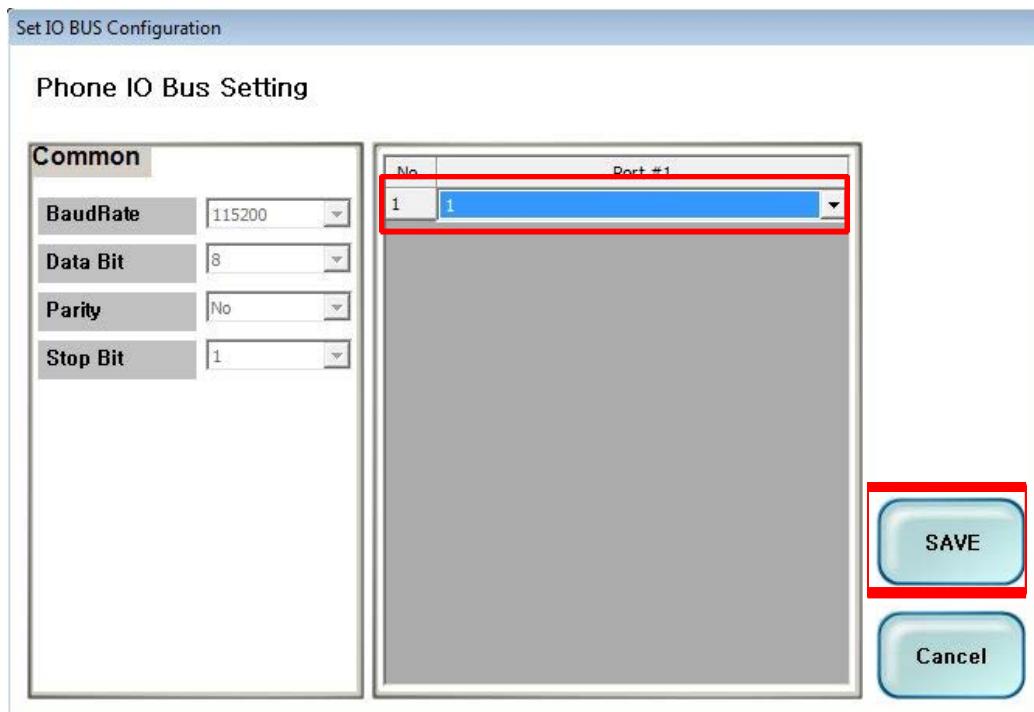


9. Click Port Setting

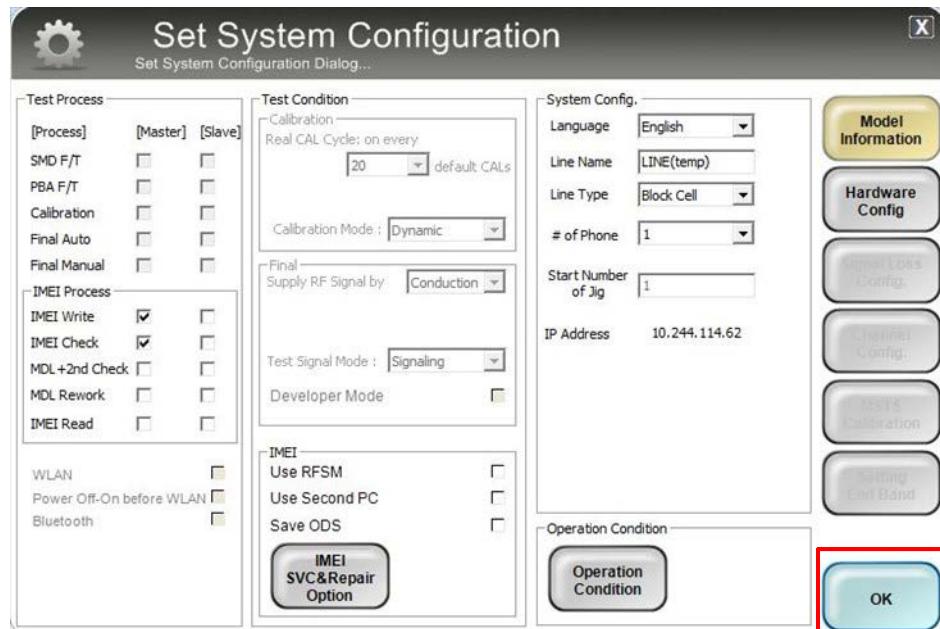


6. Level 1 Repair

10. Select Port Number and SAVE

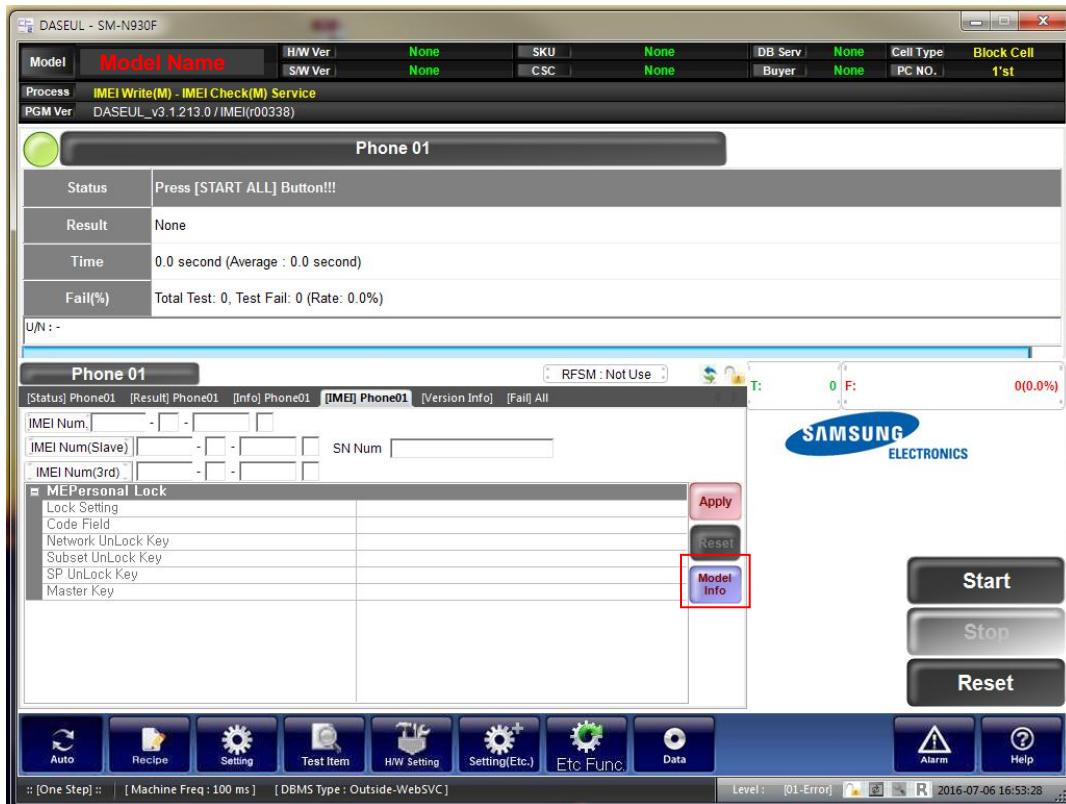


11. Click OK to proceed

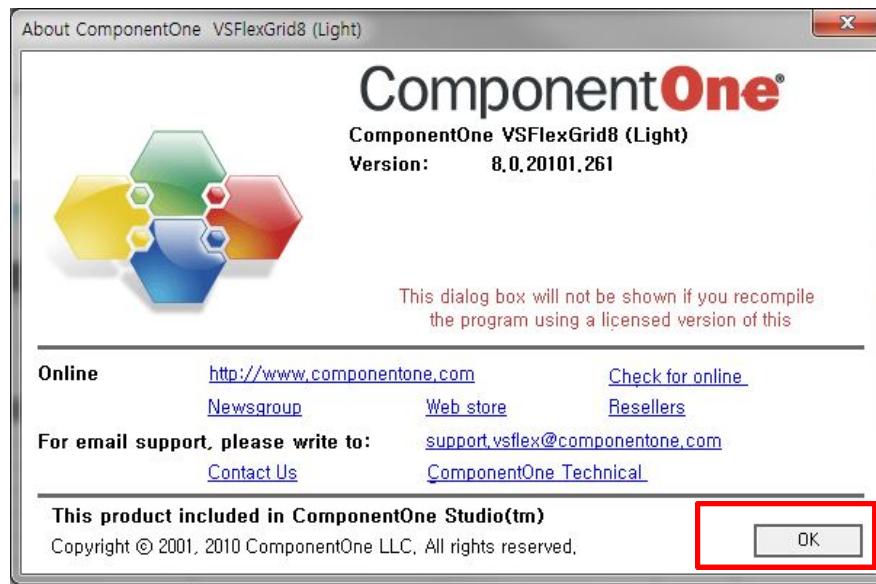


6. Level 1 Repair

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



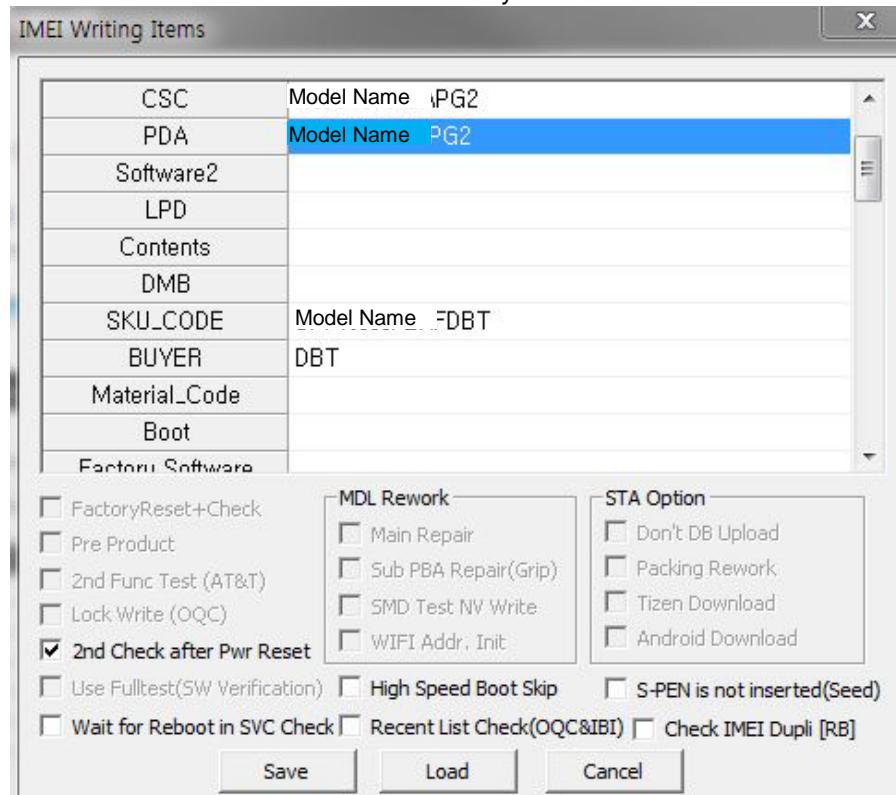
13. Click OK



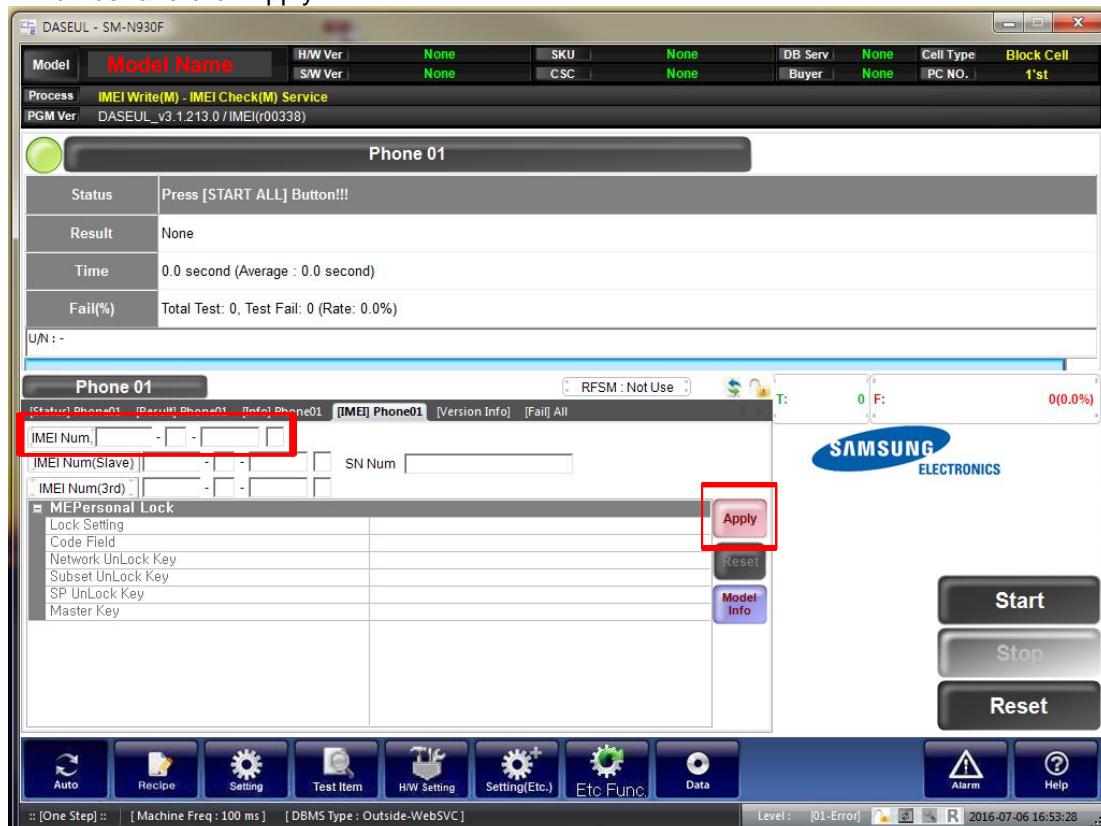
6. Level 1 Repair

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

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

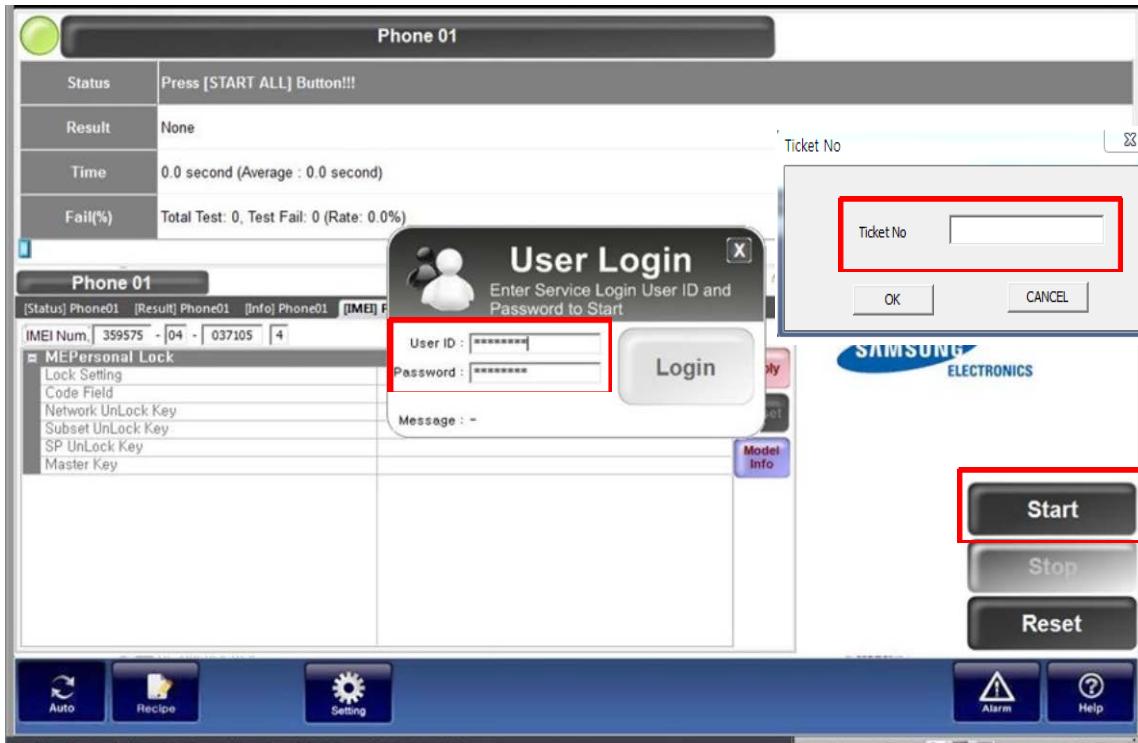


15. Input IMEI Number and click Apply



6. Level 1 Repair

16. ① Click Start, and input IMEI writing ID and Password →②input Ticket No

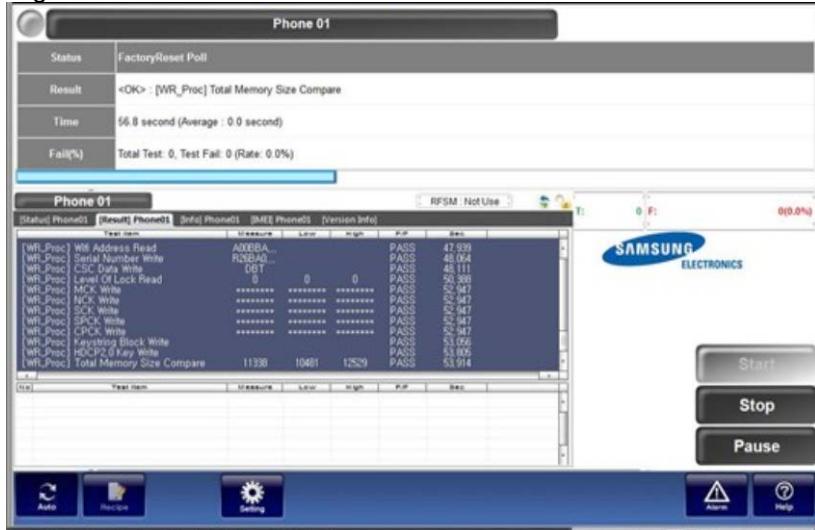


17. Connect the phone to Anyway JIG

* When you connect the phone, the phone should be turned off.

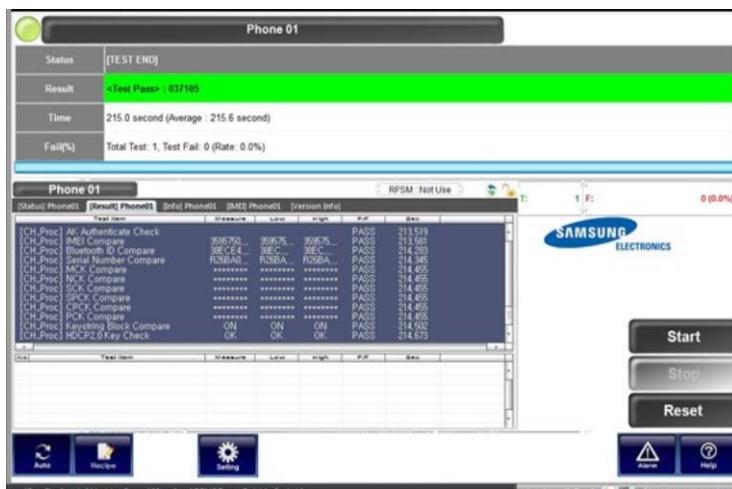
After connecting the phone, the phone will be booted automatically.

18. IMEI Writing Proceeding



6. Level 1 Repair

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_3.1.298.3.CAB](#))

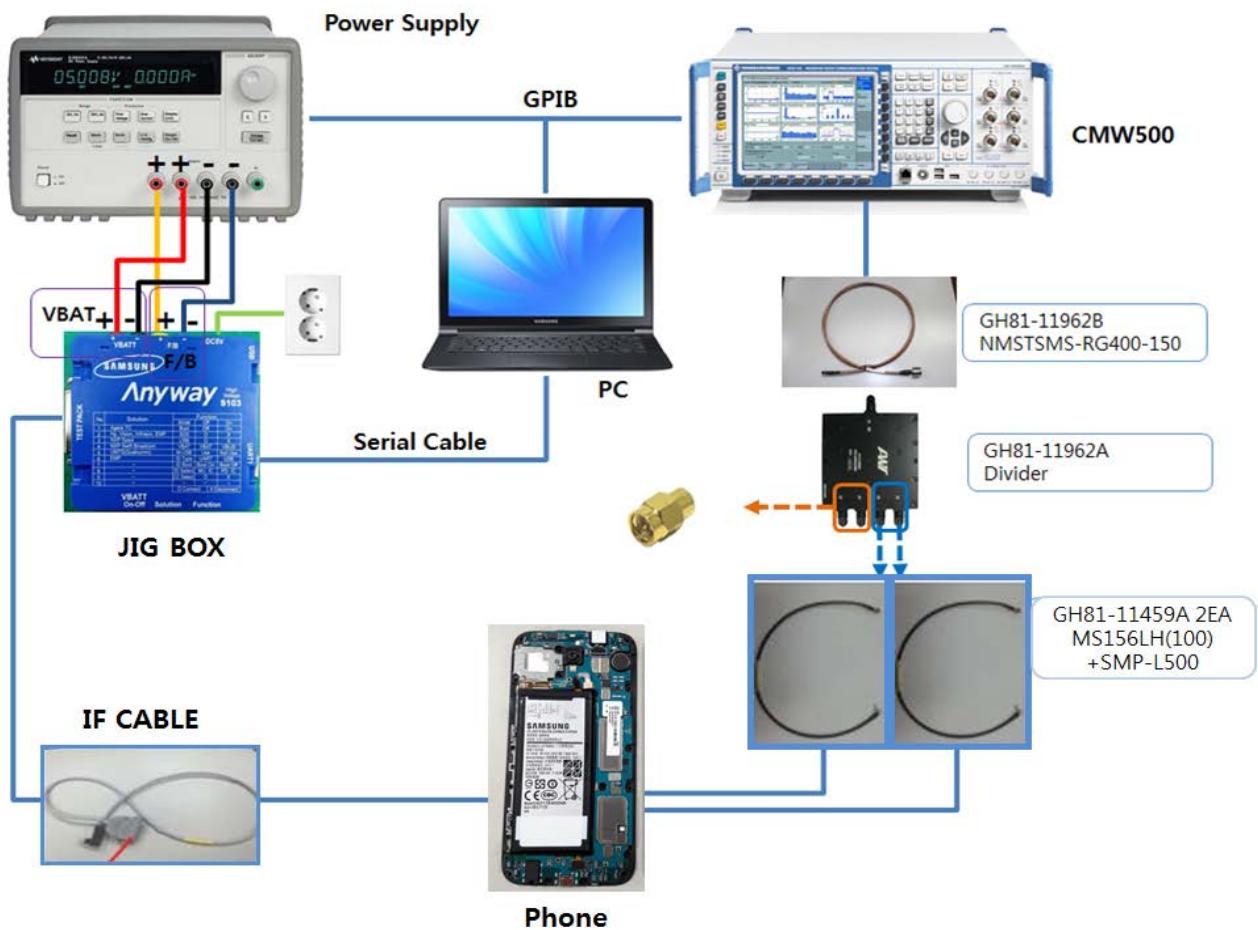
* It is required to use the latest program.

- Mobile Phone
- R&S CMW500
- E3632A Power Supply
- GPIB Cable (2ea)
- JIG BOX (GH81-12520B)
- IF Cable (GH81-10952A)
- Adapter (GH81-11888K)
- UART Serial Cable
- RF Cable (GH81-11962D, 2EA)

- **Table of test cables**

RF Cable (Manual)	GH81-11459A		
	1.35T Long 		
4 Port Divider	GH81-11962A 	GH81-11962B 	GH81-11962E 
	Use / No use	Divider Cable	

6. Level 1 Repair



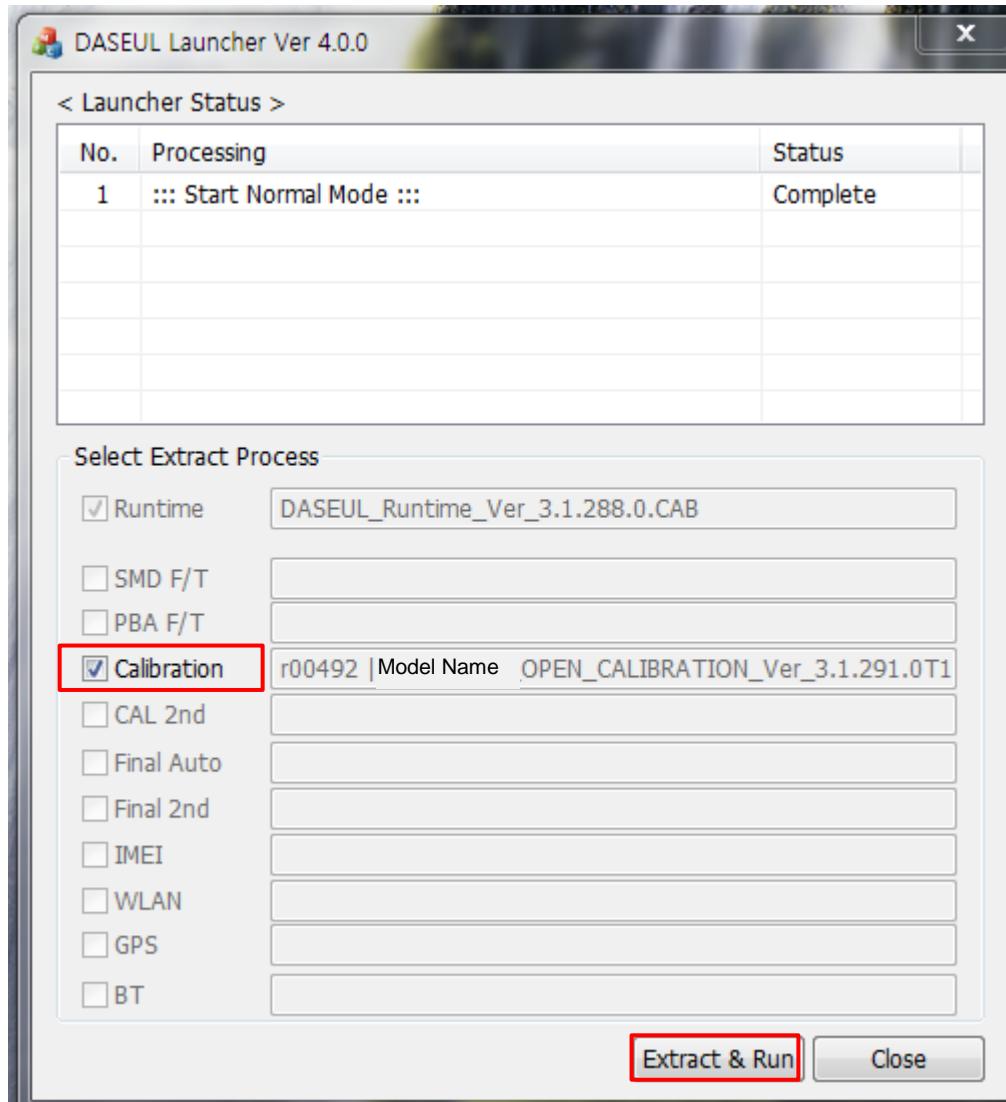
6. Level 1 Repair

6-3-2. RF Calibration Program

1. Run the RF Calibration Program Launcher, 'DASEUL_Launcher_vx.x.xx.exe'.

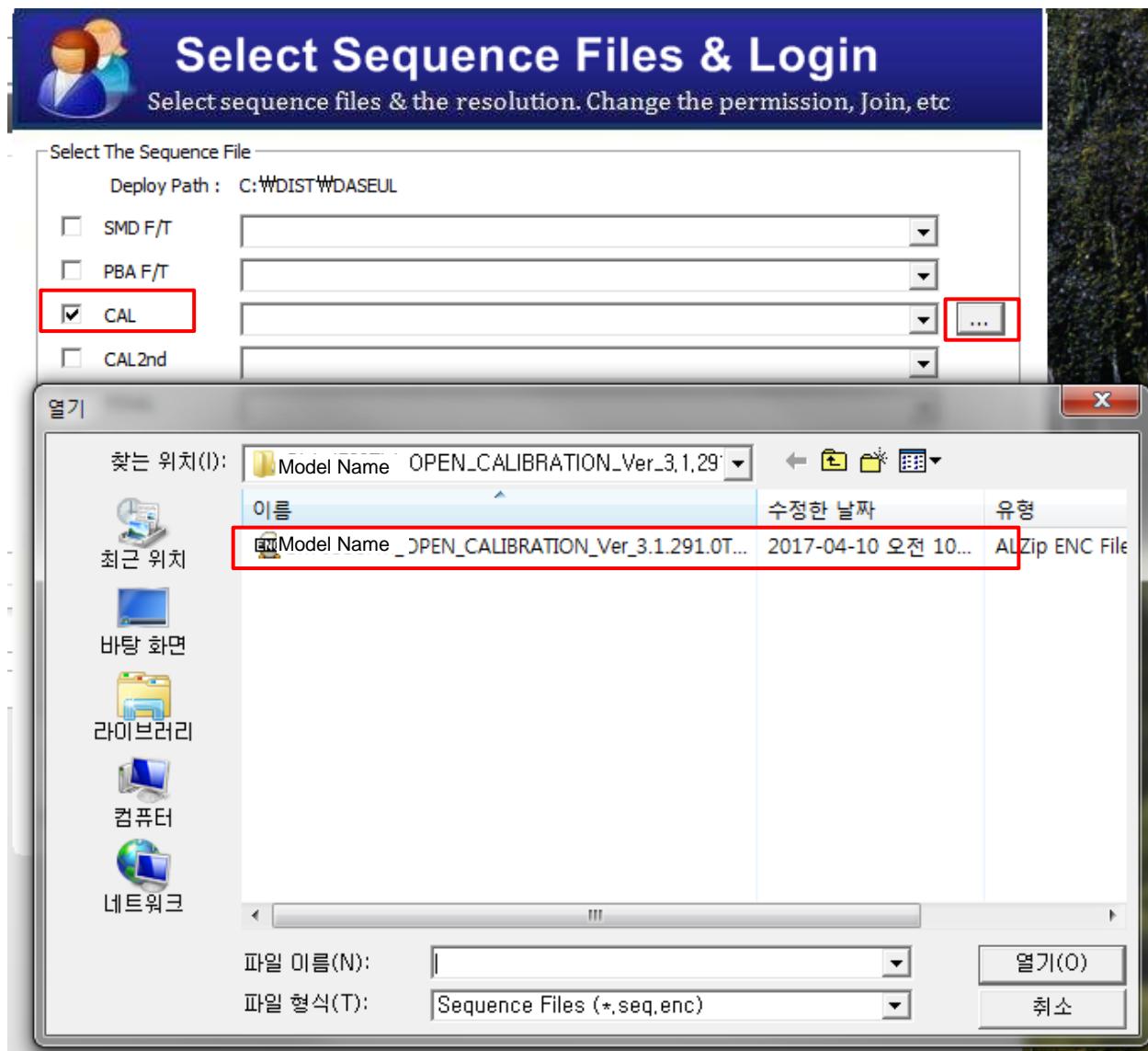
DASEUL_CAL_ALL_Runtime_3.1.257.0_r00455.CAB
 DASEUL_Launcher_v4.0.0.exe
 SM-J530FM OPEN_CALIBRATION_Ver_3.1.257.1.CAB

2. Check the 'Calibration' menu, and select 'Extract & Run'.



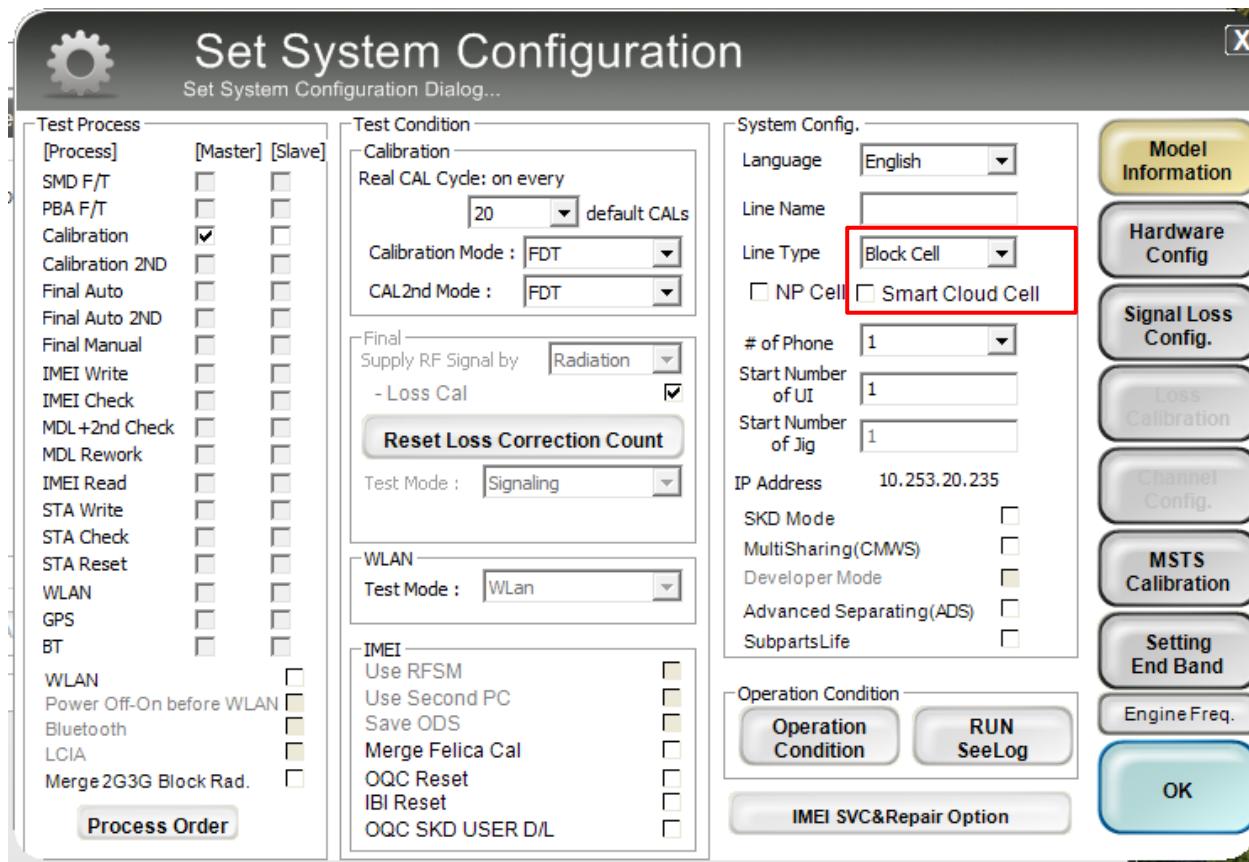
6. Level 1 Repair

3. Check the 'CAL' and open the model file, then select 'Start' button.



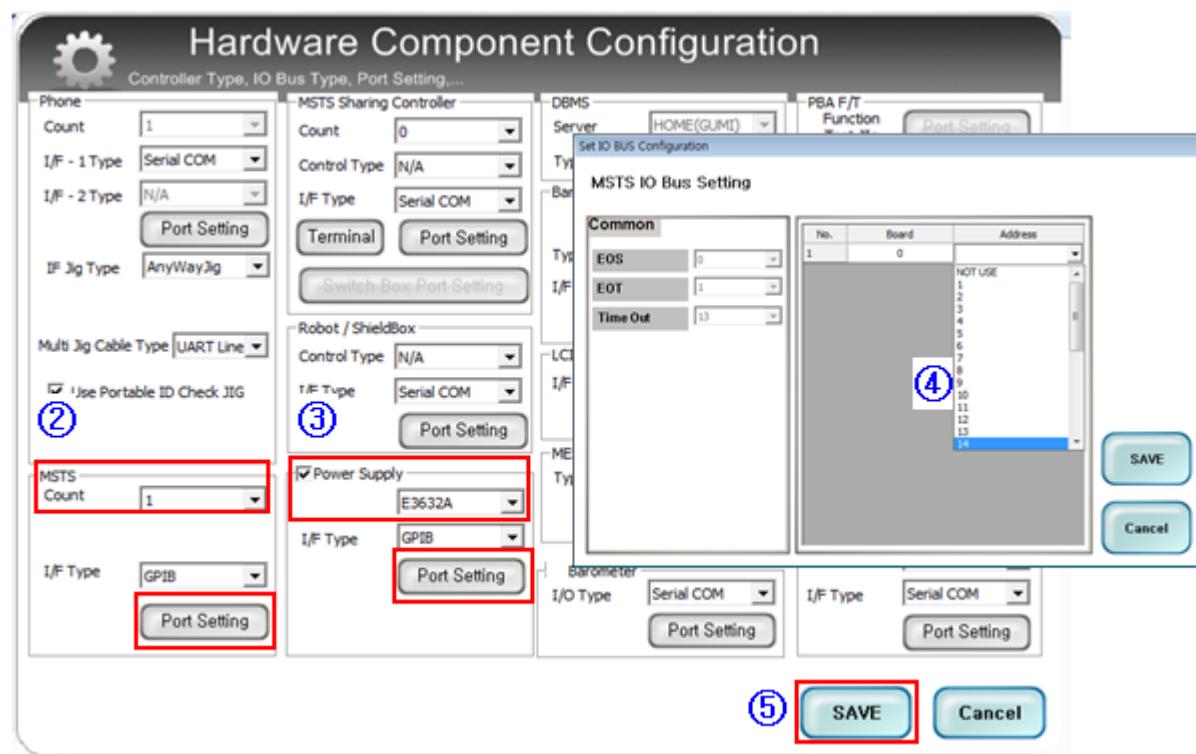
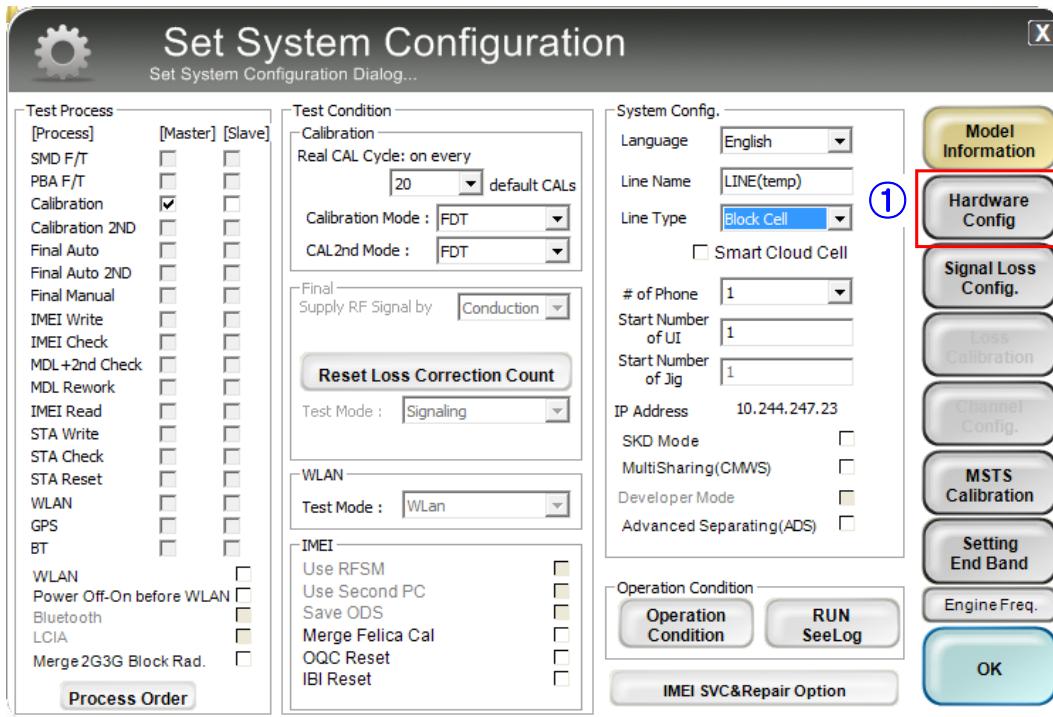
6. Level 1 Repair

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



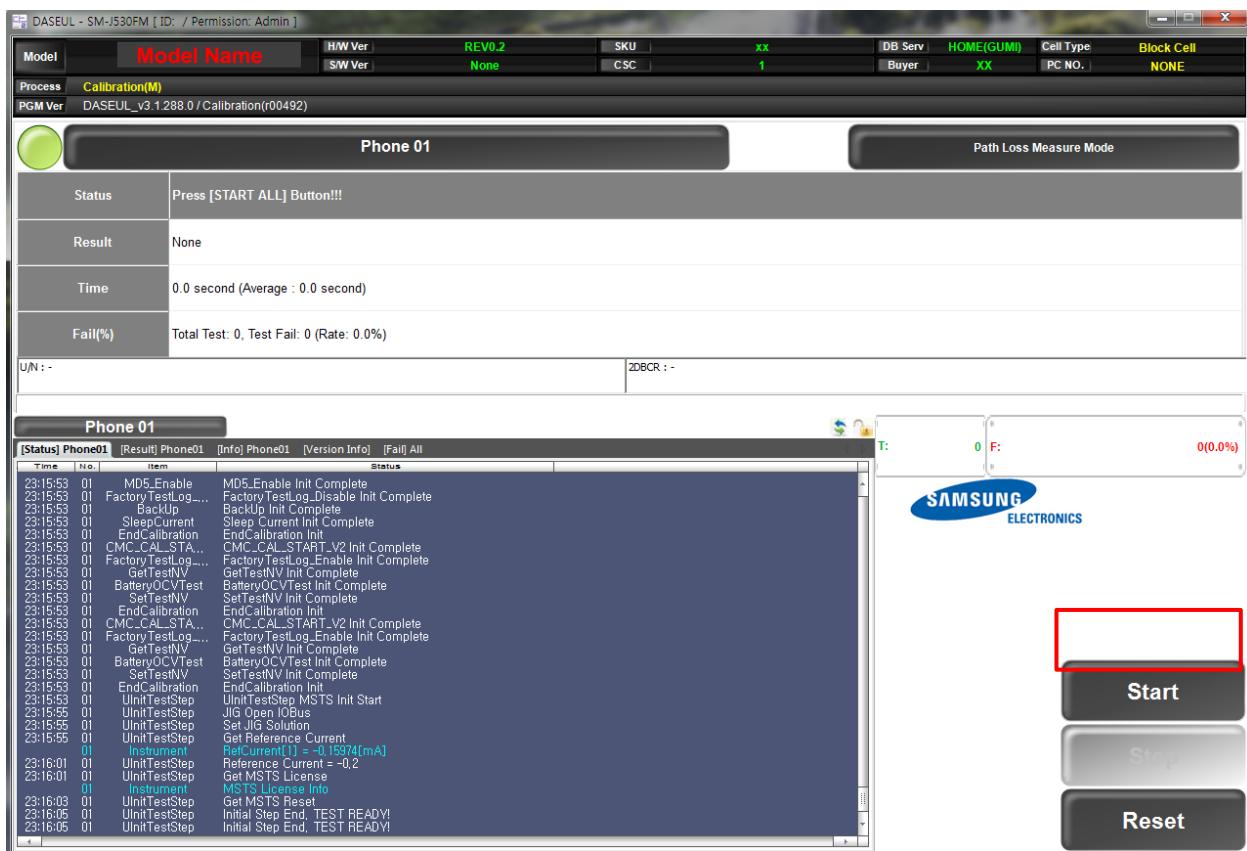
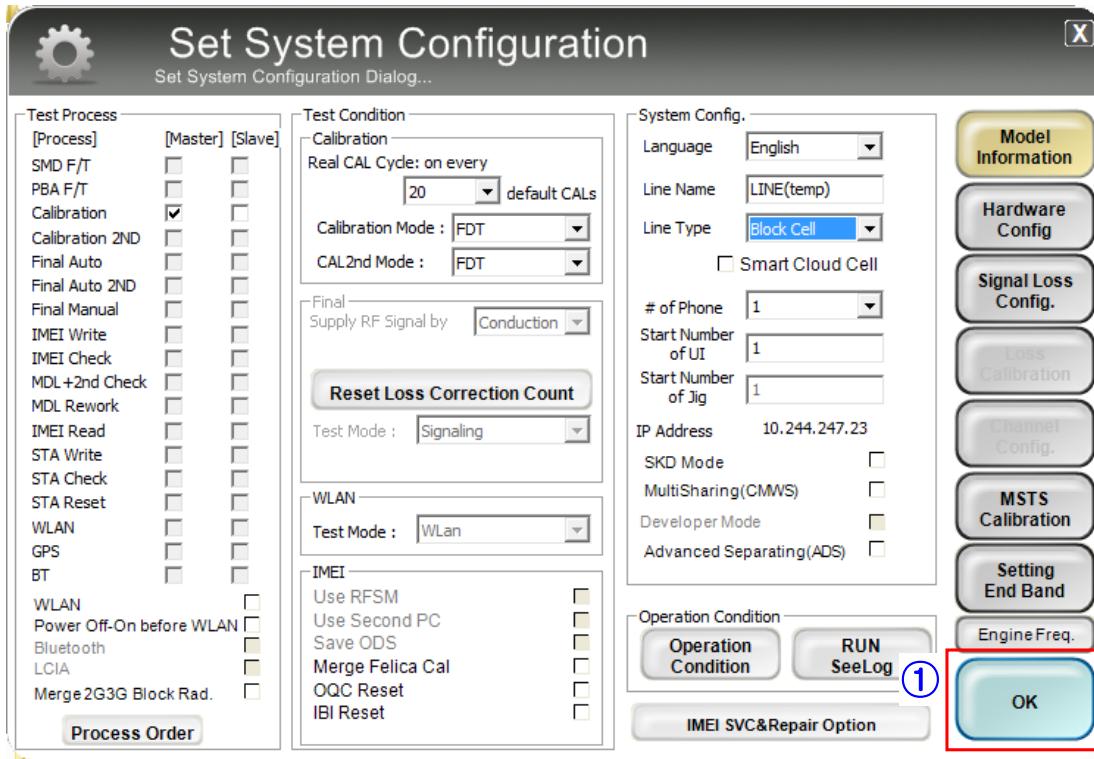
6. Level 1 Repair

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)



6. Level 1 Repair

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



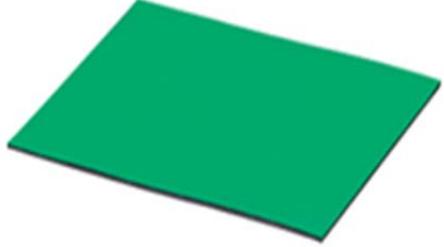
7. Level 2 Repair

7-1. Components on the Rear Case



7. Level 2 Repair

7-2. Pre-requisite

	
Tweezers / Disass'y Stick / 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
WINDOW TAP TOP/BTM TOP : [GH02-14894A] BTM : [GH02-14896A]		
HR TAPE [GH02-14909A]		Whenever the device Is disassembled and reassembled
A/S Touch Key OCTA Tape [GH81-14737A]		

7. Level 2 Repair

7-4. Disassembly

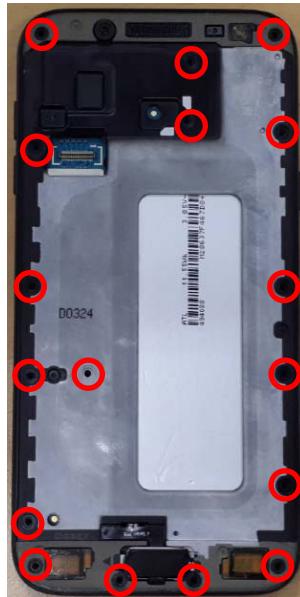
1

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



2

- Disassemble SIM Tray 1,2 from device.
Unscrew 17 Points.



※ Caution

- 1) Be careful not to damage set and OCTA.

3

- Disassemble the REAR.



※ Caution

- 1) Be care of scratch and molding damage.

4

- Unscrew 2 Points of PBA and disassemble Home key / Battery connector.



※ Caution

- 1) Be care of damage to components.

※ Caution

- 1) Be careful not to damage the PBA.

7. Level 2 Repair

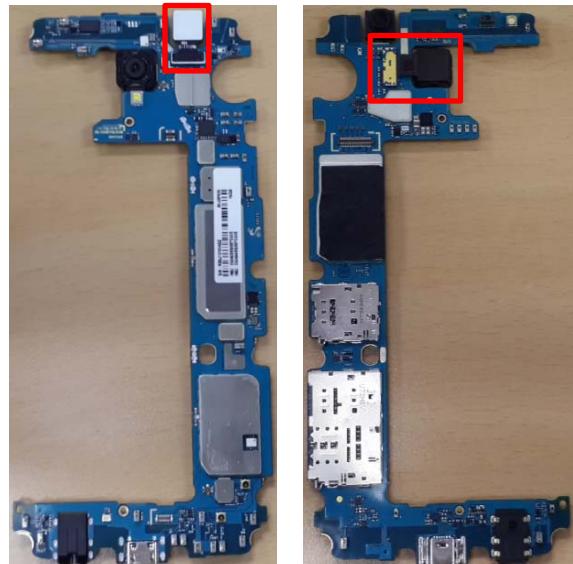
5

Disassemble PBA / Front.



6

Disassemble Front & Rear Camera.



* Caution

- 1) Be careful not to damage the PBA.

7

Unscrew 3 points.
Disassemble Speaker.



* Caution

- 1) Be careful not to damage the speaker.

7. Level 2 Repair

7-5. Assembly

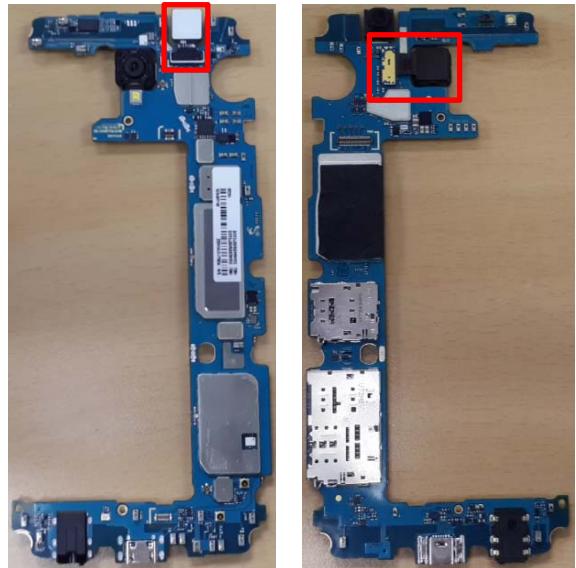
1

Assemble speaker in Front.
Screw 3 points.
Torque : 1.0 Kgf·cm±7%, 1.4*3.0



2

Assemble Front & Rear Camera.



※ Caution

1) Be careful not to damage the speaker.

3

Assemble PBA on Front.
Attach Home key and Battery Connector.



4

Screw 2 points of the PBA.
Torque : 1.0 Kgf·cm±7%, 1.2*2.5



※ Caution

1) Be care of FPCB damage.

※ Caution

1) Be careful not to damage the PBA.

7. Level 2 Repair

5

Assemble Front assy on REAR vertically.



6

Screw 17 points of the Front.
Torque : 0.9 Kgf·cm±7%, 1.6*3.7

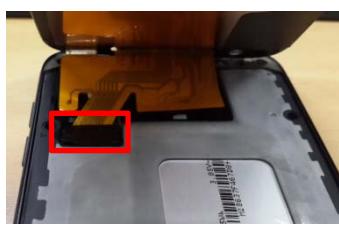


* Caution

- 1) Be careful not to damage PBA.

7

Assemble OCTA connector and connector cover and Attach OCTA.

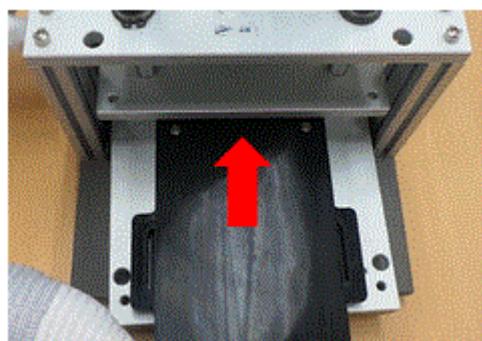


* Caution

- 1) Be care of scratch and molding damage

8

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

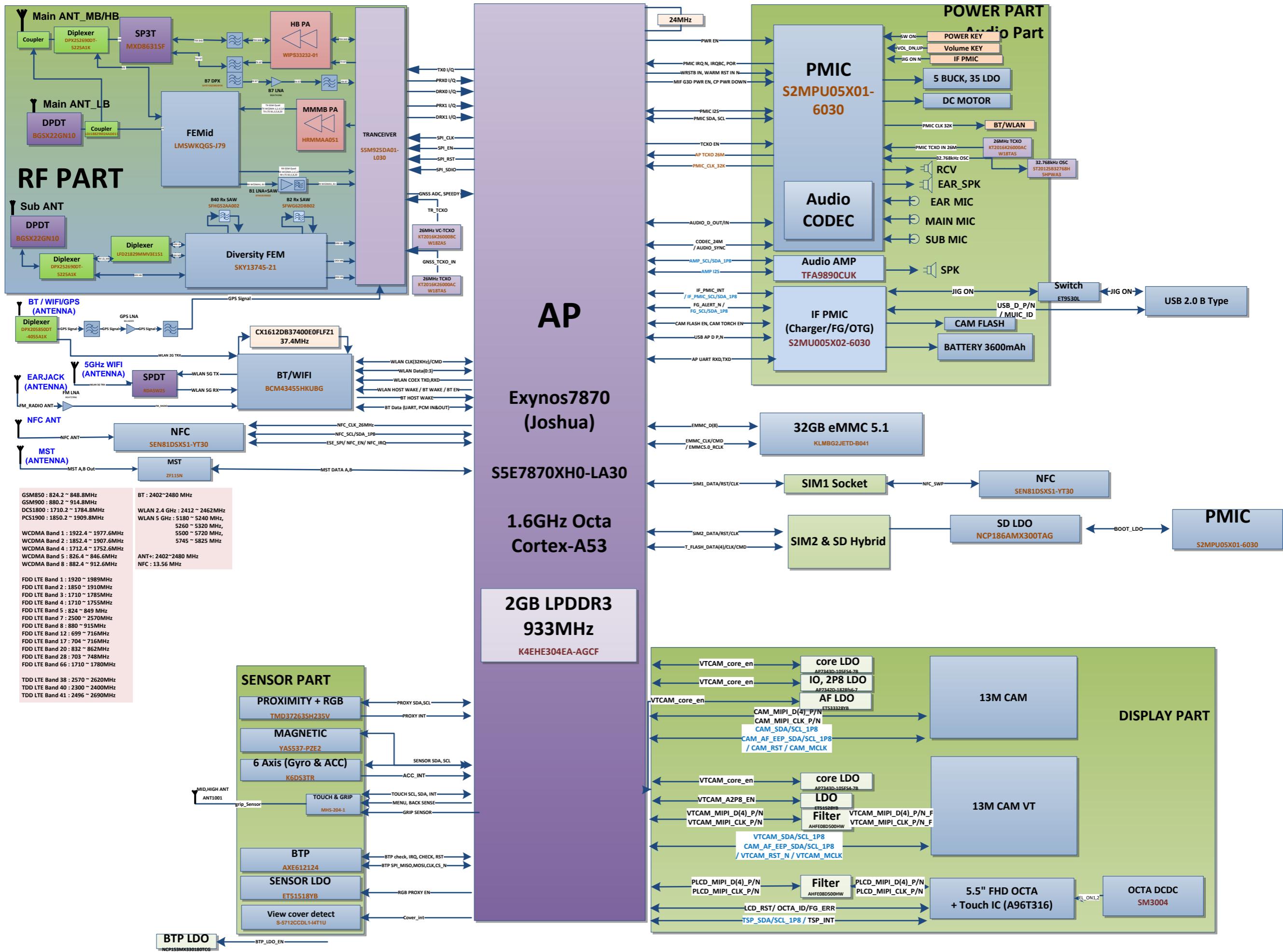


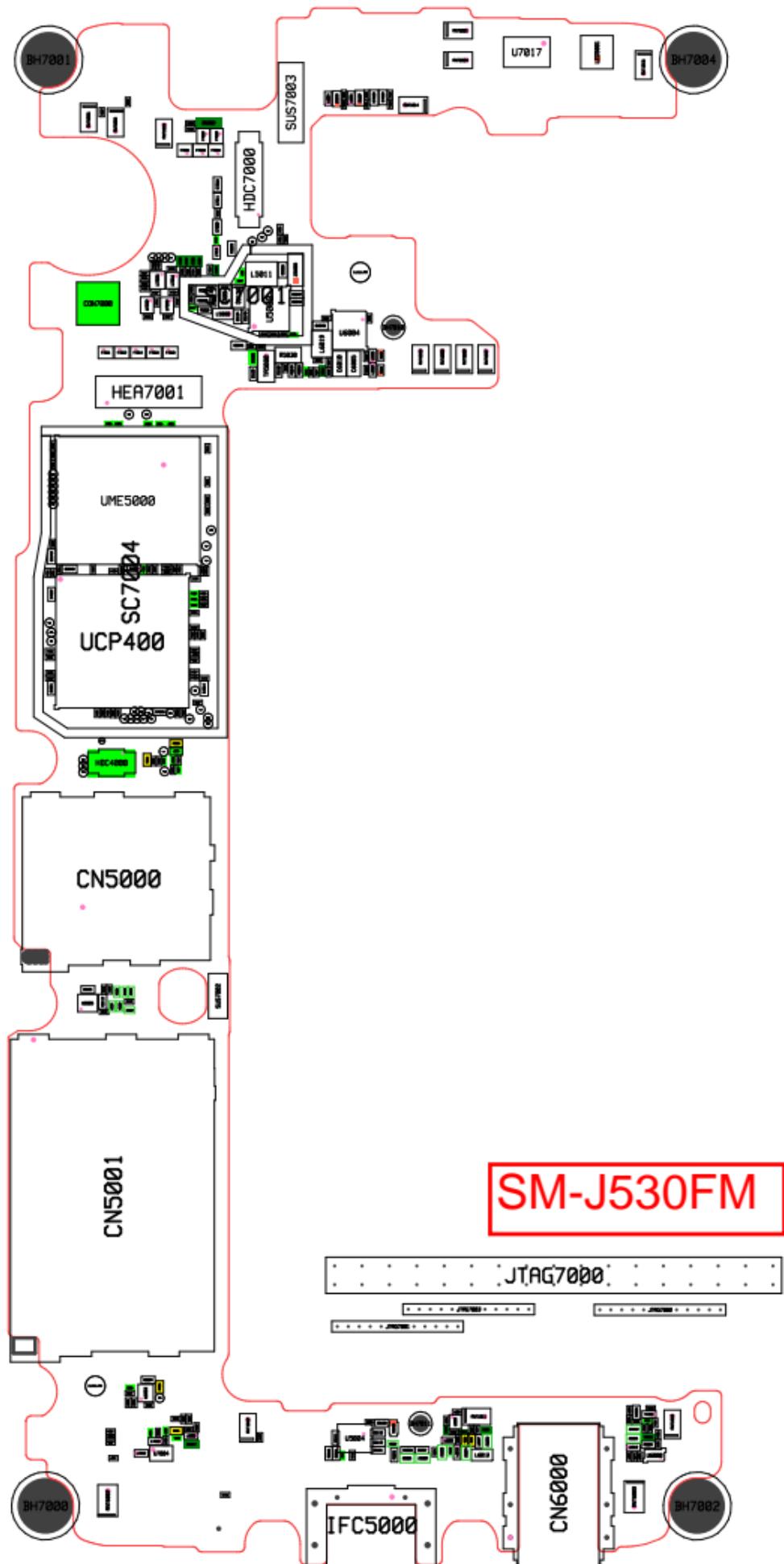
* Caution

- 1) Be careful not to damage the OCTA.

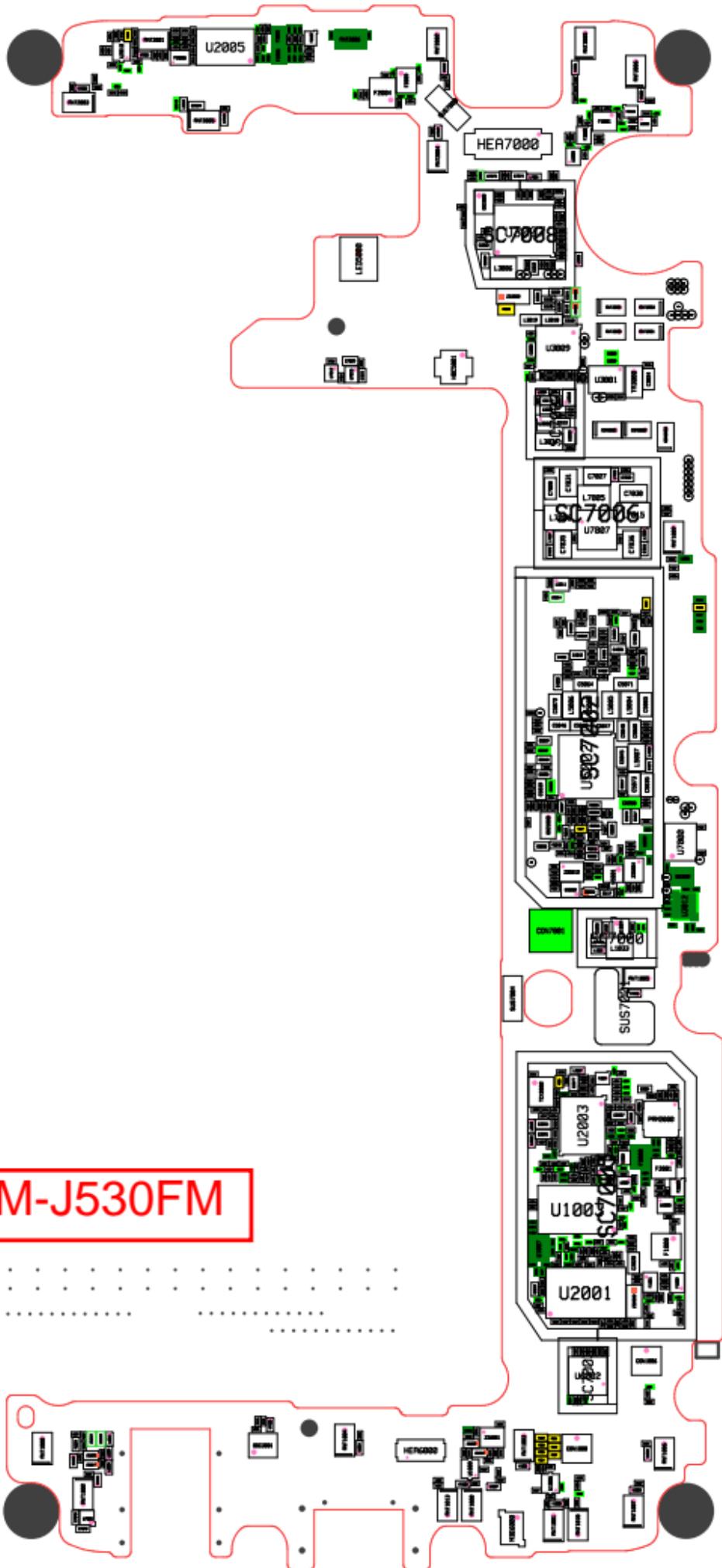
* Caution

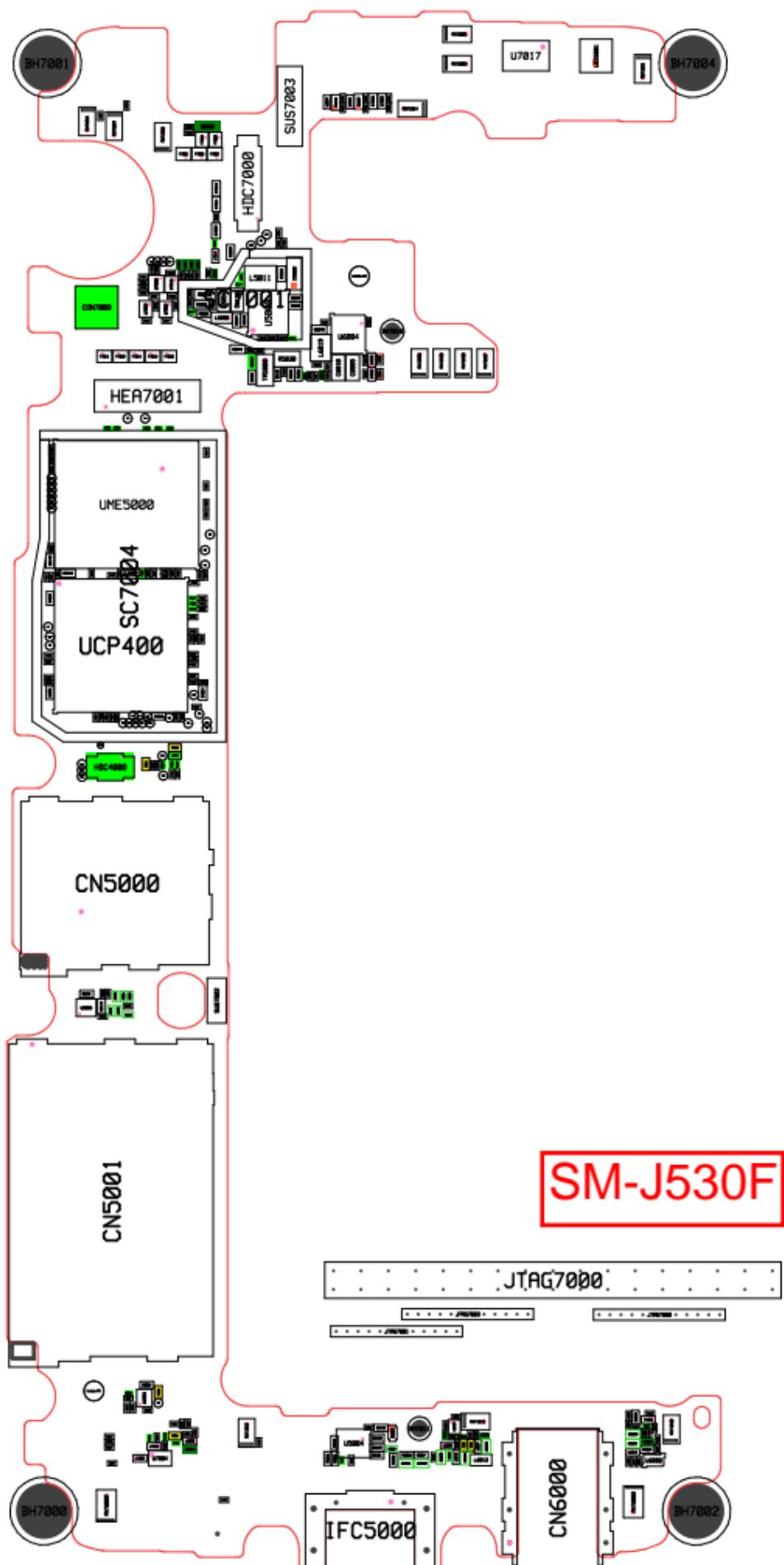
- 1) Please confirm the pressing condition released lastly, and follow it.



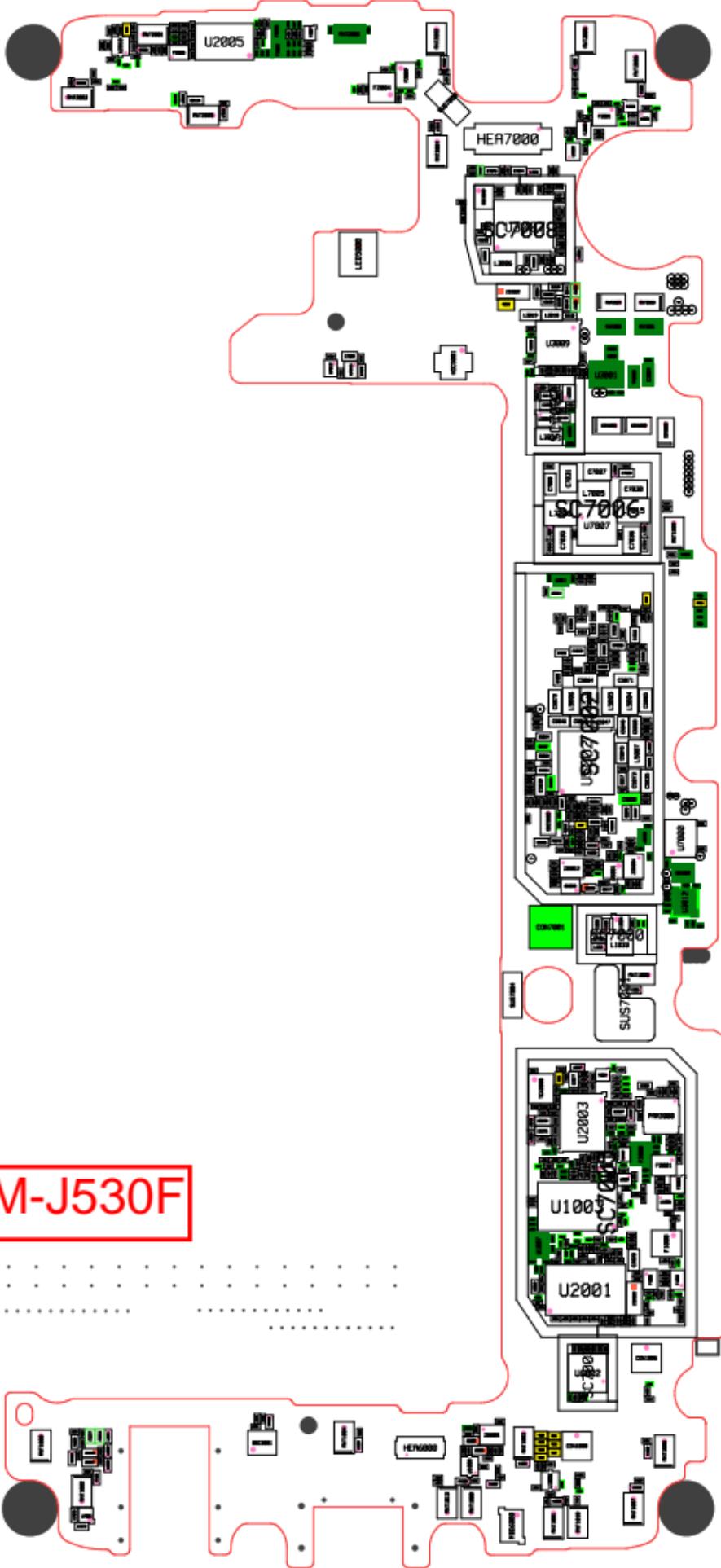


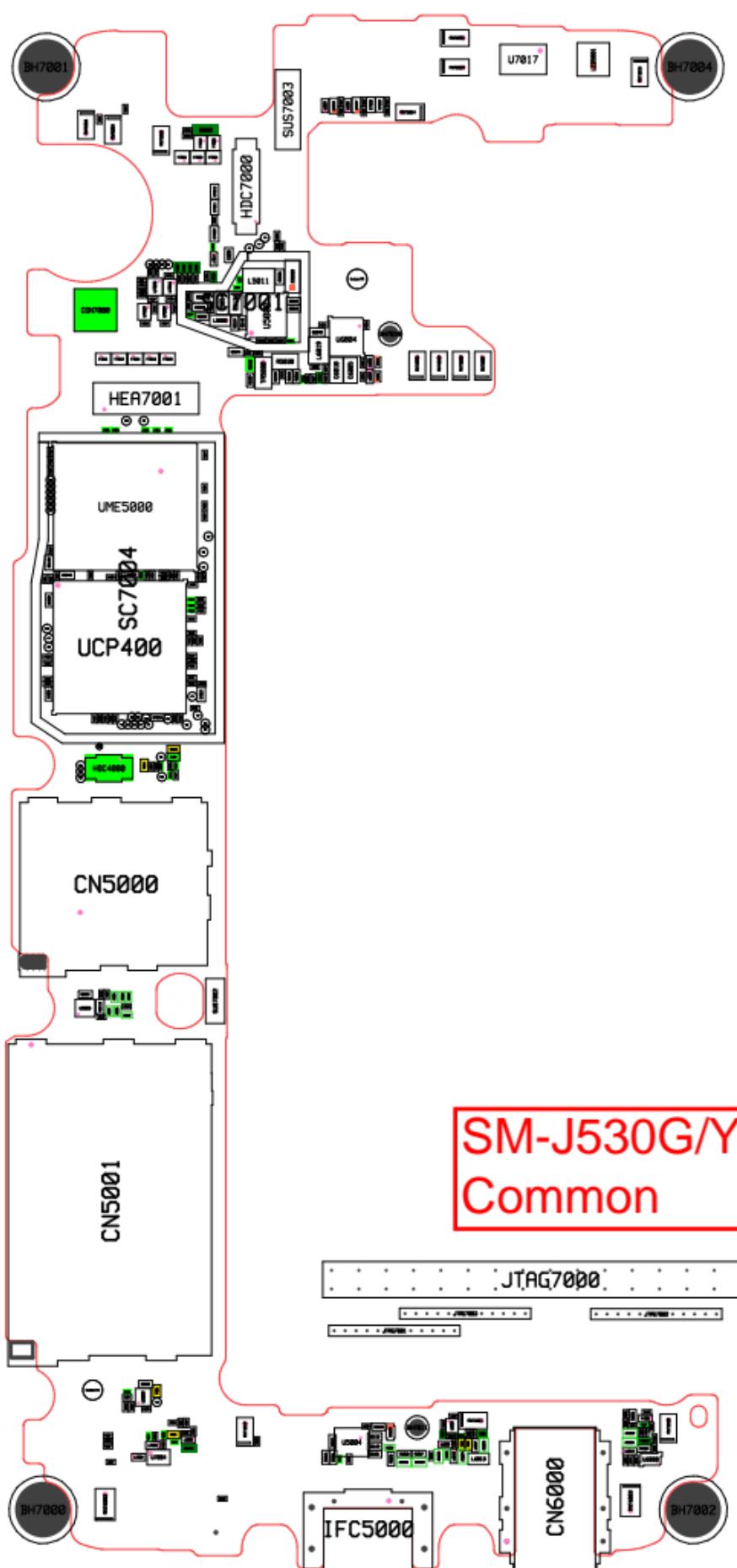
SM-J530FM



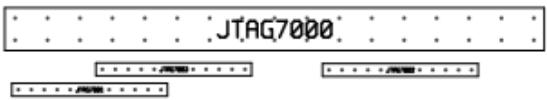


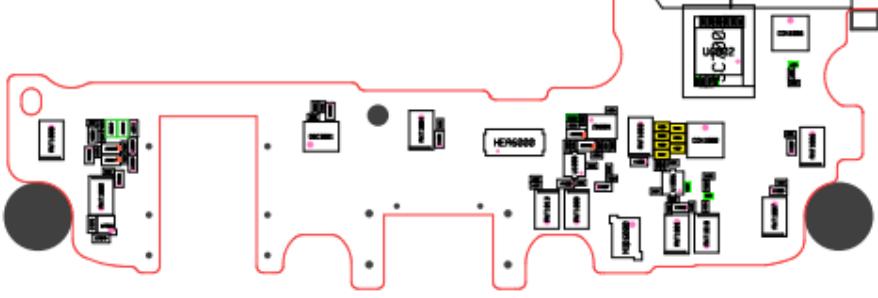
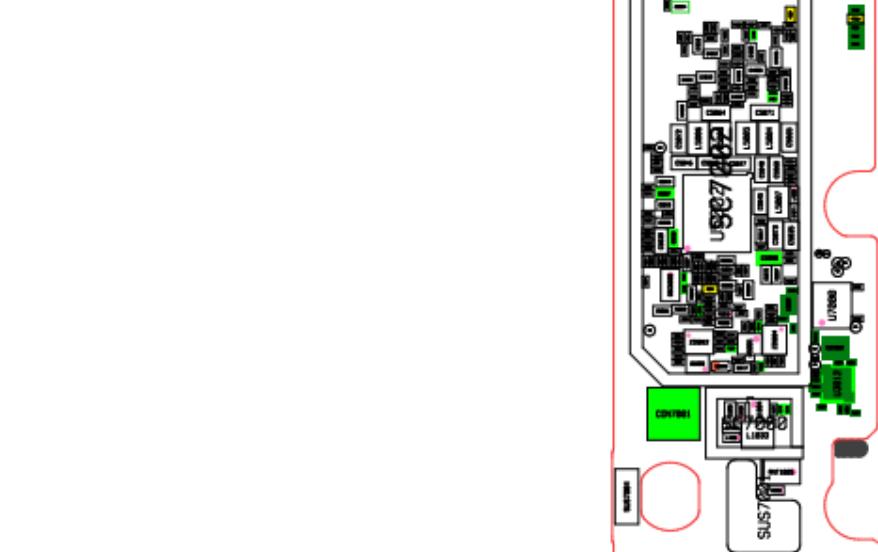
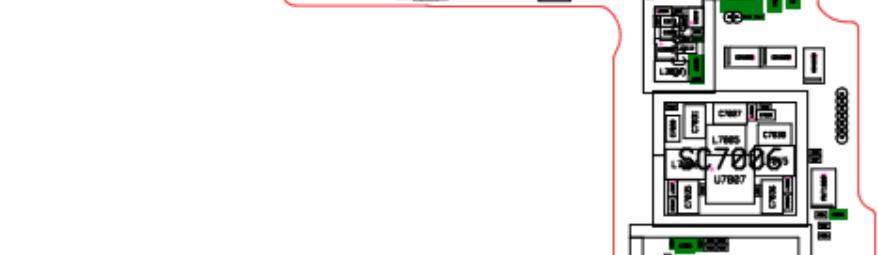
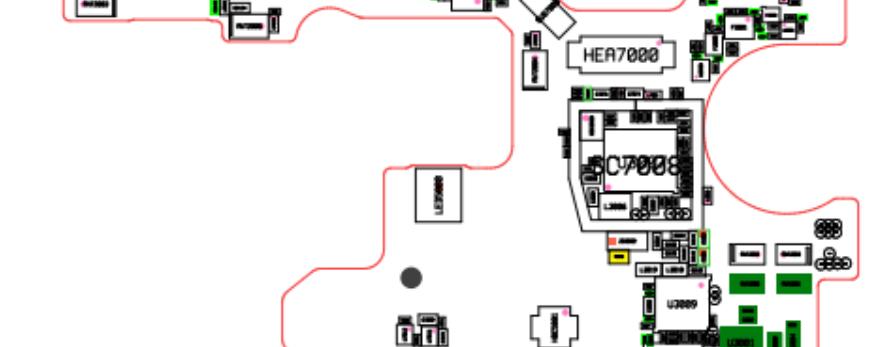
SM-J530F



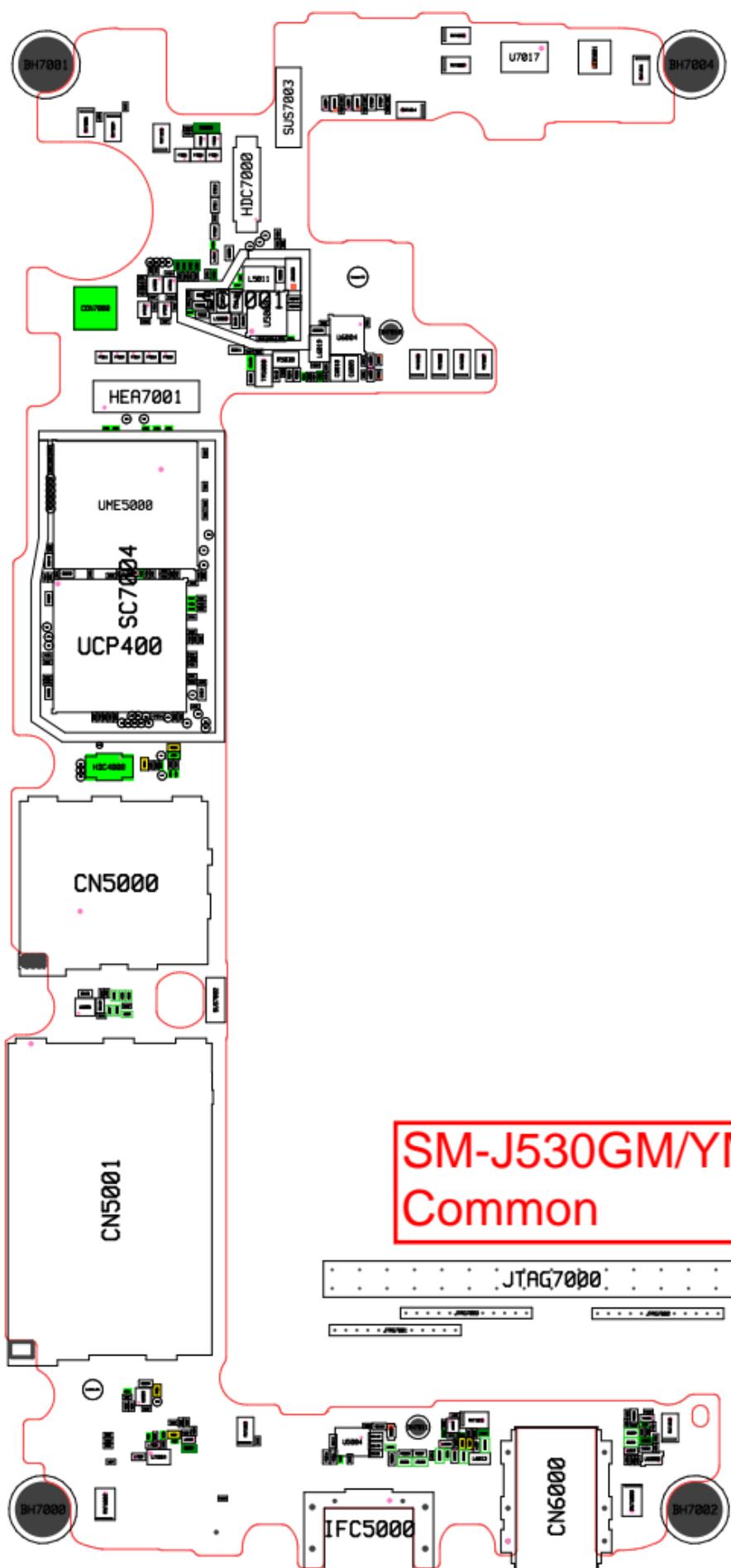


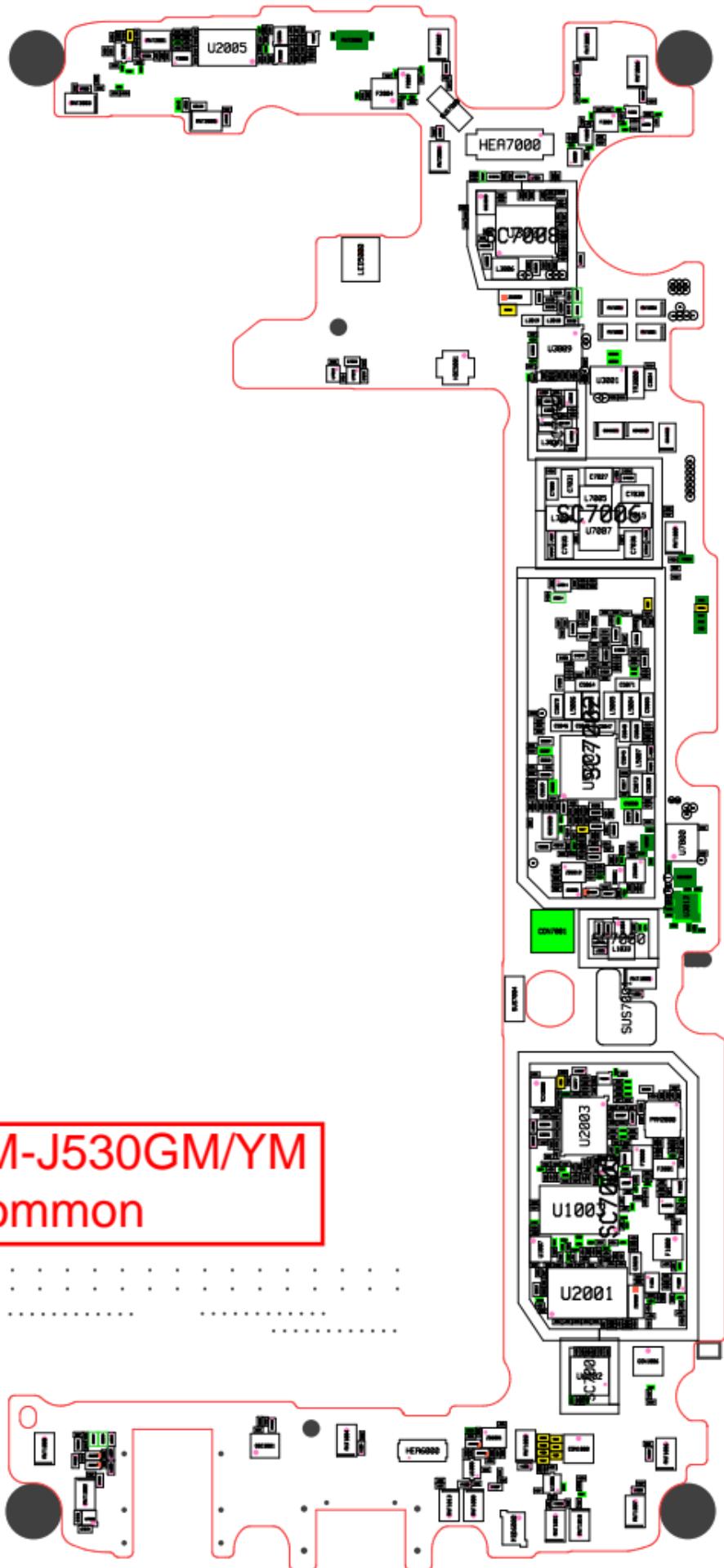
**SM-J530G/Y
Common**





SM-J530G/Y
Common

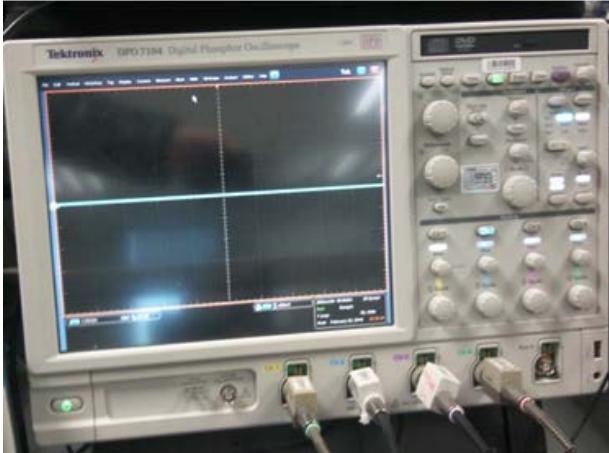
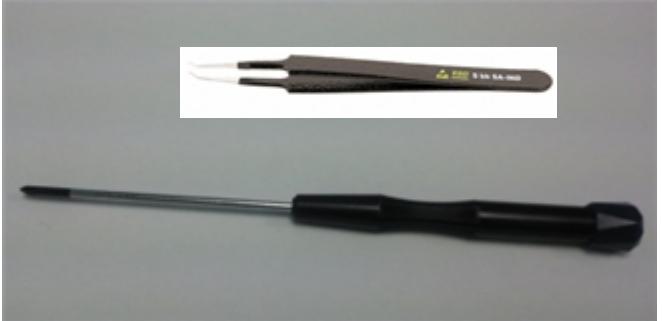
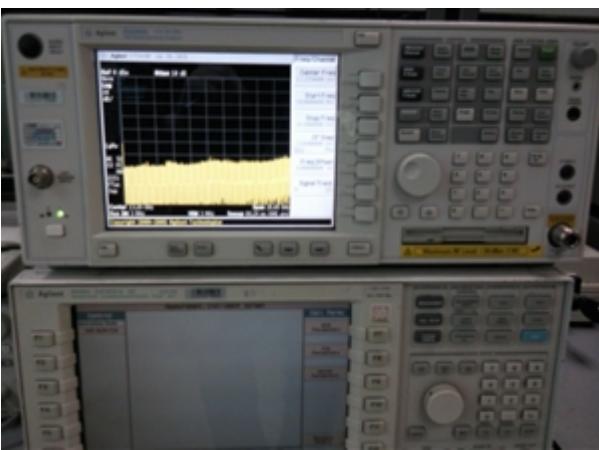




SM-J530GM/YM
Common

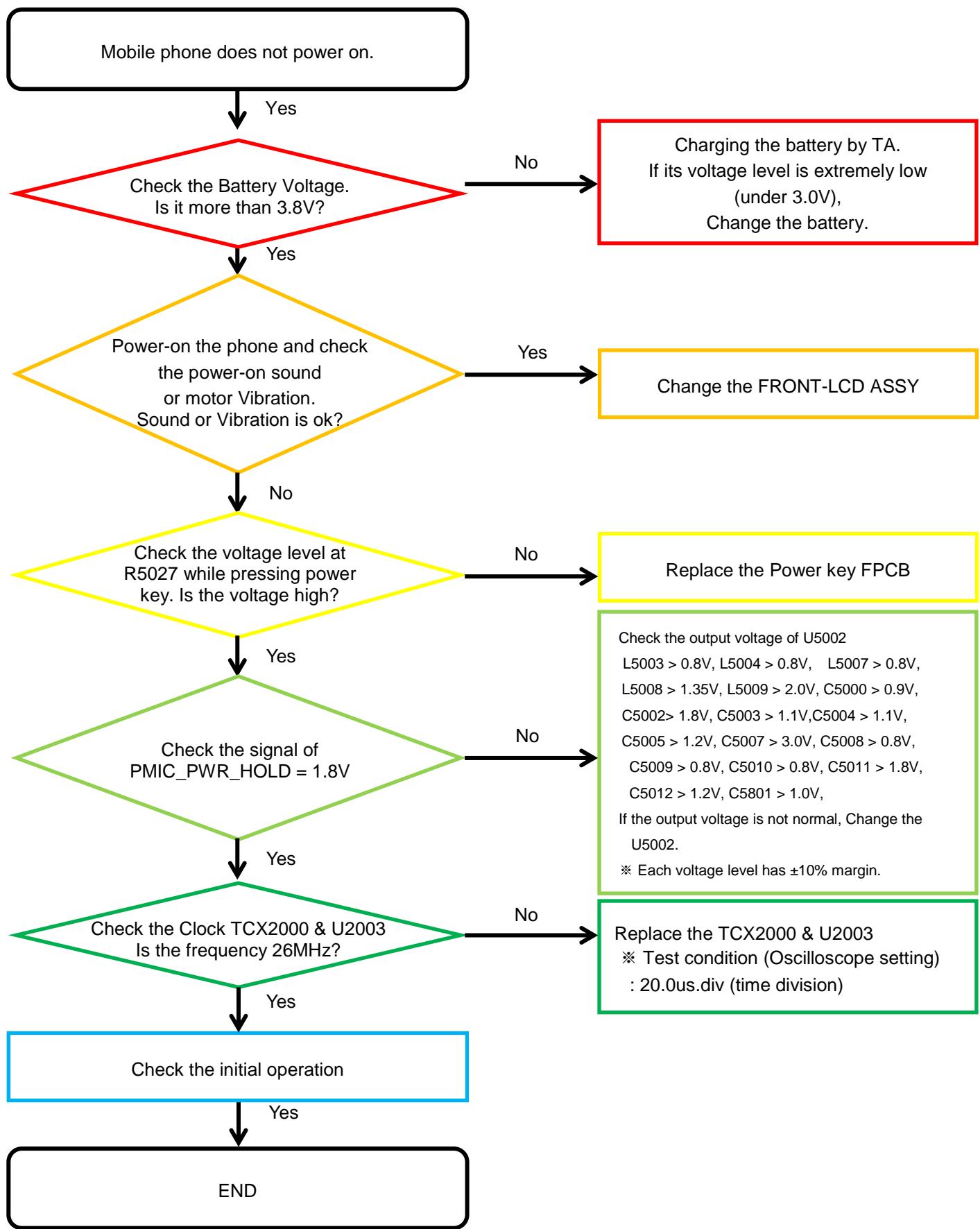
8. Level 3 Repair

8-3. Flow chart of Troubleshooting.

	
Oscilloscope	Digital Multimeter
	
Power Supply	+ driver, ESD Safe Tweezer
	
8960 & Spectrum Analyzer	Soldering iron

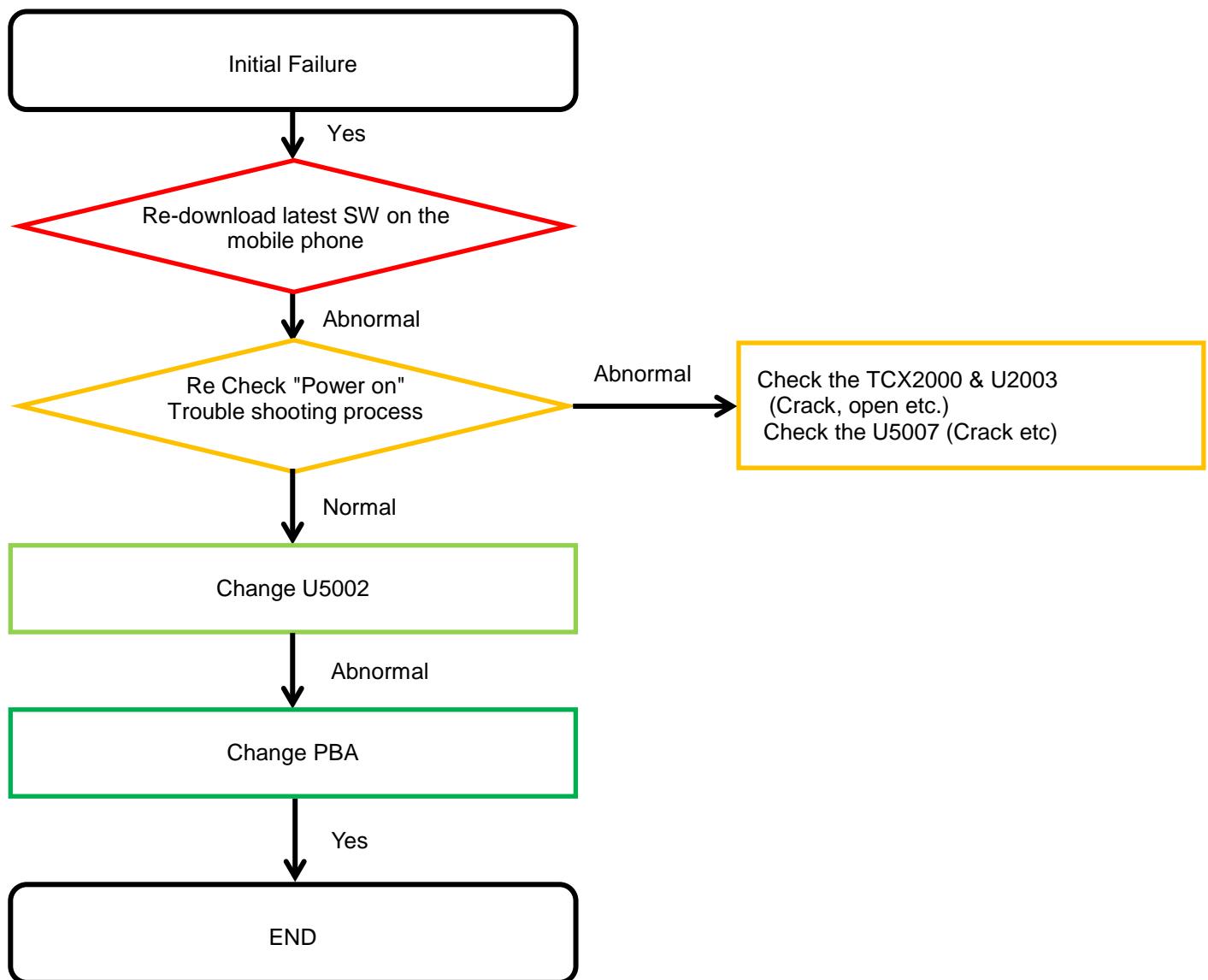
8. Level 3 Repair

8-4-1. Power On



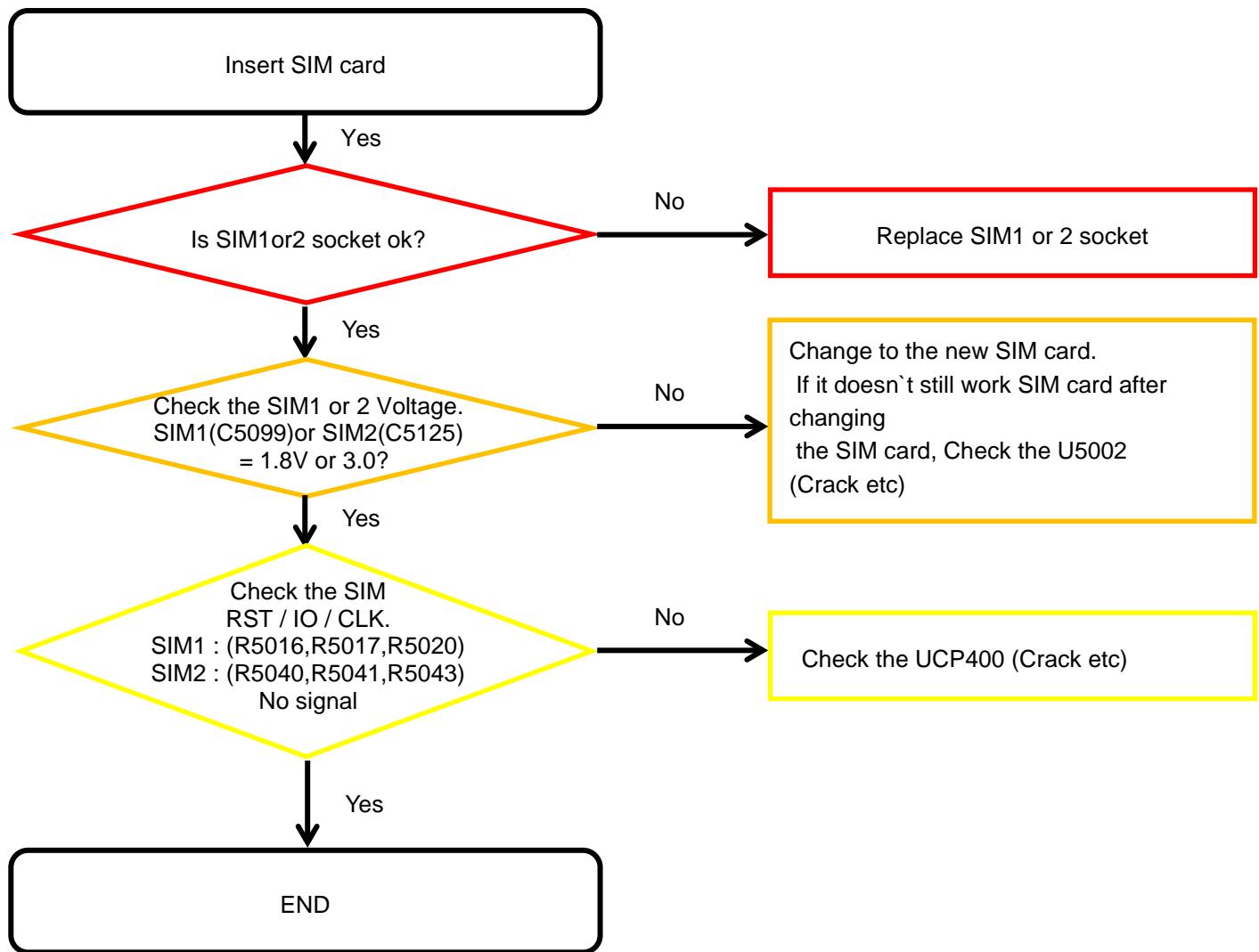
8. Level 3 Repair

8-4-2. Initial



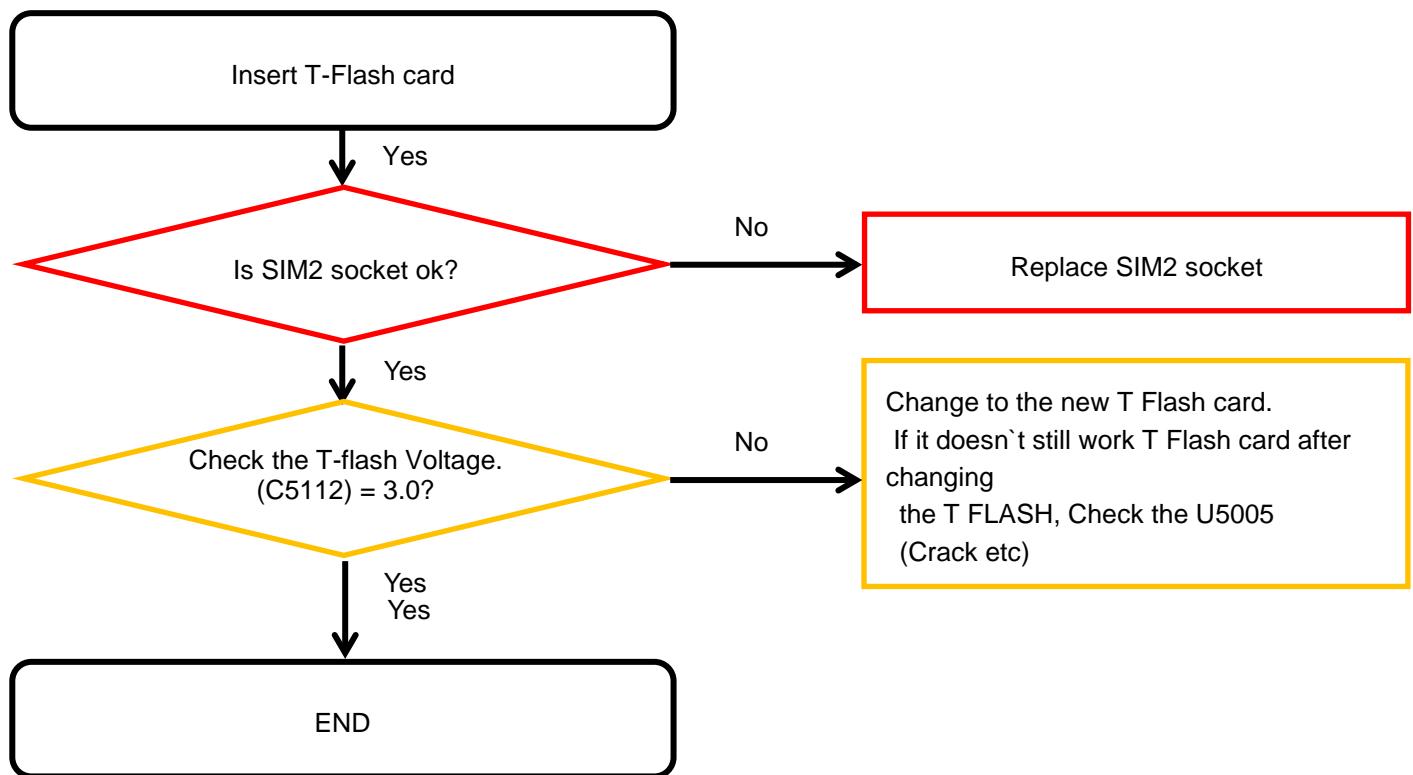
8. Level 3 Repair

8-4-3. SIM Part



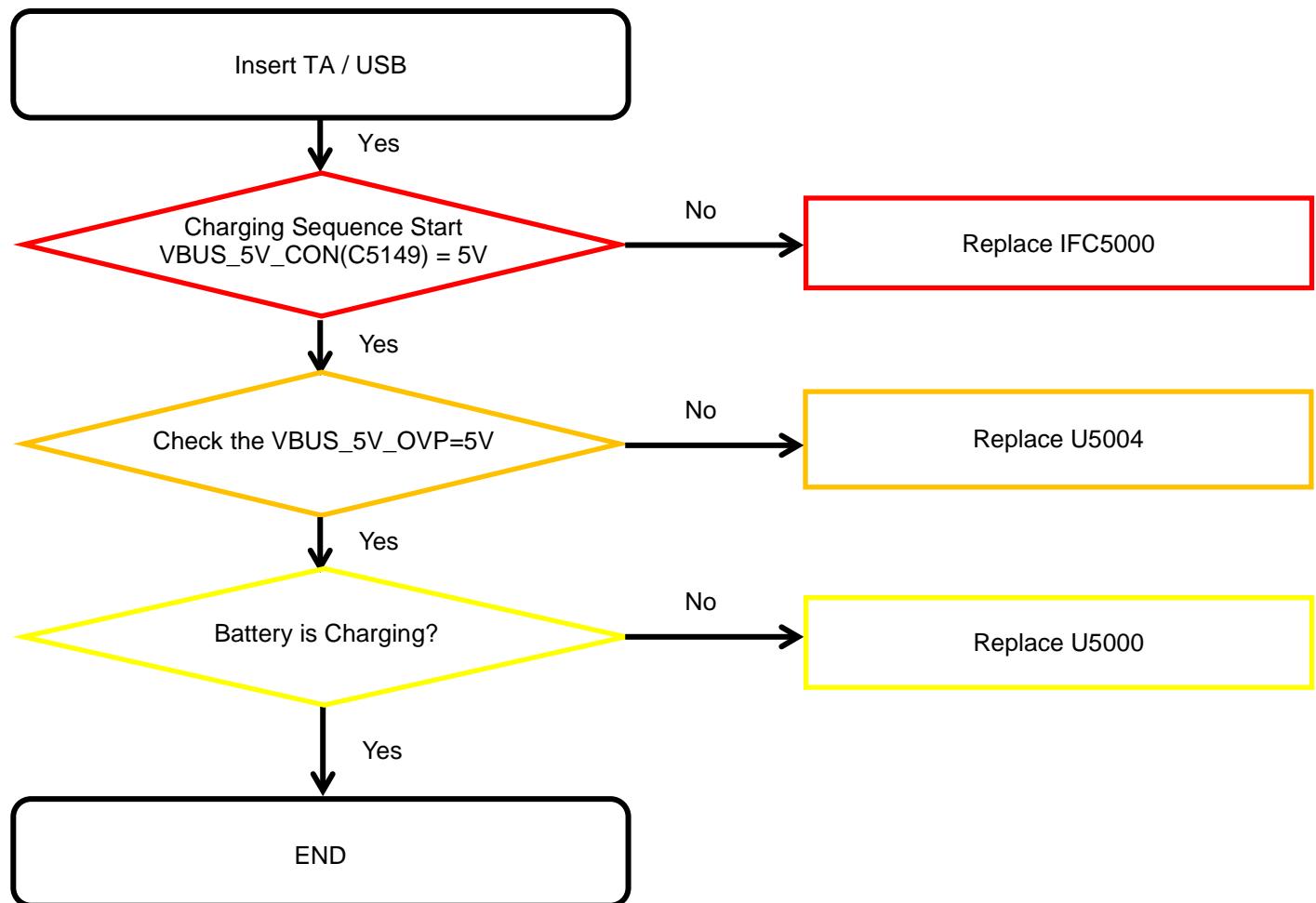
8. Level 3 Repair

8-4-4. T-Flash Part



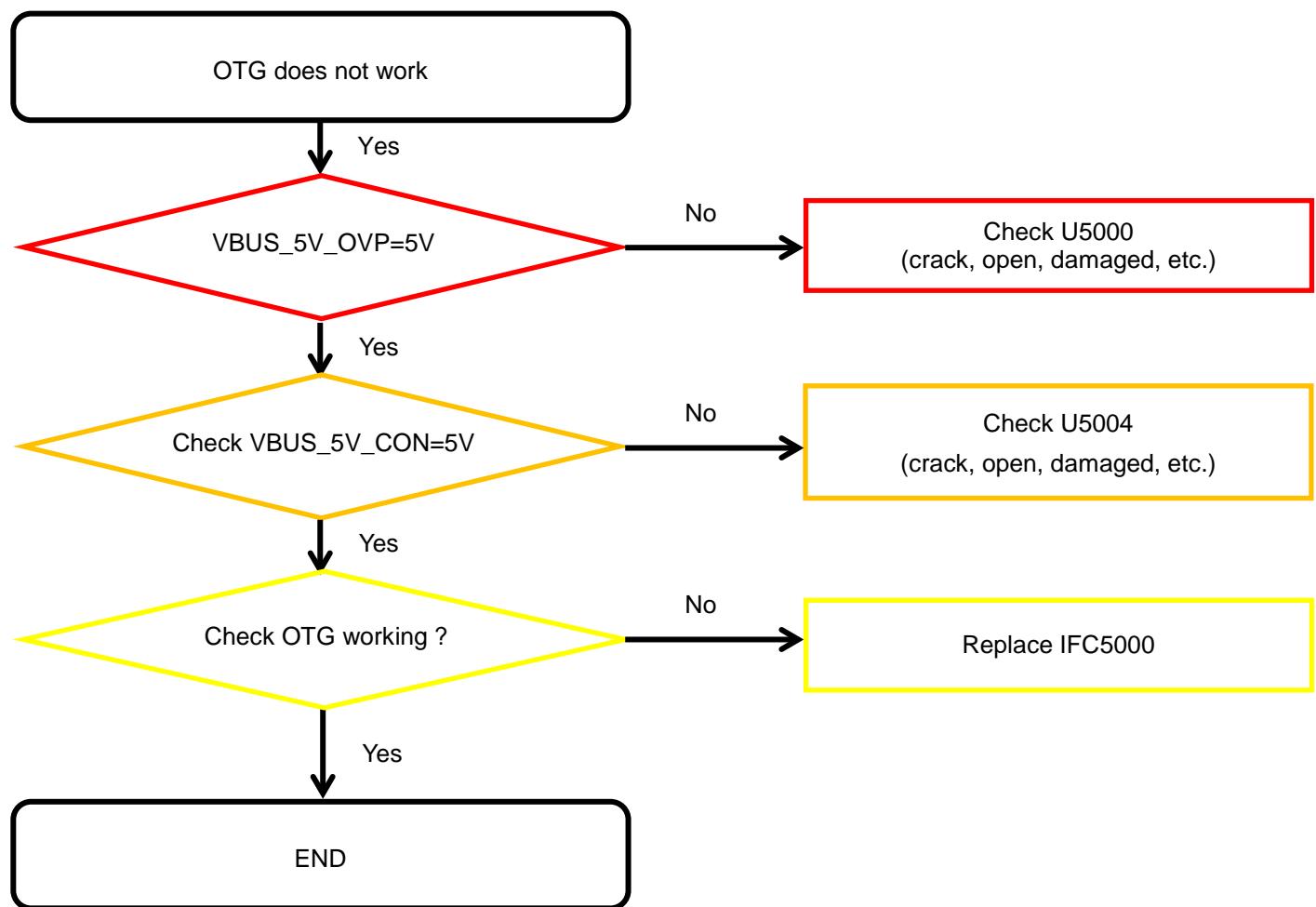
8. Level 3 Repair

8-4-5. Charging Part



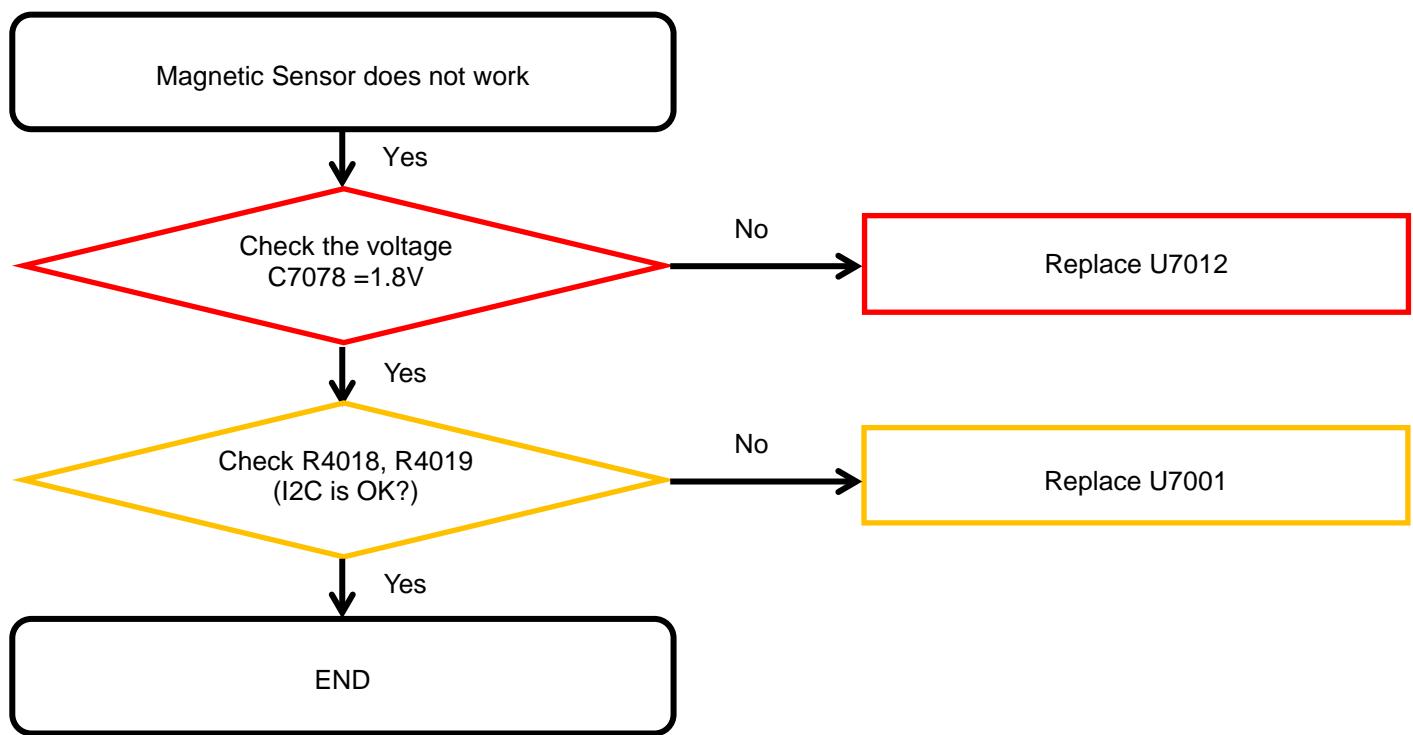
8. Level 3 Repair

8-4-6. OTG



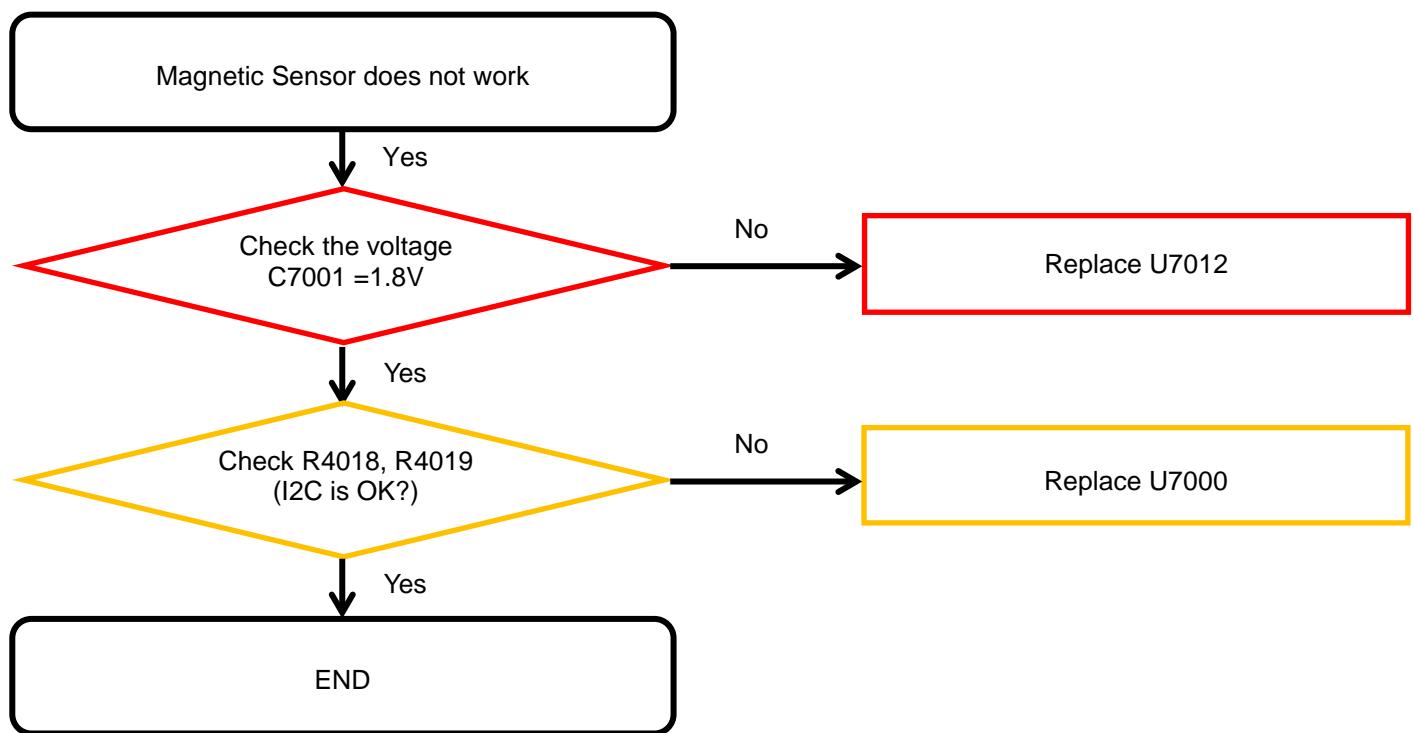
8. Level 3 Repair

8-4-7-1. Magnetic Sensor



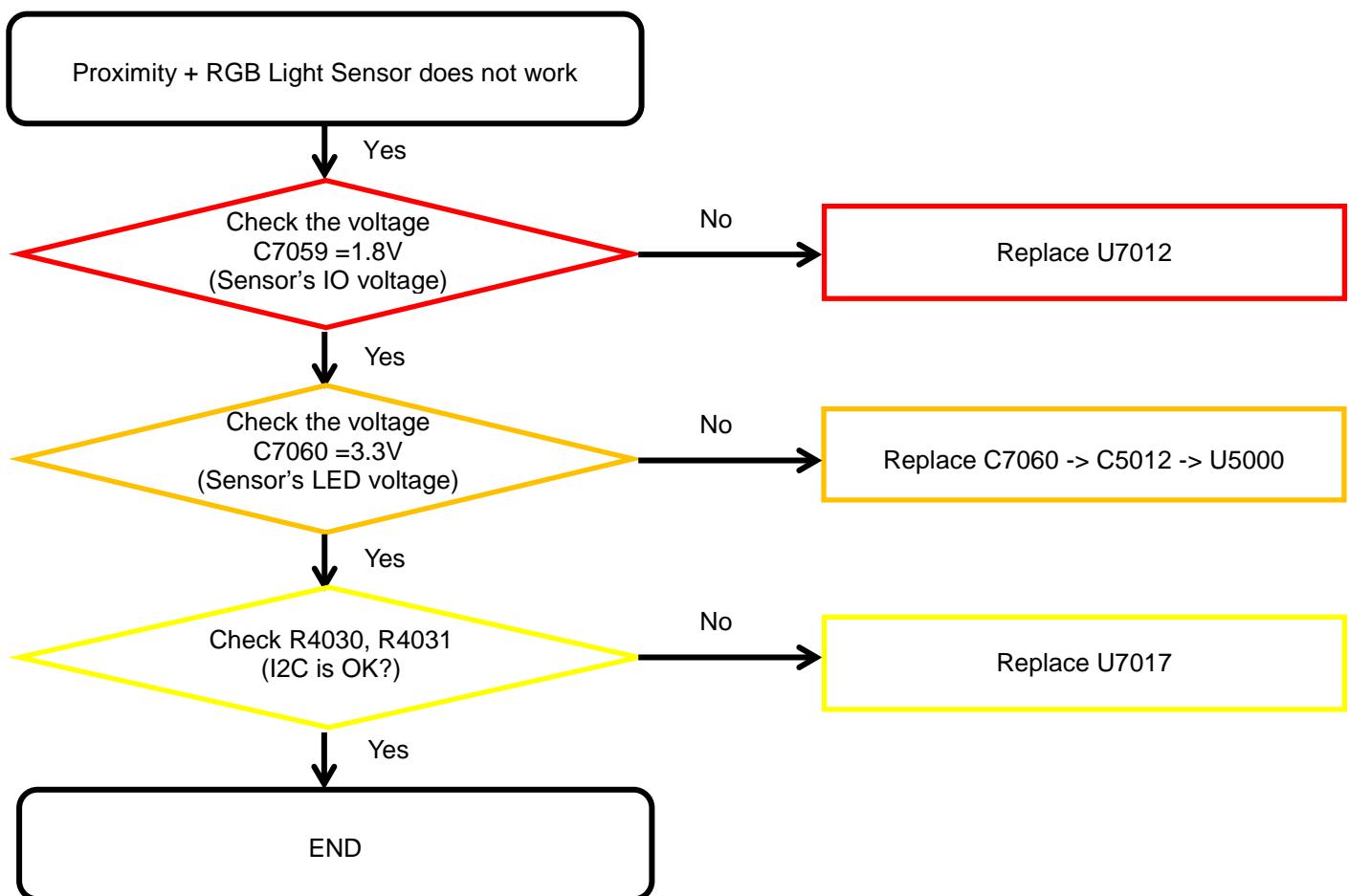
8. Level 3 Repair

8-4-7-2. Accel & GYRO Sensor



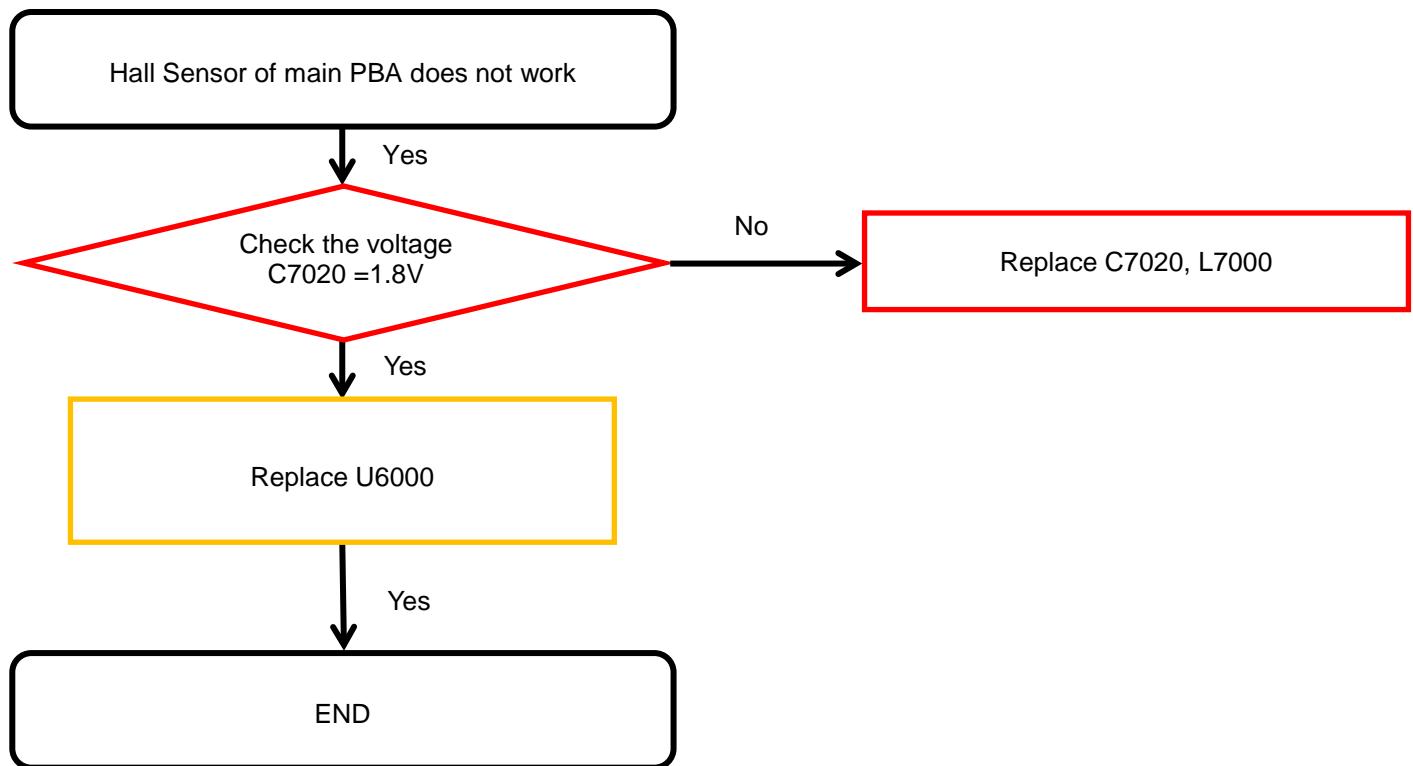
8. Level 3 Repair

8-4-7-3. Proximity + RGB Light sensor



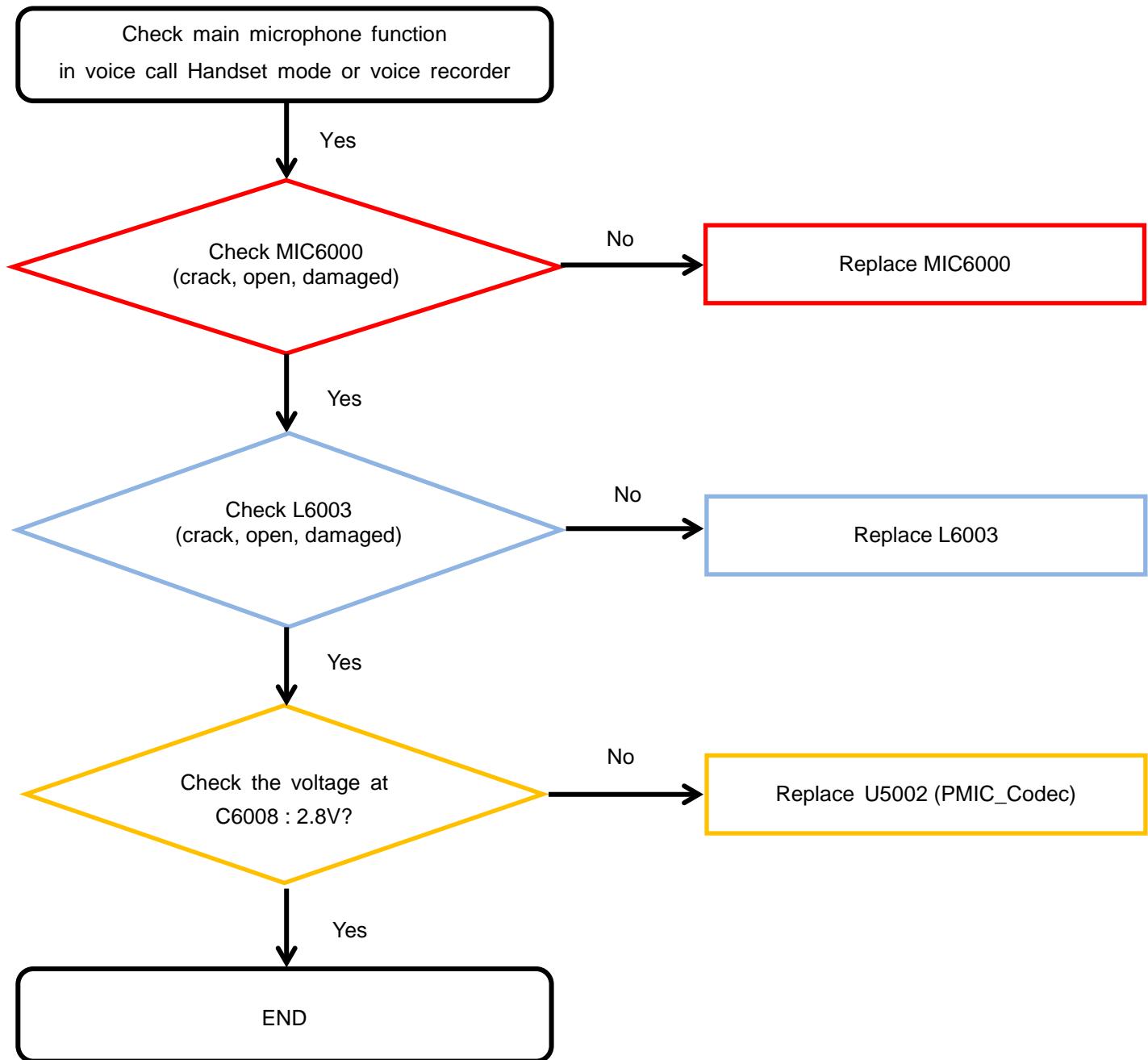
8. Level 3 Repair

8-4-7-4. Hall Sensor



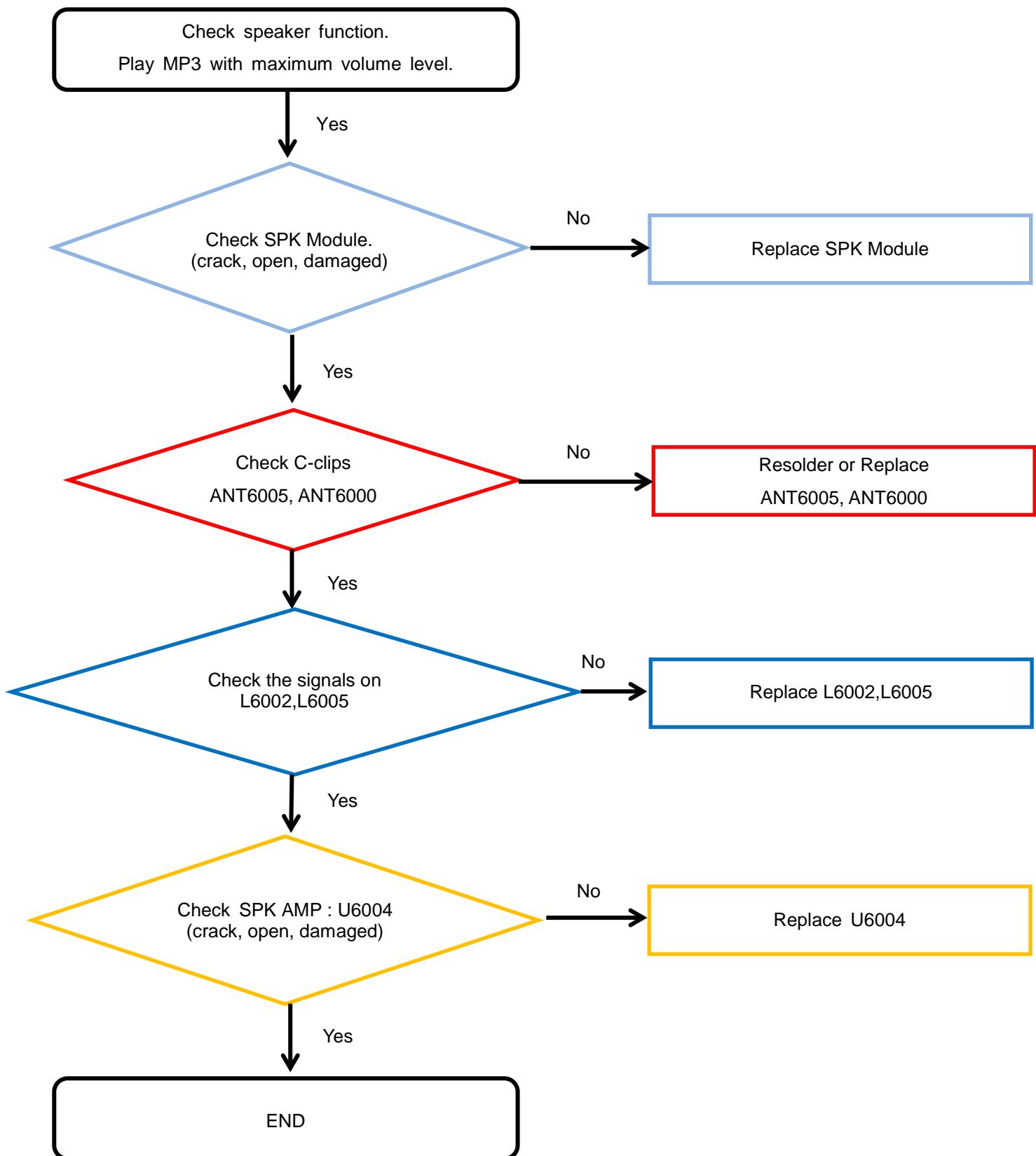
8. Level 3 Repair

8-4-8-1. Microphone Part - Main MIC



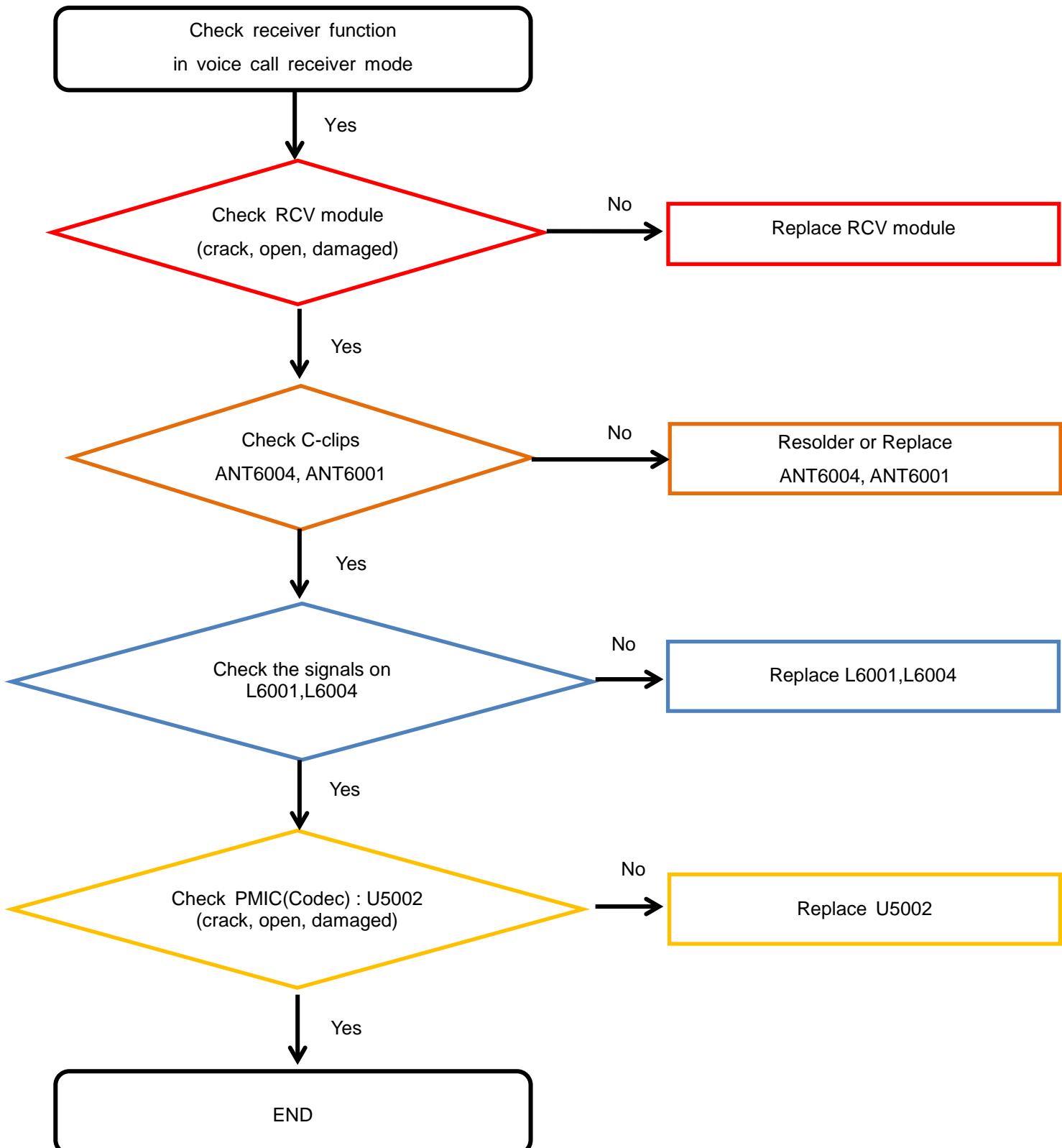
8. Level 3 Repair

8-4-9. Speaker Part



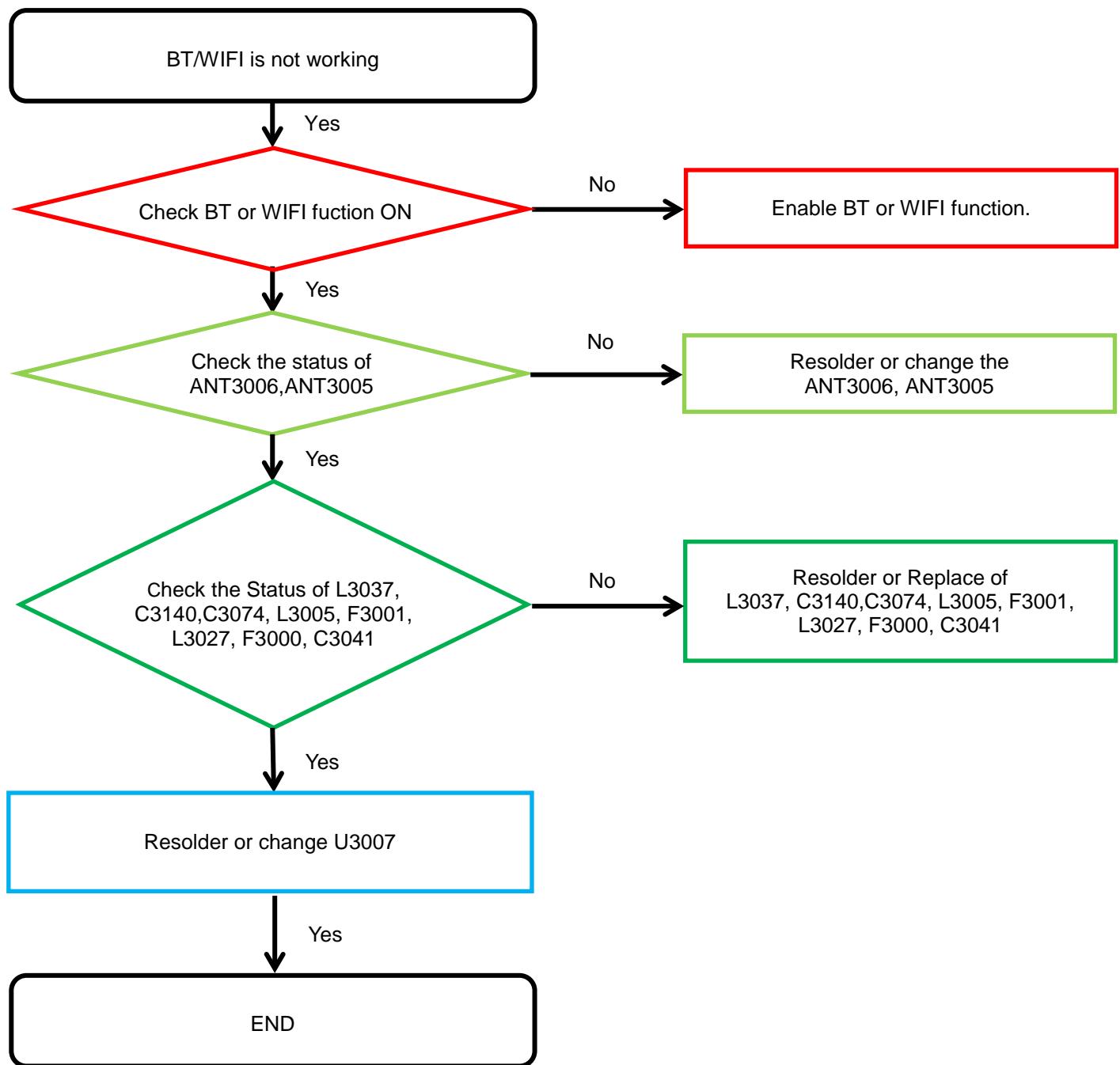
8. Level 3 Repair

8-4-10. Receiver Part



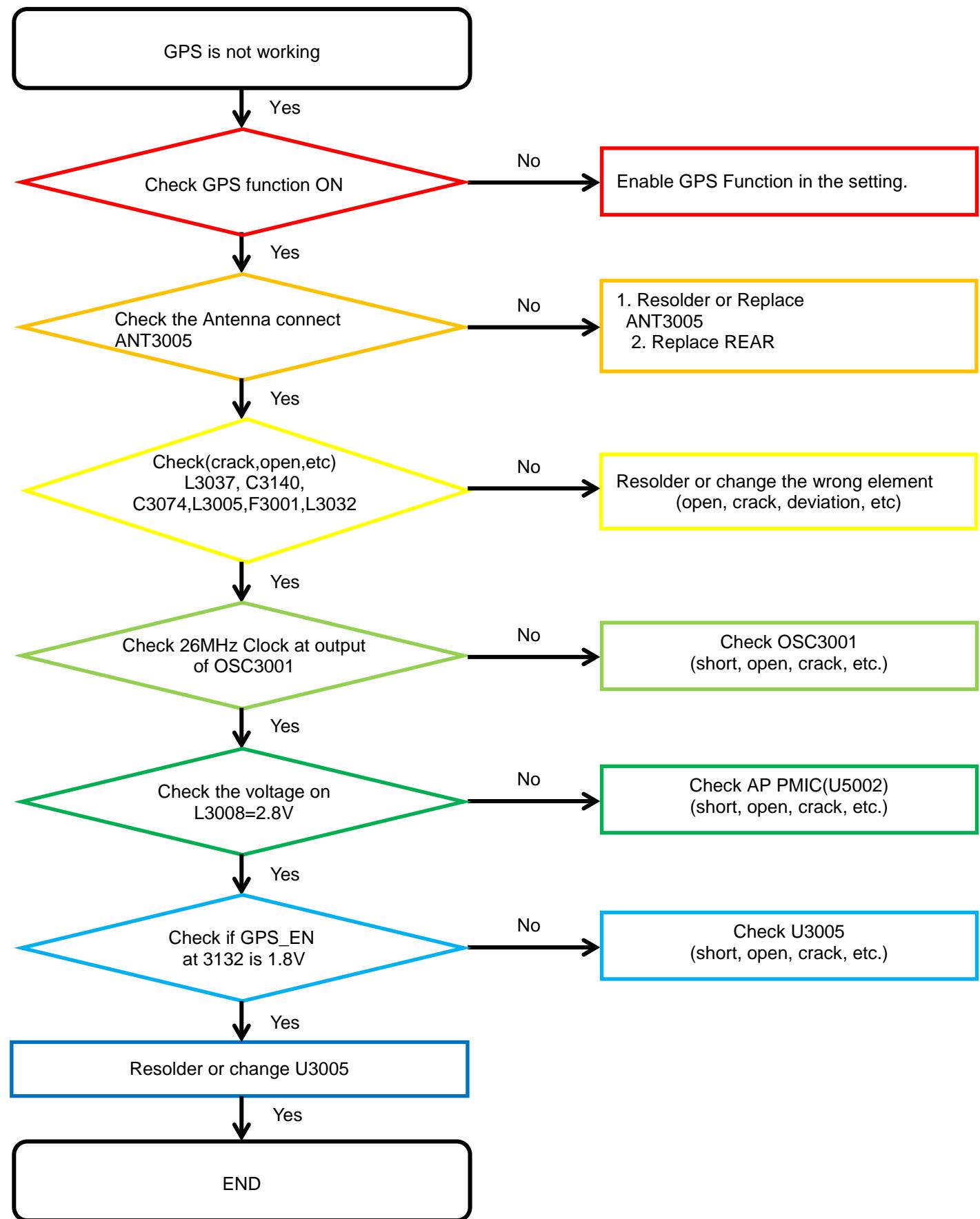
8. Level 3 Repair

8-4-11. BT/WIFI



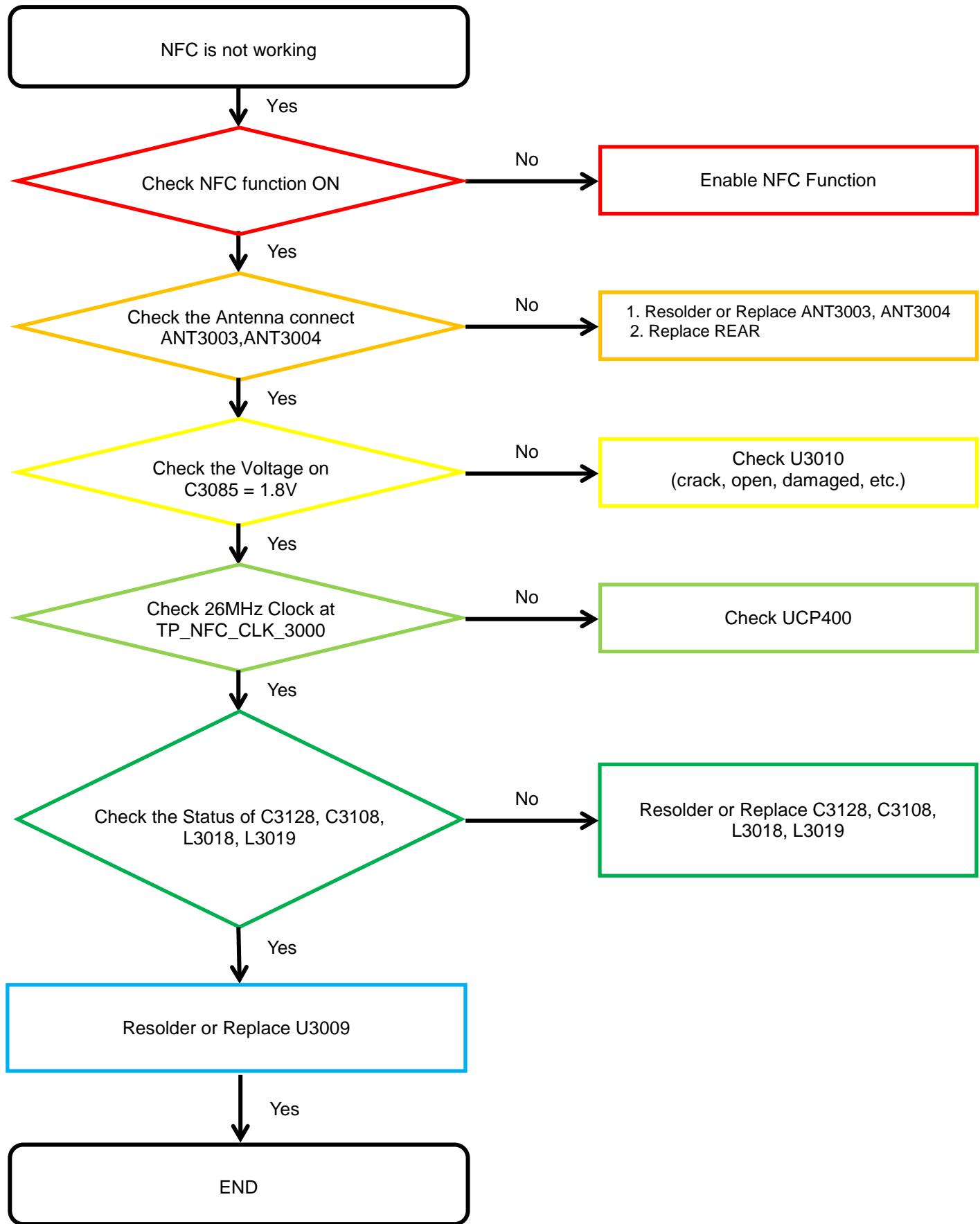
8. Level 3 Repair

8-4-12. GPS



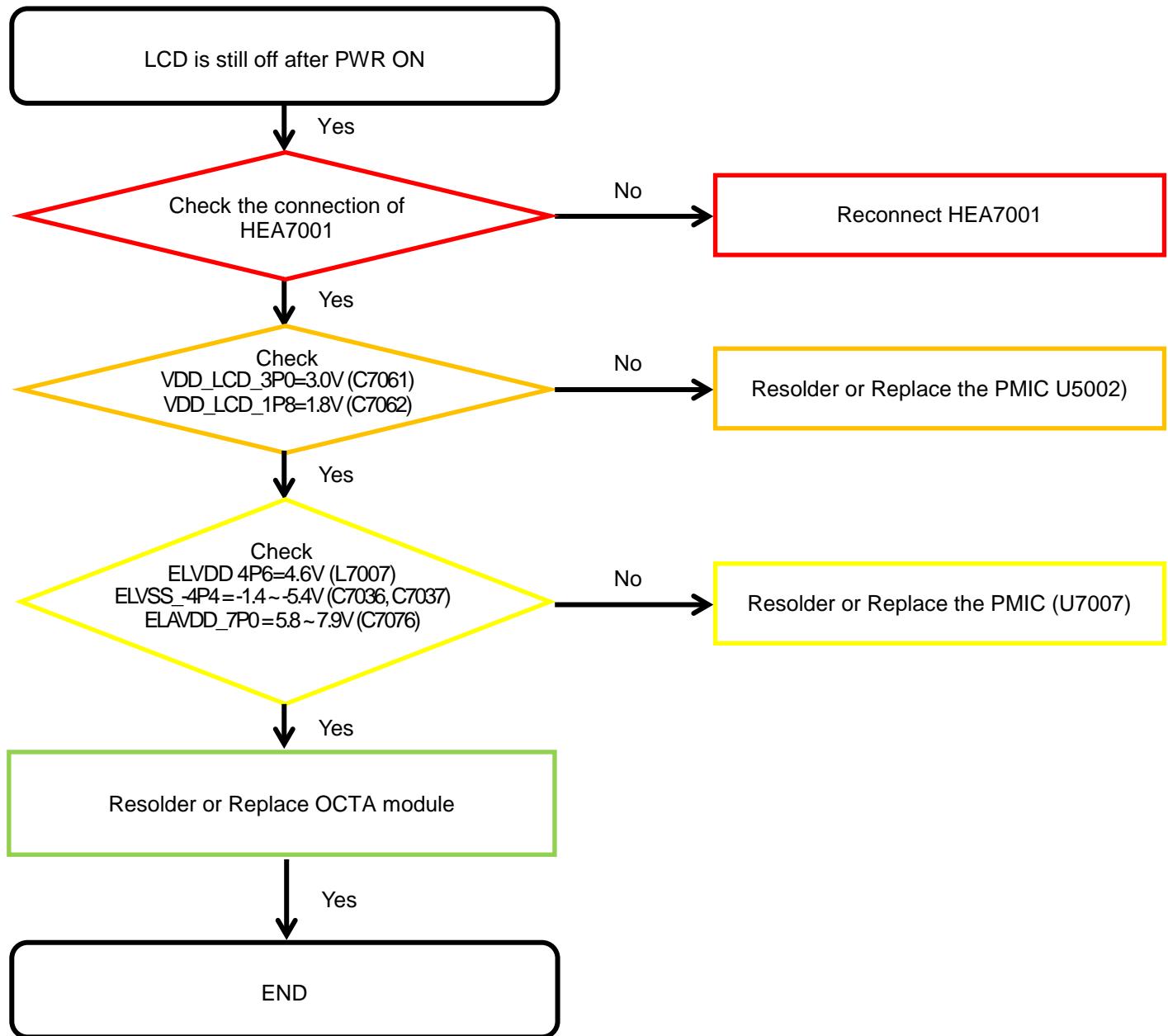
8. Level 3 Repair

8-4-13. NFC



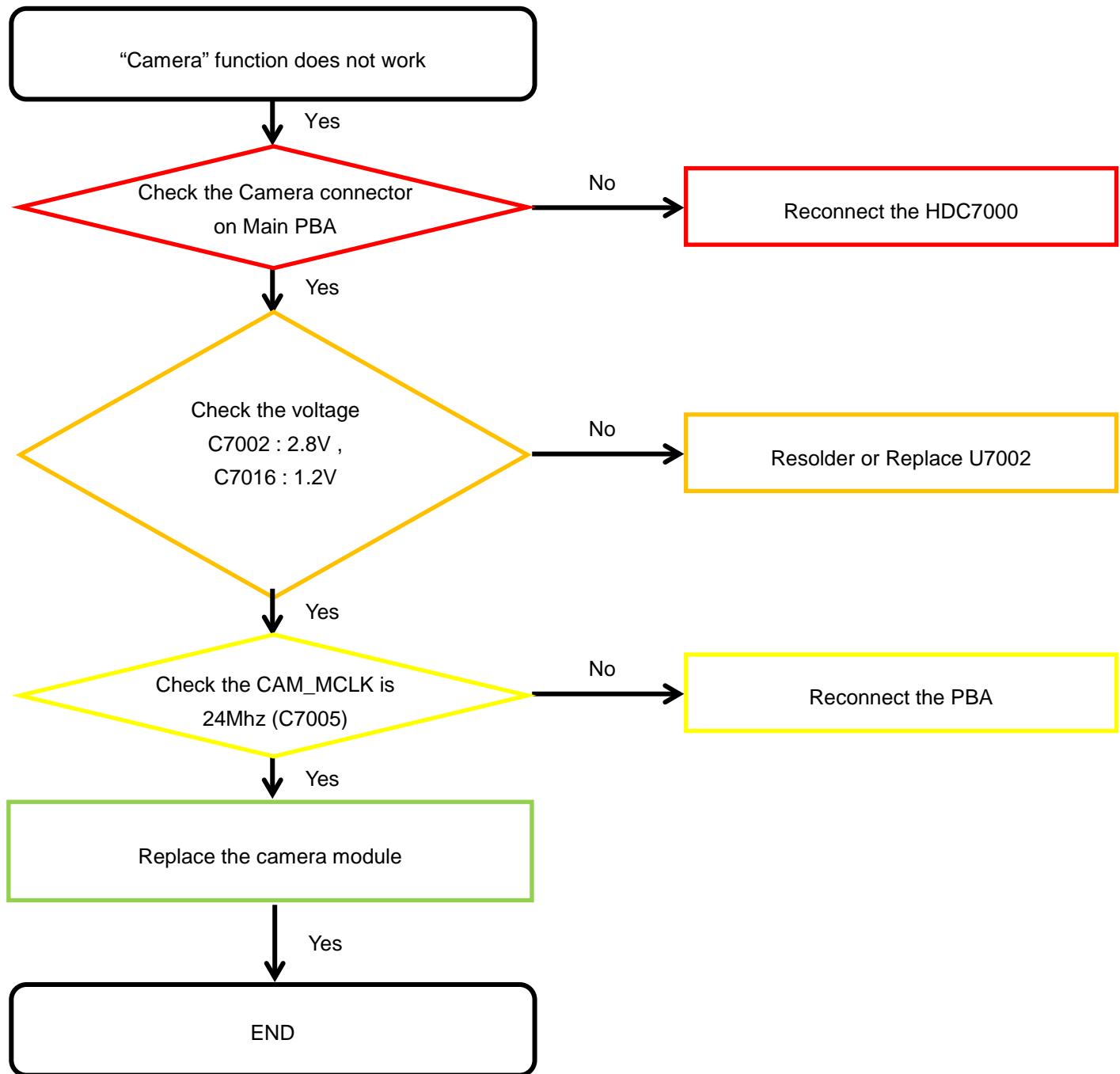
8. Level 3 Repair

8-4-14. Display



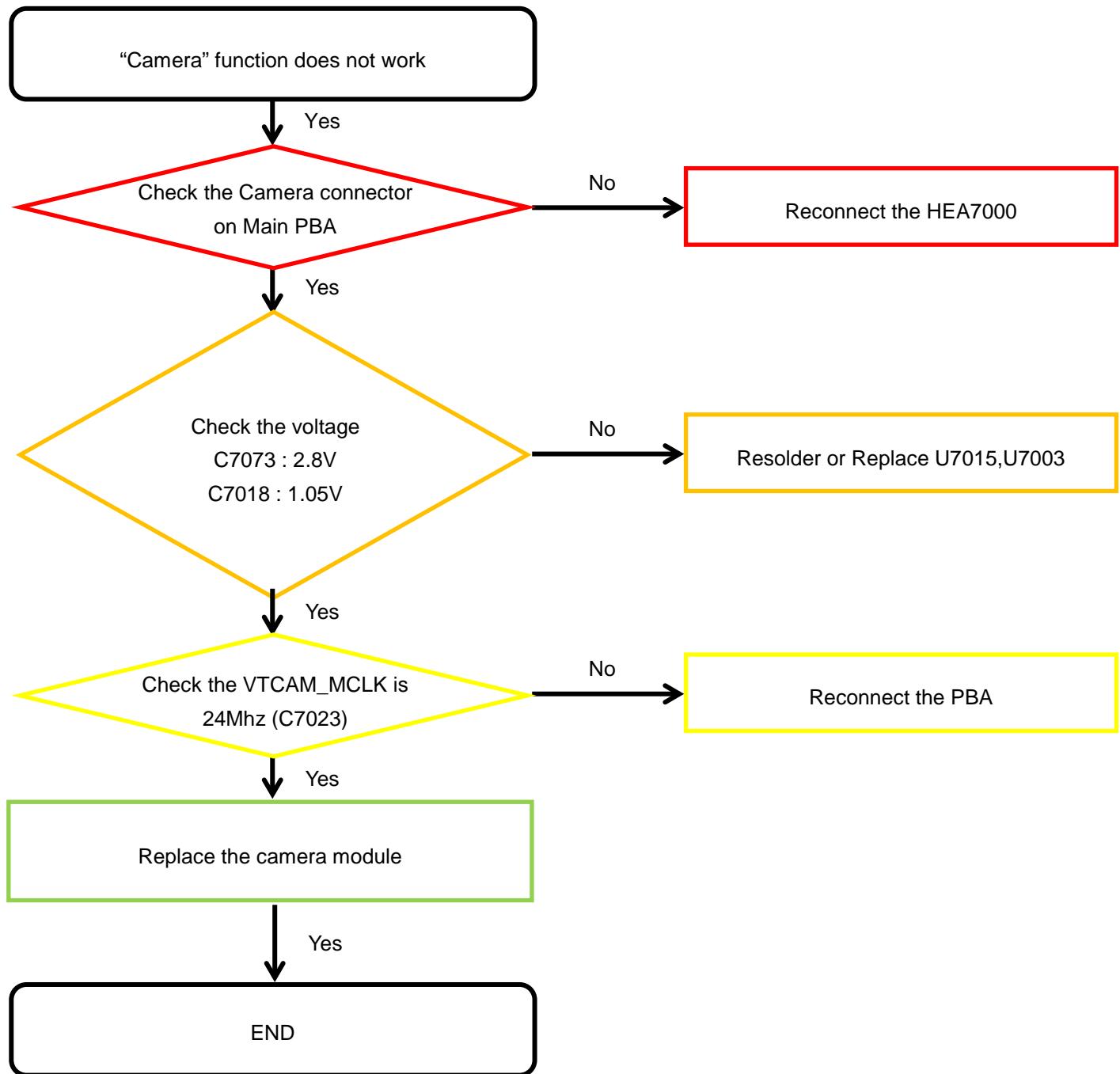
8. Level 3 Repair

8-4-15. Rear CAMERA



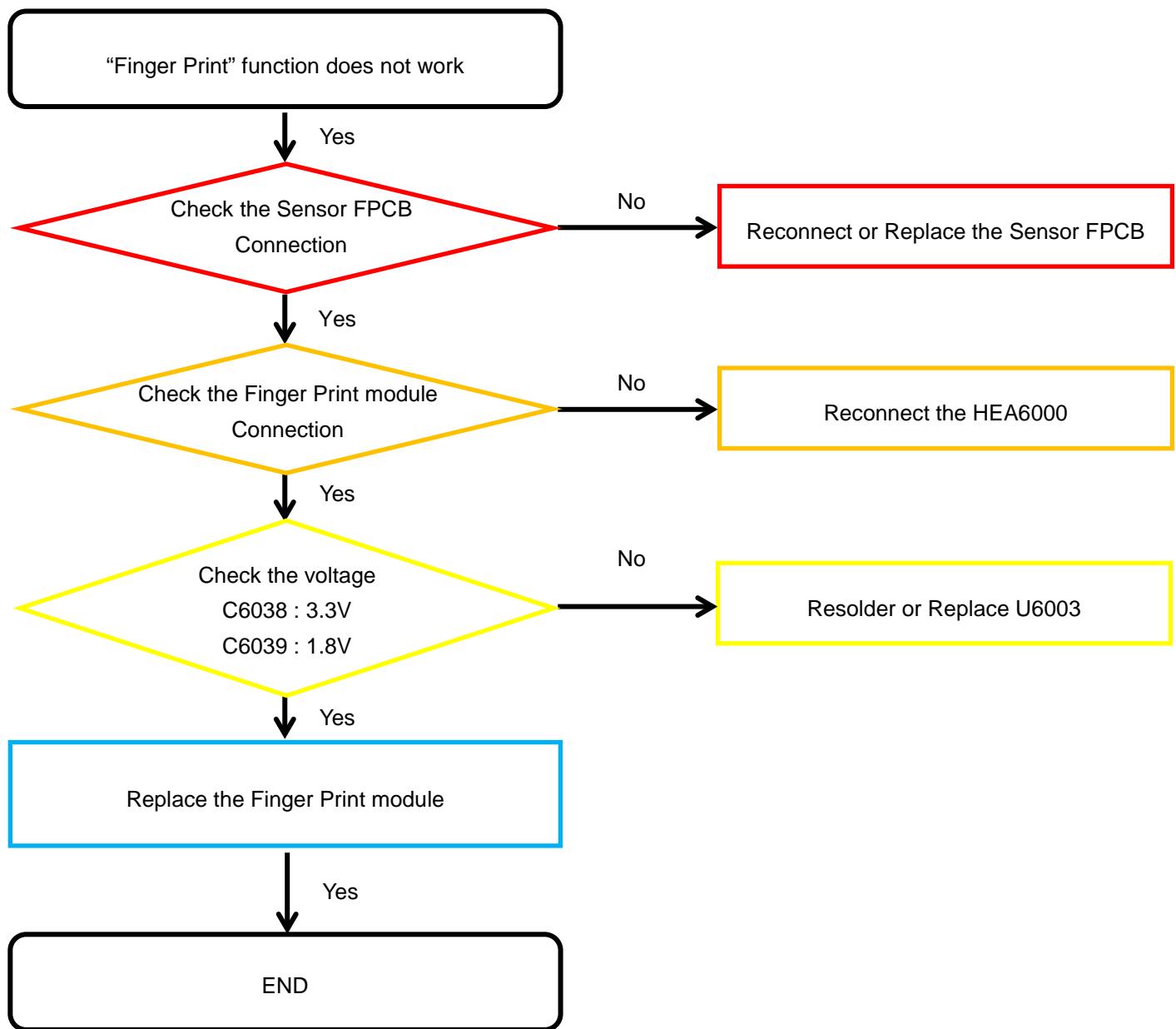
8. Level 3 Repair

8-4-16. Front CAMERA



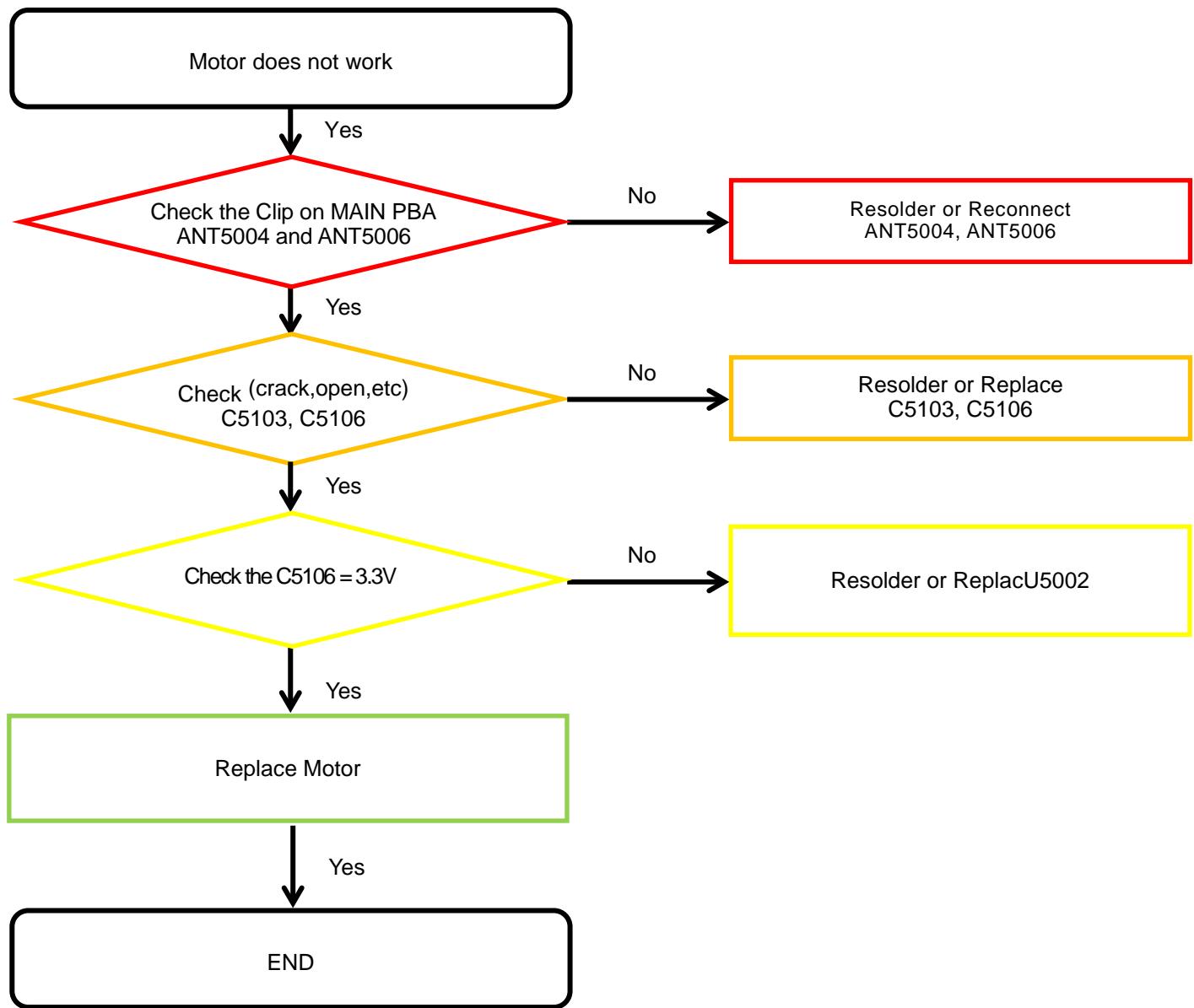
8. Level 3 Repair

8-4-17.Finger Print



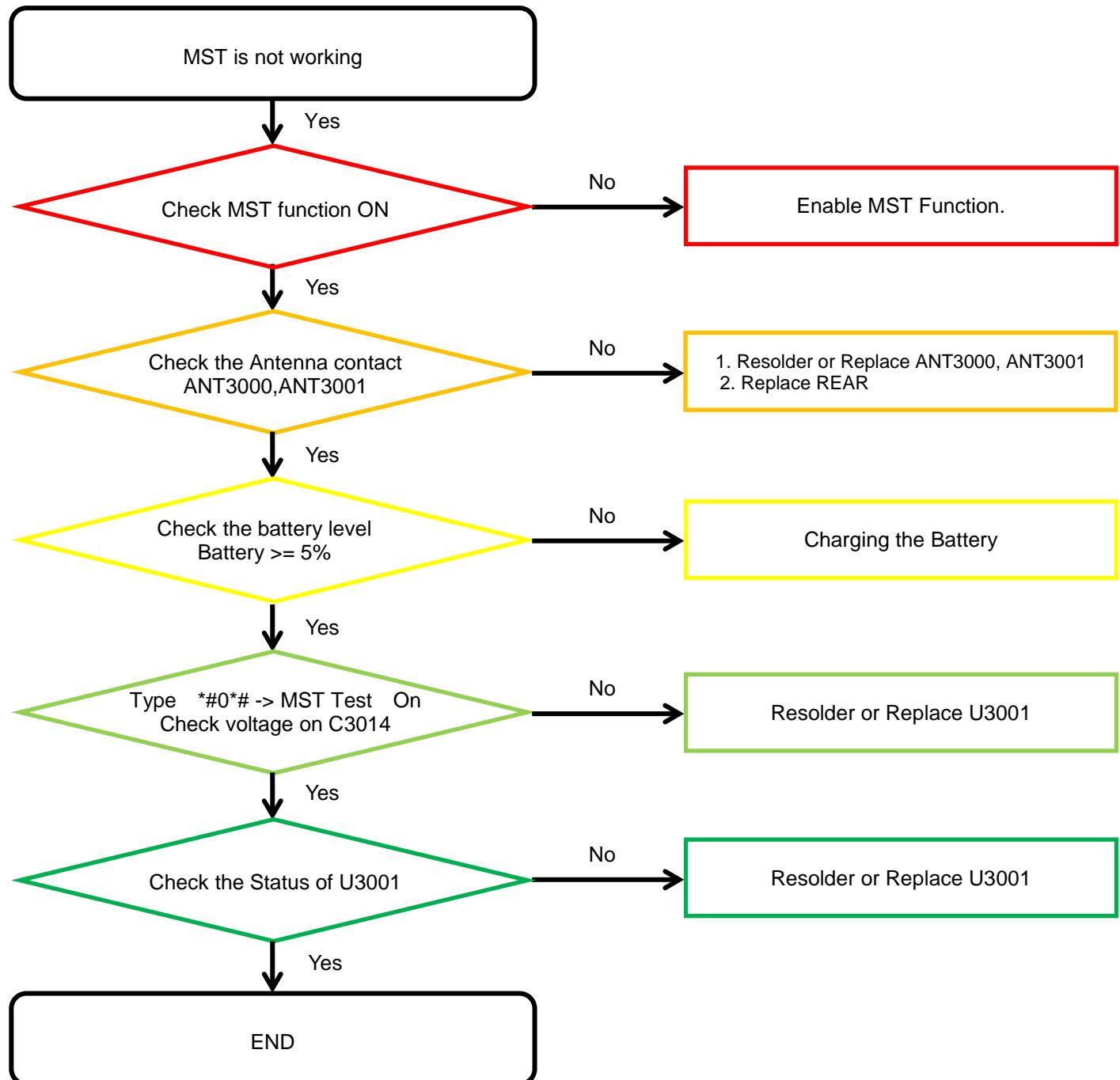
8. Level 3 Repair

8-4-20. Motor



8. Level 3 Repair

8-4-21. MST [SM-J530FM/GM/YM)



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

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