

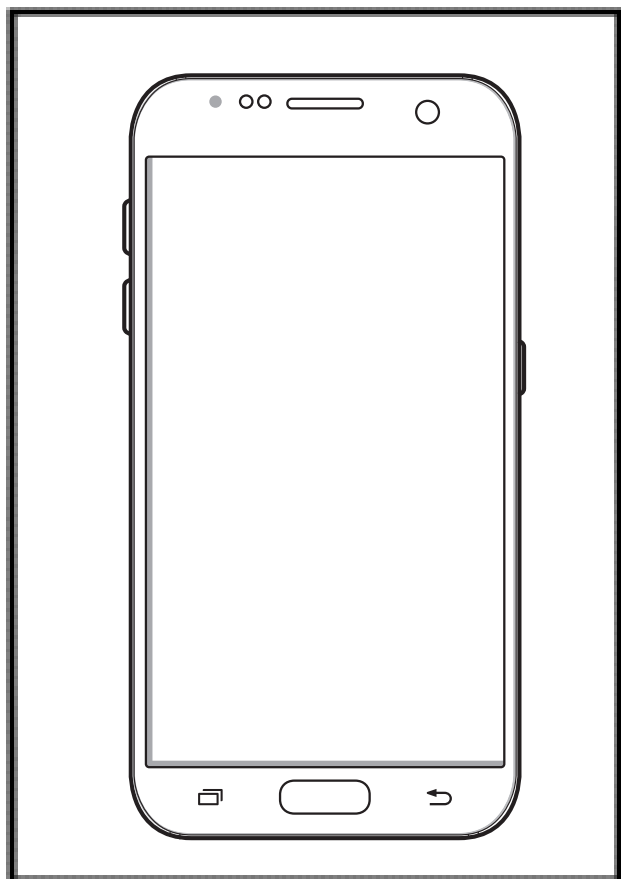
SAMSUNG

Mobile Device SM-G930V

SERVICE *Manual*

Mobile Device

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

1.Safety Precautions

1-1. Repair Precaution

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

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

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

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

We recommend 22-gauge twisted copper wire.

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

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

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

1.Safety Precautions

1-2. ESD(Electrostatically Sensitive Devices) Precaution

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

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

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

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

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

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

2. Specification

2.1 CDMA/LTE General Specification

	US PCS	CDMA	GPS	LTE FDD B13	LTE FDD B4
Tx Freq. range	1850 ~ 1910MHz	824.04 ~ 848.97MHz		777 ~787 MHz	1710~1755 MHz
Rx Freq. range	1930 ~ 1990MHz	869.04 ~ 893.97MHz	1575.42MHz	746 ~ 756 MHz	2110~2155 MHz
Channel Bandwidth	1.23MHz	1.23MHz	2MHz	10 MHz	5, 10, 20 MHz
Channel Spacing	50KHz	30KHz	Not Used	180KHz	180KHz
Number of Channel	1200	832	1	50(# of RB)	25, 50, 100
Duplex Separation	80MHz	45MHz	-	31MHz	400 MHz
Type of Emission	1M29F9W	1M28F9W	-	4M52G7D (QPSK) 4M50W7D (16QAM) 8M97G7D (QPSK) 8M96W7D (16QAM)	4M53G7D (QPSK) 4M49W7D (16QAM) 8M99G7D (QPSK) 8M97W7D (16QAM) 13M5G7D (QPSK) 13M5W7D (16QAM) 18M0G7D (QPSK) 18M0W7D (16QAM)
Tx Local Frequency	$F_{Tx} * 0.7999$	$F_{Tx} * 1.6666$	-		
Rx Local Frequency	$F_{Rx} * 0.8888$	$F_{Rx} * 2$	$F_{Rx} * 2$		
Frequency Stability	$(F_{Rx}-80\text{MHz})\pm 150\text{Hz}$	$(F_{Rx}-45\text{MHz})\pm 300\text{Hz}$			
Operating Temperature	-30°C ~ +60°C	-30°C ~ +60°C	-30°C ~ +60°C	-30°C ~ +60°C	-30°C ~ +60°C

2. Specification

	LTE FDD B2	LTE FDD B5
Tx Freq. range	1850 ~ 1910 MHz	824 ~ 849 MHz
Rx Freq. range	1930 ~ 1990 MHz	869 ~ 894 MHz
Channel Bandwidth	5, 10, 20 MHz	5, 10 MHz
Channel Spacing	180KHz	180KHz
Number of Channel	25, 50, 100	25, 50
Duplex Separation	80 MHz	55 MHz
Type of Emission	4M50G7D (QPSK) 4M50W7D (16QAM) 8M98G7D (QPSK) 8M96W7D (16QAM) 13M5G7D (QPSK) 13M5W7D (16QAM) 18M0G7D (QPSK) 18M0W7D (16QAM)	4M53G7D (QPSK) 4M51W7D (16QAM) 8M99G7D (QPSK) 8M97W7D (16QAM)
Tx Local Frequency		
Rx Local Frequency		
Frequency Stability		
Operating Temperature	-30°C ~ +60°C	-30°C ~ +60°C

2. Specification

2-2. GSM/WCDMA General Specification

	GSM850	EGSM 900	DCS1800	PCS1900	WCDMA 2100	WCDMA 1900	WCDMA 900	WCDMA 850
Freq. Band [MHz] Uplink/ Downlink	824~849 869~894	880~915 925~960	1710~1785 1805~1880	1850~1910 1930~1990	1922~1977 2112~2167	1852~1907 1932~1987	880~915 925~960	824~849 869~894
ARFCN range	128~251	0~124 & 975~1023	512~885	512~810	UL: 9612~9888 DL: 10562~10838	UL: 9262~9538 DL: 9662~9938	UL: 2712~2863 DL: 2937~3088	UL: 4132~4233 DL: 4357~4458
Tx/Rx spacing	45MHz	45MHz	95MHz	80MHz	190MHz	80MHz	45MHz	45MHz
Mod. Bit rate/ Bit Period	270.833kbps 3.692us	270.833kbps 3.692us	270.833kbps 3.692us	270.833kbps 3.692us	3.84Mcps	3.84Mcps	3.84Mcps	3.84Mcps
Time Slot Period/ Frame Period	576.9us 4.615ms	576.9us 4.615ms	576.9us 4.615ms	576.9us 4.615ms	FrameLength: 10ms Slotlength: 0.667ms	FrameLength: 10ms Slotlength: 0.667ms	FrameLength: 10ms Slotlength: 0.667ms	FrameLength: 10ms Slotlength: 0.667ms
Modulation	0.3GMSK	0.3GMSK	0.3GMSK	0.3GMSK	QPSK/HQPSK	QPSK/HQPSK	QPSK/HQPSK	QPSK/HQPSK
MS Power	33dBm~5dBm	33dBm~5dBm	30dBm~0dBm	30dBm~0dBm	24dBm~-50dBm	24dBm~-50dBm	24dBm~-50dBm	24dBm~-50dBm
Power Class	5pcl ~ 19pcl	5pcl ~ 19pcl	0pcl ~ 15pcl	0pcl ~ 15pcl	3(max+24dBm)	3(max+24dBm)	3(max+24dBm)	3(max+24dBm)
Sensitivity	-102dBm	-102dBm	-100dBm	-100dBm	-106.7dBm	-106.7dBm	-106.7dBm	-106.7dBm
TDMA Mux	8	8	8	8	8	8	8	8
Cell Radius	35Km	35Km	2Km	2Km	2Km	2Km	2Km	2Km

2. Specification

2-3. 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±3dBm	17	9±3dBm	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

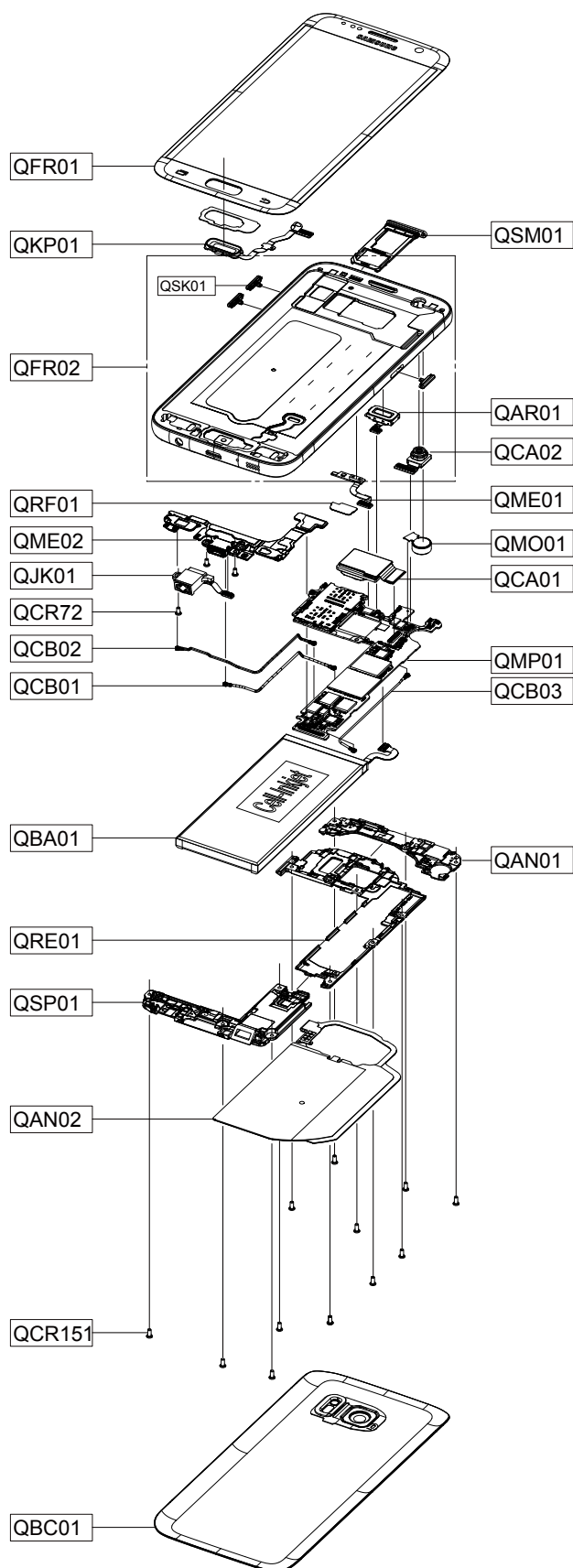
3. Operation Instruction and Installation

Main Function

Item	Description
OS	Android V6.0.1 (Marshmallow)
RF	2G CDMA : BC0/BC1/BC10 2G GSM 850(B5)/900(B8)/1800(B3)/1900(B2) 3G WCDMA : B1/B2/B4/B5/B8 4G(LTE) - FDD : B2 / B3 / B4 / B5 / B7 / B8 / B13 / B18 / B19 / B20 + B1 / B12 / / B25 / B26 / B29 / B30 - TDD : 38/39/40/41 - TD-SCDMA : B34/B39
Battery	3,000mAh
Base Band	2.15GHz Dual + 1.6GHz Dual
Other RF	GPS, Glonass, Beidou, BT 4.2, USB 2.0, NFC, WIFI 802.11 a/b/g/n/ac VHT80, MU-MIMO, NFC, MST
Camera	12.0MP Rear, Dual Pixel, Auto Focus, LED Flash 5.0MP Front
LCD	5.1", On-Cell Touch AMOLED, 2560 x 1440(QHD)
RAM	4GB RAM + 32GB eMMC
Sensor	Accelerometer, Barometer, Fingerprint Sensor, Gyro Sensor, Geomagnetic Sensor, Hall Sensor, HR Sensor, Proximity Sensor, RGB Light Sensor
Accessory	Charger: 5V/2A (AFC: 9V/1.67A) Data cable: 2.7pi, 1.2m OTG gender Ear phone: 3.5pi, 4pin

4. Exploded View and Parts List

4-1. Cellular phone Exploded View



※ SVC Repair Tape
QRT01, QRT02

5. MAIN Electrical Parts List

SEC CODE	Design LOC	Description
0403-002038	ZD7005,ZD7006	DIODE-ZENER
0404-001250	D4000,D7000,D7002	DIODE-SCHOTTKY
0404-001250	D7004	DIODE-SCHOTTKY
0406-001506	ZD2000,ZD4000,ZD4001	DIODE-TVS
0406-001506	ZD4002,ZD4003,ZD4004	DIODE-TVS
0406-001592	ZD9000,ZD9001,ZD9002	DIODE-TVS
0406-001592	ZD9003,ZD9005,ZD9009	DIODE-TVS
0406-001592	ZD9010,ZD9011,ZD9015	DIODE-TVS
0406-001592	ZD9016,ZD9017,ZD9020	DIODE-TVS
0406-001592	ZD9021,ZD9022	DIODE-TVS
0406-001596	ZD9006,ZD9012	DIODE-TVS
0406-001606	ZD9004,ZD9013,ZD9014	DIODE-TVS
0406-001675	ZD7002	DIODE-TVS
0406-001679	ZD4012,ZD4013,ZD4014	DIODE-TVS
0406-001690	ZD9007,ZD9008	DIODE-TVS
0406-001709	ZD9018,ZD9019	DIODE-TVS
0406-001713	ZD5004,ZD5005,ZD5006	DIODE-TVS
0406-001713	ZD5007,ZD5008,ZD5009	DIODE-TVS
0406-001715	ZD5000,ZD5001,ZD5003	DIODE-TVS
0406-001715	ZD5012	DIODE-TVS
0406-001717	ZD7000	DIODE-TVS
0406-001725	ZD4005,ZD4006	DIODE-TVS
0406-001729	ZD7003,ZD7004	DIODE-TVS
0505-003234	TR4000,TR7000	FET-SILICON
0505-003529	TR5000	FET-SILICON
0505-003564	TR9000	FET-SILICON
0505-003618	TR4001	FET-SILICON
0601-003552	LED7000	LED
0801-003435	U6005	IC
0801-003602	U4001	IC
1001-001844	U2009	IC
1001-001956	U1006,U1023,U2023	IC
1001-001975	U1014,U1021,U2002	IC
1001-001975	U3001	IC
1001-001990	U2001	IC
1001-001994	U1003	IC
1001-001996	U2013	IC

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1003-002805	U7019	IC
1009-001066	U4018	IC
1107-002450	UME6000	IC
1201-003729	U2022	IC
1201-003972	F1010	IC
1201-003973	U1009	IC
1201-003974	F1009	IC
1201-003976	U1015,U1017,U2000	IC
1201-003977	PAM1000	IC
1201-003983	U1024	IC
1201-003984	U1027,U1028	IC
1201-003985	U1026	IC
1201-004020	PAM1002	IC
1201-004024	PAM1003	IC
1201-004027	U8003	IC
1201-004031	PAM1001	IC
1202-001120	U9003	IC
1203-008250	U8004	IC
1203-008459	U7016	IC
1203-008472	U7012	IC
1203-008487	U4000	IC
1203-008603	U4005	IC
1203-008690	U7017	IC
1203-008697	U7003	IC
1203-008707	U7005	IC
1203-008709	U7010	IC
1203-008710	U2021	IC
1203-008718	U7000	IC
1203-008720	U9012	IC
1204-003661	U4007	IC
1204-003685	U8016	IC
1204-003686	U9011	IC
1205-005106	U5000	IC
1205-005228	U2011	IC
1205-005278	U2010	IC
1205-005491	U4002	IC
1205-005505	UCP501	IC
1205-005509	U8007	IC
1209-002244	U4012	IC

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1209-002245	U4016	IC
1209-002344	U4011	IC
1209-002405	U4014	IC
1404-001724	TH1000,TH5000,TH7000	THERMISTOR
1405-001183	VR8000,VR8001	VARISTOR
1405-001395	VR3000,VR3002,VR3004	VARISTOR
1405-001395	VR5000,VR6001,VR6003	VARISTOR
1405-001395	VR9000,VR9006,VR9008	VARISTOR
1405-001403	VR2001,VR3001	VARISTOR
1405-001404	VR2000,VR9003,VR9007	VARISTOR
1405-001420	VR2005	VARISTOR
2007-007741	R7002	R-CHIP
2007-007798	R5027	R-CHIP
2007-008045	R4003,R4005,R5050	R-CHIP
2007-008045	R8014,R8016,R9003	R-CHIP
2007-008052	R4000,R4001,R5014	R-CHIP
2007-008052	R5016,R5032,R9000	R-CHIP
2007-008055	R4006,R4007,R4010	R-CHIP
2007-008055	R7029	R-CHIP
2007-008210	R1008	R-CHIP
2007-008211	R4016	R-CHIP
2007-008263	R5026	R-CHIP
2007-008403	R7005,R7008	R-CHIP
2007-008419	R4004,R4011,R5049	R-CHIP
2007-008420	R4008,R5040,R6000	R-CHIP
2007-008486	R7001,R7004,R7024	R-CHIP
2007-008486	R9001,R9002,R9008	R-CHIP
2007-008516	R1007,R3000,R3001	R-CHIP
2007-008516	R4014,R4019,R6001	R-CHIP
2007-008516	R7006,R7019,R7020	R-CHIP
2007-008516	R7041,R7042,R8004	R-CHIP
2007-008516	R9004,R9011,R9021	R-CHIP
2007-008531	R5054,R7038,R7039	R-CHIP
2007-008582	R1009,R1010	R-CHIP
2007-008587	R8019	R-CHIP
2007-008588	R4018,R5000,R5001	R-CHIP
2007-008588	R5003,R5004,R5006	R-CHIP
2007-008588	R5007,R5008,R5009	R-CHIP
2007-008588	R5010,R5011,R5012	R-CHIP

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2007-008588	R5013,R5015,R5017	R-CHIP
2007-008588	R5018,R5019,R5020	R-CHIP
2007-008588	R5021,R5022,R5023	R-CHIP
2007-008588	R5024,R5025,R5028	R-CHIP
2007-008588	R5030,R8003,R9007	R-CHIP
2007-008774	R9015,R9016	R-CHIP
2007-009084	R4002	R-CHIP
2007-009111	R4020	R-CHIP
2007-009157	R4015,R7009,R7021	R-CHIP
2007-009157	R7022,R7025,R7028	R-CHIP
2007-009171	R4009,R9014	R-CHIP
2007-009201	R4013,R4026,R4027	R-CHIP
2007-009201	R8007,R8008,R8020	R-CHIP
2007-009201	R8021	R-CHIP
2007-009212	R8005,R8015	R-CHIP
2007-009223	R8000	R-CHIP
2007-009314	R5033	R-CHIP
2007-009793	R8001	R-CHIP
2007-009801	R5036	R-CHIP
2007-009805	R1000,R1005	R-CHIP
2007-009920	R5034,R5035,R5038	R-CHIP
2007-009920	R5039	R-CHIP
2007-009924	R9022,R9023	R-CHIP
2007-009969	R5005,R5053,R8006	R-CHIP
2007-010029	R4012	R-CHIP
2007-010202	R8002	R-CHIP
2007-010233	R5037	R-CHIP
2007-011043	R5002,R5052	R-CHIP
2007-011648	R2002,R9019	R-CHIP
2007-012038	R7023	R-CHIP
2203-000311	C4001,C4016	C-CERAMIC,CHIP
2203-000438	C9049	C-CERAMIC,CHIP
2203-000489	C7098	C-CERAMIC,CHIP
2203-000725	C7036	C-CERAMIC,CHIP
2203-000854	C7139	C-CERAMIC,CHIP
2203-001153	C4015	C-CERAMIC,CHIP
2203-001383	L2049	C-CERAMIC,CHIP
2203-005682	C1014,C1052,C2037	C-CERAMIC,CHIP
2203-005682	C2044,C2071,C2073	C-CERAMIC,CHIP

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2203-005682	C4024,C4025,C4047	C-CERAMIC,CHIP
2203-005682	C4051,C4052,C4053	C-CERAMIC,CHIP
2203-005682	C4054,C5003,C5013	C-CERAMIC,CHIP
2203-005682	C8020,C8021,C8037	C-CERAMIC,CHIP
2203-005682	C8038,C8045,C8047	C-CERAMIC,CHIP
2203-005682	C8049,C8059,C9000	C-CERAMIC,CHIP
2203-005682	C9005,C9006,C9007	C-CERAMIC,CHIP
2203-005682	C9008,C9030,C9042	C-CERAMIC,CHIP
2203-005682	C9043,C9044	C-CERAMIC,CHIP
2203-005717	C1039,C1095,C1102	C-CERAMIC,CHIP
2203-005717	C1106	C-CERAMIC,CHIP
2203-005719	C4028	C-CERAMIC,CHIP
2203-005725	C1026,C1033,C1054	C-CERAMIC,CHIP
2203-005725	C1055,C1056,C1058	C-CERAMIC,CHIP
2203-005725	C1116,C2041,C2047	C-CERAMIC,CHIP
2203-005725	C2048,C2049,C2052	C-CERAMIC,CHIP
2203-005725	C2053,C2056,C2064	C-CERAMIC,CHIP
2203-005725	C2069,C2074,C2084	C-CERAMIC,CHIP
2203-005725	C2091,C5002,C5015	C-CERAMIC,CHIP
2203-005725	C9026	C-CERAMIC,CHIP
2203-005726	C4060,C4061,C4062	C-CERAMIC,CHIP
2203-005726	C4063,C4064,C4065	C-CERAMIC,CHIP
2203-005726	L1087	C-CERAMIC,CHIP
2203-005729	C1000,C1101,C3001	C-CERAMIC,CHIP
2203-005729	C7153,C7154	C-CERAMIC,CHIP
2203-005731	C1109,C3002,C9046	C-CERAMIC,CHIP
2203-005731	C9051	C-CERAMIC,CHIP
2203-005732	C7008,C9047,C9048	C-CERAMIC,CHIP
2203-005736	C1004,C1005,C1007	C-CERAMIC,CHIP
2203-005736	C1009,C1015,C1022	C-CERAMIC,CHIP
2203-005736	C1034,C1041,C1043	C-CERAMIC,CHIP
2203-005736	C1048,C1062,C1080	C-CERAMIC,CHIP
2203-005736	C1098,C1105,C2001	C-CERAMIC,CHIP
2203-005736	C2012,C2033,C2038	C-CERAMIC,CHIP
2203-005736	C2046,C2072,C2077	C-CERAMIC,CHIP
2203-005736	C2083,C3000,C3009	C-CERAMIC,CHIP
2203-005736	C3010,C3012,C3013	C-CERAMIC,CHIP
2203-005736	C4027,C7032,C7138	C-CERAMIC,CHIP
2203-005736	C8039,C8050,L1063	C-CERAMIC,CHIP

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2203-005736	L1075,L1088,L2041	C-CERAMIC,CHIP
2203-005777	C1018	C-CERAMIC,CHIP
2203-005779	C1084,C9004	C-CERAMIC,CHIP
2203-005789	C1002,C1012,C1032	C-CERAMIC,CHIP
2203-005789	C1049,C1076,C1078	C-CERAMIC,CHIP
2203-005789	C1081,C1086,C2082	C-CERAMIC,CHIP
2203-005789	L1009,L1012,L1052	C-CERAMIC,CHIP
2203-005789	L1054	C-CERAMIC,CHIP
2203-005806	C4003,C4006,C7053	C-CERAMIC,CHIP
2203-006121	C2057	C-CERAMIC,CHIP
2203-006187	C2005	C-CERAMIC,CHIP
2203-006194	C1019,C1064,C1085	C-CERAMIC,CHIP
2203-006194	C2039,C4036,C4039	C-CERAMIC,CHIP
2203-006194	C5006,C9050	C-CERAMIC,CHIP
2203-006305	C1057,C1071,L1018	C-CERAMIC,CHIP
2203-006318	C1016,C3006,L1026	C-CERAMIC,CHIP
2203-006318	L1040,L1067	C-CERAMIC,CHIP
2203-006399	C4043	C-CERAMIC,CHIP
2203-006400	C1036,C1040,C1051	C-CERAMIC,CHIP
2203-006400	C1087,C2027,C2036	C-CERAMIC,CHIP
2203-006400	C2051,C2067,C4031	C-CERAMIC,CHIP
2203-006400	C6004,C6005,C7040	C-CERAMIC,CHIP
2203-006423	C1031,C1088,C1093	C-CERAMIC,CHIP
2203-006423	C1097,C2007,C2011	C-CERAMIC,CHIP
2203-006423	C2014,C2015,C2016	C-CERAMIC,CHIP
2203-006423	C2017,C2028,C2029	C-CERAMIC,CHIP
2203-006423	C2030,C2034,C2068	C-CERAMIC,CHIP
2203-006423	C2090,C3021,C4033	C-CERAMIC,CHIP
2203-006423	C4034,C4037,C4038	C-CERAMIC,CHIP
2203-006423	C4041,C4042,C4048	C-CERAMIC,CHIP
2203-006423	C4049,C4050,C5001	C-CERAMIC,CHIP
2203-006423	C5007,C5008,C6083	C-CERAMIC,CHIP
2203-006423	C6091,C7039,C7067	C-CERAMIC,CHIP
2203-006423	C7068,C7126,C7134	C-CERAMIC,CHIP
2203-006423	C7145,C8000,C8001	C-CERAMIC,CHIP
2203-006423	C8002,C8003,C8004	C-CERAMIC,CHIP
2203-006423	C8006,C8026,C8036	C-CERAMIC,CHIP
2203-006423	C8042,C8051,C9020	C-CERAMIC,CHIP
2203-006556	C1092,C8016,L1013	C-CERAMIC,CHIP

5. MAIN Electrical Parts List

2203-006556	L1074	C-CERAMIC,CHIP
2203-006562	C7005,C7144	C-CERAMIC,CHIP
2203-006668	C9025	C-CERAMIC,CHIP
2203-006839	C3018,C3019,C4012	C-CERAMIC,CHIP
2203-006839	C4017,C8005,C8009	C-CERAMIC,CHIP
2203-006839	C8027,C8028,C8034	C-CERAMIC,CHIP
2203-006839	C8052	C-CERAMIC,CHIP
2203-006841	C4008,C7082,C7146	C-CERAMIC,CHIP
2203-007194	C1069,C2060,C2086	C-CERAMIC,CHIP
2203-007194	C4032	C-CERAMIC,CHIP
2203-007210	C4056,C5004,C6082	C-CERAMIC,CHIP
2203-007269	C9031	C-CERAMIC,CHIP
2203-007271	C1073,C4021,C7033	C-CERAMIC,CHIP
2203-007271	C7035,C7090,C7091	C-CERAMIC,CHIP
2203-007271	C7092,C7099,C7127	C-CERAMIC,CHIP
2203-007317	C4035,C4044,C4046	C-CERAMIC,CHIP
2203-007317	C6080,C8008,C9033	C-CERAMIC,CHIP
2203-007317	C9034	C-CERAMIC,CHIP
2203-007369	C2010	C-CERAMIC,CHIP
2203-007391	C2004,C2006,C2022	C-CERAMIC,CHIP
2203-007391	C2050,C2066,C4023	C-CERAMIC,CHIP
2203-007391	C7125,C8018,C8019	C-CERAMIC,CHIP
2203-007391	C8022	C-CERAMIC,CHIP
2203-007392	C7000,C7001	C-CERAMIC,CHIP
2203-007393	C3007,C4019	C-CERAMIC,CHIP
2203-007449	C2018,C2032,C3003	C-CERAMIC,CHIP
2203-007449	C4026,C4045,C4055	C-CERAMIC,CHIP
2203-007449	C4057,C4058,C5012	C-CERAMIC,CHIP
2203-007449	C6011,C6012,C6013	C-CERAMIC,CHIP
2203-007449	C6014,C6016,C6017	C-CERAMIC,CHIP
2203-007449	C6018,C6019,C6025	C-CERAMIC,CHIP
2203-007449	C6026,C6027,C6028	C-CERAMIC,CHIP
2203-007449	C6031,C6032,C6033	C-CERAMIC,CHIP
2203-007449	C6034,C6035,C6036	C-CERAMIC,CHIP
2203-007449	C6039,C6040,C6041	C-CERAMIC,CHIP
2203-007449	C6042,C6043,C6044	C-CERAMIC,CHIP
2203-007449	C6045,C6046,C6047	C-CERAMIC,CHIP
2203-007449	C6048,C6049,C6050	C-CERAMIC,CHIP
2203-007449	C6051,C6052,C6053	C-CERAMIC,CHIP

5. MAIN Electrical Parts List

2203-007449	C6054,C6055,C6060	C-CERAMIC,CHIP
2203-007449	C6061,C6062,C6063	C-CERAMIC,CHIP
2203-007449	C6064,C6065,C6066	C-CERAMIC,CHIP
2203-007449	C6068,C6069,C6070	C-CERAMIC,CHIP
2203-007449	C6071,C6072,C6073	C-CERAMIC,CHIP
2203-007449	C6074,C6075,C6076	C-CERAMIC,CHIP
2203-007449	C6077,C6086,C7011	C-CERAMIC,CHIP
2203-007449	C7012,C7013,C7023	C-CERAMIC,CHIP
2203-007449	C7031,C7034,C7041	C-CERAMIC,CHIP
2203-007449	C7042,C7045,C7046	C-CERAMIC,CHIP
2203-007449	C7048,C7049,C7050	C-CERAMIC,CHIP
2203-007449	C7051,C7052,C7054	C-CERAMIC,CHIP
2203-007449	C7055,C7056,C7057	C-CERAMIC,CHIP
2203-007449	C7058,C7059,C7060	C-CERAMIC,CHIP
2203-007449	C7063,C7076,C7077	C-CERAMIC,CHIP
2203-007449	C7080,C7135,C8014	C-CERAMIC,CHIP
2203-007449	C8017,C8024,C8029	C-CERAMIC,CHIP
2203-007449	C8030,C8031,C8040	C-CERAMIC,CHIP
2203-007449	C8043,C8044,C9028	C-CERAMIC,CHIP
2203-007449	C9040,C9053	C-CERAMIC,CHIP
2203-007456	C7142	C-CERAMIC,CHIP
2203-007474	C2003,C4040,C7132	C-CERAMIC,CHIP
2203-007474	C8041,C9022,C9023	C-CERAMIC,CHIP
2203-007474	C9024	C-CERAMIC,CHIP
2203-007503	C7004,C7133	C-CERAMIC,CHIP
2203-007544	C7085,C7088,C7089	C-CERAMIC,CHIP
2203-007544	C7093	C-CERAMIC,CHIP
2203-007634	C4013	C-CERAMIC,CHIP
2203-007775	C2059	C-CERAMIC,CHIP
2203-007781	C8056,C9036,C9037	C-CERAMIC,CHIP
2203-007781	C9038	C-CERAMIC,CHIP
2203-007796	C4000,C4002,C4022	C-CERAMIC,CHIP
2203-007796	C5000,C5009,C8055	C-CERAMIC,CHIP
2203-008097	C1067,C7026,C7081	C-CERAMIC,CHIP
2203-008097	C7083,C7107,C8010	C-CERAMIC,CHIP
2203-008158	C7094,C7095,C7101	C-CERAMIC,CHIP
2203-008158	C7102	C-CERAMIC,CHIP
2203-008161	C7096,C7100	C-CERAMIC,CHIP
2203-008242	C4029,C4030,C6015	C-CERAMIC,CHIP

5. MAIN Electrical Parts List

2203-008242	C6020,C6056,C6058	C-CERAMIC,CHIP
2203-008242	C6059,C6067,C6081	C-CERAMIC,CHIP
2203-008242	C7079,C7084,C7114	C-CERAMIC,CHIP
2203-008242	C7115,C7116,C7117	C-CERAMIC,CHIP
2203-008242	C7118,C7119,C7120	C-CERAMIC,CHIP
2203-008242	C7121,C7122,C7123	C-CERAMIC,CHIP
2203-008242	C7147,C8015,C9001	C-CERAMIC,CHIP
2203-008242	C9002,C9003,C9011	C-CERAMIC,CHIP
2203-008242	C9012,C9017,C9018	C-CERAMIC,CHIP
2203-008242	C9021,C9052	C-CERAMIC,CHIP
2203-008243	C1061,C2081	C-CERAMIC,CHIP
2203-008394	C1083,L1078	C-CERAMIC,CHIP
2203-008527	C7017,C7021,C7022	C-CERAMIC,CHIP
2203-008527	C9027,C9035	C-CERAMIC,CHIP
2203-008529	C3008	C-CERAMIC,CHIP
2203-008572	C8011,C8012,C8013	C-CERAMIC,CHIP
2203-008860	C1072,C4007,C4011	C-CERAMIC,CHIP
2203-008860	C4020,C7028,C7029	C-CERAMIC,CHIP
2203-008860	C7108,C8054,C8060	C-CERAMIC,CHIP
2203-008860	C9009,C9013,C9014	C-CERAMIC,CHIP
2203-008860	C9039,C9041	C-CERAMIC,CHIP
2203-008876	C1010,C1044,C7003	C-CERAMIC,CHIP
2203-008876	C7010,C7014,C7015	C-CERAMIC,CHIP
2203-008876	C7016,C7018,C7019	C-CERAMIC,CHIP
2203-008876	C7020,C7024,C7025	C-CERAMIC,CHIP
2203-008876	C7027,C7030,C7109	C-CERAMIC,CHIP
2203-008876	C7110,C7111	C-CERAMIC,CHIP
2203-008960	C7086,C7087,C7104	C-CERAMIC,CHIP
2203-009064	C6001,C6002,C6003	C-CERAMIC,CHIP
2203-009064	C6007,C6008,C6009	C-CERAMIC,CHIP
2203-009064	C6010	C-CERAMIC,CHIP
2203-009167	C7136	C-CERAMIC,CHIP
2203-009328	C7130,C7137,C9019	C-CERAMIC,CHIP
2203-009444	C7006	C-CERAMIC,CHIP
2203-009537	C7112,C7129,C7131	C-CERAMIC,CHIP
2203-009537	C9029	C-CERAMIC,CHIP
2203-009584	C4004,C4009	C-CERAMIC,CHIP
2203-009618	C2055,C7002,C7009	C-CERAMIC,CHIP
2203-009618	C7097,C9032	C-CERAMIC,CHIP

5. MAIN Electrical Parts List

2203-009733	C1006,C1063,C2061	C-CERAMIC,CHIP
2203-009733	C2062,C7037,C7128	C-CERAMIC,CHIP
2203-009733	C7148,C7149,C7150	C-CERAMIC,CHIP
2203-009733	C7151,C9045	C-CERAMIC,CHIP
2203-009735	C6000,C6021,C6022	C-CERAMIC,CHIP
2203-009735	C6093	C-CERAMIC,CHIP
2203-009736	C2054,C7043,C7044	C-CERAMIC,CHIP
2203-009736	C7047,C7113,C7124	C-CERAMIC,CHIP
2203-009736	C8007,C9010,C9015	C-CERAMIC,CHIP
2203-009736	C9016	C-CERAMIC,CHIP
2203-009738	C6029,C6092,C7061	C-CERAMIC,CHIP
2203-009738	C7062,C7064,C7065	C-CERAMIC,CHIP
2409-001369	TA7000,TA7001,TA7002	CAPACITOR
2409-001387	TA7003,TA7106	CAPACITOR
2703-002367	L2039	INDUCTOR-SMD
2703-002649	L1014,L1051,L2029	INDUCTOR-SMD
2703-002649	L3003	INDUCTOR-SMD
2703-002900	C1025,L1028	INDUCTOR-SMD
2703-002901	L1073,L2014,L2015	INDUCTOR-SMD
2703-002901	L2018,L2036	INDUCTOR-SMD
2703-002953	C1100,L1032,L1053	INDUCTOR-SMD
2703-002955	L1019	INDUCTOR-SMD
2703-002958	L1068,L1077,L1094	INDUCTOR-SMD
2703-002959	L9000	INDUCTOR-SMD
2703-002960	L1096,L2003,L2005	INDUCTOR-SMD
2703-002960	L2010,L4010,L4011	INDUCTOR-SMD
2703-002960	L4012	INDUCTOR-SMD
2703-002999	L1066	INDUCTOR-SMD
2703-003004	L1031	INDUCTOR-SMD
2703-003064	L4004	INDUCTOR-SMD
2703-003970	L1093	INDUCTOR-SMD
2703-004000	L1002	INDUCTOR-SMD
2703-004012	C1060,C1074,L1001	INDUCTOR-SMD
2703-004012	L1079	INDUCTOR-SMD
2703-004013	L2006	INDUCTOR-SMD
2703-004014	C1099,L1083	INDUCTOR-SMD
2703-004018	C1104,L2033	INDUCTOR-SMD
2703-004032	C1103,C2076,C2087	INDUCTOR-SMD
2703-004032	L1000,L1070,L2002	INDUCTOR-SMD

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2703-004032	L2031,L3006	INDUCTOR-SMD
2703-004033	L1071	INDUCTOR-SMD
2703-004034	C1030,C1038,C1107	INDUCTOR-SMD
2703-004034	C1108,C3005,L1082	INDUCTOR-SMD
2703-004034	L2026,L2030,L2037	INDUCTOR-SMD
2703-004034	L2038	INDUCTOR-SMD
2703-004035	C1046,L1037,L1042	INDUCTOR-SMD
2703-004035	L1050,L1064,L1092	INDUCTOR-SMD
2703-004035	L2019,L2021	INDUCTOR-SMD
2703-004036	L1072	INDUCTOR-SMD
2703-004037	C1013,C1028,C1047	INDUCTOR-SMD
2703-004037	C2009,C2025,C2063	INDUCTOR-SMD
2703-004037	L1005,L1046,L1055	INDUCTOR-SMD
2703-004037	L1085,L2007,L2023	INDUCTOR-SMD
2703-004037	L2025,L2028,L2042	INDUCTOR-SMD
2703-004038	C1021,C1075	INDUCTOR-SMD
2703-004286	L1062	INDUCTOR-SMD
2703-004299	C2089,L1003,L1086	INDUCTOR-SMD
2703-004299	L3000	INDUCTOR-SMD
2703-004300	C2020,L1011	INDUCTOR-SMD
2703-004317	C2035	INDUCTOR-SMD
2703-004328	C1001,C2042,C2045	INDUCTOR-SMD
2703-004328	L1058,L1065,L3002	INDUCTOR-SMD
2703-004328	L3005	INDUCTOR-SMD
2703-004362	L1029	INDUCTOR-SMD
2703-004364	C1091,L1069,L1081	INDUCTOR-SMD
2703-004364	L1084	INDUCTOR-SMD
2703-004365	C1117	INDUCTOR-SMD
2703-004366	C2000,L1015,L1021	INDUCTOR-SMD
2703-004366	L1043,L1057,L2032	INDUCTOR-SMD
2703-004367	L1025,L1061	INDUCTOR-SMD
2703-004368	L1089	INDUCTOR-SMD
2703-004371	L1091,L2017	INDUCTOR-SMD
2703-004786	L3004	INDUCTOR-SMD
2703-004862	C1045	INDUCTOR-SMD
2703-004911	L1004,L1080	INDUCTOR-SMD
2703-004976	L1027	INDUCTOR-SMD
2703-005058	L8010	INDUCTOR-SMD
2703-005066	L7017,L8000	INDUCTOR-SMD

5. MAIN Electrical Parts List

2703-005067	L7004,L7009,L7011	INDUCTOR-SMD
2703-005067	L7012,L7013,L7014	INDUCTOR-SMD
2703-005067	L7015,L7018,L7019	INDUCTOR-SMD
2703-005067	L7020,L7022,L7023	INDUCTOR-SMD
2703-005067	L9006	INDUCTOR-SMD
2703-005100	L8006,L8009	INDUCTOR-SMD
2703-005104	L4001,L4002	INDUCTOR-SMD
2703-005200	L7008,L7021	INDUCTOR-SMD
2703-005201	L7003,L7005	INDUCTOR-SMD
2703-005225	L7006,L7007,L7010	INDUCTOR-SMD
2703-005233	L9010,L9011	INDUCTOR-SMD
2703-005295	L2050	INDUCTOR-SMD
2703-005418	L9007	INDUCTOR-SMD
2703-005419	L9012	INDUCTOR-SMD
2703-005426	L2022	INDUCTOR-SMD
2703-005428	L9013	INDUCTOR-SMD
2703-005429	L2024	INDUCTOR-SMD
2801-005454	OSC7000	CRYSTAL-UNIT
2901-001690	C6006,C6023,C6024	FILTER-EMI SMD
2901-001690	C6037,C6038,C6057	FILTER-EMI SMD
2901-001690	C6094,C6095	FILTER-EMI SMD
2903-001535	F1006	FILTER-CERAMI
2904-002068	F2005	FILTER-SAW
2904-002134	F1004	FILTER-SAW
2904-002163	F1001,F2004	FILTER-SAW
2904-002168	F2006	FILTER-SAW
2904-002219	F1002	FILTER-SAW
2904-002241	F1007	FILTER-SAW
2904-002253	F1011	FILTER-SAW
2904-002286	F3000	FILTER-SAW
2904-002304	F1008	FILTER-SAW
2904-002305	F2001	FILTER-SAW
2904-002308	F1003,F2003	FILTER-SAW
2904-002323	F3001	FILTER-SAW
2904-002335	F2002	FILTER-SAW
2910-000302	DUP1000	FILTER
2911-000404	U2025	FILTER
2911-000406	F2007	FILTER
2911-000410	U2024	FILTER

5. MAIN Electrical Parts List

3003-001210	AU4000	Microphone
3301-001534	L8002,L8003	CORE-FERRITE BEAD
3301-001778	L1036	CORE-FERRITE BEAD
3301-001806	L8012,L8013,L8014	CORE-FERRITE BEAD
3301-001895	L2011,L2013	CORE-FERRITE BEAD
3301-001917	L8001	CORE-FERRITE BEAD
3301-002078	L9004	CORE-FERRITE BEAD
3301-002179	L8007,L8008	CORE-FERRITE BEAD
3301-002235	L2000,L4006,L4007	CORE-FERRITE BEAD
3301-002236	L9001,L9002,L9003	CORE-FERRITE BEAD
3301-002237	L4008,L4013,L4014	CORE-FERRITE BEAD
3301-002237	L8017,L9020,L9021	CORE-FERRITE BEAD
3301-002244	L2020	CORE-FERRITE BEAD
3301-002309	L2004,L2027,L4003	CORE-FERRITE BEAD
3301-002309	L4015	CORE-FERRITE BEAD
3301-002312	L9005,L9008,L9009	CORE-FERRITE BEAD
3301-002331	L4000,L7000,L7002	CORE-FERRITE BEAD
3705-001937	RFS1000,RFS1002	CONNECTOR-COAXIAL
3705-001937	RFS2000	CONNECTOR-COAXIAL
3705-002014	CON2000,RFS1001	CONNECTOR-COAXIAL
3709-001892	SIM500	CONNECTOR-CARD EDGE
3711-008716	HDC9001	CONNECTOR-HEADER
3711-008741	HDC4000	CONNECTOR-HEADER
3711-008800	HDC8000,HDC8002	CONNECTOR-HEADER
3711-008824	HEA8001	CONNECTOR-HEADER
3711-008847	HDC7000	CONNECTOR-HEADER
3711-008999	HDC9002	CONNECTOR-HEADER
3711-009058	HDC4001	CONNECTOR-HEADER
3711-009065	HDC9000	CONNECTOR-HEADER
3711-009066	HDC9003	CONNECTOR-HEADER
3712-001604	ANT2001,ANT2002	CONNECTOR
3712-001604	ANT2003,ANT2004	CONNECTOR
3712-001604	ANT2005,ANT3000	CONNECTOR
3712-001604	ANT3001,ANT3002	CONNECTOR
3712-001604	ANT3003,ANT4000	CONNECTOR
3712-001604	ANT4001,ANT7000	CONNECTOR
3712-001604	ANT7001,ANT7002	CONNECTOR
3712-001604	ANT7003,ANT7004	CONNECTOR
3712-001604	ANT7005,ANT9000	CONNECTOR

5. MAIN Electrical Parts List

3712-001604	ANT9001,ANT9002	CONNECTOR
3712-001604	ANT9003,ANT9004	CONNECTOR
3712-001621	ANT8000,ANT8003	CONNECTOR
3712-001626	ANT8001,ANT8002	CONNECTOR
4709-002196	F1000,F2000	RF-MODULE
4709-002278	F1005	RF-MODULE
4709-002443	U3000	RF-MODULE
GH60-00009A	CN1003,CN1004,CN1005	SUS
GH61-10712A	SUS9001,SUS9003	SUS
GH61-10714A	SUS9002	SUS
GH62-00040A	CN9003	Gasket
GH62-00043A	CN9002	Gasket
GH63-12189A	SC3000	SHIELD-COVER ET PAM
GH63-12191A	SC3003	SHIELD-COVER MEM
GH63-12192A	SC3002	SHIELD-COVER AP
GH98-38894A	SC3004	ASSY SHIELD CAN PAMID
GH98-38895A	SC3007	ASSY SHIELD CAN PMIC
GH98-38896A	SC3005	ASSY SHIELD CAN RF
GH98-38899A	SC3006	ASSY SHIELD CAN SUB PMIC
1105-002746	UCP501UP	IC
GH02-12084A	SC3003SP	Gasket

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

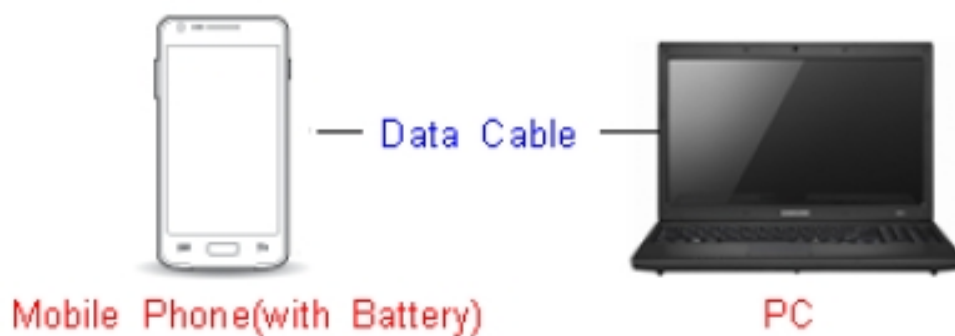
6. Level 1 Repair

6-1. S/W installation

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

- Installation program: Downloader Program ([Odin3 v3.11.1.exe](#))
- Mobile Phone
- Data Cable
- Mobile device specific S/W: Binary files

※ Settings

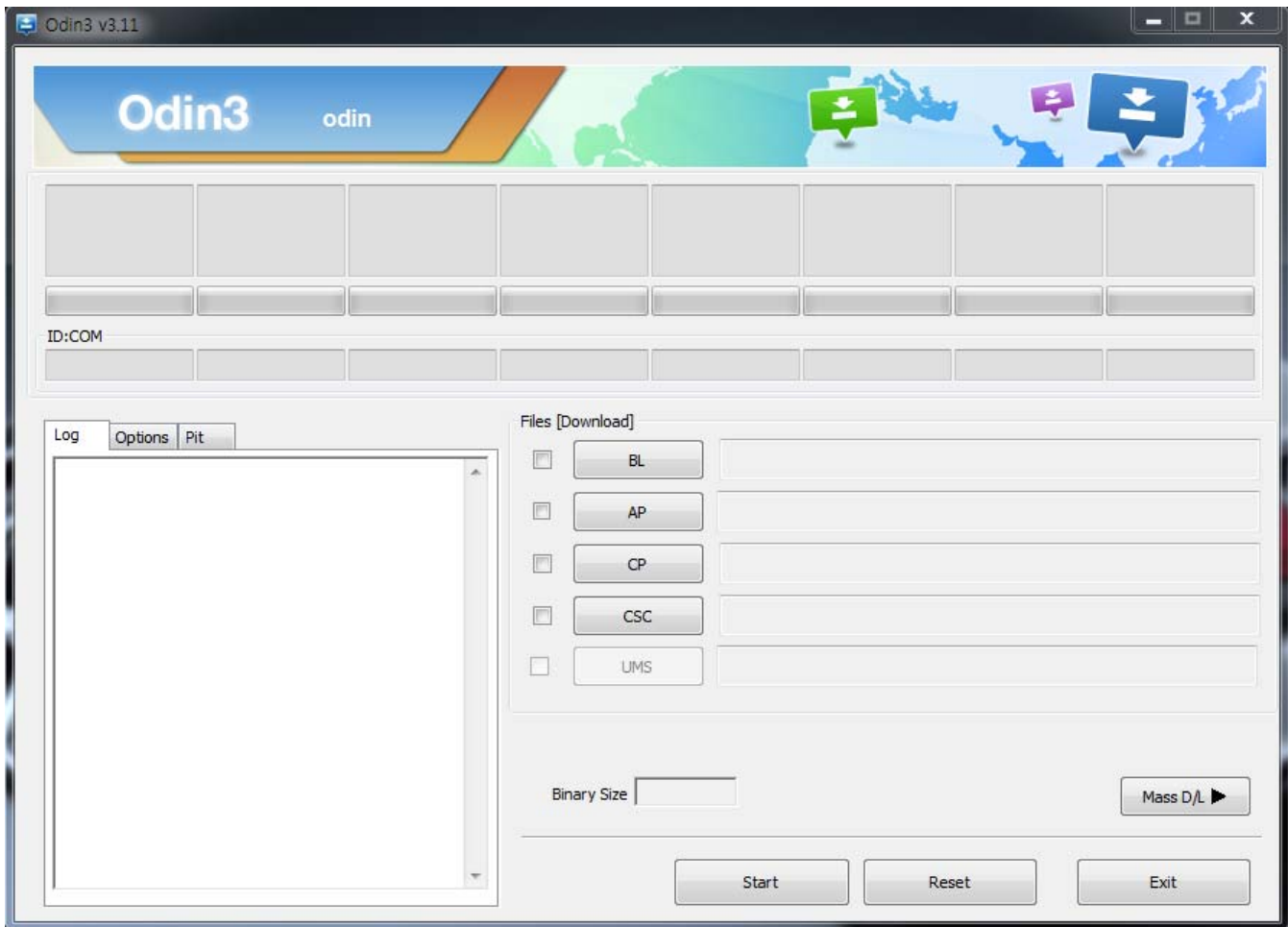


Data Cable : GH-01801B

6. Level 1 Repair

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

- Open up the S/W Installation Program by executing the **"Odin3 v3.11.1.exe"**

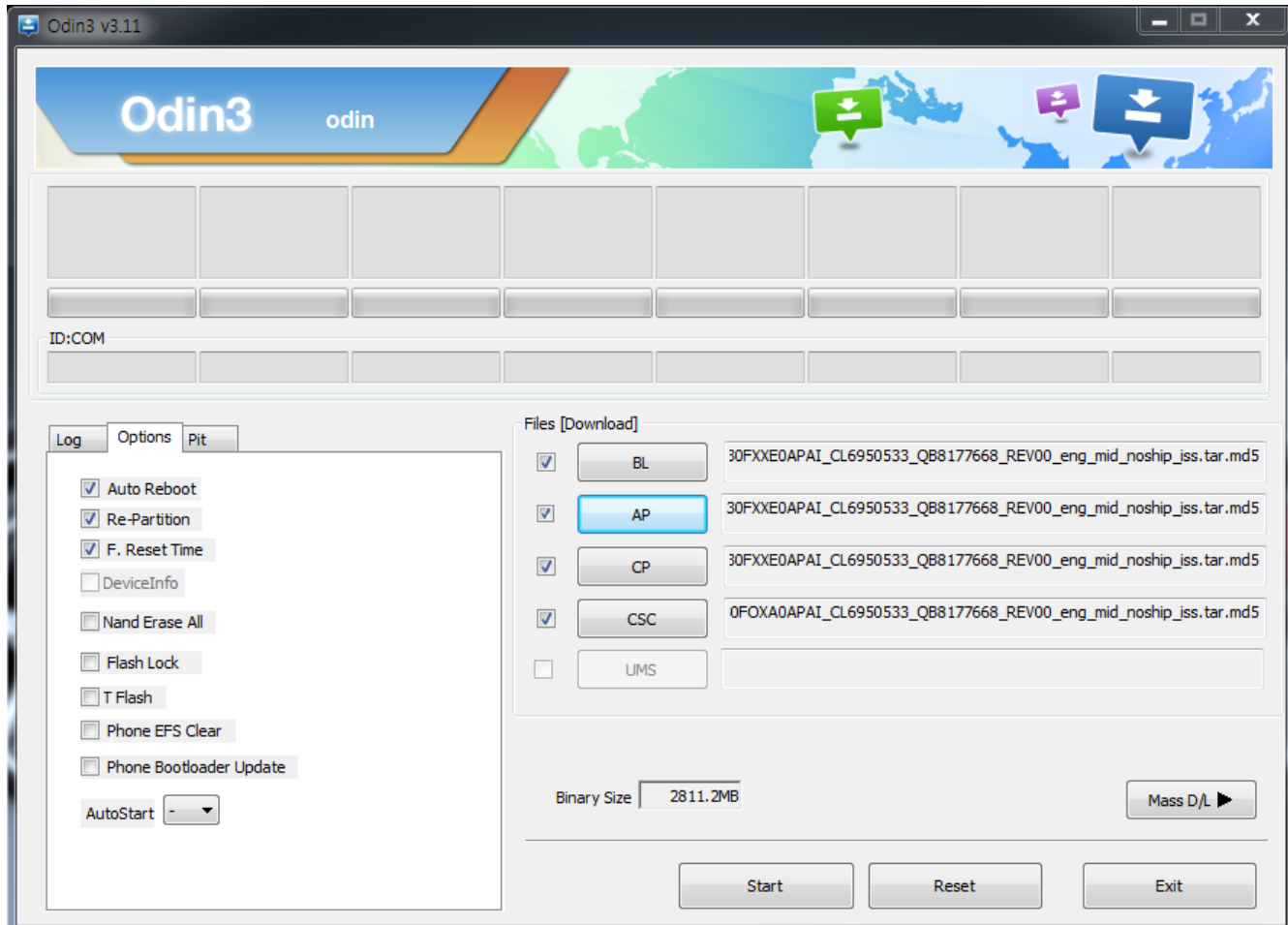


6. Level 1 Repair

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

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

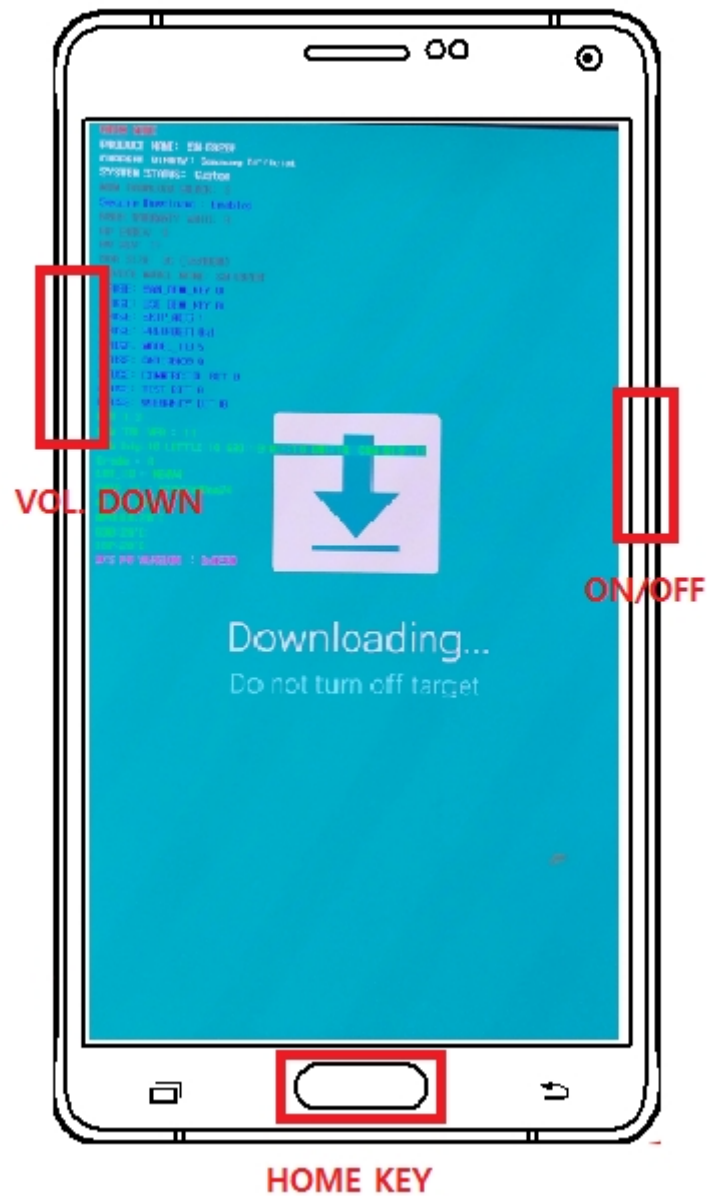
* Note : "Odin v3.10 or above" checks MD5 checksum just after file selection.



6. Level 1 Repair

2. Enter into Download Mode

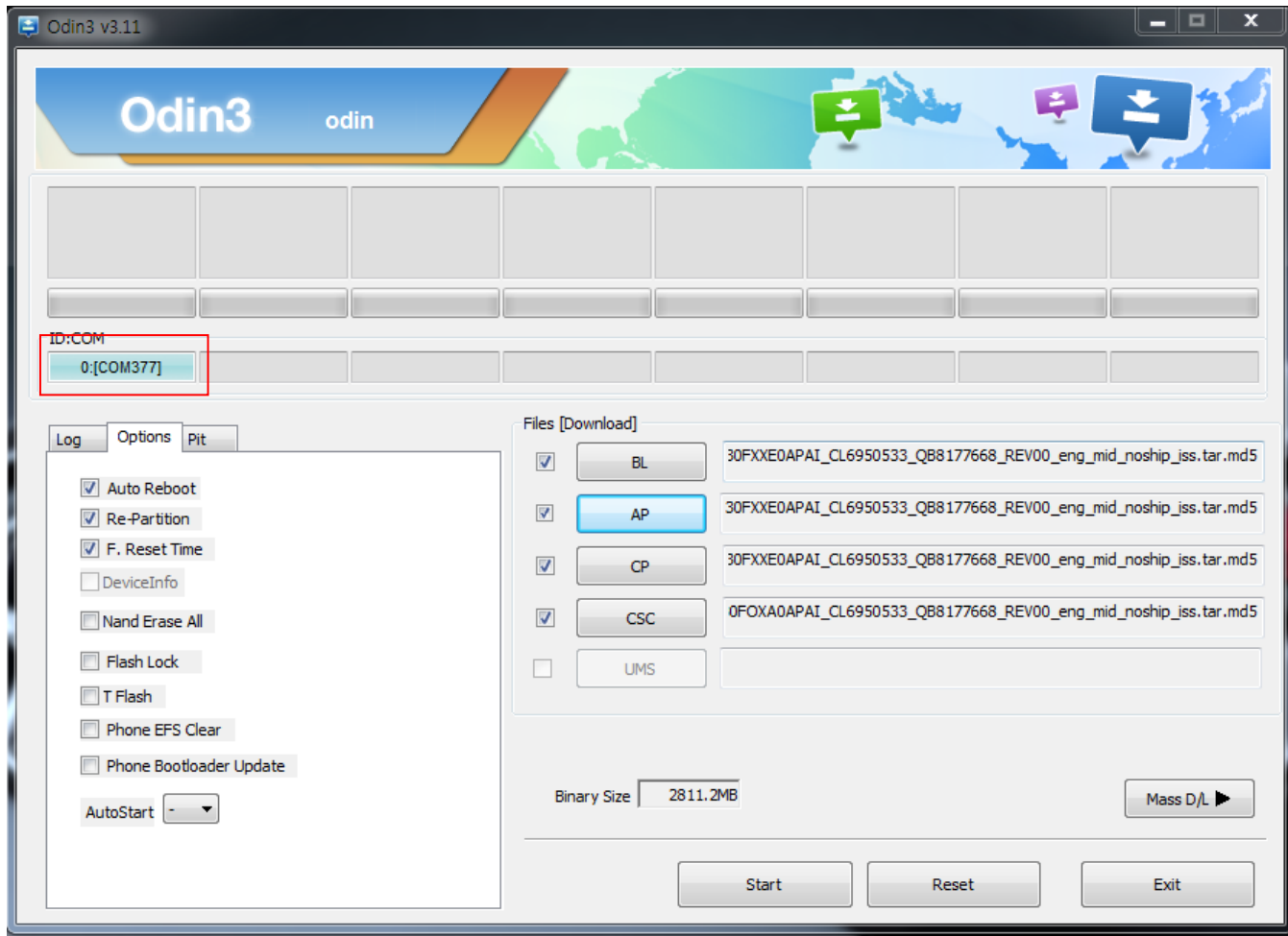
- Enter into Download Mode by pressing Home button, Volume Down button and Power On/Off Button simultaneously followed by pressing Volume up button as a direction of the phone.



6. Level 1 Repair

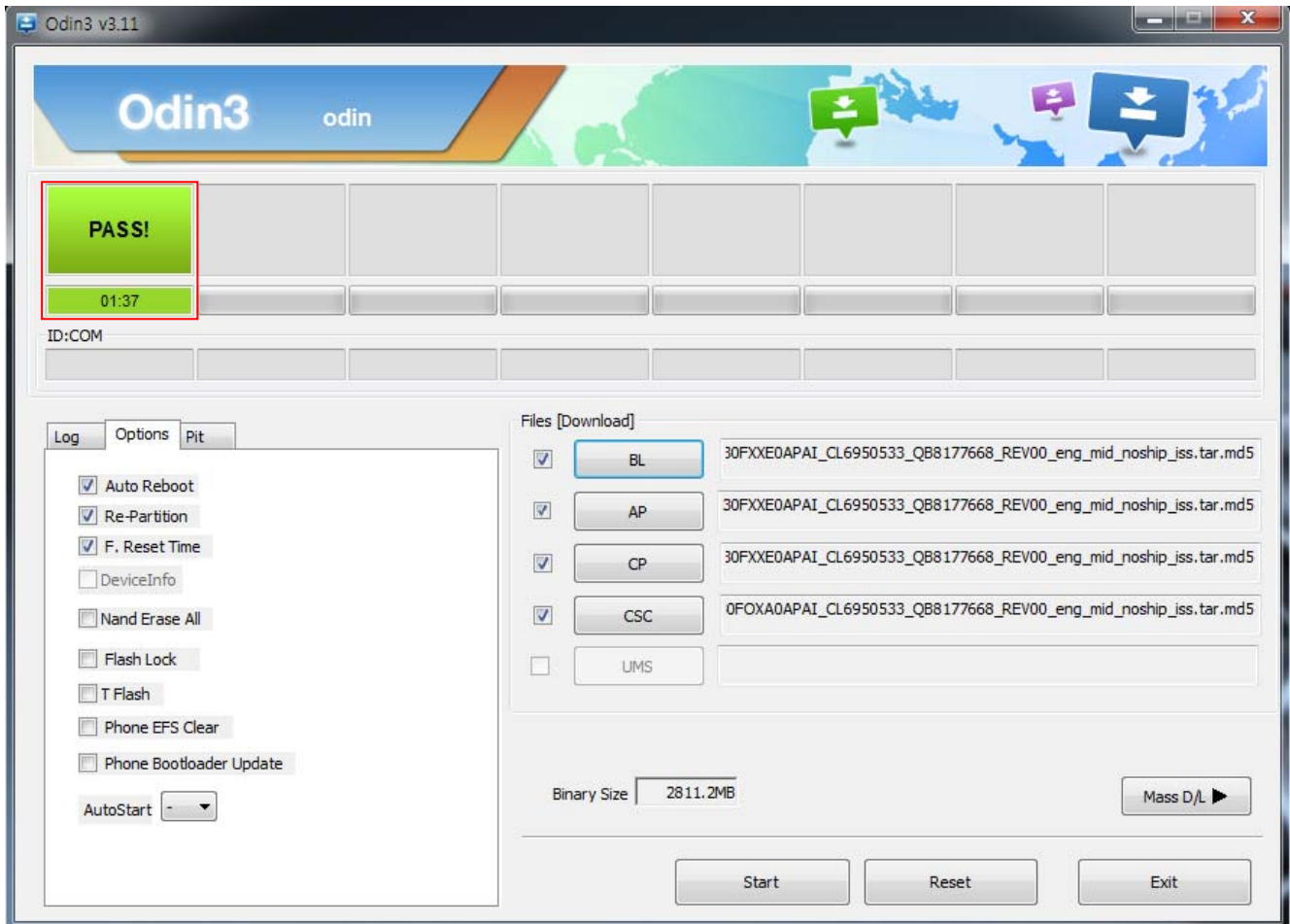
3. Connect the device to PC via Data Cable.

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#**

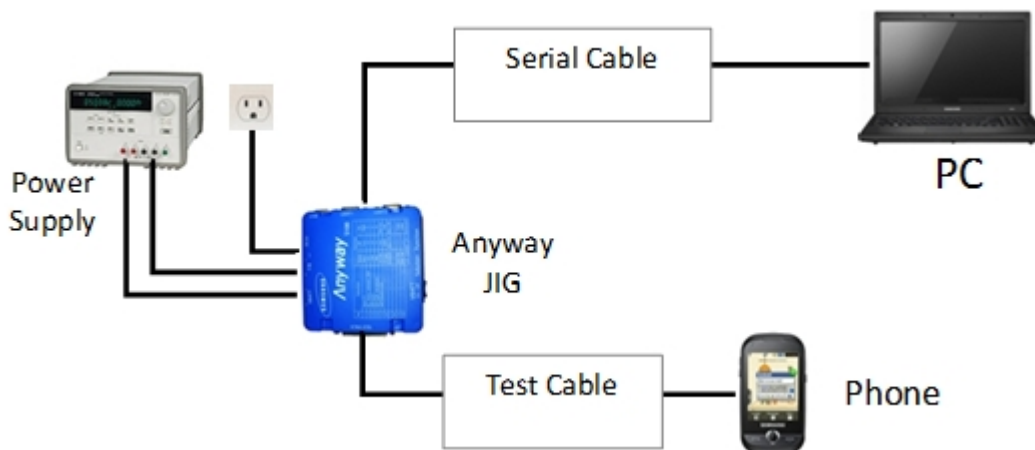
You can perform Factory Reset by Settings → Accounts → Backup and reset

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**



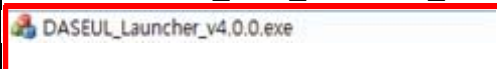
- S/W

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_v4.0.0 or higher -Uploaded on HHPsvc Notice
③ Runtime File	1. DASEUL_IMEI_ALL_Runtime_Ver_3.1.185.1_r00296.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

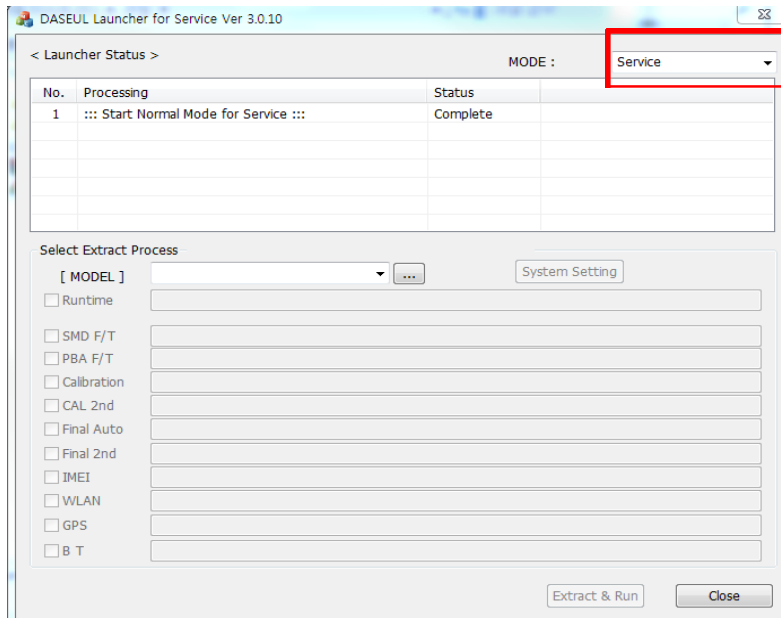
6. Level 1 Repair

6-2-2 IMEI writing Process

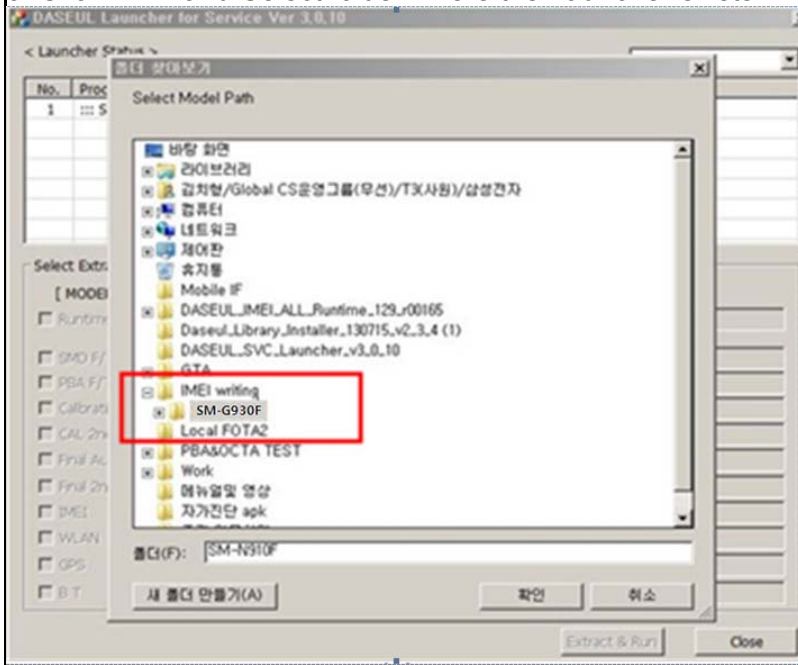
1. Run DASEUL_SVC_Launcher_v3.0.10.exe



2. Select Service Mode

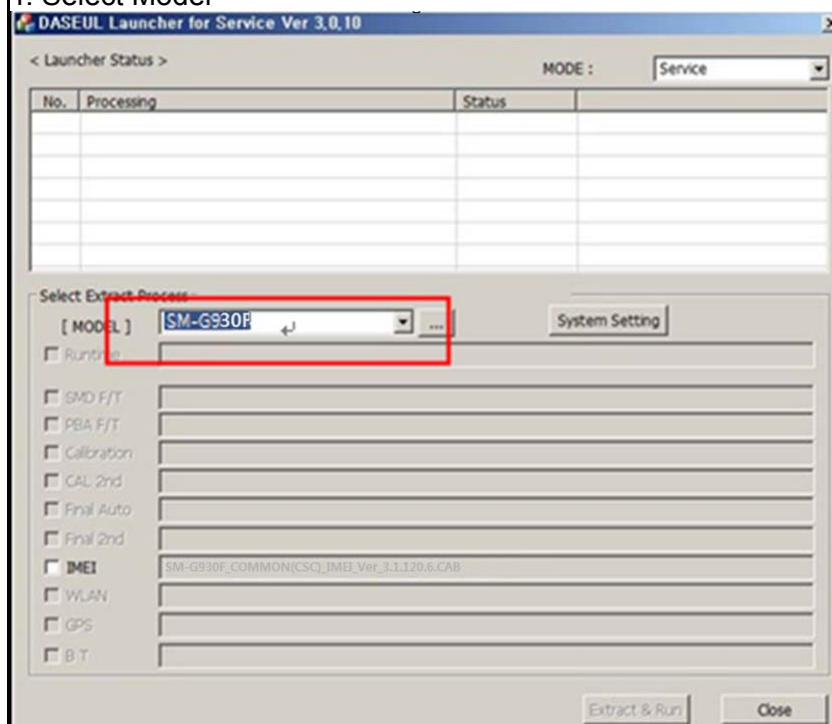


3. Click [Folder Icon] and Select folder where the Launcher exists



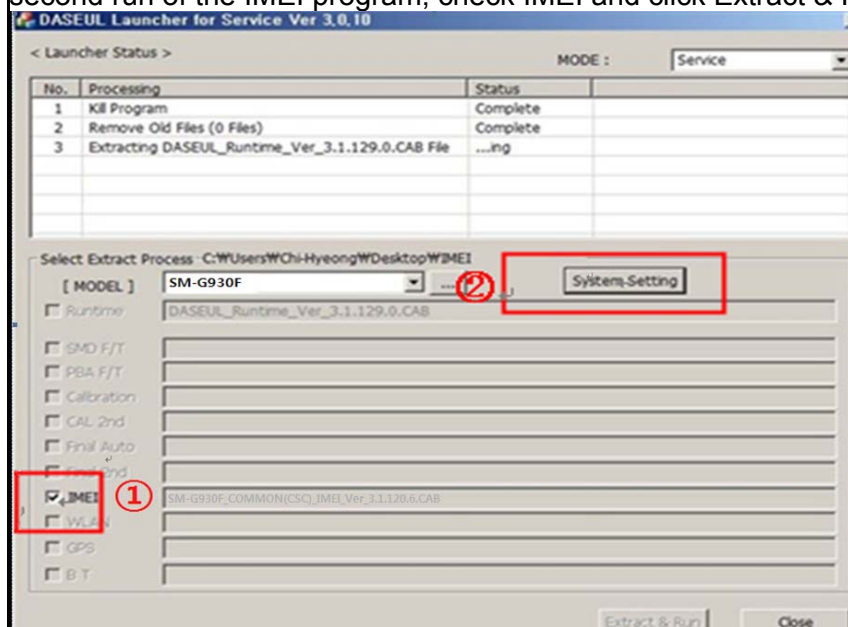
6. Level 1 Repair

4. Select Model



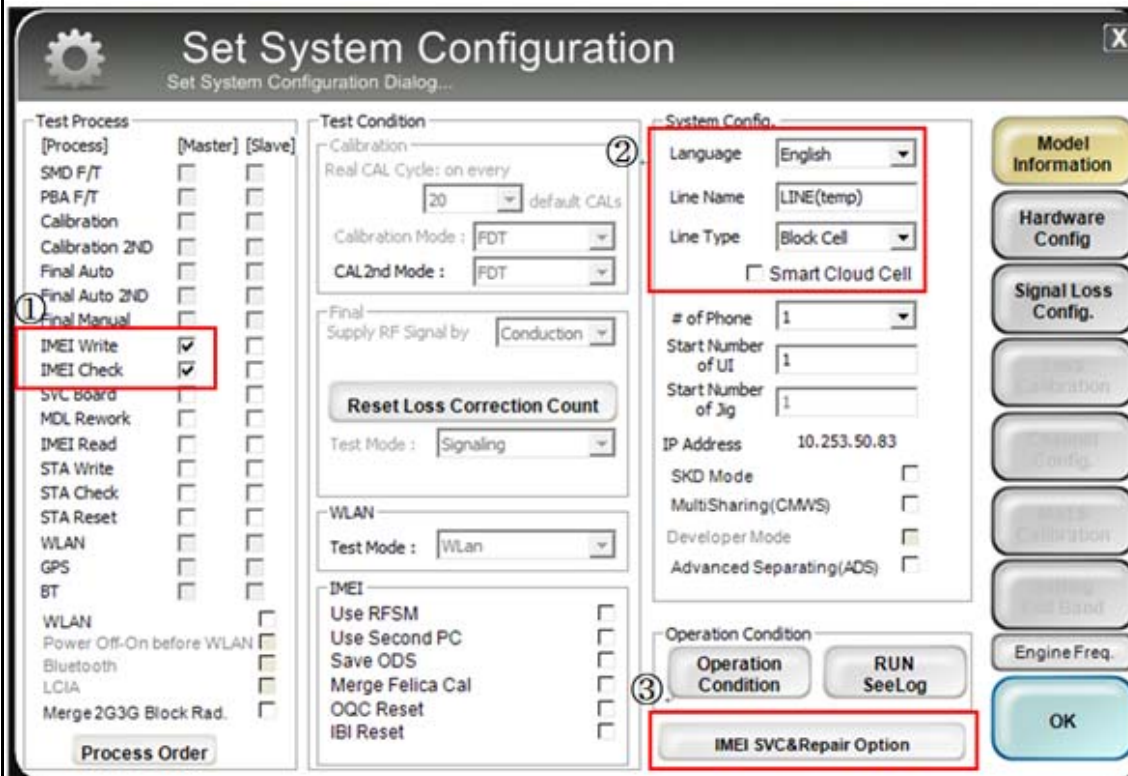
5. Check IMEI and click System Setting

※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.



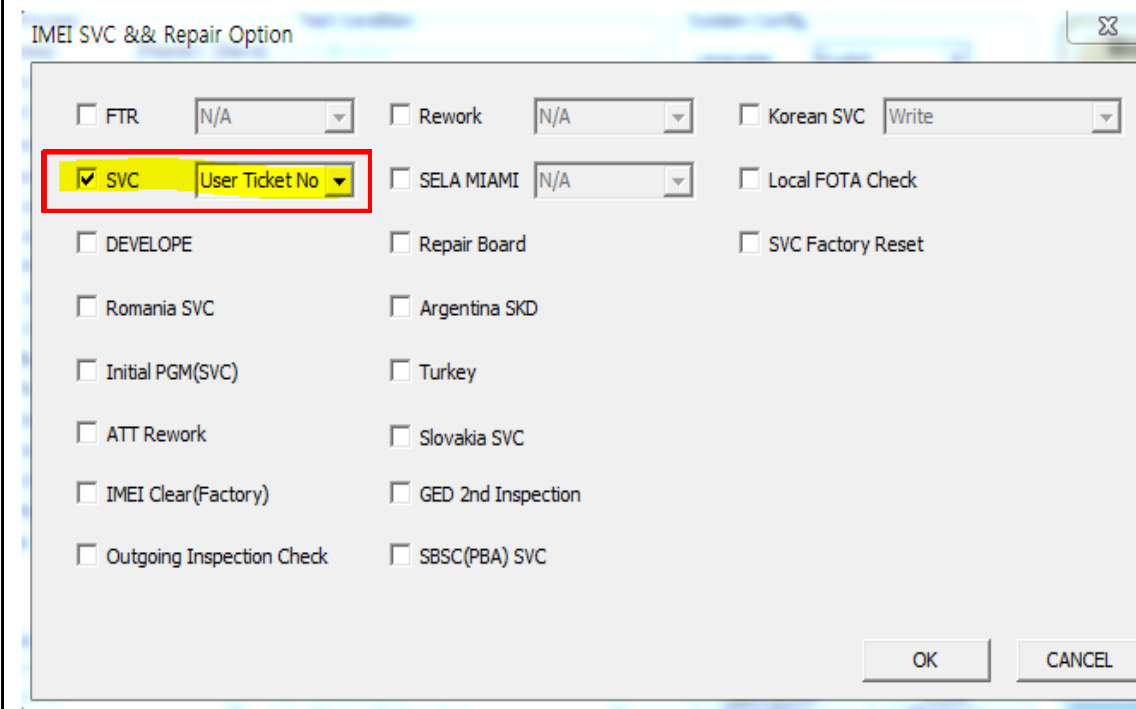
6. Level 1 Repair

6. Check 'IMEI Write / IMEI Check', and disable 'smart cloud cell' and click 'IMEI SVC & Repair Option'.



The 'Set System Configuration' dialog box is shown with several sections. In the 'Test Process' section on the left, 'IMEI Write' and 'IMEI Check' are checked and highlighted with a red box and a circled '1'. In the 'Test Condition' section, 'Calibration Mode' and 'CAL2nd Mode' are set to 'FDT', and 'Test Mode' is set to 'Signaling'. In the 'System Config' section, 'Language' is 'English', 'Line Name' is 'LINE(temp)', 'Line Type' is 'Block Cell', and 'Smart Cloud Cell' is unchecked. This section is highlighted with a red box and a circled '2'. At the bottom, the 'IMEI SVC & Repair Option' button is highlighted with a red box and a circled '3'. Other buttons on the right include 'Model Information', 'Hardware Config', 'Signal Loss Config.', 'Factory Calibration', 'Factory Config.', 'Factory Calibration', 'Factory Band', 'Engine Freq.', and 'OK'.

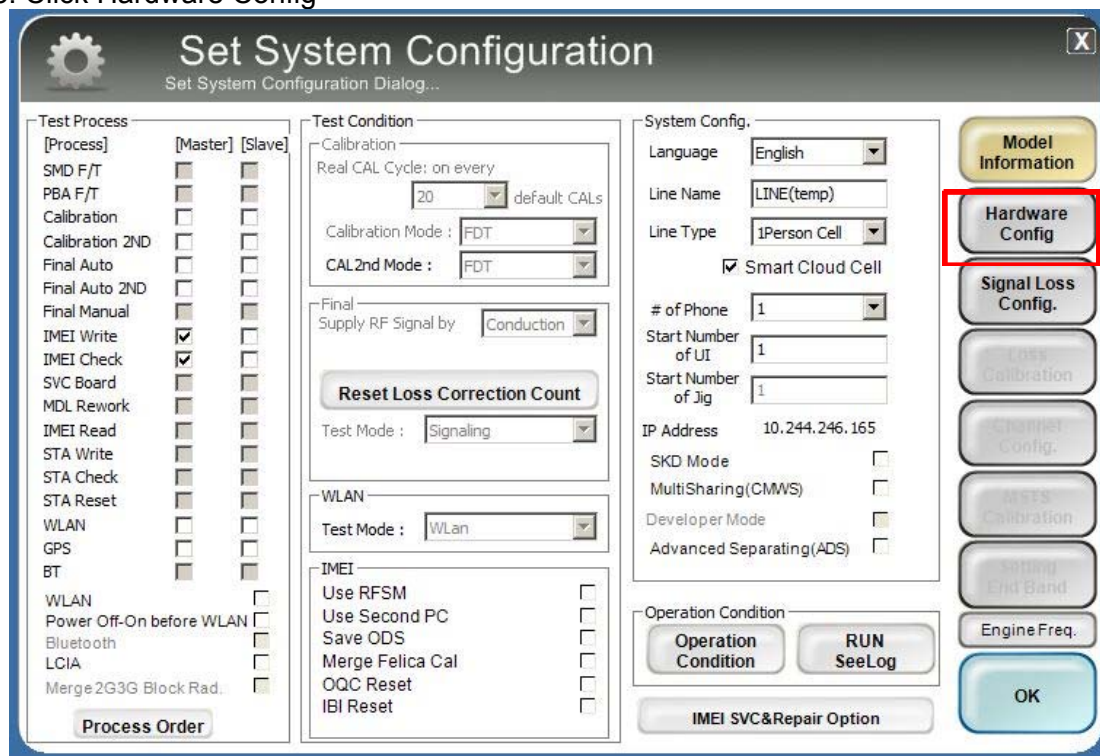
7. Check SVC , User Ticket No and click OK



The 'IMEI SVC && Repair Option' dialog box is shown. In the top row, 'FTR' is 'N/A', 'Rework' is 'N/A', and 'Korean SVC' is 'Write'. In the second row, 'SVC' is checked and highlighted with a red box, and 'User Ticket No' is selected from the dropdown menu. Other options include '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', and 'SBSC(PBA) SVC'. At the bottom, there are 'OK' and 'CANCEL' buttons.

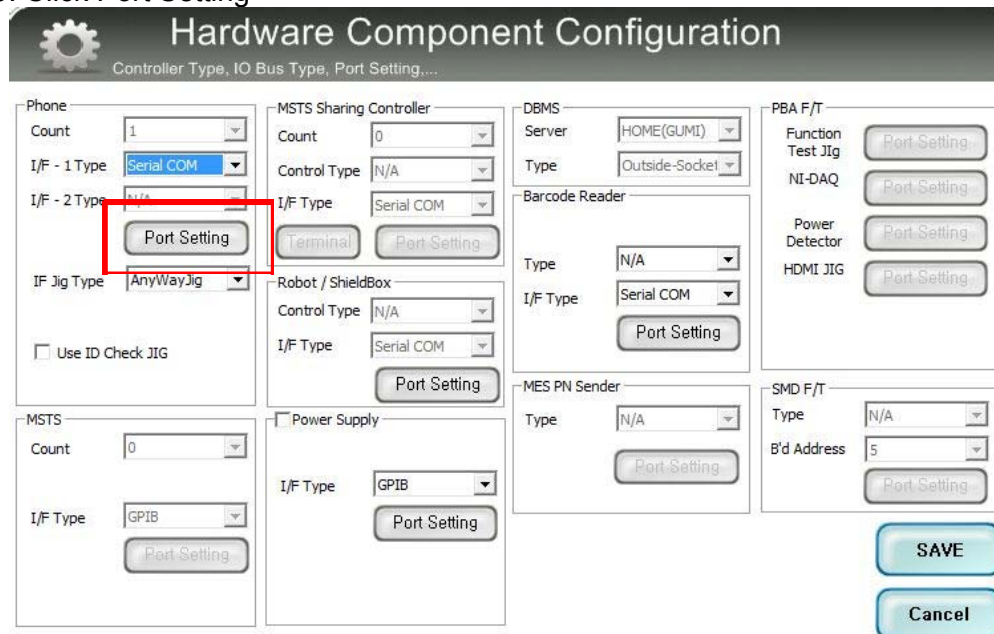
6. Level 1 Repair

8. Click Hardware Config



The 'Set System Configuration' dialog box is divided into several sections. On the left, the 'Test Process' section lists various tests with checkboxes for [Process], [Master], and [Slave]. The 'Test Condition' section includes 'Calibration' (Real CAL Cycle, Calibration Mode, CAL2nd Mode), 'Final' (Supply RF Signal by, Test Mode), 'WLAN' (Test Mode), and 'IMEI' (Use RFSM, Use Second PC, Save ODS, Merge Felica Cal, OQC Reset, IBI Reset). The 'System Config.' section includes 'Language' (English), 'Line Name' (LINE(temp)), 'Line Type' (1Person Cell), 'Smart Cloud Cell' (checked), '# of Phone' (1), 'Start Number of UI' (1), 'Start Number of Jig' (1), 'IP Address' (10.244.246.165), 'SKD Mode', 'MultiSharing(CMWS)', 'Developer Mode', and 'Advanced Separating(ADS)'. The 'Operation Condition' section has 'Operation Condition' and 'RUN SeeLog' buttons. The 'IMEI SVC&Repair Option' button is at the bottom. On the right, a vertical stack of buttons includes 'Model Information', 'Hardware Config' (highlighted with a red box), 'Signal Loss Config.', 'Loss Calibration', 'Channel Config.', 'MSTs Calibration', 'Setting End Band', 'Engine Freq.', and 'OK'.

9. Click Port Setting



The 'Hardware Component Configuration' dialog box is divided into several sections. The 'Phone' section includes 'Count' (1), 'I/F - 1 Type' (Serial COM), 'I/F - 2 Type' (N/A), 'IF Jig Type' (AnyWayJig), and 'Use ID Check JIG' (unchecked). The 'MSTS' section includes 'Count' (0) and 'I/F Type' (GPIOB). The 'MSTS Sharing Controller' section includes 'Count' (0), 'Control Type' (N/A), 'I/F Type' (Serial COM), 'Terminal' button, and 'Port Setting' button. The 'Robot / ShieldBox' section includes 'Control Type' (N/A), 'I/F Type' (Serial COM), and 'Port Setting' button. The 'Power Supply' section includes 'I/F Type' (GPIOB) and 'Port Setting' button. The 'DBMS' section includes 'Server' (HOME(GUMI)), 'Type' (Outside-Socket), 'Barcode Reader' (Type: N/A, I/F Type: Serial COM, Port Setting button), and 'MES PN Sender' (Type: N/A, Port Setting button). The 'PBA F/T' section includes 'Function Test Jig' (Port Setting button), 'NI-DAQ' (Port Setting button), 'Power Detector' (Port Setting button), 'HDMI JIG' (Port Setting button), 'SMD F/T' (Type: N/A, B'd Address: 5, Port Setting button), and 'SAVE' and 'Cancel' buttons at the bottom.

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

Model Information
Hardware Config
Signal Loss Config
Channel Config
Start Calibration
Setting Test Band

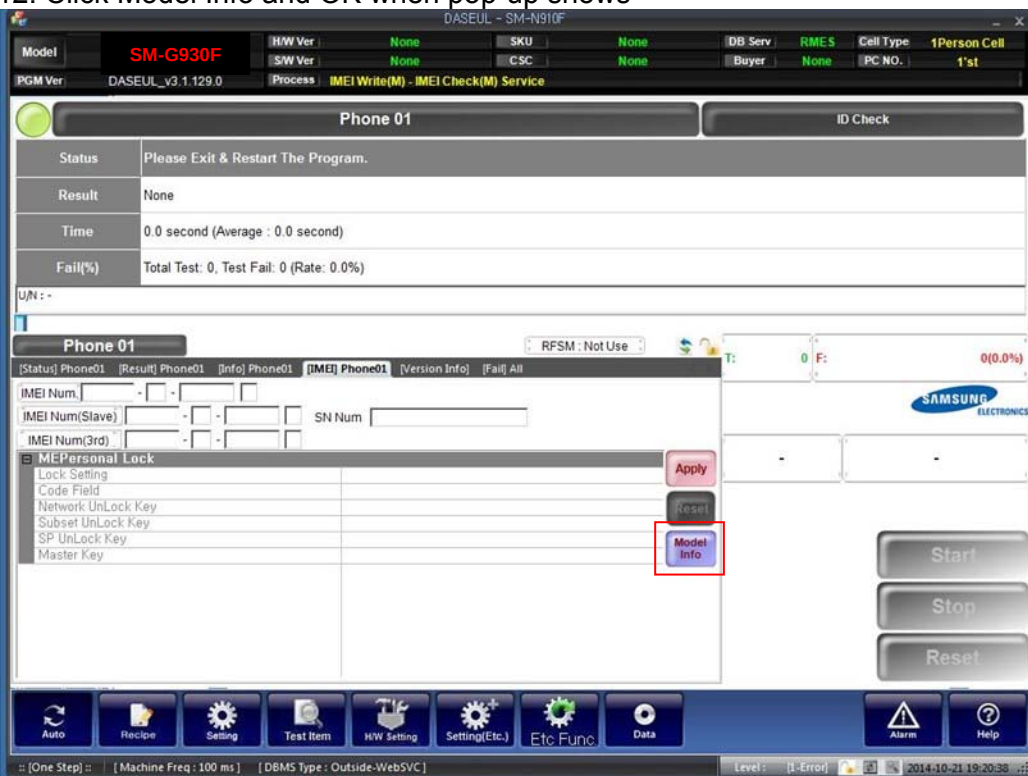
Operation Condition

Operation Condition

OK

6. Level 1 Repair

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



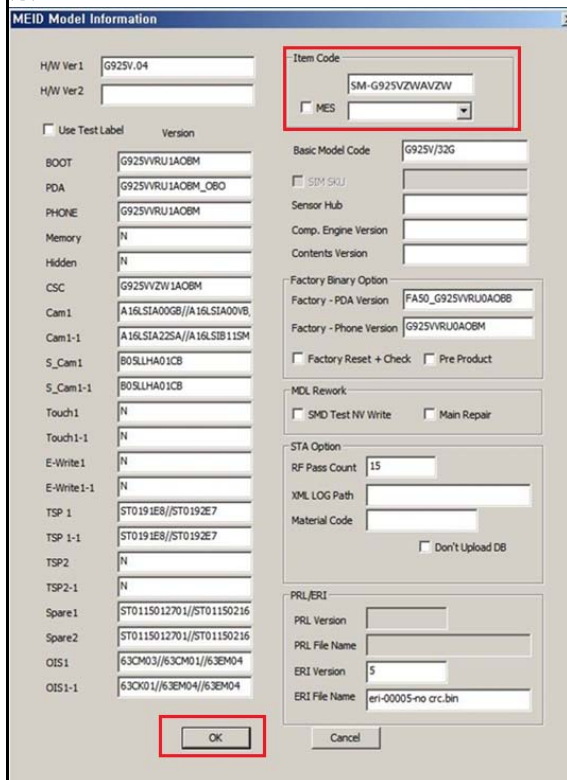
13. Click OK



6. Level 1 Repair

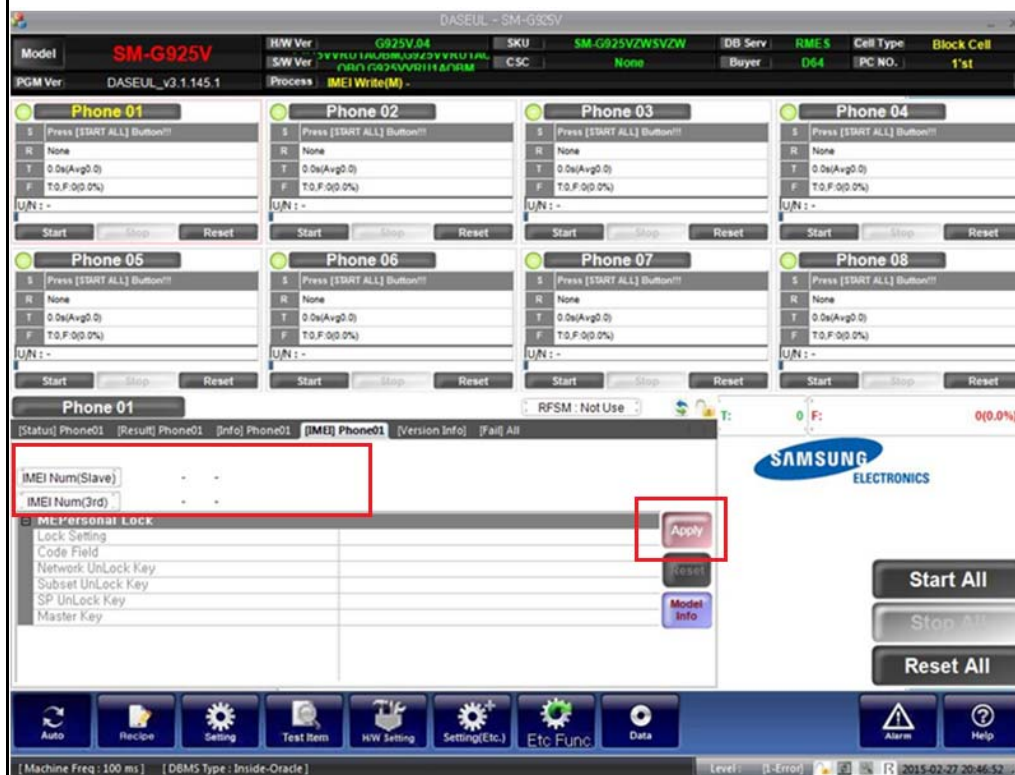
14. Input SKU_CODE and BUYER, then click Save button.

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



The MEID Model Information dialog box contains various fields for device identification. The 'Item Code' field is highlighted with a red box and contains the value 'SM-G925VZWAVZW'. Below it, the 'Basic Model Code' is 'G925V/32G'. The 'Factory Binary Option' section includes 'Factory - PDA Version' (FA50_G925VVRU0A08B) and 'Factory - Phone Version' (G925VVRU0A08B). The 'MDL Rework' section has 'SMD Test NV Write' and 'Main Repair' checkboxes. The 'STA Option' section includes 'RF Pass Count' (15), 'XML LOG Path', and 'Material Code'. The 'PRL/ERI' section includes 'PRL Version', 'PRL File Name', 'ERI Version' (5), and 'ERI File Name' (eri-00005-no arc.bin). The 'OK' button is highlighted with a red box.

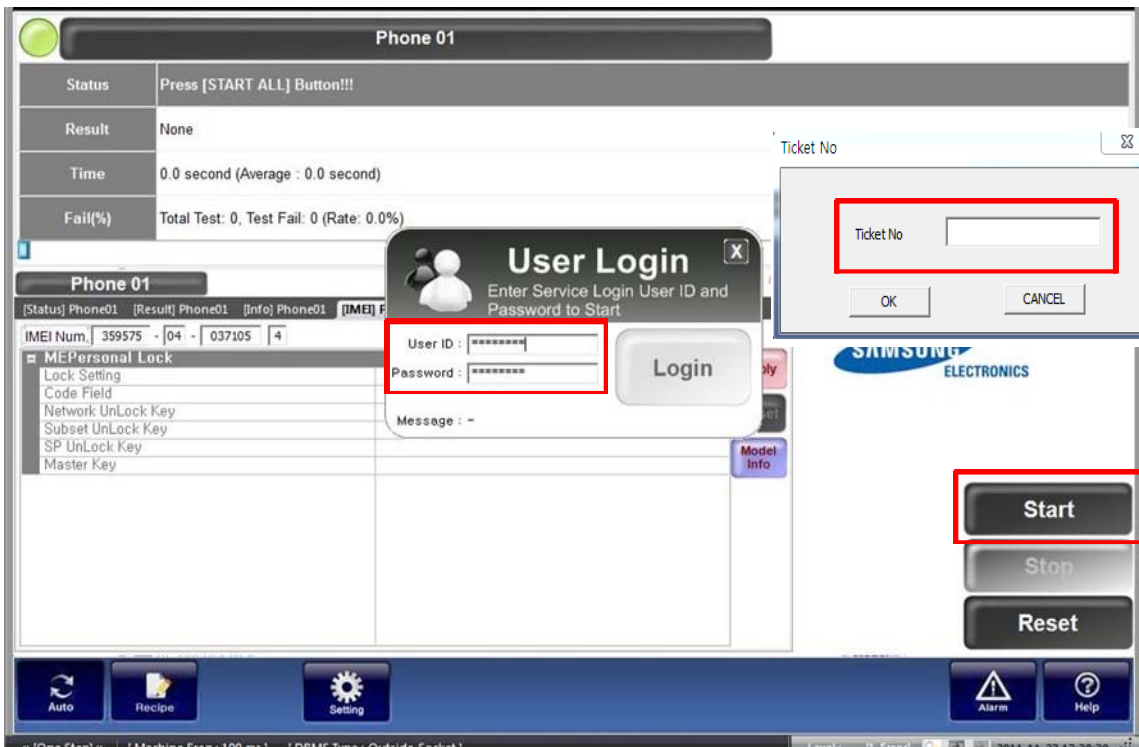
15. Input IMEI Number and click Apply



The DASEUL - SM-G925V software interface displays various phone information and testing options. The 'Phone 01' section is highlighted with a red box, showing 'IMEI Num(Slave)' and 'IMEI Num(3rd)' fields. The 'Apply' button is also highlighted with a red box. The interface includes a top bar with 'Model: SM-G925V', 'SKU: SM-G925VZWVZW', 'DB Serv: RMES', and 'Cell Type: Block Cell'. The bottom bar contains icons for 'Auto', 'Recipe', 'Setting', 'Test Item', 'HW Setting', 'Setting(Etc.)', 'Etc Func', and 'Data'. The status bar at the bottom shows 'Machine Freq: 100 ms', 'DBMS Type: Inside-Oracle', and 'Level: 1-Error'.

6. Level 1 Repair

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

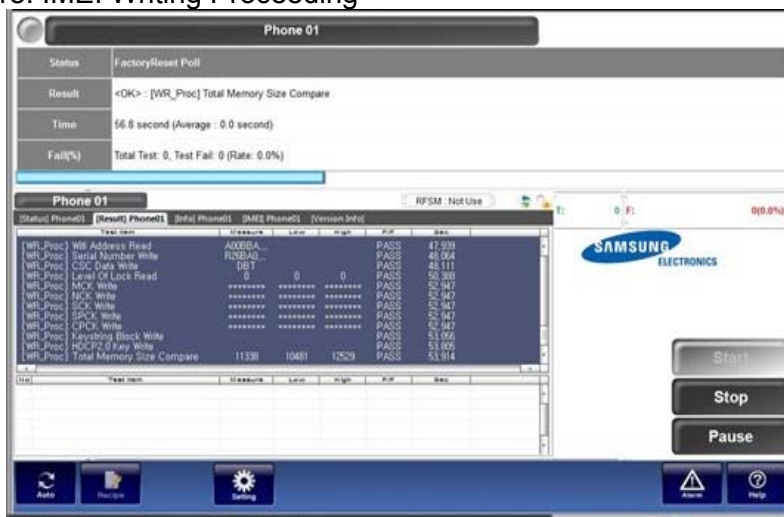


17. Connect the phone to Anyway JIG

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

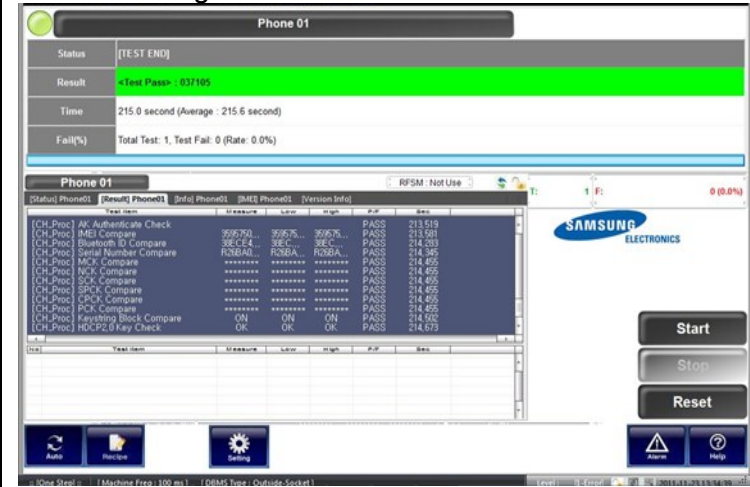
After connecting the phone, the phone will be booted automatically.

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_v4.0.0.exe
 - DASEUL_CAL_ALL_Runtime_3.1.185.0_r00351.CAB
 - Model File (SM-G930F_OPEN_CALIBRATION_Ver_3.1.185.6.CAB)

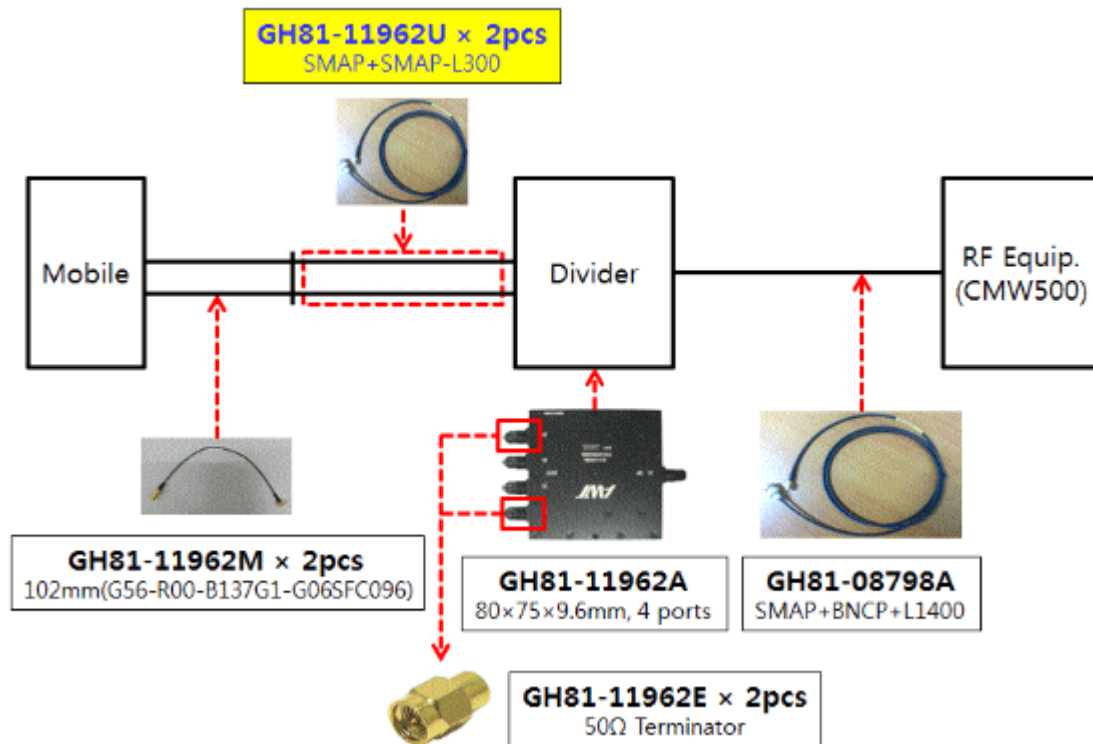
※ It is required to use the latest program.

- Mobile Phone
- E3632A Power Supply
- JIG BOX (GH81-11888A)
- UART Serial Cable
- Table of test cables
- R&S CMW500
- GPIB Cable (2ea)
- Adapter (GH81-11888K)

RF Cable (Manual)	GH81-11962M	GH81-11962U	
	1.2T, 102mm 	1.2T, 102mm 	
4 Port Divider	GH81-11962A	GH81-08798A	GH81-11962E
	Divider 	Divider Cable 	50Ω terminator 

6. Level 1 Repair

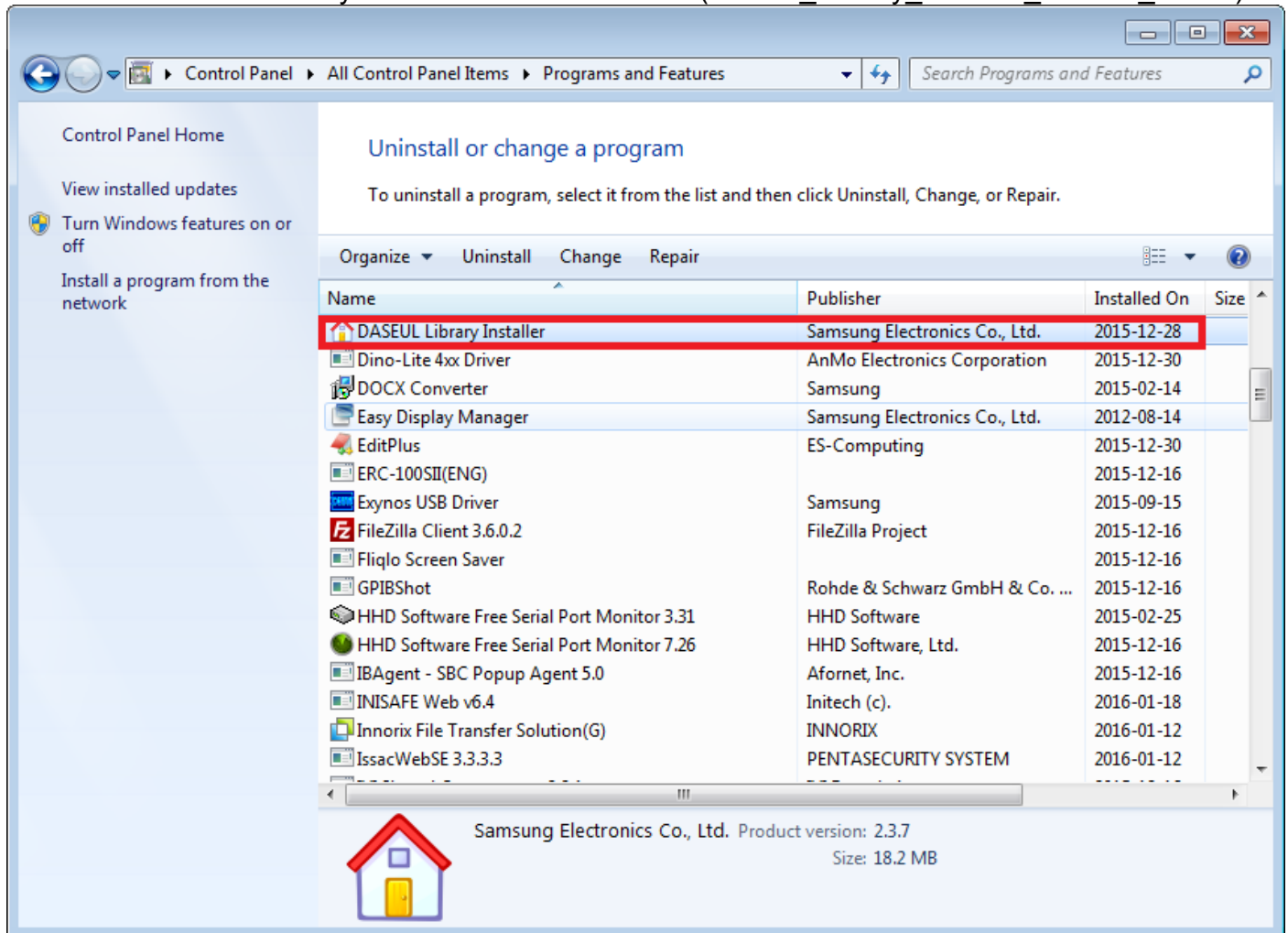
- SETTING



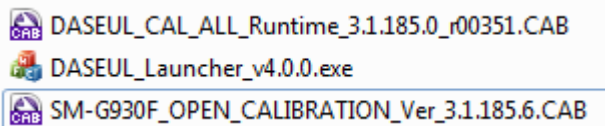
6. Level 1 Repair

6-3-2. RF Calibration Program

1. Uninstall DASEL Library and install a new version. (Daseul_Library_Installer_151217_v2.3.7)

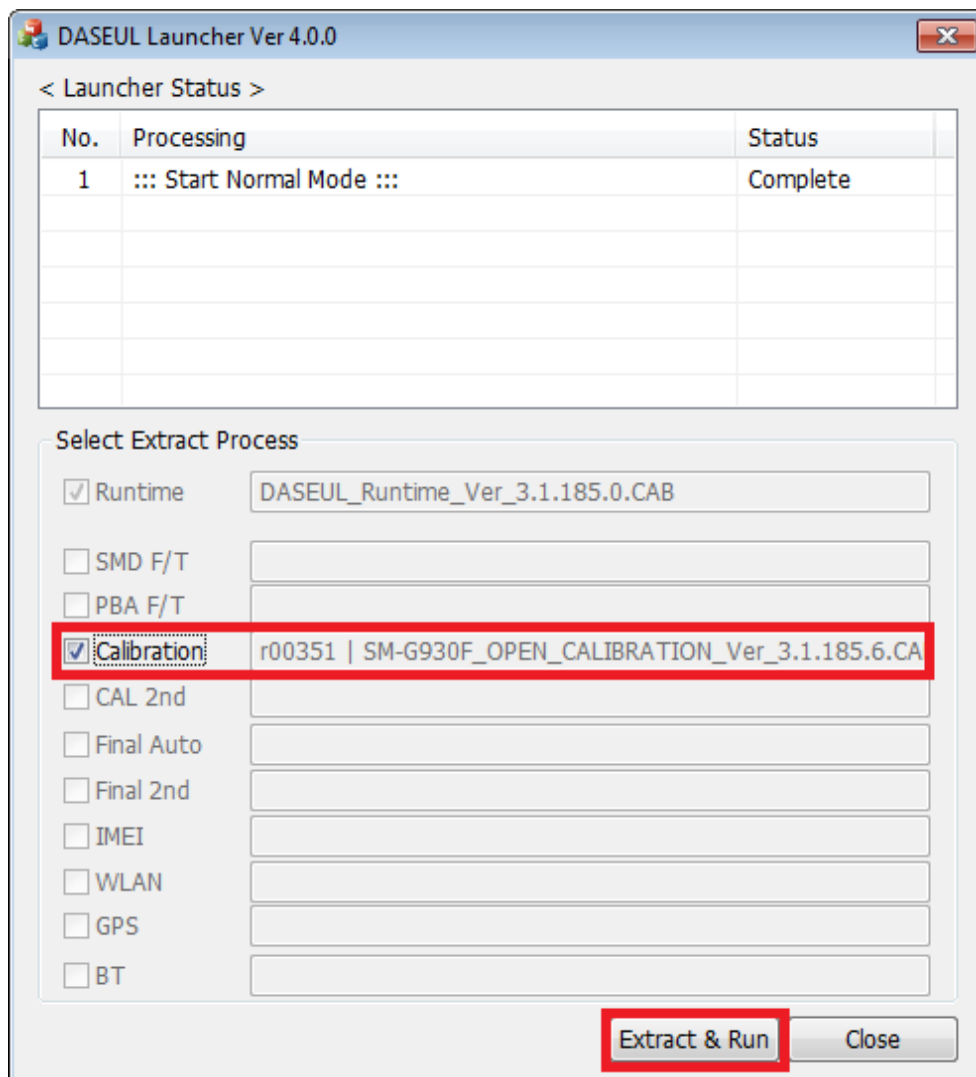


2. Run the RF Calibration Program Launcher, 'DASEUL_Launcher_v4.0.0.exe'.



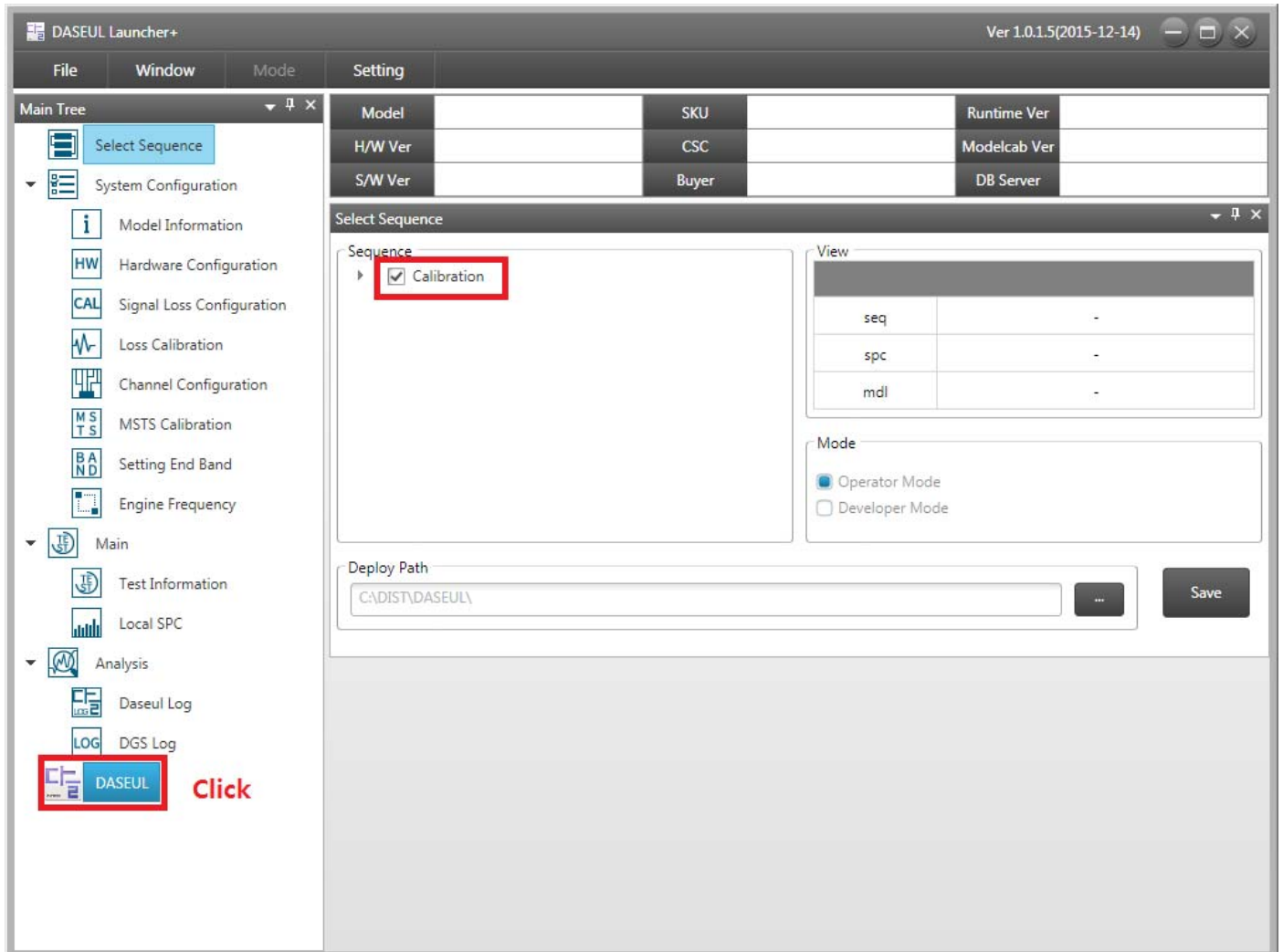
6. Level 1 Repair

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



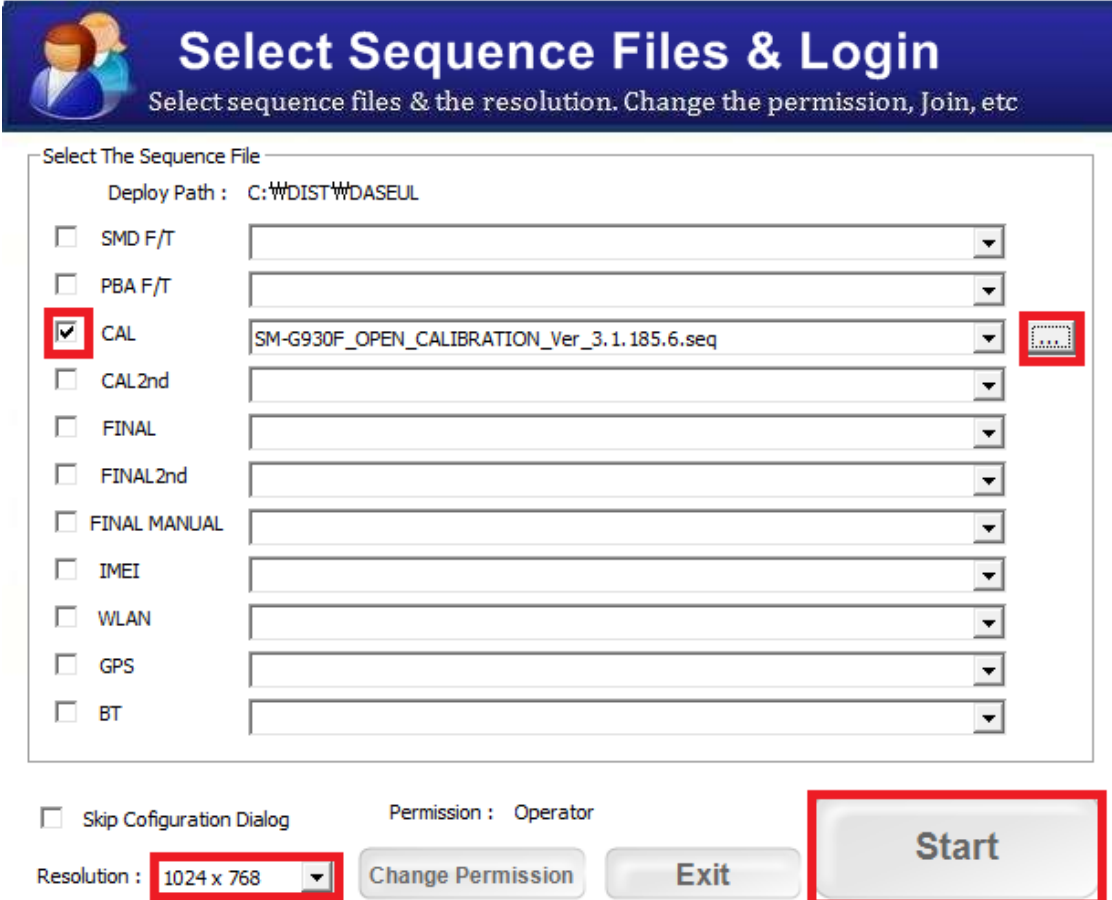
6. Level 1 Repair

4. Check the 'Calibration' option and Click **DASEUL** Icon on your left side.



6. Level 1 Repair

5. Change the Resolution setting and select a [sequence file](#) and [Click Start](#) Button.



Select Sequence Files & Login
Select sequence files & the resolution. Change the permission, Join, etc

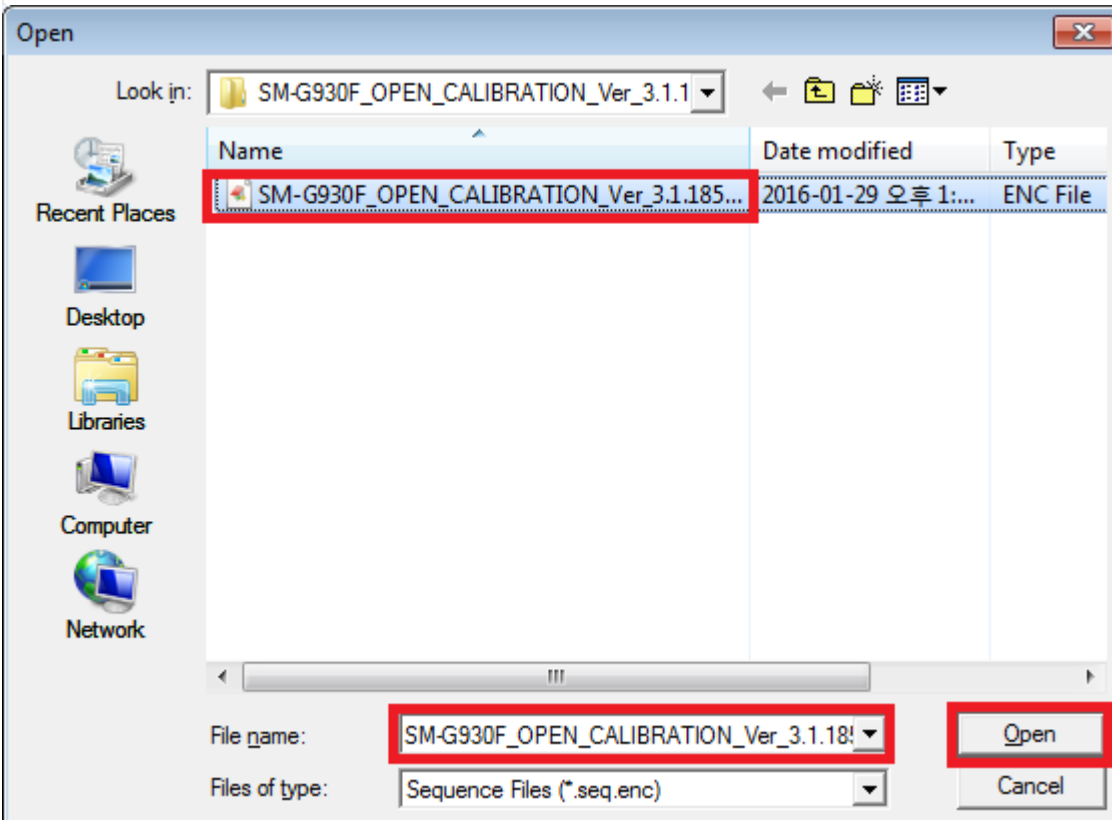
Select The Sequence File

Deploy Path : C:\WDIST\WDASEUL

☐	SMD F/T		
☐	PBA F/T		
☒	CAL	SM-G930F_OPEN_CALIBRATION_Ver_3.1.185.6.seq	
☐	CAL2nd		
☐	FINAL		
☐	FINAL2nd		
☐	FINAL MANUAL		
☐	IMEI		
☐	WLAN		
☐	GPS		
☐	BT		

☐ Skip Configuration Dialog Permission : Operator

Resolution : 1024 x 768 [Change Permission](#) [Exit](#) [Start](#)



Open

Look in: SM-G930F_OPEN_CALIBRATION_Ver_3.1.1

Name	Date modified	Type
SM-G930F_OPEN_CALIBRATION_Ver_3.1.185...	2016-01-29 오후 1:...	ENC File

File name: SM-G930F_OPEN_CALIBRATION_Ver_3.1.18! [Open](#)

Files of type: Sequence Files (*.seq.enc) [Cancel](#)

6. Level 1 Repair

6. Select Master Calibration Process and Change the Line Type to 'Block Cell' and disable 'Smart Cloud Cell'.



Set System Configuration

Set System Configuration Dialog...

Test Process

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

Process Order

Test Condition

Calibration

Real CAL Cycle: on every

20 default CALs

Calibration Mode : FDT

CAL2nd Mode : FDT

Final

Supply RF Signal by Radiation

- Loss Cal ☒

Reset Loss Correction Count

Test Mode : Signaling

WLAN

Test Mode : WLAN

IMEI

Use RFSM ☐

Use Second PC ☐

Save ODS ☐

Merge Felica Cal ☐

OQC Reset ☐

IBI Reset ☐

OQC SKD USER D/L ☐

System Config.

Language Korean

Line Name LINE(temp)

Line Type Block Cell

☐ NP Cell ☐ Smart Cloud Cell

of Phone 1

Start Number of UI 1

Start Number of Jig 1

IP Address 10.253.38.99

SKD Mode ☐

MultiSharing(CMWS) ☐

Developer Mode ☐

Advanced Separating(ADS) ☐

Operation Condition

Operation Condition

RUN SeeLog

IMEI SVC&Repair Option

Model Information

Hardware Config

Signal Loss Config.

Loss Calibration

Channel Config.

MSTS Calibration

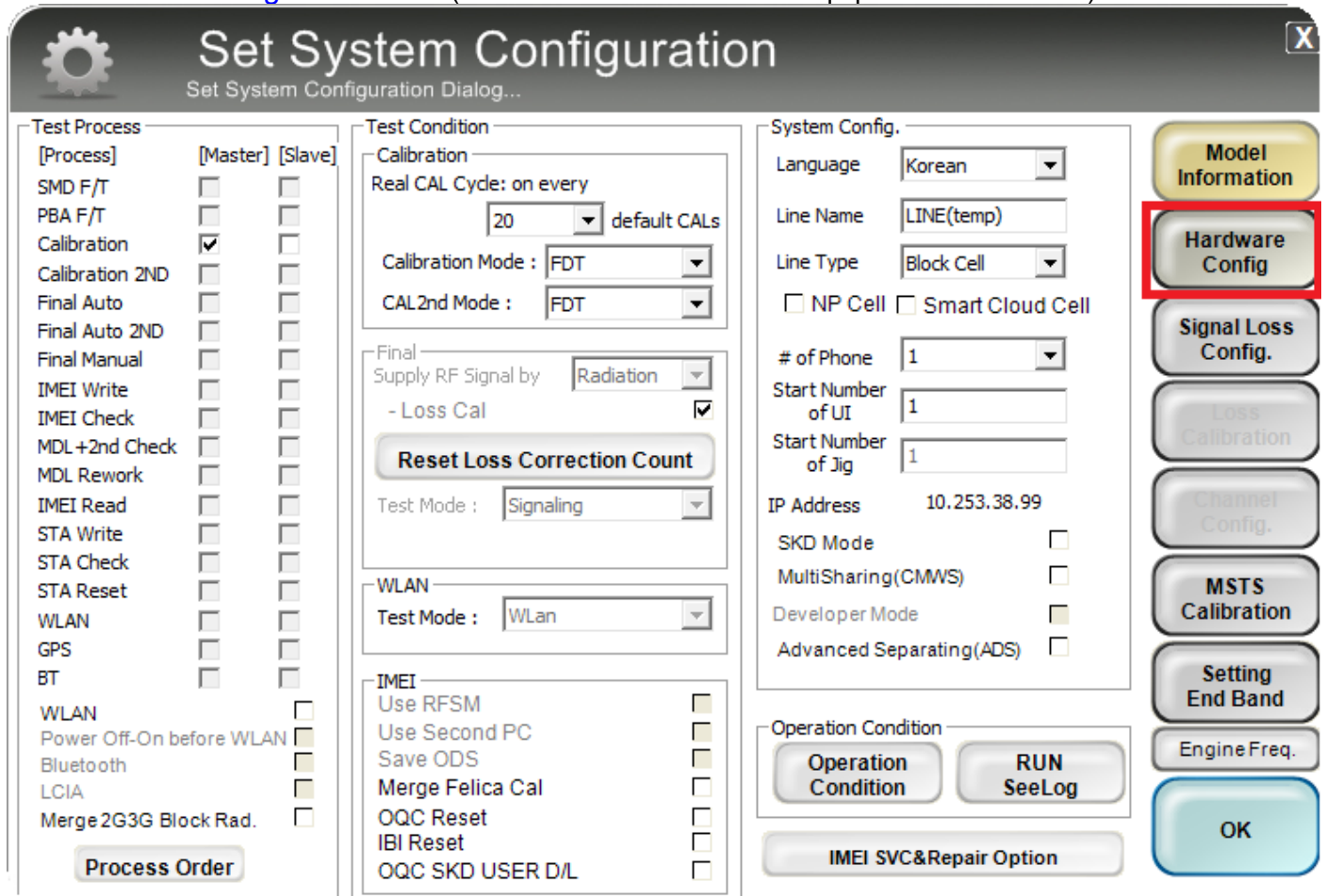
Setting End Band

Engine Freq.

OK

6. Level 1 Repair

7. 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)



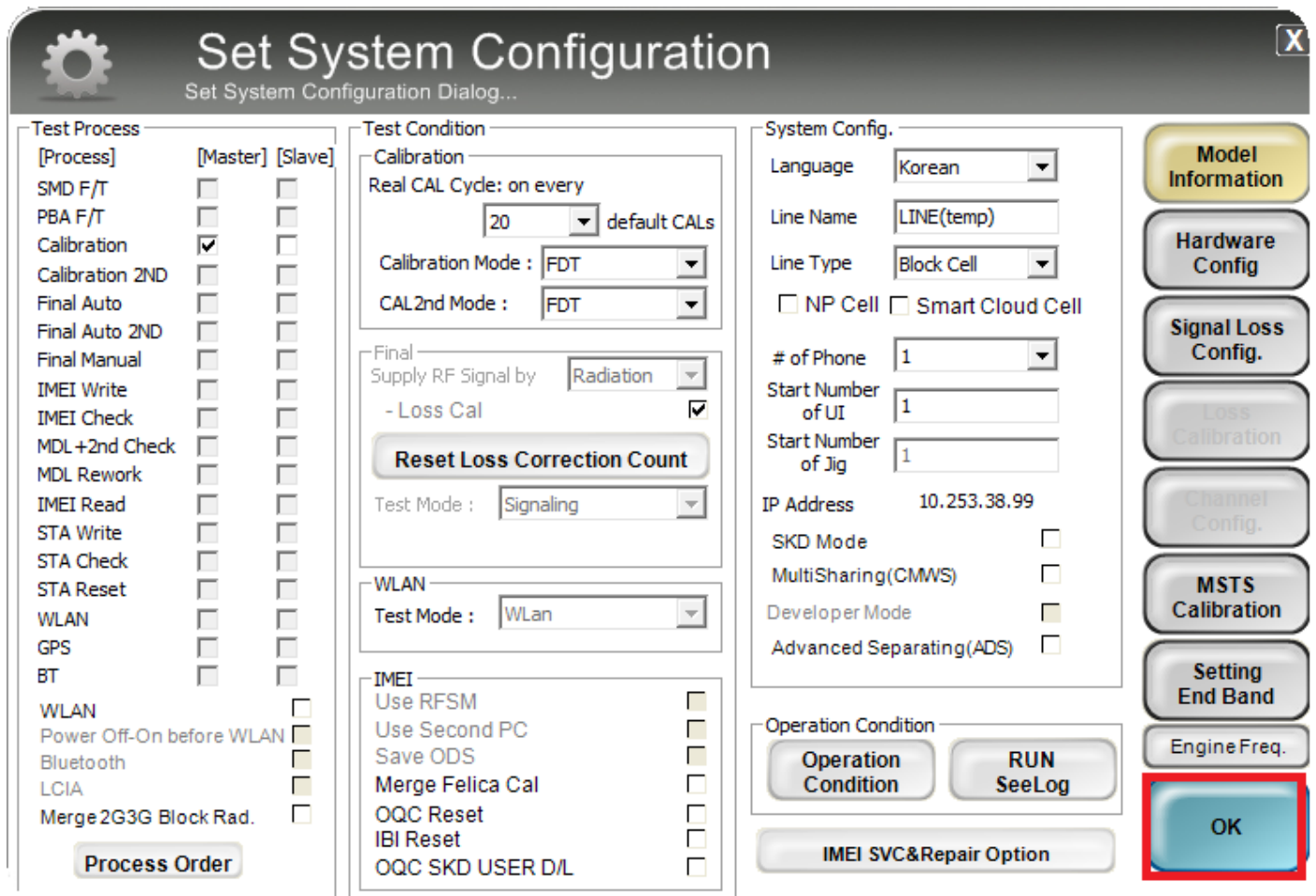
The image shows a 'Set System Configuration' dialog box with a title bar and a close button (X). The dialog is divided into several sections:

- Test Process:** A list of processes with checkboxes for [Master] and [Slave]. 'Calibration' is checked under [Master].
- Test Condition:**
 - Calibration:** 'Real CAL Cycle: on every' is set to 20, 'default CALs' is selected. 'Calibration Mode' is FDT, 'CAL2nd Mode' is FDT.
 - Final:** 'Supply RF Signal by' is Radiation, '- Loss Cal' is checked. A 'Reset Loss Correction Count' button is present. 'Test Mode' is Signaling.
 - WLAN:** 'Test Mode' is WLAN.
 - IMEI:** A list of options with checkboxes: Use RFSM, Use Second PC, Save ODS, Merge Felica Cal, OQC Reset, IBI Reset, OQC SKD USER D/L.
- System Config.:**
 - Language: Korean
 - Line Name: LINE(temp)
 - Line Type: Block Cell
 - ☐ NP Cell ☐ Smart Cloud Cell
 - # of Phone: 1
 - Start Number of UI: 1
 - Start Number of Jig: 1
 - IP Address: 10.253.38.99
 - SKD Mode: ☐
 - MultiSharing(CMWS): ☐
 - Developer Mode: ☐
 - Advanced Separating(ADS): ☐
- Operation Condition:** Buttons for 'Operation Condition', 'RUN SeeLog', and 'IMEI SVC&Repair Option'.

On the right side, there is a vertical stack of buttons: 'Model Information', 'Hardware Config' (highlighted with a red box), 'Signal Loss Config.', 'Loss Calibration', 'Channel Config.', 'MSTS Calibration', 'Setting End Band', 'Engine Freq.', and 'OK'.

6. Level 1 Repair

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



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]. 'Calibration' is checked under [Process].
- Test Condition:**
 - Calibration:** 'Real CAL Cycle: on every' is set to '20' (default CALs). 'Calibration Mode' and 'CAL2nd Mode' are both set to 'FDT'.
 - Final:** 'Supply RF Signal by' is set to 'Radiation'. '- Loss Cal' is checked. A 'Reset Loss Correction Count' button is present. 'Test Mode' is set to 'Signaling'.
 - WLAN:** 'Test Mode' is set to 'Wlan'.
 - IMEI:** A list of IMEI-related options with checkboxes: 'Use RFSM', 'Use Second PC', 'Save ODS', 'Merge Felica Cal', 'OQC Reset', 'IBI Reset', and 'OQC SKD USER D/L'.
- System Config.:**
 - 'Language' is set to 'Korean'.
 - 'Line Name' is 'LINE(temp)' and 'Line Type' is 'Block Cell'.
 - 'NP Cell' and 'Smart Cloud Cell' are unchecked.
 - '# of Phone' is '1', 'Start Number of UI' is '1', and 'Start Number of Jig' is '1'.
 - 'IP Address' is '10.253.38.99'.
 - 'SKD Mode', 'MultiSharing(CMWS)', 'Developer Mode', and 'Advanced Separating(ADS)' are unchecked.
- Operation Condition:** 'Operation Condition' and 'RUN SeeLog' buttons are present. Below them is an 'IMEI SVC&Repair Option' button.
- 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' (highlighted with a red border).

6. Level 1 Repair

9. Use Start Button to Calibrate

DASEUL - SM-G930F

Model	SM-G930F	H/W Ver	G930F	SKU	xx	DB Serv	HOME(GUMI)	Cell Type	Block Cell
		S/W Ver	None	CSC	1	Buyer	XX	PC NO.	NONE
Process	Calibration(M)								
PGM Ver	DASEUL_v3.1.185.0 / Calibration(r00351)								

Phone 01 Path Loss Measure Mode

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

U/N: -

Phone 01

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

Time	No.	Item	Status
19:32:18	01	RTCRead	RTC Verification Init Complete
19:32:18	01	BatteryVoltageC...	BatteryVoltageCheck Init Complete
19:32:18	01	SetTestNV	SetTestNV Init Complete
19:32:18	01	MD5.Enable	MD5.Enable Init Complete
19:32:18	01	FactoryTestLog...	FactoryTestLog_Disable Init Complete
19:32:18	01	BackUp	BackUp Init Complete
19:32:18	01	SleepCurrent	Sleep Current Init Complete
19:32:18	01	EndCalibration	EndCalibration Init
19:32:18	01	UInitTestStep	UInitTestStep MSTs Init Start
19:32:19	01	UInitTestStep	JIG Open IOBus
19:32:20	01	UInitTestStep	Set JIG Solution
19:32:20	01	UInitTestStep	Get Reference Current
19:32:20	01	Instrument	RefCurrent[01] = -0.29876[mA]
19:32:26	01	UInitTestStep	Reference Current = -0.3
19:32:26	01	UInitTestStep	Get MSTs License
19:32:26	01	Instrument	MSTs License Info
19:32:27	01	UInitTestStep	Get MSTs Reset
19:32:29	01	UInitTestStep	Initial Step End. TEST READY!
19:32:29	01	UInitTestStep	Press [START ALL] Button!!!

SAMSUNG ELECTRONICS

Start
Stop
Reset

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

:: [One Step] :: [Machine Freq : 100 ms] [DBMS Type : Inside-Oracle] Level : [01-Error] 2016-02-02 19:32:30

6. Level 1 Repair

7-1. Speaker Calibration

7-1-1 Notice

- It is necessary to calibrate the speaker for all cases of replacing the speakers.

7-1-2 You need :

- Mobile device
- Laptop or Note PC
- Anyway Jig
- UART Serial Cable
- IF Test Cable (Different by models)

7-1-3 Lay-out



7-1-4 How to Calibrate Speaker

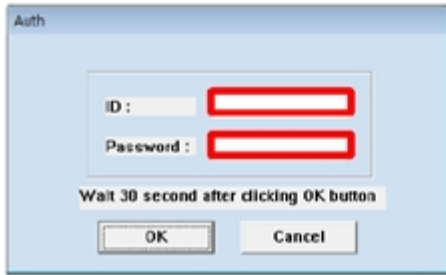


① Run 'Samsung(PSC)_SW_Capture_V008.exe'.

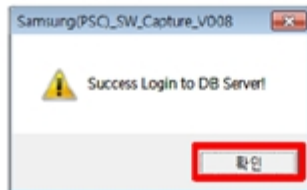


② Check 'SPK' item in the box.

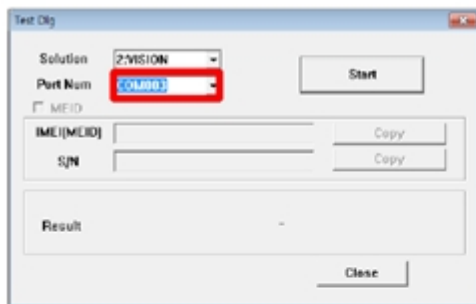
6. Level 1 Repair



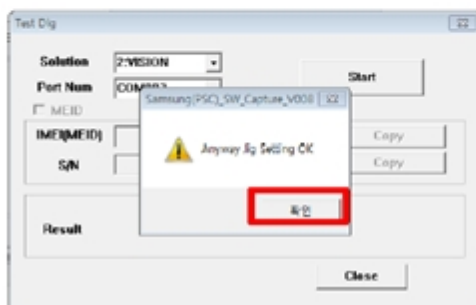
③ Input GSPN ID and Password, then press 'OK'.



④ Confirm Login to DB Server to press '확인'.



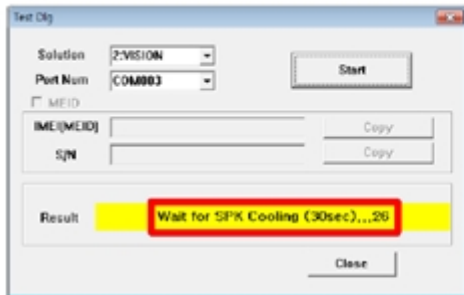
⑤ Set Port Number and press 'Start'.



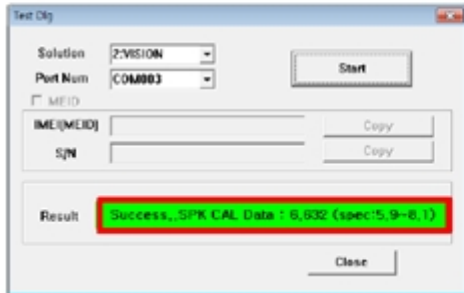
⑥ Confirm the Anyway Jig Setting to press '확인'.

⑦ Connect Mobile device to IF Test cable,
then power on to press power key.
※ Phone should be powered off before test.

6. Level 1 Repair



- ⑦ Speaker Calibration will start within 30 seconds after Booting complete.
※ LCD must be turned on in order to test properly.



- ⑧ Confirm whether the Speaker Calibration is done successfully.

6. Level 1 Repair

7-2. Battery Accumulated Usage Initialization

7-2-1 Notice

- It is necessary to initialize the battery accumulated usage for all cases of replacing the batteries.

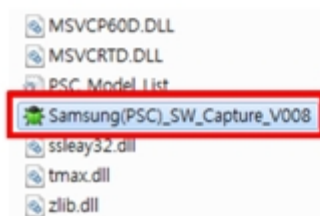
7-2-2 You need :

- Mobile device
- Laptop or Note PC
- Anyway Jig
- UART Serial Cable
- IF Test Cable (Different by models)

7-2-3 Lay-out



7-2-4 How to Initialize Battery Accumulated Usage



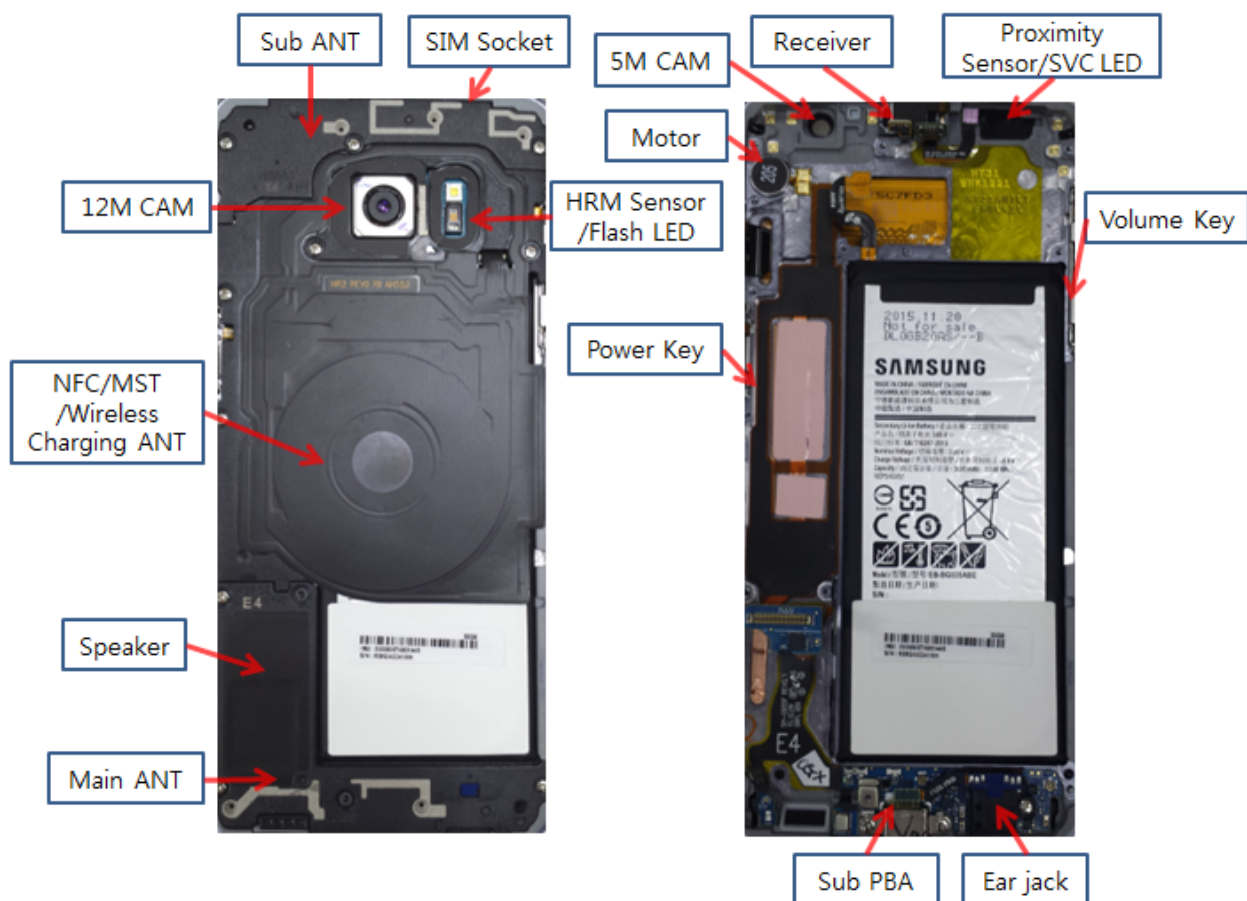
① Run 'Samsung(PSC)_SW_Capture_V008.exe'.



② Check 'Battery' item in the box.

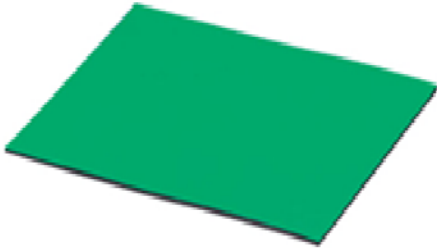
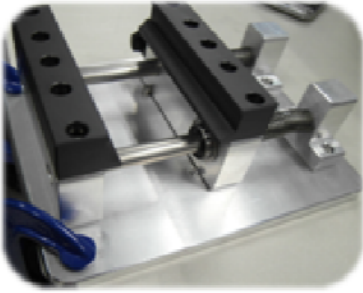
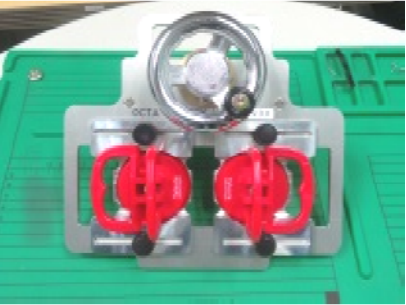
7. Level 2 Repair

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 discription & part code	Image	Remarks
A/S TAPE-BACK_GLASS GH81-13702A		For all requir cases
A/S TAPE-BACK_GLASS_ISLAND GH81-13701A		
A/S-TAPE MAIN WINDOW GH81-13703A		For front part requir cases
Conductive GASKET-TAPE OCTA CU GH02-12271A		
A/S-OCTA_COVER PANEL GH81-13705A		

7. Level 2 Repair

TAPE DOUBLE FACE-BATT HOLE GH02-12145A		
ASSY BRACKET-HOME KEY FLANGE GH98-39118A		
TAPE DOUBLE FACE-HOME KEY BASE GH02-12170A		
A/S-SUB PBA_DOUBLE TAPE ARRAY GH81-13747A		

7. Level 2 Repair

7-4. Disassembly

1

- 1) Put the device in the chamber for 5 minutes under 60°C.
- 2) Detach the Back Glass.



2

- Unscrew 12 Point and disassemble SIM Tray from device



※ Caution

- 1) Be care of scratch

※ Caution

- 1) Be care of scratch

3

- Disassemble Upper Rear.
(Use disassemble hole left side of Rear to detach it)



4

- And then Disassemble mid-Rear on the downward.



※ Caution

- 1) Be care of Rear damage

※ Caution

- 1) Be care of Rear and connector damage

7. Level 2 Repair

5

Finally Disassemble Rear of bottom side.
(Use disassemble hole left side of Rear to detach it)



6

Detach 2 coaxial cables, Battery connect and the other connectors.
(6 Point, except for Front Cam connector)



※ Caution

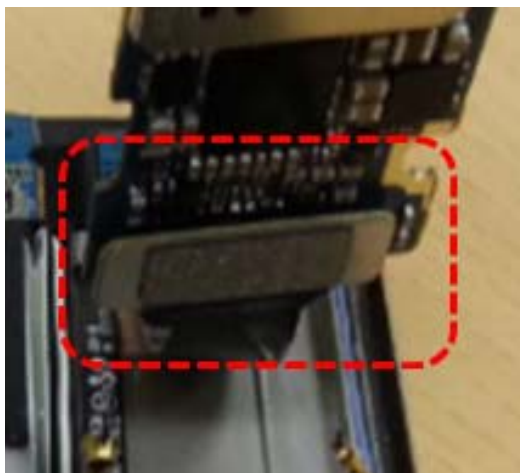
1) Be care of Rear and connector damage

※ Caution

1) Be care of connector/cable damage

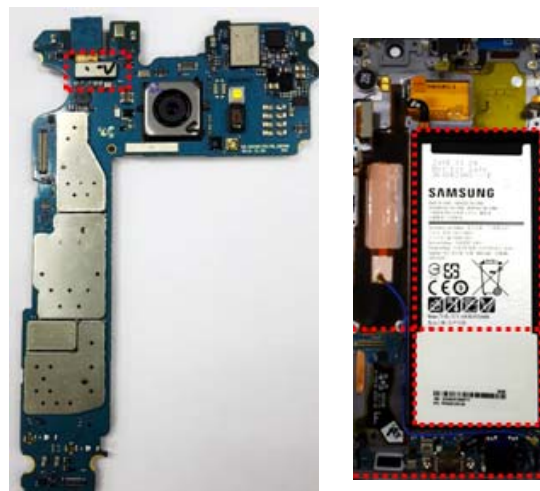
7

Detach main PBA from Front.



8

Detach other components.



※ Caution

1) Be care of FPCB damage
2) Be care of SUB PBA connector

※ Caution

1) Be care of several kinds of damage

7. Level 2 Repair

7-5. OCTA Disassembly

1

Put the device in the chamber for 5 minutes under 60°C.



2

1) Detach the OCTA using Vacuum JIG
2) Put Ethyl alcohol into the Rear case when the OCTA starts detaching



※ Caution

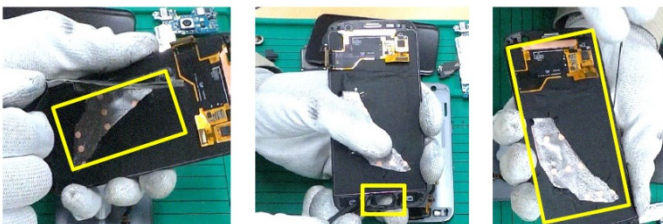
1) Be care of scratch

※ Caution

1) Watch out not to give any damage on the OCTA. Rotate slowly not to give stress to the window

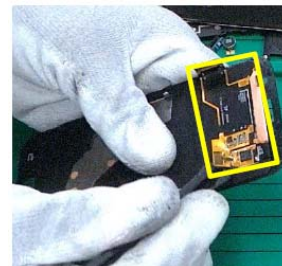
3

1) Remove adhesive tape on the center of OCTA backside.
2) Remove Home key dummy and adhesive tape on the bottom of OCTA.
3) Remove OCTA form tape on the OCTA outside.



4

1) Fold up OCTA FPCB in advance
2) Remove carefully Cu tape and sponge.



※ Caution

1) Remove tape residue carefully not to give any damage on the OCTA. Do not use any sharp tools, Do use only disassembly stick to remove.

※ Caution

1) Be careful of components & FPCB crack
2) Be careful of LDI galss crack during detaching CU tape&sponge.

7. Level 2 Repair

7-6. Aassembly

1 Attach and then Press Home key on Front.	2 Attach SUB PBA with 2 coaxial cables and Ear jack on Front.
※ Caution 1) Be care of Homekey FPCB connector 2) Be care of press power/time	※ Caution 1) Be care of coaxial cable damage
3 Screw 3 point in SUB PBA.	4 Attach components on Front. (RCV module, Sensor FPCB, Motor) and then Press RCV.
※ Caution 1) Be care of chip damage nearby screw point	※ Caution 1) Be care of FPCB damage and tilt 2) Be care of press power/time

7. Level 2 Repair

5

Attach Battery on Front.



6

Press Battery using JIG.



※ Caution

1) Be care of tilt

※ Caution

1) Be care of press power/time

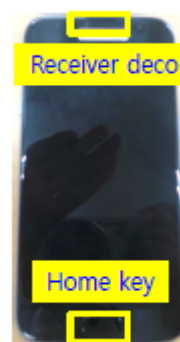
7

Attach OCTA on Front.



8

Press OCTA Assy.



※ Caution

1) Be care of FPCB and UB damage

※ Caution

1) Be care of Pressure Power/Time

7. Level 2 Repair

9

Attach PBA assy In Front Assy.
(PBA+ Front / Rear CAM)



10

Attach 2 coaxial cables on Main PBA and 6 connectors in PBA.



※ Caution

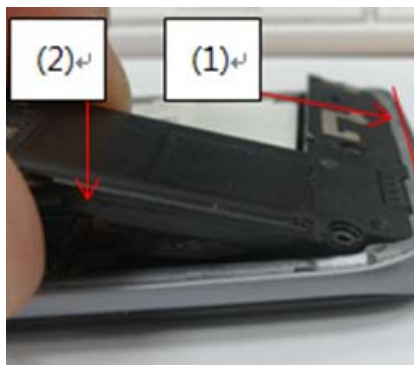
- 1) Be care of Push SUB PBA connector.
- 2) Be care of components FPCB.
- 3) Be care of CAM Lens from finger print.

※ Caution

- 1) Be care of connector damage.

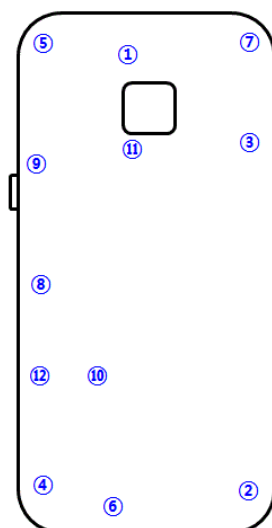
11

Assemble the REAR in sequence Lower → middle → Upper Rear.



12

Screw 12 Point and then insert SIM Tray on device.



※ Caution

- 1) Be care of scratch and REAR damage

※ Caution

- 1) Be care of scratch and REAR damage

7. Level 2 Repair

13

Attach Back Glass.



※ **Caution**

1) Be care of scratch and tilt.

14

Press Back Glass.



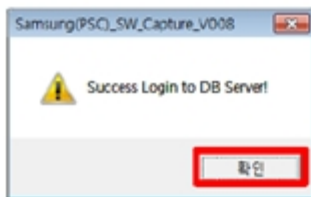
※ **Pressing spec**

- Back part repair : 1N for 1minute
- Front part repair : 1N for 2minutes

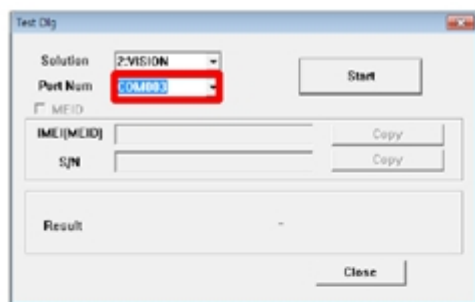
6. Level 1 Repair



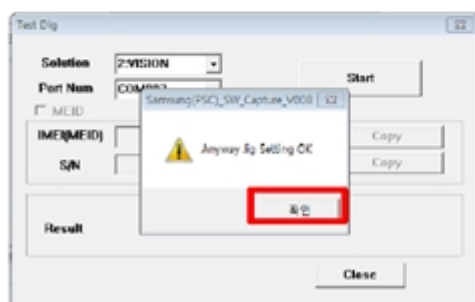
③ Input GSPN ID and Password, then press 'OK'.



④ Confirm Login to DB Server to press '확인'.



⑤ Set Port Number and press 'Start'.



⑥ Confirm the Anyway Jig Setting to press '확인'.

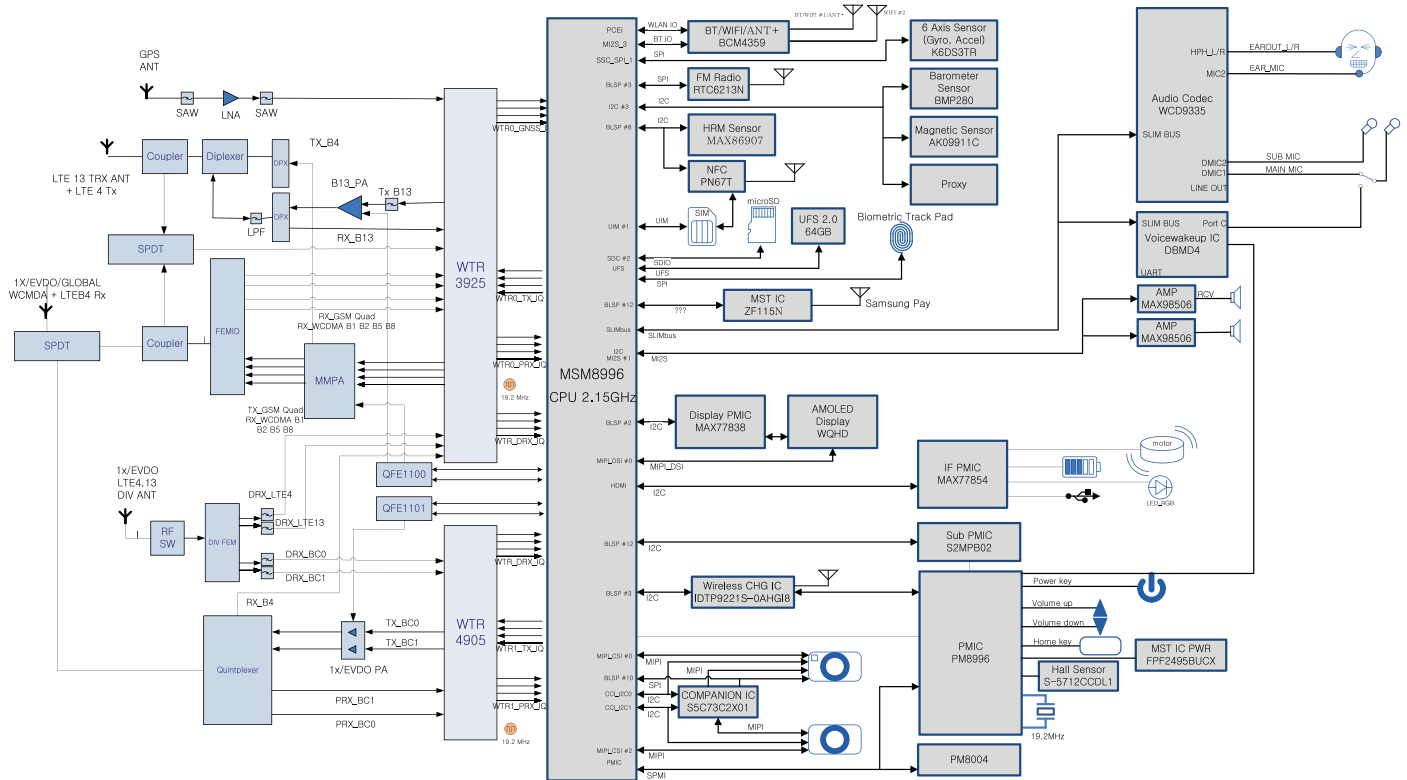
⑦ Connect Mobile device to IF Test cable,
then power on to press power key.
※ Phone should be powered off before test.



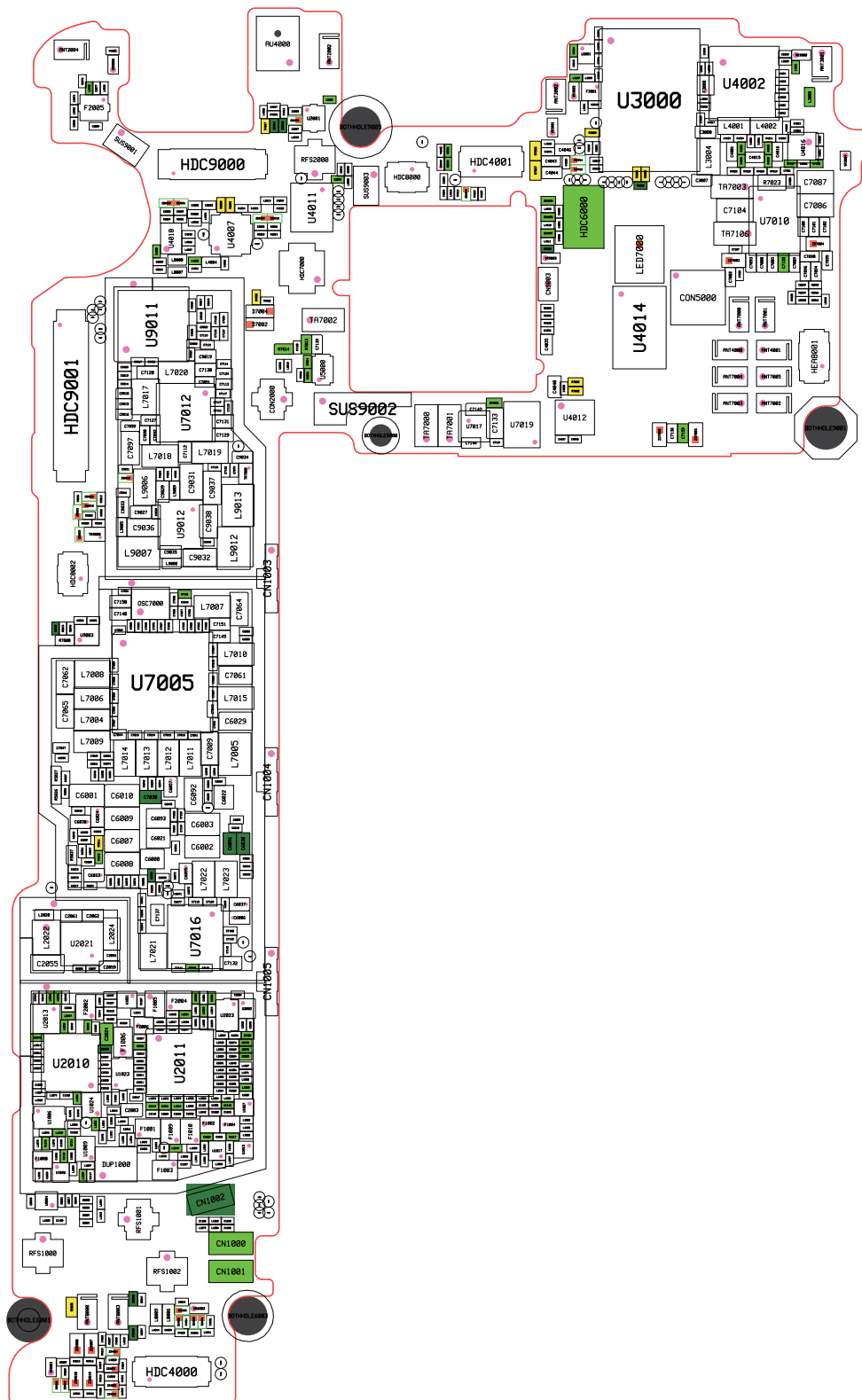
⑧ Battery Accumulated Usage Initialization will start
as soon as Booting complete.
※ LCD must be turned on in order to test properly.

8. Level 3 Repair

8-1. Block Diagram

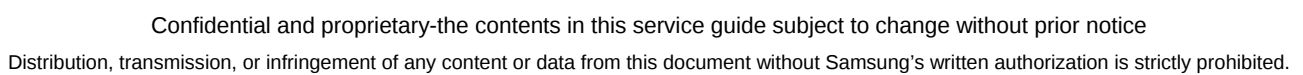


8-2-1. Top



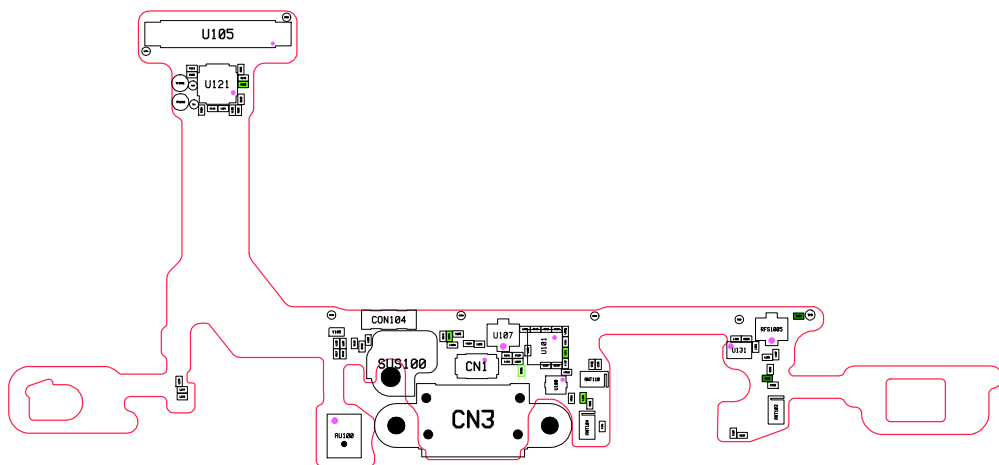
Distribution, transmission, or infringement of any content or data from this document without Samsung's written authorization is strictly prohibited.

8-2-2. Bottom

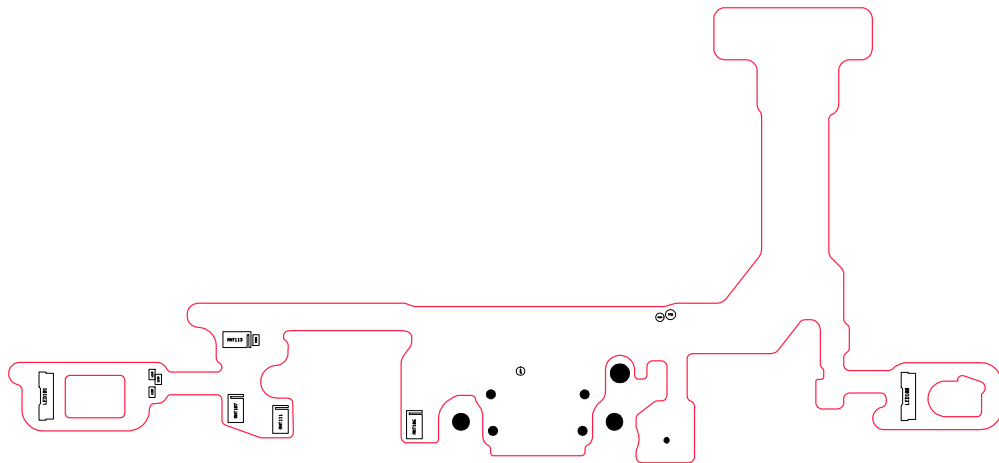


8. Level 3 Repair

8-2-3. Sub_TOP



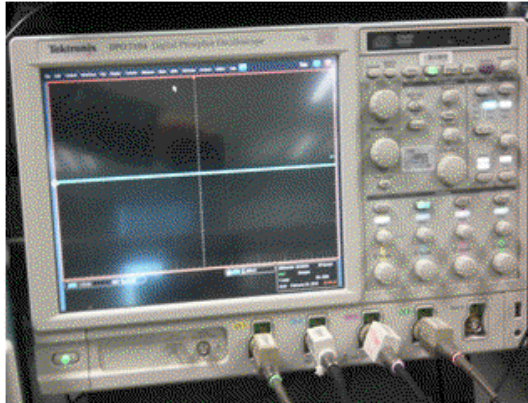
8-2-4. Sub_Bottom



8. Level 3 Repair

8-3. Flow Chart of Troubleshooting

Equipments



↑ Oscilloscope



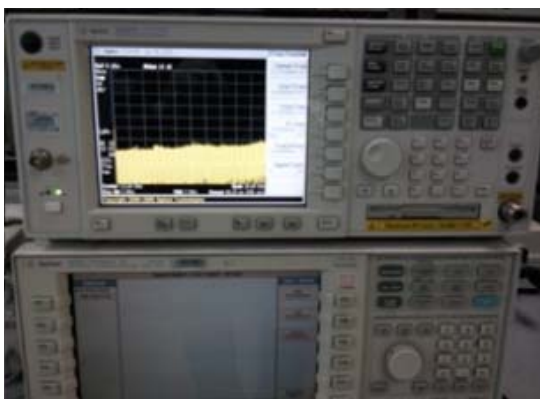
↑ Digital Multimeter



↑ Power Supply



↑ + driver, ESD Safe Tweezer



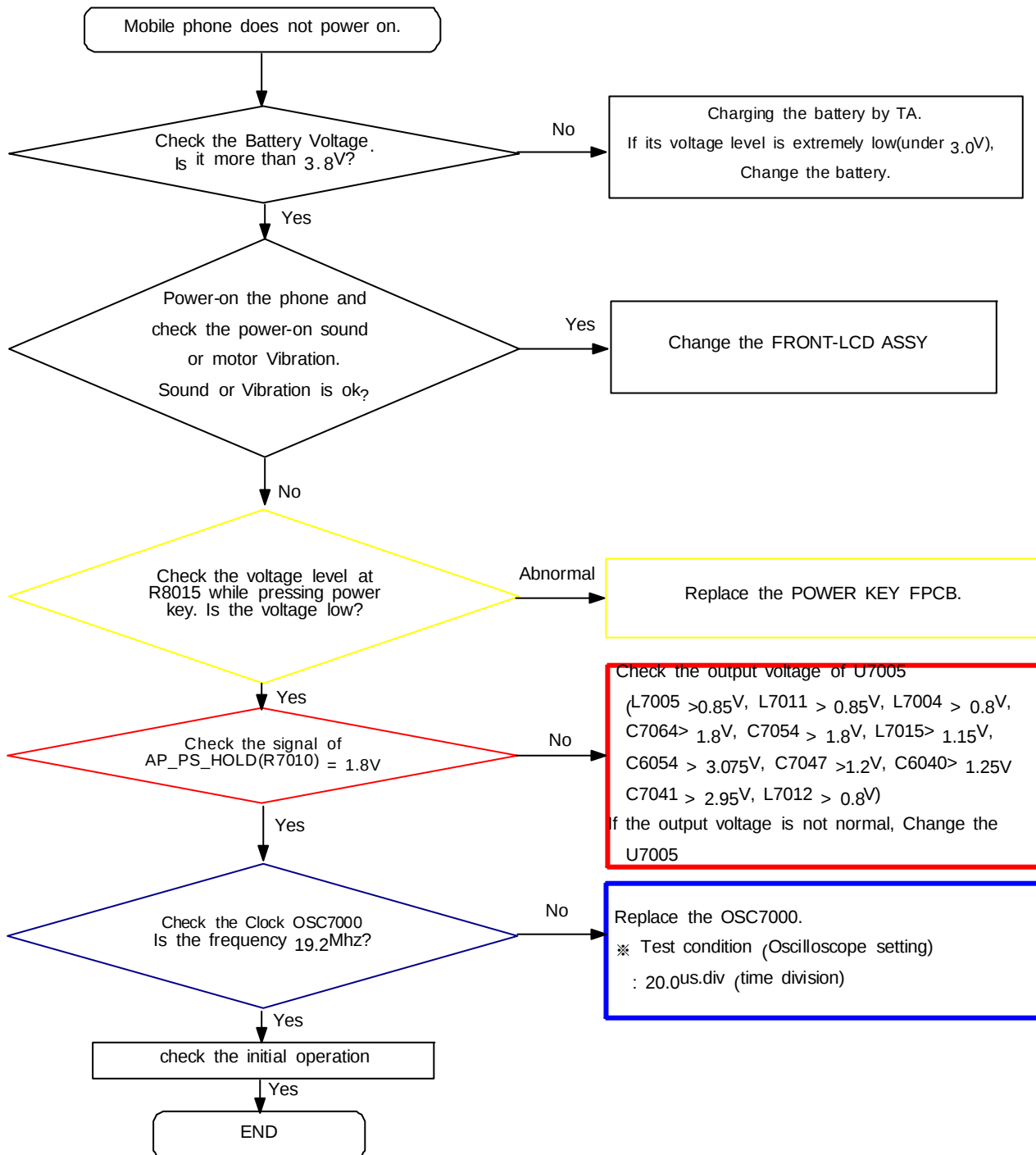
↑ 8960 & Spectrum Analyzer



↑ Soldering iron

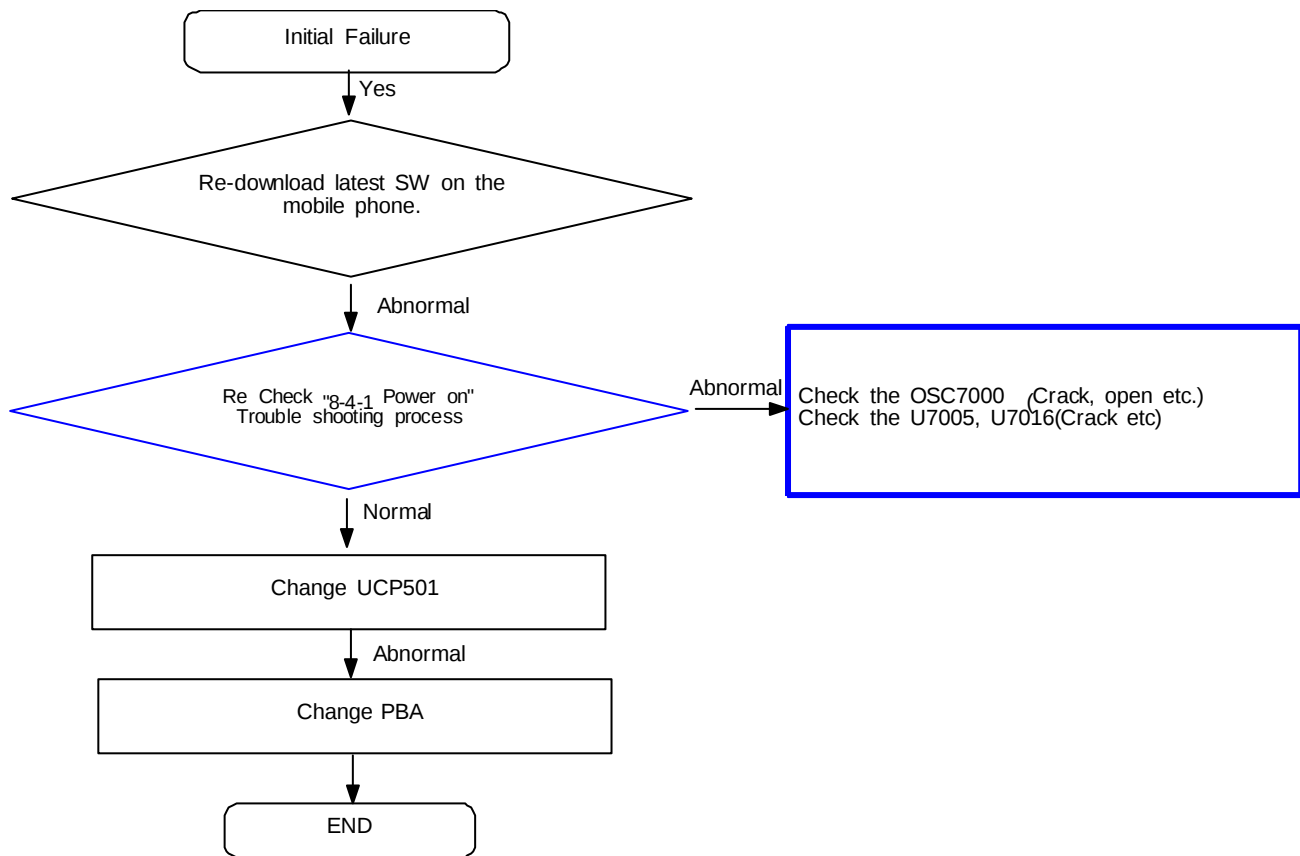
8. Level 3 Repair

8-3-1. Power On



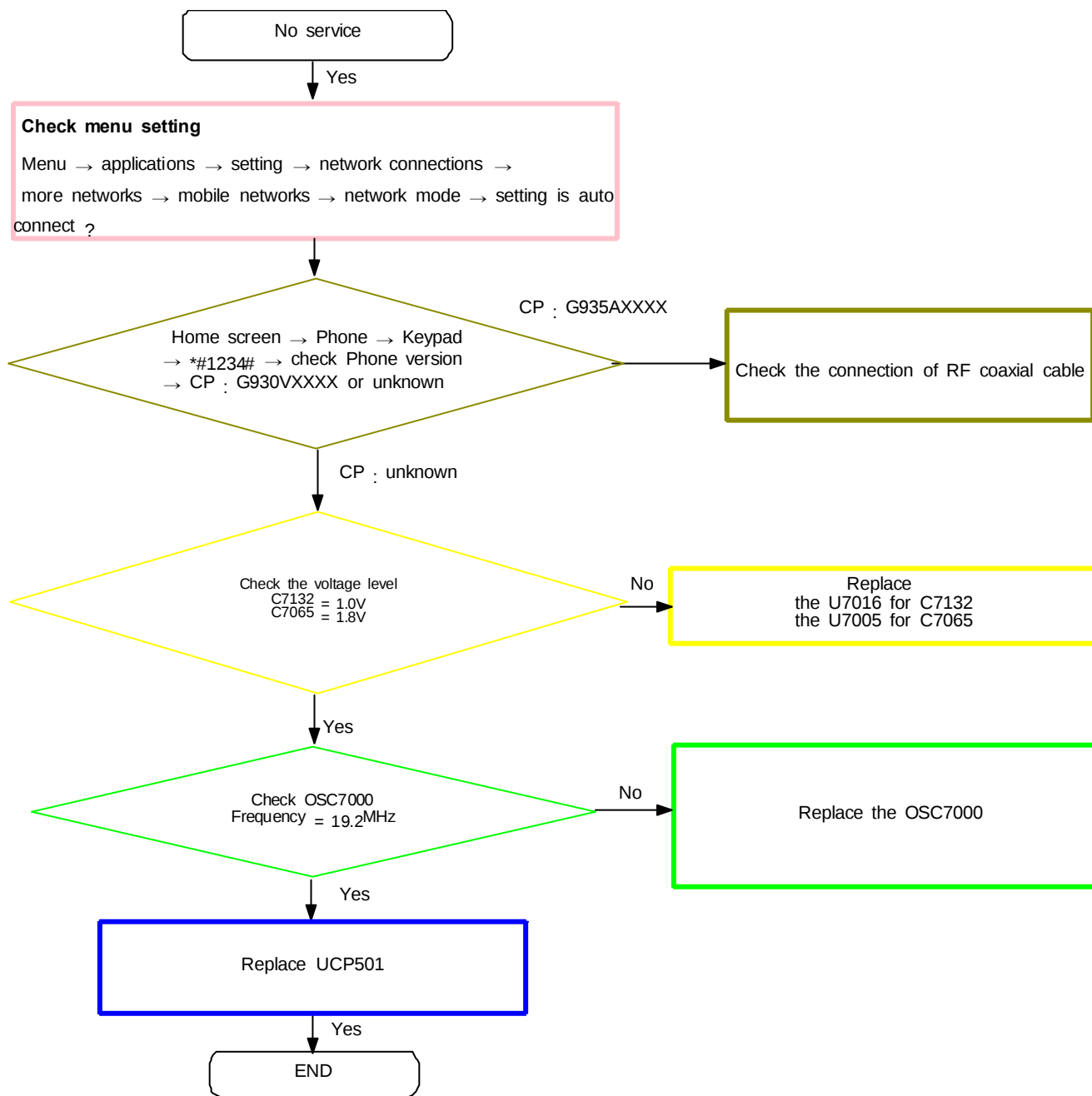
8. Level 3 Repair

8-3-2. Initial



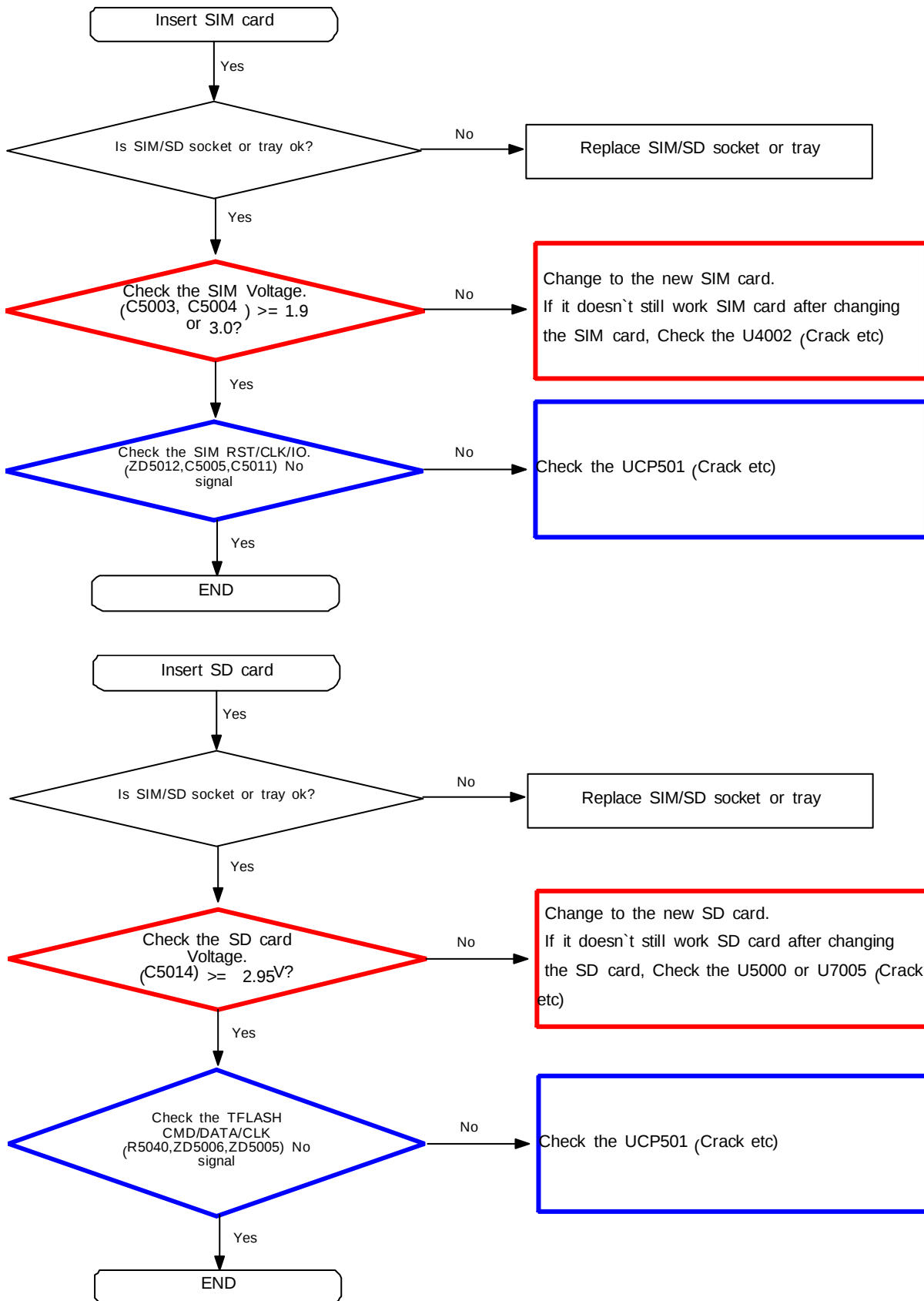
8. Level 3 Repair

8-3-3. No Service



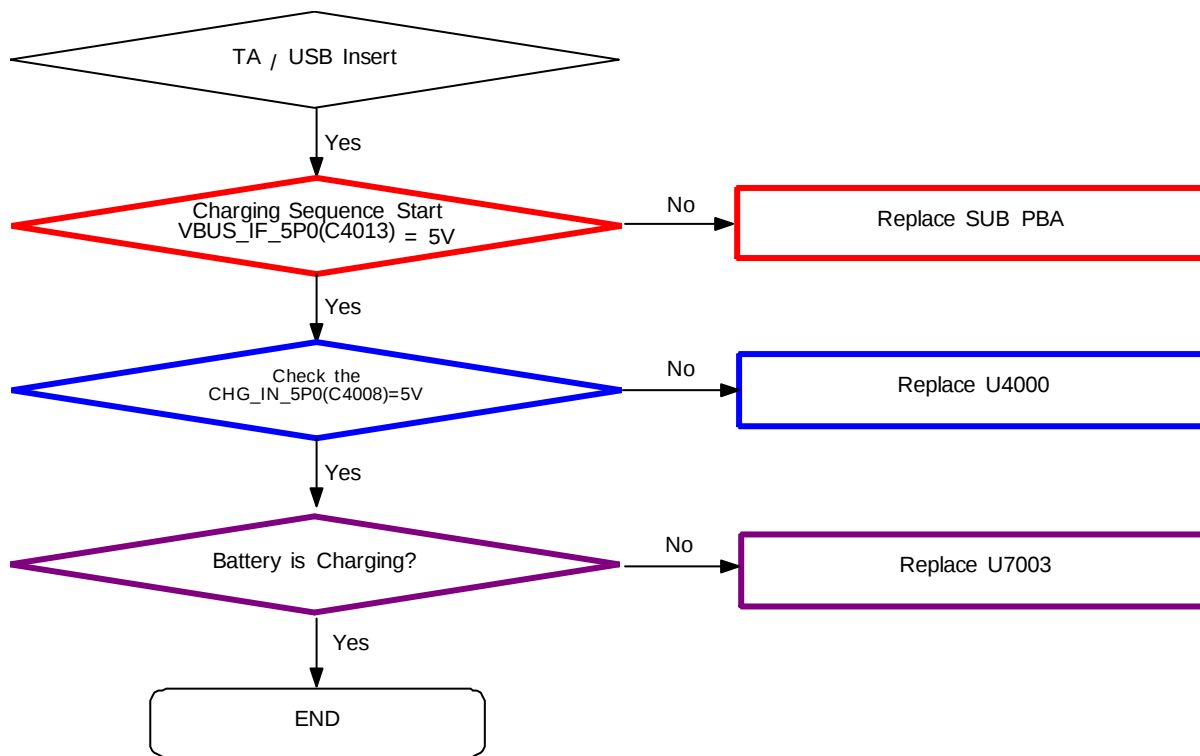
8. Level 3 Repair

8-3-4. SIM & T-Flash Part



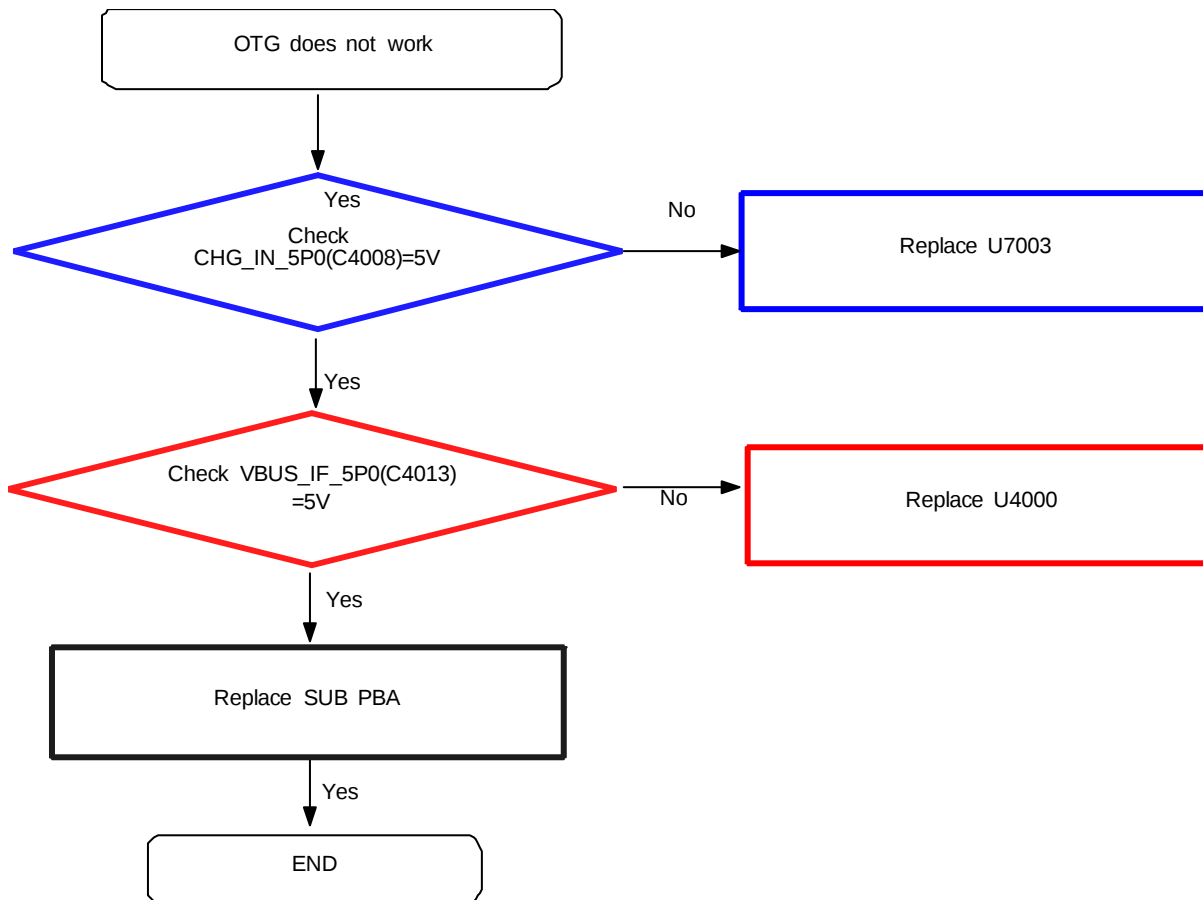
8. Level 3 Repair

8-3-5. Charging Part



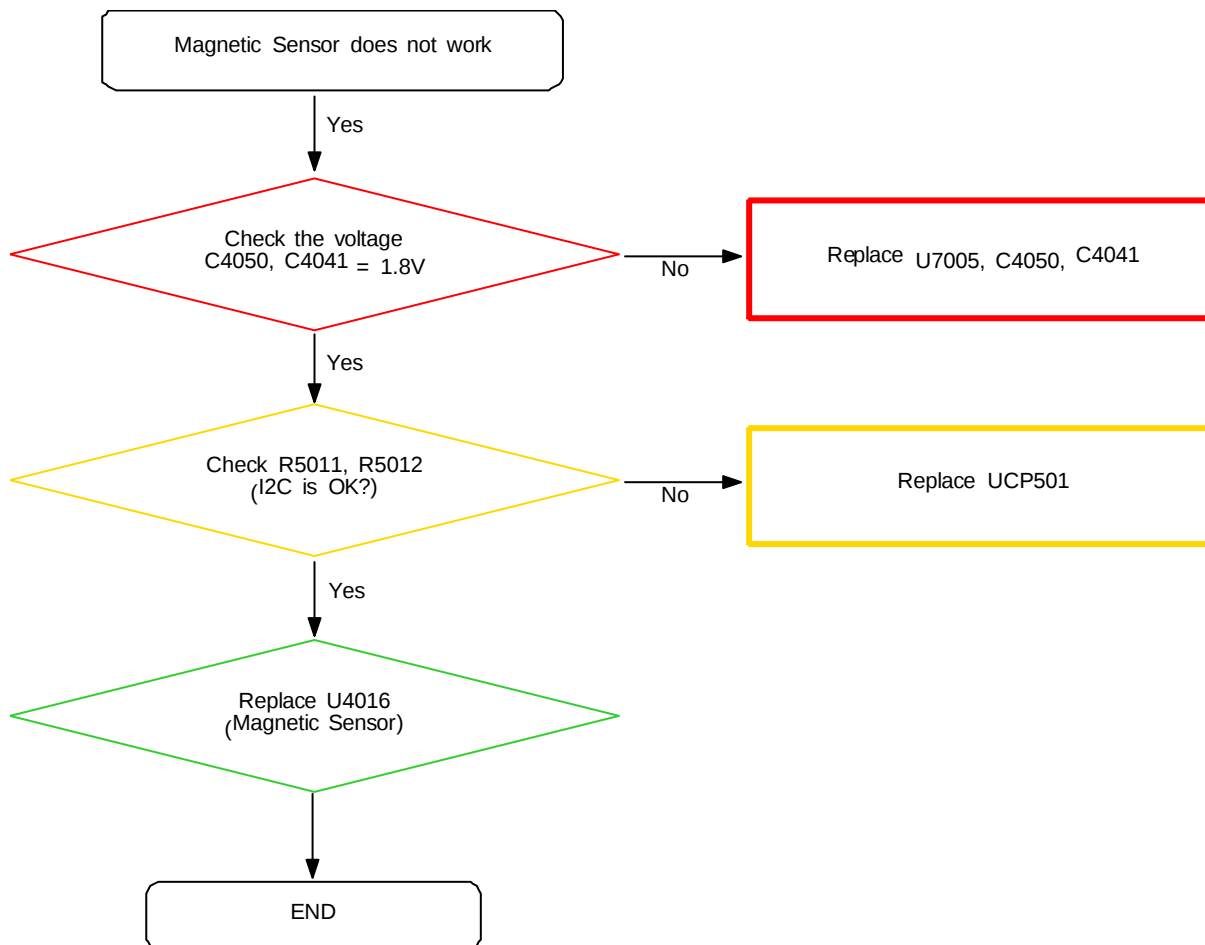
8. Level 3 Repair

8-3-6. OTG



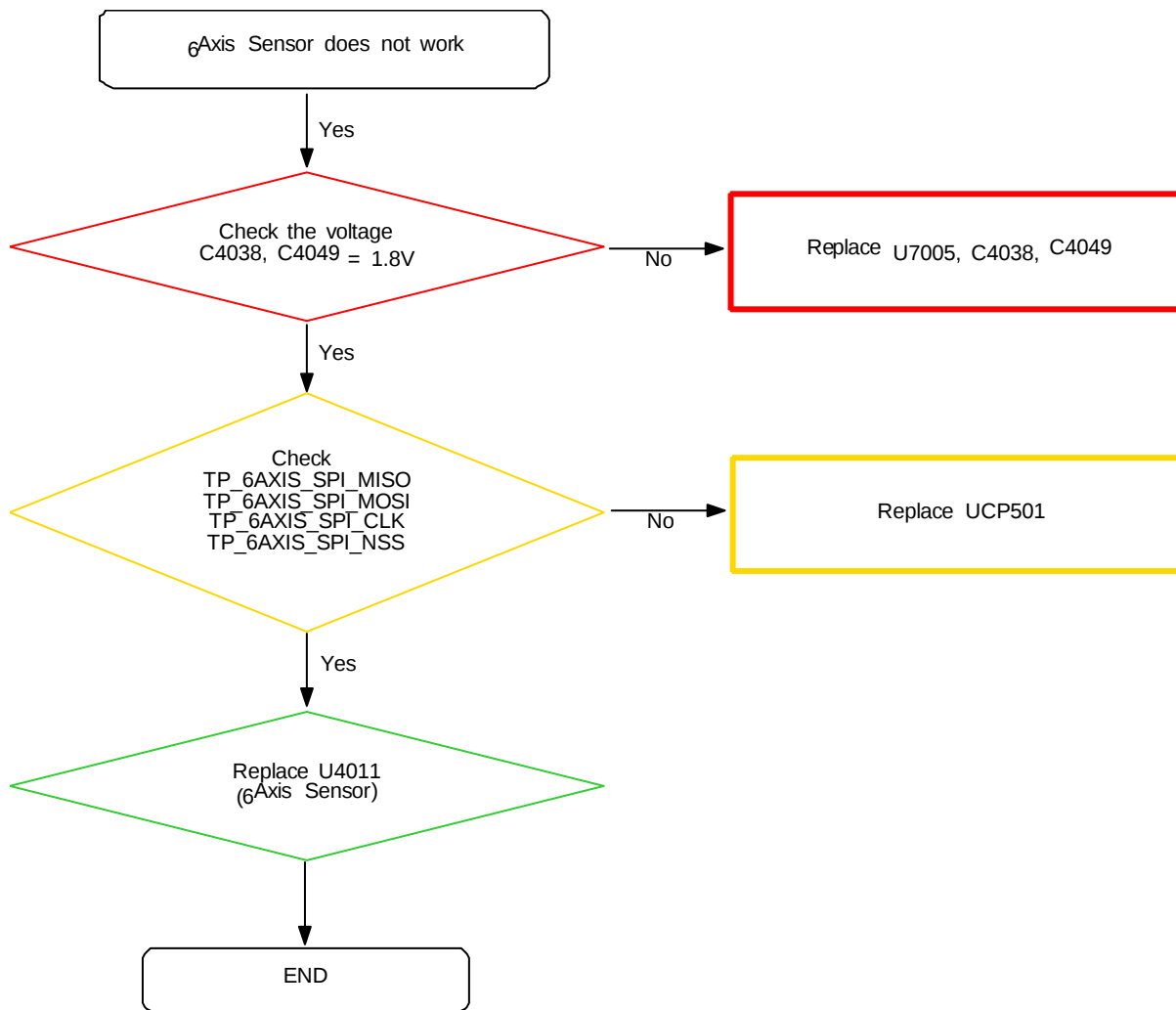
8. Level 3 Repair

8-3-7-1. Magnetic Sensor



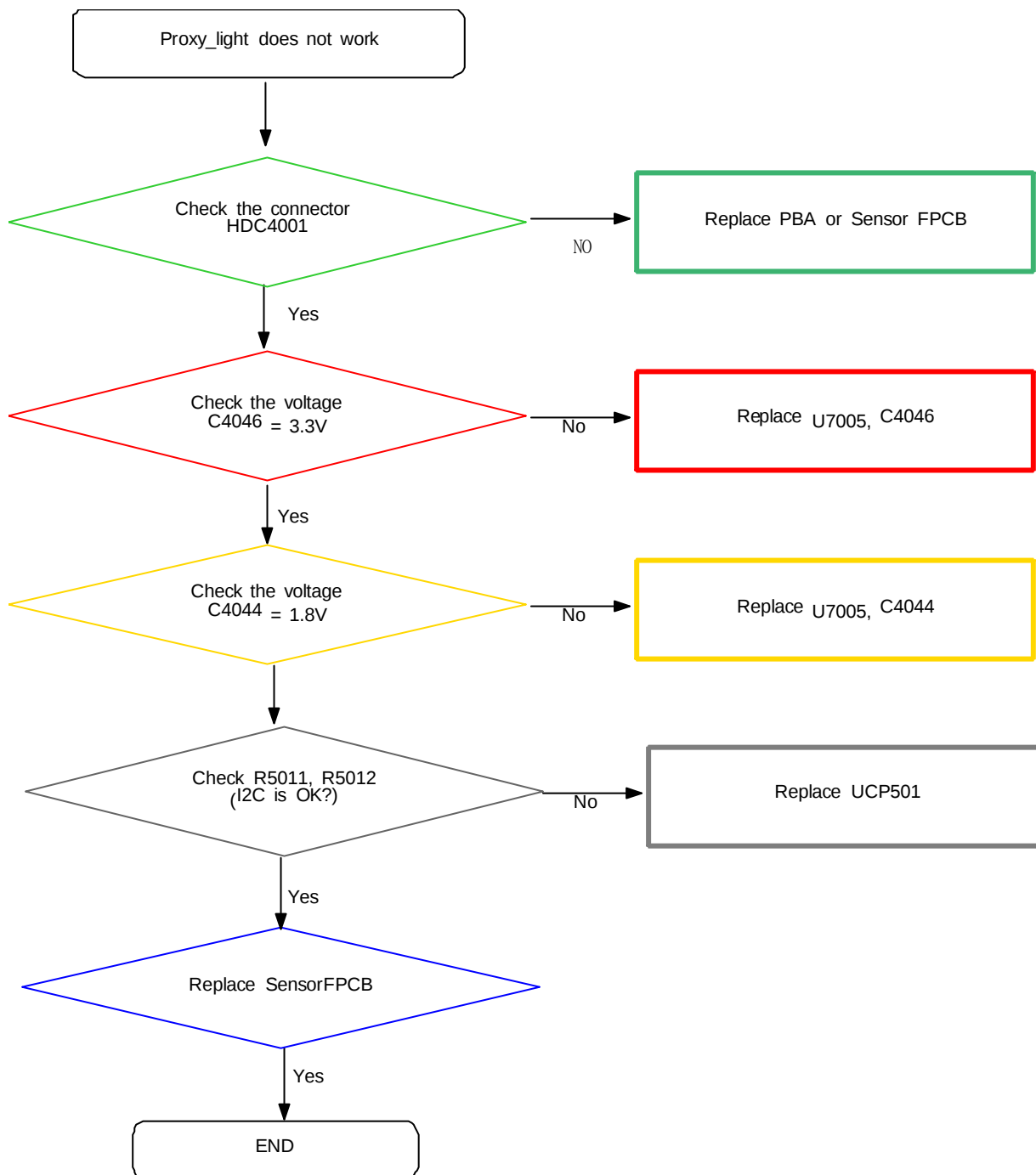
8. Level 3 Repair

8-3-7-2. 6Axis Sensor



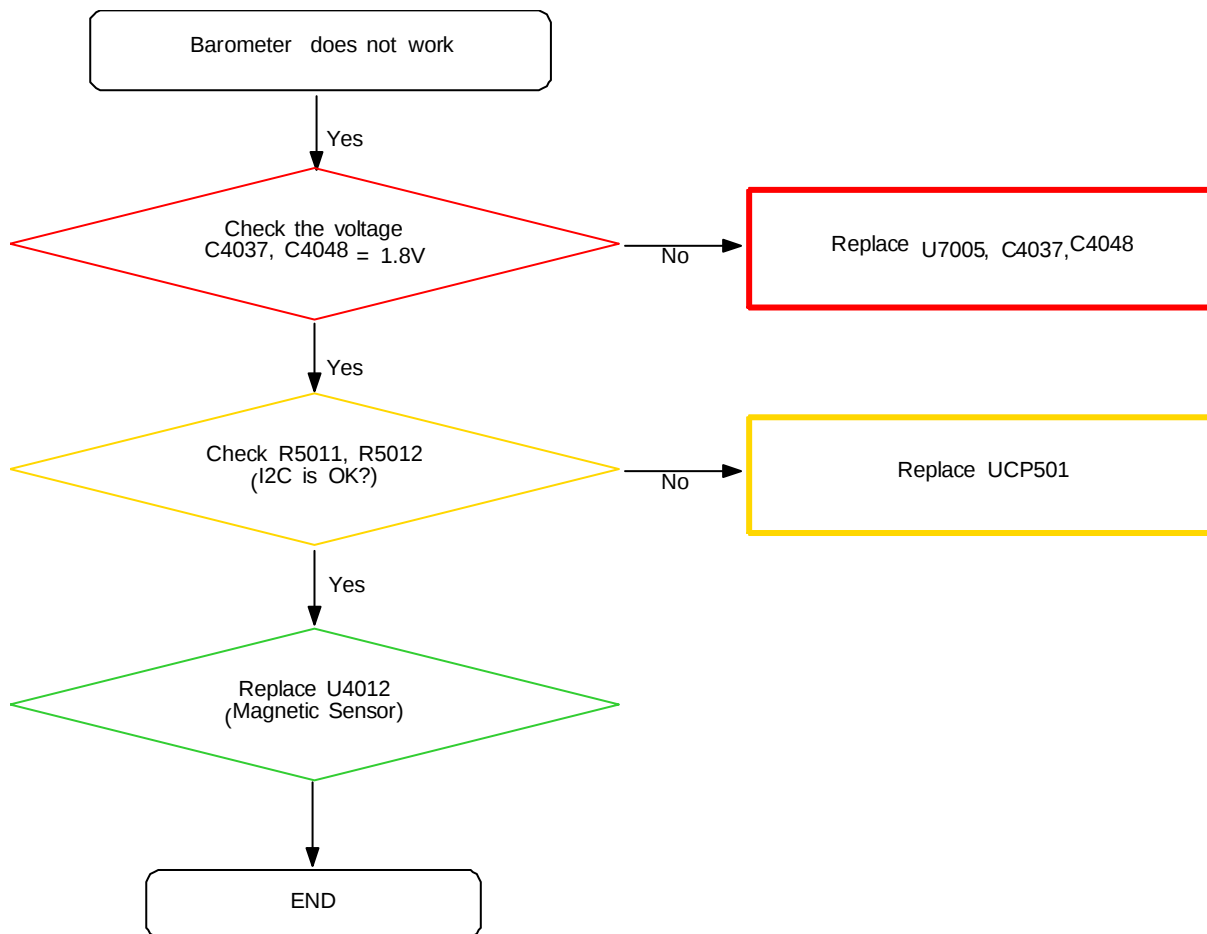
8. Level 3 Repair

8-3-7-3. Proxy_light Sensor



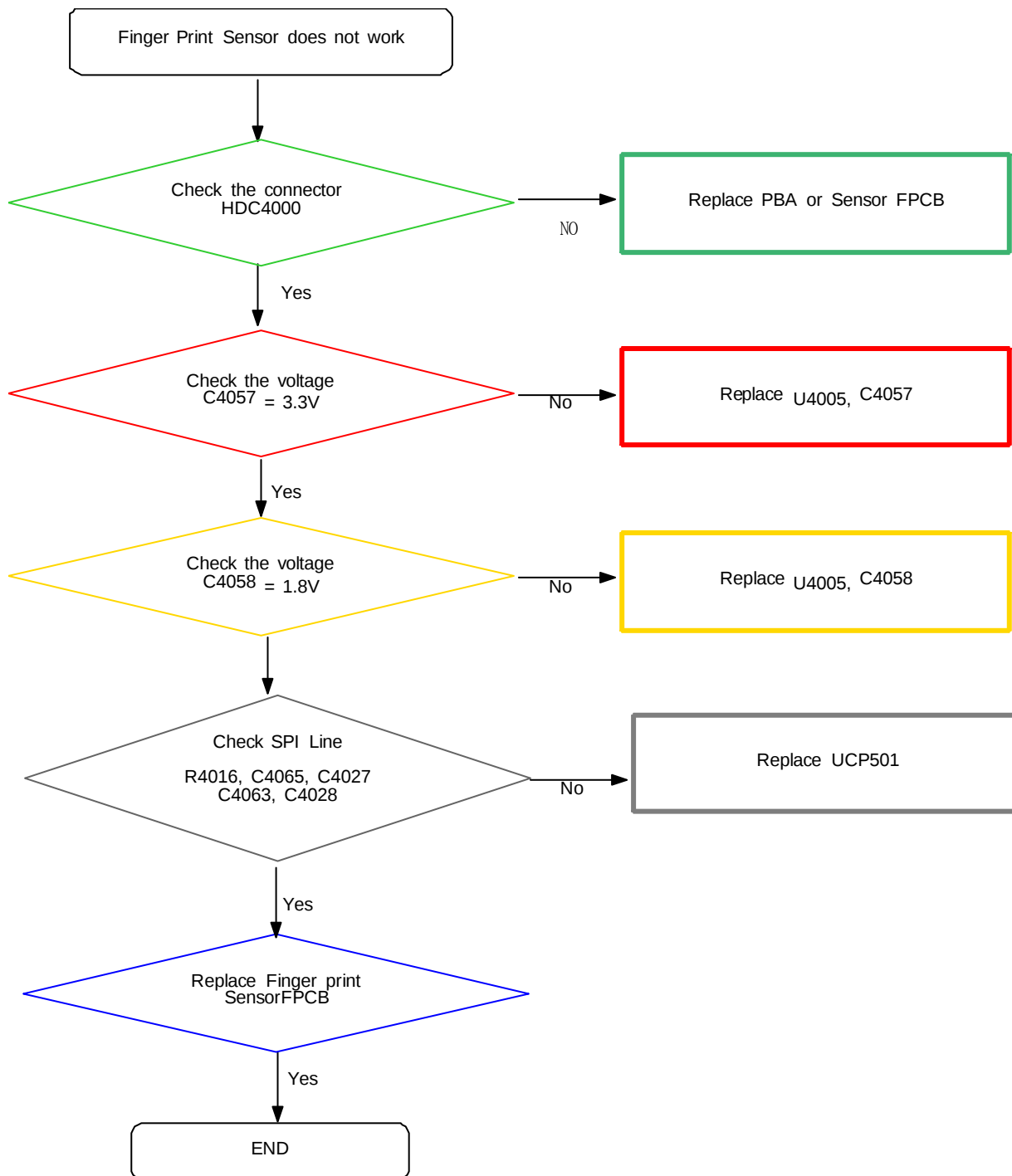
8. Level 3 Repair

8-3-7-4. Barometer Sensor



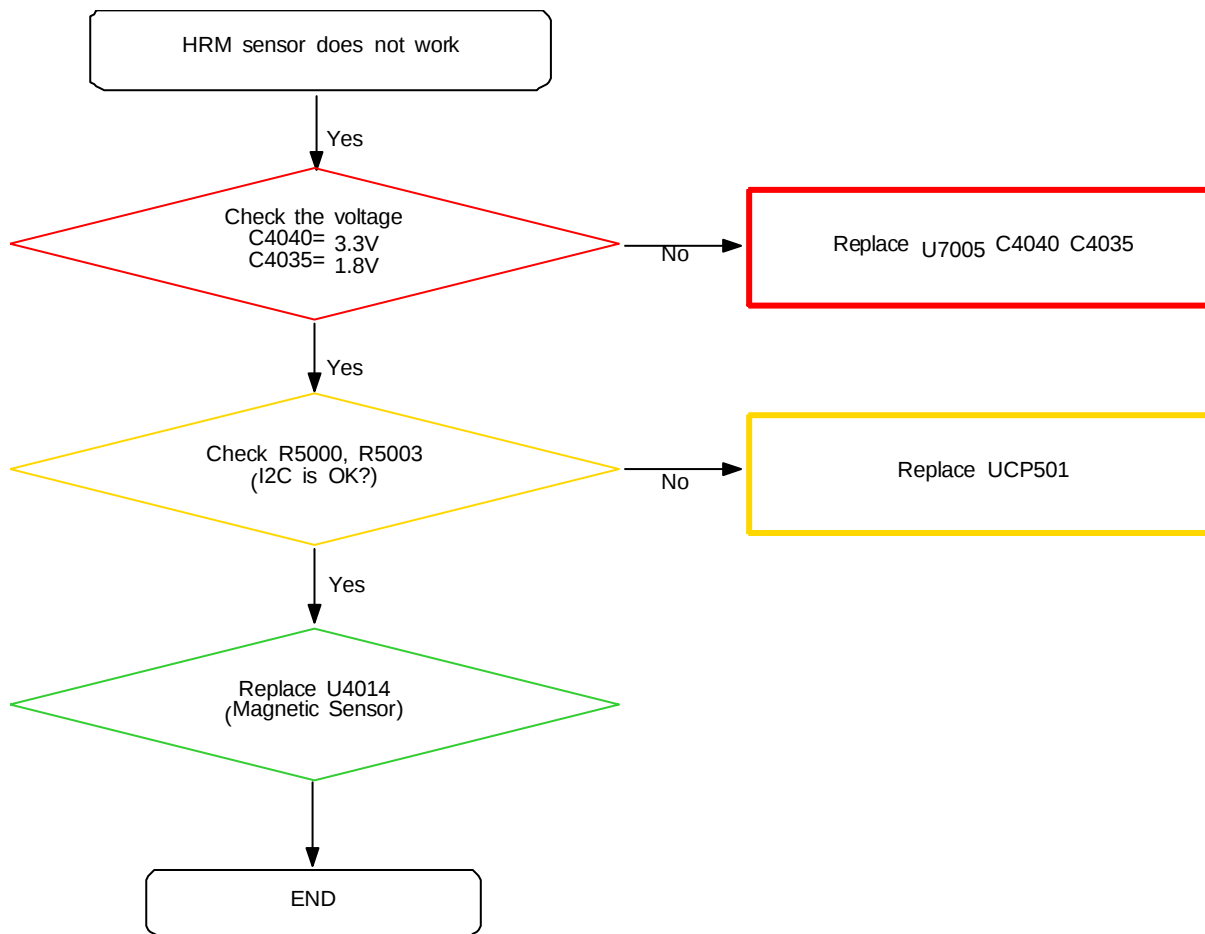
8. Level 3 Repair

8-3-7-5. Finger Print Sensor



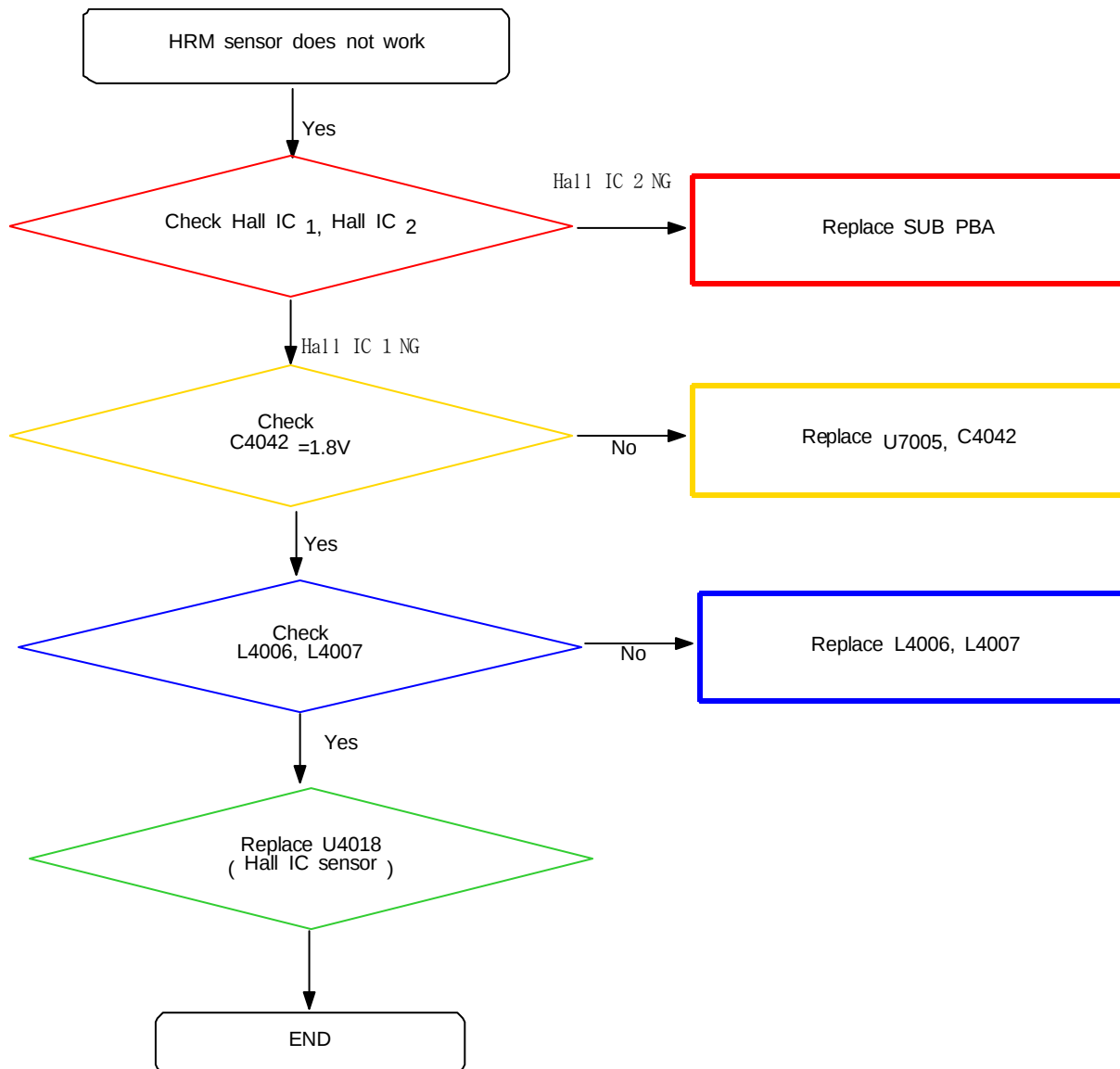
8. Level 3 Repair

8-3-7-6. HRM Sensor



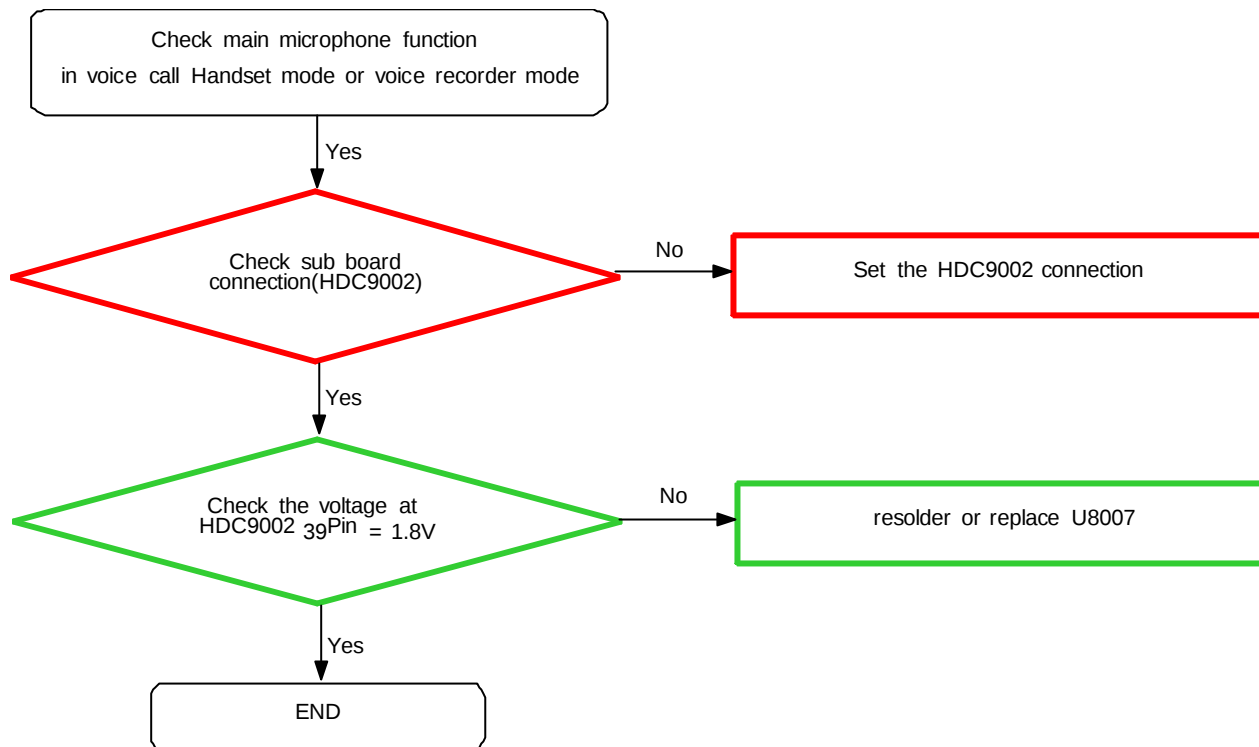
8. Level 3 Repair

8-3-7-7. Hall IC



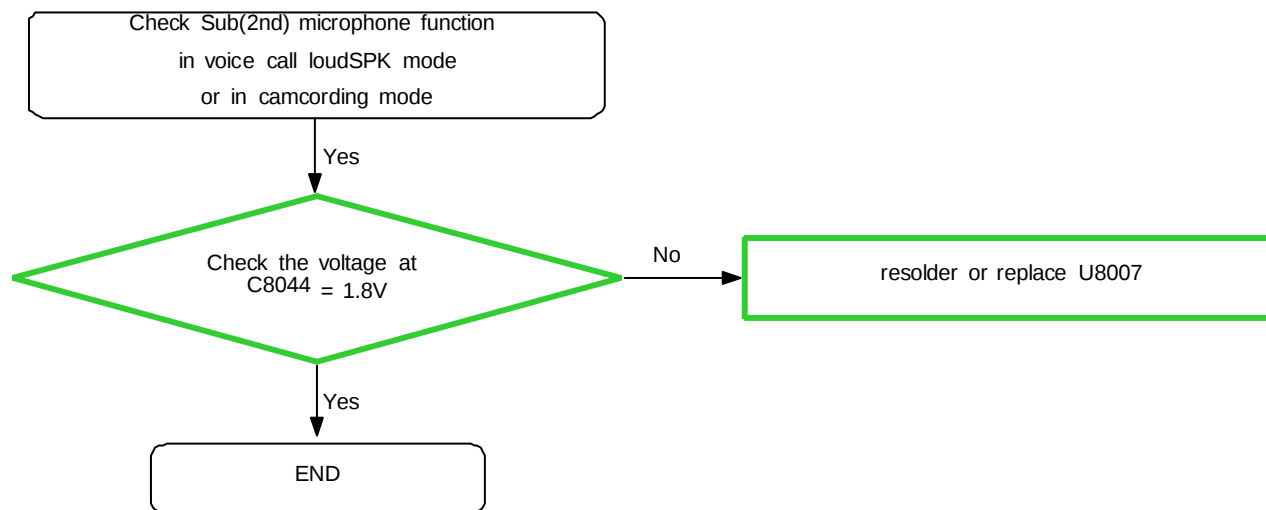
8. Level 3 Repair

8-3-8-1. Microphone Part - Main MIC



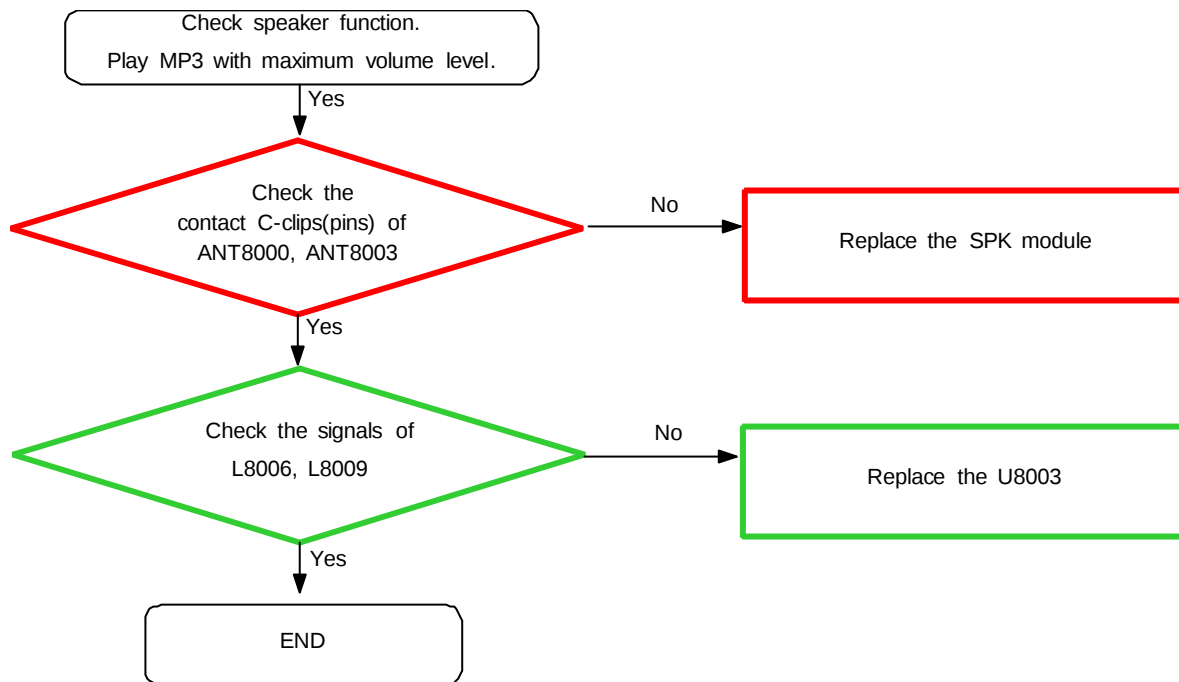
8. Level 3 Repair

8-3-8-2. Microphone Part - Sub(2nd) MIC



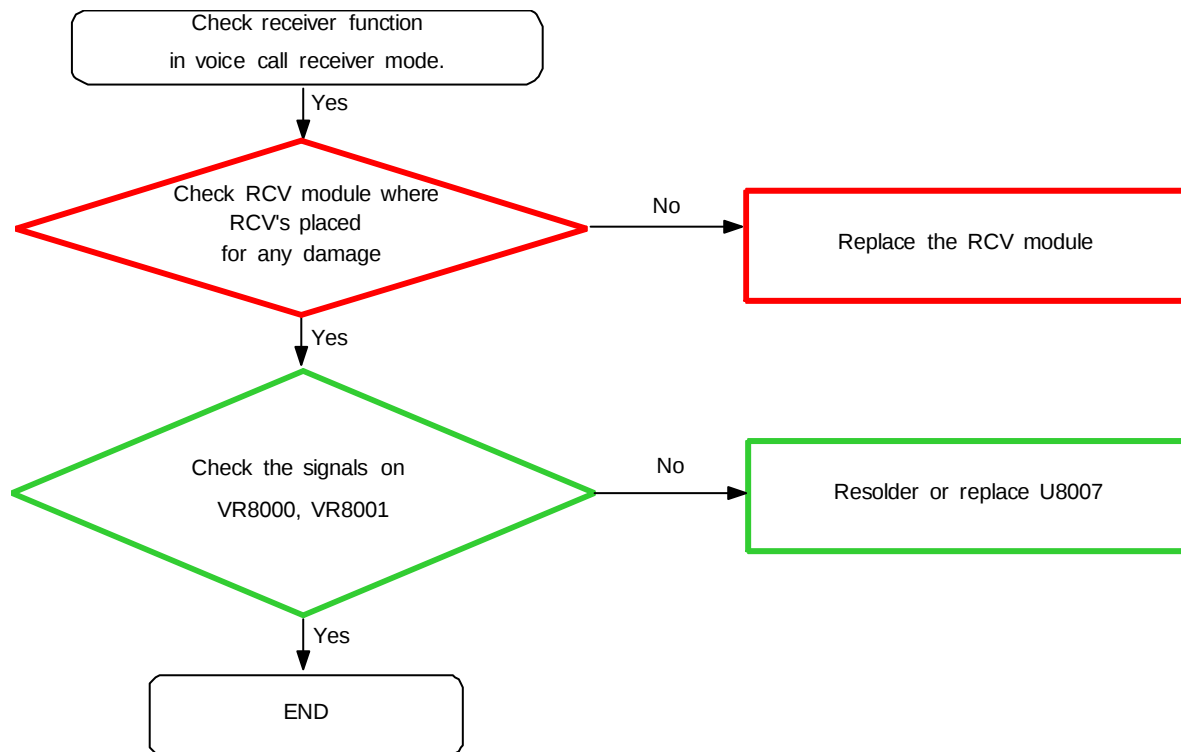
8. Level 3 Repair

8-3-9. Speaker Part



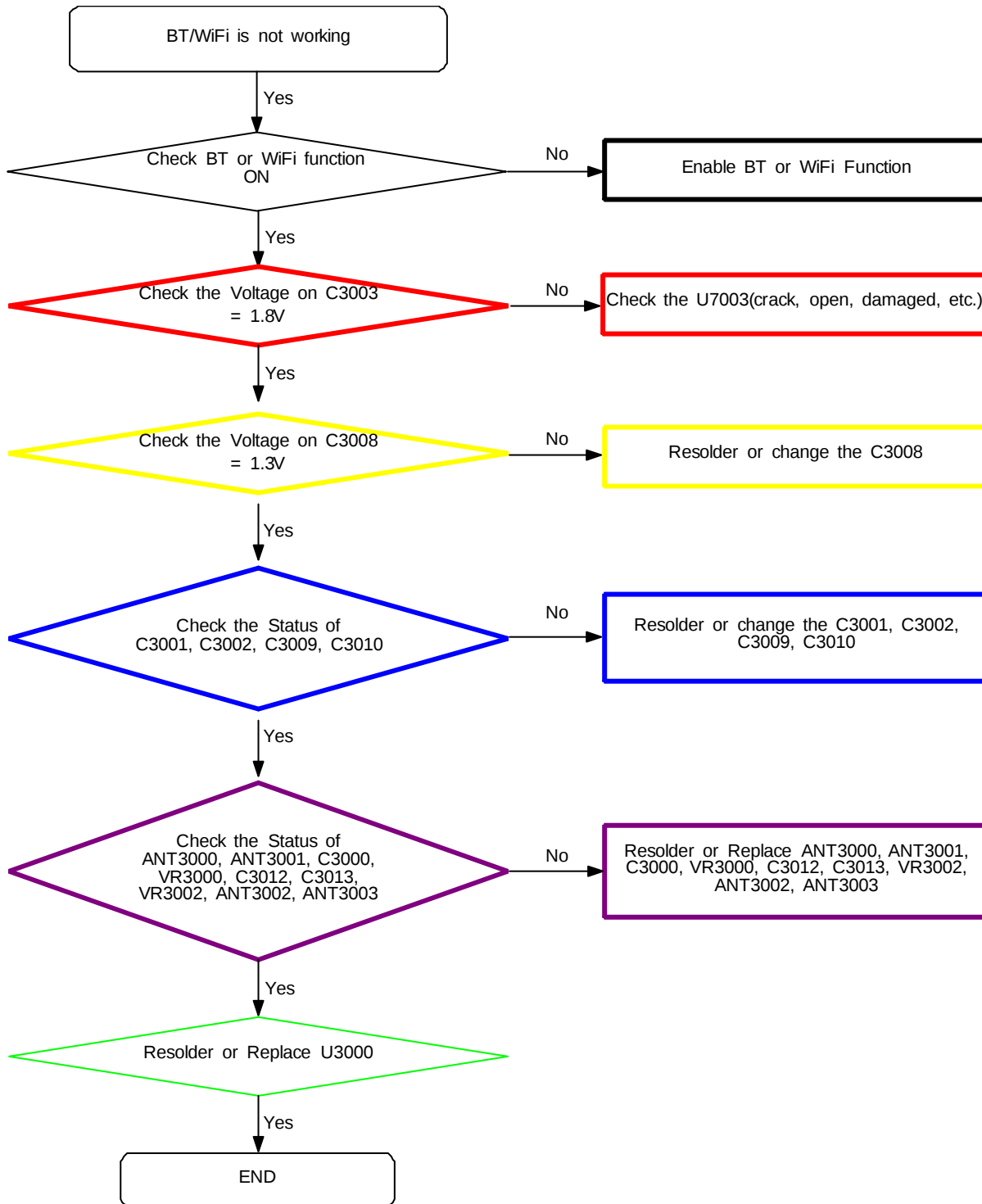
8. Level 3 Repair

8-3-10. Receiver Part



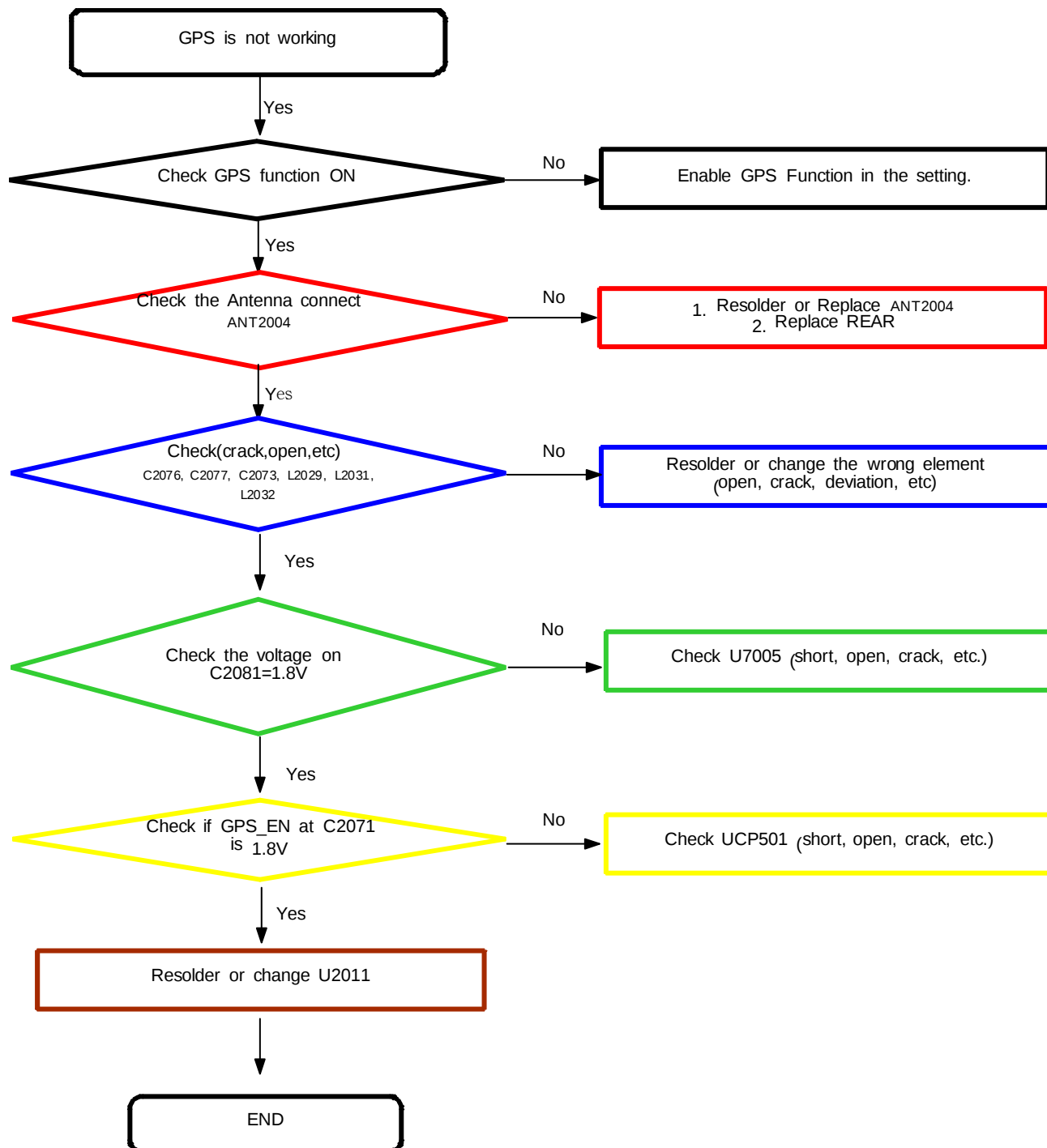
8. Level 3 Repair

8-3-11. BT/WIFI



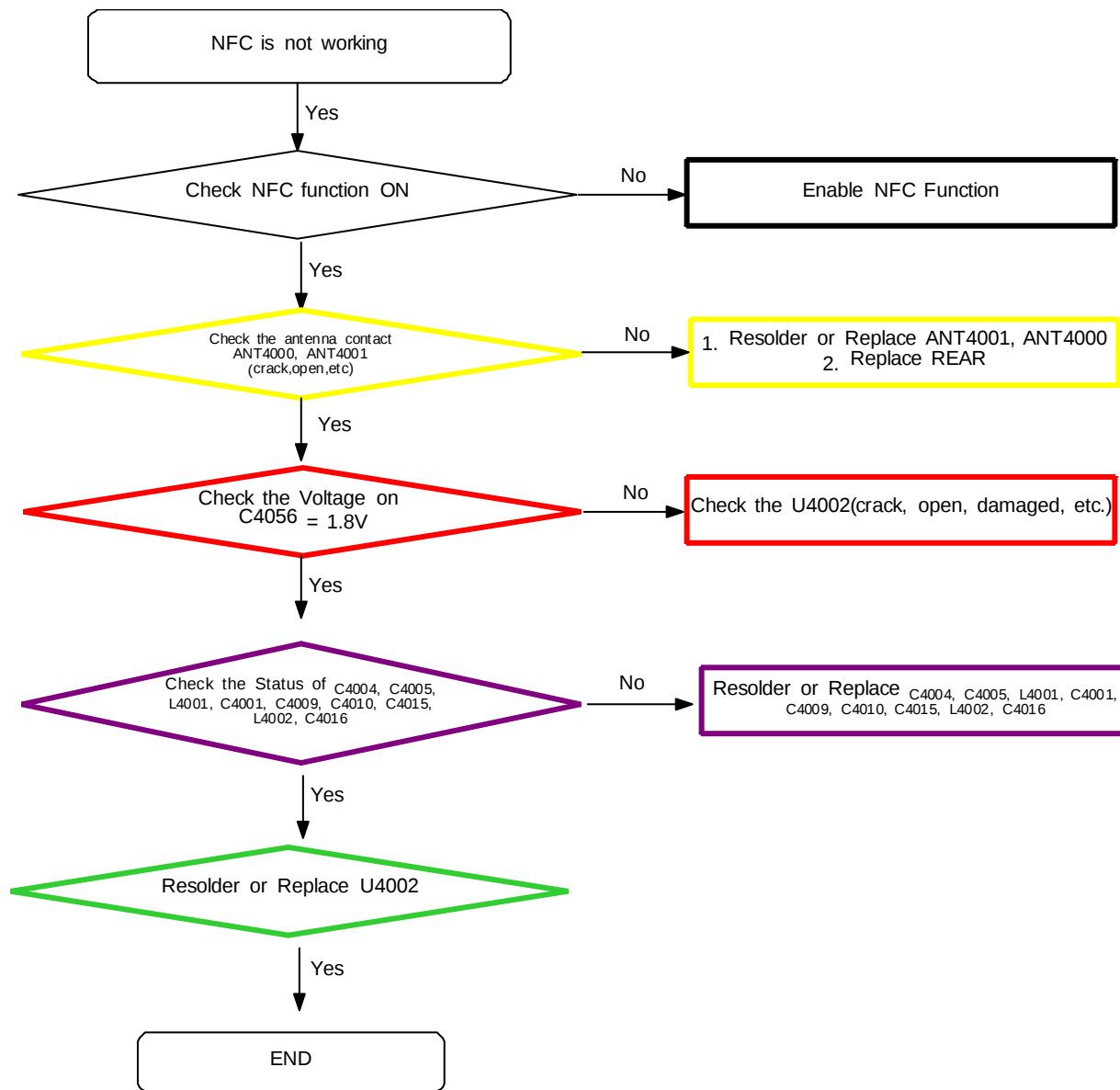
8. Level 3 Repair

8-3-12. GPS



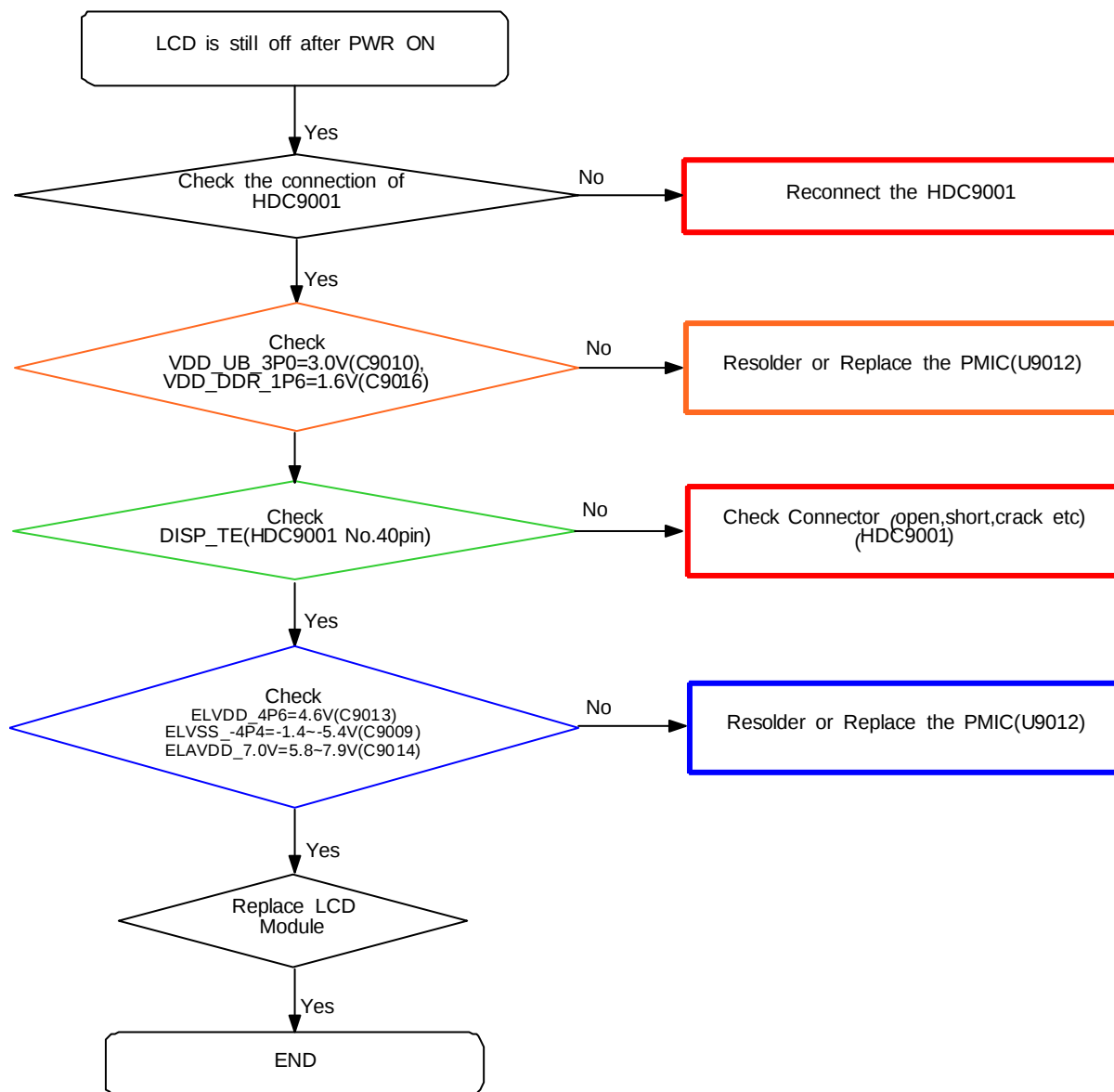
8. Level 3 Repair

8-3-13. NFC



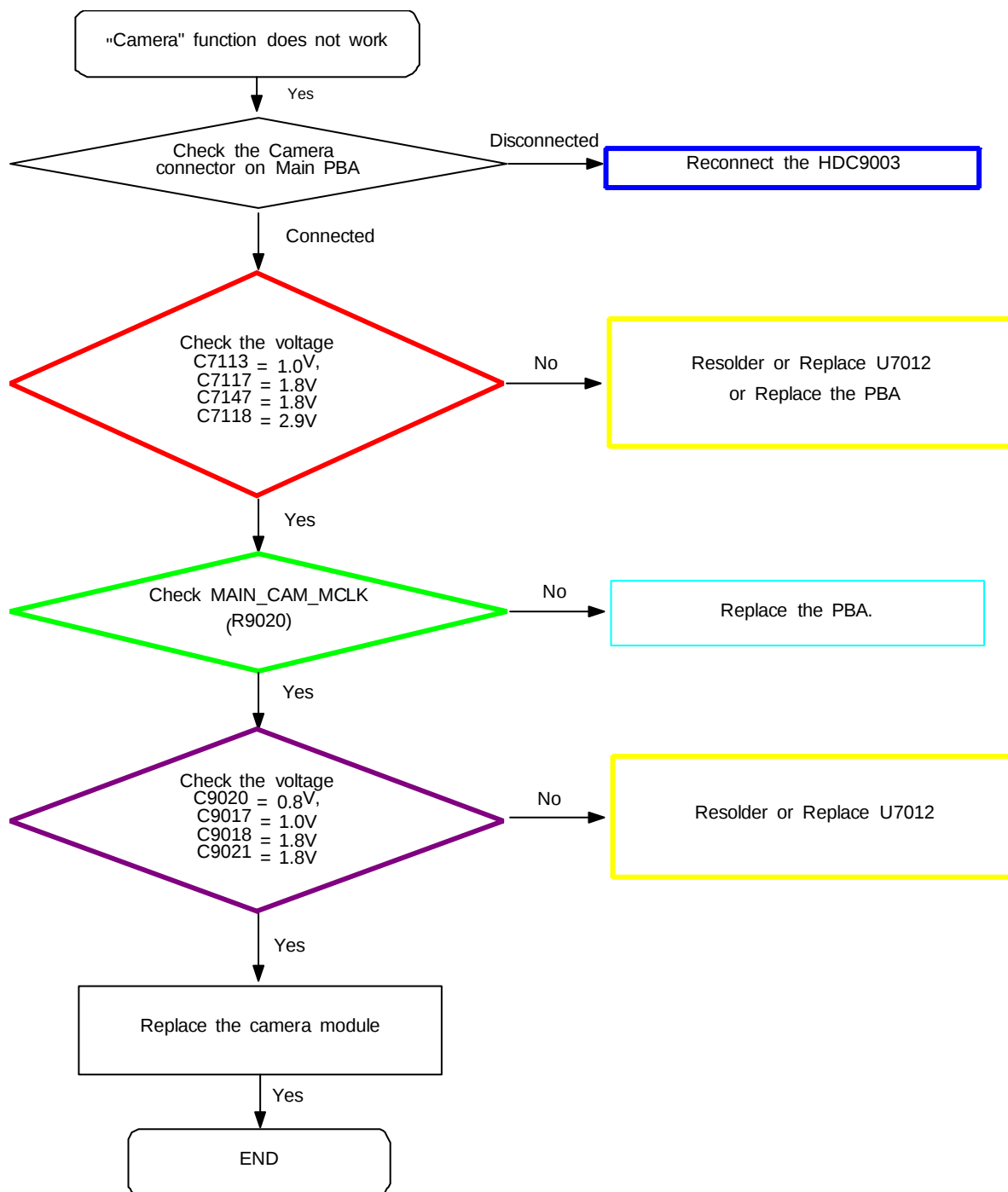
8. Level 3 Repair

8-3-14. Display



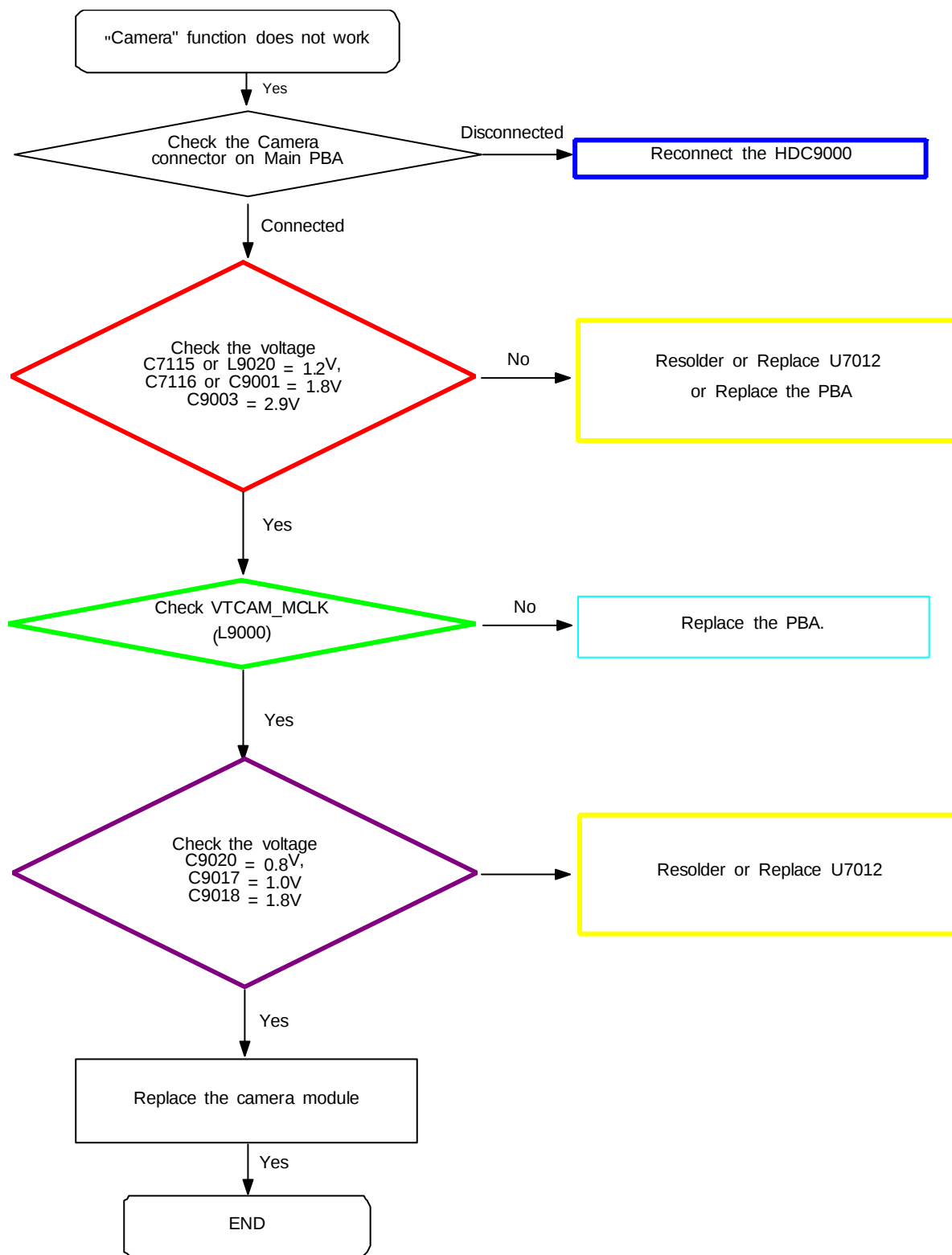
8. Level 3 Repair

8-3-15. 12M CAM



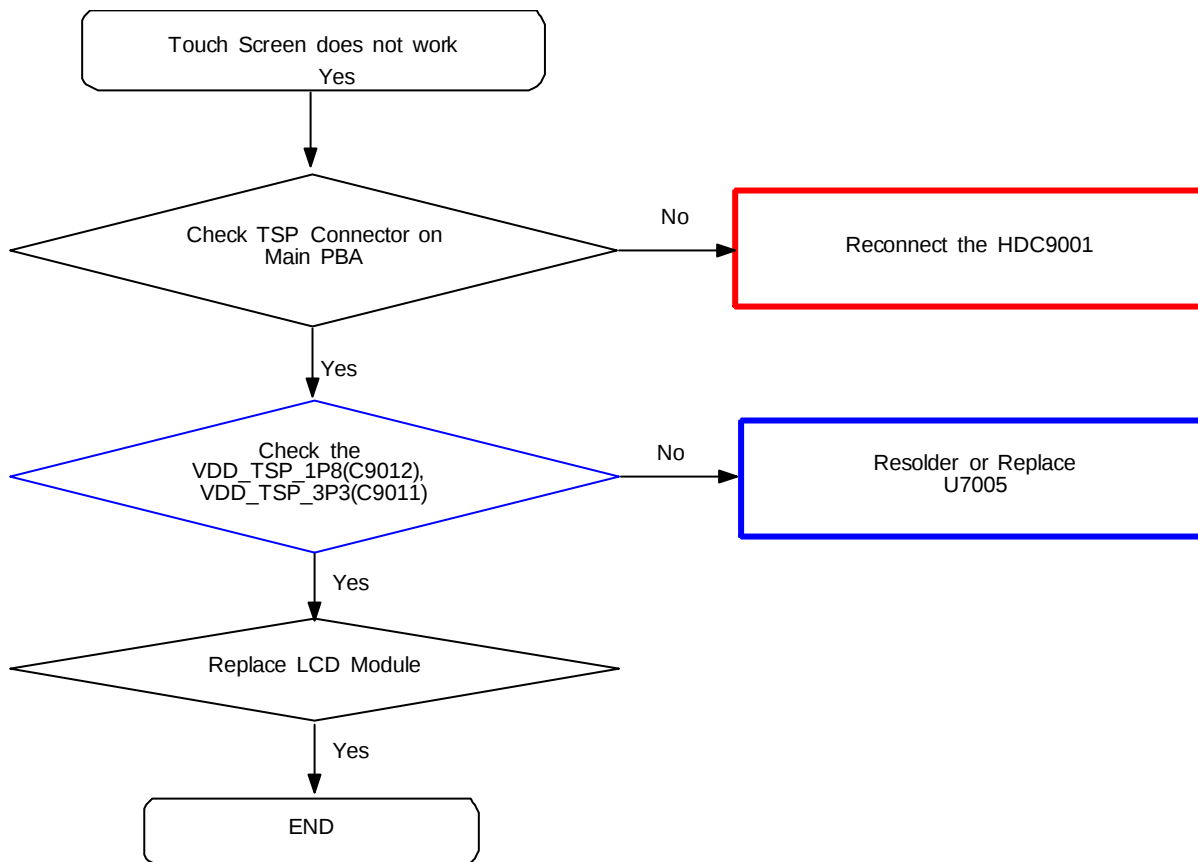
8. Level 3 Repair

8-3-16. 5M CAM



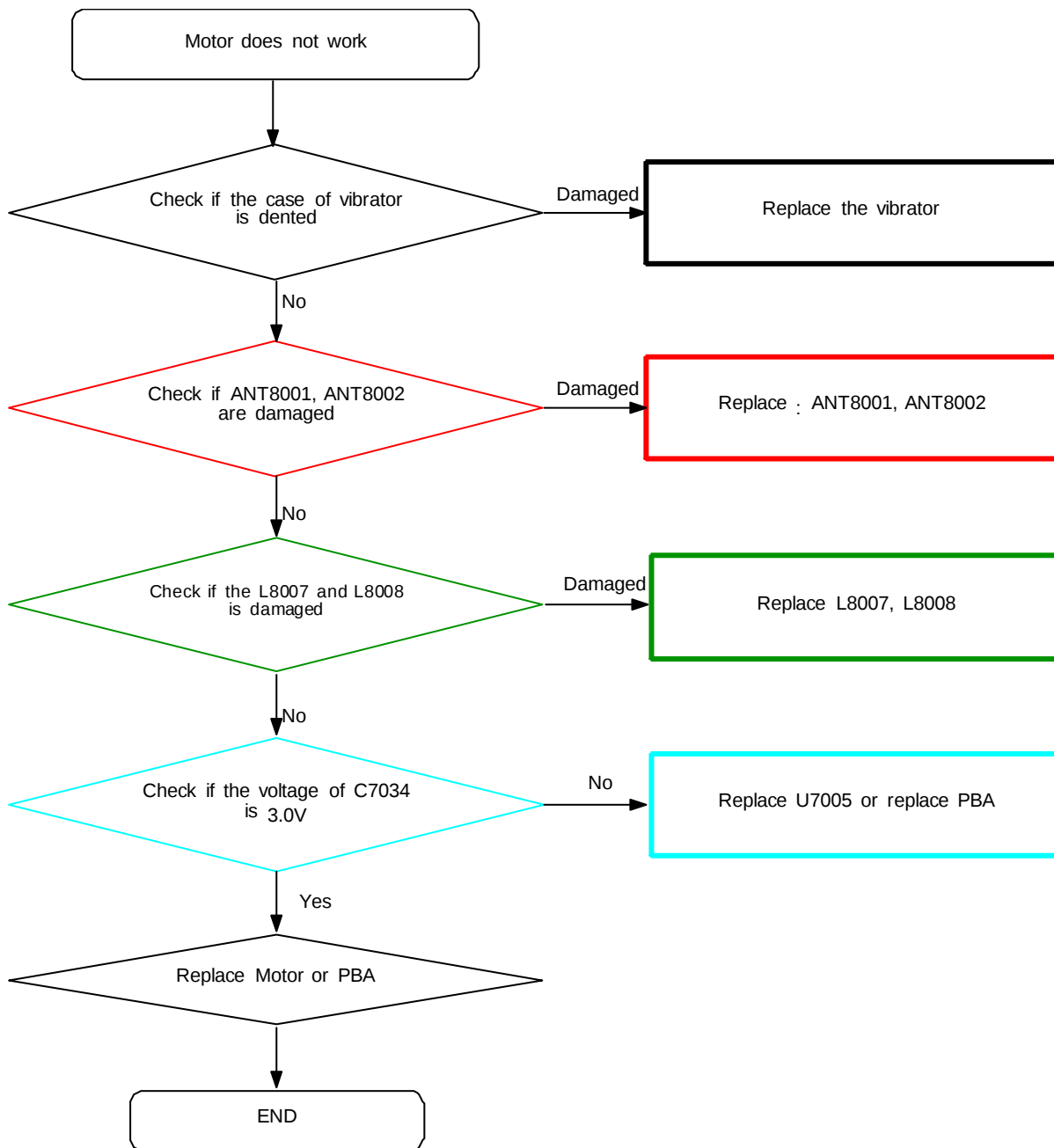
8. Level 3 Repair

8-3-17. TSP



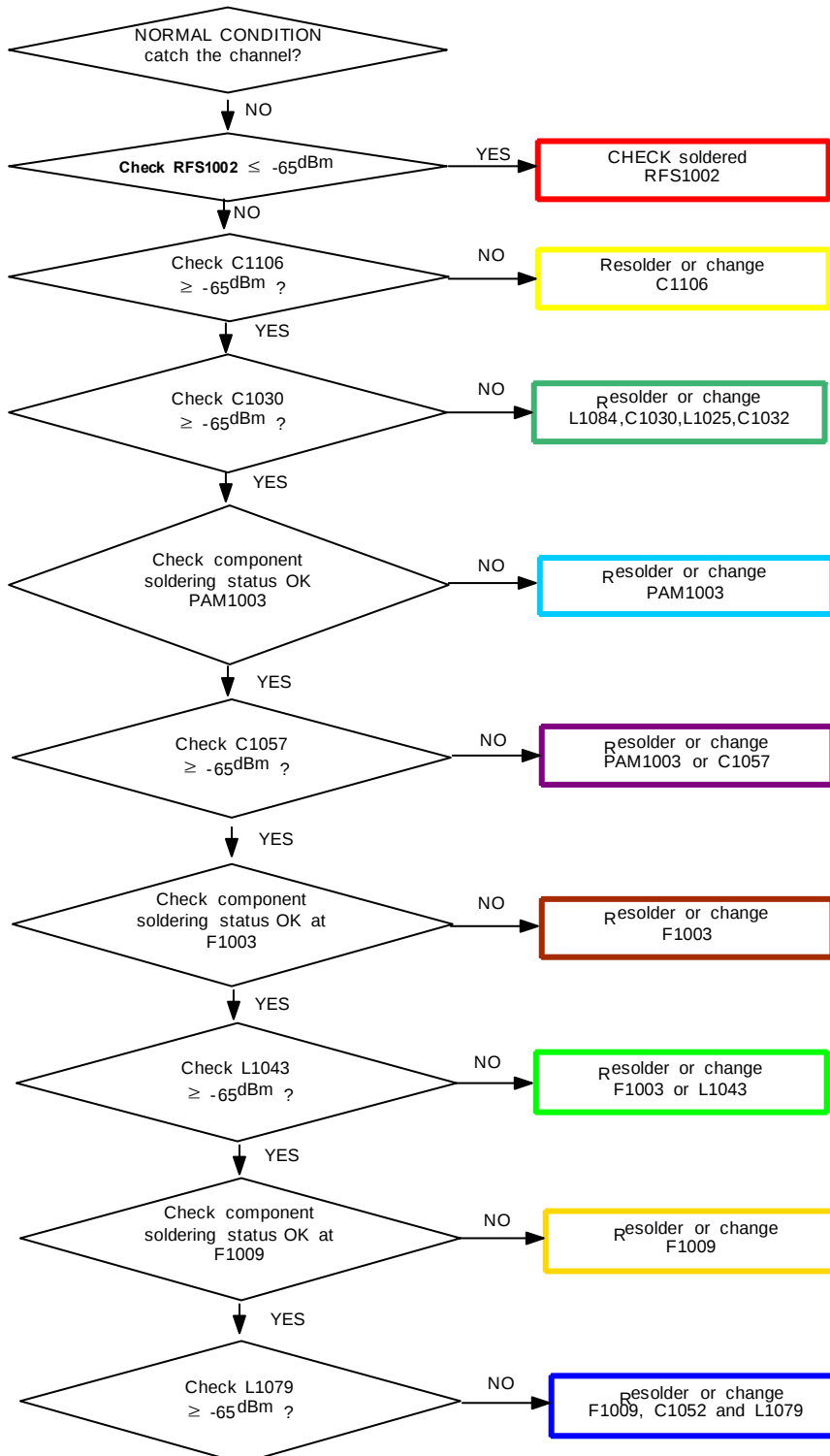
8. Level 3 Repair

8-3-18. Motor

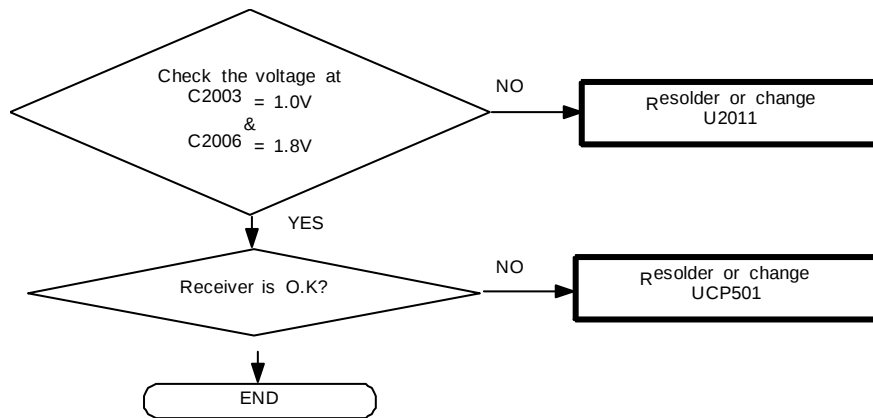


8. Level 3 Repair

8-3-19. WCDMA B1, LTE B4 RX

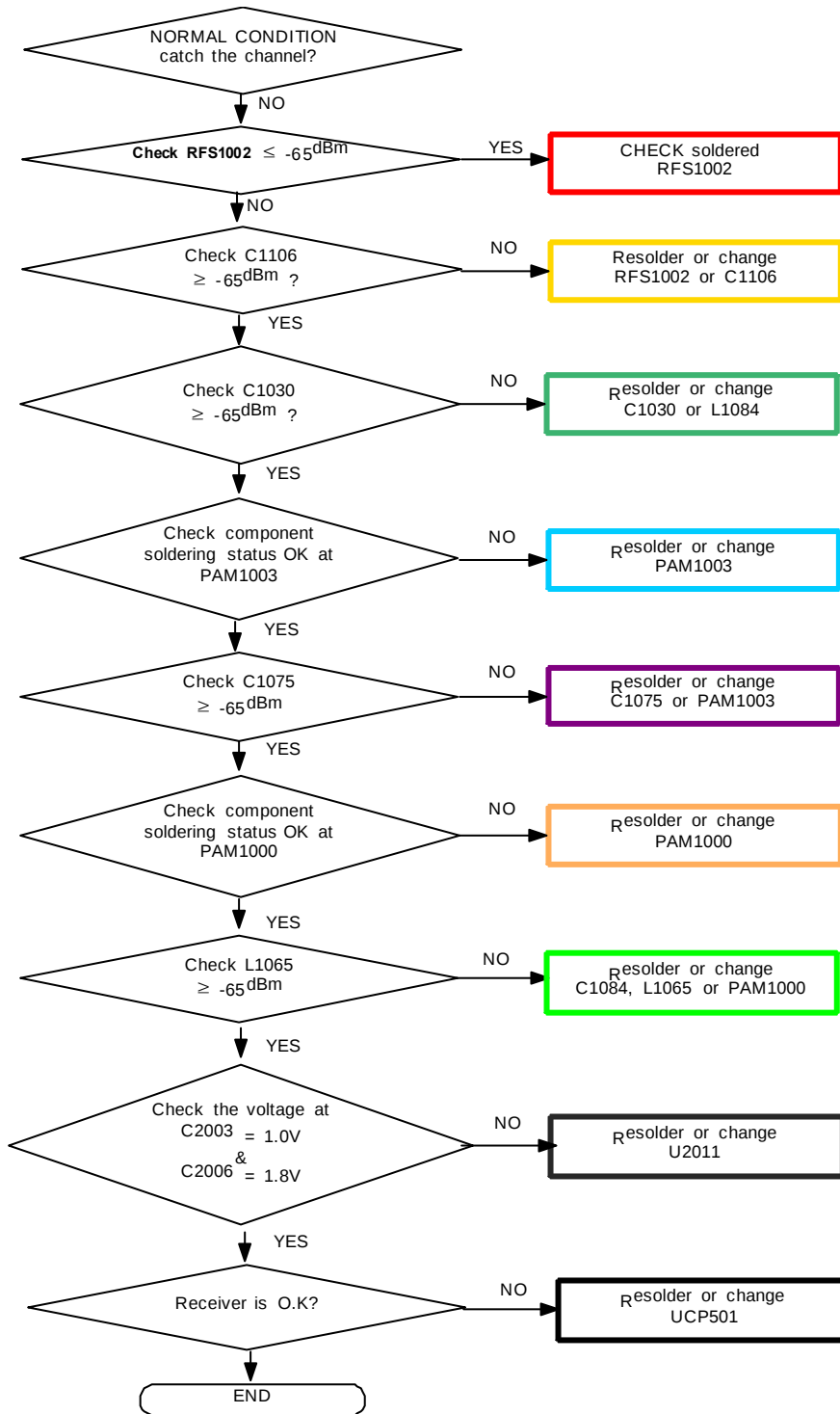


8. Level 3 Repair



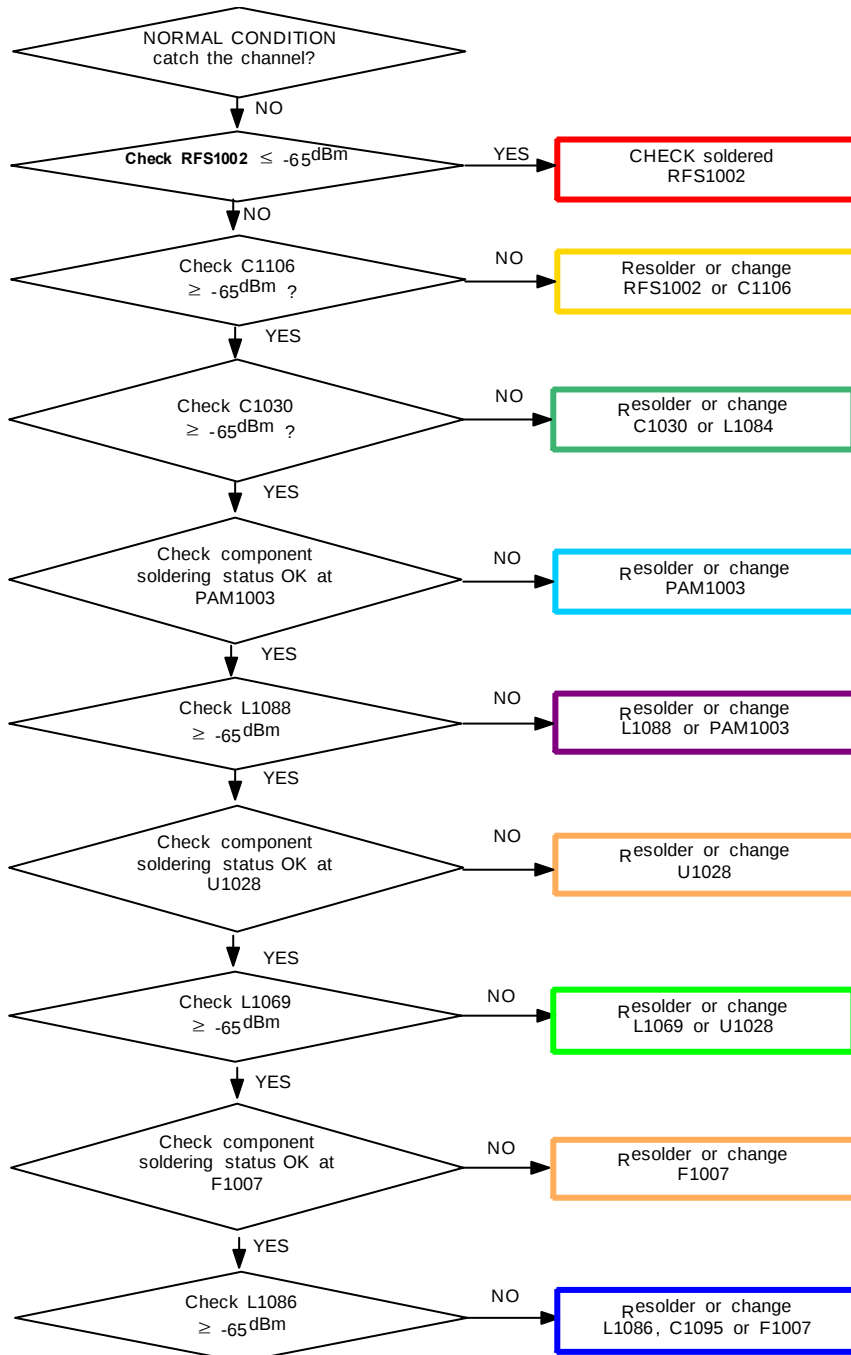
8. Level 3 Repair

8-3-20. LTE B30 RX

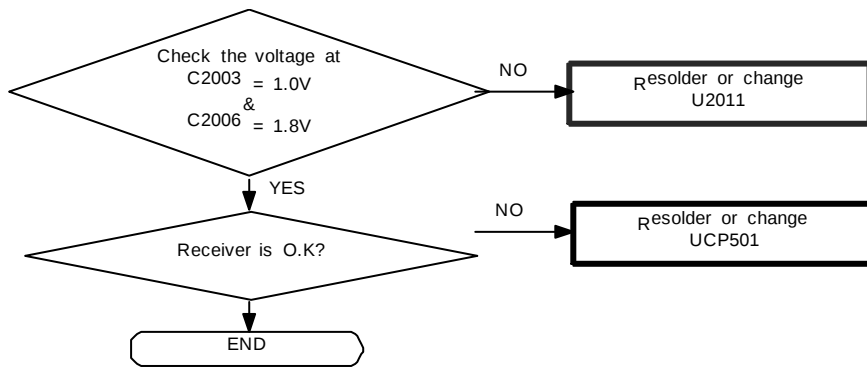


8. Level 3 Repair

8-3-21. LTE B7 Rx

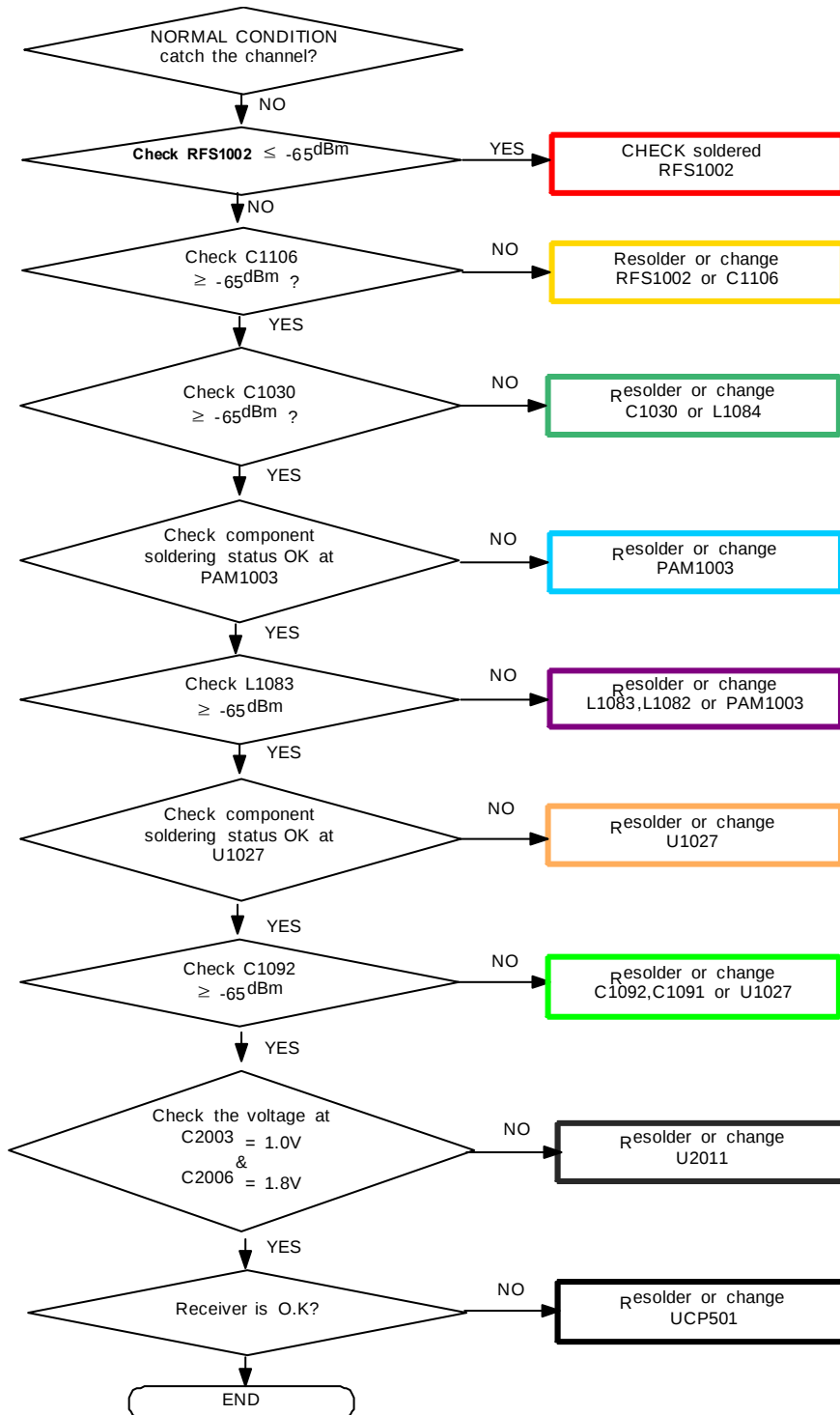


8. Level 3 Repair



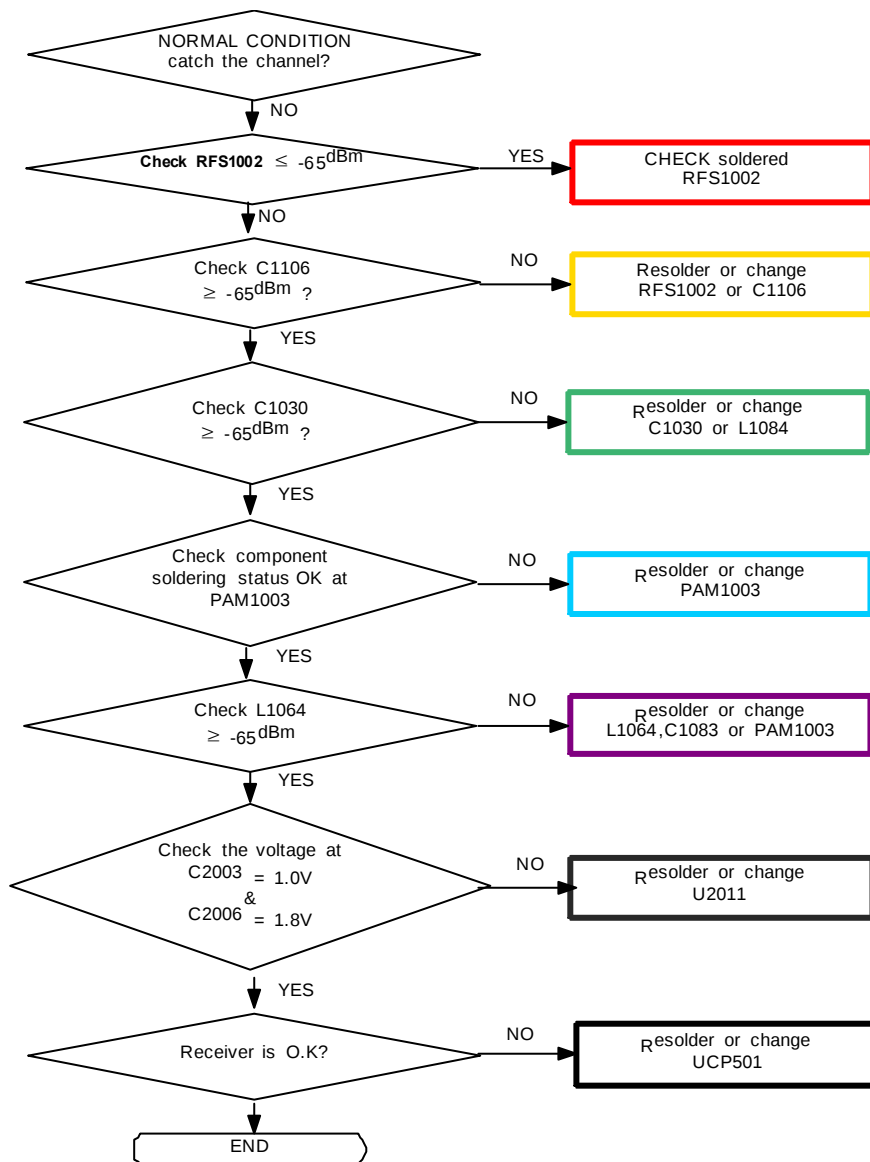
8. Level 3 Repair

8-3-22. LTE B38, B41 RX



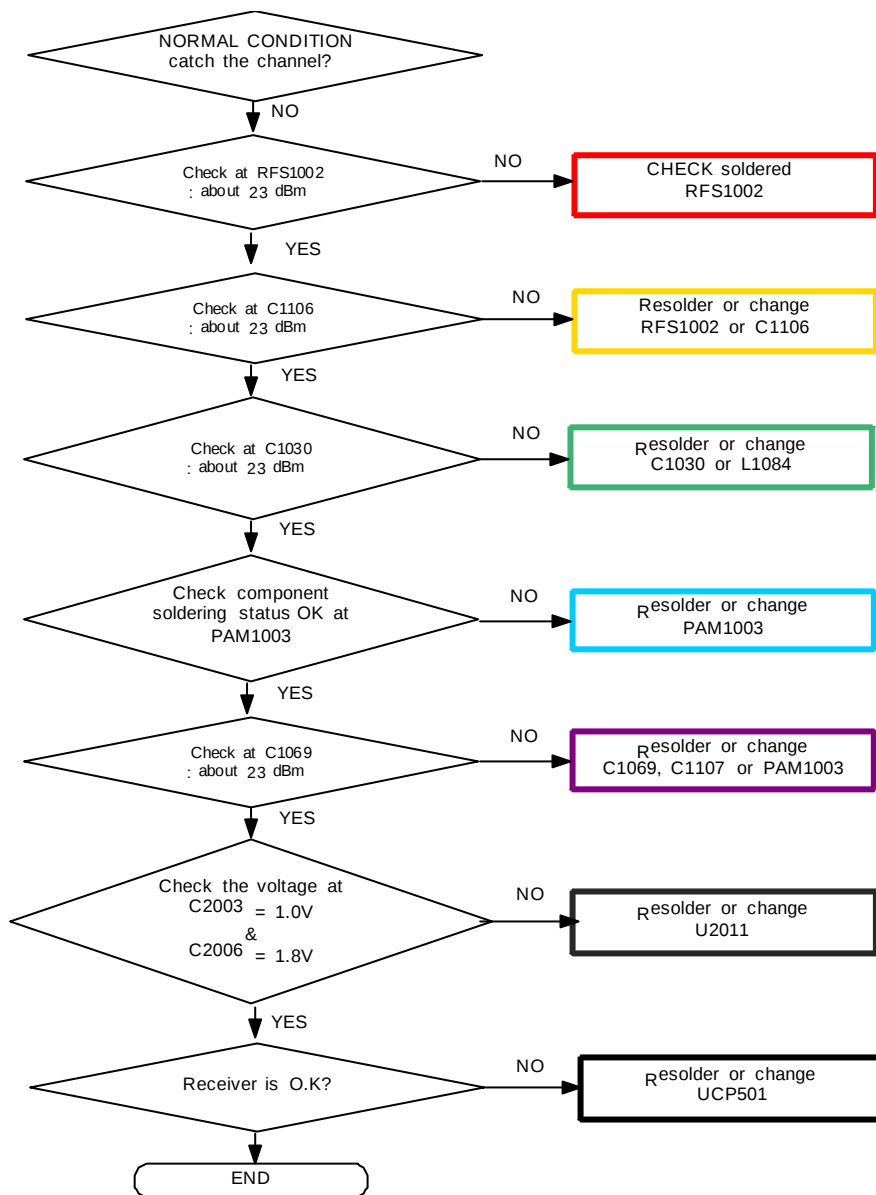
8. Level 3 Repair

8-3-23. LTE B40 RX



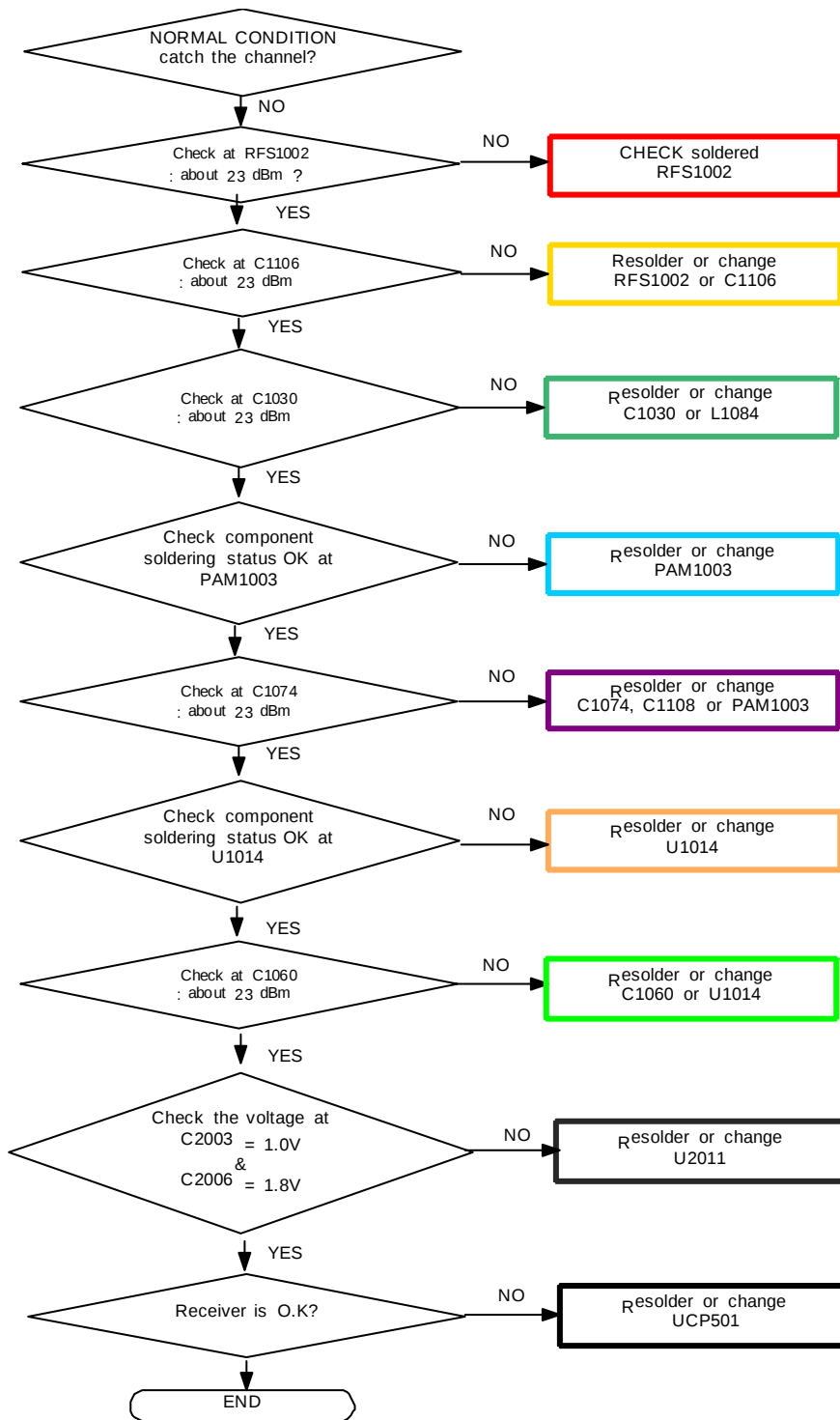
8. Level 3 Repair

8-3-24. LTE B38, B40, B41 TX



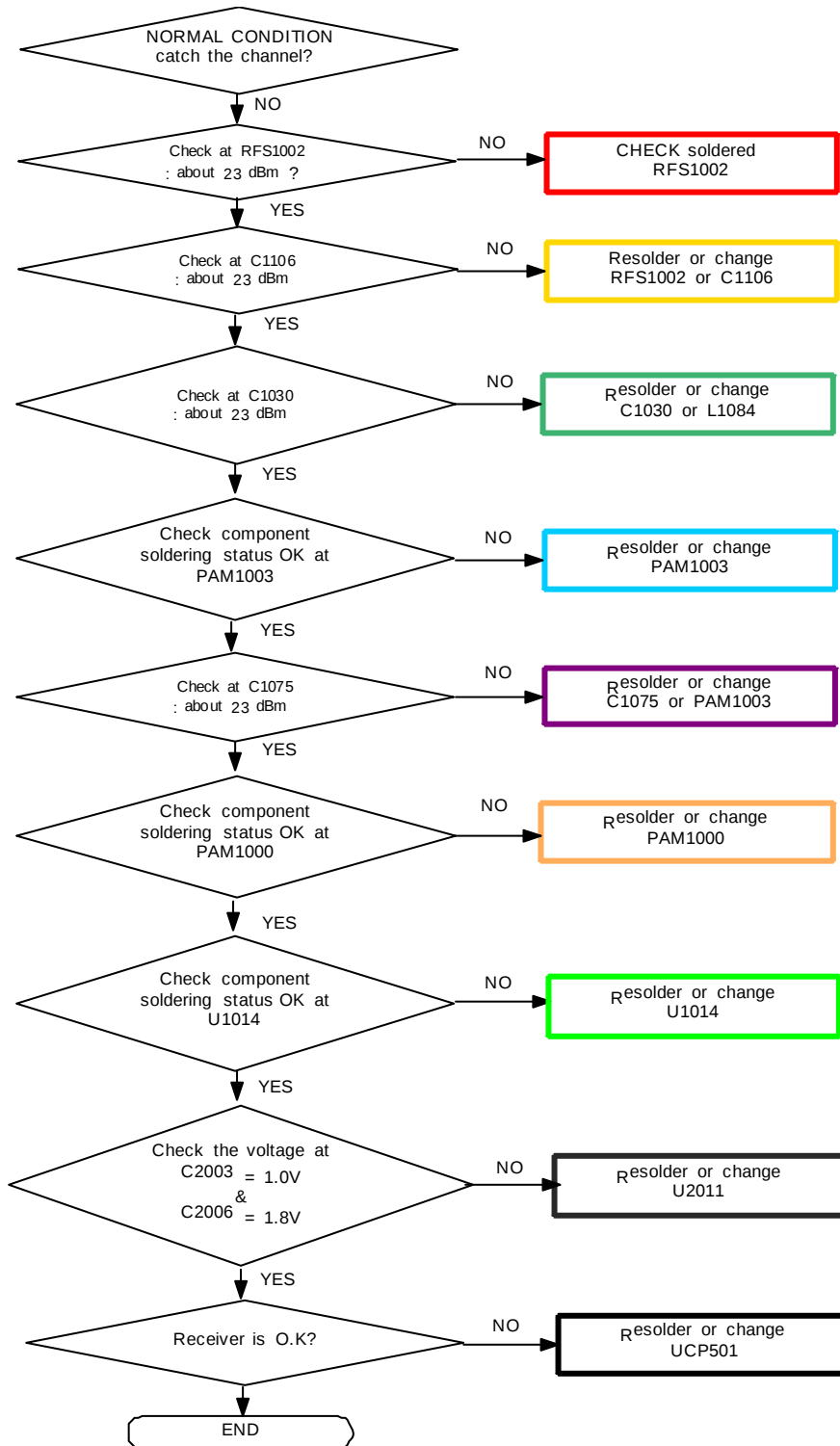
8. Level 3 Repair

8-3-25. LTE 7 TX



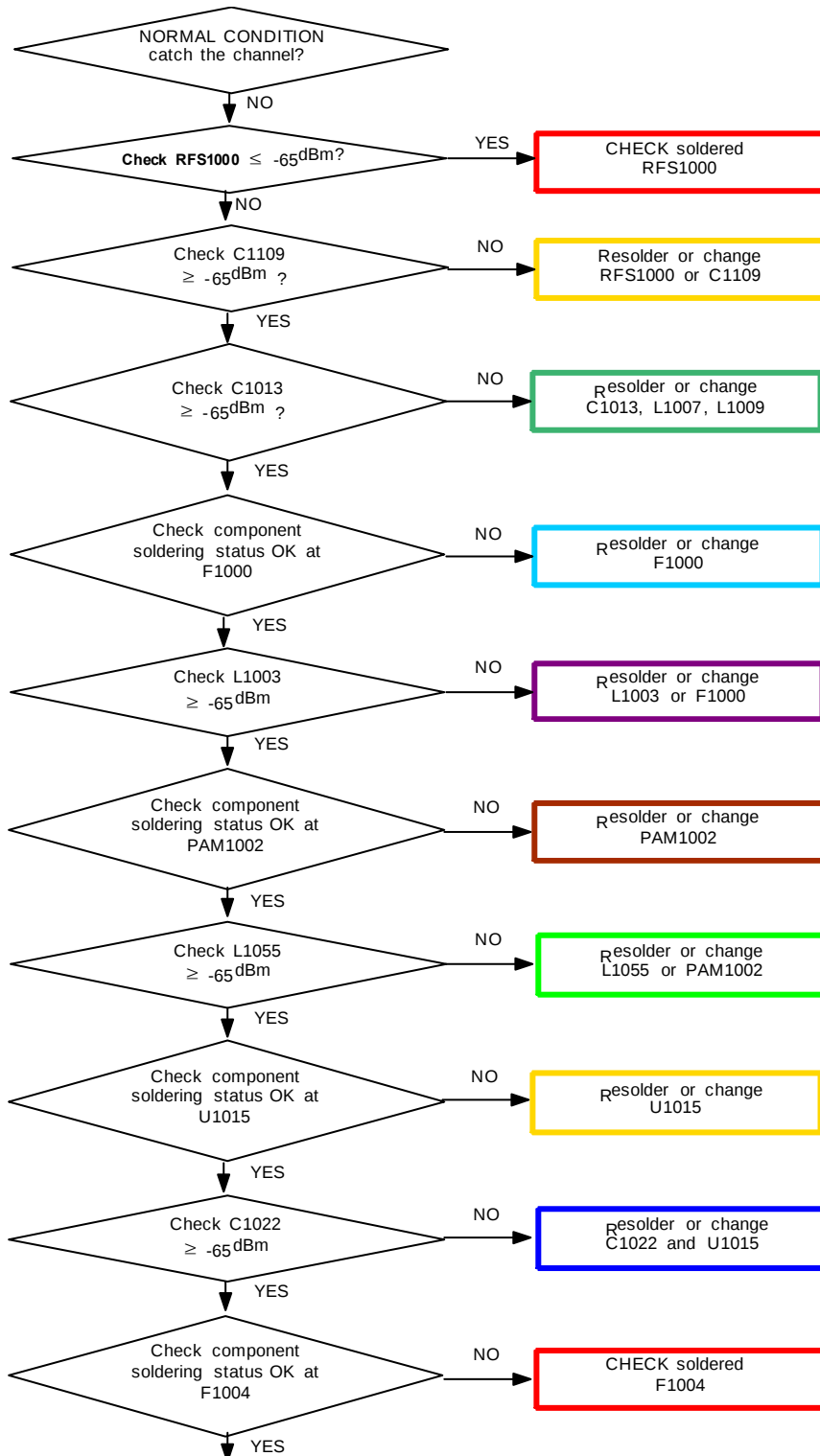
8. Level 3 Repair

8-3-26. LTE B30 TX

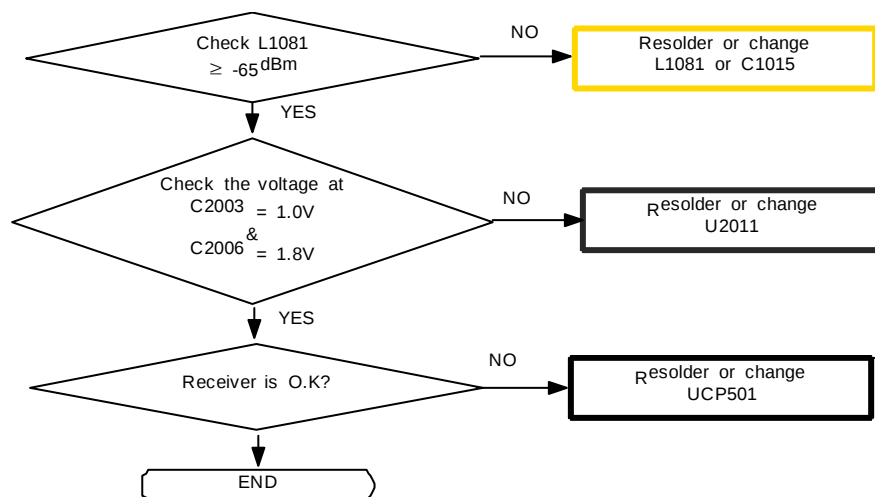


8. Level 3 Repair

8-3-27. LTE B1 RX

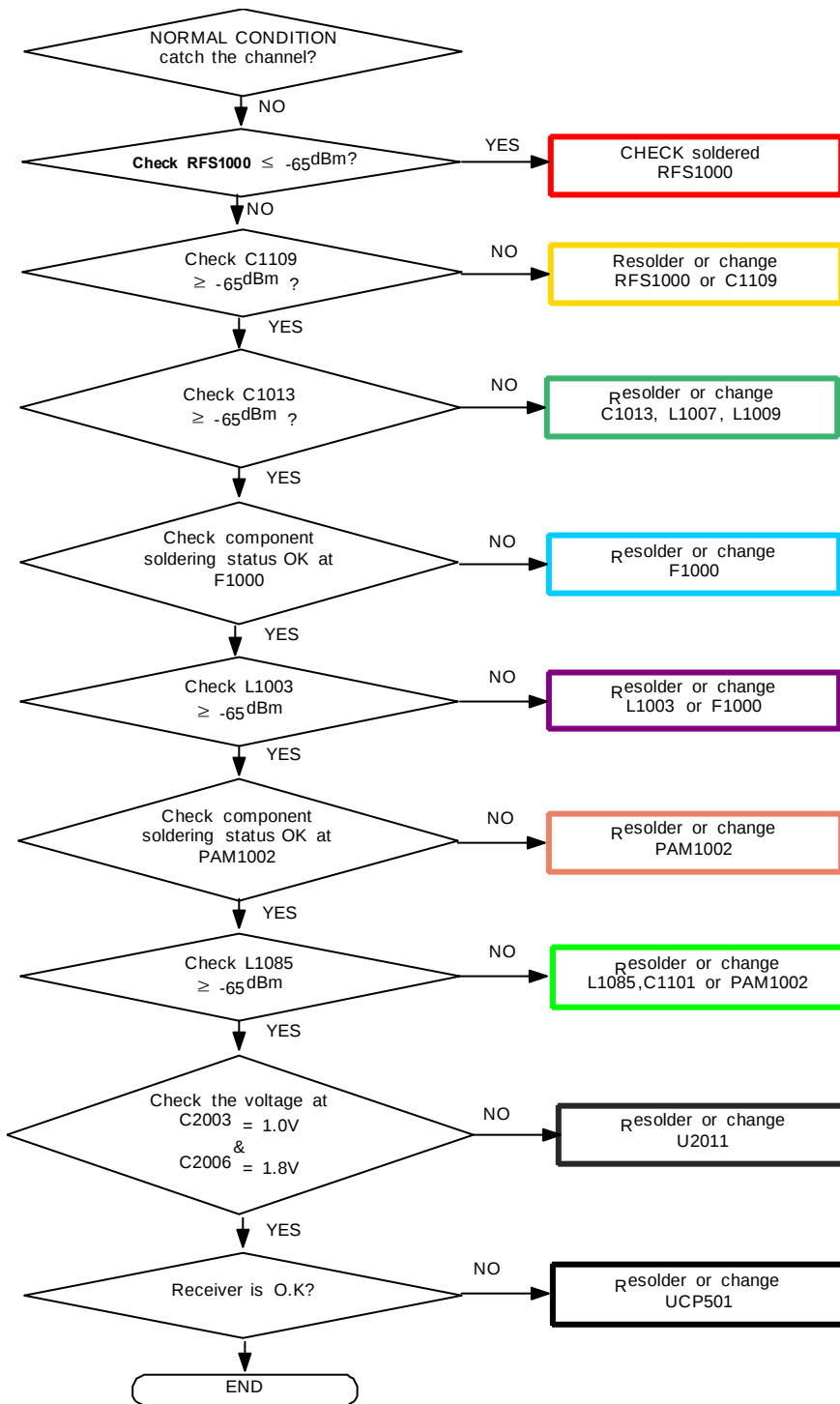


8. Level 3 Repair



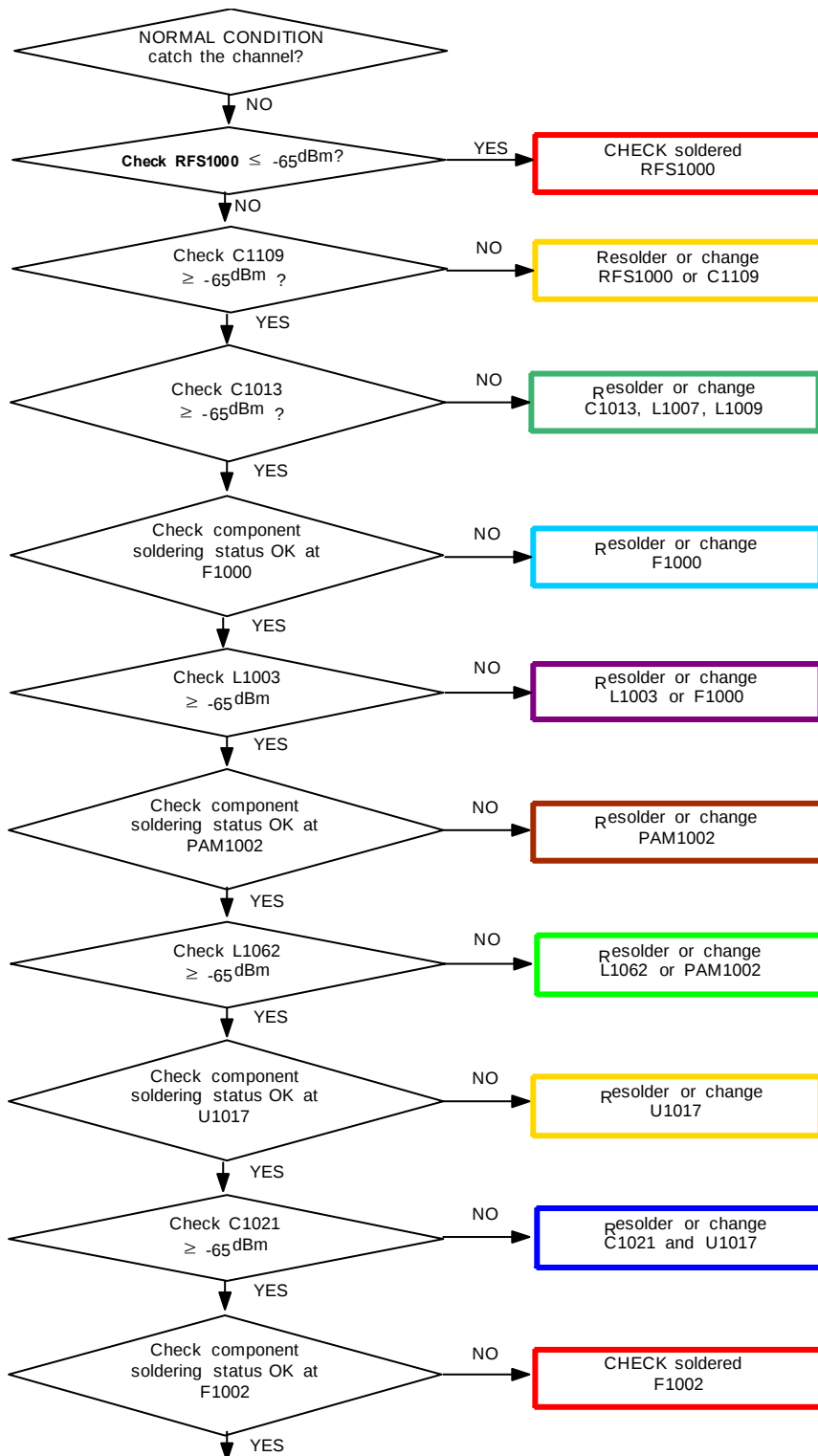
8. Level 3 Repair

8-3-28. GSM1800, LTE B3, WCDMA B3 RX

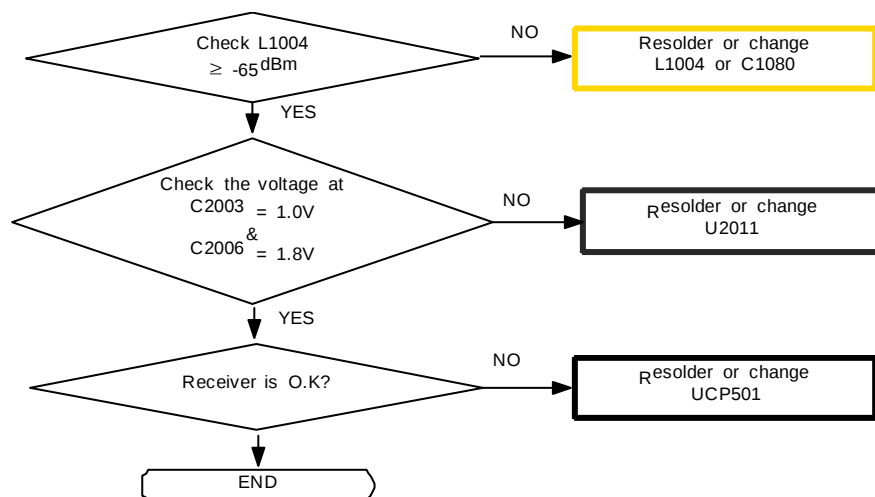


8. Level 3 Repair

8-3-29. BC1,G1900,LTE B2/25,WCDMA B2 RX

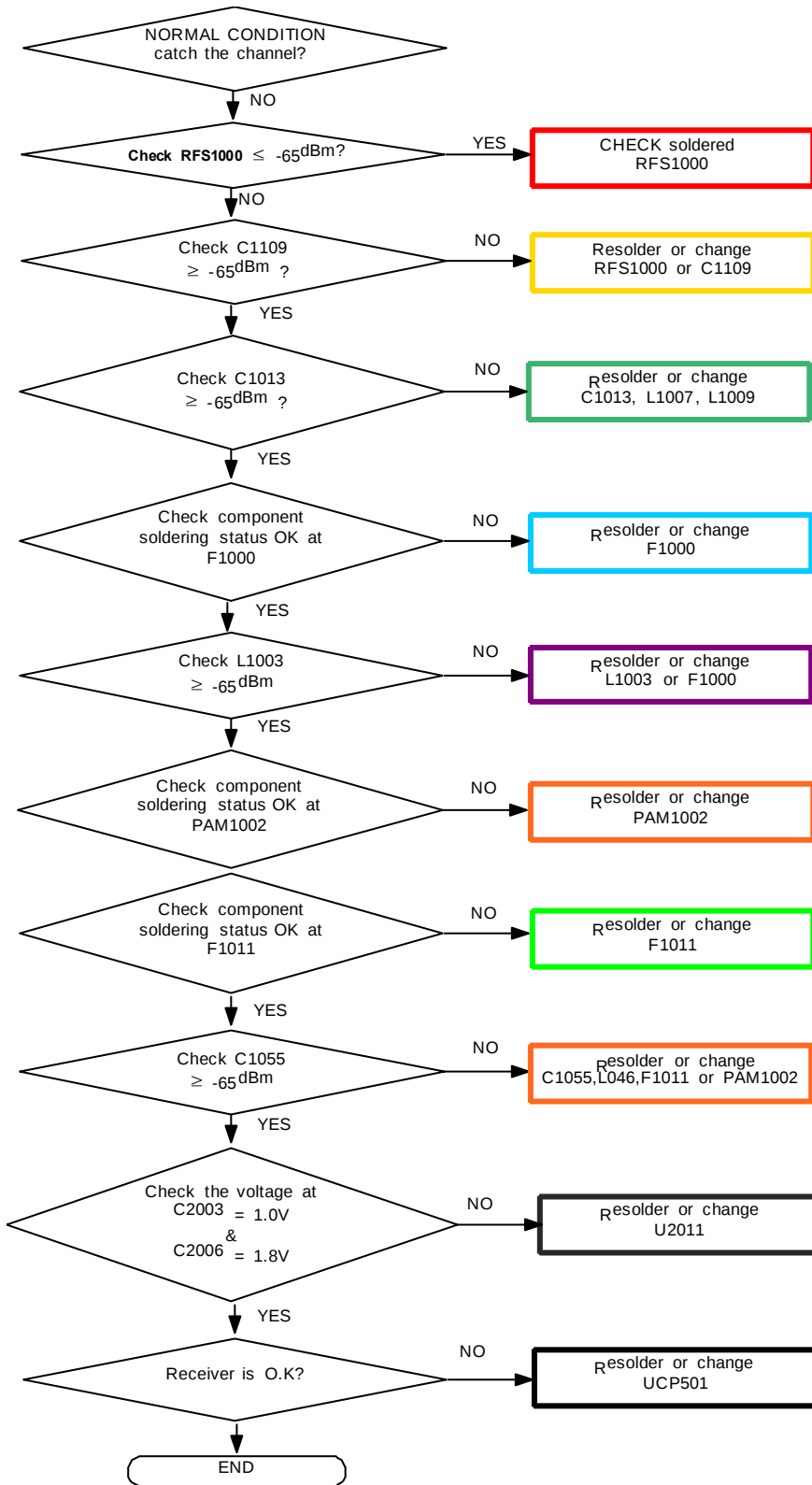


8. Level 3 Repair



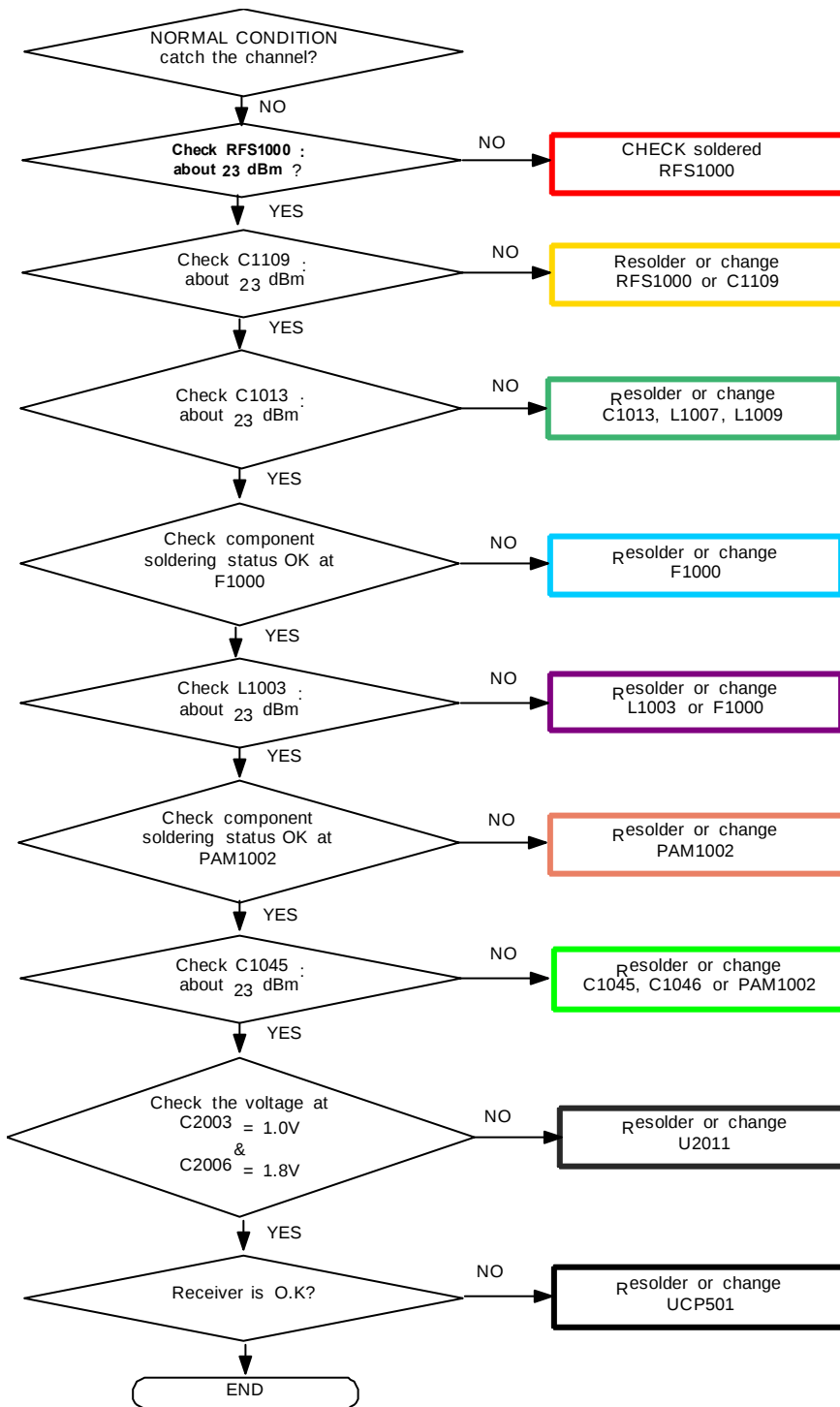
8. Level 3 Repair

8-3-30. LTE B34/B39 RX



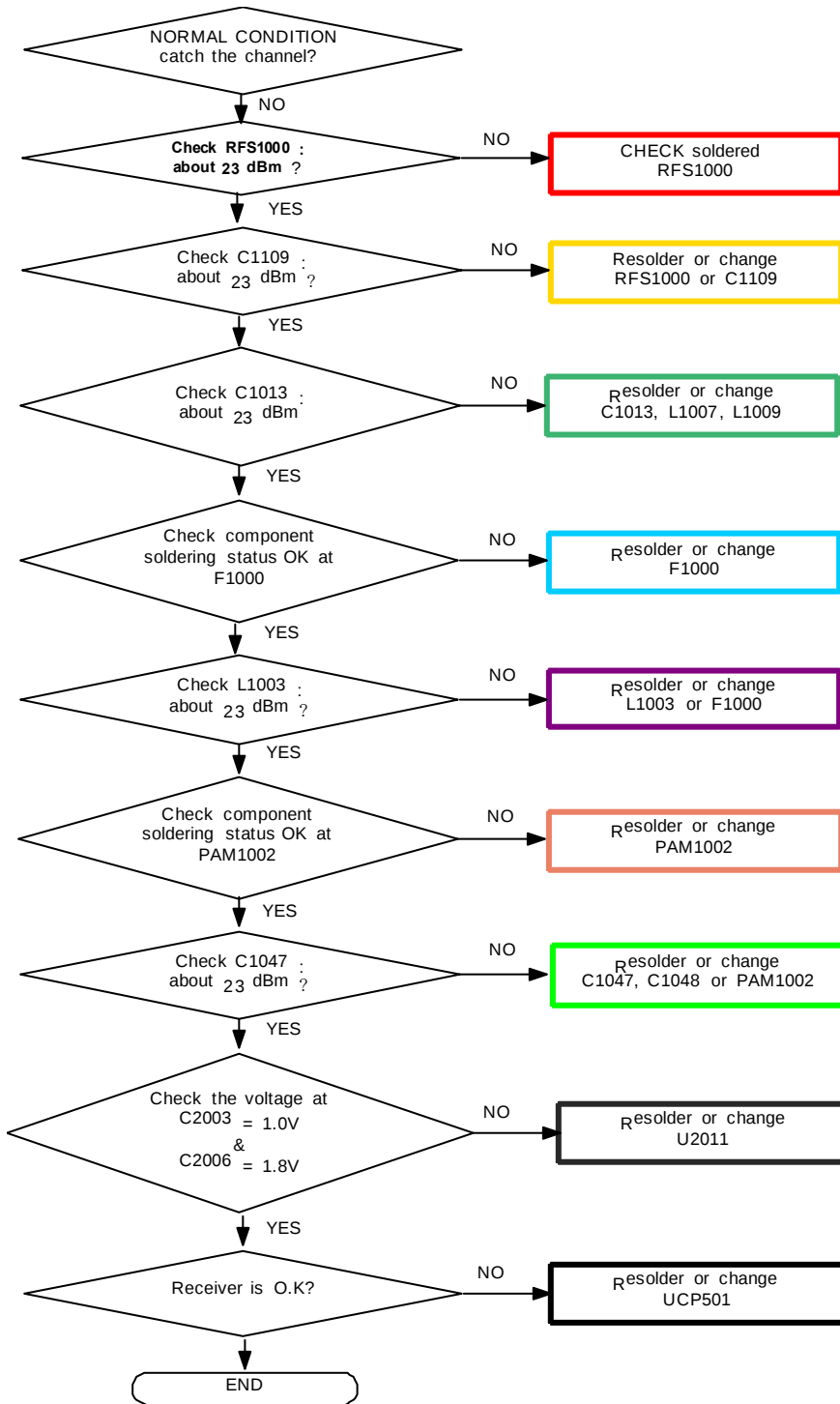
8. Level 3 Repair

8-3-31. BC1,LTE B1/2/3/4/25/34/39, WCDMA 1/2/3/4 TX



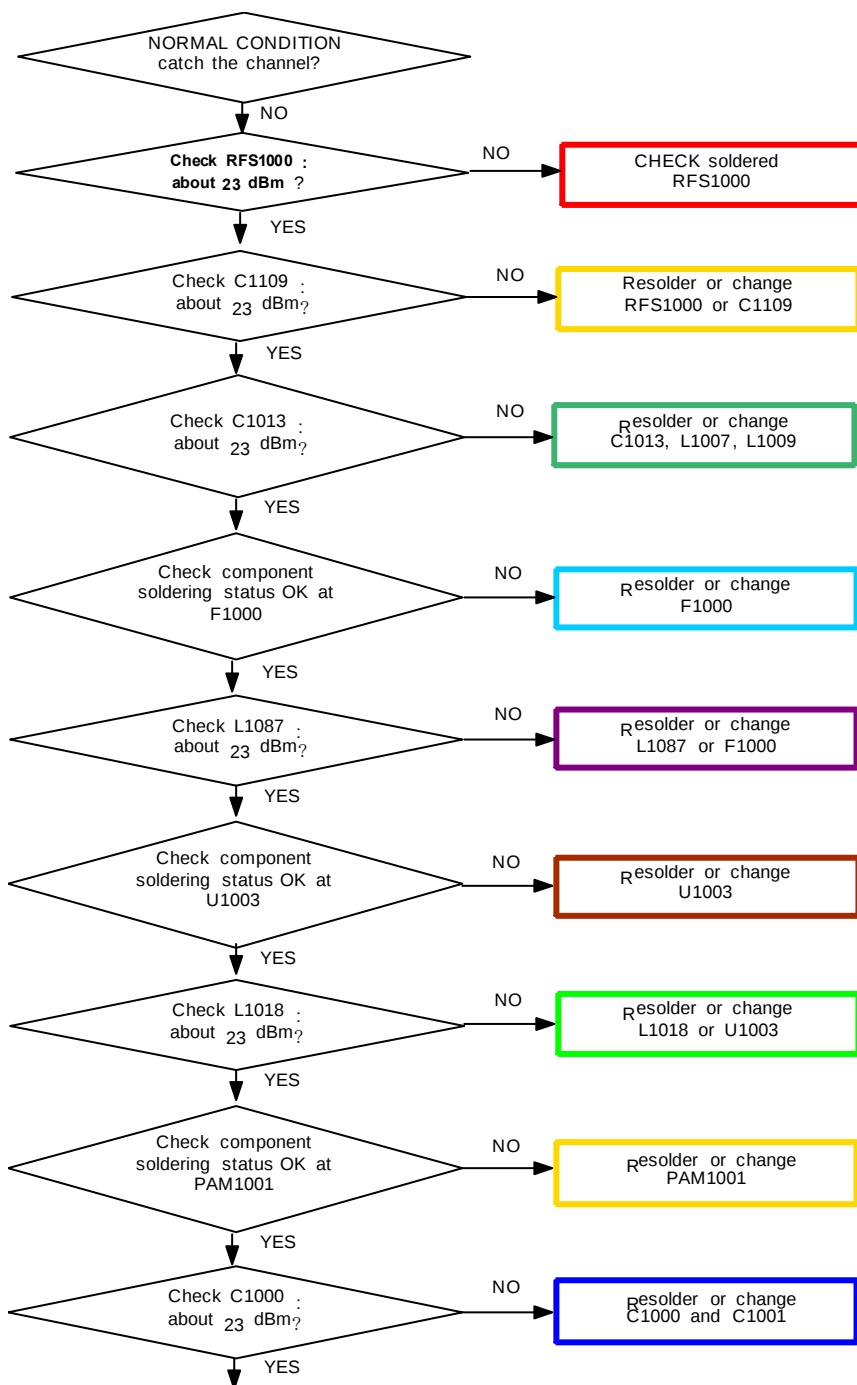
8. Level 3 Repair

8-3-32. GSM1800/1900 TX

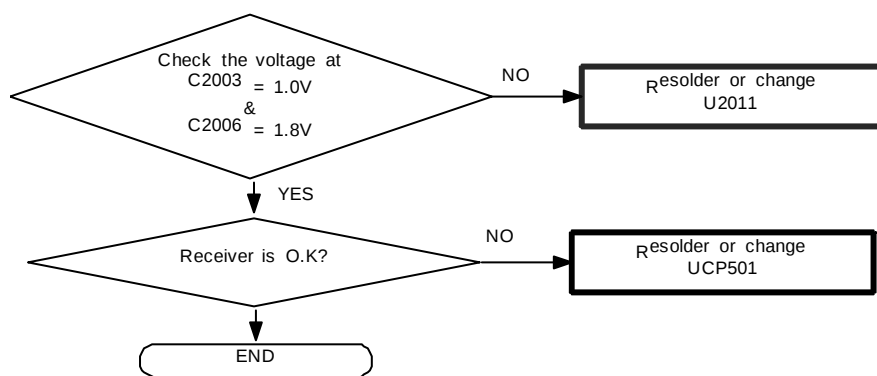


8. Level 3 Repair

8-3-33. GSM 850/900 TX

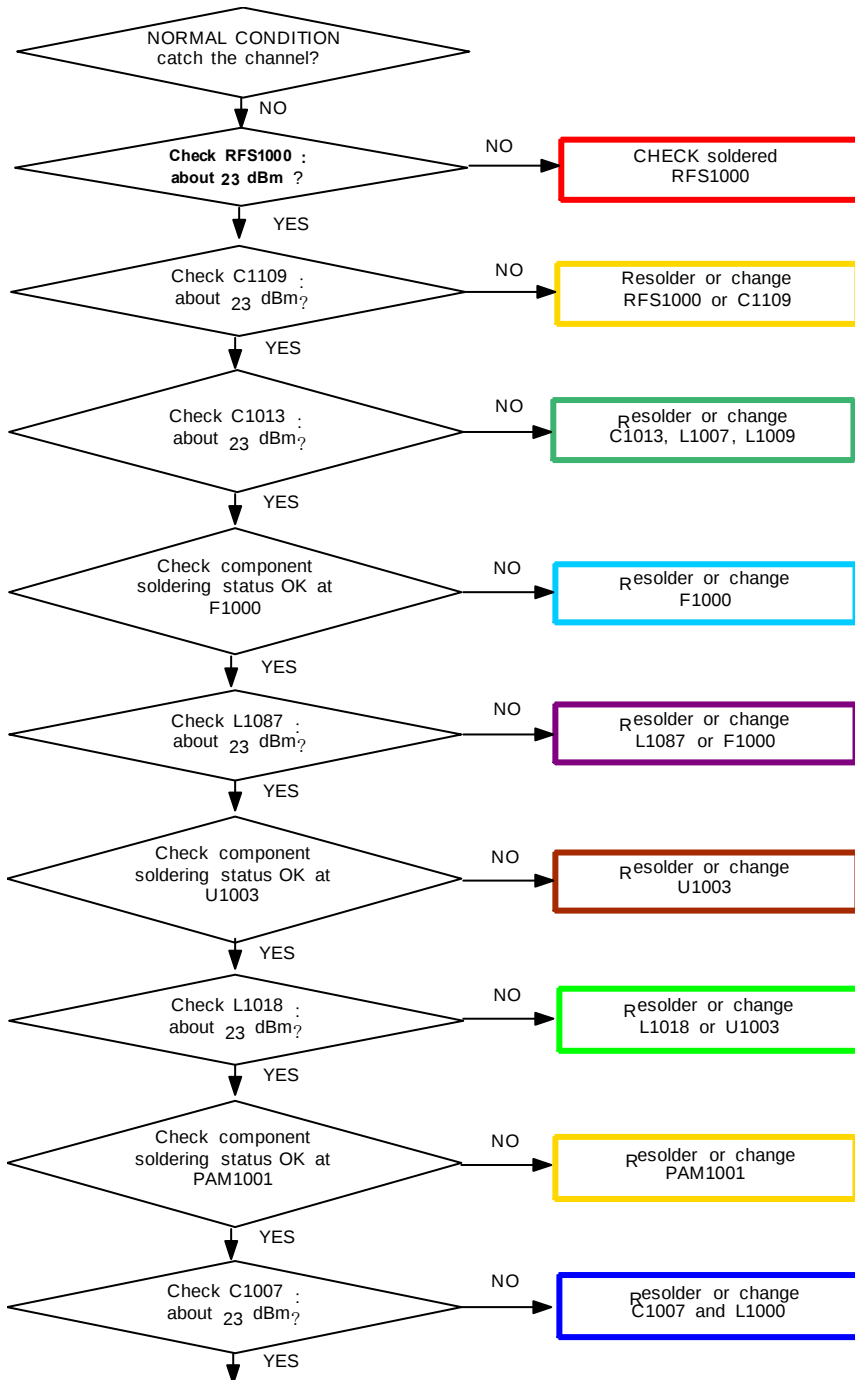


8. Level 3 Repair

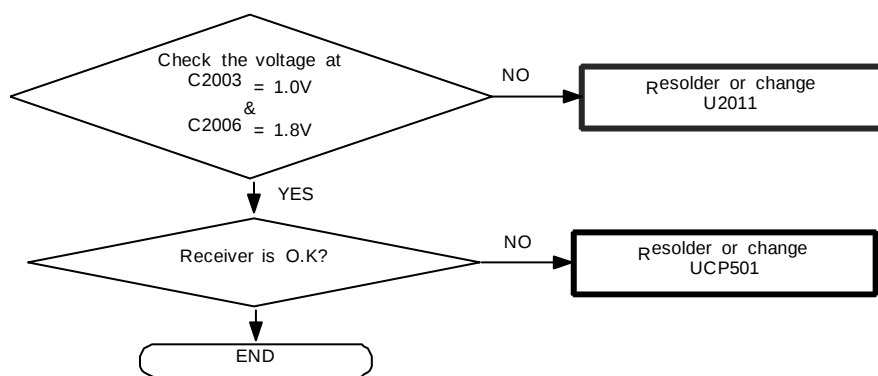


8. Level 3 Repair

8-3-34. LTE B12/17 TX

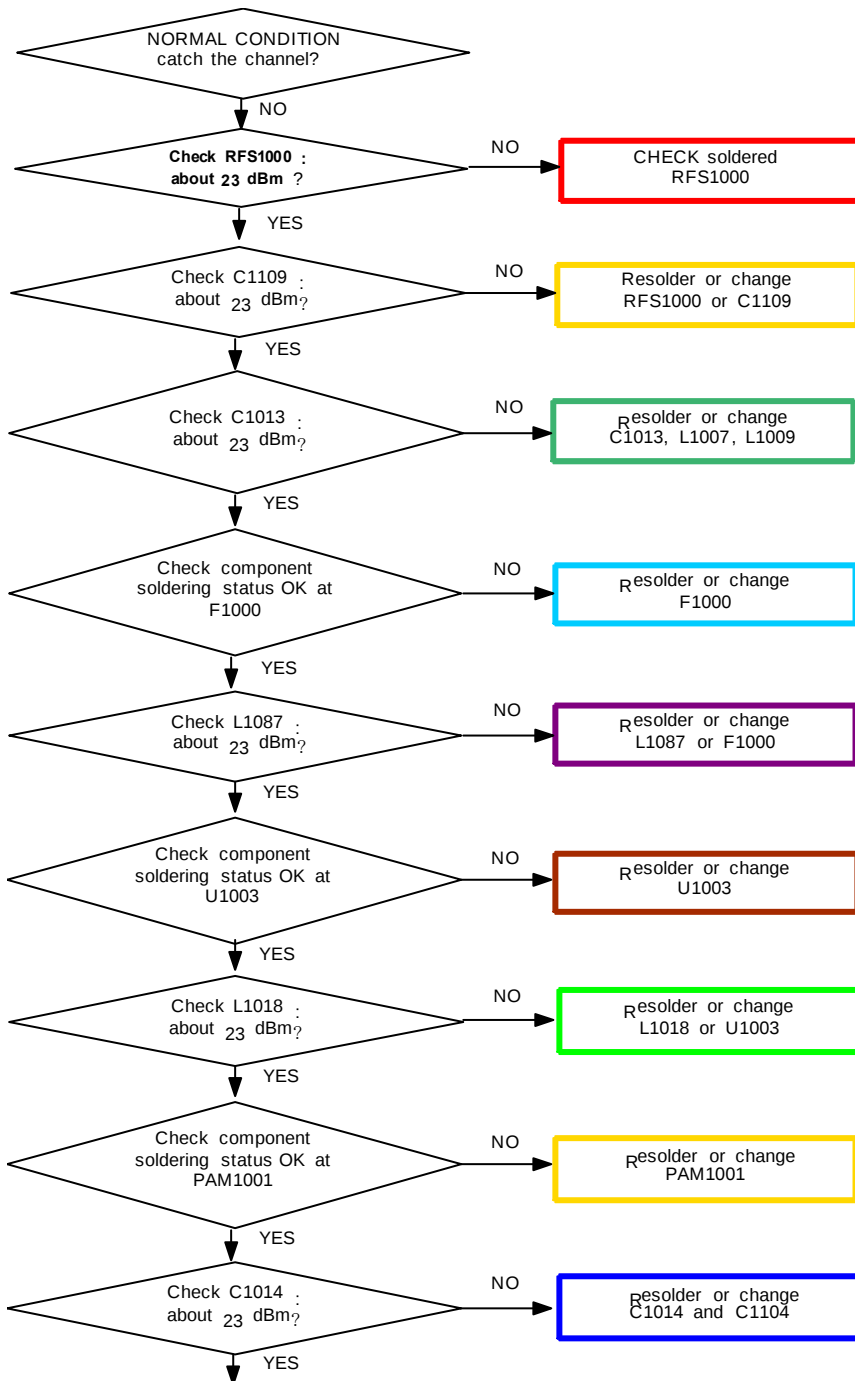


8. Level 3 Repair

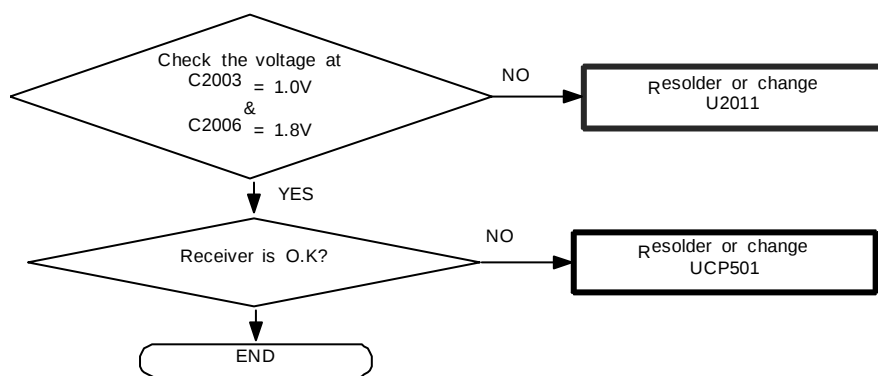


8. Level 3 Repair

8-3-35. BC0/10, LTE5/8/20/26, WCDMA5/8 TX

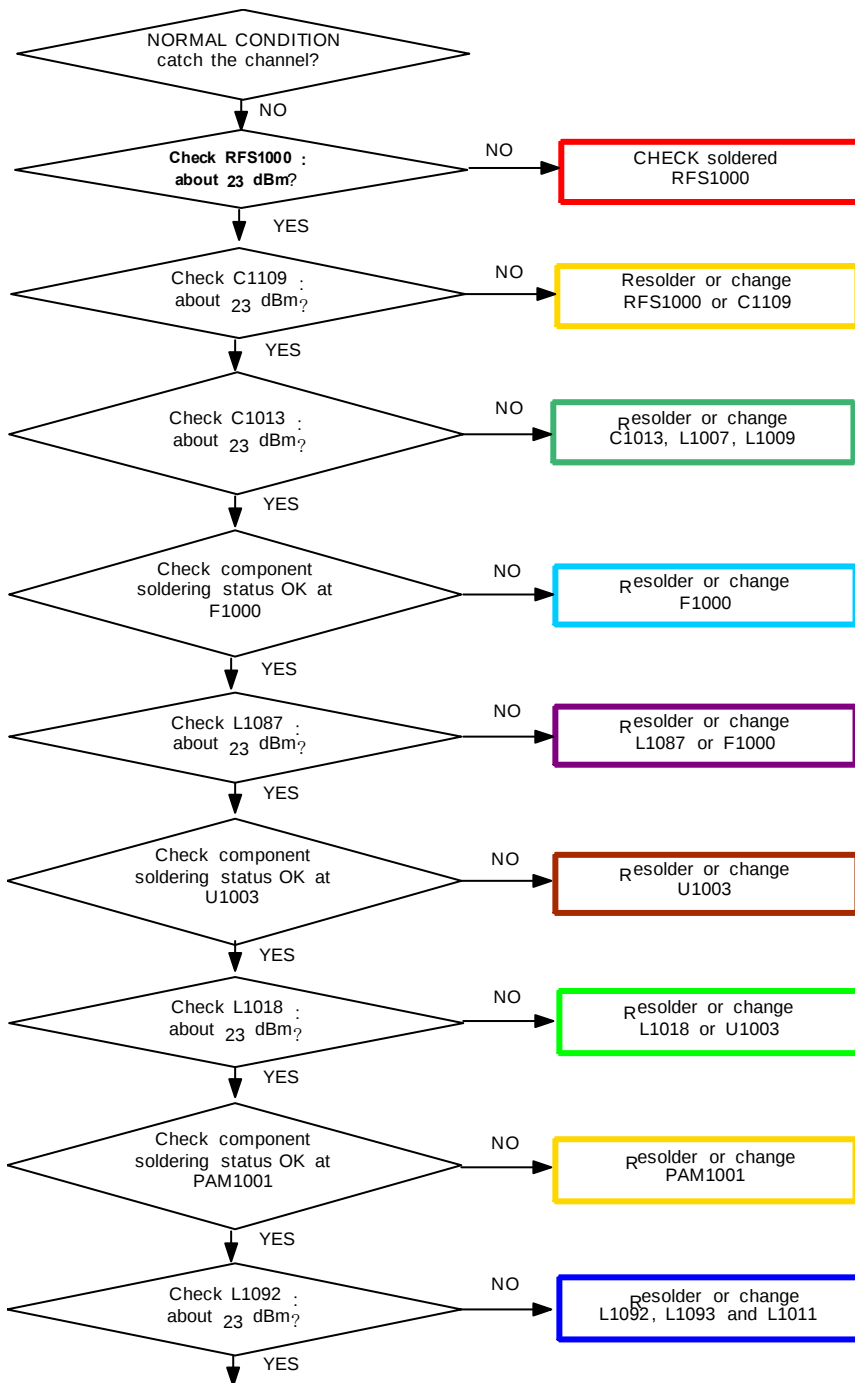


8. Level 3 Repair

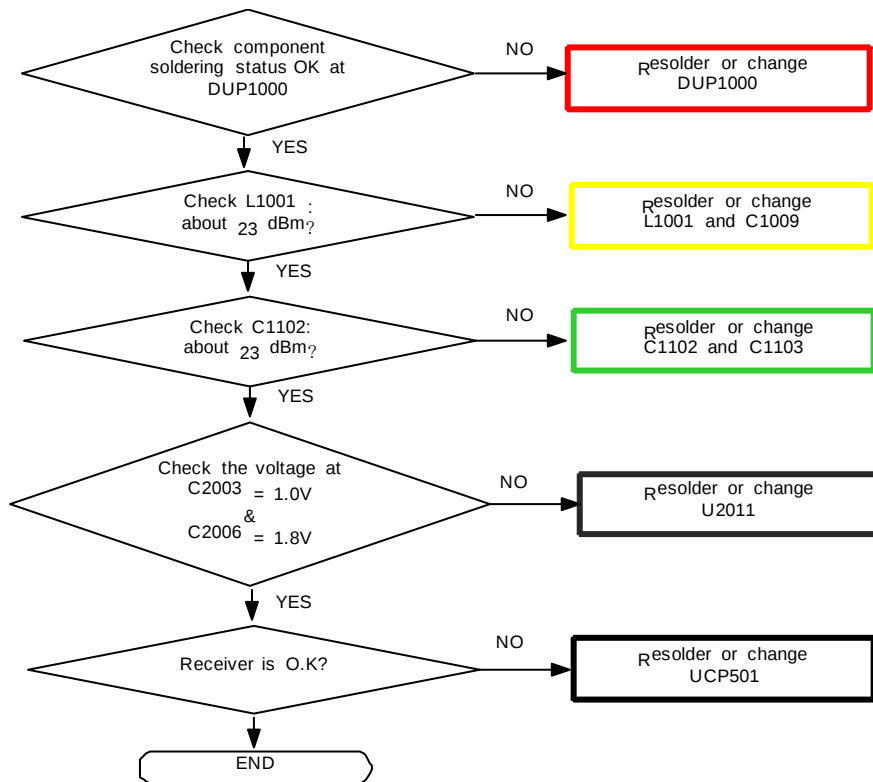


8. Level 3 Repair

8-3-36. LTE B13 TX

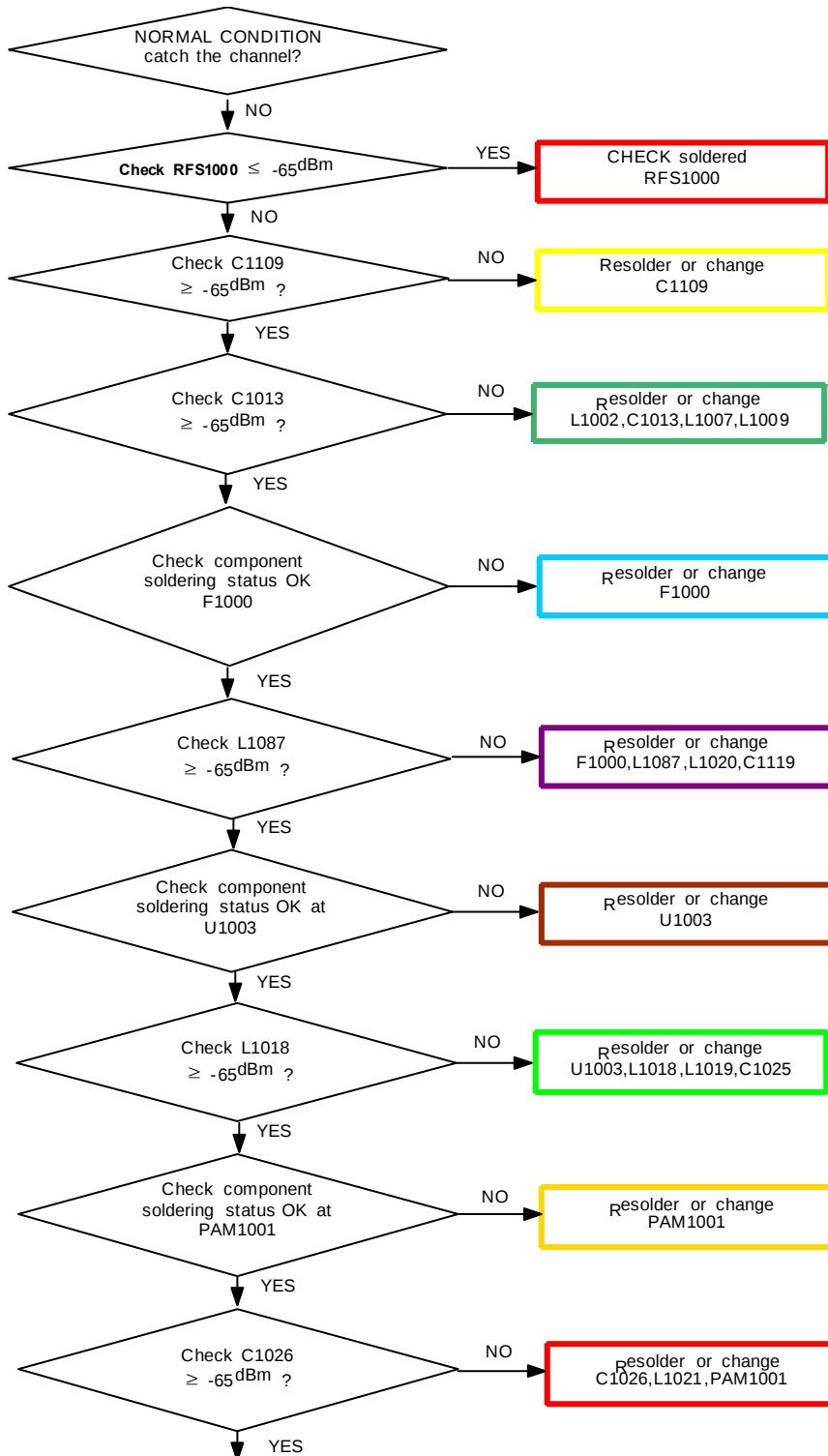


8. Level 3 Repair

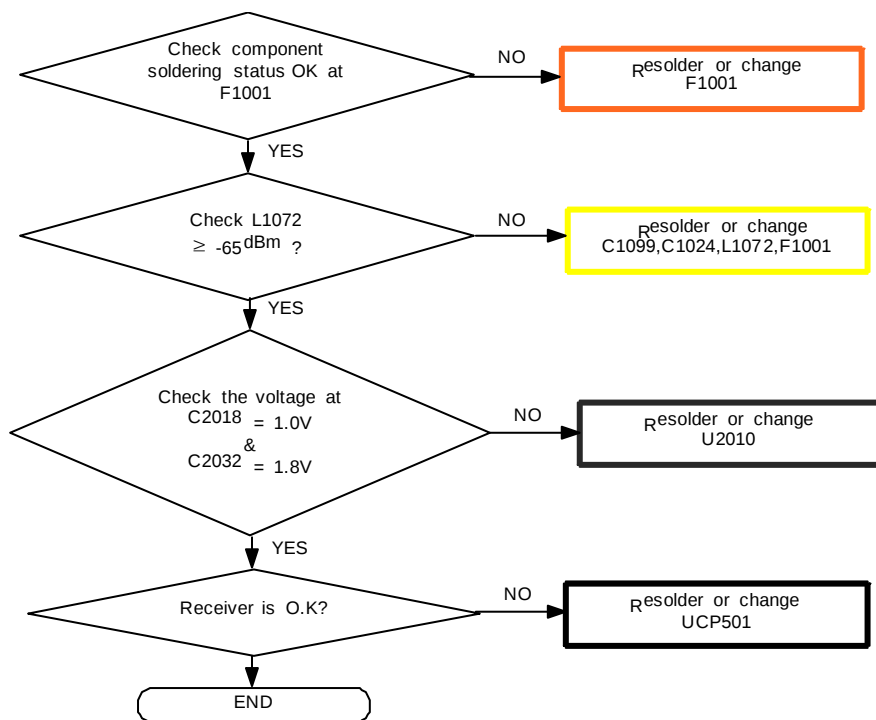


8. Level 3 Repair

8-3-37. G900 RX

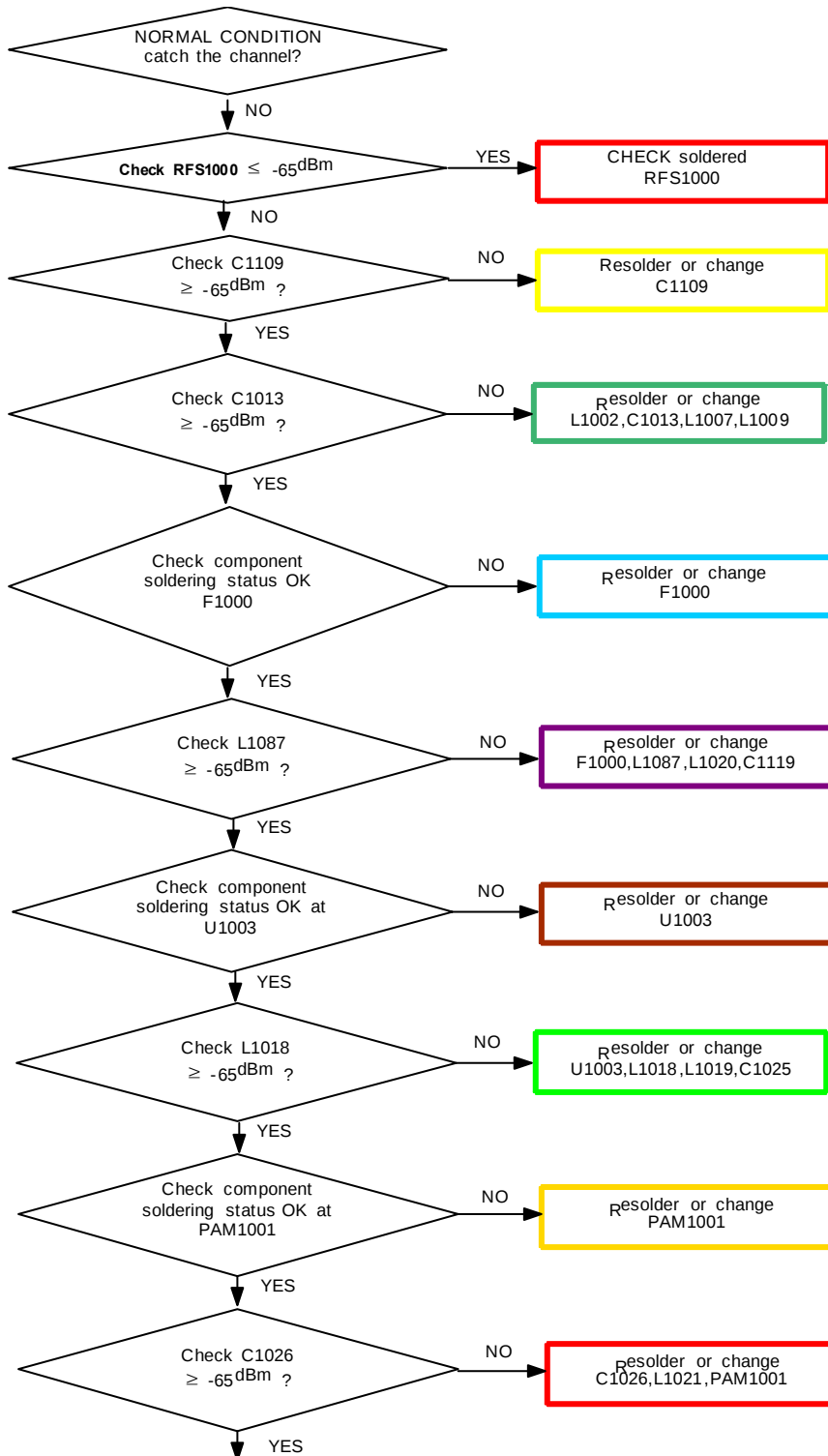


8. Level 3 Repair

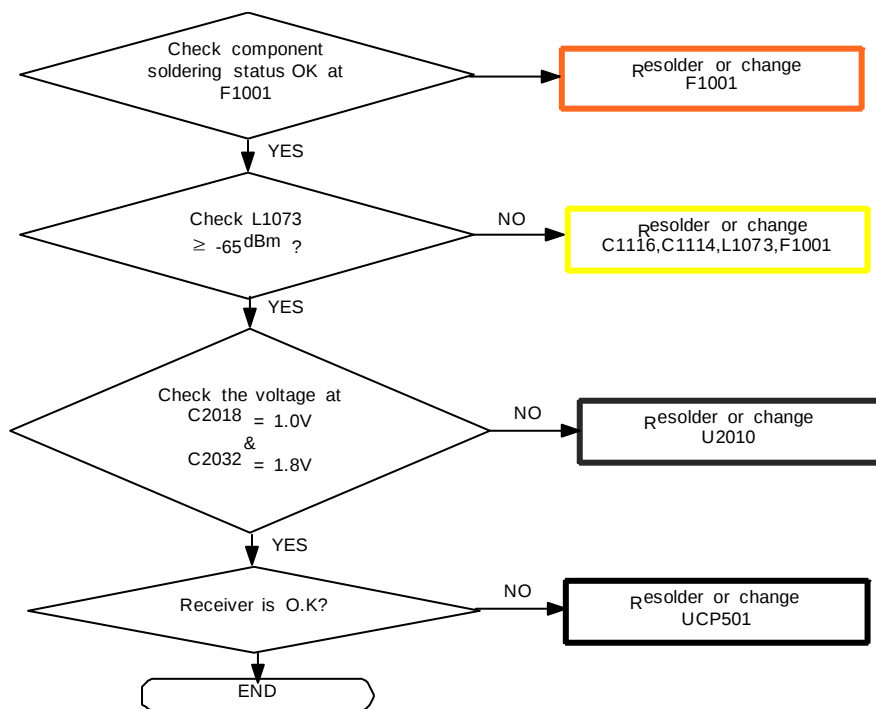


8. Level 3 Repair

8-3-38. G850 RX

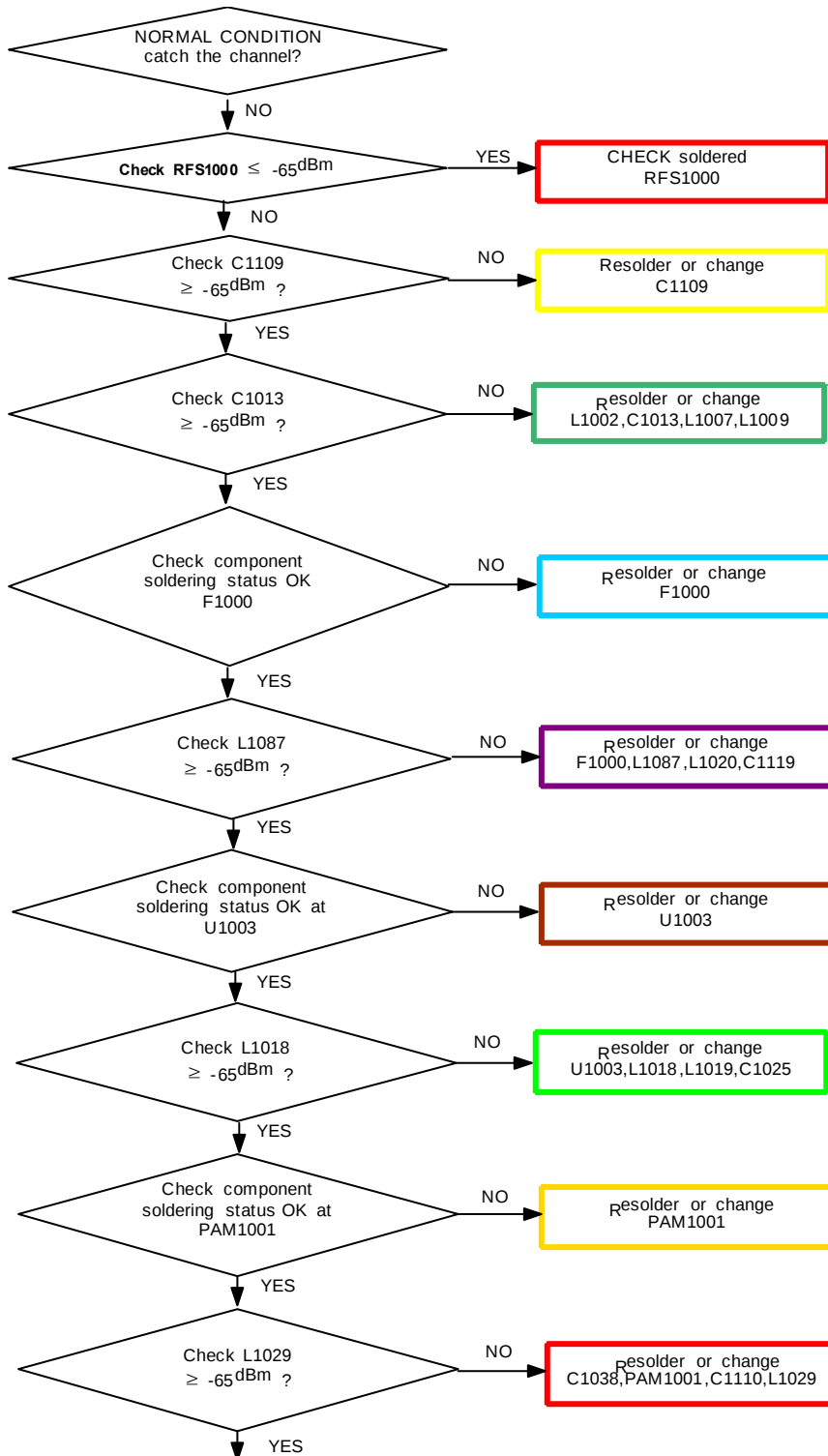


8. Level 3 Repair

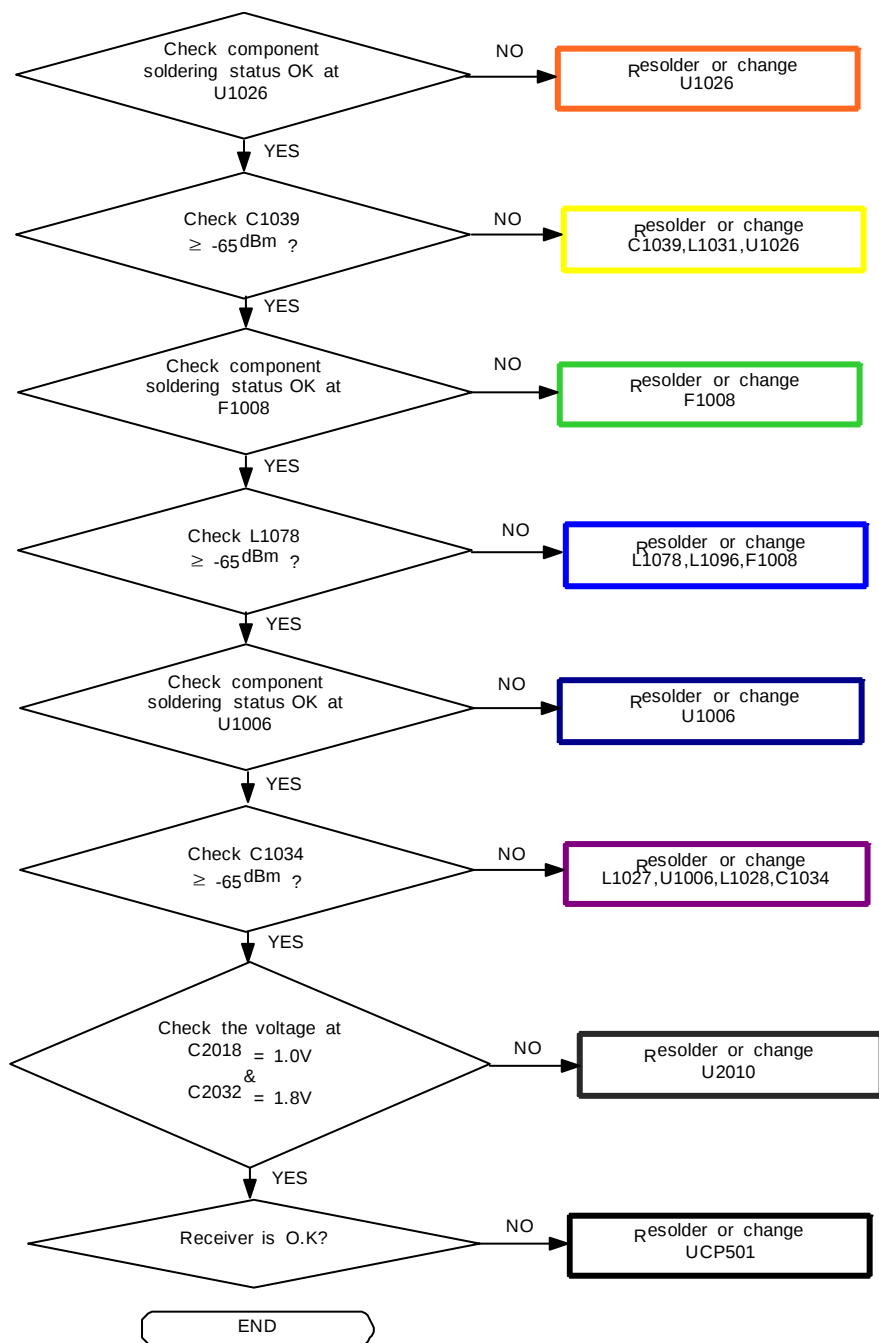


8. Level 3 Repair

8-3-39. LTE B12/17 RX

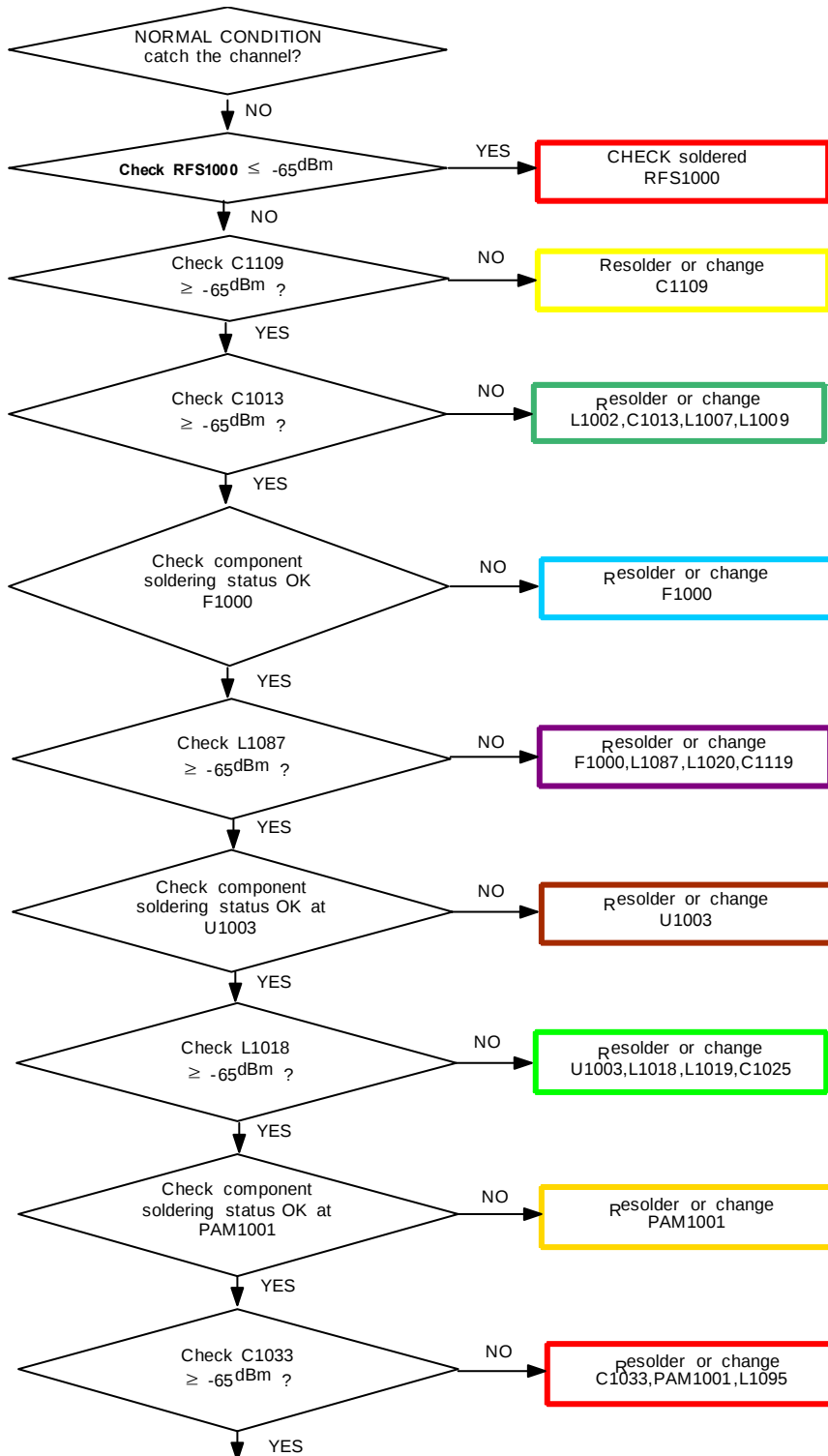


8. Level 3 Repair

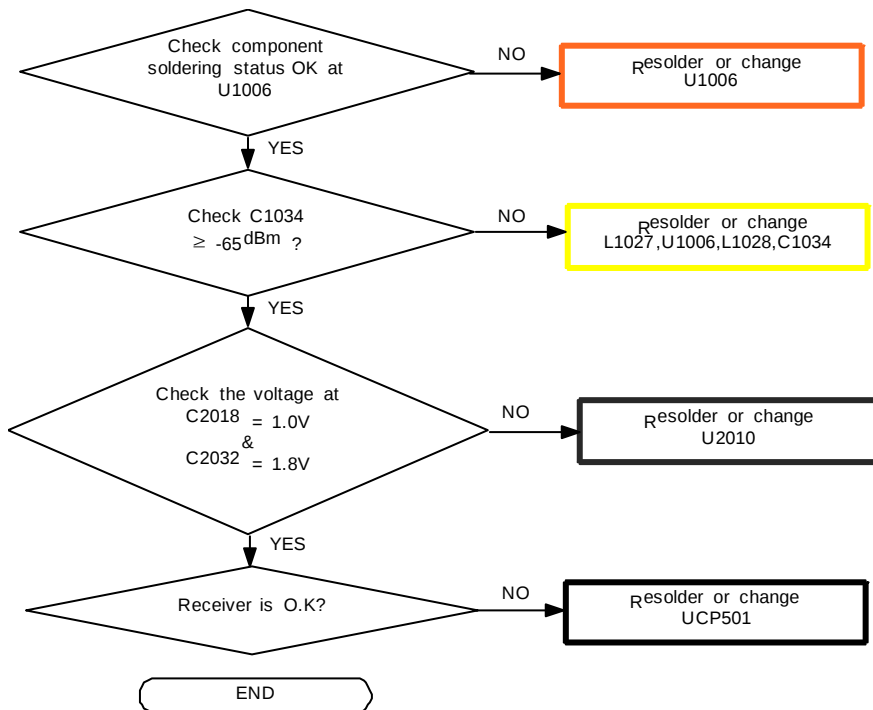


8. Level 3 Repair

8-3-40. LTE B29 RX

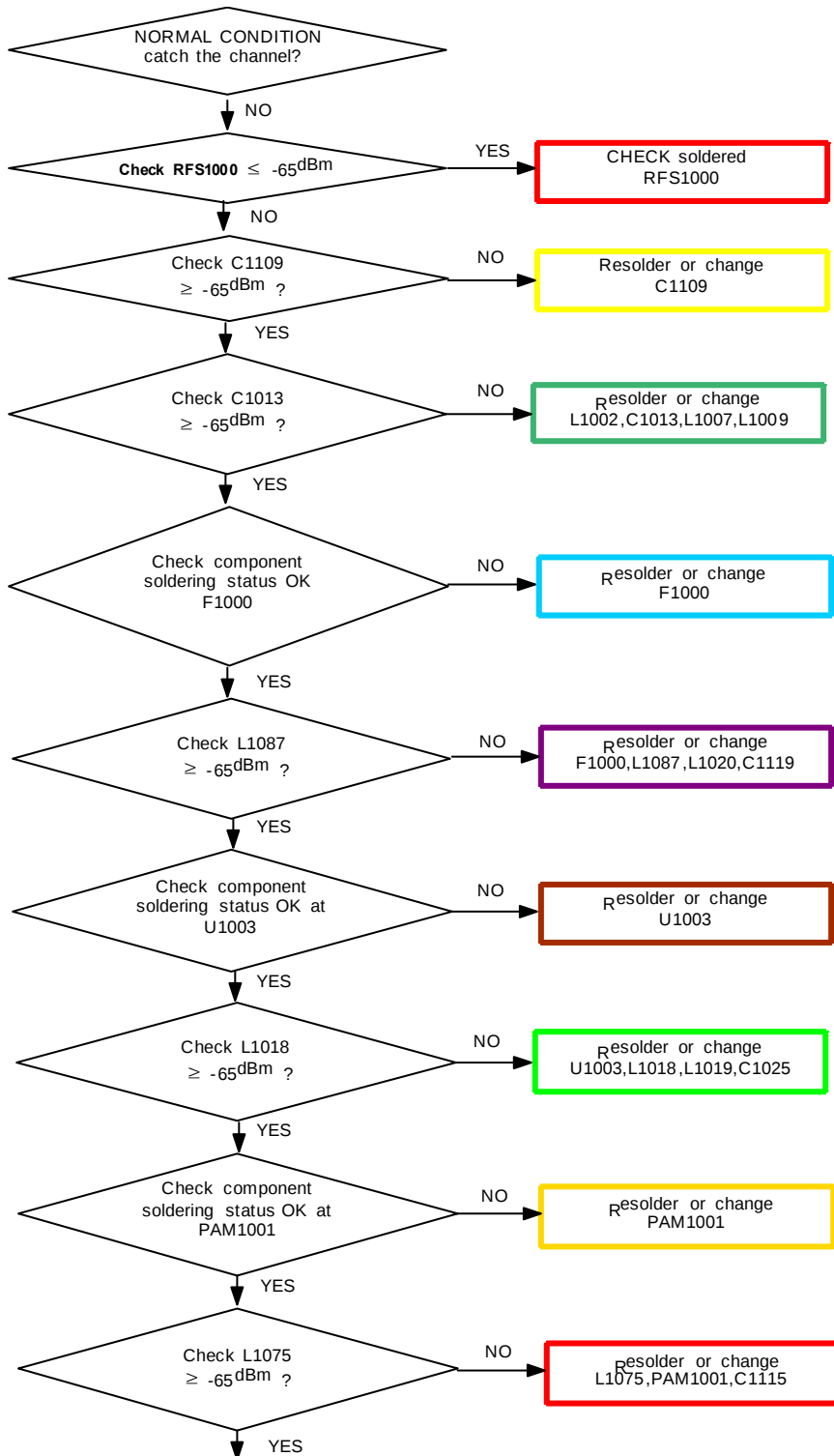


8. Level 3 Repair

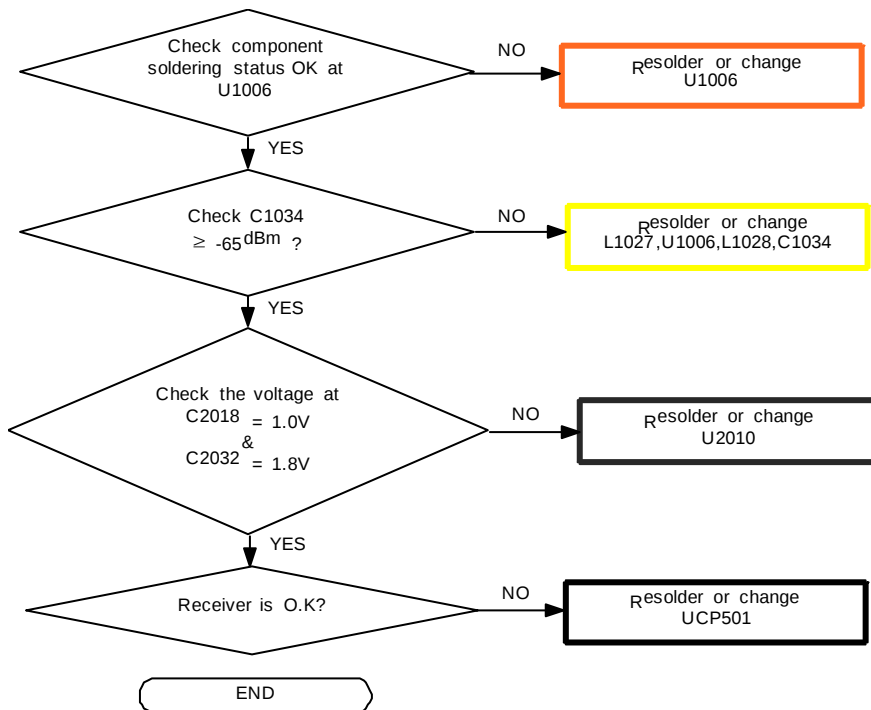


8. Level 3 Repair

8-3-41 LTE B20 RX

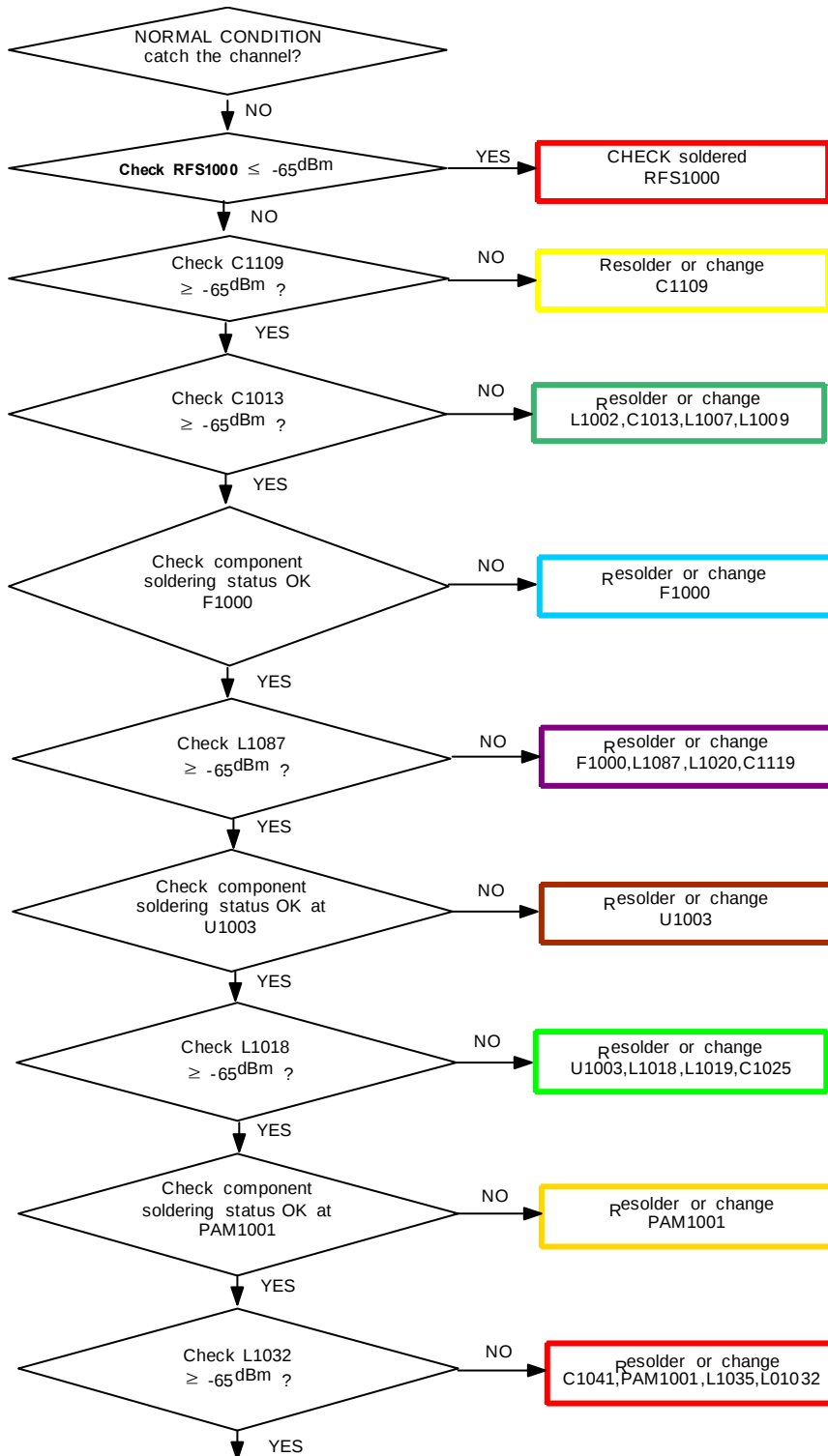


8. Level 3 Repair

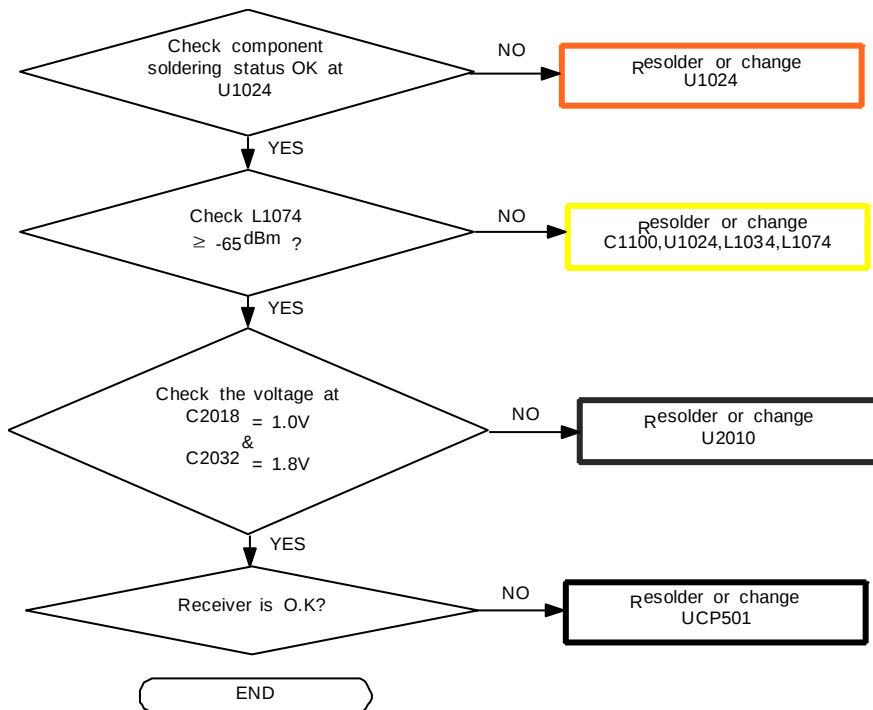


8. Level 3 Repair

8-3-42. BC0/10, LTEB5/26, WCDMA B5 RX

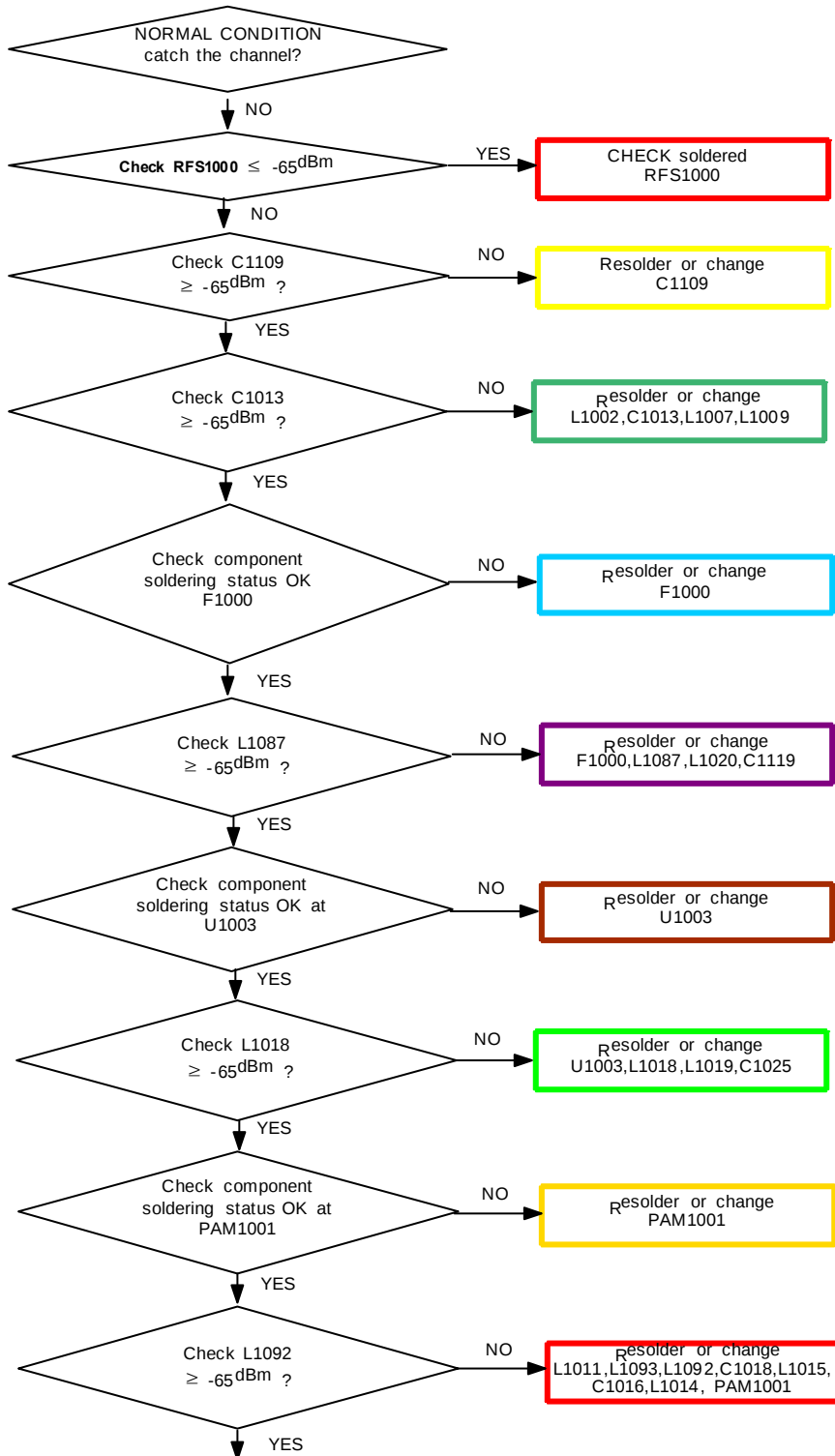


8. Level 3 Repair

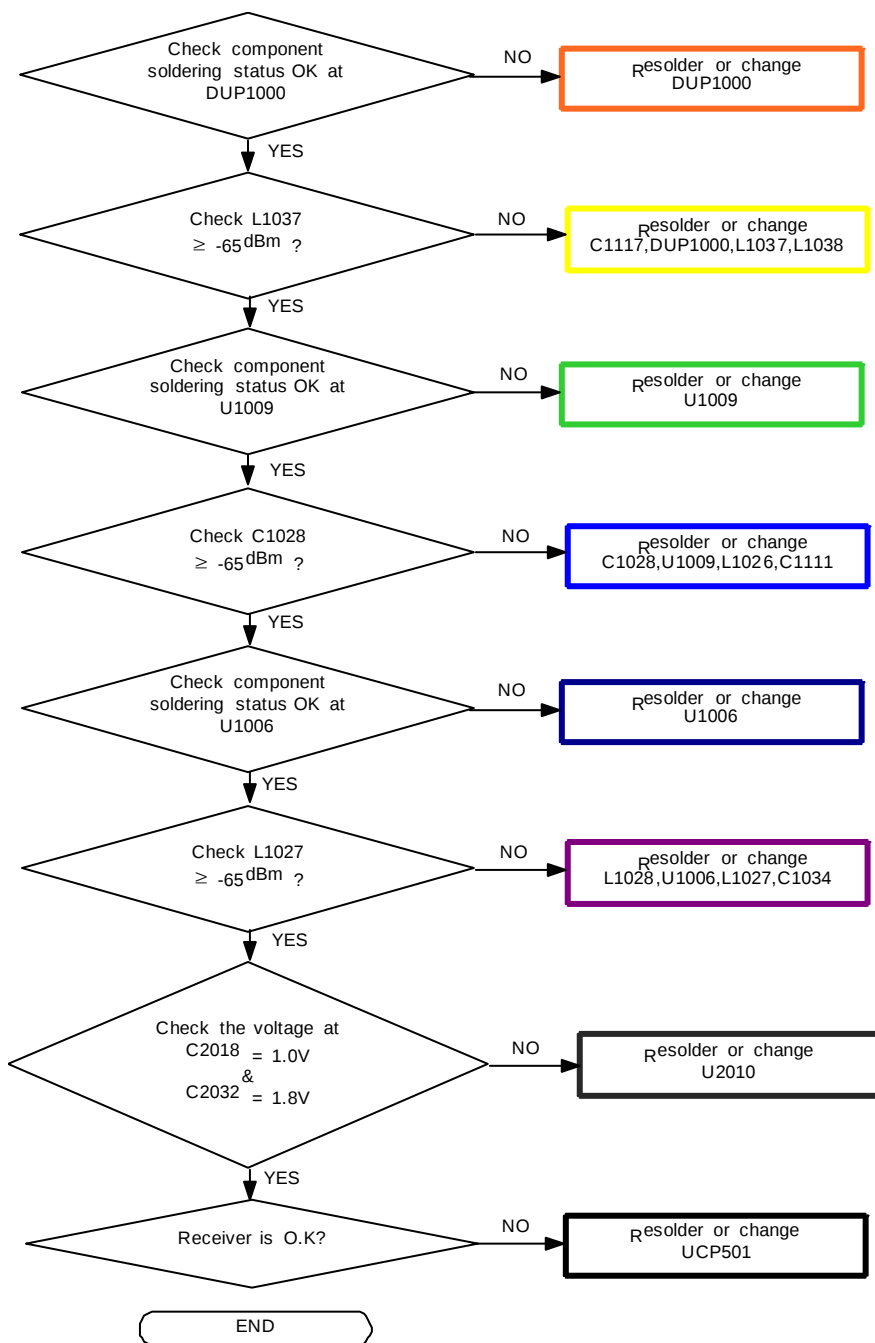


8. Level 3 Repair

8-3-43 LTE B13 RX

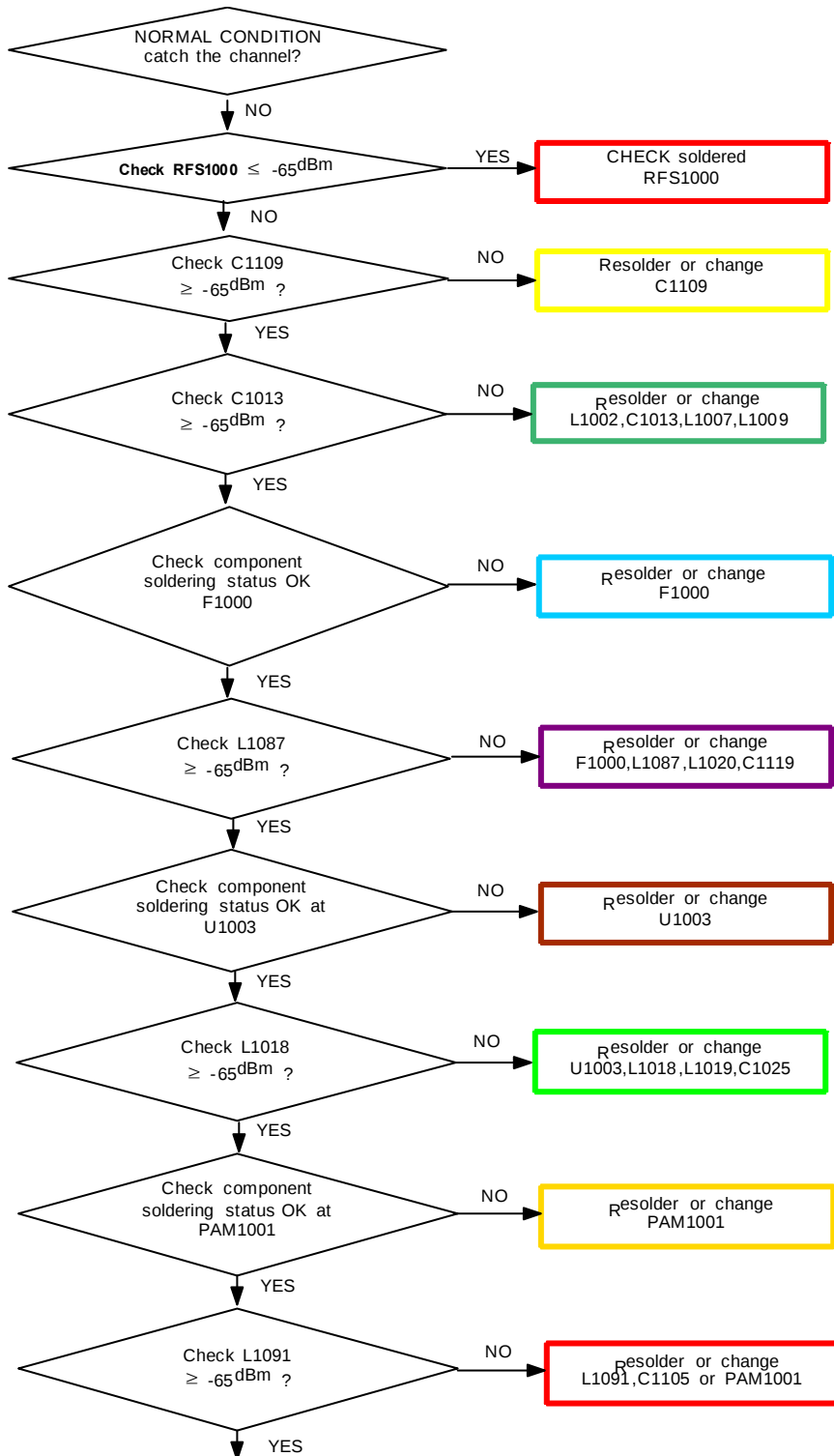


8. Level 3 Repair

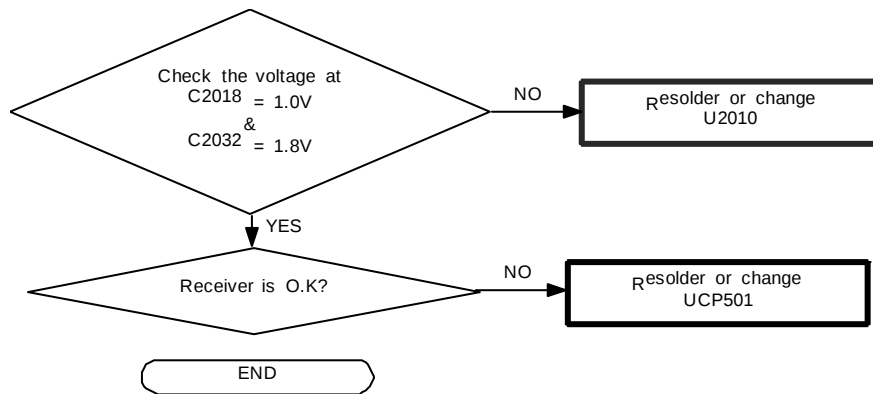


8. Level 3 Repair

8-3-44. LTE B8, WCDMA B8 RX

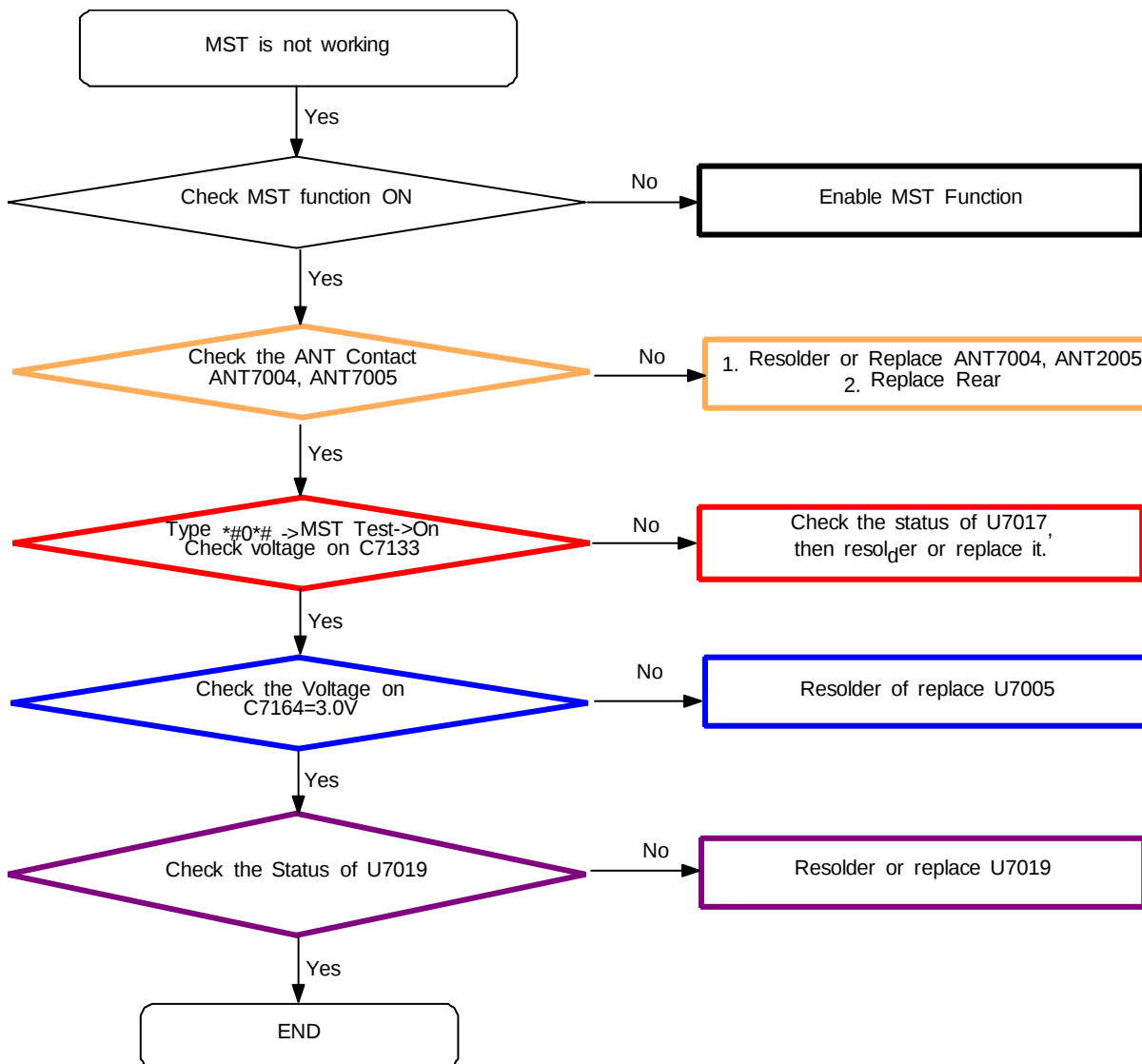


8. Level 3 Repair



8. Level 3 Repair

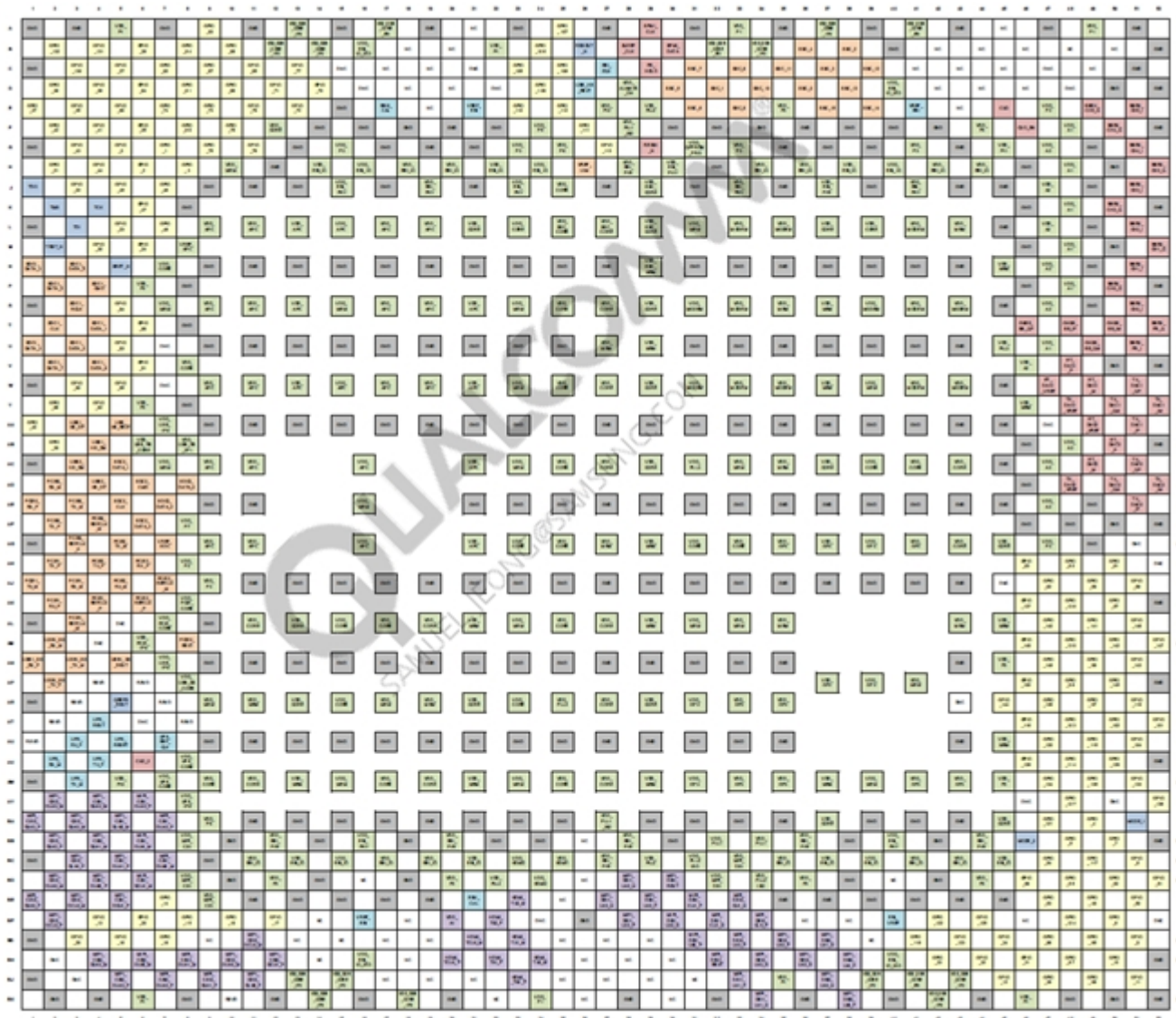
8-3-45. MST



8. Level 3 Repair

8-4. Service Schematics

- NC Point(Top View) UCP5000



Connectivity	Chipset interfaces	GPIOs	Internal functions	Memory support
Multimedia	Ground	DNC, NC, or RSVD	Power	

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