

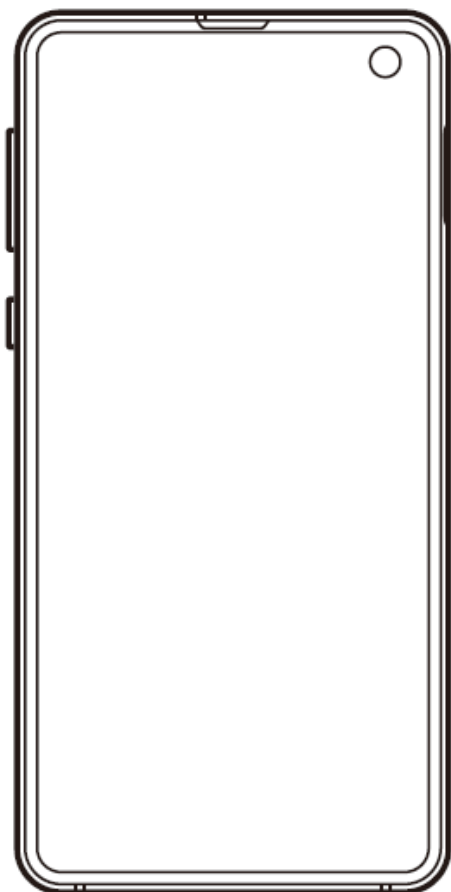
SAMSUNG

Mobile Device
SM-G975F/FC
Common

SERVICE **Manual**

Mobile Device

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1. Safety Precautions

1-1. Repair Precaution

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

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

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

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

We recommend 22-gauge twisted copper wire.

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

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

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

1. Safety Precautions

1-2. ESD(Electrostatically Sensitive Devices) Precaution

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

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

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

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

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

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

2. Specification

2-1. GSM General Specification

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

2. Specification

2-2. GSM Tx Power Class

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

2. Specification

2-3. WCDMA General Specification

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

2. Specification

2-4. LTE General Specification

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

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

2. Specification

Item	LTE Band20	LTE Band25	LTE Band26	LTE Band28	LTE Band32
Freq. Band[MHz] Uplink/Downlink	832~862 791~821	1850~1915 1930~1995	814~849 859~894	703~748 758~803	N/A 1452~1496
ARFCN range	UL:24150~24449 DL:6150~6449	UL:26040~26689 DL:8040~8689	UL:26690~27039 DL:8690~9039	UL:27210~27659 DL:9210~9659	DL:9920~10359
Tx/Rx spacing (MHz)	-41	80	45	55	N/A
Channel Bandwidth (MHz)	5/10/15/20	1.4/3/5/10/15/20	1.4/3/5/10/15	3/5/10/15/20	5/10/15/20
Modulation	QPSK,16/64QAM 256QAM(DL only)	QPSK,16/64QAM 256QAM(DL only)	QPSK,16/64QAM 256QAM(DL only)	QPSK,16/64QAM 256QAM(DL only)	QPSK,16/64QAM 256QAM(DL only)
MS Power (dBm)	25.7~-39(↓)	25.7~-39(↓)	25.7~-39(↓)	25.7~-39(↓)	25.7~-39(↓)
Sensitivity (QPSK, BW 10MHz)(dBm))	-93.3	-92.8	-93.8	-94.8	-96.3

Item	LTE Band38	LTE Band39	LTE Band40	LTE Band41	LTE Band66
Freq. Band[MHz] Uplink/Downlink	2570~2620	1880~1920	2300~2400	2496~2690	1710~1780 2110~2200
ARFCN range	UL/DL:37750 ~ 38249	UL/DL:38250 ~ 38649	UL/DL:38650 ~ 39649	UL/DL:39650 ~ 41589	UL:131972 ~ 132671 DL:66436 ~ 67335
Tx/Rx spacing (MHz)	0	0	0	0	400
Channel Bandwidth (MHz)	5/10/15/20	5/10/15/20	5/10/15/20	5/10/15/20	1.4/3/5/10/15/20
Modulation	QPSK,16/64QAM 256QAM(DL only)	QPSK,16/64QAM 256QAM(DL only)	QPSK,16/64QAM 256QAM(DL only)	QPSK,16/64QAM 256QAM(DL only)	QPSK,16/64QAM 256QAM(DL only)
MS Power (dBm)	25.7~-39(↓)	25.7~-39(↓)	25.7~-39(↓)	25.7~-39(↓)	25.7~-39(↓)
Sensitivity (QPSK, BW 10MHz) (dBm)	-96.3	-96.3	-96.3	-94.3	-95.8

2. Specification

2-5. TDSCDMA General Specification

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

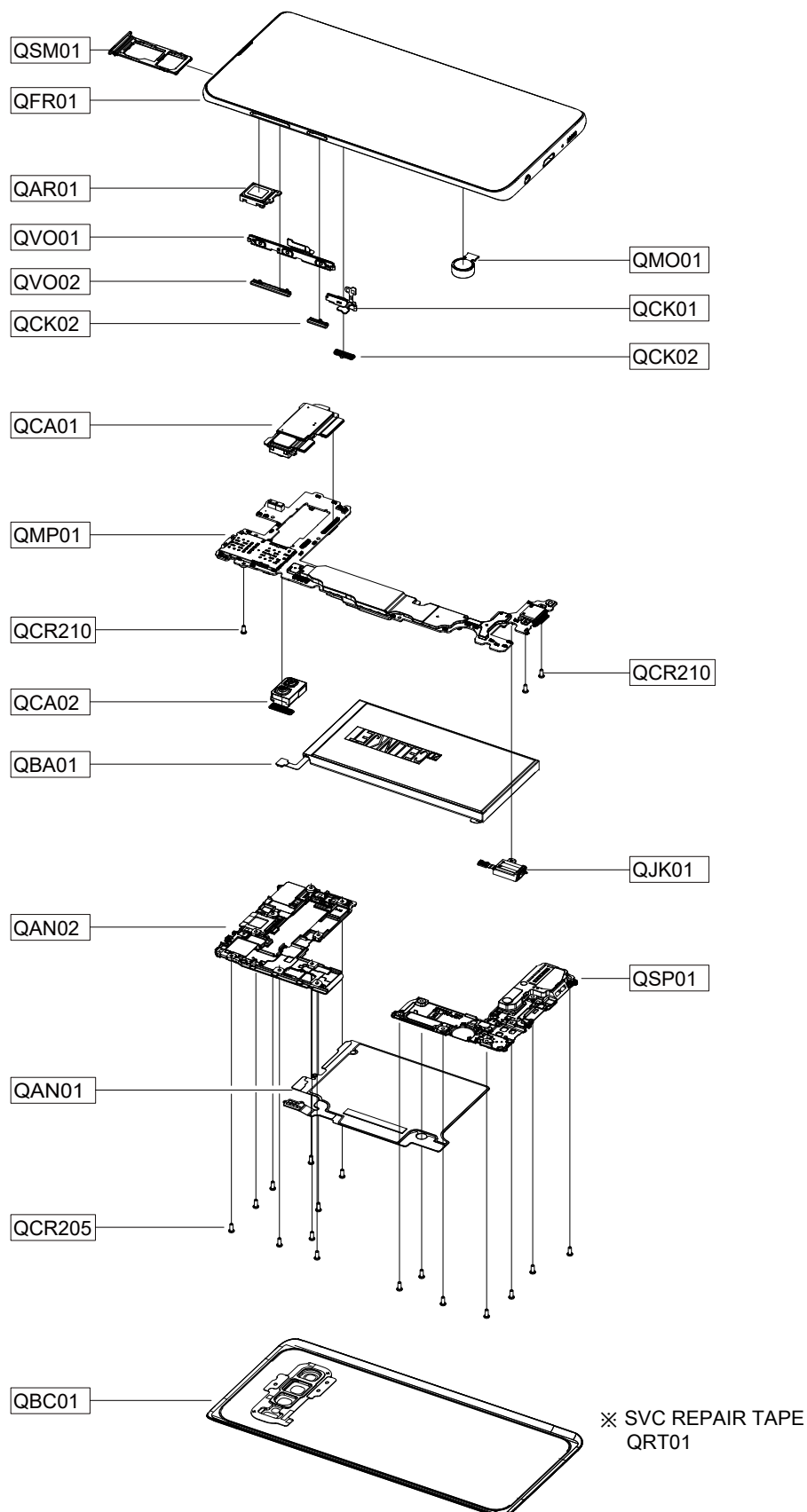
3. Product Function

Main Function

Item	Description
OS	Android V9.0
RF	GSM850 / GSM900 / DCS1800 / PCS1900 WCDMA: B1/ B2/ B4/ B5/ B8 TDSCDMA : B34/ B39 LTE: B1/ B2/ B3/ B4/ B5/ B7/ B8/ B12/ B13/ B17/ B18/ B19/ B20/ B25/ B26/ B28/ B32/ B38/ B39/ B40/ B41/ B66
Battery	4100mAh
Base Band	Up to 2.7Ghz / mid 2.3 / lit 1.9
Other RF	A-GPS, Glonass, BEIDOU, Galileo, BT5.0, USB 3.1 Type-C, WIFI 802.11 a/b/g/n/ac/ax MIMO, NFC,MST
Camera	Triple Camera (Wide : 12M Dual A/F, OIS, F1.5-2.4 & Ultra Wide : 16M F/F, F2.2 & Tele : 12M, OIS, F2.4) with LED Flash, 10MP A/F (Front), 8MP (Depth)
Display	6.4", WQHD+, 1440x3040
SM-G975F RAM	8GB
SM-G975F Storage	128GB
SM-G975FC RAM	8GB/12GB
SM-G975FC Storage	512GB/1TB
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: 2.8pi, 1.2m(Type C/ USB-A) Ear phone: 3.5pi, 4pin

4. Exploded View and Parts List

4-1. Cellular phone Exploded View



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5. MAIN Electrical Parts List

[SM-G975F]

Parts Code	Design LOC	Description
0401-001110	ZD8009	DIODE-SWITCHING
0404-001250	D8000,D9000	DIODE-SCHOTTKY
0406-001561	ZD9012	DIODE-TVS
0406-001709	ZD9009	DIODE-TVS
0406-001729	ZD8007,ZD8008	DIODE-TVS
0406-001781	ZD9007,ZD9011	DIODE-TVS
0406-001787	V9000,V9001,ZD11008	DIODE-TVS
0406-001787	ZD11019,ZD9000	DIODE-TVS
0406-001787	ZD9001	DIODE-TVS
0406-001804	ZD11006,ZD11007	DIODE-TVS
0406-001804	ZD11009,ZD11010	DIODE-TVS
0406-001804	ZD11017,ZD11018	DIODE-TVS
0406-001804	ZD11020,ZD11021	DIODE-TVS
0406-001805	ZD8003	DIODE-TVS
0406-001809	ZD11011,ZD11012	DIODE-TVS
0406-001826	ZD11002,ZD11022	DIODE-TVS
0601-003707	LED10000	LED
0801-003639	U8001	IC
0903-002233	U10003	IC
1001-001755	U9001	IC
1001-001975	U1003	IC
1001-002045	U8025	IC
1001-002075	F2001,U1002,U1004	IC
1009-001076	U11001,U5009	IC
1107-002573	UME4000	IC
1201-003735	U5007	IC
1201-004114	PAM1001	IC
1201-004157	PAM1000	IC
1201-004178	U9003,ZD9003	IC
1201-004210	U1005	IC
1202-001120	U12001	IC
1203-008472	U10002	IC
1203-008729	U4000	IC
1203-008802	U8008	IC
1203-008811	U5008	IC
1203-008867	U12002,U5006,U8035	IC
1203-009032	U12000	IC

5. MAIN Electrical Parts List

1203-009035	U10001	IC
1203-009080	U9002	IC
1203-009156	U8031	IC
1203-009168	U8003	IC
1203-009187	U8015	IC
1203-009191	U12003	IC
1204-003761	L1071	IC
1204-003773	U1001	IC
1205-005217	U10004	IC
1205-005729	U9000	IC
1205-005871	U5014	IC
1205-005880	U5002	IC
1205-006032	U3000	IC
1205-006044	UCP5000	IC
1209-002513	U5013	IC
1209-002558	U5011	IC
1209-002567	U5012	IC
1209-002578	U5010	IC
1209-002607	U11000	IC
1209-002608	U5004	IC
1209-002619	U5005	IC
1404-001724	TH11000,TH5000	THERMISTOR
1404-001724	TH6000,TH8000,TH8001	THERMISTOR
1404-001724	TH8002,V4000	THERMISTOR
1405-001395	V11003,V11010,V11011	VARISTOR
1405-001395	V11012,V11013,V11014	VARISTOR
1405-001395	V11018,V11019,V11020	VARISTOR
1405-001395	V11021,V2001,V2004	VARISTOR
1405-001403	V11024,V2003	VARISTOR
1405-001404	V11000,V11001,V11009	VARISTOR
1405-001404	V11015,V11026,V11027	VARISTOR
1405-001404	V11029,V2010,V2011	VARISTOR
1405-001404	V5012	VARISTOR
1405-001412	V1002	VARISTOR
1405-001415	V1003,V11023,V11025	VARISTOR
1405-001415	V11030,V11031,V2002	VARISTOR
1405-001415	V2008,V2009,V5005	VARISTOR
1405-001415	V5006	VARISTOR
1405-001420	R1003,V11002,V11004	VARISTOR

5. MAIN Electrical Parts List

1405-001420	V11005,V11008,V11022	VARISTOR
1405-001420	V11028,V2000,V5002	VARISTOR
1405-001420	V5003,V5004	VARISTOR
1405-001422	V2007	VARISTOR
1405-001425	V1001	VARISTOR
1405-001428	V11006,V11007,V11017	VARISTOR
1405-001441	V5007	VARISTOR
1405-001450	V1000	VARISTOR
2007-000172	R5050	R-CHIP
2007-001284	R11011,R11013,R11014	R-CHIP
2007-001284	R11016	R-CHIP
2007-007100	R11009	R-CHIP
2007-007193	R9023,R9024	R-CHIP
2007-007310	R6001,R6031,R6078	R-CHIP
2007-007314	R5024,R5025	R-CHIP
2007-007698	R8020	R-CHIP
2007-007741	R10021,R4036,R5022	R-CHIP
2007-007741	R5041,R8021,R8032	R-CHIP
2007-007741	R8033,R9000,R9026	R-CHIP
2007-007942	R6043	R-CHIP
2007-007946	R6045	R-CHIP
2007-008043	R3000	R-CHIP
2007-008052	R10020,R12010	R-CHIP
2007-008211	R12004,R8041	R-CHIP
2007-008294	R9018	R-CHIP
2007-008296	R10002	R-CHIP
2007-008403	R8039	R-CHIP
2007-008419	R11008,R4028	R-CHIP
2007-008486	R10001,R8036	R-CHIP
2007-008531	R10017,R8010,R8034	R-CHIP
2007-008531	R8035,R9019	R-CHIP
2007-008774	R11010,R11012,R11015	R-CHIP
2007-008774	R11017,R5038,R5039	R-CHIP
2007-008785	R4027	R-CHIP
2007-009111	R5040	R-CHIP
2007-009157	R11006,R4017,R4018	R-CHIP
2007-009157	R5014,R6062,R6063	R-CHIP
2007-009157	R8015,R8016,R8017	R-CHIP
2007-009157	R8029,R8030	R-CHIP

5. MAIN Electrical Parts List

2007-009182	R5001,R8038	R-CHIP
2007-009201	R9007,R9008,R9010	R-CHIP
2007-009201	R9013	R-CHIP
2007-009212	R10009,R10010,R4003	R-CHIP
2007-009212	R4004,R4007,R4009	R-CHIP
2007-009212	R4010,R6023,R6024	R-CHIP
2007-009212	R6060,R6061,R8040	R-CHIP
2007-009212	R9014,R9021	R-CHIP
2007-009233	R8023,R8024	R-CHIP
2007-009314	R12007,R4026	R-CHIP
2007-009408	R12000,R9020	R-CHIP
2007-009805	R5026,R5027	R-CHIP
2007-009866	R10018,R11002,R11003	R-CHIP
2007-009866	R11004,R11005,R8001	R-CHIP
2007-009866	R8031	R-CHIP
2007-009924	R11000,R11001	R-CHIP
2007-009969	R9015	R-CHIP
2007-010202	R8009,R8012,R8013	R-CHIP
2007-010685	R8025,R8026	R-CHIP
2007-011040	R9022,R9025	R-CHIP
2007-011043	R6000	R-CHIP
2007-011378	R4000,R4001,R4008	R-CHIP
2007-011378	R5010,R5011,R6051	R-CHIP
2007-011378	R6053,R6054,R6055	R-CHIP
2007-011378	R6058,R6064,R6065	R-CHIP
2007-011378	R6066,R6067,R6068	R-CHIP
2007-011378	R6070,R6073,R6074	R-CHIP
2007-011378	R6075,R9004	R-CHIP
2007-011532	R9006	R-CHIP
2007-011542	R10003,R12003,R12005	R-CHIP
2007-011546	R6038,R6039,R6040	R-CHIP
2007-011546	R6041,R6079,R6080	R-CHIP
2007-011546	R6081,R6082	R-CHIP
2007-011548	R10004,R3002,R3003	R-CHIP
2007-011548	R3005,R3006,R6044	R-CHIP
2007-011591	R11007,R5004,R5005	R-CHIP
2007-011591	R5006,R5007,R5023	R-CHIP
2007-011591	R6002,R6003,R6006	R-CHIP
2007-011591	R6007,R6008,R6009	R-CHIP

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2007-011591	R6012,R6013,R6014	R-CHIP
2007-011591	R6015,R6021,R6022	R-CHIP
2007-011591	R6025,R6026,R6027	R-CHIP
2007-011591	R6028,R6029,R6030	R-CHIP
2007-011591	R6032,R6033,R6034	R-CHIP
2007-011591	R6035,R6085,R6086	R-CHIP
2007-011591	R8004,R8019	R-CHIP
2007-011594	R10007,R10008,R6010	R-CHIP
2007-011594	R6011,R6019,R6020	R-CHIP
2007-011594	R6036,R6037,R6091	R-CHIP
2007-011594	R6092	R-CHIP
2007-011599	R6042	R-CHIP
2007-011648	C4017	R-CHIP
2007-012197	R8018	R-CHIP
2007-012202	R12006	R-CHIP
2203-000138	C8181,C8183	C-CERAMIC,CHIP
2203-000233	C5067,C5074,C8117	C-CERAMIC,CHIP
2203-000330	C5071	C-CERAMIC,CHIP
2203-000438	C8174	C-CERAMIC,CHIP
2203-000489	C8150	C-CERAMIC,CHIP
2203-000679	C8127,C8128	C-CERAMIC,CHIP
2203-000725	C8173,C8180	C-CERAMIC,CHIP
2203-000812	C11008	C-CERAMIC,CHIP
2203-001033	C8124	C-CERAMIC,CHIP
2203-002285	C11010,C8103	C-CERAMIC,CHIP
2203-005682	C5037	C-CERAMIC,CHIP
2203-005725	C1051	C-CERAMIC,CHIP
2203-005726	C9033,C9035,C9036	C-CERAMIC,CHIP
2203-005726	C9044	C-CERAMIC,CHIP
2203-005727	L1044	C-CERAMIC,CHIP
2203-005731	C2025,C2060,C9053	C-CERAMIC,CHIP
2203-005731	C9054	C-CERAMIC,CHIP
2203-005732	C9047,C9051,C9052	C-CERAMIC,CHIP
2203-005732	C9060,C9061,C9062	C-CERAMIC,CHIP
2203-005734	C10020,C5082,C5083	C-CERAMIC,CHIP
2203-005734	C5087	C-CERAMIC,CHIP
2203-005736	C1001,C1003,C1005	C-CERAMIC,CHIP
2203-005736	C10078,C10079,C10089	C-CERAMIC,CHIP
2203-005736	C1009,C10090,C10091	C-CERAMIC,CHIP

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5. MAIN Electrical Parts List

2203-005736	C10093,C10094,C10095	C-CERAMIC,CHIP
2203-005736	C1010,C1019,C1025	C-CERAMIC,CHIP
2203-005736	C1026,C1028,C1030	C-CERAMIC,CHIP
2203-005736	C1032,C1035,C1037	C-CERAMIC,CHIP
2203-005736	C1039,C1040,C1041	C-CERAMIC,CHIP
2203-005736	C1043,C1045,C1049	C-CERAMIC,CHIP
2203-005736	C1052,C1057,C1058	C-CERAMIC,CHIP
2203-005736	C1059,C1060,C1062	C-CERAMIC,CHIP
2203-005736	C1068,C1070,C1078	C-CERAMIC,CHIP
2203-005736	C1083,C1115,C2002	C-CERAMIC,CHIP
2203-005736	C2006,C2009,C2010	C-CERAMIC,CHIP
2203-005736	C2011,C2013,C2017	C-CERAMIC,CHIP
2203-005736	C2022,C2023,C2031	C-CERAMIC,CHIP
2203-005736	C2050,C2051,C2096	C-CERAMIC,CHIP
2203-005736	C2102,C2103,C3021	C-CERAMIC,CHIP
2203-005736	C5015,C5016,C5017	C-CERAMIC,CHIP
2203-005736	C5076,C5077,C5078	C-CERAMIC,CHIP
2203-005736	L1024,L1027,L1039	C-CERAMIC,CHIP
2203-005736	L1055,L2003,L5019	C-CERAMIC,CHIP
2203-005777	C1072,C1086,C2004	C-CERAMIC,CHIP
2203-005779	C10065,C10077,C10086	C-CERAMIC,CHIP
2203-005789	C1013,C1018,C1031	C-CERAMIC,CHIP
2203-005789	C1042,C1081,C1087	C-CERAMIC,CHIP
2203-005789	C2005,C2033,C2034	C-CERAMIC,CHIP
2203-005789	C2099	C-CERAMIC,CHIP
2203-005792	C5046	C-CERAMIC,CHIP
2203-005806	C5061	C-CERAMIC,CHIP
2203-006048	C5069	C-CERAMIC,CHIP
2203-006121	C1095,C9049	C-CERAMIC,CHIP
2203-006137	C12041,C5079	C-CERAMIC,CHIP
2203-006318	C1088	C-CERAMIC,CHIP
2203-006400	C3016,C3017,C3020	C-CERAMIC,CHIP
2203-006400	C5066,C5075,L3011	C-CERAMIC,CHIP
2203-006556	C1012,C8105,L1012	C-CERAMIC,CHIP
2203-006556	L1031	C-CERAMIC,CHIP
2203-006665	C5013,C5014	C-CERAMIC,CHIP
2203-006668	C4018,C6006	C-CERAMIC,CHIP
2203-006707	C2019,C2038	C-CERAMIC,CHIP
2203-006712	C1096	C-CERAMIC,CHIP

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2203-006839	C1092,C1094,C1102	C-CERAMIC,CHIP
2203-006839	C1103,C5053,C8114	C-CERAMIC,CHIP
2203-006839	C8123,C8131,C8137	C-CERAMIC,CHIP
2203-006839	L1070,L1075	C-CERAMIC,CHIP
2203-006844	C11002,C11003,C11004	C-CERAMIC,CHIP
2203-006844	C11006	C-CERAMIC,CHIP
2203-006846	C2026,C2030	C-CERAMIC,CHIP
2203-006968	C1034,C2015	C-CERAMIC,CHIP
2203-006979	C3007,C3009,C4019	C-CERAMIC,CHIP
2203-007210	C4004,C7012	C-CERAMIC,CHIP
2203-007271	C1099	C-CERAMIC,CHIP
2203-007317	C4000,C4025,C5055	C-CERAMIC,CHIP
2203-007317	C5056,C7055,C7065	C-CERAMIC,CHIP
2203-007317	C7104,C7108,C7121	C-CERAMIC,CHIP
2203-007317	C9018,C9023,C9037	C-CERAMIC,CHIP
2203-007317	C9038,C9039,C9040	C-CERAMIC,CHIP
2203-007317	C9041,C9043	C-CERAMIC,CHIP
2203-007391	C10040,C3022,C9007	C-CERAMIC,CHIP
2203-007391	C9008,C9031	C-CERAMIC,CHIP
2203-007392	C1104,C1113	C-CERAMIC,CHIP
2203-007393	C10016,C10019,C10039	C-CERAMIC,CHIP
2203-007393	C10088,C1093,C12008	C-CERAMIC,CHIP
2203-007393	C12011,C5025,C5026	C-CERAMIC,CHIP
2203-007393	C5028,C5032,C5041	C-CERAMIC,CHIP
2203-007393	C5051,C5084,C5086	C-CERAMIC,CHIP
2203-007393	C8019,C8063,C8070	C-CERAMIC,CHIP
2203-007393	C8091,C8135,C8140	C-CERAMIC,CHIP
2203-007393	C8177,C9066,C9067	C-CERAMIC,CHIP
2203-007425	C8115	C-CERAMIC,CHIP
2203-007456	C9063	C-CERAMIC,CHIP
2203-007474	C10012,C10013,C4012	C-CERAMIC,CHIP
2203-007474	C8069	C-CERAMIC,CHIP
2203-007486	L9013	C-CERAMIC,CHIP
2203-007544	C8149,C8151,C8152	C-CERAMIC,CHIP
2203-007544	C8154,C8157,C8159	C-CERAMIC,CHIP
2203-007544	C8171	C-CERAMIC,CHIP
2203-007621	C10026,C10052,C11014	C-CERAMIC,CHIP
2203-007621	C2001,C2016,C2036	C-CERAMIC,CHIP
2203-007621	C3002,C3005,C3010	C-CERAMIC,CHIP

5. MAIN Electrical Parts List

2203-007621	C3015,C3019,C4005	C-CERAMIC,CHIP
2203-007621	C4028,C4030,C5018	C-CERAMIC,CHIP
2203-007621	C5033,C5034,C5047	C-CERAMIC,CHIP
2203-007621	C5049,C5050,C5052	C-CERAMIC,CHIP
2203-007621	C5068,C6000,C6001	C-CERAMIC,CHIP
2203-007621	C8007,C8017,C8043	C-CERAMIC,CHIP
2203-007621	C8044,C8136,C8163	C-CERAMIC,CHIP
2203-007621	C9019,C9057,C9058	C-CERAMIC,CHIP
2203-007796	C10014,C10015,C1002	C-CERAMIC,CHIP
2203-007796	C10074,C1033,C11013	C-CERAMIC,CHIP
2203-007796	C12015,C12021,C12022	C-CERAMIC,CHIP
2203-007796	C12037,C12043,C3000	C-CERAMIC,CHIP
2203-007796	C3003,C3004,C3006	C-CERAMIC,CHIP
2203-007796	C3008,C3011,C3012	C-CERAMIC,CHIP
2203-007796	C3023,C3025,C4001	C-CERAMIC,CHIP
2203-007796	C5002,C5003,C5004	C-CERAMIC,CHIP
2203-007796	C5005,C5006,C5019	C-CERAMIC,CHIP
2203-007796	C5042,C5043,C5048	C-CERAMIC,CHIP
2203-007796	C5057,C5062,C5064	C-CERAMIC,CHIP
2203-007796	C7000,C7001,C7010	C-CERAMIC,CHIP
2203-007796	C7011,C7014,C7015	C-CERAMIC,CHIP
2203-007796	C7024,C7027,C7028	C-CERAMIC,CHIP
2203-007796	C7030,C7031,C7032	C-CERAMIC,CHIP
2203-007796	C7034,C7035,C7036	C-CERAMIC,CHIP
2203-007796	C7045,C7047,C7050	C-CERAMIC,CHIP
2203-007796	C7052,C7053,C7056	C-CERAMIC,CHIP
2203-007796	C7057,C7058,C7059	C-CERAMIC,CHIP
2203-007796	C7060,C7061,C7062	C-CERAMIC,CHIP
2203-007796	C7064,C7067,C7069	C-CERAMIC,CHIP
2203-007796	C7070,C7071,C7072	C-CERAMIC,CHIP
2203-007796	C7073,C7075,C7076	C-CERAMIC,CHIP
2203-007796	C7077,C7078,C7079	C-CERAMIC,CHIP
2203-007796	C7080,C7081,C7084	C-CERAMIC,CHIP
2203-007796	C7086,C7088,C7089	C-CERAMIC,CHIP
2203-007796	C7090,C7092,C7093	C-CERAMIC,CHIP
2203-007796	C7095,C7096,C7097	C-CERAMIC,CHIP
2203-007796	C7106,C7110,C7111	C-CERAMIC,CHIP
2203-007796	C7112,C7113,C7115	C-CERAMIC,CHIP
2203-007796	C7116,C7117,C7119	C-CERAMIC,CHIP

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2203-007796	C8059,C8060,C8065	C-CERAMIC,CHIP
2203-007796	C8066,C8068,C8072	C-CERAMIC,CHIP
2203-007796	C8073,C8075,C8079	C-CERAMIC,CHIP
2203-007796	C8080,C8092,C8097	C-CERAMIC,CHIP
2203-007796	C8112,C8139,C8141	C-CERAMIC,CHIP
2203-007796	C8143,C8153,C8169	C-CERAMIC,CHIP
2203-007796	C8170,C9009,C9013	C-CERAMIC,CHIP
2203-007796	C9021,C9022,C9024	C-CERAMIC,CHIP
2203-007796	C9025,C9027,C9032	C-CERAMIC,CHIP
2203-007796	C9034,C9042,C9055	C-CERAMIC,CHIP
2203-007809	C8172	C-CERAMIC,CHIP
2203-008095	C8104	C-CERAMIC,CHIP
2203-008097	C10056,C8005,C8018	C-CERAMIC,CHIP
2203-008097	C8161,C9001,C9004	C-CERAMIC,CHIP
2203-008097	C9010,C9014,C9030	C-CERAMIC,CHIP
2203-008097	R9009	C-CERAMIC,CHIP
2203-008158	C8146,C8148,C8155	C-CERAMIC,CHIP
2203-008158	C8156	C-CERAMIC,CHIP
2203-008177	C8025	C-CERAMIC,CHIP
2203-008242	C10002,C10021,C10022	C-CERAMIC,CHIP
2203-008242	C10030,C10033,C10037	C-CERAMIC,CHIP
2203-008242	C10041,C10043,C10054	C-CERAMIC,CHIP
2203-008242	C10055,C10061,C10066	C-CERAMIC,CHIP
2203-008242	C12019,C12024,C12028	C-CERAMIC,CHIP
2203-008242	C4006,C5007,C5008	C-CERAMIC,CHIP
2203-008242	C5010,C7068,C7087	C-CERAMIC,CHIP
2203-008242	C7105,C8010,C8011	C-CERAMIC,CHIP
2203-008242	C8012,C8028,C8029	C-CERAMIC,CHIP
2203-008242	C8030,C8031,C8055	C-CERAMIC,CHIP
2203-008242	C8056,C8057,C8061	C-CERAMIC,CHIP
2203-008242	C8062,C8064,C8071	C-CERAMIC,CHIP
2203-008242	C8074,C8090,C8096	C-CERAMIC,CHIP
2203-008242	C8098,C8162,C9015	C-CERAMIC,CHIP
2203-008400	L1036,R4029	C-CERAMIC,CHIP
2203-008403	C5088,C5089	C-CERAMIC,CHIP
2203-008466	C10070,C10071,C1017	C-CERAMIC,CHIP
2203-008466	C5009,C5039,C5080	C-CERAMIC,CHIP
2203-008466	C5081,C9017,R4005	C-CERAMIC,CHIP
2203-008466	R4006,R4011,R4012	C-CERAMIC,CHIP

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2203-008466	R4013,R9016	C-CERAMIC,CHIP
2203-008529	C1000,C5027	C-CERAMIC,CHIP
2203-008563	C1066,C2000,C2090	C-CERAMIC,CHIP
2203-008563	C2091,C4013,C4014	C-CERAMIC,CHIP
2203-008563	C4015,C4016,C5036	C-CERAMIC,CHIP
2203-008563	C5044,C6003,C6004	C-CERAMIC,CHIP
2203-008563	C8158	C-CERAMIC,CHIP
2203-008572	C8118,C8144,C8145	C-CERAMIC,CHIP
2203-008572	C8160,C8178	C-CERAMIC,CHIP
2203-008653	C6002	C-CERAMIC,CHIP
2203-008749	C9064	C-CERAMIC,CHIP
2203-008844	C10011	C-CERAMIC,CHIP
2203-008860	C1069,C1114,C12012	C-CERAMIC,CHIP
2203-008860	C12029,C12036,C12039	C-CERAMIC,CHIP
2203-008860	C3001,C8134,C8179	C-CERAMIC,CHIP
2203-008876	C10001,C10004,C10007	C-CERAMIC,CHIP
2203-008876	C10008,C10009,C10023	C-CERAMIC,CHIP
2203-008876	C10024,C10025,C10031	C-CERAMIC,CHIP
2203-008876	C10032,C10036,C10038	C-CERAMIC,CHIP
2203-008876	C10053,C10062,C10063	C-CERAMIC,CHIP
2203-008876	C10069,C10080,C10097	C-CERAMIC,CHIP
2203-008876	C10098,C10107,C1067	C-CERAMIC,CHIP
2203-008876	C12018,C12023,C12027	C-CERAMIC,CHIP
2203-008876	C12030,C12031,C4011	C-CERAMIC,CHIP
2203-008876	C8004,C8006,C8008	C-CERAMIC,CHIP
2203-008876	C8009,C8013,C8014	C-CERAMIC,CHIP
2203-008876	C8016,C8020,C8021	C-CERAMIC,CHIP
2203-008876	C8032,C8037,C8038	C-CERAMIC,CHIP
2203-008876	C8041,C8042,C8045	C-CERAMIC,CHIP
2203-008876	C8047,C8050,C8051	C-CERAMIC,CHIP
2203-008876	C8052,C8053,C8067	C-CERAMIC,CHIP
2203-008876	C8089,C8100,C8102	C-CERAMIC,CHIP
2203-008876	C8113,C8164,C9026	C-CERAMIC,CHIP
2203-008876	C9028,C9045,R10005	C-CERAMIC,CHIP
2203-008886	C11005,C11007	C-CERAMIC,CHIP
2203-008886	ZD11000,ZD11001	C-CERAMIC,CHIP
2203-009025	C2024	C-CERAMIC,CHIP
2203-009064	C7002,C7003,C7005	C-CERAMIC,CHIP
2203-009064	C7007,C7008,C7018	C-CERAMIC,CHIP

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2203-009064	C7019,C7020,C7022	C-CERAMIC,CHIP
2203-009064	C7051,C7114	C-CERAMIC,CHIP
2203-009167	C5070,C5073	C-CERAMIC,CHIP
2203-009220	C11012	C-CERAMIC,CHIP
2203-009444	C8106	C-CERAMIC,CHIP
2203-009537	C12016,C12017,C7048	C-CERAMIC,CHIP
2203-009551	C12035	C-CERAMIC,CHIP
2203-009618	C10010,C12001,C12002	C-CERAMIC,CHIP
2203-009618	C12003,C12004,C12005	C-CERAMIC,CHIP
2203-009618	C5040	C-CERAMIC,CHIP
2203-009733	C10003,C10005,C10017	C-CERAMIC,CHIP
2203-009733	C10044,C10085,C10087	C-CERAMIC,CHIP
2203-009733	C1105,C1106,C12006	C-CERAMIC,CHIP
2203-009733	C12007,C12044,C8022	C-CERAMIC,CHIP
2203-009733	C8088,C9012,C9016	C-CERAMIC,CHIP
2203-009735	C7098,C7102	C-CERAMIC,CHIP
2203-009736	C10027,C10029,C10048	C-CERAMIC,CHIP
2203-009736	C10049,C10051,C10075	C-CERAMIC,CHIP
2203-009736	C10076,C10081,C10082	C-CERAMIC,CHIP
2203-009736	C10083,C10084,C10092	C-CERAMIC,CHIP
2203-009736	C10099,C10100,C10101	C-CERAMIC,CHIP
2203-009736	C10102,C10103,C10104	C-CERAMIC,CHIP
2203-009736	C10105,C10106,C3014	C-CERAMIC,CHIP
2203-009736	C3018,C9020	C-CERAMIC,CHIP
2203-009812	C8119	C-CERAMIC,CHIP
2203-009858	C4002,C4010,C5059	C-CERAMIC,CHIP
2203-009858	C5060,C5065,C8000	C-CERAMIC,CHIP
2203-009858	C8001,C8002,C8003	C-CERAMIC,CHIP
2203-009858	C8125,C8126,C8129	C-CERAMIC,CHIP
2203-009858	C8138	C-CERAMIC,CHIP
2203-009859	C12000,C12013,C12014	C-CERAMIC,CHIP
2203-009969	C9000,C9002,C9003	C-CERAMIC,CHIP
2203-009969	C9005	C-CERAMIC,CHIP
2203-009987	C10028,C10045,C10046	C-CERAMIC,CHIP
2203-009987	C10047,C4008,C4009	C-CERAMIC,CHIP
2203-009987	C8085,C8086,C8087	C-CERAMIC,CHIP
2203-010085	C8040,C8081,C8082	C-CERAMIC,CHIP
2203-010085	C8083,C8084,L8018	C-CERAMIC,CHIP
2409-001387	TA8006,TA8007	CAPACITOR

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2409-001400	TA8000,TA8001,TA8002	CAPACITOR
2409-001400	TA8003,TA8004,TA8005	CAPACITOR
2703-002170	L1015	INDUCTOR
2703-002901	L1021	INDUCTOR
2703-002955	C2008,L1014	INDUCTOR
2703-002958	L1037,L1065,L2005	INDUCTOR
2703-002958	L2010,L2013,L2014	INDUCTOR
2703-002958	L2015,L2018,L2031	INDUCTOR
2703-002958	L2033	INDUCTOR
2703-002959	L10008,L10015,L10016	INDUCTOR
2703-002961	L1020	INDUCTOR
2703-002999	L1010,L2030	INDUCTOR
2703-003479	L2017	INDUCTOR
2703-004012	C1023,C1029,L1002	INDUCTOR
2703-004012	L1023,L1033,L1042	INDUCTOR
2703-004012	L1048,L1051,L1052	INDUCTOR
2703-004012	L2026,L2032,L2042	INDUCTOR
2703-004013	C2014,L1004,L1076	INDUCTOR
2703-004013	L2016,L5012	INDUCTOR
2703-004014	C1047,C1076,C2049	INDUCTOR
2703-004014	C5020,C5029,L1026	INDUCTOR
2703-004014	L1050,L2037	INDUCTOR
2703-004018	C1027,L1064,L5040	INDUCTOR
2703-004034	C2018,C2027,L1058	INDUCTOR
2703-004034	L2021,L2027,L2043	INDUCTOR
2703-004034	L2057	INDUCTOR
2703-004036	C2007,L2006	INDUCTOR
2703-004038	C1050,C1079,L1000	INDUCTOR
2703-004038	L1038,L1045	INDUCTOR
2703-004287	L1040	INDUCTOR
2703-004300	C2012,C5021,L2028	INDUCTOR
2703-004300	L2045,L5025	INDUCTOR
2703-004363	L2038	INDUCTOR
2703-004371	C1084	INDUCTOR
2703-004703	L1005,L1006,L1029	INDUCTOR
2703-004703	L1053,L1062,L5052	INDUCTOR
2703-004703	L5055,L5057	INDUCTOR
2703-004853	L1019,L11000	INDUCTOR
2703-005058	L4001	INDUCTOR

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2703-005067	L10001,L10002,L10003	INDUCTOR
2703-005067	L12007,L5039	INDUCTOR
2703-005085	C1046,C1061,C1085	INDUCTOR
2703-005085	C2020,C2035,C2039	INDUCTOR
2703-005085	L1025,L1032,L1035	INDUCTOR
2703-005085	L1043,L1063,L5024	INDUCTOR
2703-005086	C1071,C1074,C2028	INDUCTOR
2703-005086	L1049,L1054,L1056	INDUCTOR
2703-005086	L5008,L5018	INDUCTOR
2703-005087	L2025,L2036,L5041	INDUCTOR
2703-005088	L1041	INDUCTOR
2703-005089	L1028,L5050	INDUCTOR
2703-005200	L5033,L5035	INDUCTOR
2703-005201	L8001,L8003,L8004	INDUCTOR
2703-005201	L8005,L8008,L8009	INDUCTOR
2703-005201	L8010,L8011,L8017	INDUCTOR
2703-005201	L8026	INDUCTOR
2703-005224	L12000	INDUCTOR
2703-005225	L10000,L4000,L8027	INDUCTOR
2703-005233	L8024,L8025,L9000	INDUCTOR
2703-005233	L9001,L9005,L9007	INDUCTOR
2703-005295	L1008,L1013,L5014	INDUCTOR
2703-005296	L2009	INDUCTOR
2703-005418	L12006	INDUCTOR
2703-005430	L1072	INDUCTOR
2703-005505	L1074,L9002,L9003	INDUCTOR
2703-005509	L8002,L8006,L8007	INDUCTOR
2703-005509	L8012,L8013,L8014	INDUCTOR
2703-005509	L8015,L8016,L8022	INDUCTOR
2703-005555	L5047,L5048	INDUCTOR
2703-005614	L1022,L1059,L5042	INDUCTOR
2703-005660	L8023	INDUCTOR
2703-005663	L12003,L12004	INDUCTOR
2801-005393	OSC8000	CRYSTAL-UNIT
2805-001118	OSC5000	OSCILLATOR
2805-001128	TCX4000	OSCILLATOR
2901-001690	C7004,C7006,C7017	FILTER
2901-001690	C7021,C7037,C7038	FILTER
2901-001690	C7039,C7040,C7049	FILTER

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2901-001690	C7054,C7063,C7094	FILTER
2901-001690	C7099,C7100,C7101	FILTER
2901-001690	C7103,C7107	FILTER
2903-001576	F5001	FILTER
2904-002270	F2007	FILTER
2904-002296	F1001	FILTER
2904-002356	F5008	FILTER
2904-002362	C1077,F2005	FILTER
2904-002378	F2002	FILTER
2904-002393	F5005	FILTER
2904-002397	F2003	FILTER
2904-002401	F5003	FILTER
2904-002403	F1002	FILTER
2909-001422	F5006	FILTER
2911-000453	F2000	FILTER
2911-000455	F2004,U2000	FILTER
3003-001243	AU9000	MIC-CONDENSOR
3003-001253	MIC9000	MIC-CONDENSOR
3301-001885	L9006	CORE-FERRITE BEAD
3301-001989	L12009	CORE-FERRITE BEAD
3301-002223	L10004,L10007,L10010	CORE-FERRITE BEAD
3301-002223	L10012,L10013,L10014	CORE-FERRITE BEAD
3301-002228	L9004	CORE-FERRITE BEAD
3301-002235	L11001,L11002,L5045	CORE-FERRITE BEAD
3301-002235	L5046	CORE-FERRITE BEAD
3301-002237	L1001,L1009,L1011	CORE-FERRITE BEAD
3301-002237	L1034,L2001,L2002	CORE-FERRITE BEAD
3301-002237	L2007,L2011,L2012	CORE-FERRITE BEAD
3301-002237	L5038,L9011,R5000	CORE-FERRITE BEAD
3301-002238	L12008,L5060	CORE-FERRITE BEAD
3301-002239	L1016,L12010,L8030	CORE-FERRITE BEAD
3301-002243	L1007	CORE-FERRITE BEAD
3301-002244	L1073	CORE-FERRITE BEAD
3301-002279	L10017,L10018,L10019	CORE-FERRITE BEAD
3301-002312	L1069,L12001,L12002	CORE-FERRITE BEAD
3301-002312	L12005,L4002,L5029	CORE-FERRITE BEAD
3301-002312	L5058,L5059	CORE-FERRITE BEAD
3301-002331	L8020,L8021,L9010	CORE-FERRITE BEAD
3301-002375	L9008,L9009	CORE-FERRITE BEAD

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3705-001708	RFS100,RFS1001	CONNECTOR-COAXIAL
3709-001892	CN4000	CONNECTOR-CARD EDGE
3711-008847	HDC8000	CONNECTOR-HEADER
3711-008997	HEA9000	CONNECTOR-HEADER
3711-009356	HEA10001	CONNECTOR-HEADER
3711-009359	HEA10003,HEA12000	CONNECTOR-HEADER
3711-009407	HEA10002	CONNECTOR-HEADER
3712-001604	ANT1003,ANT1005	CONNECTOR
3712-001604	ANT1006,ANT1007	CONNECTOR
3712-001604	ANT1008,ANT1010	CONNECTOR
3712-001604	ANT1011,ANT8000	CONNECTOR
3712-001604	ANT8001,ANT8002	CONNECTOR
3712-001604	ANT8003,ANT8004	CONNECTOR
3712-001604	ANT8005,ANT8006	CONNECTOR
3712-001633	ANT8007,ANT8008	CONNECTOR
3712-001634	ANT4000,ANT4001	CONNECTOR
3712-001634	ANT4002,ANT4003	CONNECTOR
3712-001634	ANT4004,ANT4005	CONNECTOR
3712-001666	ANT1002,ANT1004	CONNECTOR
3712-001666	ANT5003,ANT5004	CONNECTOR
3712-001666	ANT9002,ANT9003	CONNECTOR
3712-001666	SANT2002,SANT2008	CONNECTOR
3712-001694	ANT1012,ANT11000	CONNECTOR
3712-001694	ANT11001,ANT11002	CONNECTOR
3712-001694	ANT11003,ANT11004	CONNECTOR
3712-001694	ANT11005,ANT11006	CONNECTOR
3712-001694	ANT11007,ANT11008	CONNECTOR
3712-001694	ANT5000,ANT5001	CONNECTOR
3712-001694	ANT5002,ANT5005	CONNECTOR
3712-001694	SANT2000,SANT2001	CONNECTOR
3712-001694	SANT2005,SANT2006	CONNECTOR
3712-001694	SANT2007	CONNECTOR
3712-001714	ANT9000,ANT9001	CONNECTOR
3712-001731	ANT1001,SANT2003	CONNECTOR
3712-001731	SANT2004	CONNECTOR
3722-004150	USB11000	JACK-PHONE
4709-002196	F1000	RF-MODULE
4709-002285	F5004	RF-MODULE
4709-002716	U5003	RF-MODULE

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[SM-G975FC]

Parts Code	Design LOC	Description
0401-001110	ZD8009	DIODE-SWITCHING
0404-001250	D8000,D9000	DIODE-SCHOTTKY
0406-001561	ZD9012	DIODE-TVS
0406-001709	ZD9009	DIODE-TVS
0406-001729	ZD8007,ZD8008	DIODE-TVS
0406-001781	ZD9007,ZD9011	DIODE-TVS
0406-001787	V9000,V9001,ZD11008	DIODE-TVS
0406-001787	ZD11019,ZD9000	DIODE-TVS
0406-001787	ZD9001	DIODE-TVS
0406-001804	ZD11006,ZD11007	DIODE-TVS
0406-001804	ZD11009,ZD11010	DIODE-TVS
0406-001804	ZD11017,ZD11018	DIODE-TVS
0406-001804	ZD11020,ZD11021	DIODE-TVS
0406-001805	ZD8003	DIODE-TVS
0406-001809	ZD11011,ZD11012	DIODE-TVS
0406-001826	ZD11002,ZD11022	DIODE-TVS
0601-003707	LED10000	LED
0801-003639	U8001	IC
0903-002233	U10003	IC
1001-001755	U9001	IC
1001-001975	U1003	IC
1001-002045	U8025	IC
1001-002075	F2001,U1002,U1004	IC
1009-001076	U11001,U5009	IC
1107-002651	UME4000	IC
1201-003735	U5007	IC
1201-004114	PAM1001	IC
1201-004157	PAM1000	IC
1201-004178	U9003,ZD9003	IC
1201-004210	U1005	IC
1202-001120	U12001	IC
1203-008472	U10002	IC
1203-008729	U4000	IC
1203-008802	U8008	IC
1203-008811	U5008	IC
1203-008867	U12002,U5006,U8035	IC
1203-009032	U12000	IC

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1203-009035	U10001	IC
1203-009080	U9002	IC
1203-009156	U8031	IC
1203-009168	U8003	IC
1203-009187	U8015	IC
1203-009191	U12003	IC
1204-003761	L1071	IC
1204-003773	U1001	IC
1205-005217	U10004	IC
1205-005729	U9000	IC
1205-005871	U5014	IC
1205-005880	U5002	IC
1205-006032	U3000	IC
1205-006044	UCP5000	IC
1209-002513	U5013	IC
1209-002558	U5011	IC
1209-002567	U5012	IC
1209-002578	U5010	IC
1209-002607	U11000	IC
1209-002608	U5004	IC
1209-002619	U5005	IC
1404-001724	TH11000,TH5000	THERMISTOR
1404-001724	TH6000,TH8000,TH8001	THERMISTOR
1404-001724	TH8002,V4000	THERMISTOR
1405-001395	V11003,V11010,V11011	VARISTOR
1405-001395	V11012,V11013,V11014	VARISTOR
1405-001395	V11018,V11019,V11020	VARISTOR
1405-001395	V11021,V2001,V2004	VARISTOR
1405-001403	V11024,V2003	VARISTOR
1405-001404	V11000,V11001,V11009	VARISTOR
1405-001404	V11015,V11026,V11027	VARISTOR
1405-001404	V11029,V2010,V2011	VARISTOR
1405-001404	V5012	VARISTOR
1405-001412	V1002	VARISTOR
1405-001415	V1003,V11023,V11025	VARISTOR
1405-001415	V11030,V11031,V2002	VARISTOR
1405-001415	V2008,V2009,V5005	VARISTOR
1405-001415	V5006	VARISTOR
1405-001420	R1003,V11002,V11004	VARISTOR

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1405-001420	V11005,V11008,V11022	VARISTOR
1405-001420	V11028,V2000,V5002	VARISTOR
1405-001420	V5003,V5004	VARISTOR
1405-001422	V2007	VARISTOR
1405-001425	V1001	VARISTOR
1405-001428	V11006,V11007,V11017	VARISTOR
1405-001441	V5007	VARISTOR
1405-001450	V1000	VARISTOR
2007-000172	R5050	R-CHIP
2007-001284	R11011,R11013,R11014	R-CHIP
2007-001284	R11016	R-CHIP
2007-007100	R11009	R-CHIP
2007-007193	R9023,R9024	R-CHIP
2007-007310	R6001,R6031,R6078	R-CHIP
2007-007314	R5024,R5025	R-CHIP
2007-007698	R8020	R-CHIP
2007-007741	R10021,R4035,R5022	R-CHIP
2007-007741	R5041,R8021,R8032	R-CHIP
2007-007741	R8033,R9000,R9026	R-CHIP
2007-007942	R6043	R-CHIP
2007-007946	R6045	R-CHIP
2007-008043	R3000	R-CHIP
2007-008052	R10020,R12010	R-CHIP
2007-008211	R12004,R8041	R-CHIP
2007-008294	R9018	R-CHIP
2007-008296	R10002	R-CHIP
2007-008403	R8039	R-CHIP
2007-008419	R11008,R4028	R-CHIP
2007-008486	R10001,R8036	R-CHIP
2007-008531	R10017,R8010,R8034	R-CHIP
2007-008531	R8035,R9019	R-CHIP
2007-008774	R11010,R11012,R11015	R-CHIP
2007-008774	R11017,R5038,R5039	R-CHIP
2007-008785	R4027	R-CHIP
2007-009111	R5040	R-CHIP
2007-009157	R11006,R4017,R4018	R-CHIP
2007-009157	R5014,R6062,R6063	R-CHIP
2007-009157	R8015,R8016,R8017	R-CHIP
2007-009157	R8029,R8030	R-CHIP

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2007-009182	R5001,R8038	R-CHIP
2007-009201	R9007,R9008,R9010	R-CHIP
2007-009201	R9013	R-CHIP
2007-009212	R10009,R10010,R4003	R-CHIP
2007-009212	R4004,R4007,R4009	R-CHIP
2007-009212	R4010,R6023,R6024	R-CHIP
2007-009212	R6060,R6061,R8040	R-CHIP
2007-009212	R9014,R9021	R-CHIP
2007-009233	R8023,R8024	R-CHIP
2007-009314	R12007,R4026	R-CHIP
2007-009408	R12000,R9020	R-CHIP
2007-009805	R5026,R5027	R-CHIP
2007-009866	R10018,R11002,R11003	R-CHIP
2007-009866	R11004,R11005,R8001	R-CHIP
2007-009866	R8031	R-CHIP
2007-009924	R11000,R11001	R-CHIP
2007-009969	R9015	R-CHIP
2007-010202	R8009,R8012,R8013	R-CHIP
2007-010685	R8025,R8026	R-CHIP
2007-011040	R9022,R9025	R-CHIP
2007-011043	R6000	R-CHIP
2007-011378	R4000,R4001,R4008	R-CHIP
2007-011378	R5010,R5011,R6051	R-CHIP
2007-011378	R6053,R6054,R6055	R-CHIP
2007-011378	R6058,R6064,R6065	R-CHIP
2007-011378	R6066,R6067,R6068	R-CHIP
2007-011378	R6070,R6073,R6074	R-CHIP
2007-011378	R6075,R9004	R-CHIP
2007-011532	R9006	R-CHIP
2007-011542	R10003,R12003,R12005	R-CHIP
2007-011546	R6038,R6039,R6040	R-CHIP
2007-011546	R6041,R6079,R6080	R-CHIP
2007-011546	R6081,R6082	R-CHIP
2007-011548	R10004,R3002,R3003	R-CHIP
2007-011548	R3005,R3006,R6044	R-CHIP
2007-011591	R11007,R5004,R5005	R-CHIP
2007-011591	R5006,R5007,R5023	R-CHIP
2007-011591	R6002,R6003,R6006	R-CHIP
2007-011591	R6007,R6008,R6009	R-CHIP

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2007-011591	R6012,R6013,R6014	R-CHIP
2007-011591	R6015,R6021,R6022	R-CHIP
2007-011591	R6025,R6026,R6027	R-CHIP
2007-011591	R6028,R6029,R6030	R-CHIP
2007-011591	R6032,R6033,R6034	R-CHIP
2007-011591	R6035,R6085,R6086	R-CHIP
2007-011591	R8004,R8019	R-CHIP
2007-011594	R10007,R10008,R6010	R-CHIP
2007-011594	R6011,R6019,R6020	R-CHIP
2007-011594	R6036,R6037,R6091	R-CHIP
2007-011594	R6092	R-CHIP
2007-011599	R6042	R-CHIP
2007-011648	C4017	R-CHIP
2007-012197	R8018	R-CHIP
2007-012202	R12006	R-CHIP
2203-000138	C8181,C8183	C-CERAMIC,CHIP
2203-000233	C5067,C5074,C8117	C-CERAMIC,CHIP
2203-000330	C5071	C-CERAMIC,CHIP
2203-000438	C8174	C-CERAMIC,CHIP
2203-000489	C8150	C-CERAMIC,CHIP
2203-000679	C8127,C8128	C-CERAMIC,CHIP
2203-000725	C8173,C8180	C-CERAMIC,CHIP
2203-000812	C11008	C-CERAMIC,CHIP
2203-001033	C8124	C-CERAMIC,CHIP
2203-002285	C11010,C8103	C-CERAMIC,CHIP
2203-005682	C5037	C-CERAMIC,CHIP
2203-005725	C1051	C-CERAMIC,CHIP
2203-005726	C9033,C9035,C9036	C-CERAMIC,CHIP
2203-005726	C9044	C-CERAMIC,CHIP
2203-005727	L1044	C-CERAMIC,CHIP
2203-005731	C2025,C2060,C9053	C-CERAMIC,CHIP
2203-005731	C9054	C-CERAMIC,CHIP
2203-005732	C9047,C9051,C9052	C-CERAMIC,CHIP
2203-005732	C9060,C9061,C9062	C-CERAMIC,CHIP
2203-005734	C10020,C5082,C5083	C-CERAMIC,CHIP
2203-005734	C5087	C-CERAMIC,CHIP
2203-005736	C1001,C1003,C1005	C-CERAMIC,CHIP
2203-005736	C10078,C10079,C10089	C-CERAMIC,CHIP
2203-005736	C1009,C10090,C10091	C-CERAMIC,CHIP

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2203-005736	C10093,C10094,C10095	C-CERAMIC,CHIP
2203-005736	C1010,C1019,C1023	C-CERAMIC,CHIP
2203-005736	C1025,C1026,C1028	C-CERAMIC,CHIP
2203-005736	C1030,C1032,C1035	C-CERAMIC,CHIP
2203-005736	C1037,C1039,C1040	C-CERAMIC,CHIP
2203-005736	C1041,C1043,C1045	C-CERAMIC,CHIP
2203-005736	C1052,C1057,C1058	C-CERAMIC,CHIP
2203-005736	C1059,C1060,C1062	C-CERAMIC,CHIP
2203-005736	C1068,C1070,C1078	C-CERAMIC,CHIP
2203-005736	C1083,C1115,C2002	C-CERAMIC,CHIP
2203-005736	C2006,C2009,C2010	C-CERAMIC,CHIP
2203-005736	C2011,C2013,C2017	C-CERAMIC,CHIP
2203-005736	C2022,C2023,C2031	C-CERAMIC,CHIP
2203-005736	C2050,C2051,C2096	C-CERAMIC,CHIP
2203-005736	C2102,C2103,C3021	C-CERAMIC,CHIP
2203-005736	C5015,C5016,C5017	C-CERAMIC,CHIP
2203-005736	C5076,C5077,C5078	C-CERAMIC,CHIP
2203-005736	L1002,L1024,L1027	C-CERAMIC,CHIP
2203-005736	L1039,L1055,L2003	C-CERAMIC,CHIP
2203-005736	L5019	C-CERAMIC,CHIP
2203-005736	L1025	C-CERAMIC,CHIP
2203-005777	C1072,C1086	C-CERAMIC,CHIP
2203-005779	C10065,C10077,C10086	C-CERAMIC,CHIP
2203-005789	C1013,C1018,C1031	C-CERAMIC,CHIP
2203-005789	C1042,C1081,C1087	C-CERAMIC,CHIP
2203-005789	C2005,C2033,C2034	C-CERAMIC,CHIP
2203-005789	C2099	C-CERAMIC,CHIP
2203-005792	C5046	C-CERAMIC,CHIP
2203-005806	C5061	C-CERAMIC,CHIP
2203-006048	C5069	C-CERAMIC,CHIP
2203-006121	C1095,C9049	C-CERAMIC,CHIP
2203-006137	C12041,C5079	C-CERAMIC,CHIP
2203-006318	C1088	C-CERAMIC,CHIP
2203-006400	C3016,C3017,C3020	C-CERAMIC,CHIP
2203-006400	C5066,C5075,L3011	C-CERAMIC,CHIP
2203-006556	C1012,C8105,L1012	C-CERAMIC,CHIP
2203-006556	L1031	C-CERAMIC,CHIP
2203-006665	C5013,C5014	C-CERAMIC,CHIP
2203-006668	C4018,C6006	C-CERAMIC,CHIP

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2203-006707	C2019,C2038	C-CERAMIC,CHIP
2203-006712	C1096	C-CERAMIC,CHIP
2203-006839	C1092,C1094,C1102	C-CERAMIC,CHIP
2203-006839	C1103,C5053,C8114	C-CERAMIC,CHIP
2203-006839	C8123,C8131,C8137	C-CERAMIC,CHIP
2203-006839	L1070,L1075	C-CERAMIC,CHIP
2203-006844	C11002,C11003,C11004	C-CERAMIC,CHIP
2203-006844	C11006	C-CERAMIC,CHIP
2203-006846	C2026,C2030	C-CERAMIC,CHIP
2203-006968	C1034,C2015	C-CERAMIC,CHIP
2203-006979	C3007,C3009,C4019	C-CERAMIC,CHIP
2203-007210	C4004,C7012	C-CERAMIC,CHIP
2203-007271	C1099	C-CERAMIC,CHIP
2203-007317	C4000,C4025,C5055	C-CERAMIC,CHIP
2203-007317	C5056,C7055,C7065	C-CERAMIC,CHIP
2203-007317	C7104,C7108,C7121	C-CERAMIC,CHIP
2203-007317	C9018,C9023,C9037	C-CERAMIC,CHIP
2203-007317	C9038,C9039,C9040	C-CERAMIC,CHIP
2203-007317	C9041,C9043	C-CERAMIC,CHIP
2203-007391	C10040,C3022,C9007	C-CERAMIC,CHIP
2203-007391	C9008,C9031	C-CERAMIC,CHIP
2203-007392	C1104,C1113	C-CERAMIC,CHIP
2203-007393	C10016,C10019,C10039	C-CERAMIC,CHIP
2203-007393	C10088,C1093,C12008	C-CERAMIC,CHIP
2203-007393	C12011,C5025,C5026	C-CERAMIC,CHIP
2203-007393	C5028,C5032,C5041	C-CERAMIC,CHIP
2203-007393	C5051,C5084,C5086	C-CERAMIC,CHIP
2203-007393	C8019,C8063,C8070	C-CERAMIC,CHIP
2203-007393	C8091,C8135,C8140	C-CERAMIC,CHIP
2203-007393	C8177,C9066,C9067	C-CERAMIC,CHIP
2203-007425	C8115	C-CERAMIC,CHIP
2203-007456	C9063	C-CERAMIC,CHIP
2203-007474	C10012,C10013,C4012	C-CERAMIC,CHIP
2203-007474	C8069	C-CERAMIC,CHIP
2203-007486	L9013	C-CERAMIC,CHIP
2203-007544	C8149,C8151,C8152	C-CERAMIC,CHIP
2203-007544	C8154,C8157,C8159	C-CERAMIC,CHIP
2203-007544	C8171	C-CERAMIC,CHIP
2203-007621	C10026,C10052,C11014	C-CERAMIC,CHIP

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2203-007621	C2001,C2016,C2036	C-CERAMIC,CHIP
2203-007621	C3002,C3005,C3010	C-CERAMIC,CHIP
2203-007621	C3015,C3019,C4005	C-CERAMIC,CHIP
2203-007621	C4028,C4030,C5018	C-CERAMIC,CHIP
2203-007621	C5033,C5034,C5047	C-CERAMIC,CHIP
2203-007621	C5049,C5050,C5052	C-CERAMIC,CHIP
2203-007621	C5068,C6000,C6001	C-CERAMIC,CHIP
2203-007621	C8007,C8017,C8043	C-CERAMIC,CHIP
2203-007621	C8044,C8136,C8163	C-CERAMIC,CHIP
2203-007621	C9019,C9057,C9058	C-CERAMIC,CHIP
2203-007796	C10014,C10015,C1002	C-CERAMIC,CHIP
2203-007796	C10074,C1033,C11013	C-CERAMIC,CHIP
2203-007796	C12015,C12021,C12022	C-CERAMIC,CHIP
2203-007796	C12037,C12043,C3000	C-CERAMIC,CHIP
2203-007796	C3003,C3004,C3006	C-CERAMIC,CHIP
2203-007796	C3008,C3011,C3012	C-CERAMIC,CHIP
2203-007796	C3023,C3025,C4001	C-CERAMIC,CHIP
2203-007796	C5002,C5003,C5004	C-CERAMIC,CHIP
2203-007796	C5005,C5006,C5019	C-CERAMIC,CHIP
2203-007796	C5042,C5043,C5048	C-CERAMIC,CHIP
2203-007796	C5057,C5062,C5064	C-CERAMIC,CHIP
2203-007796	C7000,C7001,C7010	C-CERAMIC,CHIP
2203-007796	C7011,C7014,C7015	C-CERAMIC,CHIP
2203-007796	C7024,C7027,C7028	C-CERAMIC,CHIP
2203-007796	C7030,C7031,C7032	C-CERAMIC,CHIP
2203-007796	C7034,C7035,C7036	C-CERAMIC,CHIP
2203-007796	C7045,C7047,C7050	C-CERAMIC,CHIP
2203-007796	C7052,C7053,C7056	C-CERAMIC,CHIP
2203-007796	C7057,C7058,C7059	C-CERAMIC,CHIP
2203-007796	C7060,C7061,C7062	C-CERAMIC,CHIP
2203-007796	C7064,C7067,C7069	C-CERAMIC,CHIP
2203-007796	C7070,C7071,C7072	C-CERAMIC,CHIP
2203-007796	C7073,C7075,C7076	C-CERAMIC,CHIP
2203-007796	C7077,C7078,C7079	C-CERAMIC,CHIP
2203-007796	C7080,C7081,C7084	C-CERAMIC,CHIP
2203-007796	C7086,C7088,C7089	C-CERAMIC,CHIP
2203-007796	C7090,C7092,C7093	C-CERAMIC,CHIP
2203-007796	C7095,C7096,C7097	C-CERAMIC,CHIP
2203-007796	C7106,C7110,C7111	C-CERAMIC,CHIP

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2203-007796	C7112,C7113,C7115	C-CERAMIC,CHIP
2203-007796	C7116,C7117,C7119	C-CERAMIC,CHIP
2203-007796	C8059,C8060,C8065	C-CERAMIC,CHIP
2203-007796	C8066,C8068,C8072	C-CERAMIC,CHIP
2203-007796	C8073,C8075,C8079	C-CERAMIC,CHIP
2203-007796	C8080,C8092,C8097	C-CERAMIC,CHIP
2203-007796	C8112,C8139,C8141	C-CERAMIC,CHIP
2203-007796	C8143,C8153,C8169	C-CERAMIC,CHIP
2203-007796	C8170,C9009,C9013	C-CERAMIC,CHIP
2203-007796	C9021,C9022,C9024	C-CERAMIC,CHIP
2203-007796	C9025,C9027,C9032	C-CERAMIC,CHIP
2203-007796	C9034,C9042,C9055	C-CERAMIC,CHIP
2203-007809	C8172	C-CERAMIC,CHIP
2203-008095	C8104	C-CERAMIC,CHIP
2203-008097	C10056,C8005,C8018	C-CERAMIC,CHIP
2203-008097	C8161,C9001,C9004	C-CERAMIC,CHIP
2203-008097	C9010,C9014,C9030	C-CERAMIC,CHIP
2203-008097	R9009	C-CERAMIC,CHIP
2203-008158	C8146,C8148,C8155	C-CERAMIC,CHIP
2203-008158	C8156	C-CERAMIC,CHIP
2203-008177	C8025	C-CERAMIC,CHIP
2203-008242	C10002,C10021,C10022	C-CERAMIC,CHIP
2203-008242	C10030,C10033,C10037	C-CERAMIC,CHIP
2203-008242	C10041,C10043,C10054	C-CERAMIC,CHIP
2203-008242	C10055,C10061,C10066	C-CERAMIC,CHIP
2203-008242	C12019,C12024,C12028	C-CERAMIC,CHIP
2203-008242	C4006,C5007,C5008	C-CERAMIC,CHIP
2203-008242	C5010,C7068,C7087	C-CERAMIC,CHIP
2203-008242	C7105,C8010,C8011	C-CERAMIC,CHIP
2203-008242	C8012,C8028,C8029	C-CERAMIC,CHIP
2203-008242	C8030,C8031,C8055	C-CERAMIC,CHIP
2203-008242	C8056,C8057,C8061	C-CERAMIC,CHIP
2203-008242	C8062,C8064,C8071	C-CERAMIC,CHIP
2203-008242	C8074,C8090,C8096	C-CERAMIC,CHIP
2203-008242	C8098,C8162,C9015	C-CERAMIC,CHIP
2203-008400	L1036,R4029	C-CERAMIC,CHIP
2203-008403	C5088,C5089	C-CERAMIC,CHIP
2203-008466	C10070,C10071,C1017	C-CERAMIC,CHIP
2203-008466	C5009,C5039,C5080	C-CERAMIC,CHIP

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2203-008466	C5081,C9017,R4005	C-CERAMIC,CHIP
2203-008466	R4006,R4011,R4012	C-CERAMIC,CHIP
2203-008466	R4013,R9016	C-CERAMIC,CHIP
2203-008529	C1000,C5027	C-CERAMIC,CHIP
2203-008563	C1066,C2000,C2090	C-CERAMIC,CHIP
2203-008563	C2091,C4013,C4014	C-CERAMIC,CHIP
2203-008563	C4015,C4016,C5036	C-CERAMIC,CHIP
2203-008563	C5044,C6003,C6004	C-CERAMIC,CHIP
2203-008563	C8158	C-CERAMIC,CHIP
2203-008572	C8118,C8144,C8145	C-CERAMIC,CHIP
2203-008572	C8160,C8178	C-CERAMIC,CHIP
2203-008653	C6002	C-CERAMIC,CHIP
2203-008749	C9064	C-CERAMIC,CHIP
2203-008844	C10011	C-CERAMIC,CHIP
2203-008860	C1069,C1114,C12012	C-CERAMIC,CHIP
2203-008860	C12029,C12036,C12039	C-CERAMIC,CHIP
2203-008860	C3001,C8134,C8179	C-CERAMIC,CHIP
2203-008876	C10001,C10004,C10007	C-CERAMIC,CHIP
2203-008876	C10008,C10009,C10023	C-CERAMIC,CHIP
2203-008876	C10024,C10025,C10031	C-CERAMIC,CHIP
2203-008876	C10032,C10036,C10038	C-CERAMIC,CHIP
2203-008876	C10053,C10062,C10063	C-CERAMIC,CHIP
2203-008876	C10069,C10080,C10097	C-CERAMIC,CHIP
2203-008876	C10098,C10107,C1067	C-CERAMIC,CHIP
2203-008876	C12018,C12023,C12027	C-CERAMIC,CHIP
2203-008876	C12030,C12031,C4011	C-CERAMIC,CHIP
2203-008876	C8004,C8006,C8008	C-CERAMIC,CHIP
2203-008876	C8009,C8013,C8014	C-CERAMIC,CHIP
2203-008876	C8016,C8020,C8021	C-CERAMIC,CHIP
2203-008876	C8032,C8037,C8038	C-CERAMIC,CHIP
2203-008876	C8041,C8042,C8045	C-CERAMIC,CHIP
2203-008876	C8047,C8050,C8051	C-CERAMIC,CHIP
2203-008876	C8052,C8053,C8067	C-CERAMIC,CHIP
2203-008876	C8089,C8100,C8102	C-CERAMIC,CHIP
2203-008876	C8113,C8164,C9026	C-CERAMIC,CHIP
2203-008876	C9028,C9045,R10005	C-CERAMIC,CHIP
2203-008886	C11005,C11007	C-CERAMIC,CHIP
2203-008886	ZD11000,ZD11001	C-CERAMIC,CHIP
2203-009025	C2024	C-CERAMIC,CHIP

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2203-009064	C7002,C7003,C7005	C-CERAMIC,CHIP
2203-009064	C7007,C7008,C7018	C-CERAMIC,CHIP
2203-009064	C7019,C7020,C7022	C-CERAMIC,CHIP
2203-009064	C7051,C7114	C-CERAMIC,CHIP
2203-009167	C5070,C5073	C-CERAMIC,CHIP
2203-009220	C11012	C-CERAMIC,CHIP
2203-009444	C8106	C-CERAMIC,CHIP
2203-009537	C12016,C12017,C7048	C-CERAMIC,CHIP
2203-009551	C1049,C12035	C-CERAMIC,CHIP
2203-009618	C10010,C12001,C12002	C-CERAMIC,CHIP
2203-009618	C12003,C12004,C12005	C-CERAMIC,CHIP
2203-009618	C5040	C-CERAMIC,CHIP
2203-009733	C10003,C10005,C10017	C-CERAMIC,CHIP
2203-009733	C10044,C10085,C10087	C-CERAMIC,CHIP
2203-009733	C1105,C1106,C12006	C-CERAMIC,CHIP
2203-009733	C12007,C12044,C8022	C-CERAMIC,CHIP
2203-009733	C8088,C9012,C9016	C-CERAMIC,CHIP
2203-009735	C7098,C7102	C-CERAMIC,CHIP
2203-009736	C10027,C10029,C10048	C-CERAMIC,CHIP
2203-009736	C10049,C10051,C10075	C-CERAMIC,CHIP
2203-009736	C10076,C10081,C10082	C-CERAMIC,CHIP
2203-009736	C10083,C10084,C10092	C-CERAMIC,CHIP
2203-009736	C10099,C10100,C10101	C-CERAMIC,CHIP
2203-009736	C10102,C10103,C10104	C-CERAMIC,CHIP
2203-009736	C10105,C10106,C3014	C-CERAMIC,CHIP
2203-009736	C3018,C9020	C-CERAMIC,CHIP
2203-009812	C8119	C-CERAMIC,CHIP
2203-009858	C4002,C4010,C5059	C-CERAMIC,CHIP
2203-009858	C5060,C5065,C8000	C-CERAMIC,CHIP
2203-009858	C8001,C8002,C8003	C-CERAMIC,CHIP
2203-009858	C8125,C8126,C8129	C-CERAMIC,CHIP
2203-009858	C8138	C-CERAMIC,CHIP
2203-009859	C12000,C12013,C12014	C-CERAMIC,CHIP
2203-009969	C9000,C9002,C9003	C-CERAMIC,CHIP
2203-009969	C9005	C-CERAMIC,CHIP
2203-009987	C10028,C10045,C10046	C-CERAMIC,CHIP
2203-009987	C10047,C4008,C4009	C-CERAMIC,CHIP
2203-009987	C8085,C8086,C8087	C-CERAMIC,CHIP
2203-010085	C8040,C8081,C8082	C-CERAMIC,CHIP

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2203-010085	C8083,C8084,L8018	C-CERAMIC,CHIP
2409-001387	TA8006,TA8007	CAPACITOR
2409-001400	TA8000,TA8001,TA8002	CAPACITOR
2409-001400	TA8003,TA8004,TA8005	CAPACITOR
2703-002170	L1015	INDUCTOR
2703-002901	L1021	INDUCTOR
2703-002955	C2008,L1014	INDUCTOR
2703-002958	L1037,L1065,L2005	INDUCTOR
2703-002958	L2010,L2013,L2014	INDUCTOR
2703-002958	L2015,L2018,L2031	INDUCTOR
2703-002958	L2033	INDUCTOR
2703-002959	L10008,L10015,L10016	INDUCTOR
2703-002961	L1020	INDUCTOR
2703-002999	L1010,L2030	INDUCTOR
2703-003479	L2017	INDUCTOR
2703-004012	C1029,L1023,L1033	INDUCTOR
2703-004012	L1042,L1048,L1051	INDUCTOR
2703-004012	L1052,L2026,L2032	INDUCTOR
2703-004012	L2042	INDUCTOR
2703-004013	C2014,L1004,L1076	INDUCTOR
2703-004013	L2016,L5012	INDUCTOR
2703-004014	C1047,C1076,C2049	INDUCTOR
2703-004014	C5020,C5029,L1026	INDUCTOR
2703-004014	L1050,L2037	INDUCTOR
2703-004018	C2004,L1064,L5040	INDUCTOR
2703-004034	C2018,C2027	INDUCTOR
2703-004034	L1058,L2021,L2027	INDUCTOR
2703-004034	L2043,L2057	INDUCTOR
2703-004036	C2007,L2006	INDUCTOR
2703-004038	C1050,C1079,L1000	INDUCTOR
2703-004038	L1038,L1045	INDUCTOR
2703-004287	L1040	INDUCTOR
2703-004300	C2012,C5021,L2028	INDUCTOR
2703-004300	L2045,L5025	INDUCTOR
2703-004363	L2038	INDUCTOR
2703-004371	C1084	INDUCTOR
2703-004703	L1005,L1006,L1029	INDUCTOR
2703-004703	L1053,L1062,L5052	INDUCTOR
2703-004703	L5055,L5057	INDUCTOR

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2703-004853	L1019,L11000	INDUCTOR
2703-005058	L4001	INDUCTOR
2703-005067	L10001,L10002,L10003	INDUCTOR
2703-005067	L12007,L5039	INDUCTOR
2703-005085	C1027,C1046,C1061	INDUCTOR
2703-005085	C1085,C2020,C2035	INDUCTOR
2703-005085	C2039,L1032,L1035	INDUCTOR
2703-005085	L1043,L1063,L5024	INDUCTOR
2703-005086	C1071,C1074,C2028	INDUCTOR
2703-005086	L1022,L1049,L1054	INDUCTOR
2703-005086	L1056,L5008,L5018	INDUCTOR
2703-005087	L2025,L2036,L5041	INDUCTOR
2703-005088	L1041	INDUCTOR
2703-005089	L1028,L5050	INDUCTOR
2703-005200	L5033,L5035	INDUCTOR
2703-005201	L8001,L8003,L8004	INDUCTOR
2703-005201	L8005,L8008,L8009	INDUCTOR
2703-005201	L8010,L8011,L8017	INDUCTOR
2703-005201	L8026	INDUCTOR
2703-005224	L12000	INDUCTOR
2703-005225	L10000,L4000,L8027	INDUCTOR
2703-005233	L8024,L8025,L9000	INDUCTOR
2703-005233	L9001,L9005,L9007	INDUCTOR
2703-005295	L1008,L1013,L5014	INDUCTOR
2703-005296	L2009	INDUCTOR
2703-005418	L12006	INDUCTOR
2703-005430	L1072	INDUCTOR
2703-005505	L1074,L9002,L9003	INDUCTOR
2703-005509	L8002,L8006,L8007	INDUCTOR
2703-005509	L8012,L8013,L8014	INDUCTOR
2703-005509	L8015,L8016,L8022	INDUCTOR
2703-005555	L5047,L5048	INDUCTOR
2703-005614	L1059,L5042	INDUCTOR
2703-005660	L8023	INDUCTOR
2703-005663	L12003,L12004	INDUCTOR
2801-005393	OSC8000	CRYSTAL-UNIT
2805-001118	OSC5000	OSCILLATOR
2805-001128	TCX4000	OSCILLATOR
2901-001690	C7004,C7006,C7017	FILTER

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2901-001690	C7021,C7037,C7038	FILTER
2901-001690	C7039,C7040,C7049	FILTER
2901-001690	C7054,C7063,C7094	FILTER
2901-001690	C7099,C7100,C7101	FILTER
2901-001690	C7103,C7107	FILTER
2903-001576	F5001	FILTER
2904-002270	F2007	FILTER
2904-002296	F1001	FILTER
2904-002356	F5008	FILTER
2904-002362	C1077,F2005	FILTER
2904-002378	F2002	FILTER
2904-002393	F5005	FILTER
2904-002397	F2003	FILTER
2904-002401	F5003	FILTER
2904-002403	F1002	FILTER
2909-001422	F5006	FILTER
2911-000453	F2000	FILTER
2911-000455	F2004,U2000	FILTER
3003-001243	AU9000	MIC-CONDENSOR
3003-001253	MIC9000	MIC-CONDENSOR
3301-001885	L9006	CORE-FERRITE BEAD
3301-001989	L12009	CORE-FERRITE BEAD
3301-002223	L10004,L10007,L10010	CORE-FERRITE BEAD
3301-002223	L10012,L10013,L10014	CORE-FERRITE BEAD
3301-002228	L9004	CORE-FERRITE BEAD
3301-002235	L11001,L11002,L5045	CORE-FERRITE BEAD
3301-002235	L5046	CORE-FERRITE BEAD
3301-002237	L1001,L1009,L1011	CORE-FERRITE BEAD
3301-002237	L1034,L2001,L2002	CORE-FERRITE BEAD
3301-002237	L2007,L2011,L2012	CORE-FERRITE BEAD
3301-002237	L5038,L9011,R5000	CORE-FERRITE BEAD
3301-002238	L12008,L5060	CORE-FERRITE BEAD
3301-002239	L1016,L12010,L8030	CORE-FERRITE BEAD
3301-002243	L1007	CORE-FERRITE BEAD
3301-002244	L1073	CORE-FERRITE BEAD
3301-002279	L10017,L10018,L10019	CORE-FERRITE BEAD
3301-002312	L1069,L12001,L12002	CORE-FERRITE BEAD
3301-002312	L12005,L4002,L5029	CORE-FERRITE BEAD
3301-002312	L5058,L5059	CORE-FERRITE BEAD

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3301-002331	L8020,L8021,L9010	CORE-FERRITE BEAD
3301-002375	L9008,L9009	CORE-FERRITE BEAD
3705-001708	RFS100,RFS1001	CONNECTOR-COAXIAL
3709-001892	CN4000	CONNECTOR-CARD EDGE
3711-008847	HDC8000	CONNECTOR-HEADER
3711-008997	HEA9000	CONNECTOR-HEADER
3711-009356	HEA10001	CONNECTOR-HEADER
3711-009359	HEA10003,HEA12000	CONNECTOR-HEADER
3711-009407	HEA10002	CONNECTOR-HEADER
3712-001604	ANT1003,ANT1005	CONNECTOR
3712-001604	ANT1006,ANT1007	CONNECTOR
3712-001604	ANT1008,ANT1010	CONNECTOR
3712-001604	ANT1011,ANT8000	CONNECTOR
3712-001604	ANT8001,ANT8002	CONNECTOR
3712-001604	ANT8003,ANT8004	CONNECTOR
3712-001604	ANT8005,ANT8006	CONNECTOR
3712-001633	ANT8007,ANT8008	CONNECTOR
3712-001634	ANT4000,ANT4001	CONNECTOR
3712-001634	ANT4002,ANT4003	CONNECTOR
3712-001634	ANT4004,ANT4005	CONNECTOR
3712-001666	ANT1002,ANT1004	CONNECTOR
3712-001666	ANT5003,ANT5004	CONNECTOR
3712-001666	ANT9002,ANT9003	CONNECTOR
3712-001666	SANT2002,SANT2008	CONNECTOR
3712-001694	ANT1012,ANT11000	CONNECTOR
3712-001694	ANT11001,ANT11002	CONNECTOR
3712-001694	ANT11003,ANT11004	CONNECTOR
3712-001694	ANT11005,ANT11006	CONNECTOR
3712-001694	ANT11007,ANT11008	CONNECTOR
3712-001694	ANT5000,ANT5001	CONNECTOR
3712-001694	ANT5002,ANT5005	CONNECTOR
3712-001694	SANT2000,SANT2001	CONNECTOR
3712-001694	SANT2005,SANT2006	CONNECTOR
3712-001694	SANT2007	CONNECTOR
3712-001714	ANT9000,ANT9001	CONNECTOR
3712-001731	ANT1001,SANT2003	CONNECTOR
3712-001731	SANT2004	CONNECTOR
3722-004150	USB11000	JACK-PHONE
4709-002196	F1000	RF-MODULE

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5. MAIN Electrical Parts List

4709-002285	F5004	RF-MODULE
4709-002716	U5003	RF-MODULE

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

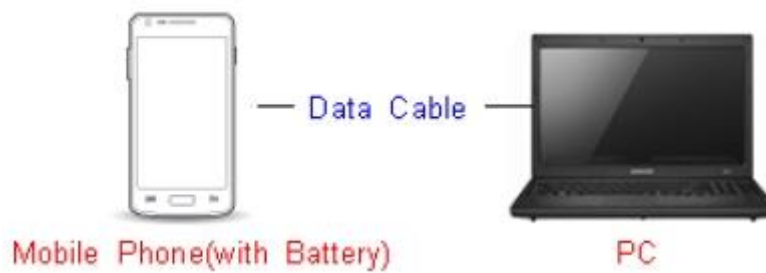
6. Level 1 Repair

6-1. S/W Update

6-1-1. Preparation

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

※ Settings



Data Cable : [GH39-01922A](#)

6. Level 1 Repair

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

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



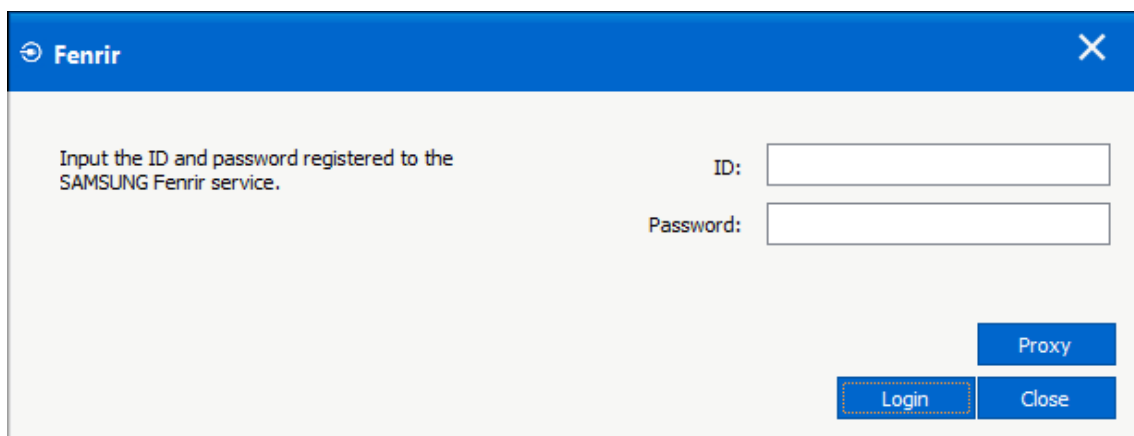
- SVH (Fenrir_Home) : It uses Home binary which does not have user data area in the memory when flashed to a device. (Keep user data)

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

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

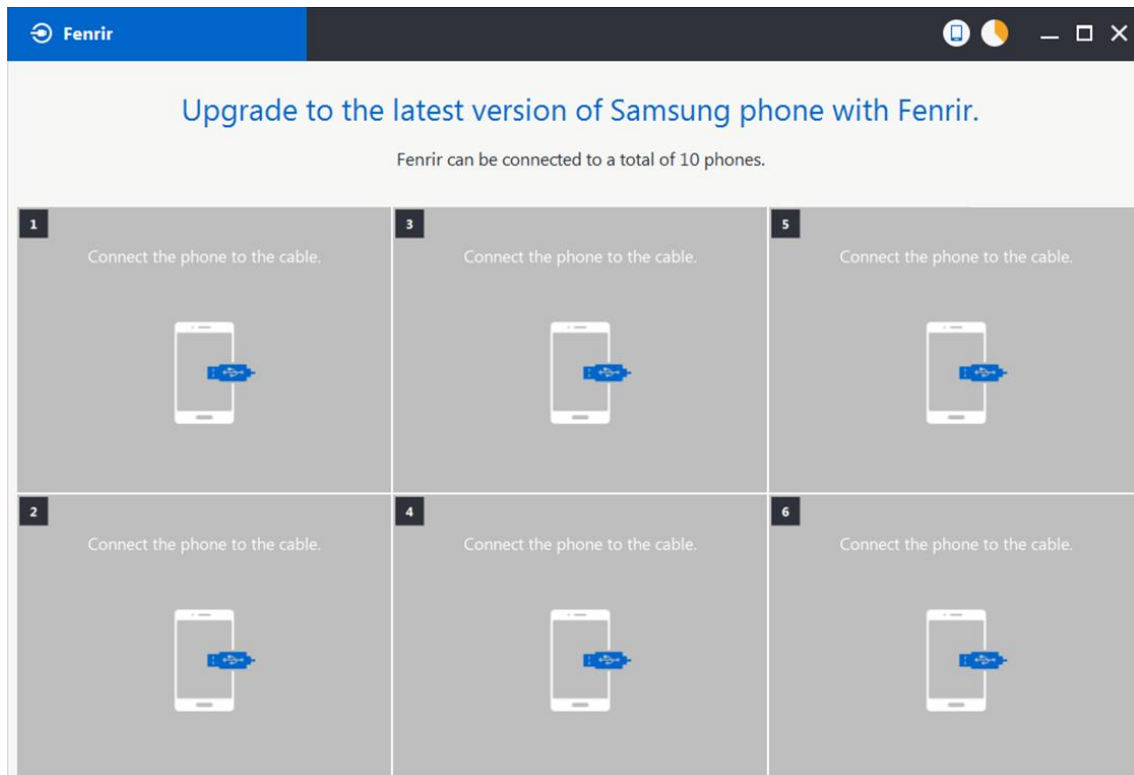
2) Input ID & password

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

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

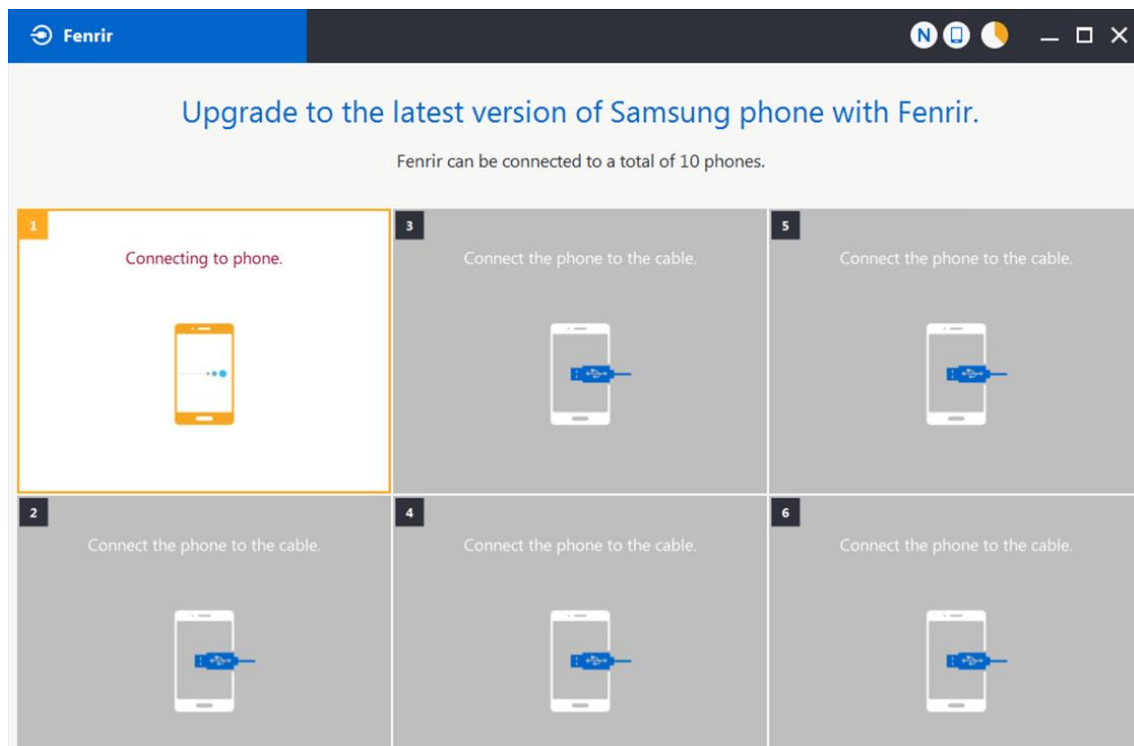
6. Level 1 Repair

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



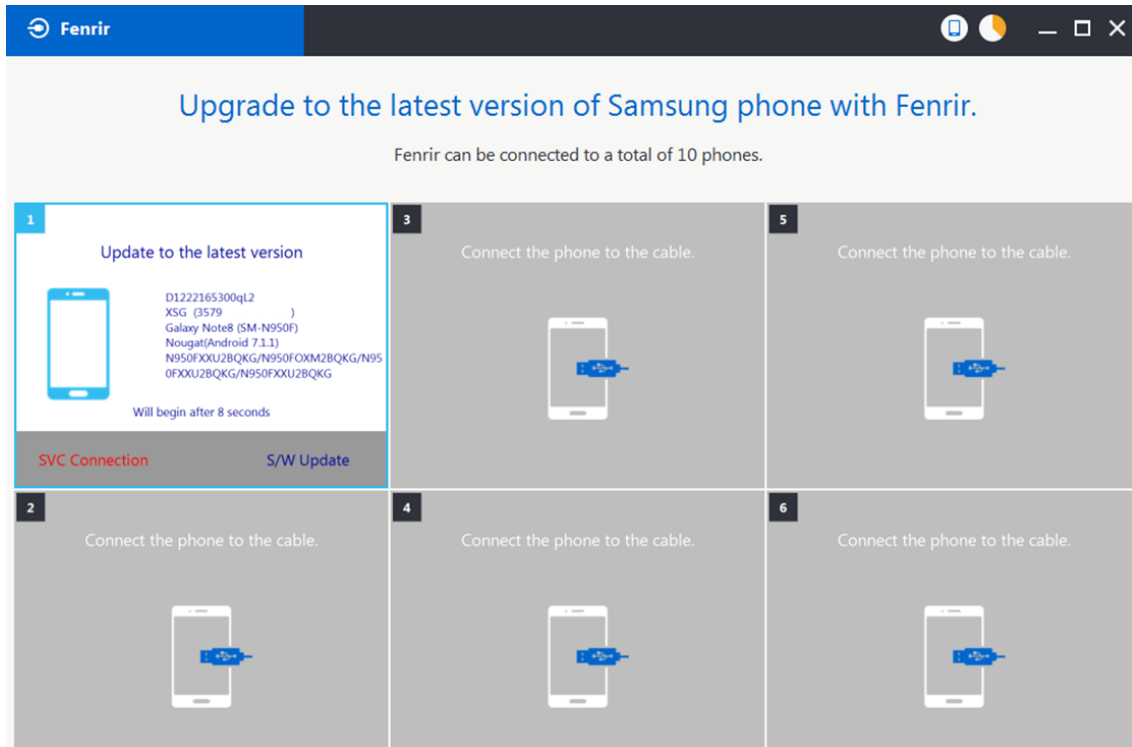
4) Connect the device to PC via data cable.

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

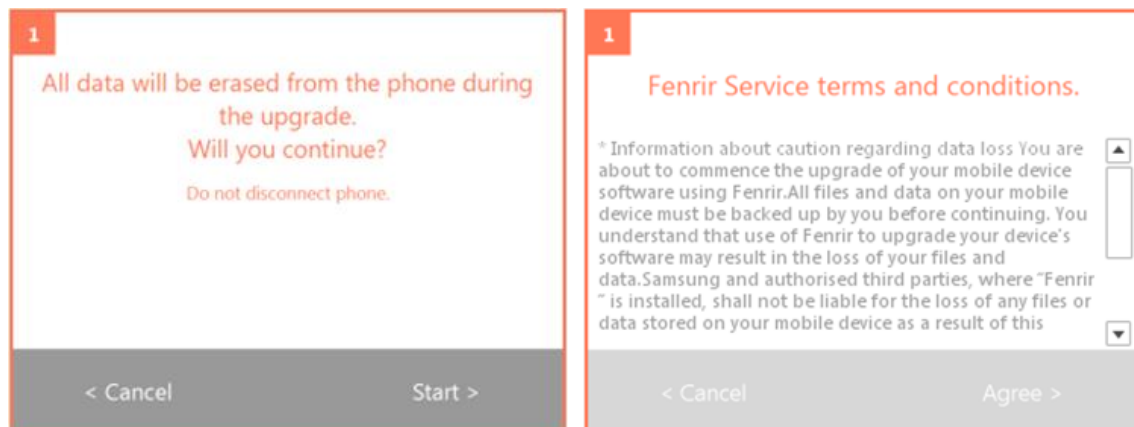


6. Level 1 Repair

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

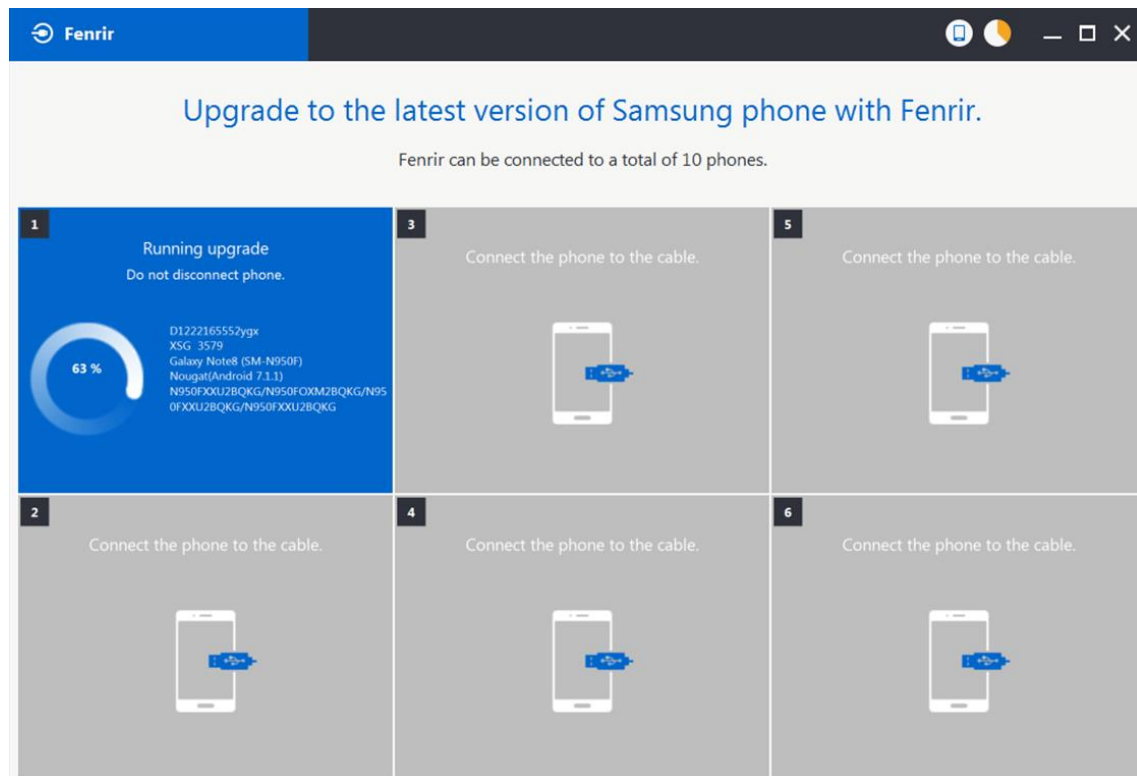


7) Once Fenrir starts, application will display the below screen. And select the Start button & Agree button.

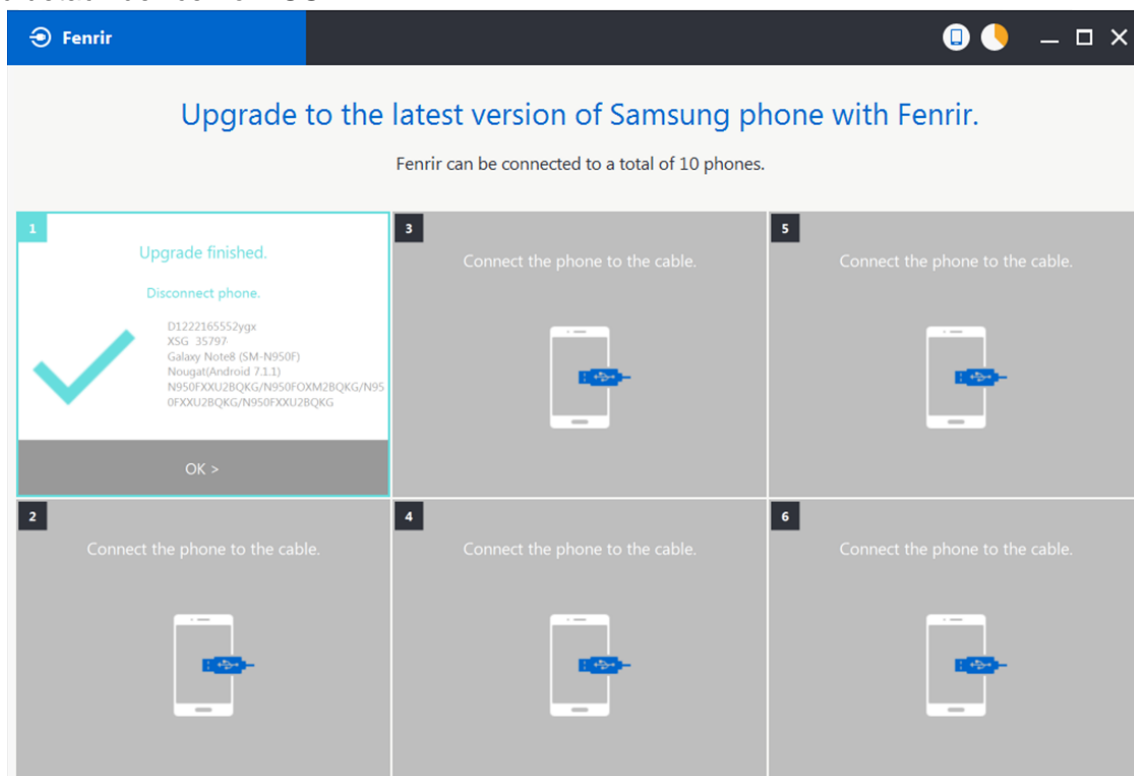


6. Level 1 Repair

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



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



6. Level 1 Repair

6-2. How to use 'Odin' program

※ S/W Update via Fenrir is mandatory.

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

6-2-1. Preparation

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

※ Settings

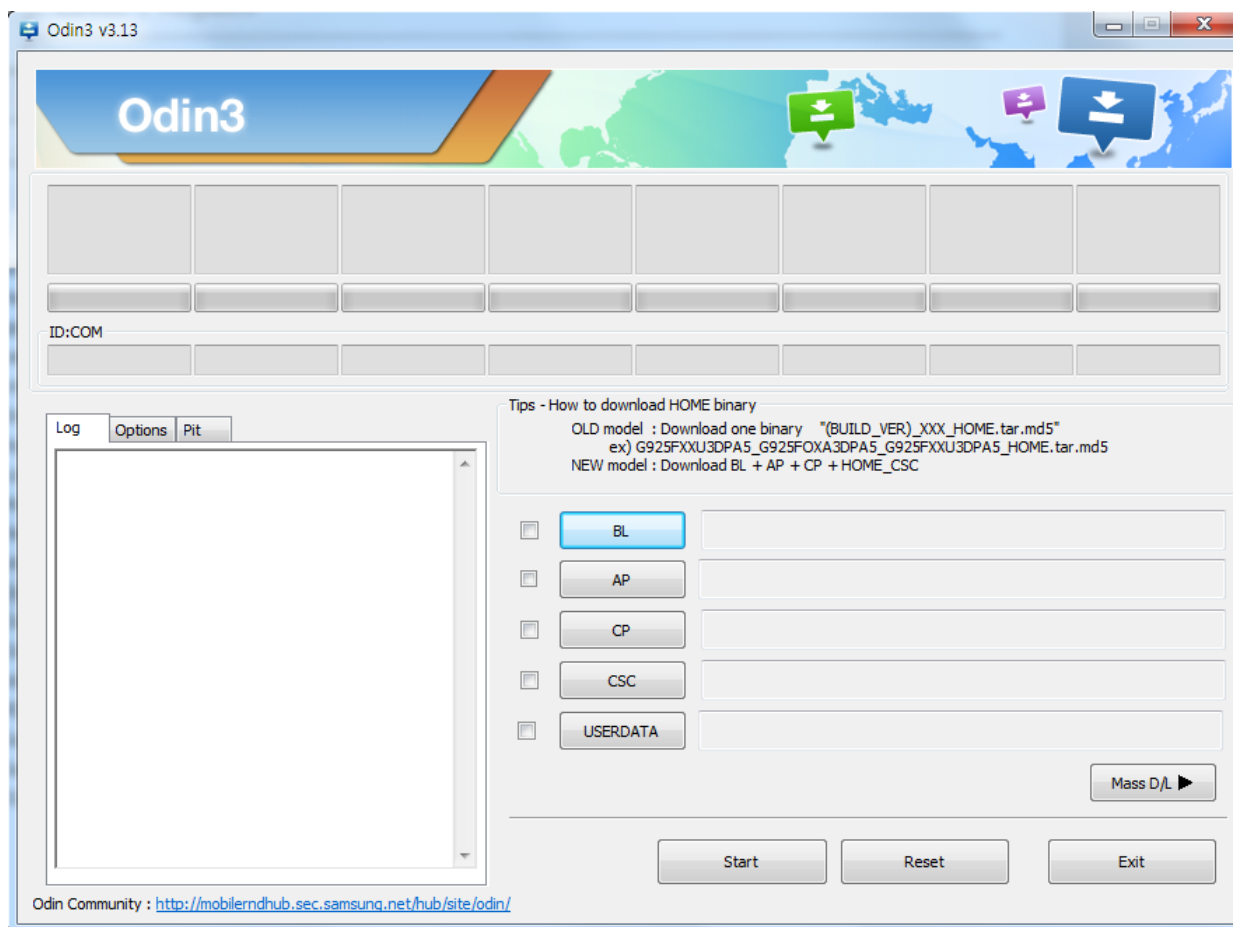


Data Cable : [GH39-01922A](#)

6. Level 1 Repair

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

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

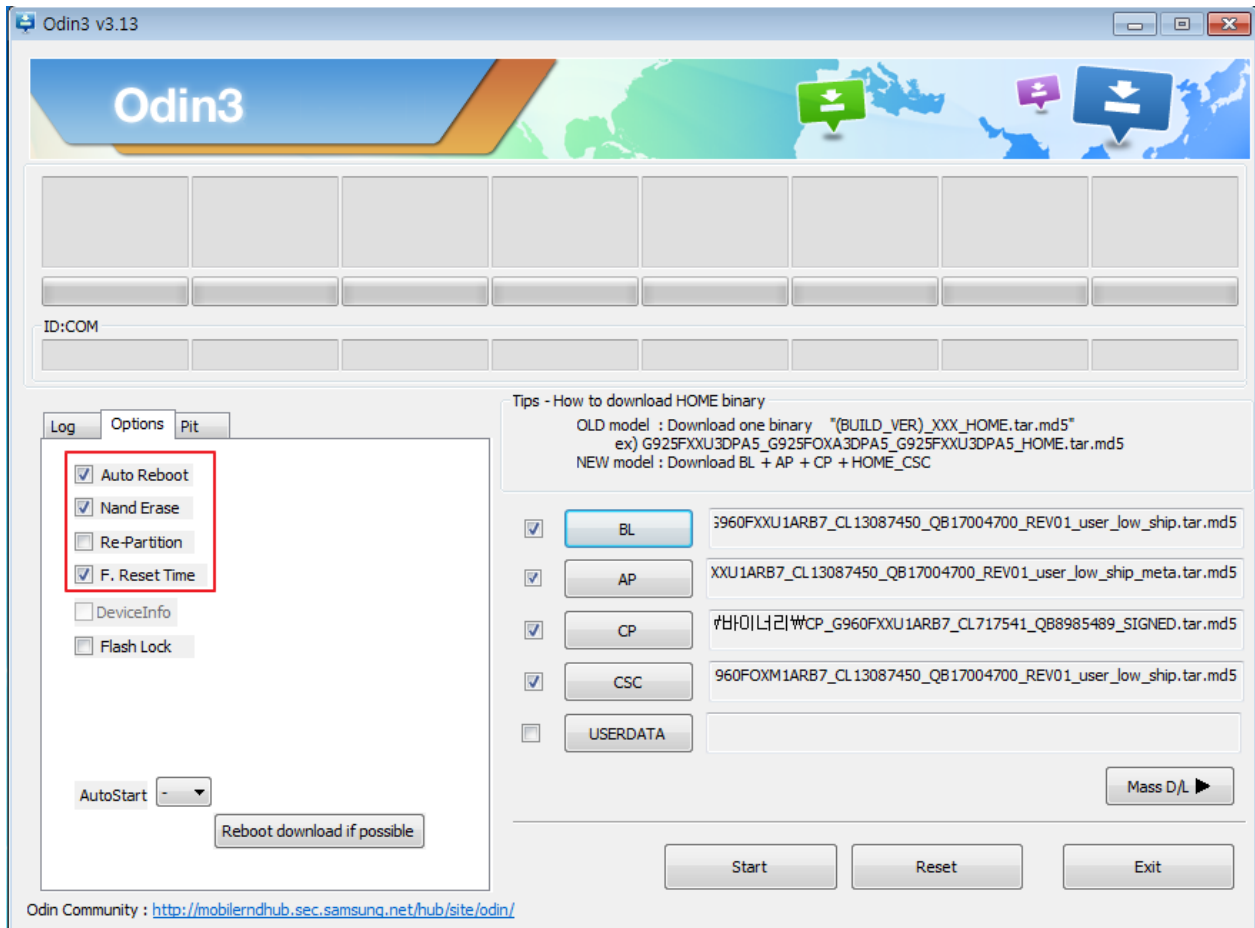


6. Level 1 Repair

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

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

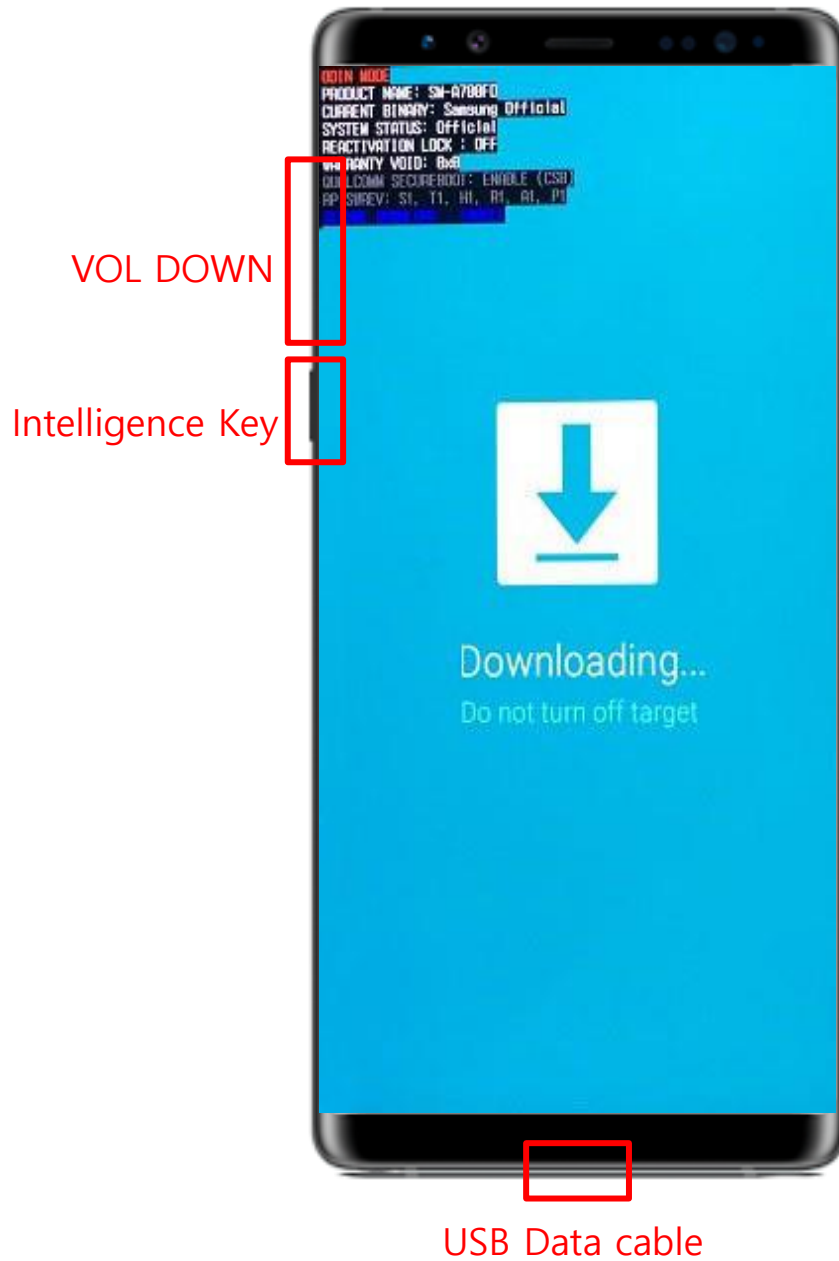
* Note : Odin PGM checks MD5 checksum just after file selection.



6. Level 1 Repair

2. Enter into Download Mode

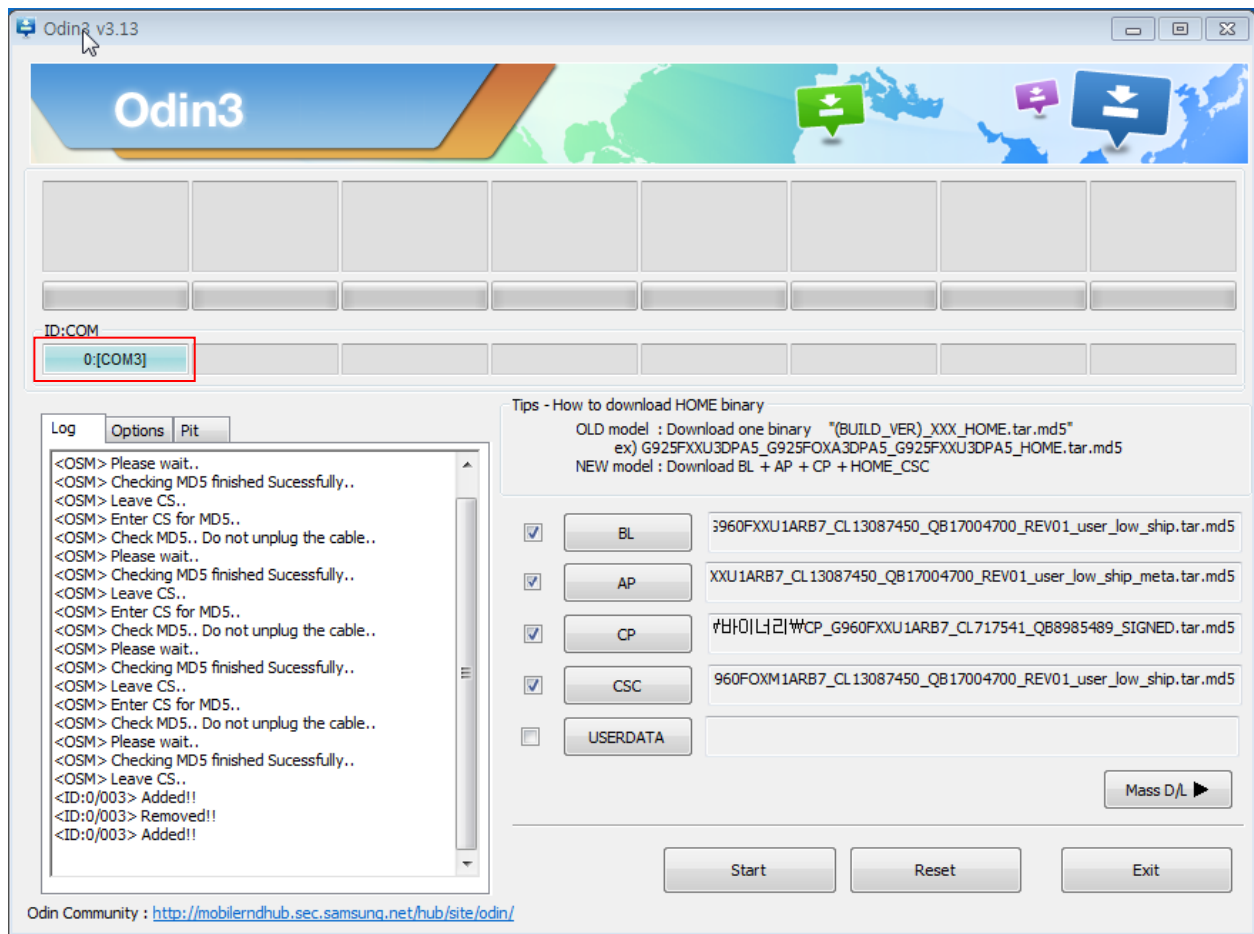
- Enter into Download Mode by pressing Volume Down button and Intelligence button simultaneously and connecting data cable followed by pressing Volume up button as a direction of the phone.



6. Level 1 Repair

3. Connect the device to PC via Data Cable.

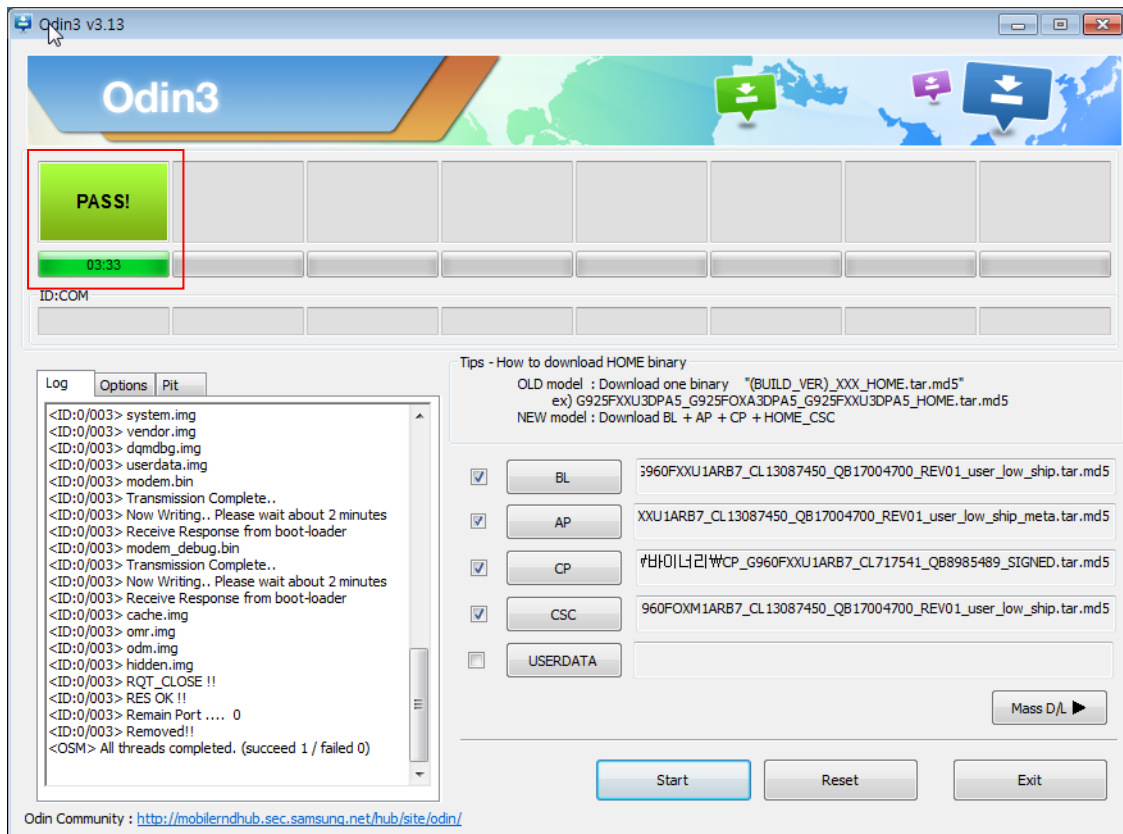
Make sure that the one of communication ports [ID:COM] box is highlighted in sky blue.
The device is now connected with the PC and ready to download the binary files in it.



6. Level 1 Repair

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

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



5. Disconnect the device from the Data cable.

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

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

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

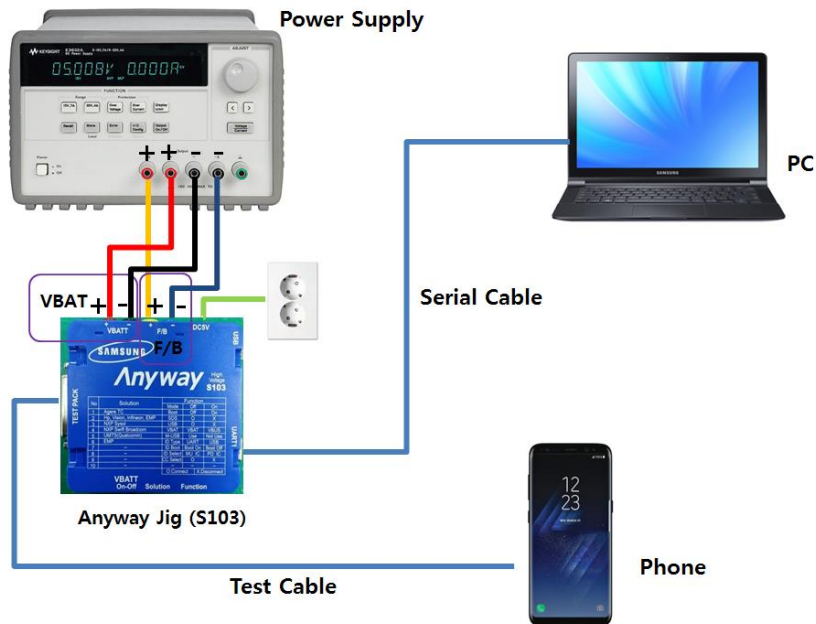
6. Level 1 Repair

6-3. IMEI writing




6-3-1. Preparation

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

- H/W




- S/W

① Library Install	To use Daseul, library files should be installed. Refer to SVC Bulletin “(11-82) Daseul (New IMEI writing Program) Library Install guide_rev1.0”
② Launcher	DASEUL_SVC_Launcher_v3.0.12 or higher -Uploaded on HHPsvc Notice
③ Runtime File	1. DASEUL_IMEI_ALL_Runtime_3.1.405.0_r00595.CAB or higher -Uploaded on HHPsvc Notice 2. Make 'ModelName' folder at the same position with launcher & Runtime file. <div> DASEUL_IMEI_ALL_Runtime_3.1.405.0_r00595  DASEUL_Launcher_v3.0.29  SM-G970F_SS(CSC)_IMEI_Ver_3.1.385.3</div>
④ Model File	Copy Model File under the 'Model Name' folder

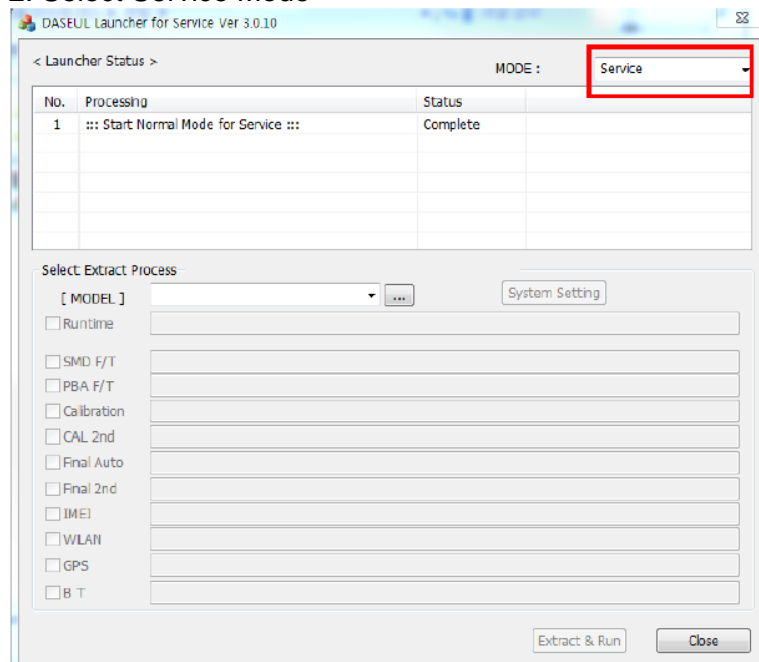
6. Level 1 Repair

6-3-2. IMEI writing Process

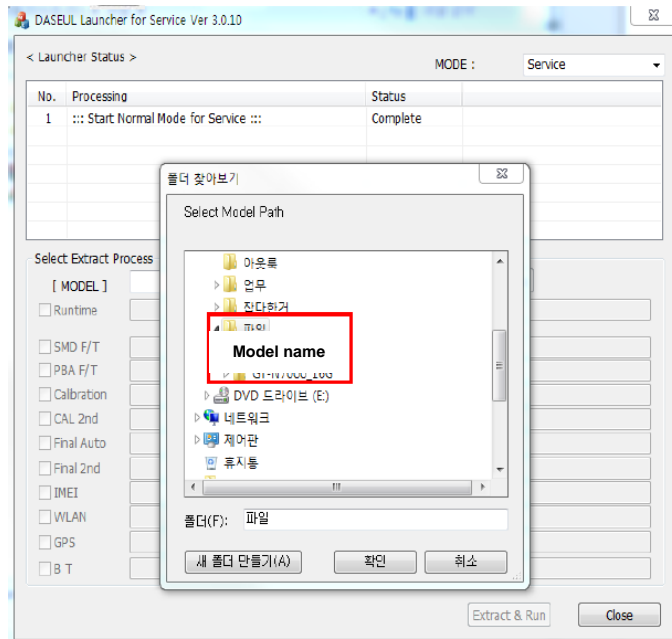
1. Run DASEUL_SVC_Launcher_v3.0.12.exe

 DASEUL_SVC_Launcher_v3.0.12.exe

2. Select Service Mode

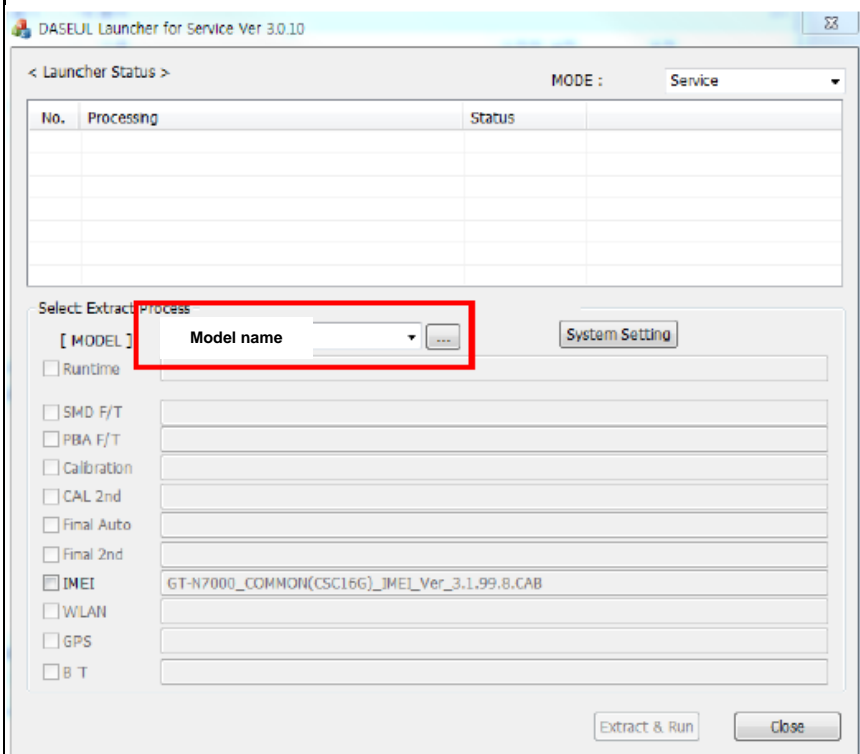


3. Click  and Select folder where the Launcher exists



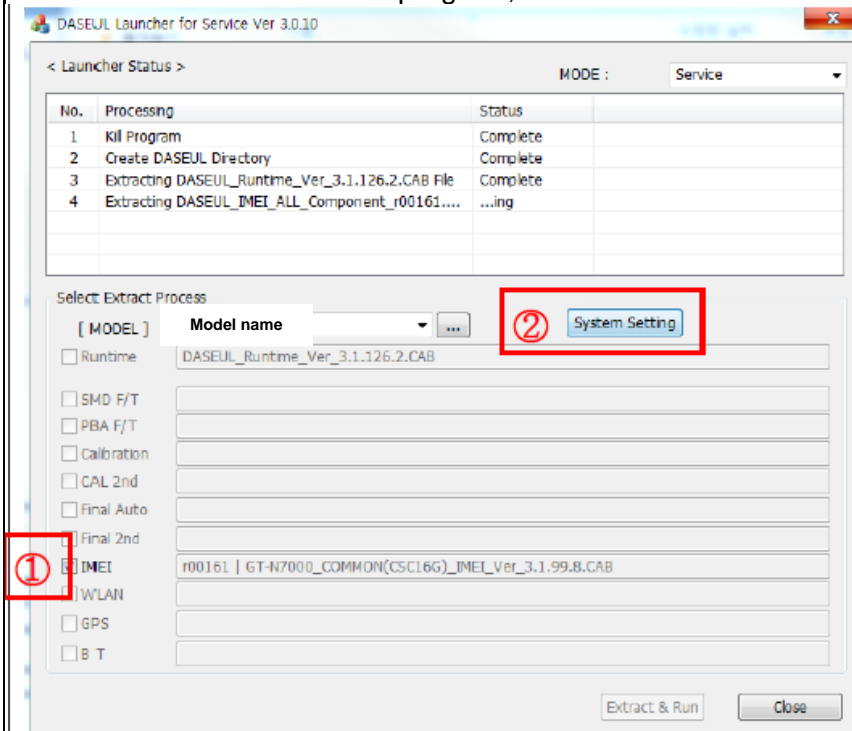
6. Level 1 Repair

4. Select Model



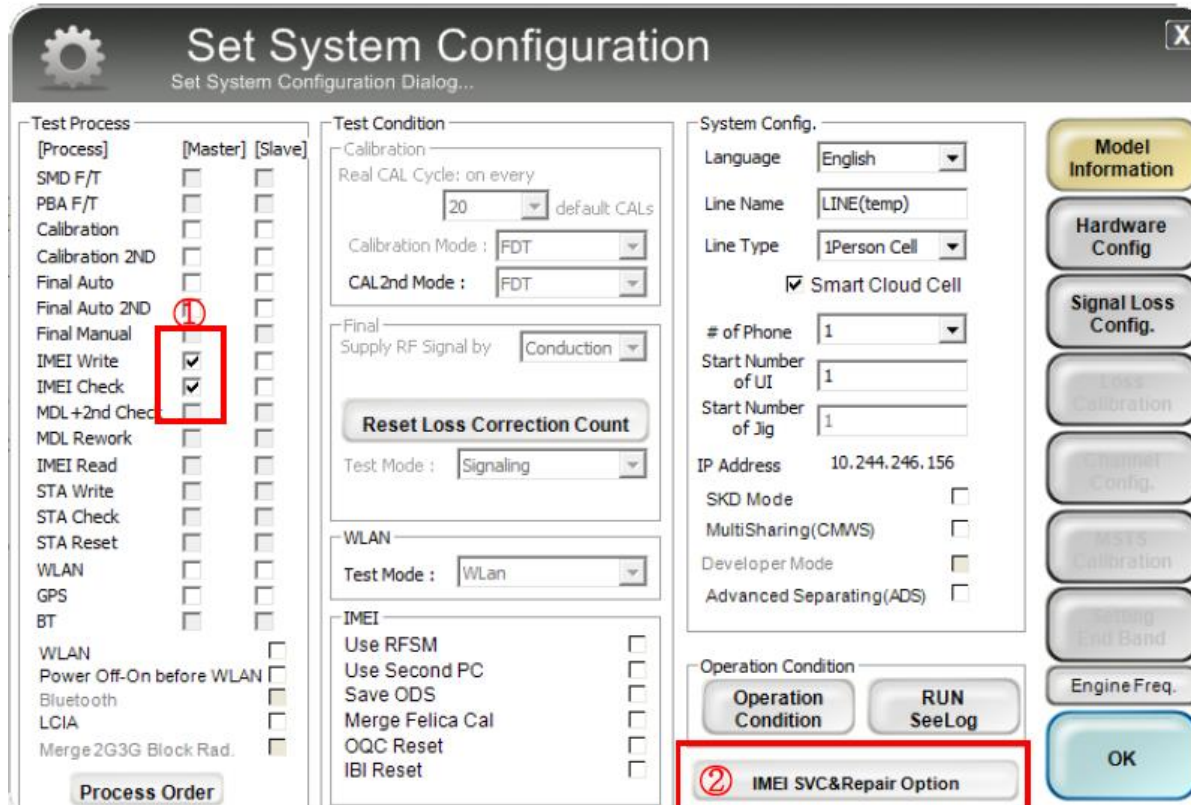
5. Check IMEI and click System Setting

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



6. Level 1 Repair

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



The 'Set System Configuration' dialog box is shown. It has a title bar with a gear icon and a close button. The main area is divided into several sections: 'Test Process' with a table of checkboxes for various tests; 'Test Condition' with settings for calibration and RF signal; 'System Config.' with settings for language, line name, and network; and a right-hand sidebar with buttons for 'Model Information', 'Hardware Config', 'Signal Loss Config.', 'Loss Calibration', 'Channel Config.', 'MMS Calibration', 'Setting End Band', and 'Engine Freq.'. At the bottom, there are buttons for 'Operation Condition', 'RUN SeeLog', and 'IMEI SVC&Repair Option' (which is circled in red and labeled with a circled 2). The 'IMEI Write' and 'IMEI Check' checkboxes in the 'Test Process' section are also checked and circled in red, with a circled 1 next to them.

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

Test Condition

Calibration

Real CAL Cycle: on every 20 default CALs

Calibration Mode: FDT

CAL2nd Mode: FDT

Final

Supply RF Signal by: Conduction

Reset Loss Correction Count

Test Mode: Signaling

WLAN

Test Mode: WLAN

IMEI

Use RFSM ☐

Use Second PC ☐

Save ODS ☐

Merge Felica Cal ☐

OQC Reset ☐

IBI Reset ☐

System Config.

Language: English

Line Name: LINE(temp)

Line Type: 1Person Cell

☒ Smart Cloud Cell

of Phone: 1

Start Number of UI: 1

Start Number of Jlg: 1

IP Address: 10.244.246.156

SKD Mode ☐

MultiSharing(CMWS) ☐

Developer Mode ☐

Advanced Separating(ADS) ☐

Operation Condition

Operation Condition

IMEI SVC&Repair Option

Model Information

Hardware Config

Signal Loss Config.

Loss Calibration

Channel Config.

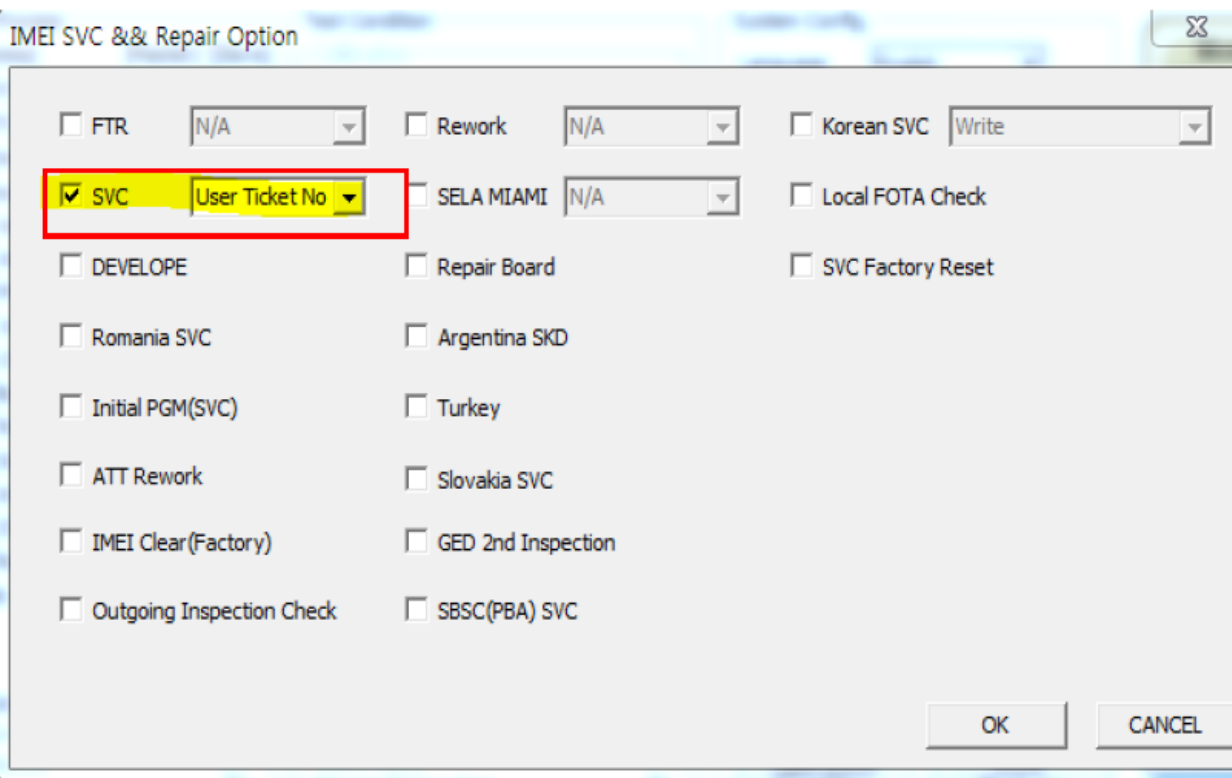
MMS Calibration

Setting End Band

Engine Freq.

OK

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



The 'IMEI SVC & Repair Option' dialog box is shown. It has a title bar with a close button. The main area contains several checkboxes and dropdown menus. The 'SVC' checkbox is checked, and the 'User Ticket No' dropdown menu is selected. The 'FTR' dropdown menu is set to 'N/A'. The 'Rework' dropdown menu is set to 'N/A'. The 'Korean SVC' dropdown menu is set to 'Write'. The 'SELA MIAMI' dropdown menu is set to 'N/A'. The 'Local FOTA Check' checkbox is unchecked. The 'DEVELOPE' checkbox is unchecked. The 'Repair Board' checkbox is unchecked. The 'SVC Factory Reset' checkbox is unchecked. The 'Romania SVC' checkbox is unchecked. The 'Argentina SKD' checkbox is unchecked. The 'Initial PGM(SVC)' checkbox is unchecked. The 'Turkey' checkbox is unchecked. The 'ATT Rework' checkbox is unchecked. The 'Slovakia SVC' checkbox is unchecked. The 'IMEI Clear(Factory)' checkbox is unchecked. The 'GED 2nd Inspection' checkbox is unchecked. The 'Outgoing Inspection Check' checkbox is unchecked. The 'SBSC(PBA) SVC' checkbox is unchecked. At the bottom, there are 'OK' and 'CANCEL' buttons.

IMEI SVC & Repair Option

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

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

☐ DEVELOPE ☐ Repair Board ☐ SVC Factory Reset

☐ Romania SVC ☐ Argentina SKD

☐ Initial PGM(SVC) ☐ Turkey

☐ ATT Rework ☐ Slovakia SVC

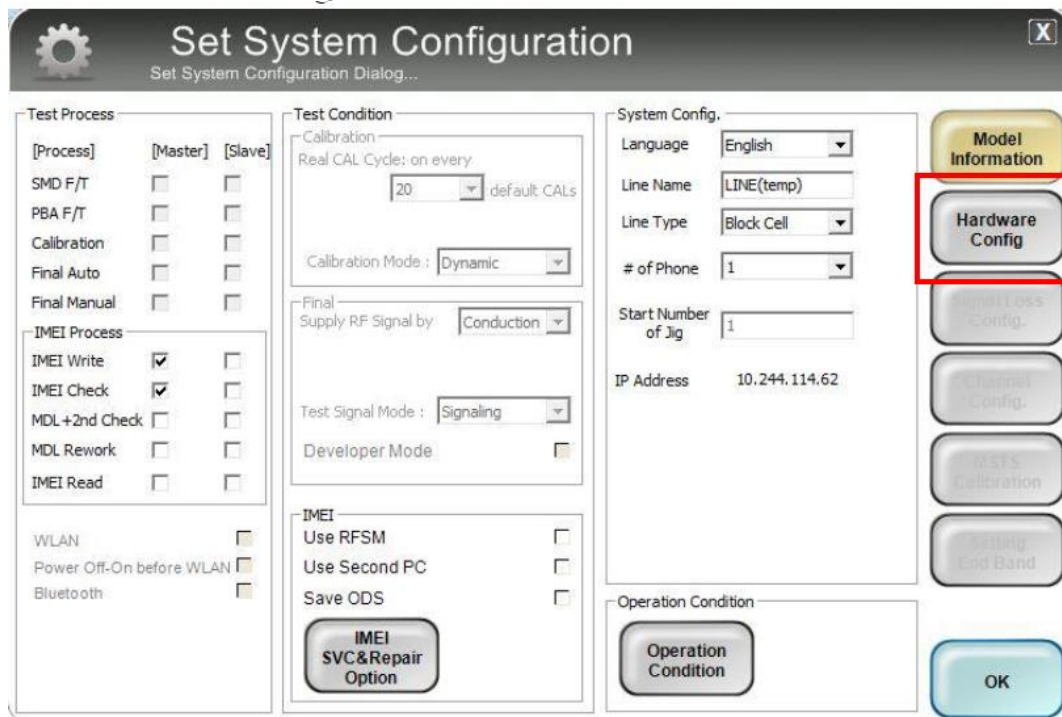
☐ IMEI Clear(Factory) ☐ GED 2nd Inspection

☐ Outgoing Inspection Check ☐ SBSC(PBA) SVC

OK CANCEL

6. Level 1 Repair

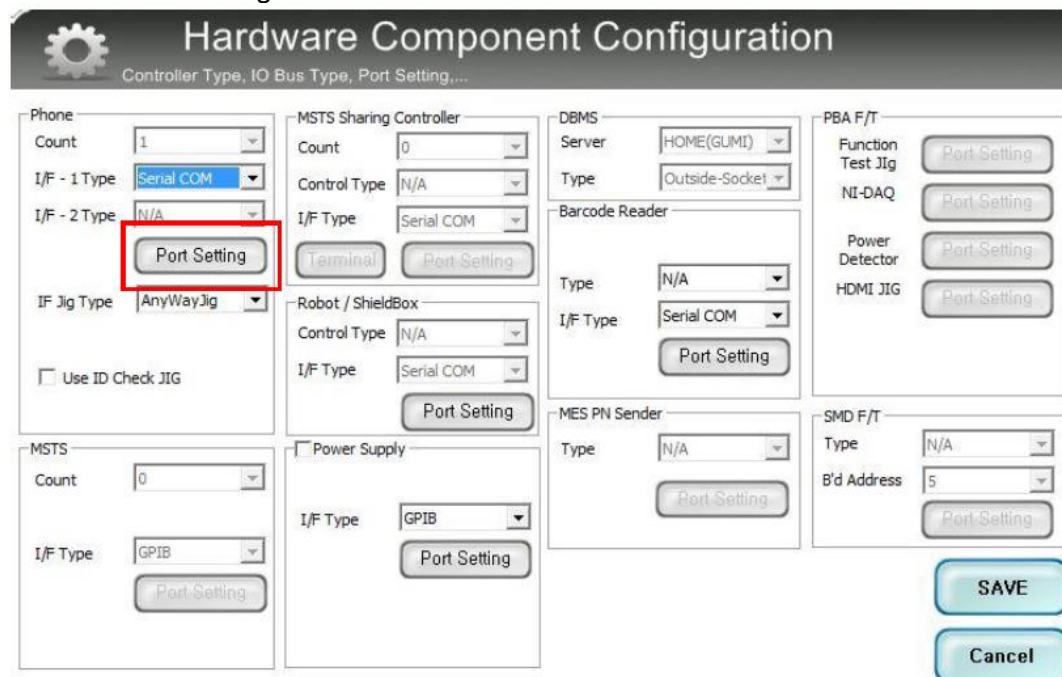
8. Click 'Hardware Config'



The 'Set System Configuration' dialog box is shown with the 'Hardware Config' button highlighted in a red box. The dialog is divided into several sections:

- Test Process:** Includes checkboxes for [Process], [Master], and [Slave] for SMD F/T, PBA F/T, Calibration, Final Auto, and Final Manual. It also has an IMEI Process section with checkboxes for IMEI Write, IMEI Check, MDL +2nd Check, MDL Rework, and IMEI Read.
- Test Condition:** Includes a Calibration section with a Real CAL Cycle (20) and a Calibration Mode (Dynamic). It also has a Final section with a Supply RF Signal by (Conduction) and a Test Signal Mode (Signaling). There is a Developer Mode checkbox.
- System Config:** Includes a Language dropdown (English), Line Name (LINE(temp)), Line Type (Block Cell), # of Phone (1), Start Number of Jig (1), and IP Address (10.244.114.62).
- Model Information:** A vertical stack of buttons: Model Information, Hardware Config (highlighted), Signal Loss Config., Channel Config., MSTs Calibration, and Setting End Band.
- IMEI:** Includes checkboxes for Use RFSM, Use Second PC, and Save ODS, along with an IMEI SVC&Repair Option button.
- Operation Condition:** Includes an Operation Condition button.
- WLAN:** Includes checkboxes for WLAN, Power Off-On before WLAN, and Bluetooth.
- Buttons:** OK and Cancel buttons at the bottom right.

9. Click 'Port Setting'



The 'Hardware Component Configuration' dialog box is shown with the 'Port Setting' button highlighted in a red box. The dialog is divided into several sections:

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

6. Level 1 Repair

10. Select Port Number and SAVE

Set IO BUS Configuration

Phone IO Bus Setting

Common

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

No.	Port #1
1	1

SAVE

Cancel

11. Click OK to proceed

Set System Configuration

Set System Configuration Dialog...

Test Process

[Process] [Master] [Slave]

SMD F/T ☐ ☐

PBA F/T ☐ ☐

Calibration ☐ ☐

Final Auto ☐ ☐

Final Manual ☐ ☐

IMEI Process

IMEI Write ☒ ☐

IMEI Check ☒ ☐

MDL+2nd Check ☐ ☐

MDL Rework ☐ ☐

IMEI Read ☐ ☐

WLAN ☐

Power Off-On before WLAN ☐

Bluetooth ☐

Test Condition

Calibration

Real CAL Cycle: on every 20 default: CALs

Calibration Mode: Dynamic

Final Supply RF Signal by: Conduction

Test Signal Mode: Signaling

Developer Mode ☐

IMEI

Use RFSM ☐

Use Second PC ☐

Save ODS ☐

IMEI SVC&Repair Option

System Config.

Language: English

Line Name: LINE(temp)

Line Type: Block Cell

of Phone: 1

Start Number of Jig: 1

IP Address: 10.244.114.62

Operation Condition

Operation Condition

Model Information

Hardware Config

Screen Lock Config.

Channel Config.

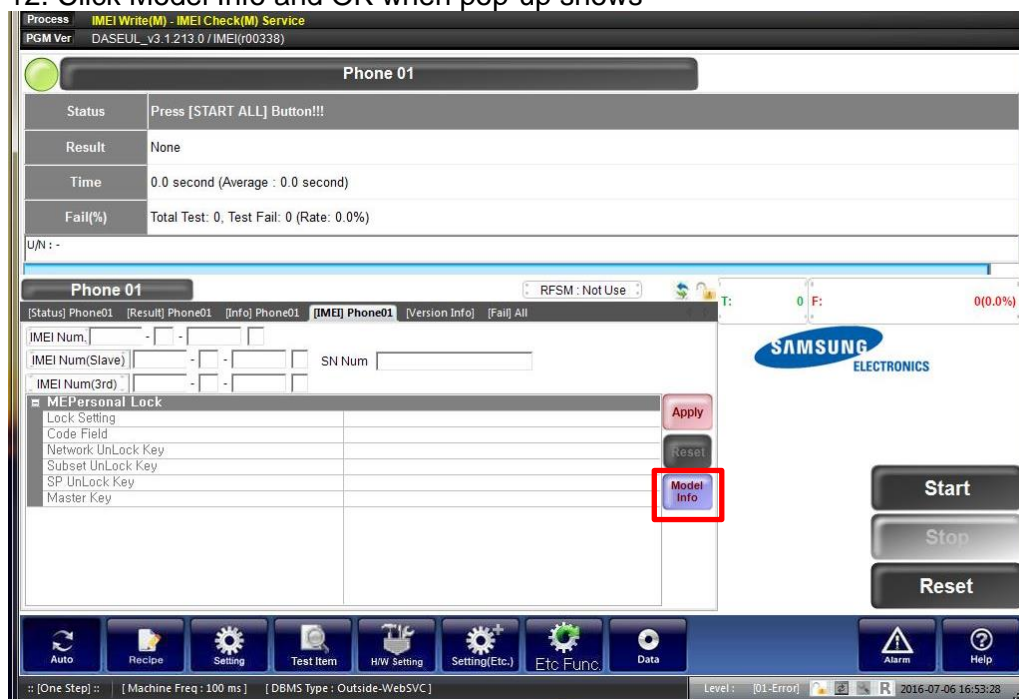
WIFI Calibration

Setting End Band

OK

6. Level 1 Repair

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



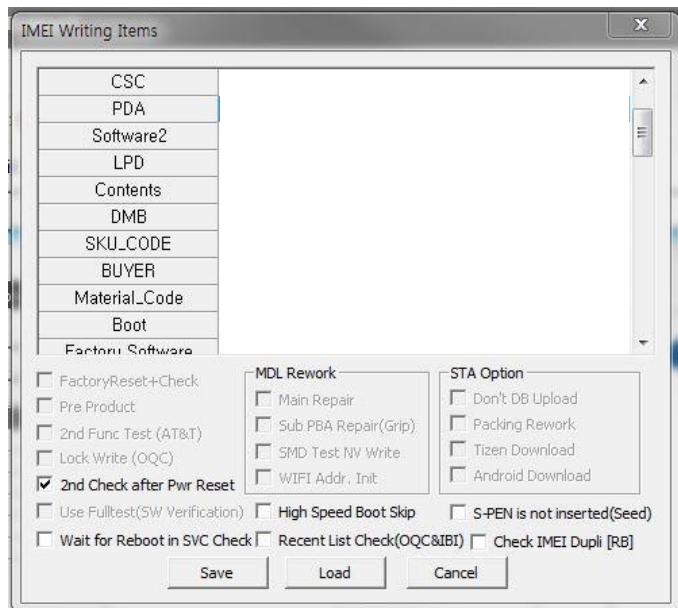
13. Click OK



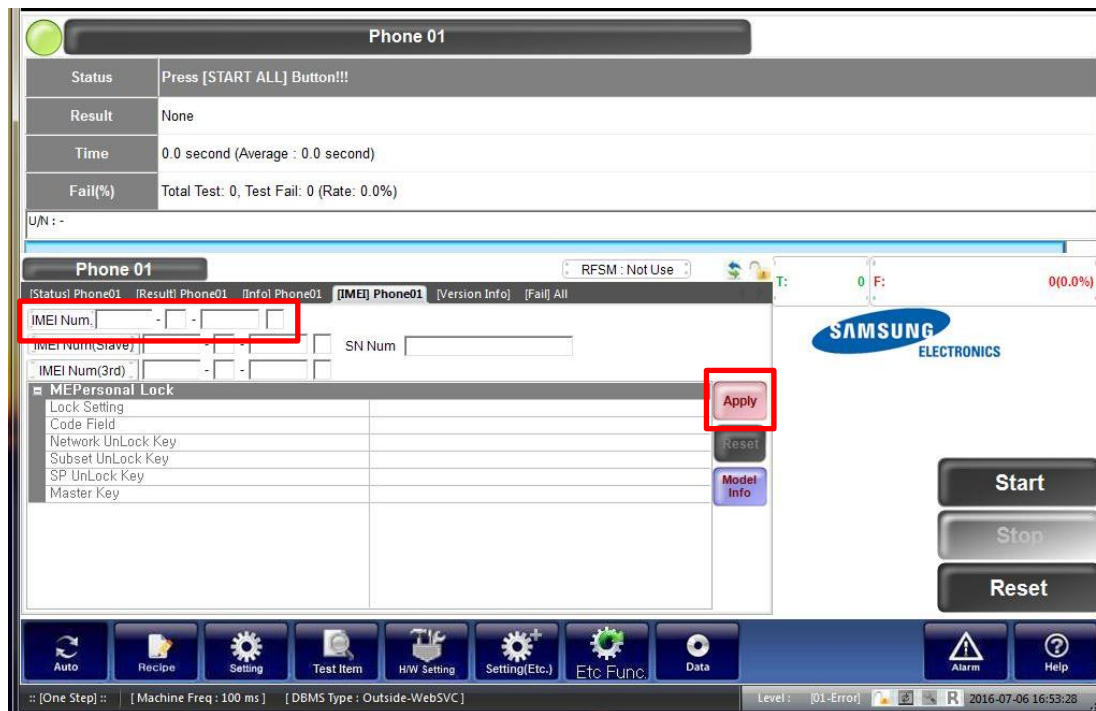
6. Level 1 Repair

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

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

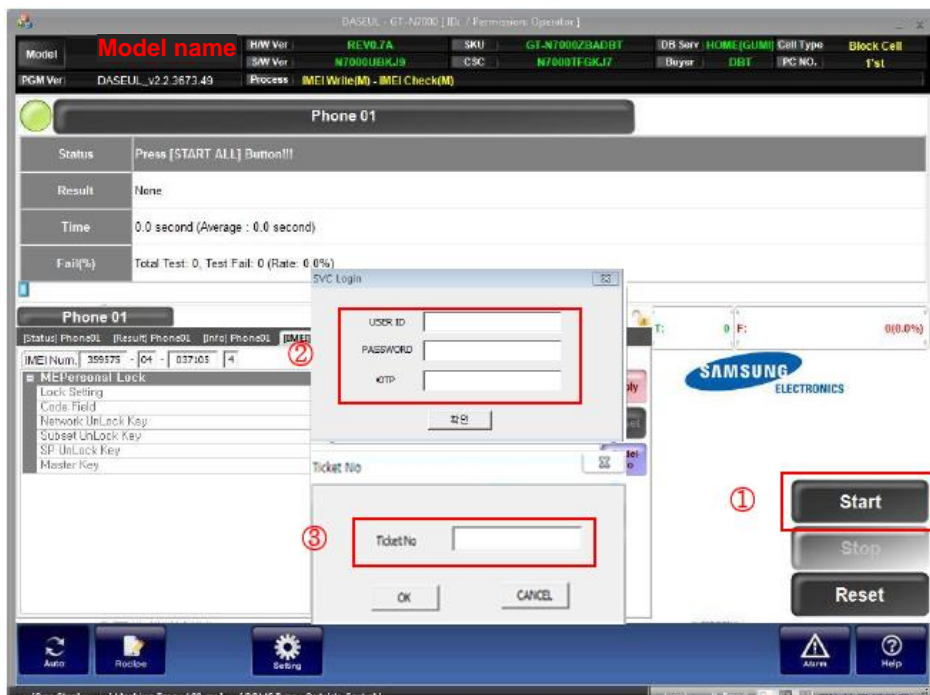


15. Input IMEI Number and click Apply



6. Level 1 Repair

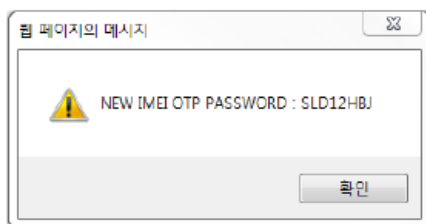
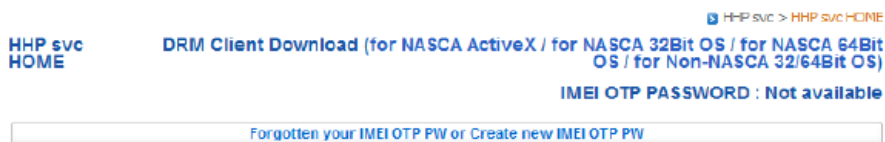
16. ① Click Start → ② Input IMEI writing ID and Password & OTP → ③ Input Ticket No



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

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

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

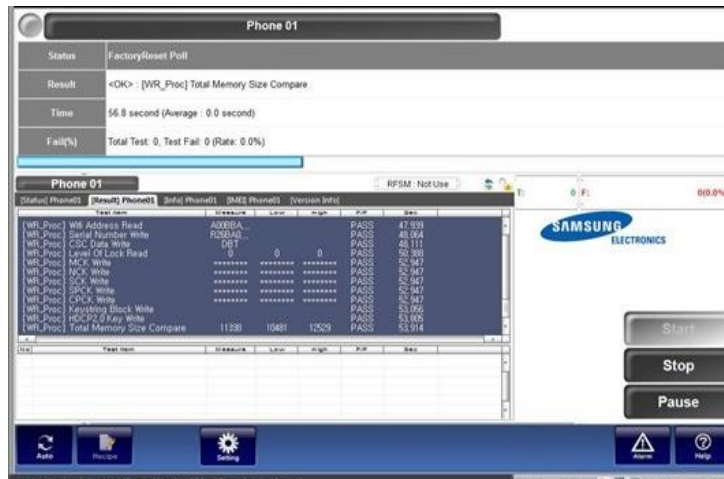


6. Level 1 Repair

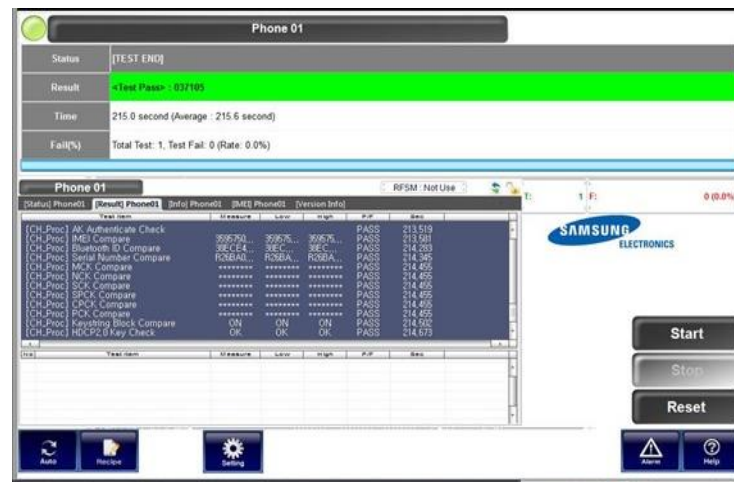
17. Connect the phone to Anyway JIG

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

18. IMEI Writing Proceeding

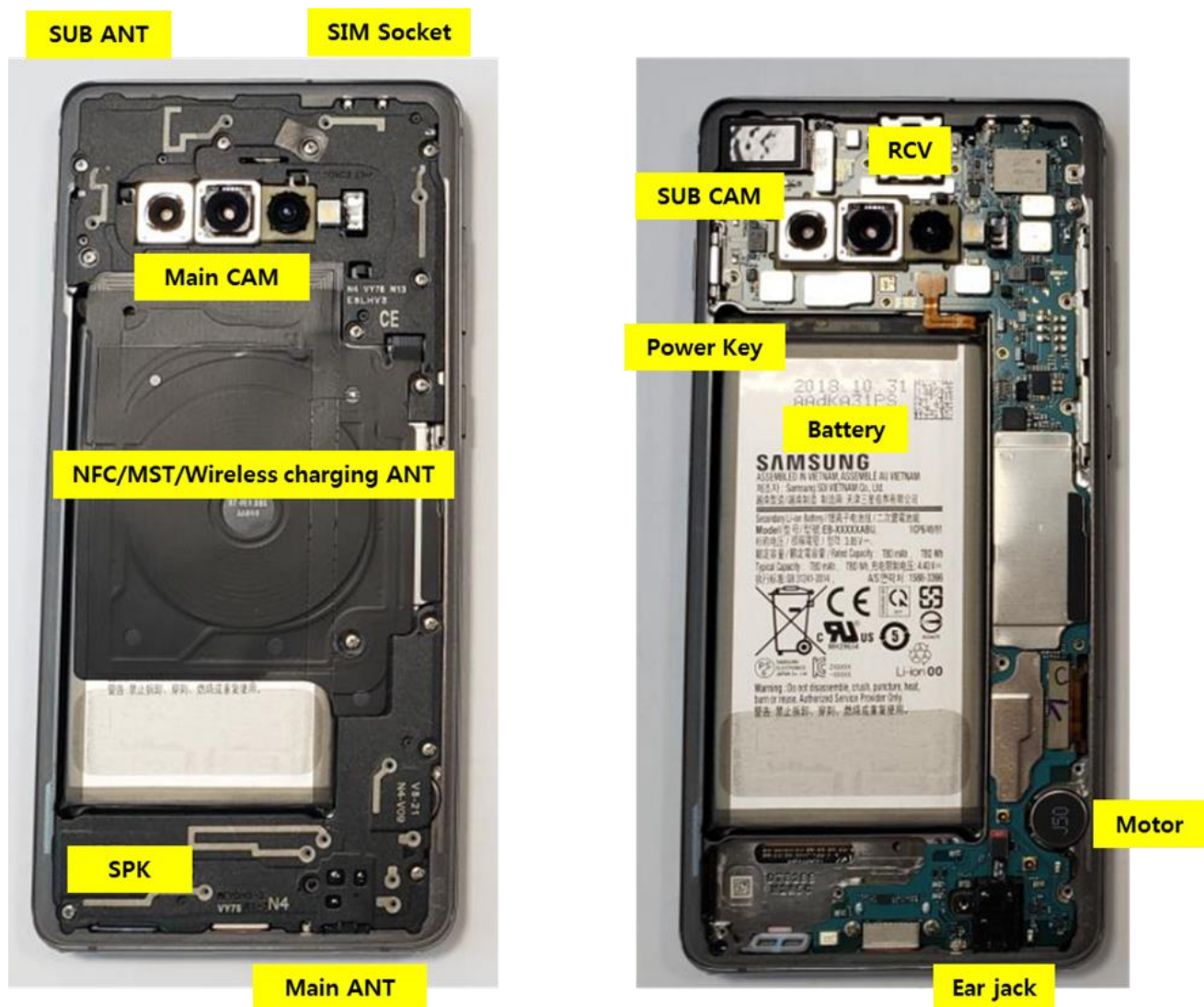


19. IMEI Writing Success



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	KIT CODE	Image	Remarks
A/S-SVC BACKGLASS OUTSIDE TAPE (Normal) [GH81-16501A] (Ceramic) [GH81-16592A]	(Normal) [GH82-18801A] (Ceramic) [GH82-18802A]		Replace for Back Glass
A/S-SVC CAM SEALING TAPE (Common) [GH02-17605A]			
Mic sealing tape [GH02-07406A]			
3 screws for PBA [6001-003360]		※ 3 Screws on the PBA cannot be reused, replace the new 3 screws after removing the 3 screws.	

7. Level 2 Repair

7-4. Disassembly

1

Put the device in the chamber as following below heating condition

- SOC 68%↓: 70°C/10~20 minute
- SOC 68%↑: 60°C/10~20 minute

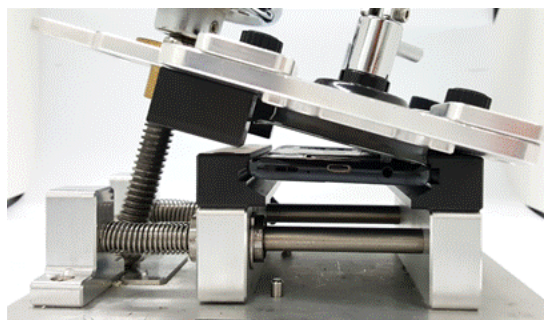
※ Please confirm the heating condition released lastly, and follow it.



2

Detach the Back Glass.

Detach the left side of Back glass



※ Caution

Be care of scratch.

※ Caution

Be care of scratch.

3

Unscrew 16 Point and disassemble SIM Tray from device.



4

Disassemble Upper Rear.

(Use disassemble hole left/right side of Rear to detach it)



Rear Top disassemble hole.

※ Caution

Be care of Rear damage.

※ Caution

- 1) Be care of scratch.
- 2) Be care of Rear and connector damage.
- 3) Be care of NFC ANT damage.

7. Level 2 Repair

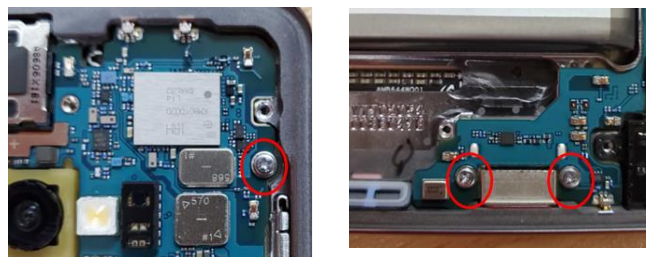
5

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



6

Unscrew PBA 3points.



※ Caution

- 1) Be care of scratch.
- 2) Be care of Rear and connector damage.
- 3) Be careful not to damage the PBA.

※ Caution

- 1) Be careful not to damage the PBA.
- 2) 3 Screws on the PBA cannot be reused, replace the new 3 screws after removing the 3 screws.

7

Detach Battery connect and the other connectors. (4 Point)



8

Detach Front cam.



※ Caution

- 1) Be care of scratch.
- 2) Be care of connector damage.

※ Caution

Be care of Front CAM / connector damage.

7. Level 2 Repair

9

Detach Ear JACK
(Use disassemble point)



10

Detach SUB PBA.



※ **Caution**
Be care of Ear jack connector.

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

11

Detach Main CAM.



12

Detach RCV and Motor.



※ **Caution**
Be careful not to damage the Main CAM.

※ **Caution**
Be careful not to damage the RCV/Motor.

7. Level 2 Repair

7-5. Assembly

1

Attach RVC,motor on Front.



2

attach Main CAM.



※ Caution

Be careful not to damage RVC,motor and Ear jack.

※ Caution

Be careful not to damage the Main CAM.

3

Attach PBA.

3-1



3-2



4

Attach SUB cam.
Assemble connector.
Cam module.

4-1



4-2



※ Caution

- 1) Be care of assemble USB.
- 2) Be care of PBA damage.

※ Caution

Be care of connector damage.

7. Level 2 Repair

5

Attach Ear Jack.



6

Attach batt, UB, Ear Jack
(3 Point)



※ Caution

Be care of PBA/Ear jack damage.

※ Caution

- 1) Be care of connector damage.
- 2) 3 Screws on the PBA cannot be reused, replace the new 3 screws after removing the 3 screws.

7

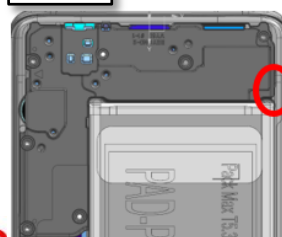
Screw PBA 3points.



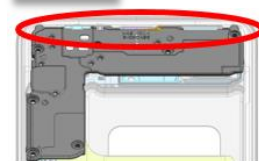
8

Assemble the Bottom REAR in sequence.

8-2



8-1



8-3



※ Caution

Be careful not to damage the PBA.

※ Caution

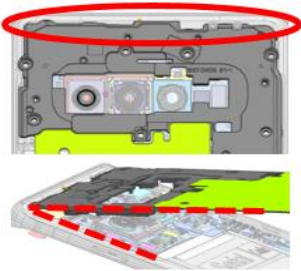
Be care of scratch and REAR damage.

7. Level 2 Repair

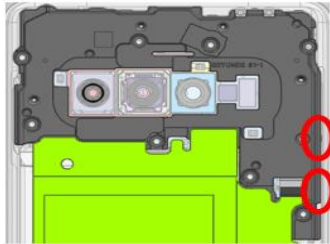
9

Assemble the TOP+MID REAR Assy in sequence.

9-1



9-2



10

Screw 16 Point and disassemble SIM Tray from device.



※ Caution
Be care of scratch and REAR damage.

※ Caution
Be care of Rear damage.

11

Attach the backglass



12

Press Back Glass.
Pressing force : 1N
Pressing time : 60 seconds

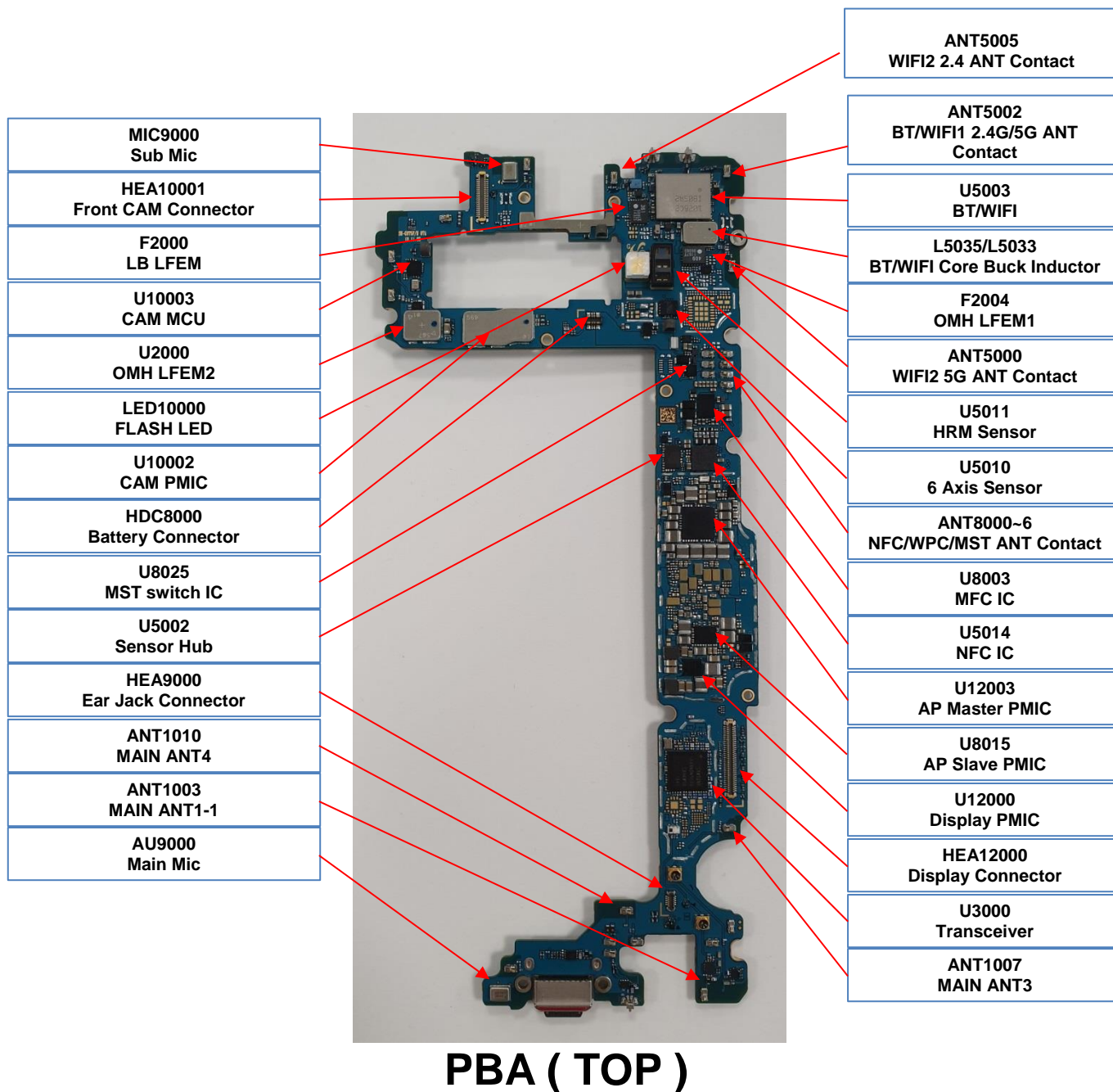


※ Caution
Be care of scratch and tilt.

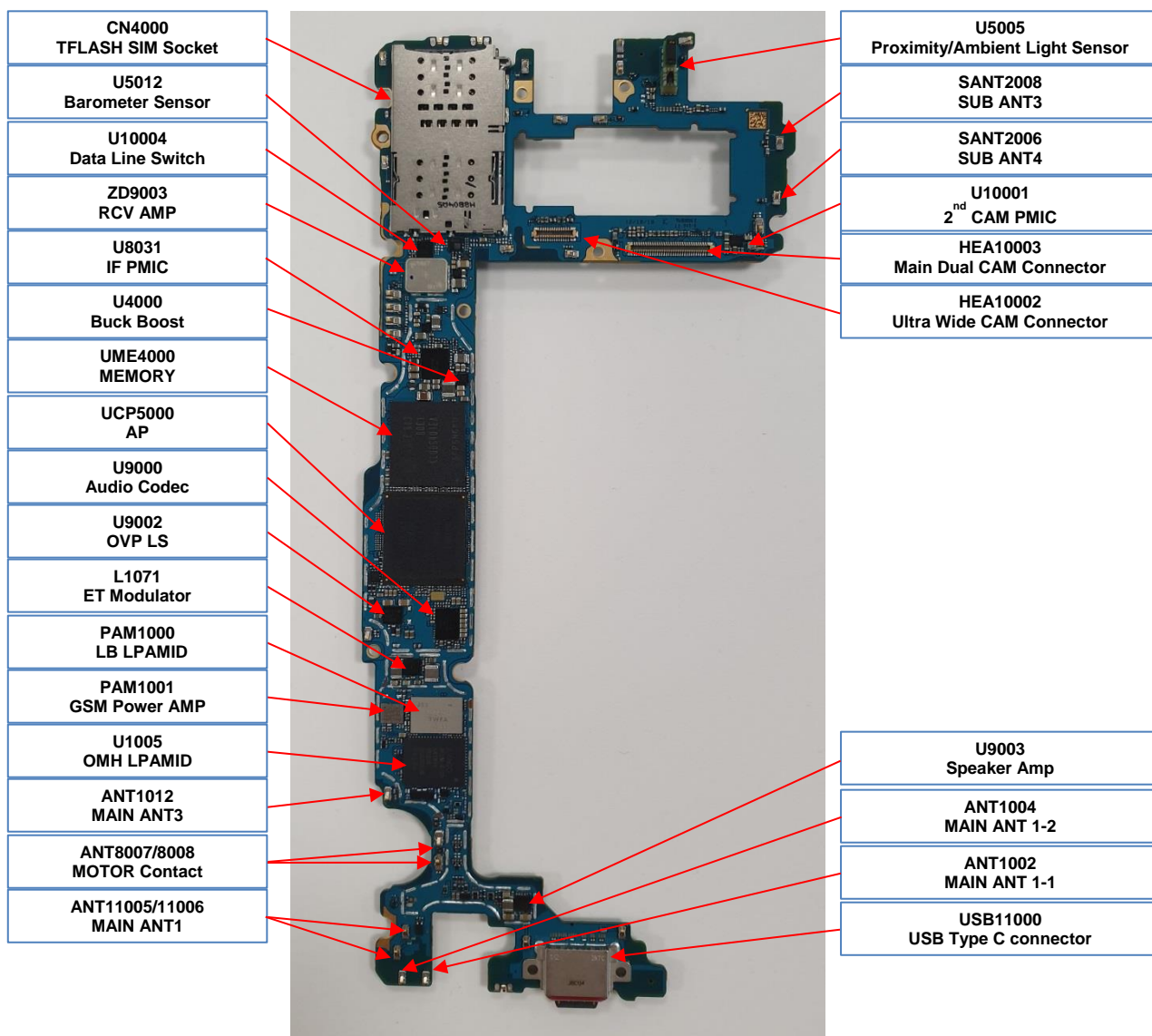
※ Caution
Be care of scratch.

8. Level 3 Repair

8-1. Components Layout



8. Level 3 Repair

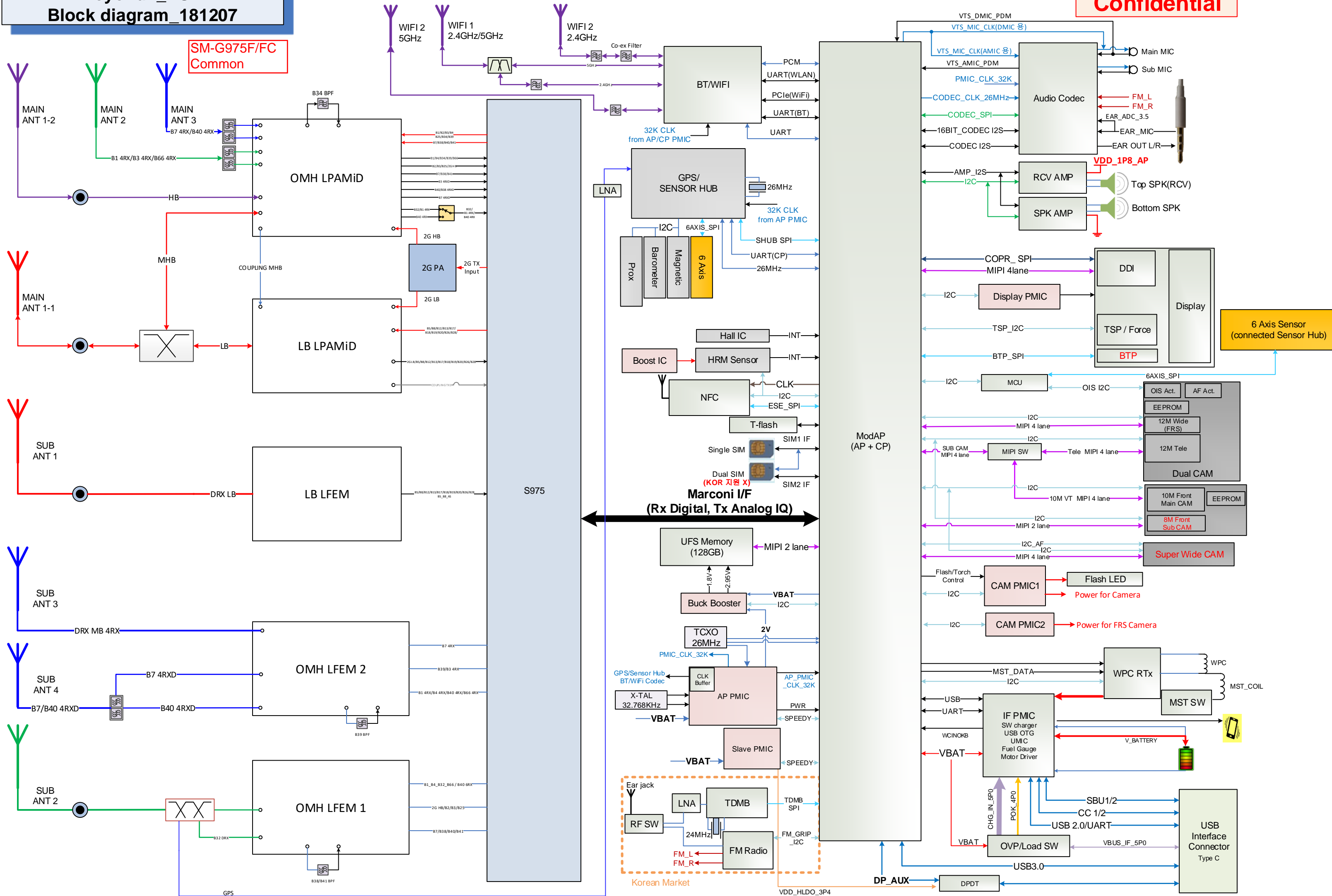


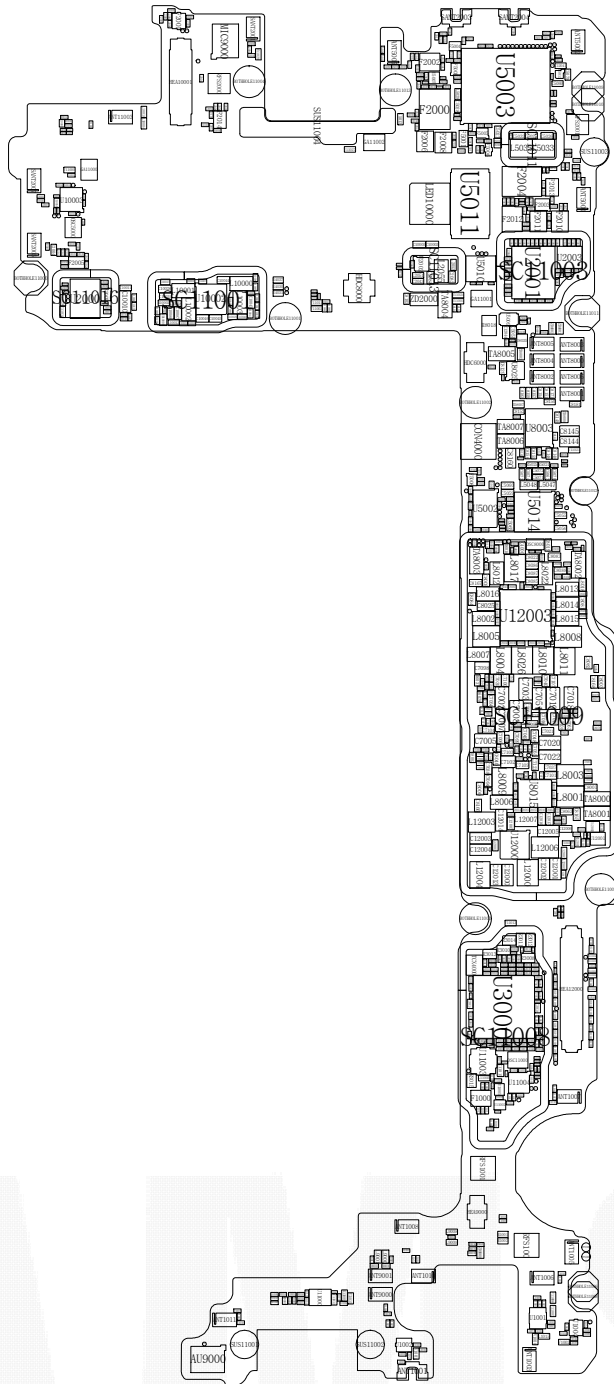
PBA (Bottom)

Beyond2_EUR
Block diagram_181207

SM-G975F/FC
Common

Confidential

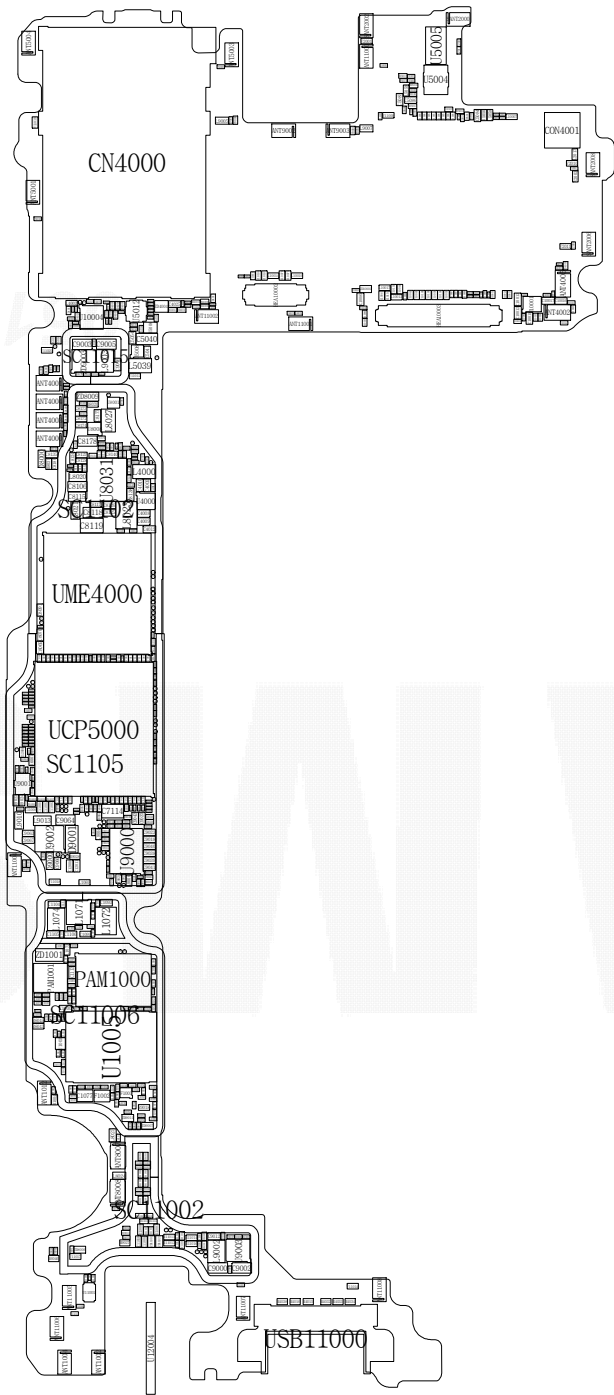




U12007

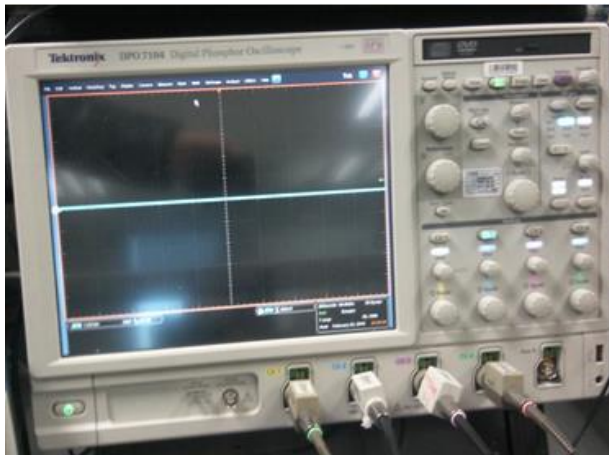
U12005

U12006



8. Level 3 Repair

8-3. Flow chart of Troubleshooting.



Oscilloscope



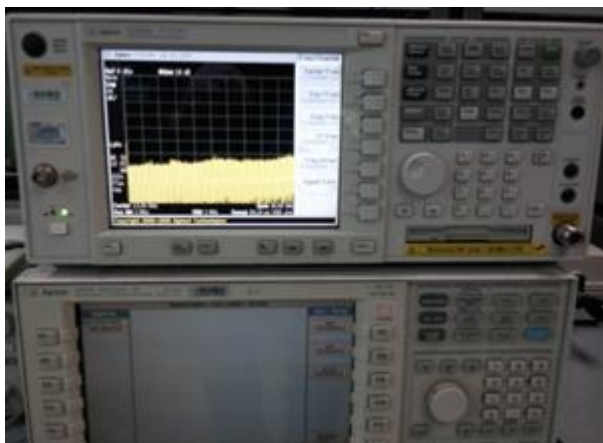
Digital Multimeter



Power Supply



+ driver, ESD Safe Tweezer



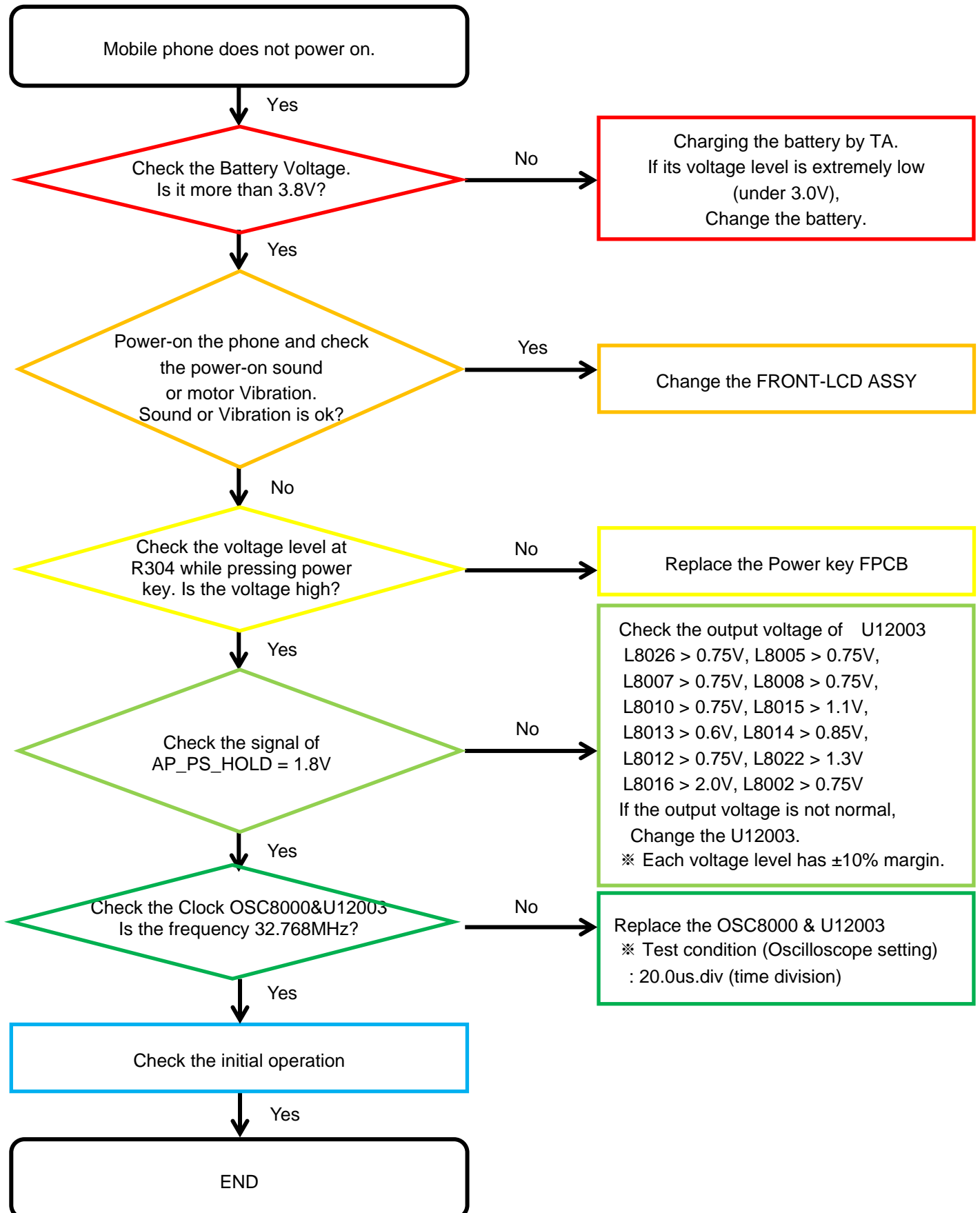
8960 & Spectrum Analyzer



Soldering iron

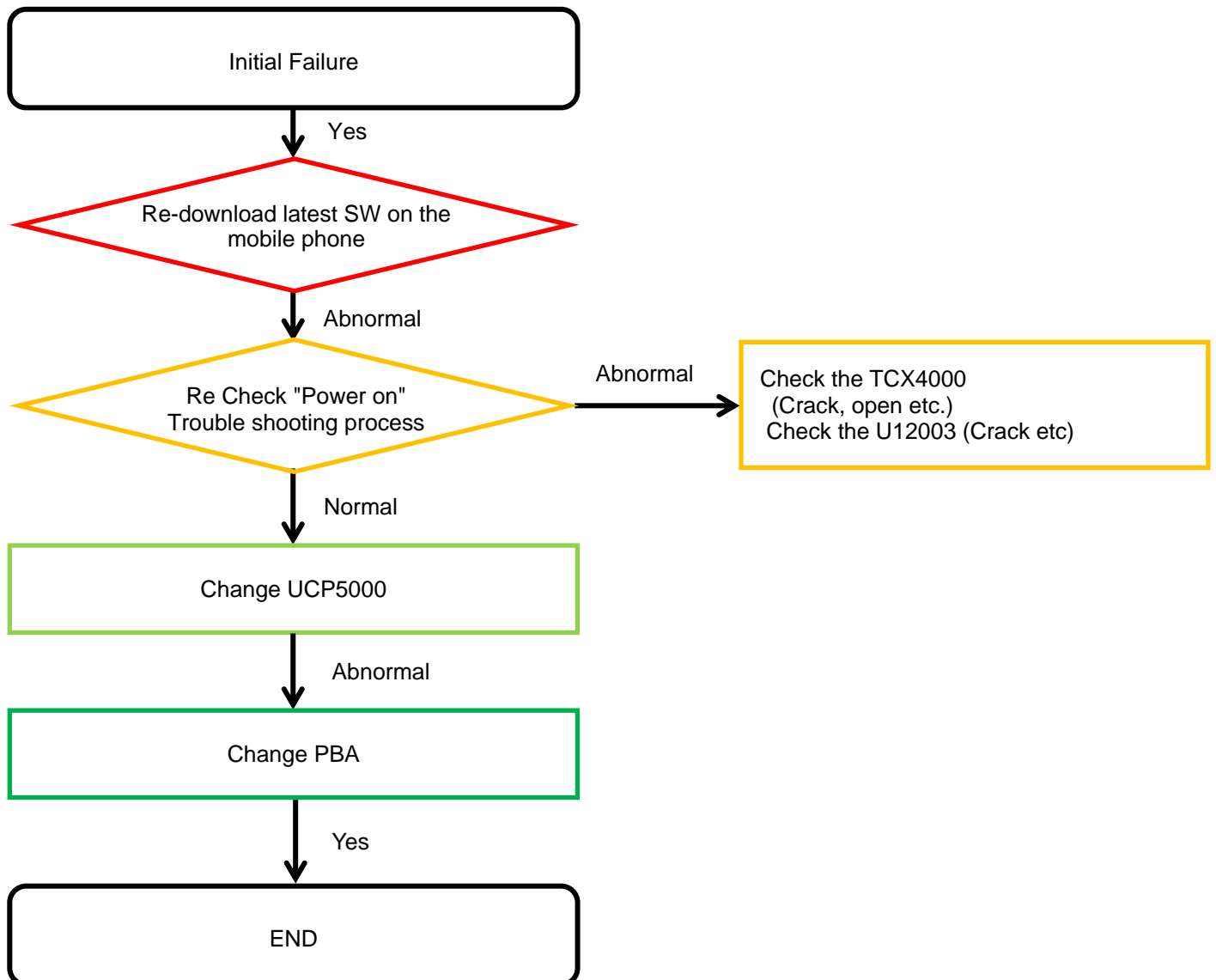
8. Level 3 Repair

8-4-1. Power On



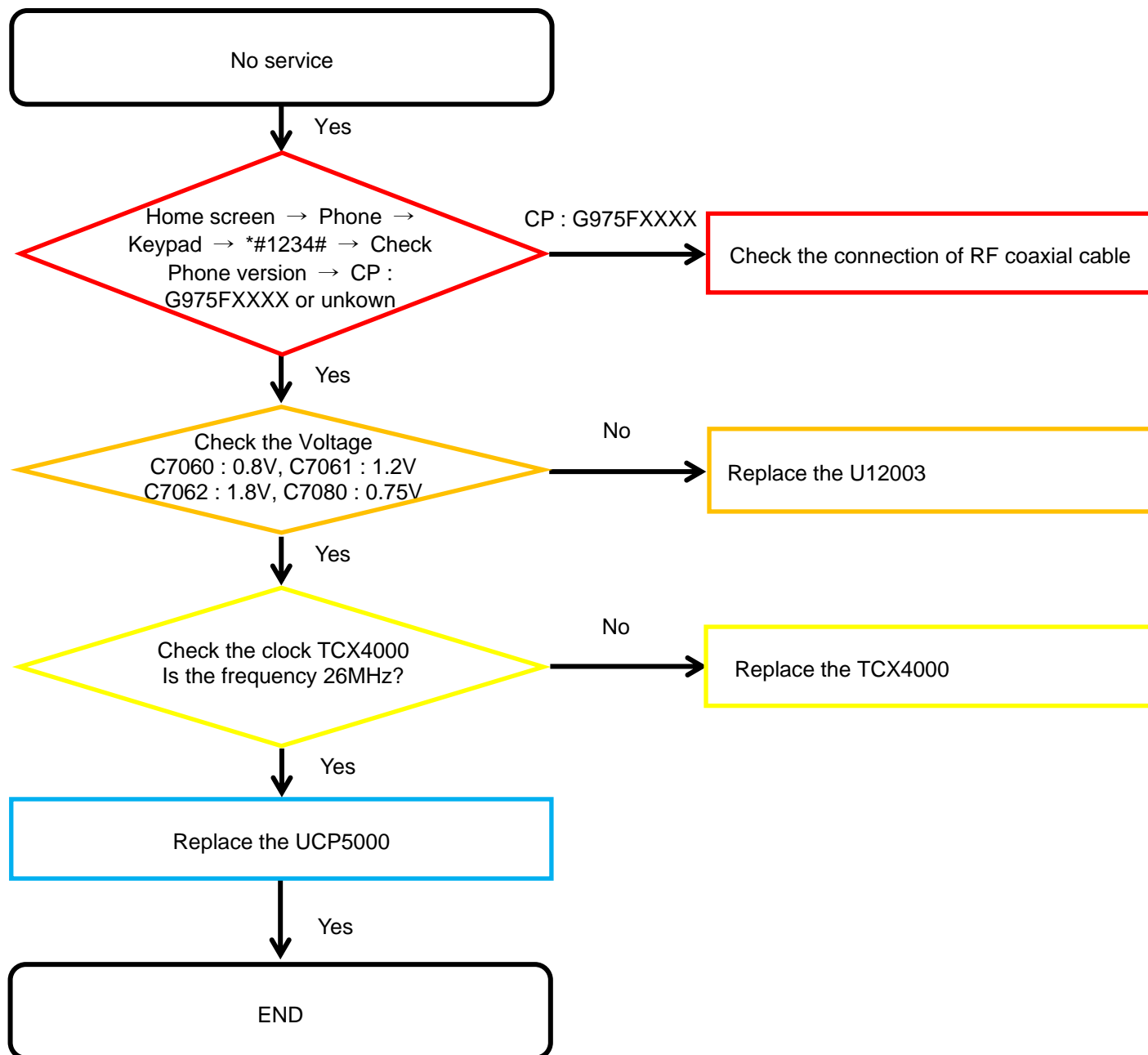
8. Level 3 Repair

8-4-2. Initial



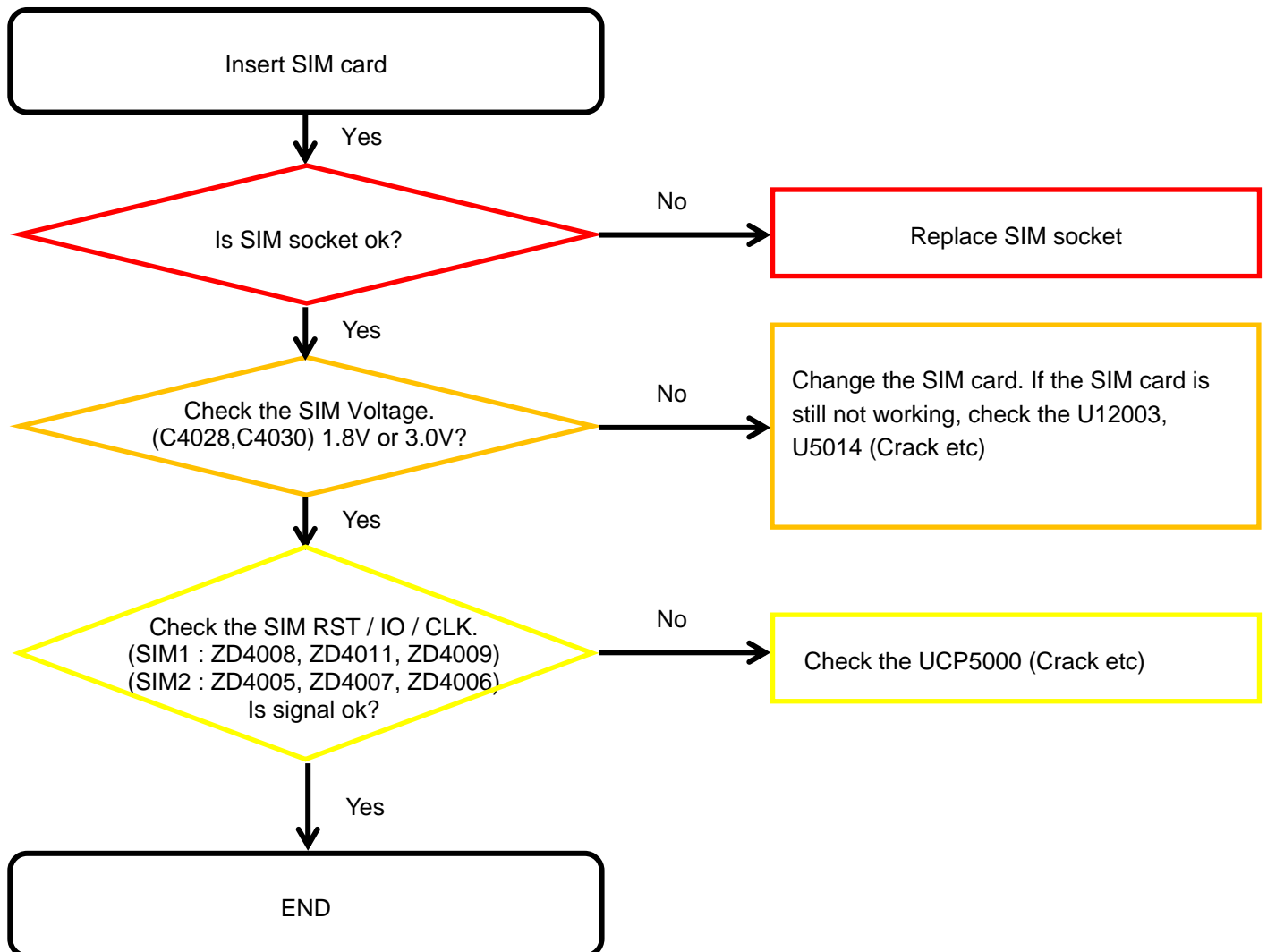
8. Level 3 Repair

8-4-3. No Service



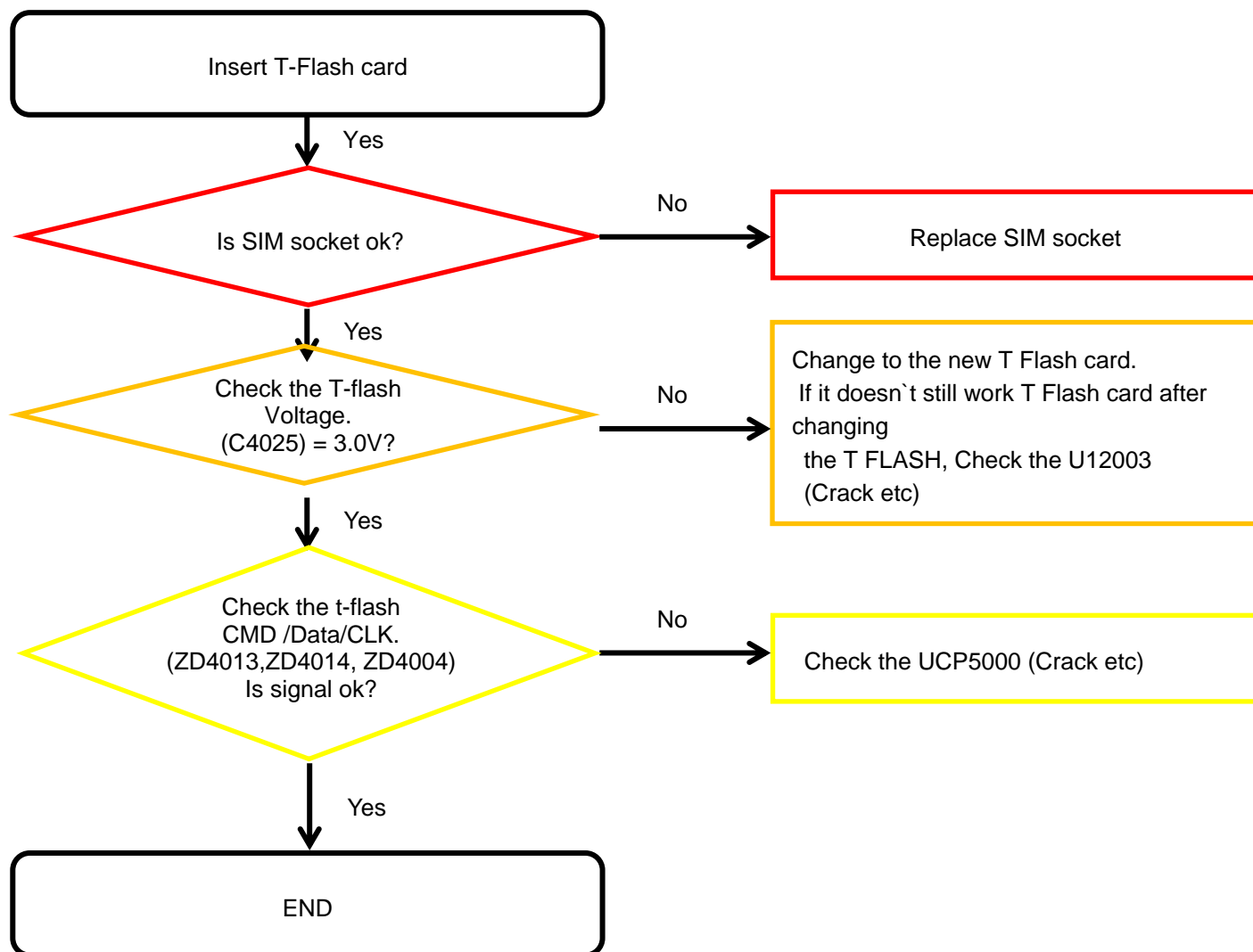
8. Level 3 Repair

8-4-4. SIM Part



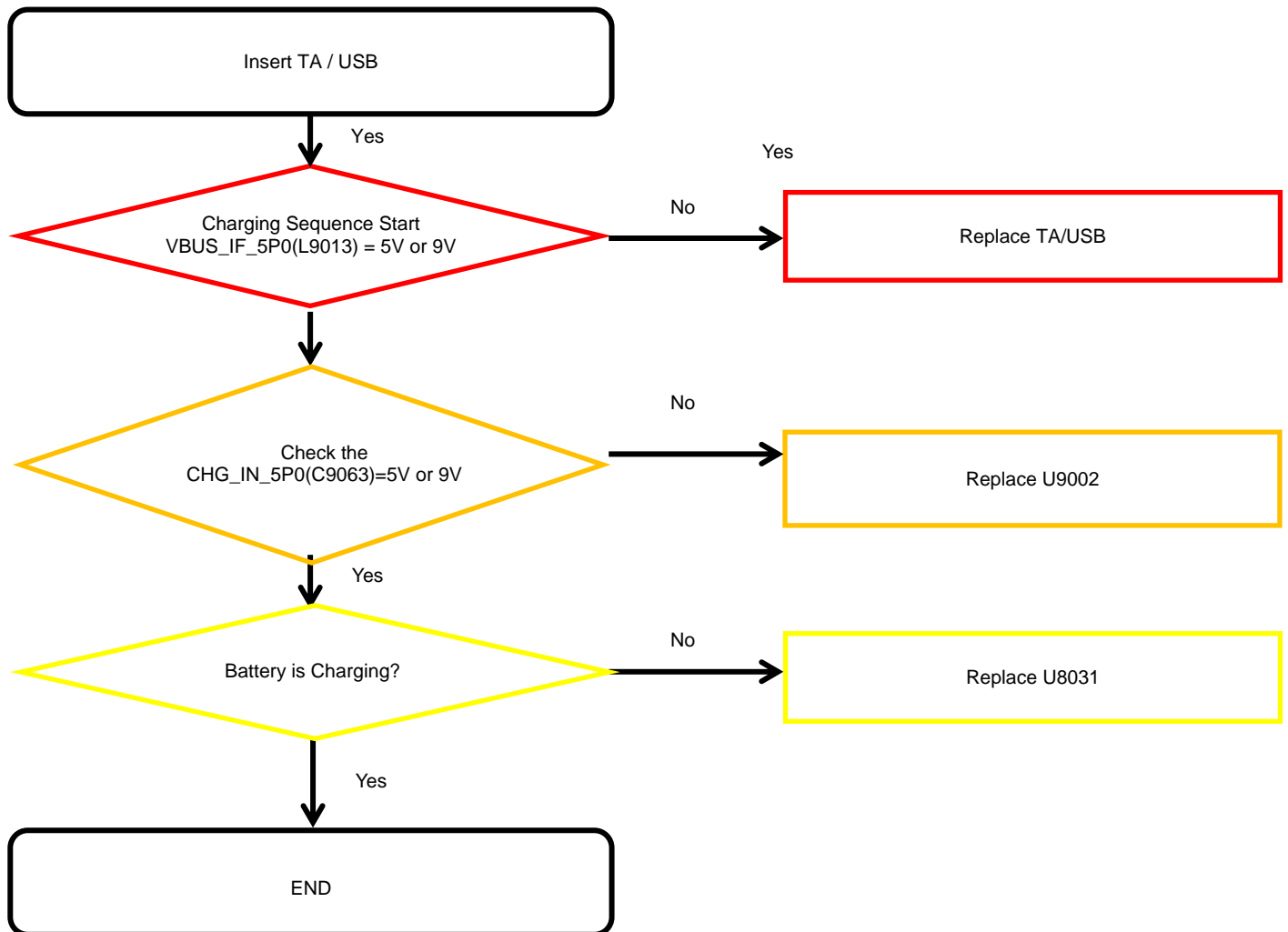
8. Level 3 Repair

8-4-5. T-Flash Part



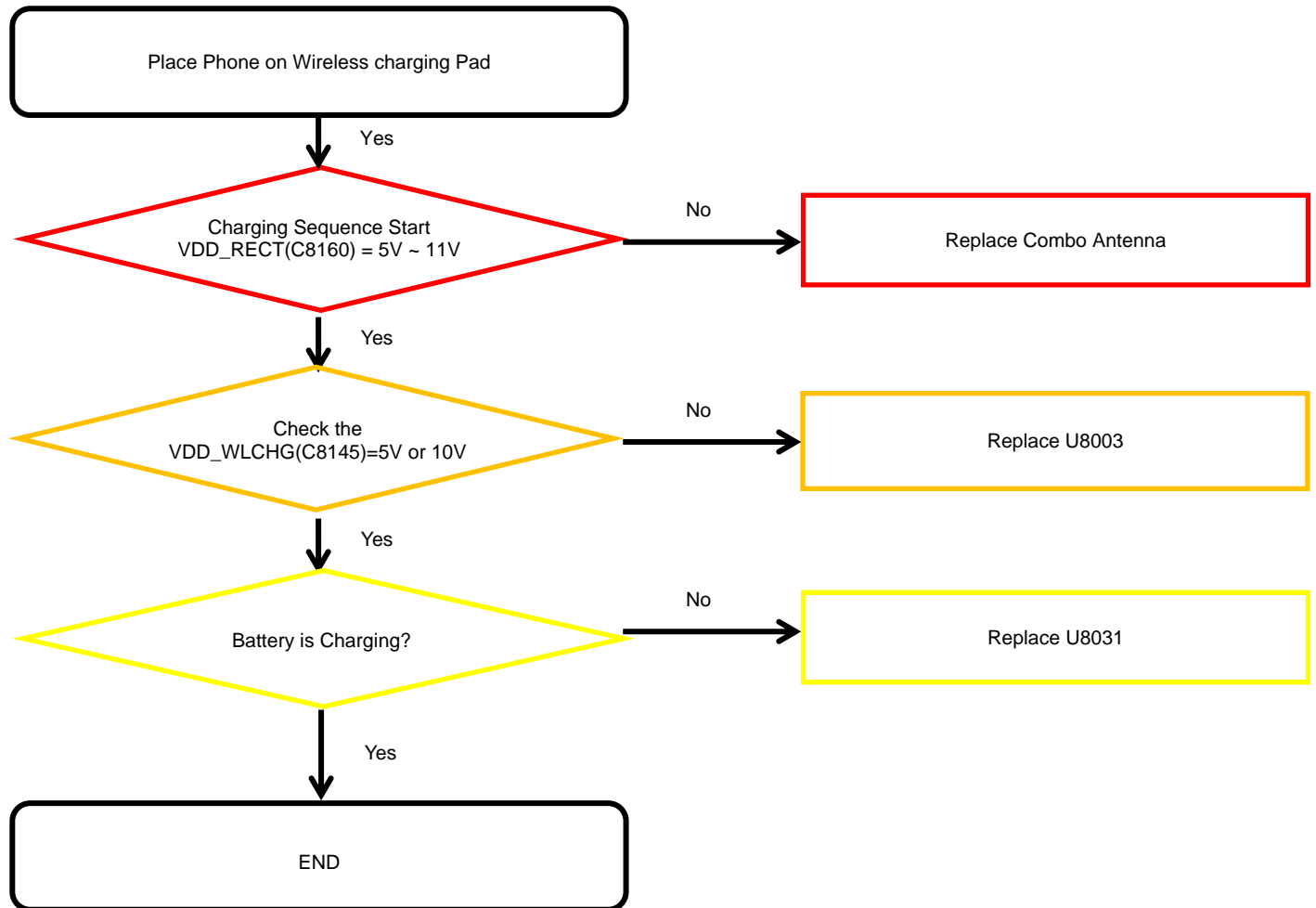
8. Level 3 Repair

8-4-6-1. Cable Charging Part (Normal/Fast)



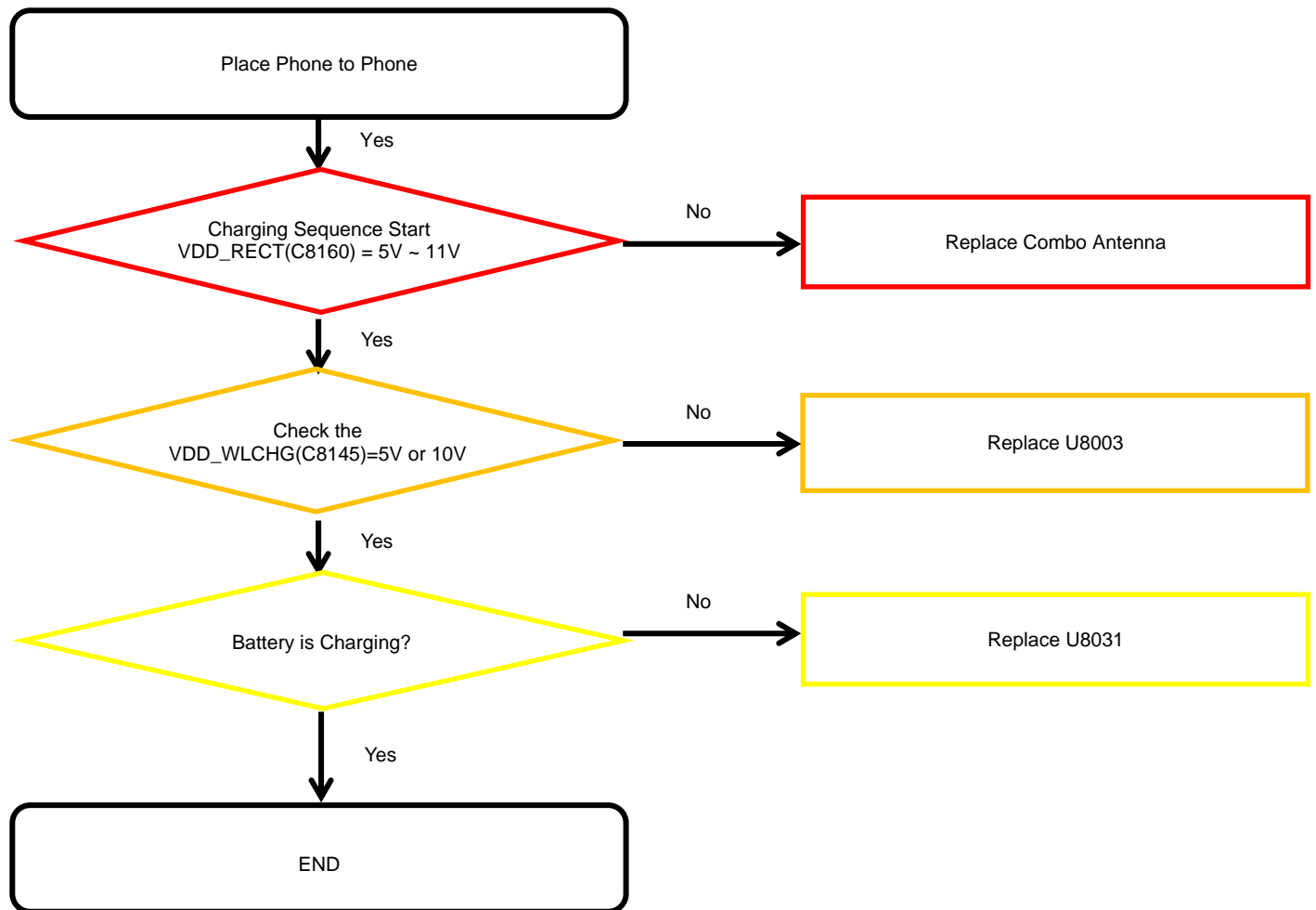
8. Level 3 Repair

8-4-6-2. Wireless Charging Part (Normal/Fast)



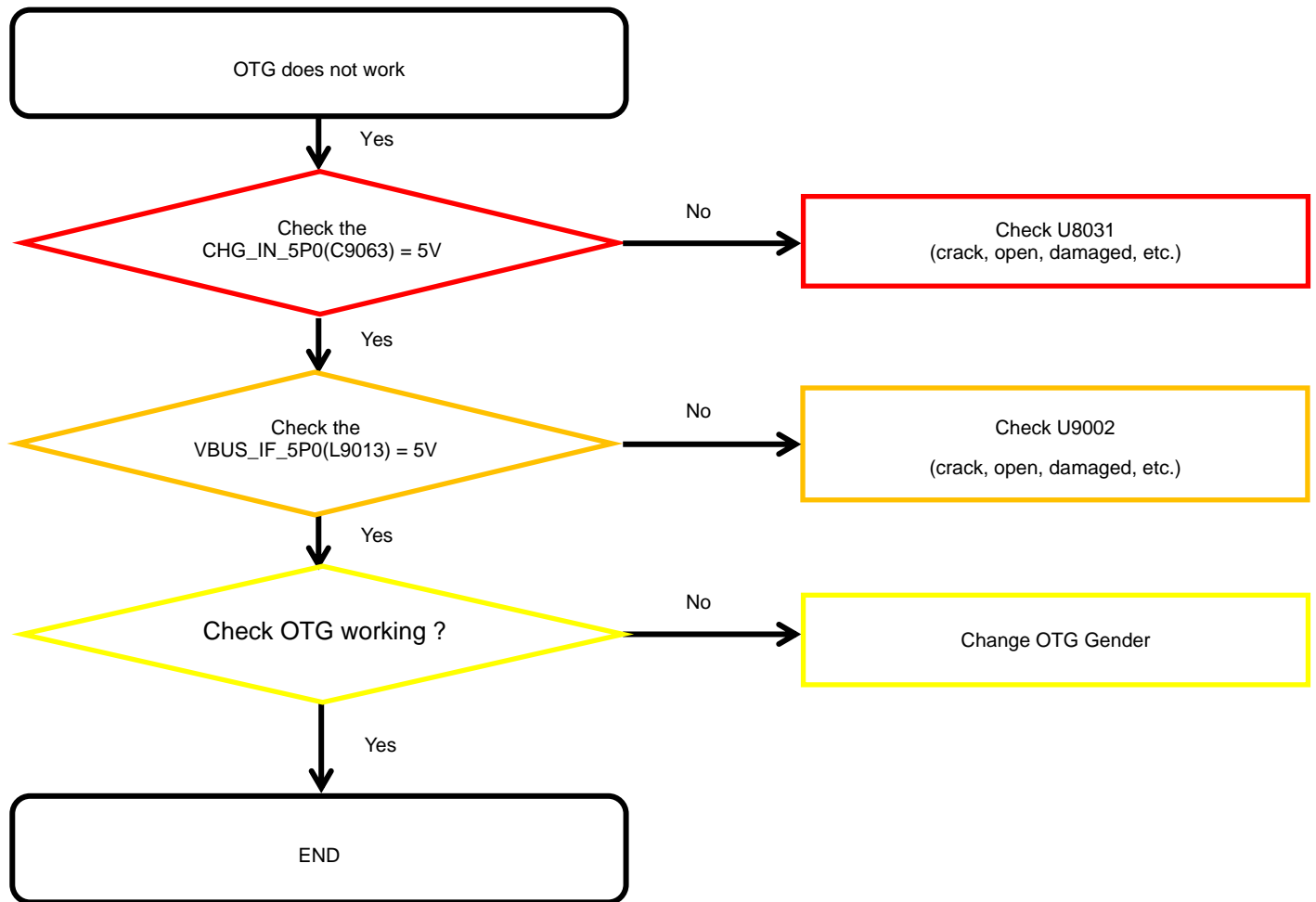
8. Level 3 Repair

8-4-6-3. Wireless Power Sharing



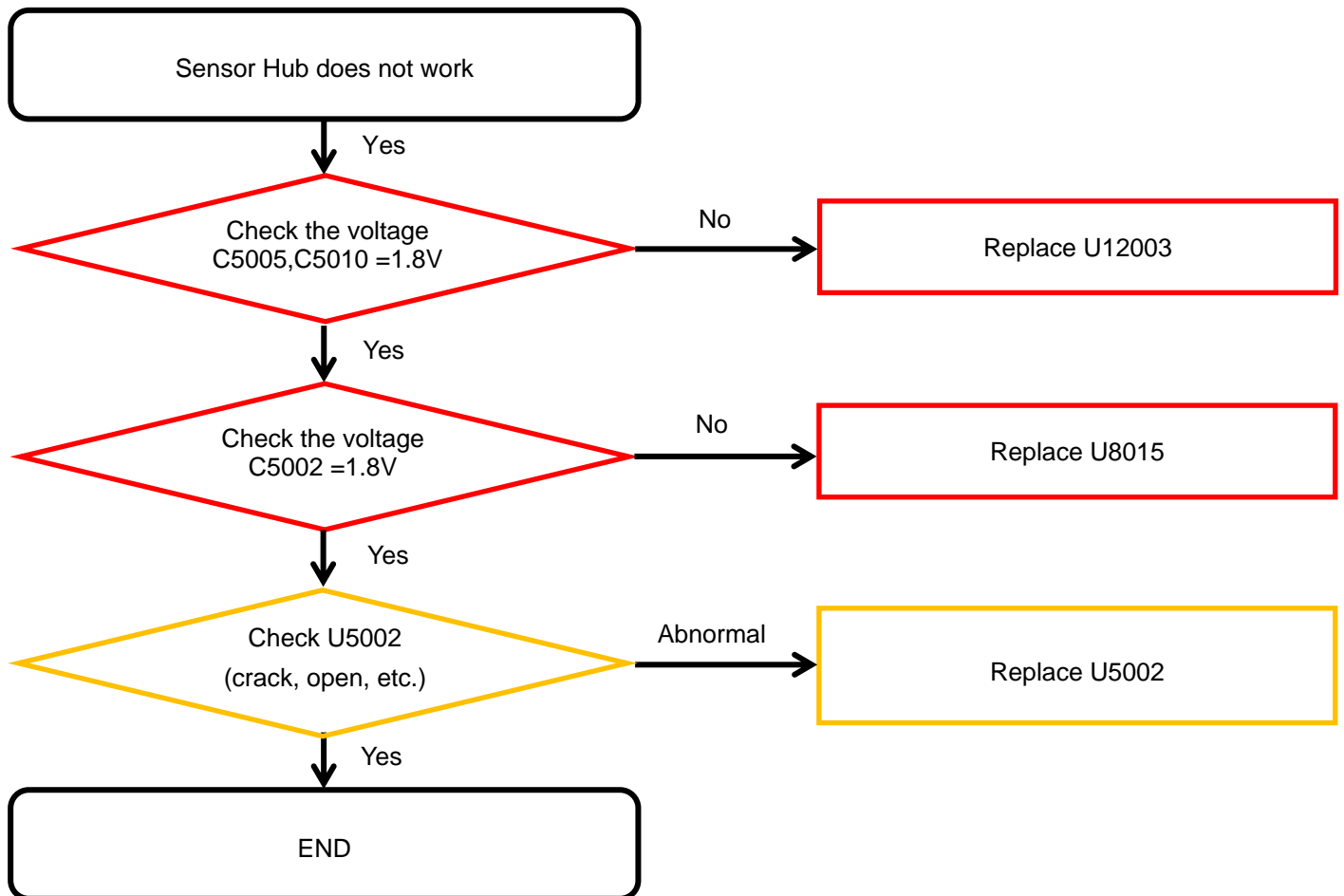
8. Level 3 Repair

8-4-7. OTG



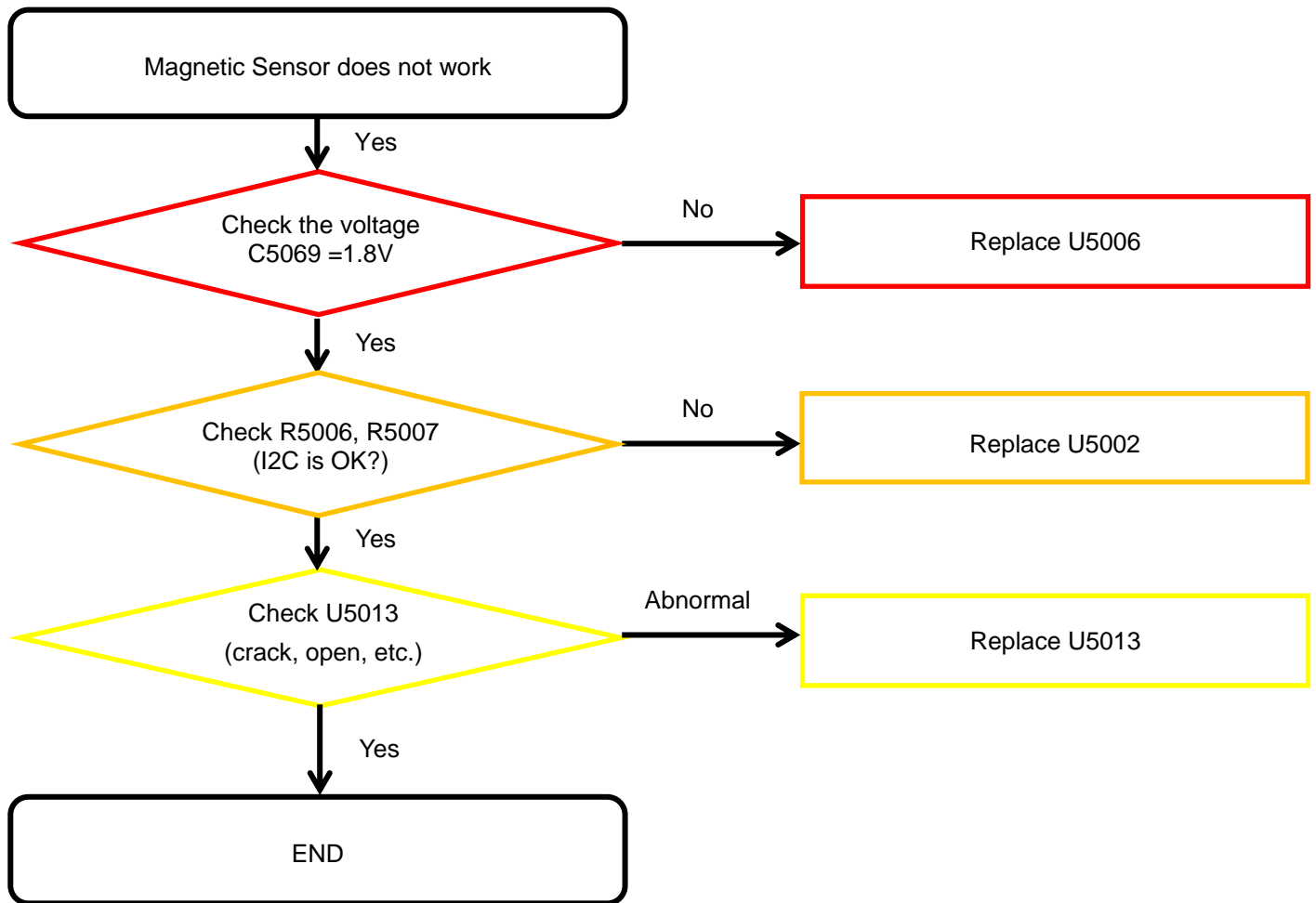
8. Level 3 Repair

8-4-8-1. Sensor Hub



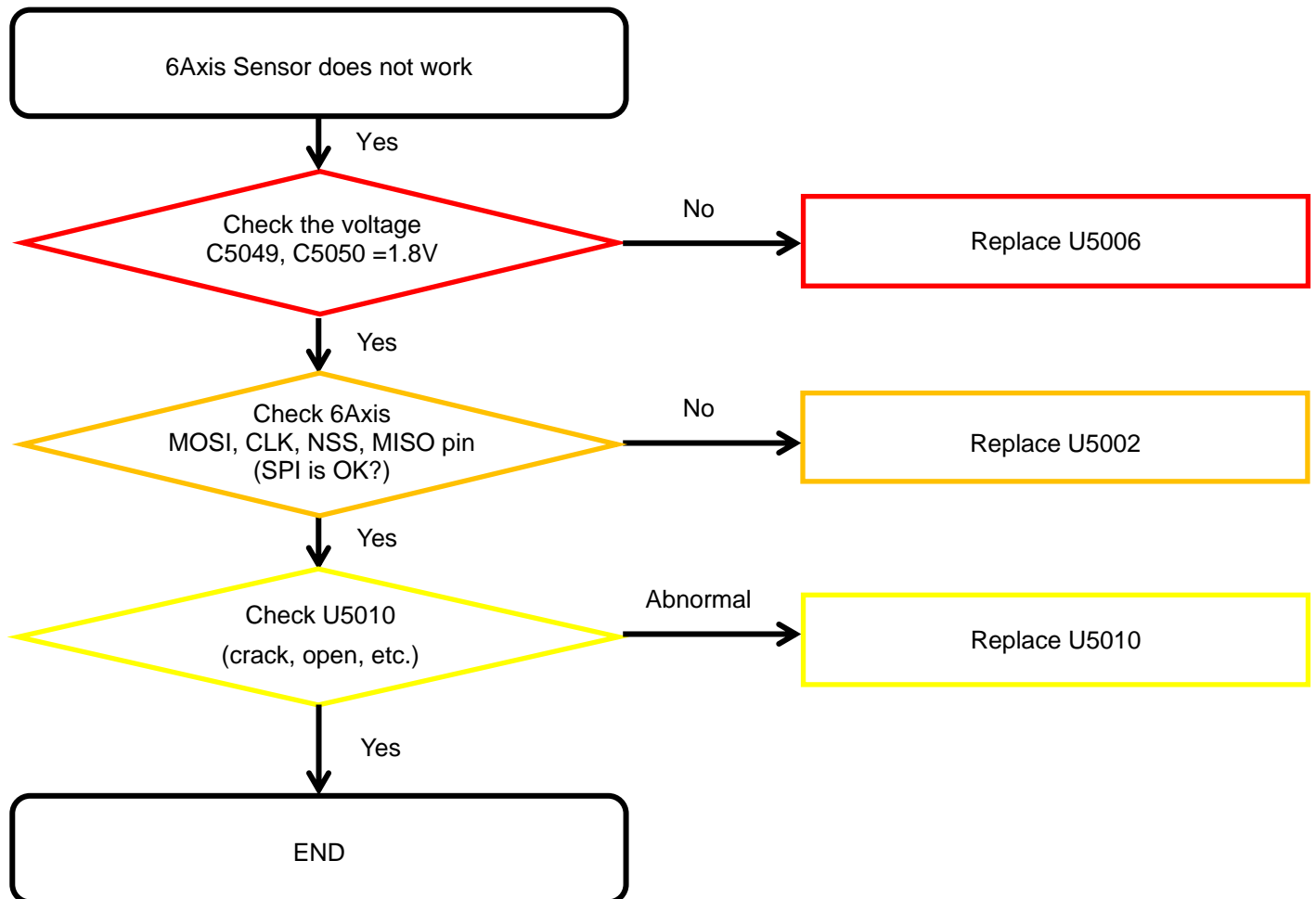
8. Level 3 Repair

8-4-8-2. Magnetic Sensor



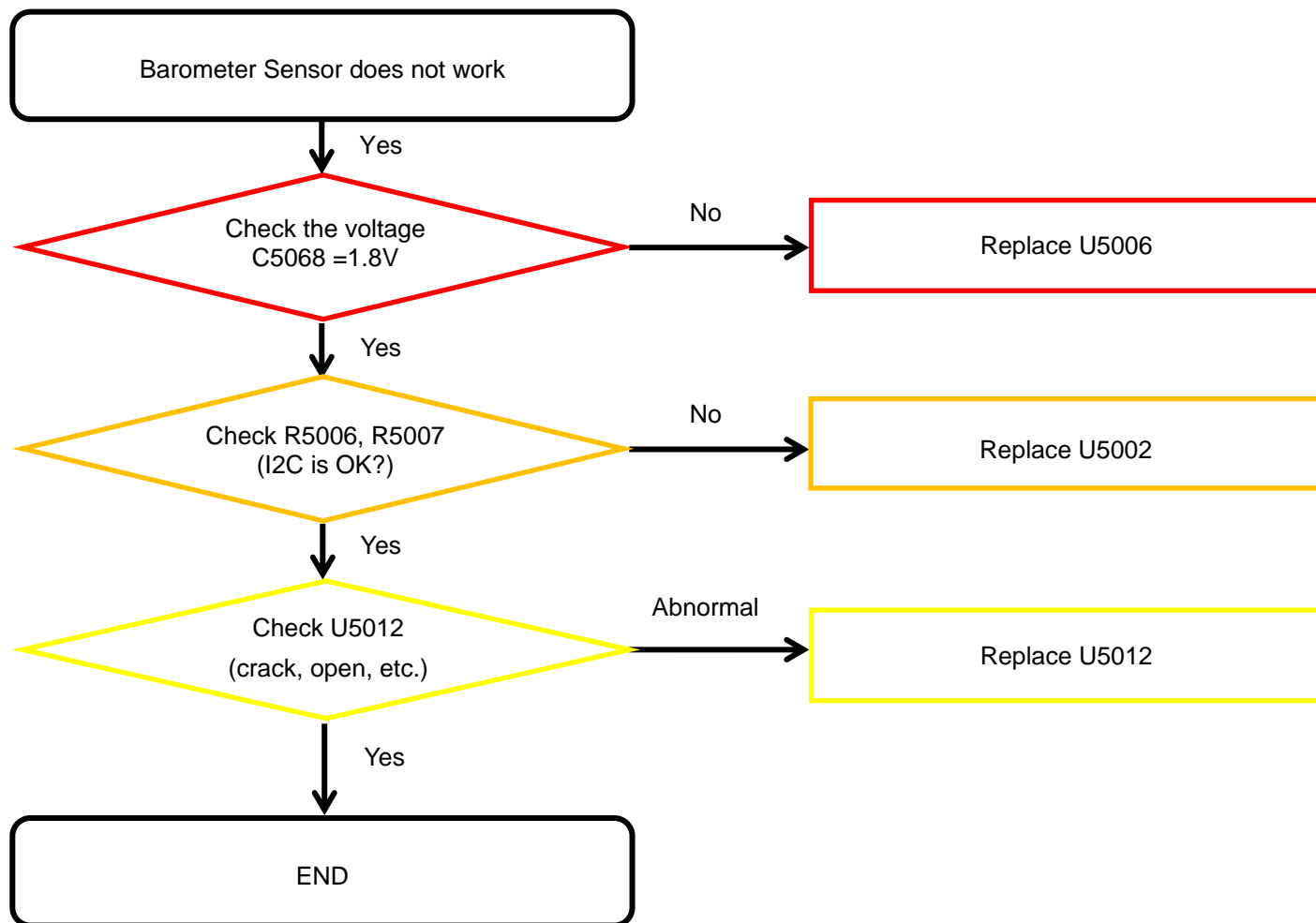
8. Level 3 Repair

8-4-8-3. 6Axis Sensor



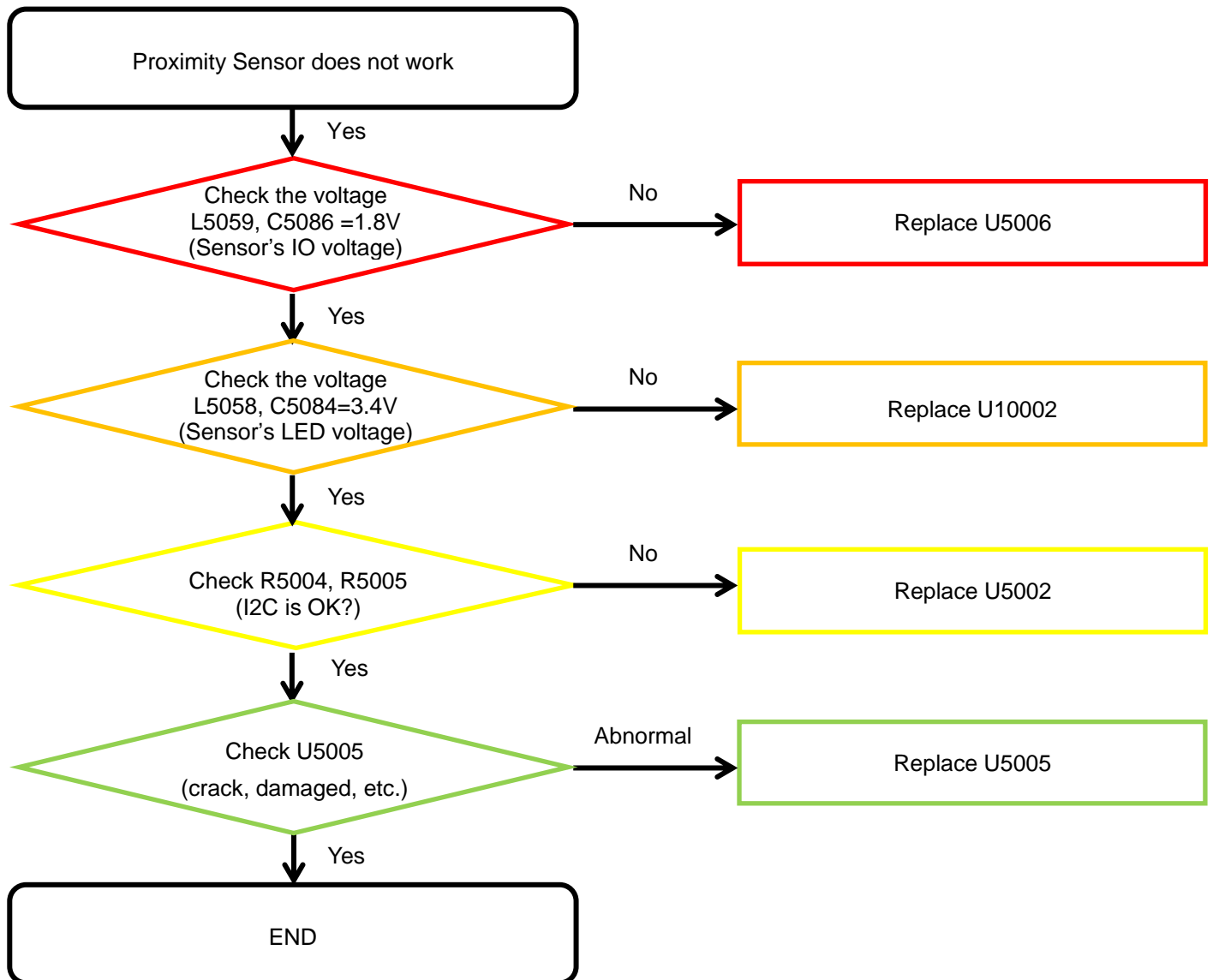
8. Level 3 Repair

8-4-8-4. Barometer sensor



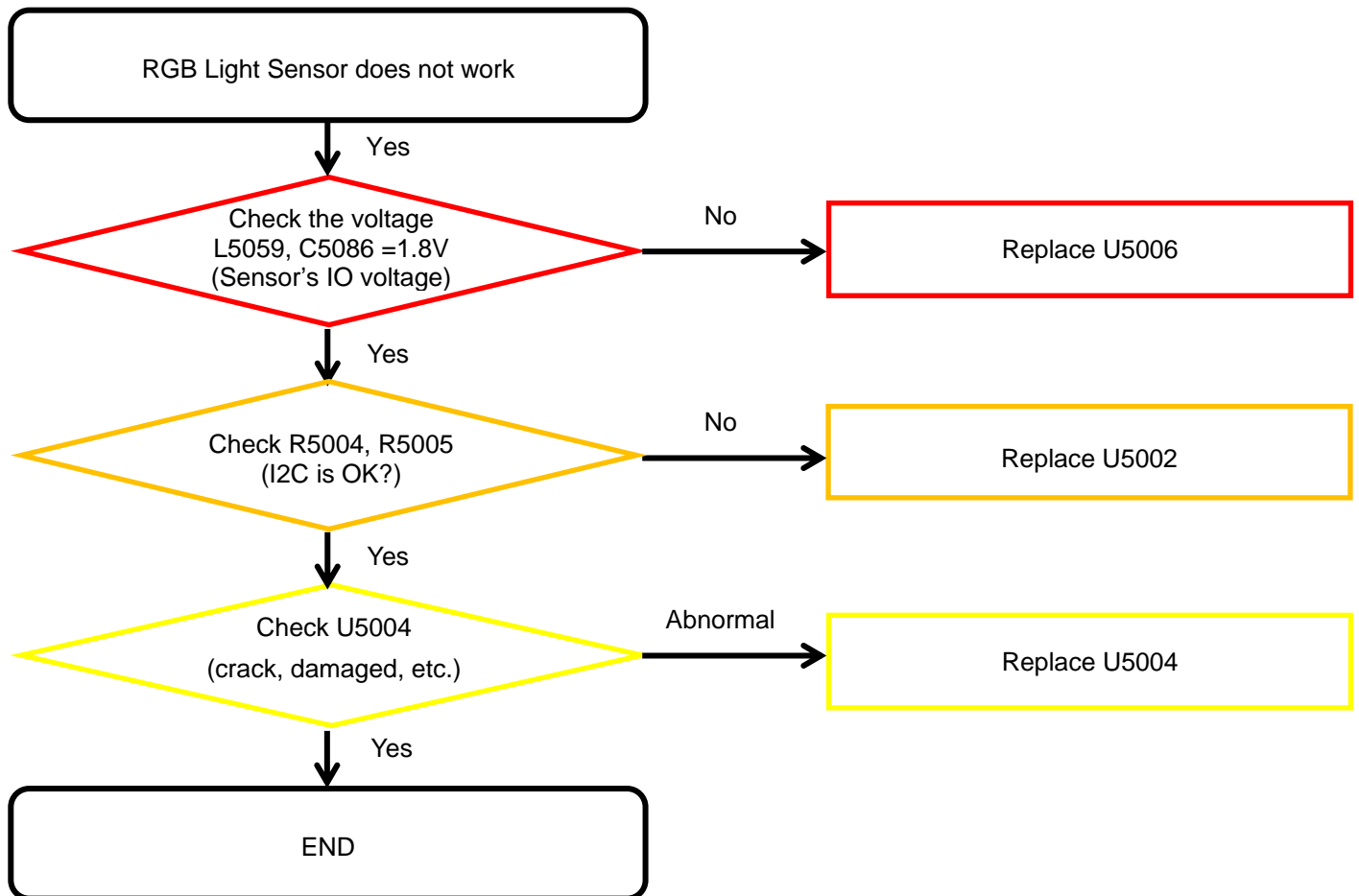
8. Level 3 Repair

8-4-8-5. Proximity sensor



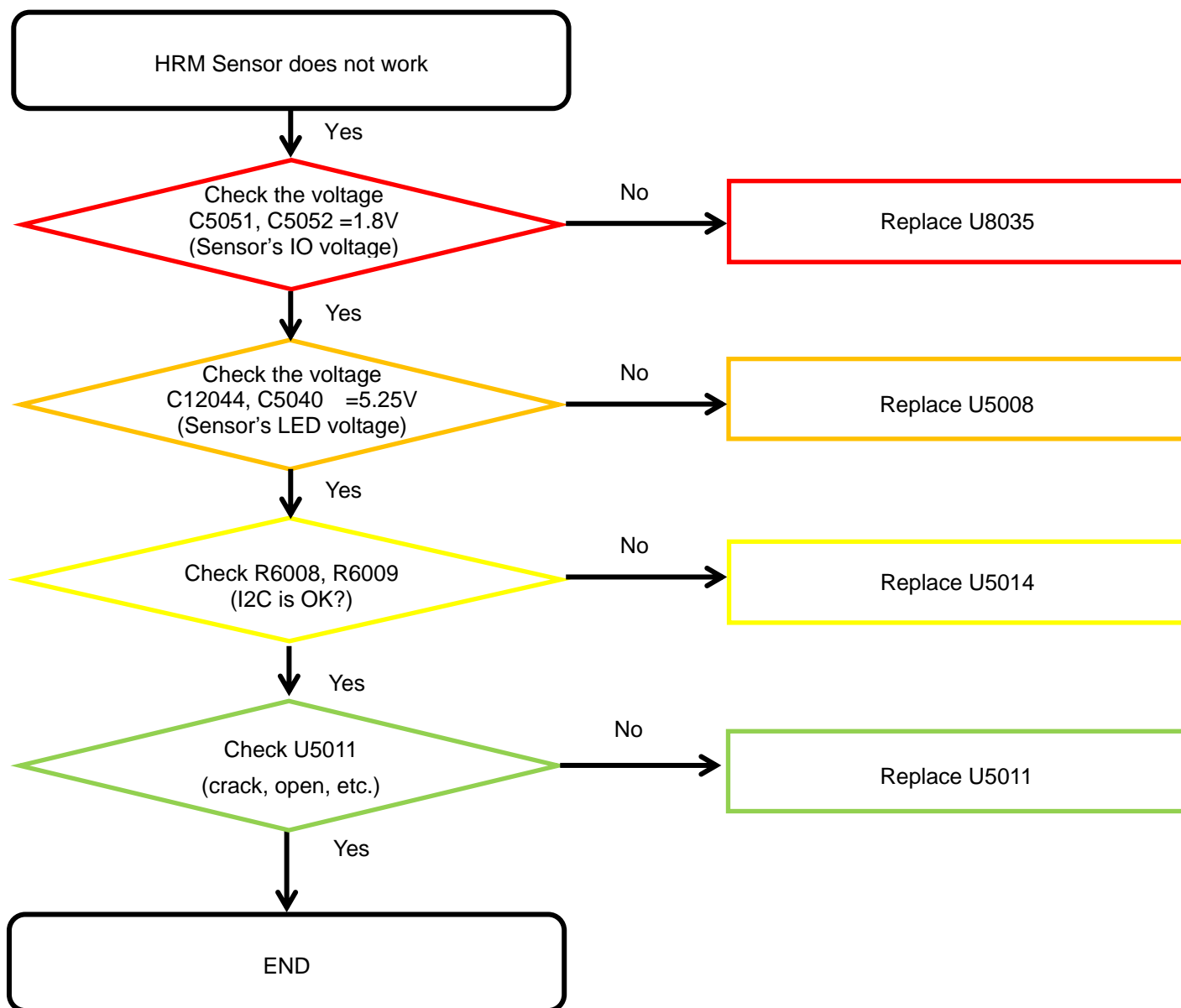
8. Level 3 Repair

8-4-8-6. RGB Light sensor



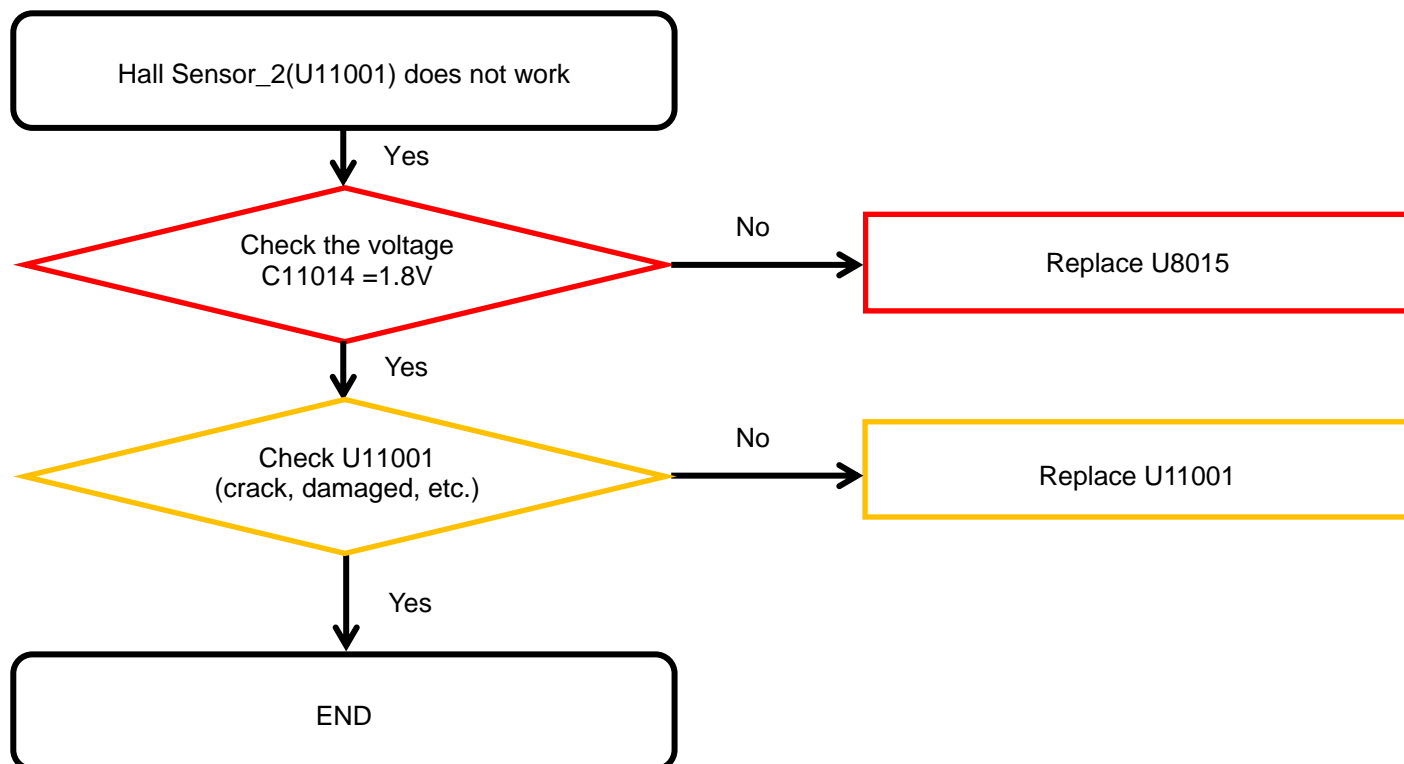
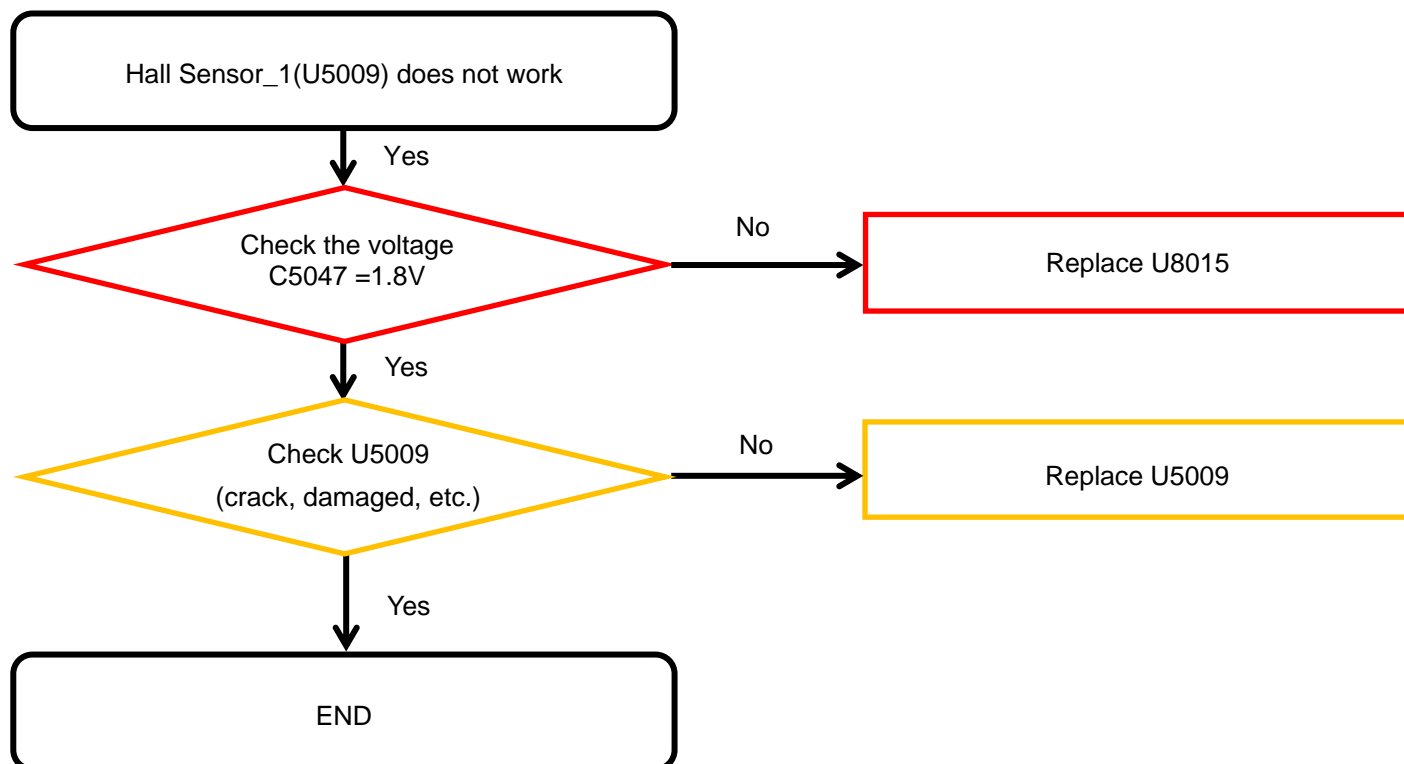
8. Level 3 Repair

8-4-8-7. HRM Sensor



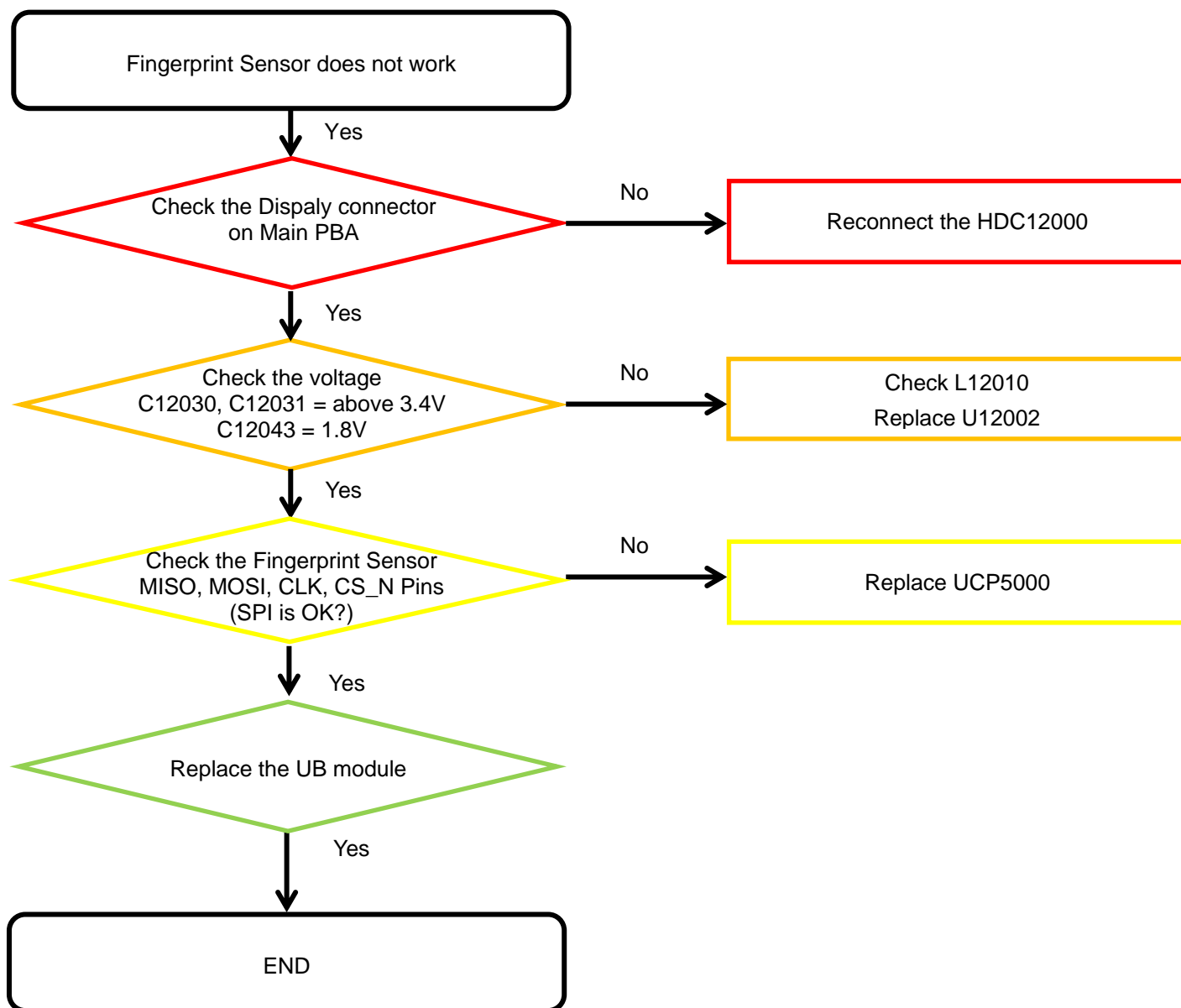
8. Level 3 Repair

8-4-8-8. Hall Sensor



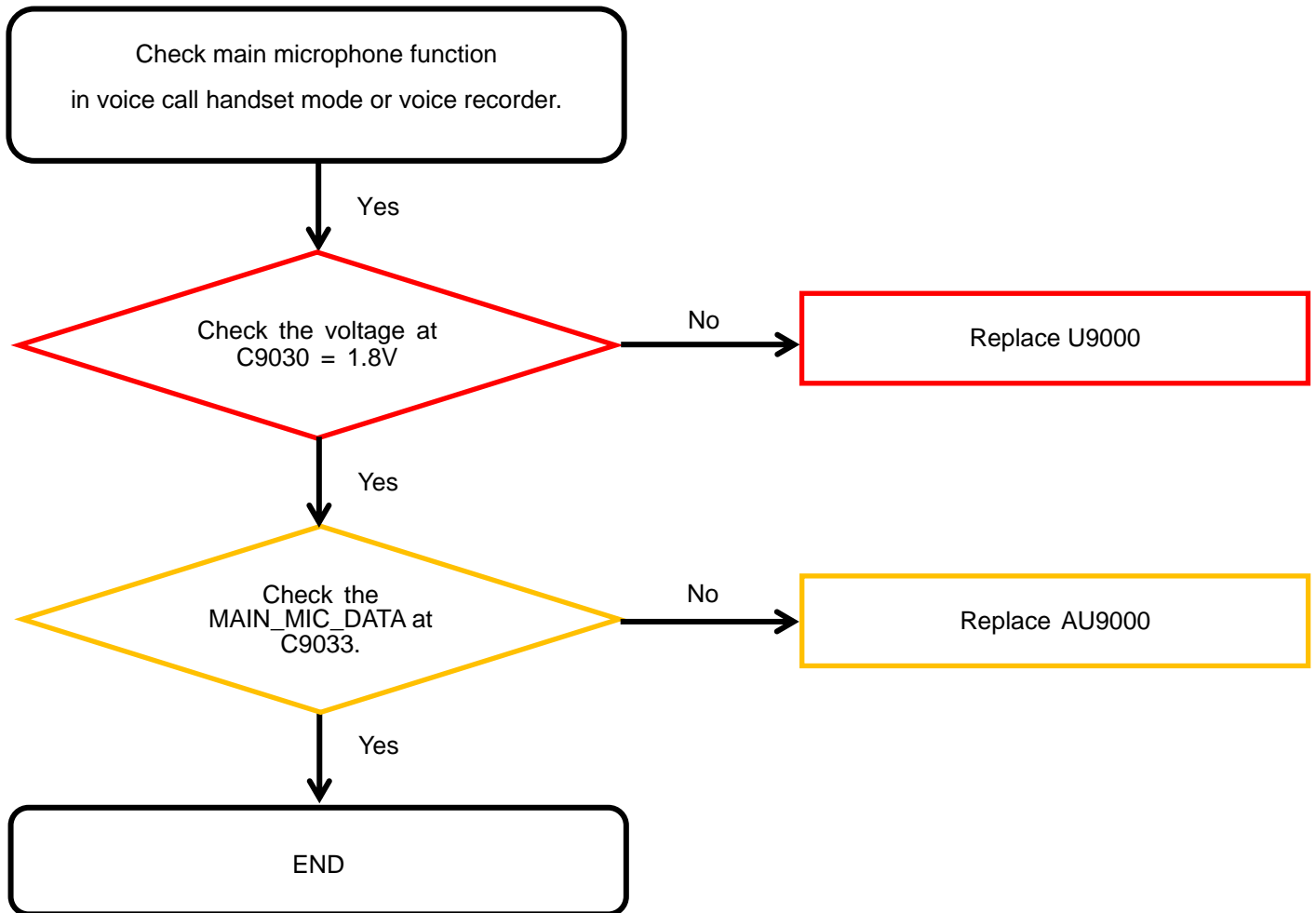
8. Level 3 Repair

8-4-8-9. Fingerprint Sensor



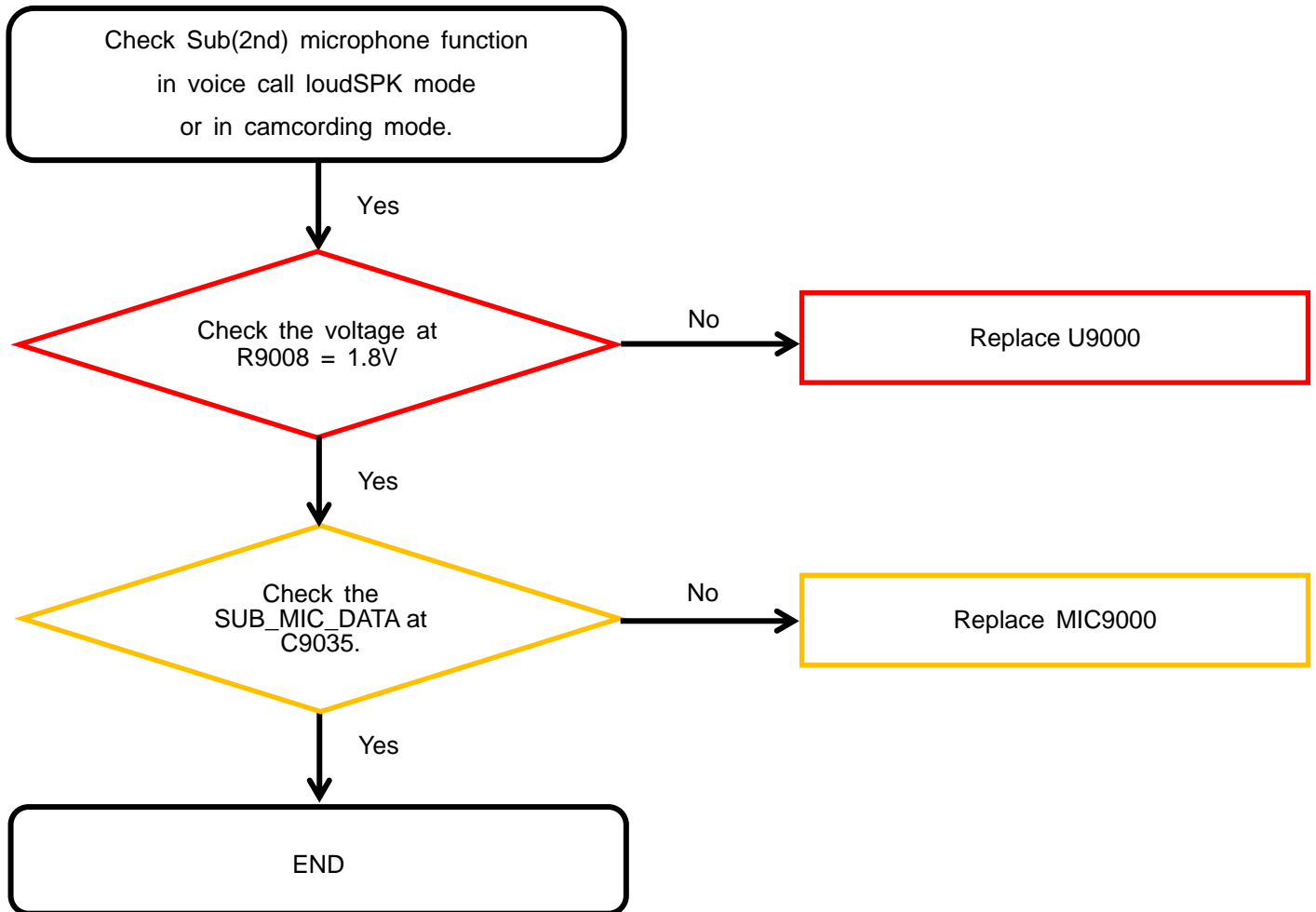
8. Level 3 Repair

8-4-9-1. Microphone Part - Main MIC



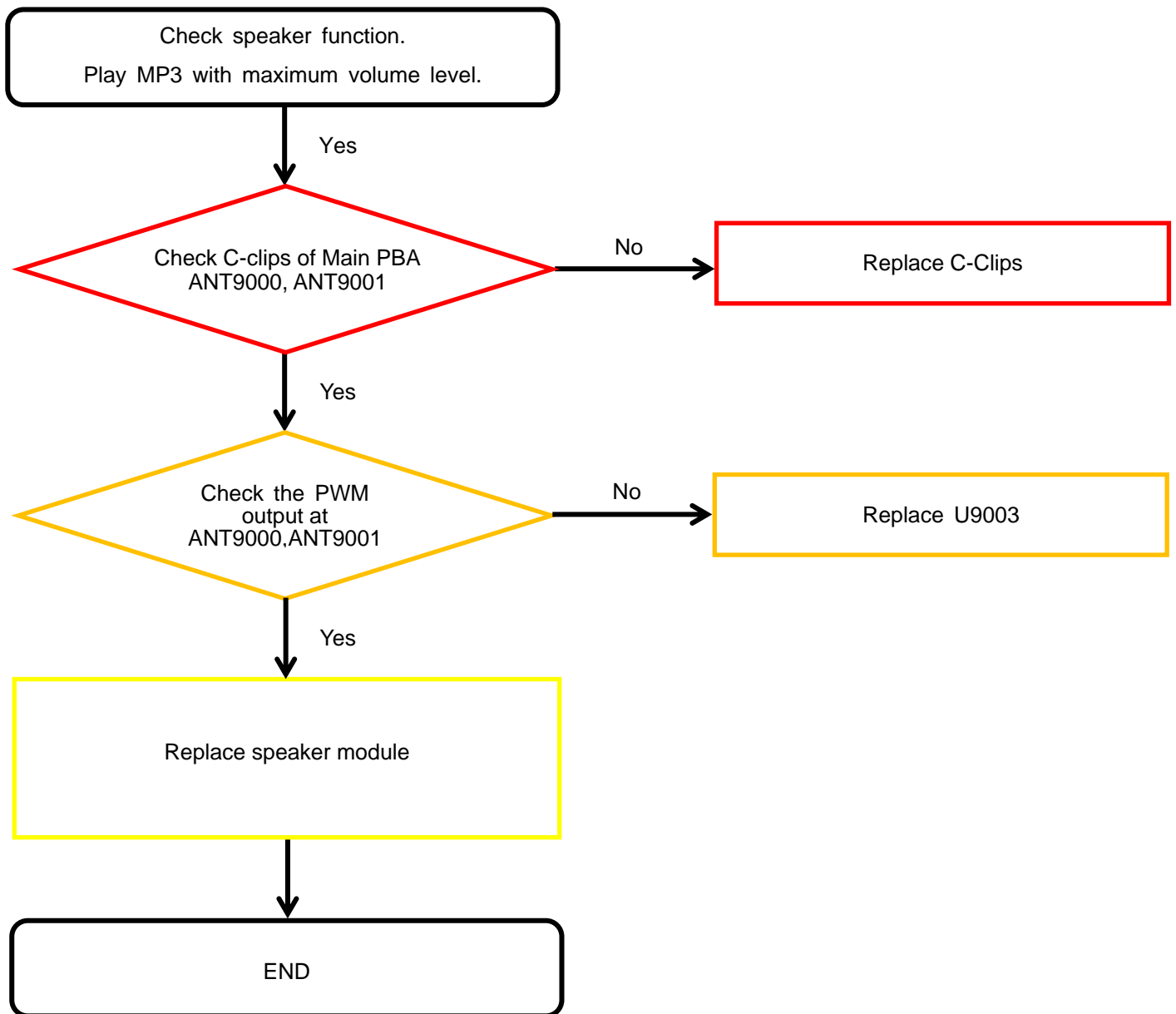
8. Level 3 Repair

8-4-9-2. Microphone Part - Sub(2nd) MIC



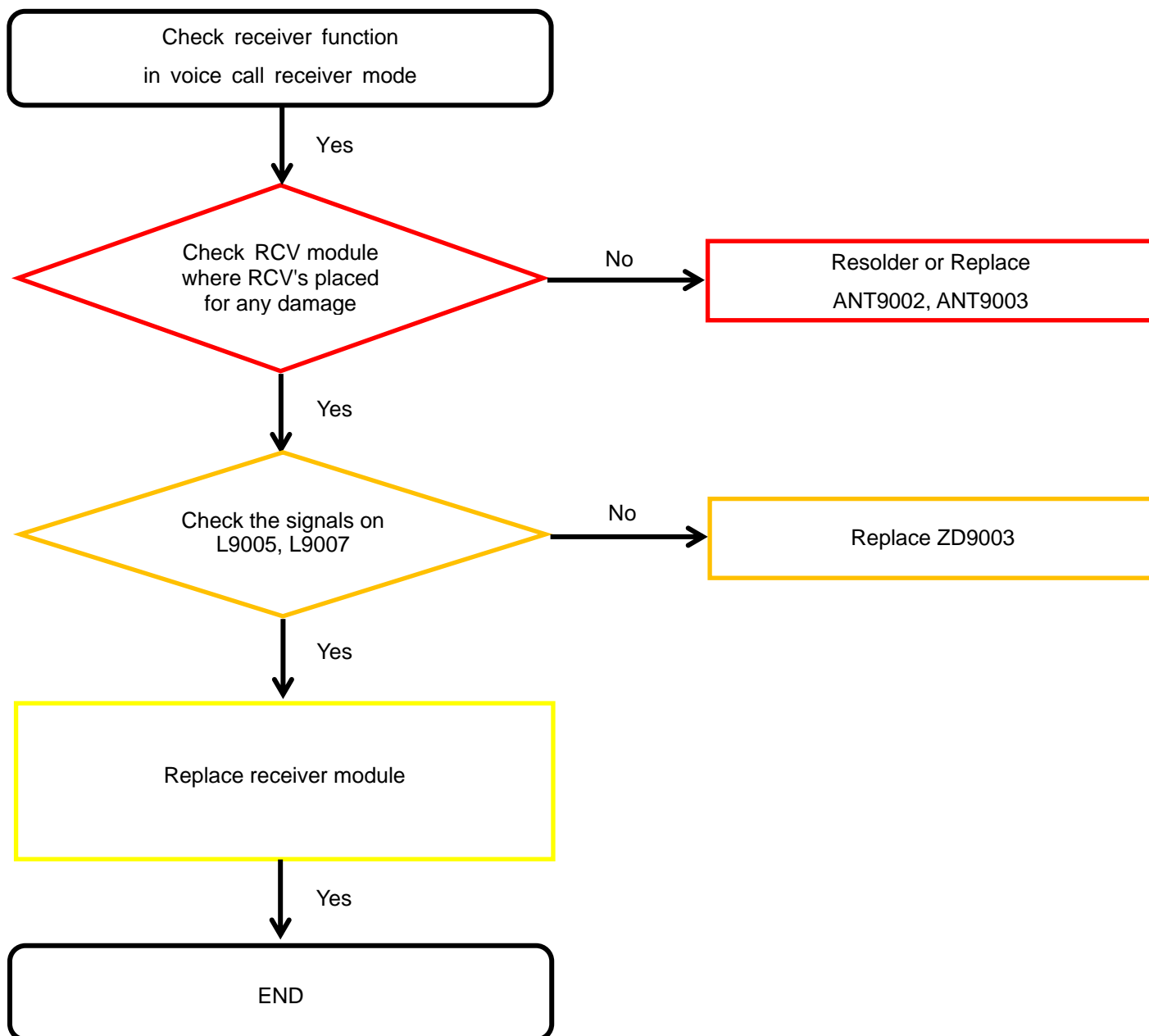
8. Level 3 Repair

8-4-10. Speaker Part



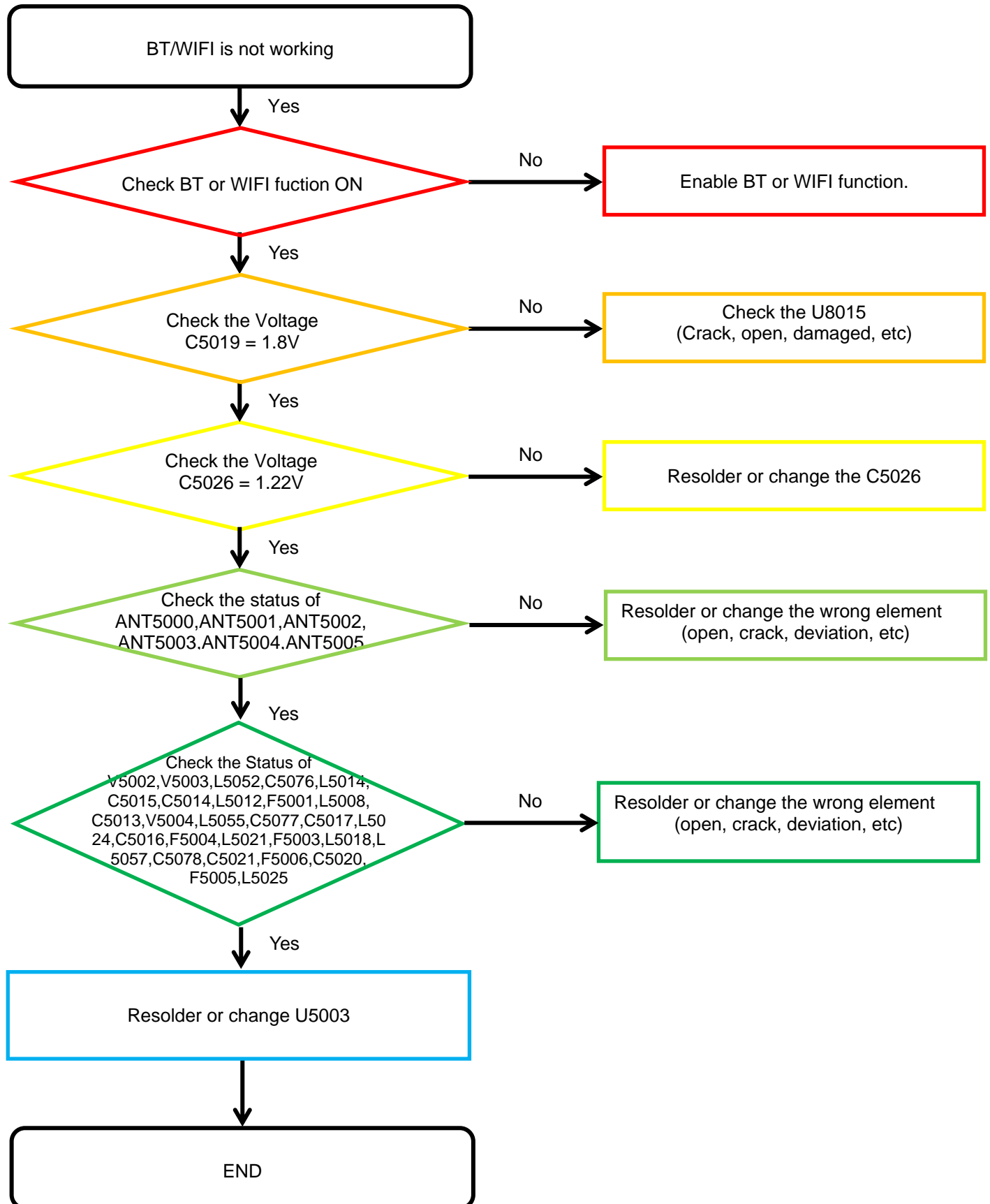
8. Level 3 Repair

8-4-11. Receiver Part



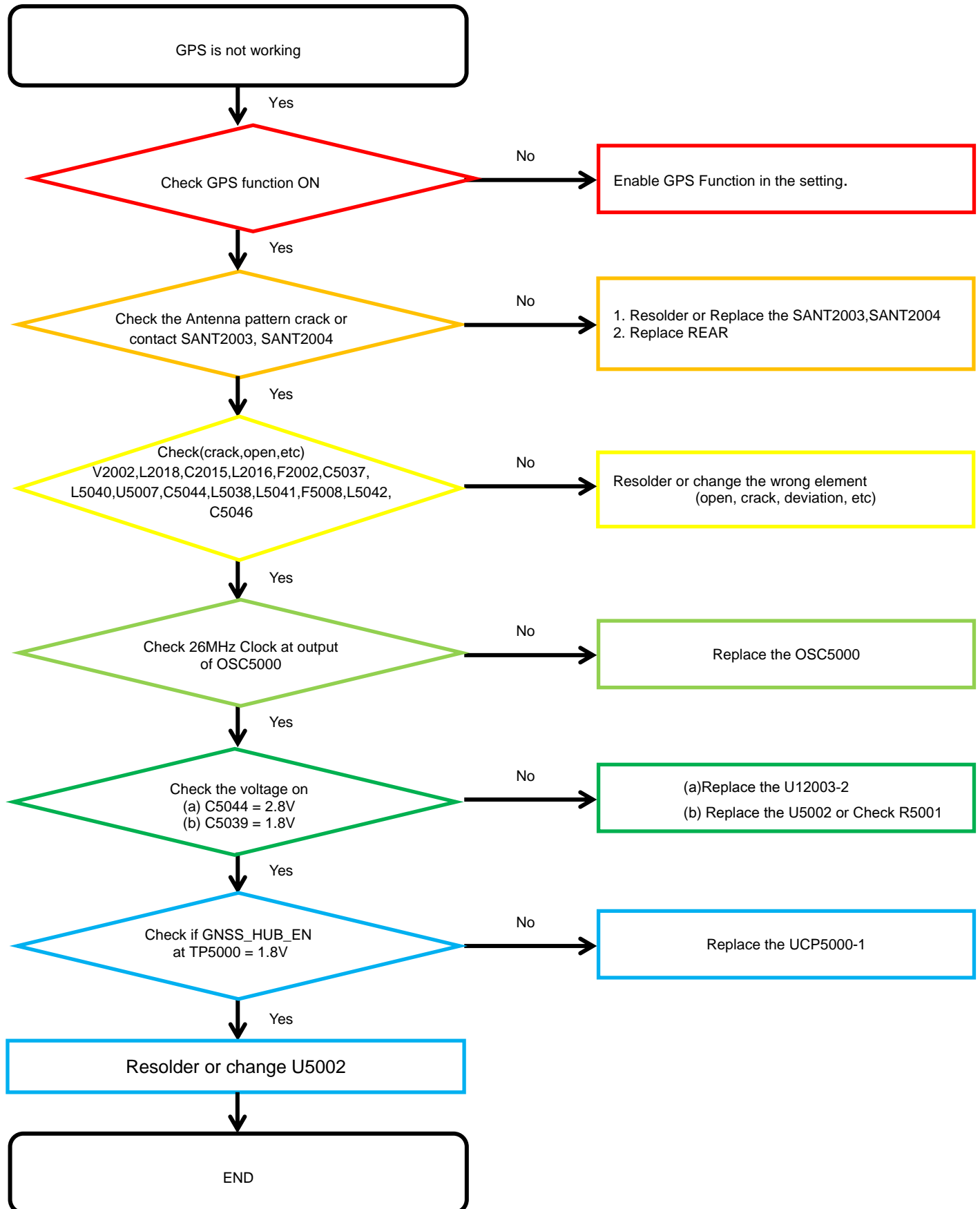
8. Level 3 Repair

8-4-12. BT/WIFI



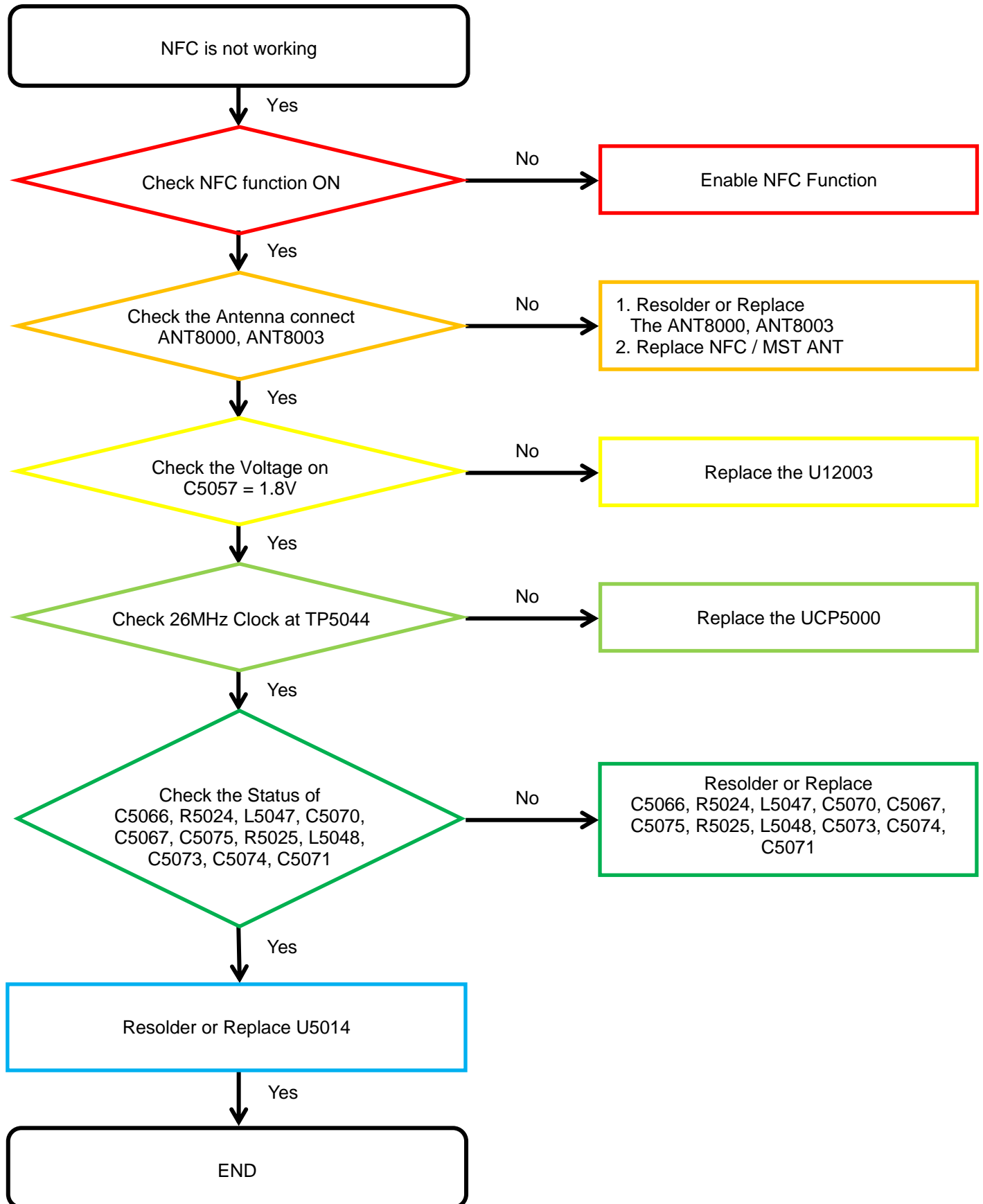
8. Level 3 Repair

8-4-13. GPS



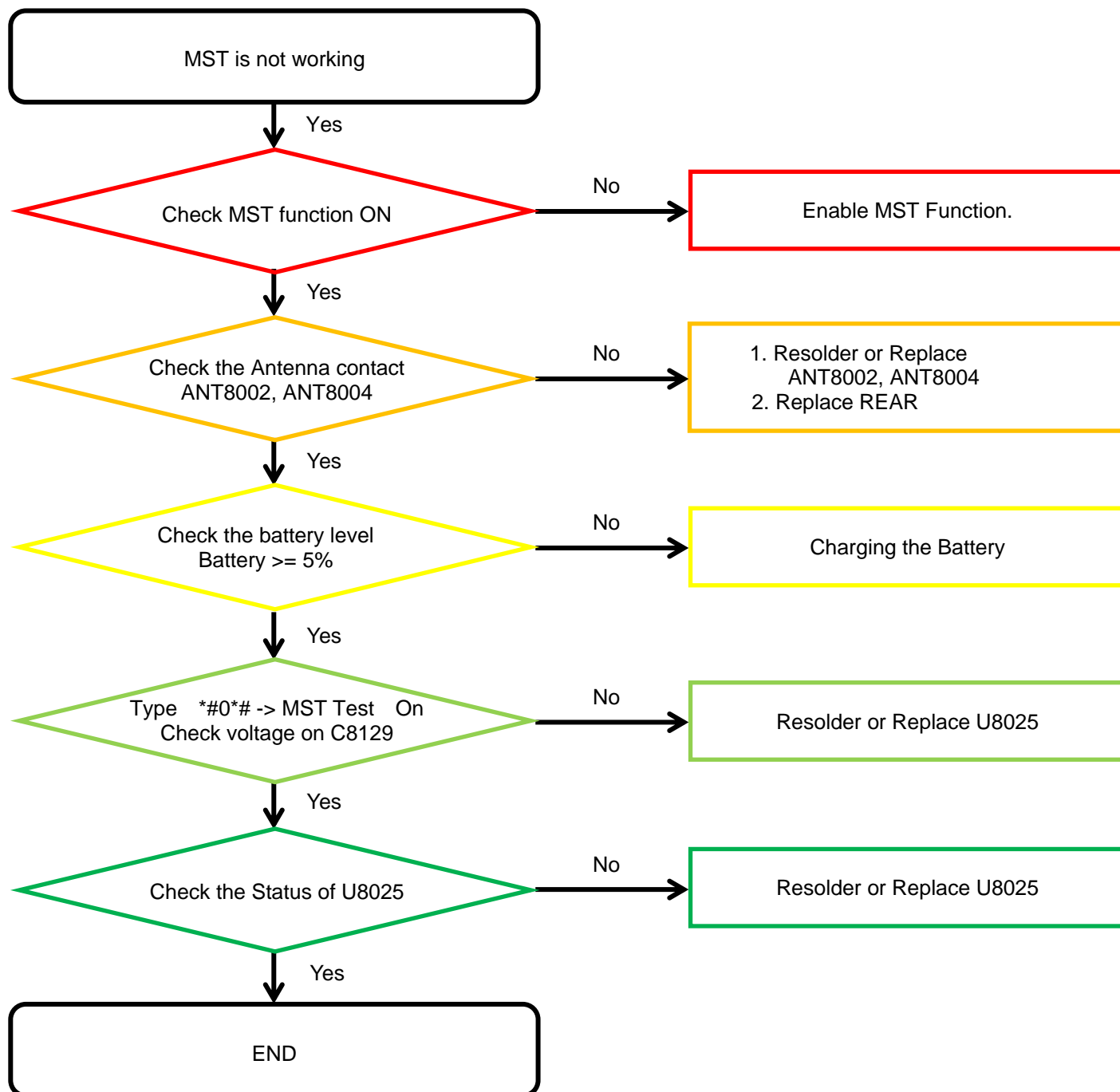
8. Level 3 Repair

8-4-14. NFC



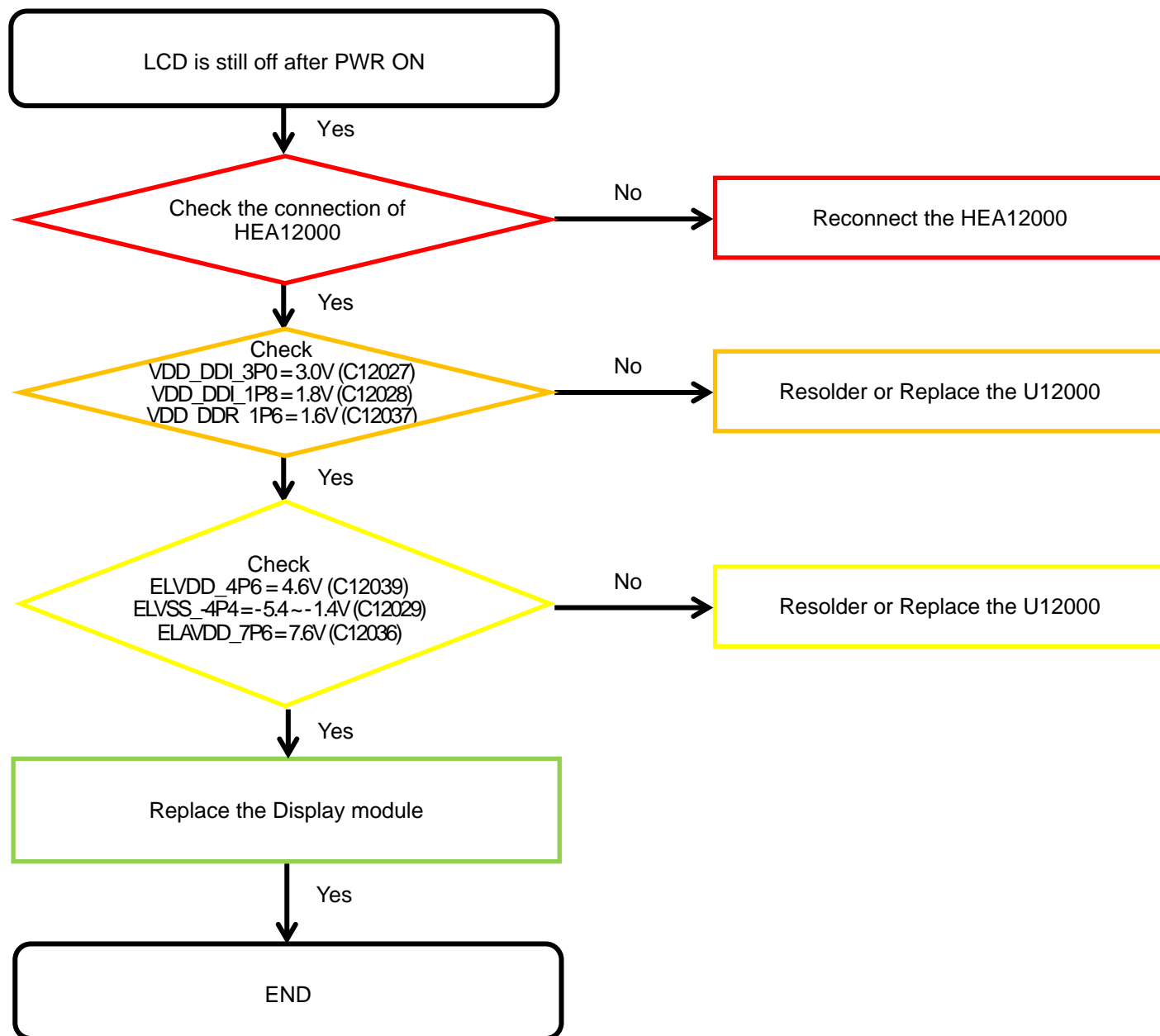
8. Level 3 Repair

8-4-15. MST



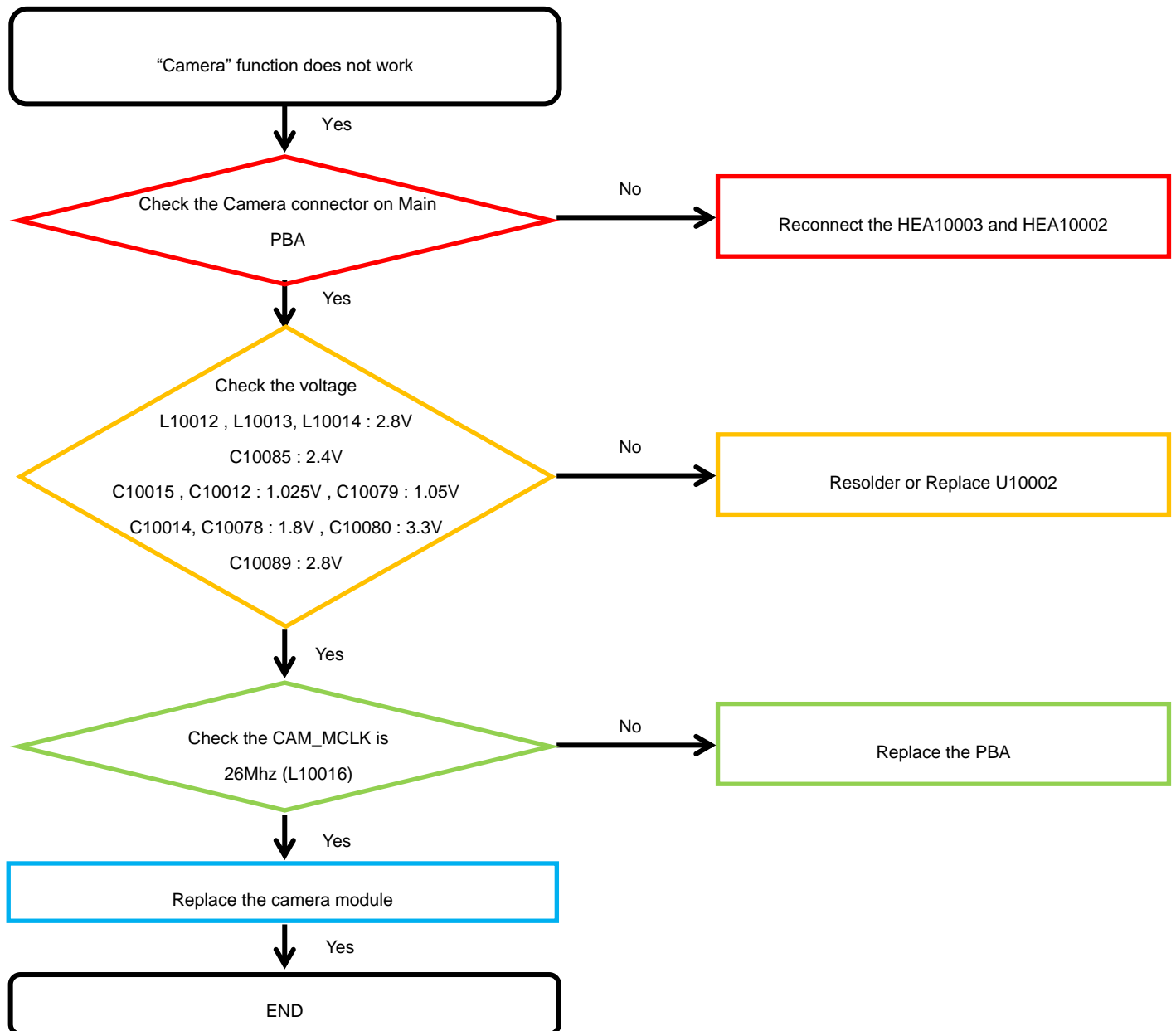
8. Level 3 Repair

8-4-16. Display



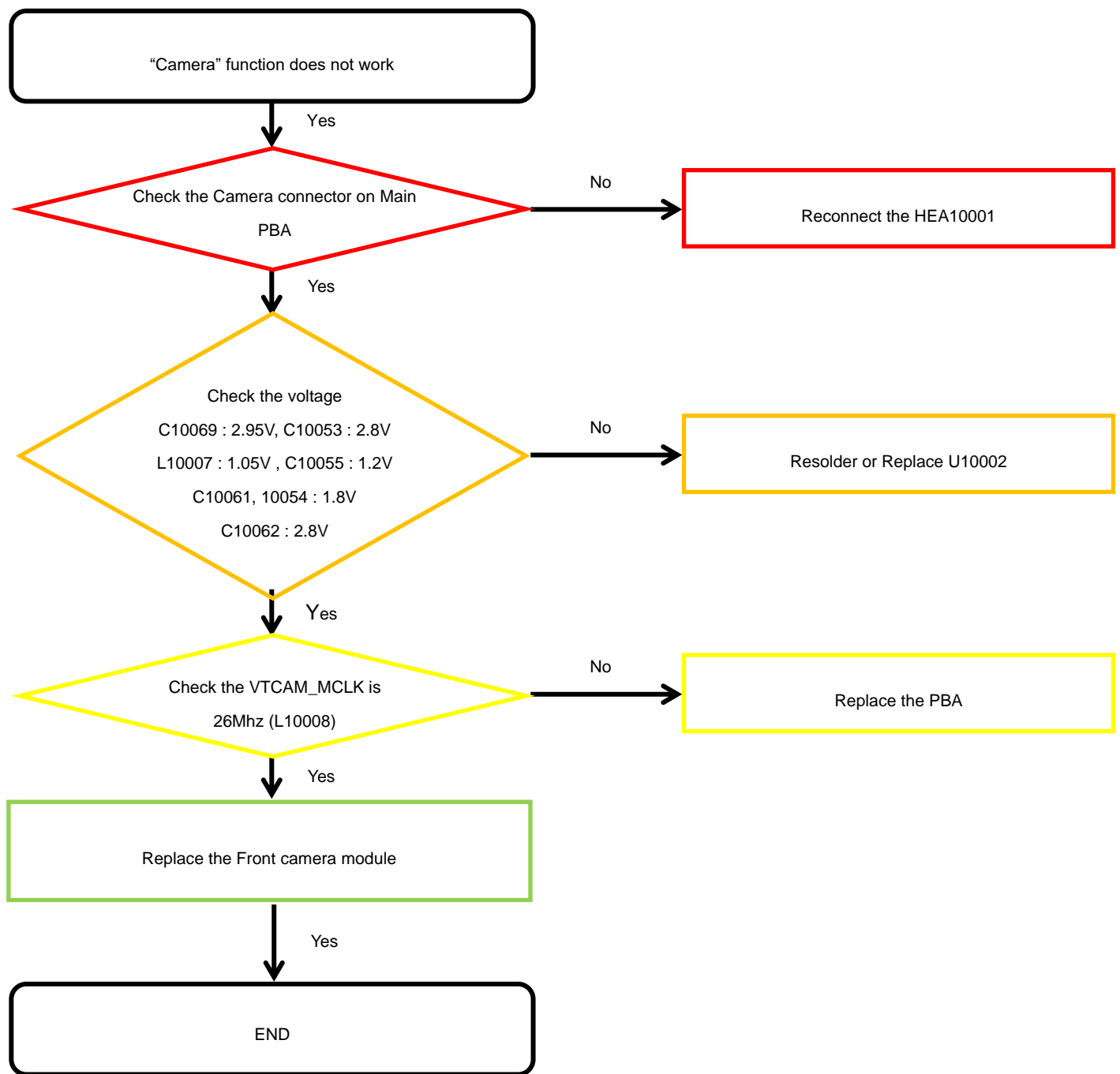
8. Level 3 Repair

8-4-17. 12M CAMERA



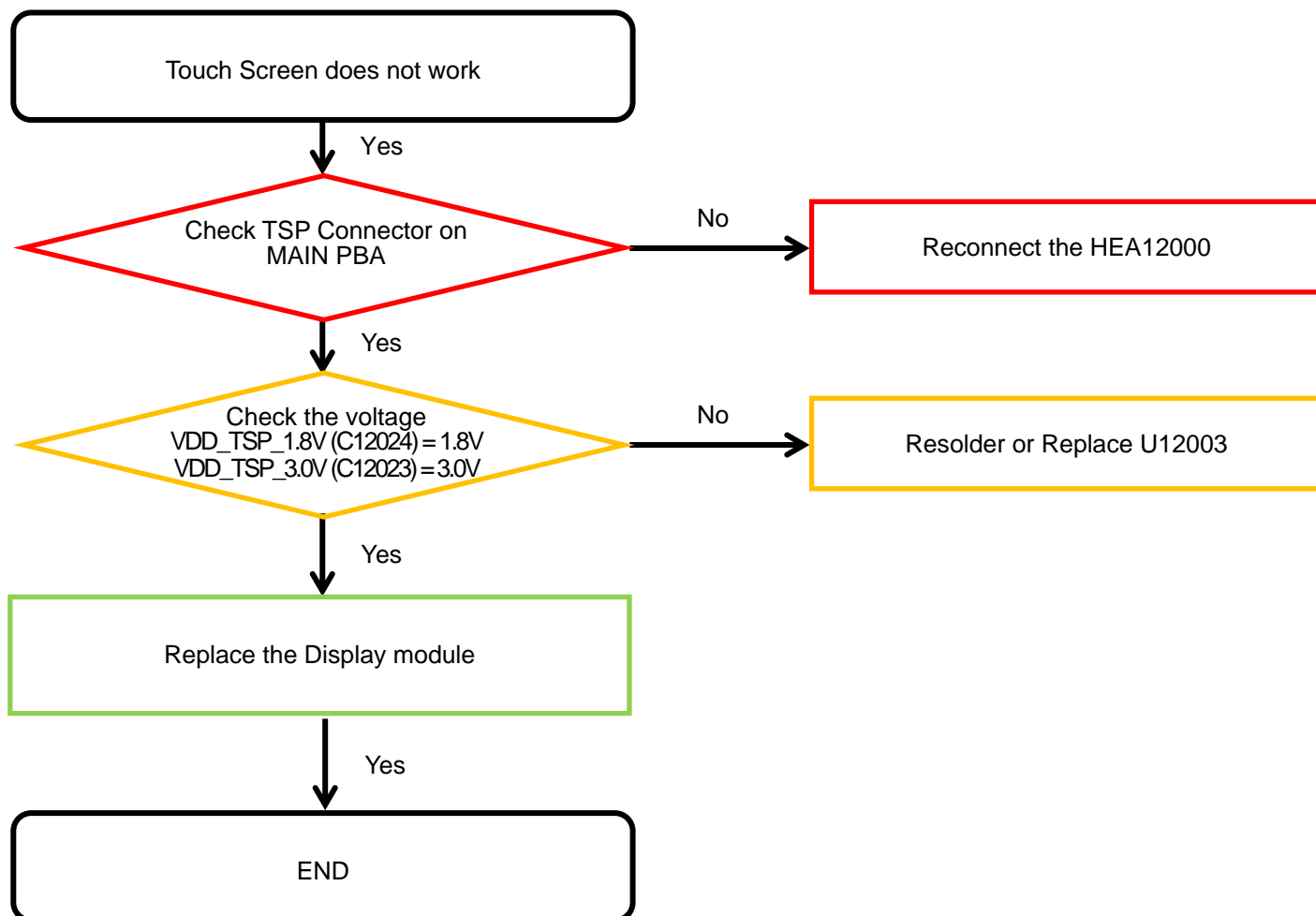
8. Level 3 Repair

8-4-18. 10M CAMERA



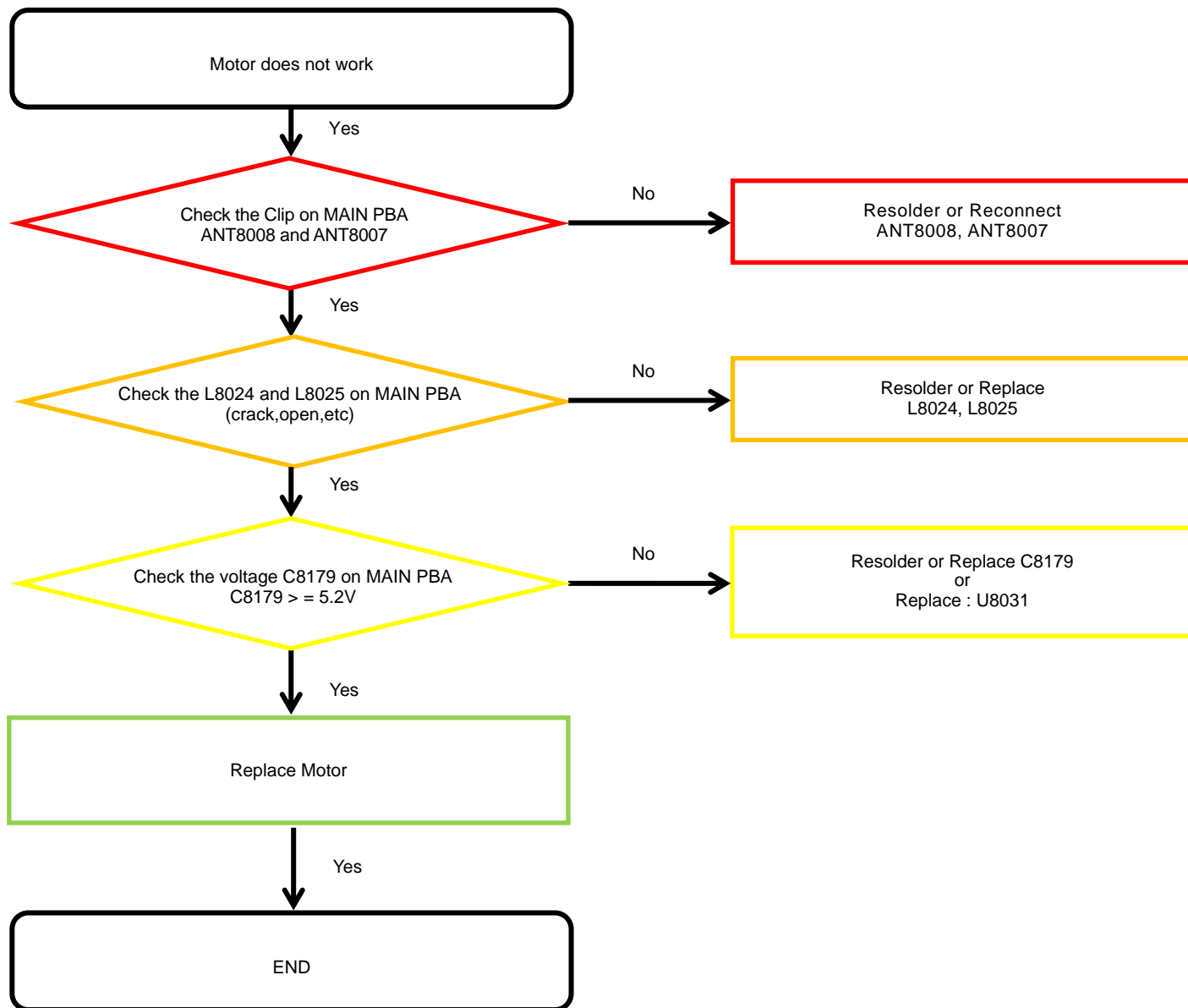
8. Level 3 Repair

8-4-20. TSP



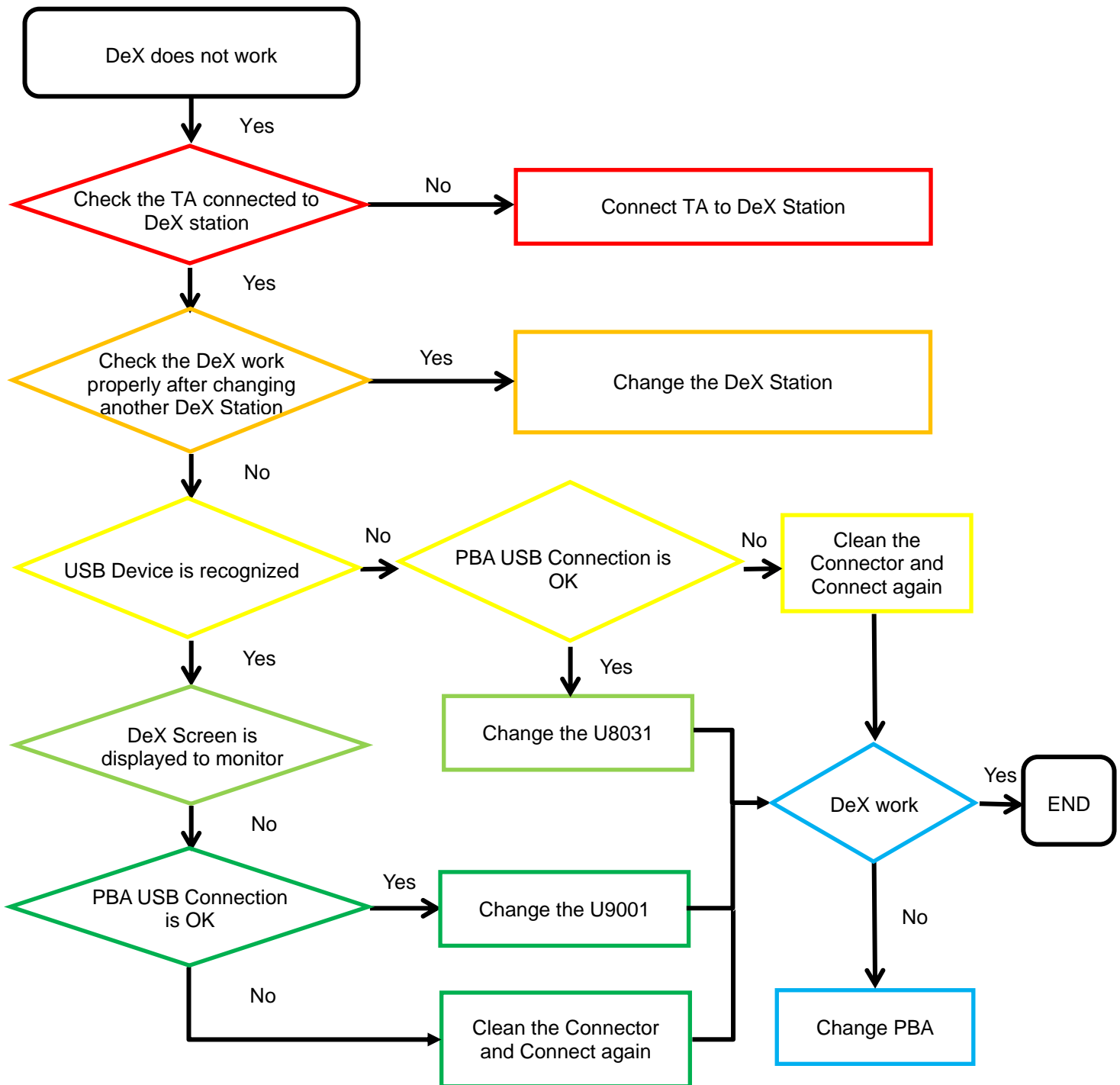
8. Level 3 Repair

8-4-21. Motor



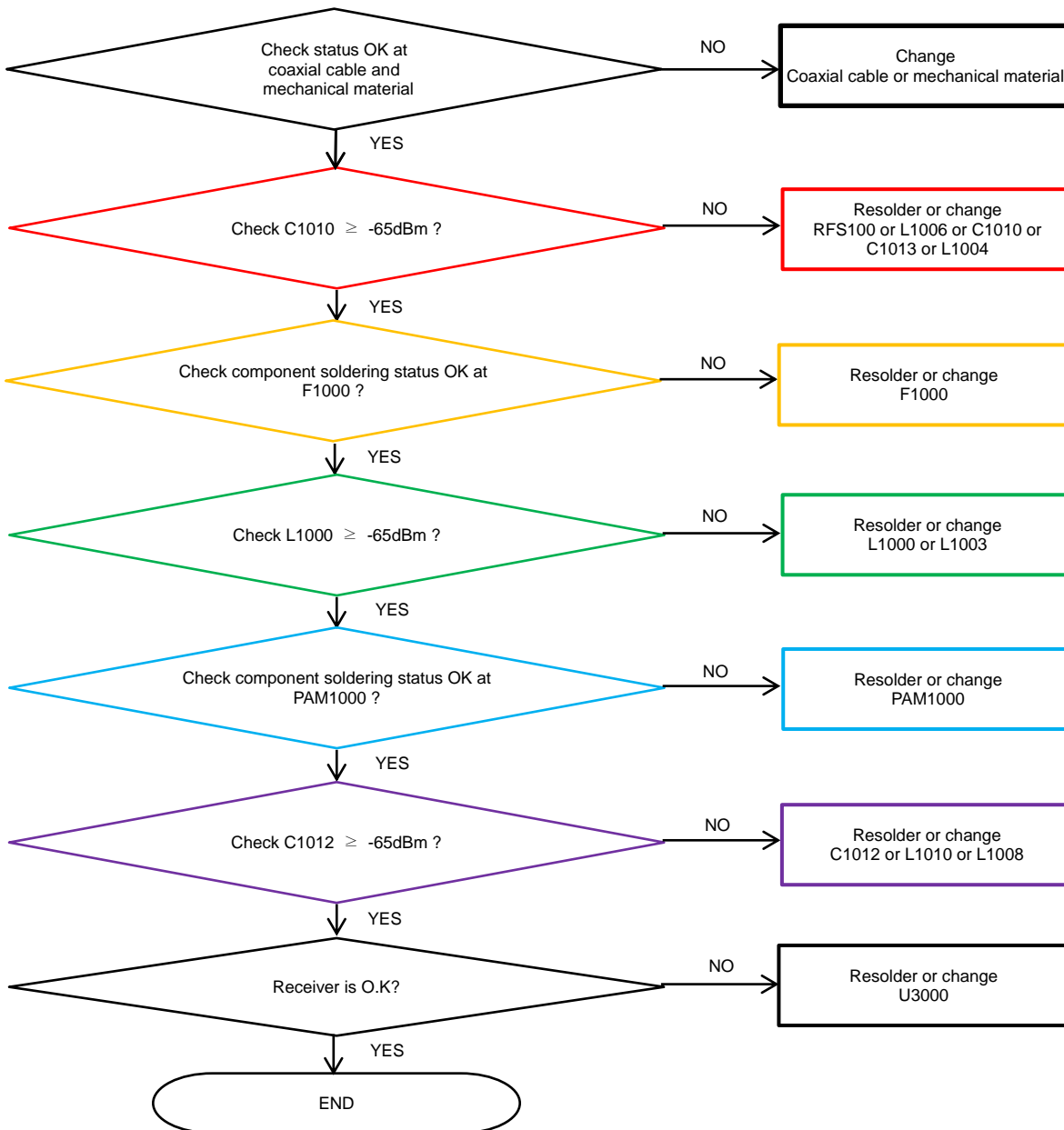
8. Level 3 Repair

8-4-22. DeX Station



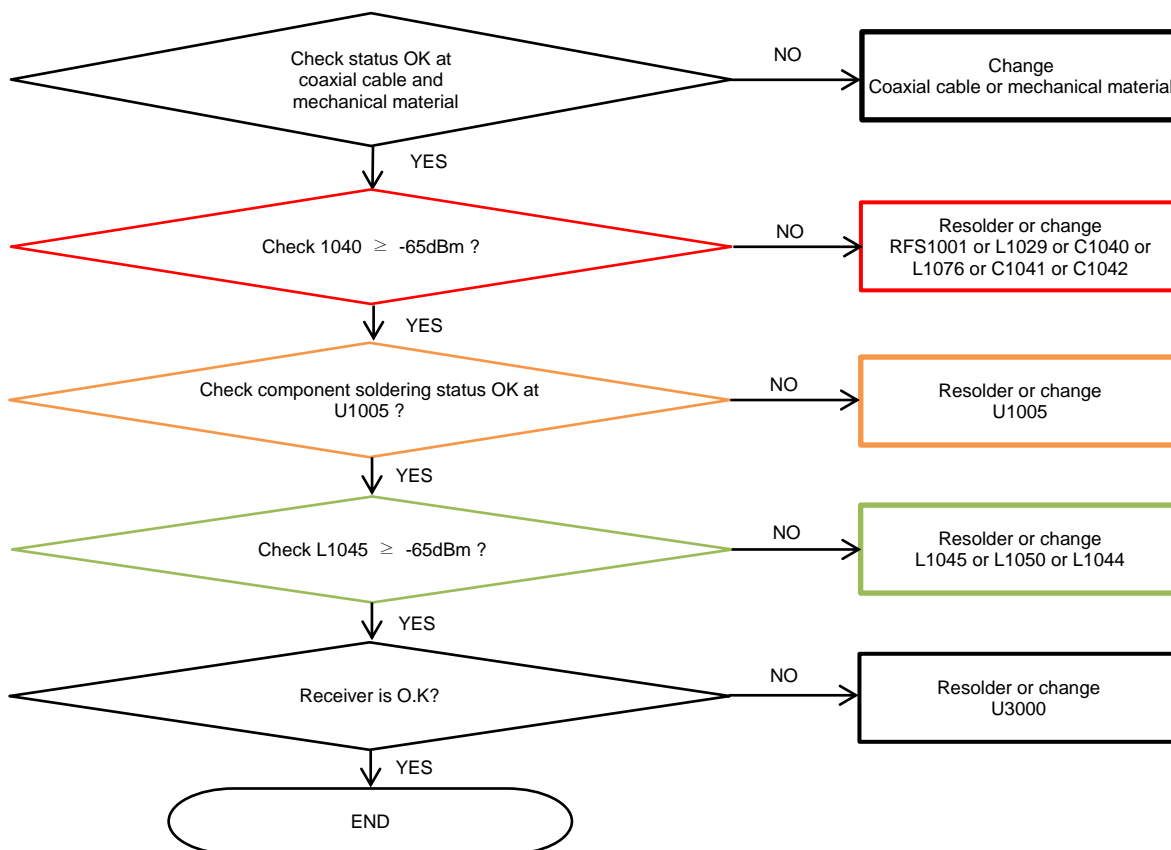
8. Level 3 Repair

8-4-23. GSM 850/900, WCDMA B5/8, LTE B5/8/12/13/17/18/19/20/26/28 PRx



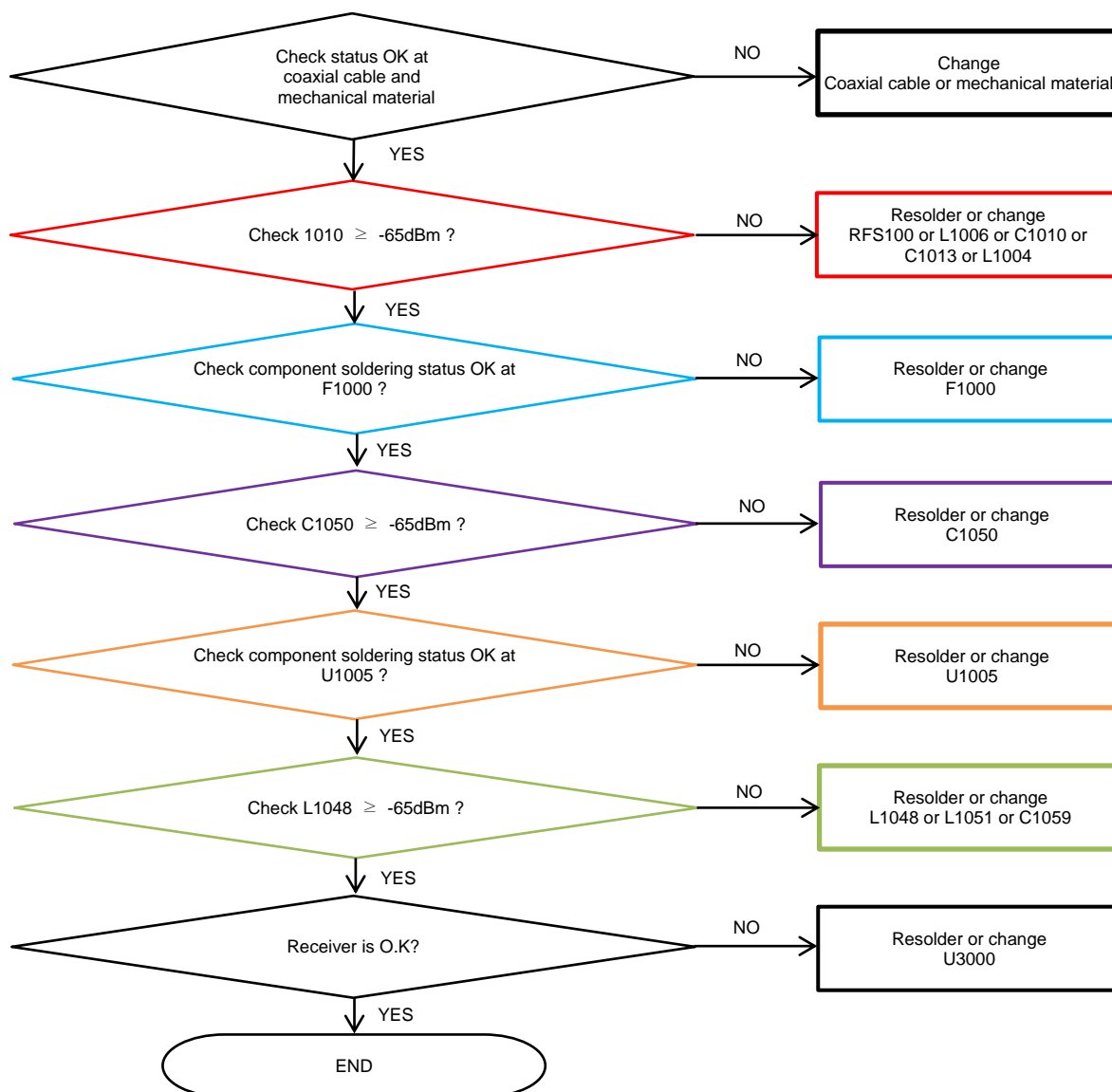
8. Level 3 Repair

8-4-24. TDSCDMA B38/40/41, LTE B7/38/40/41 PRx



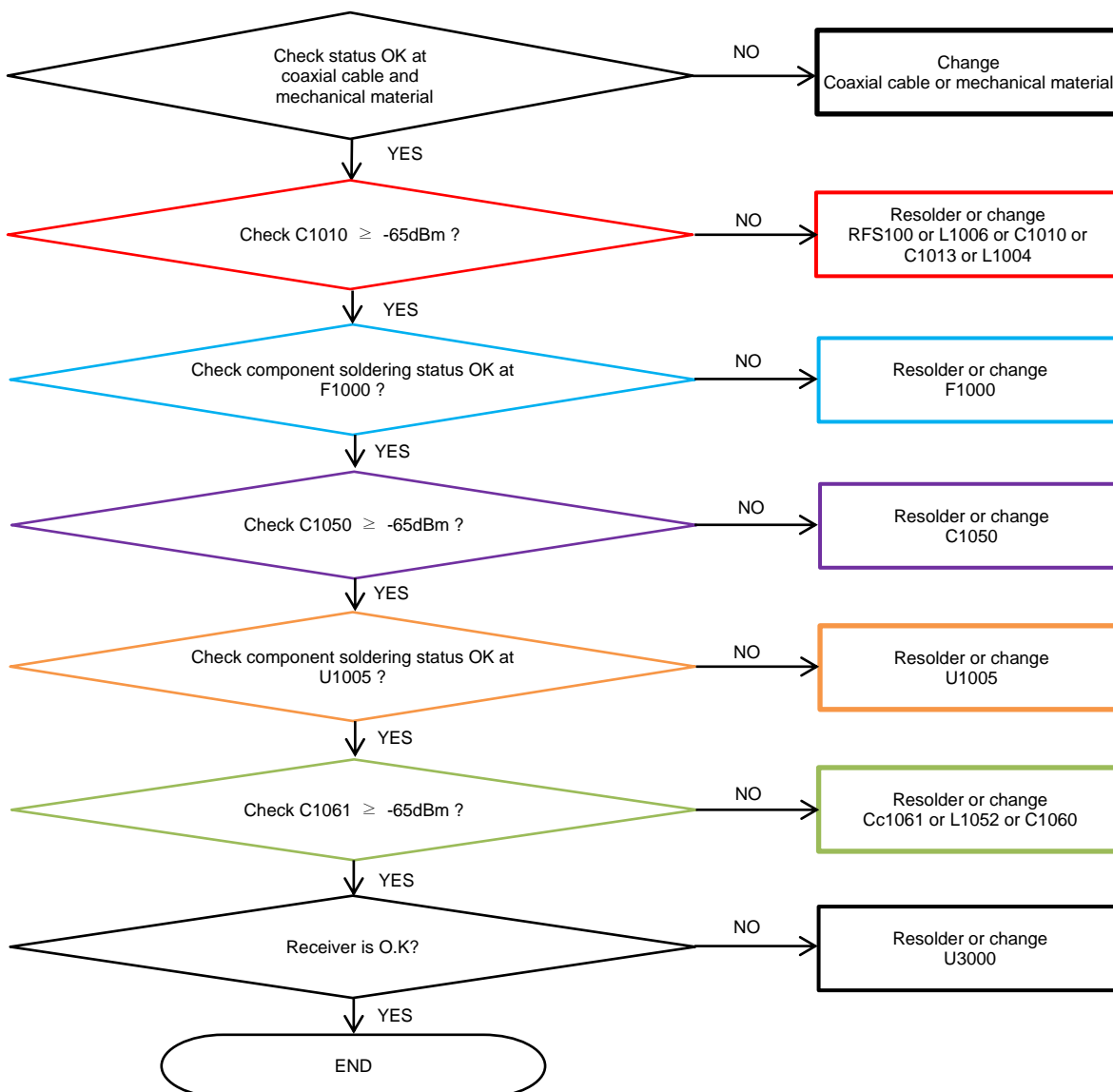
8. Level 3 Repair

8-4-25. DCS1800/PCS1900, WCDMA B2, LTE B2/3/25 PRx



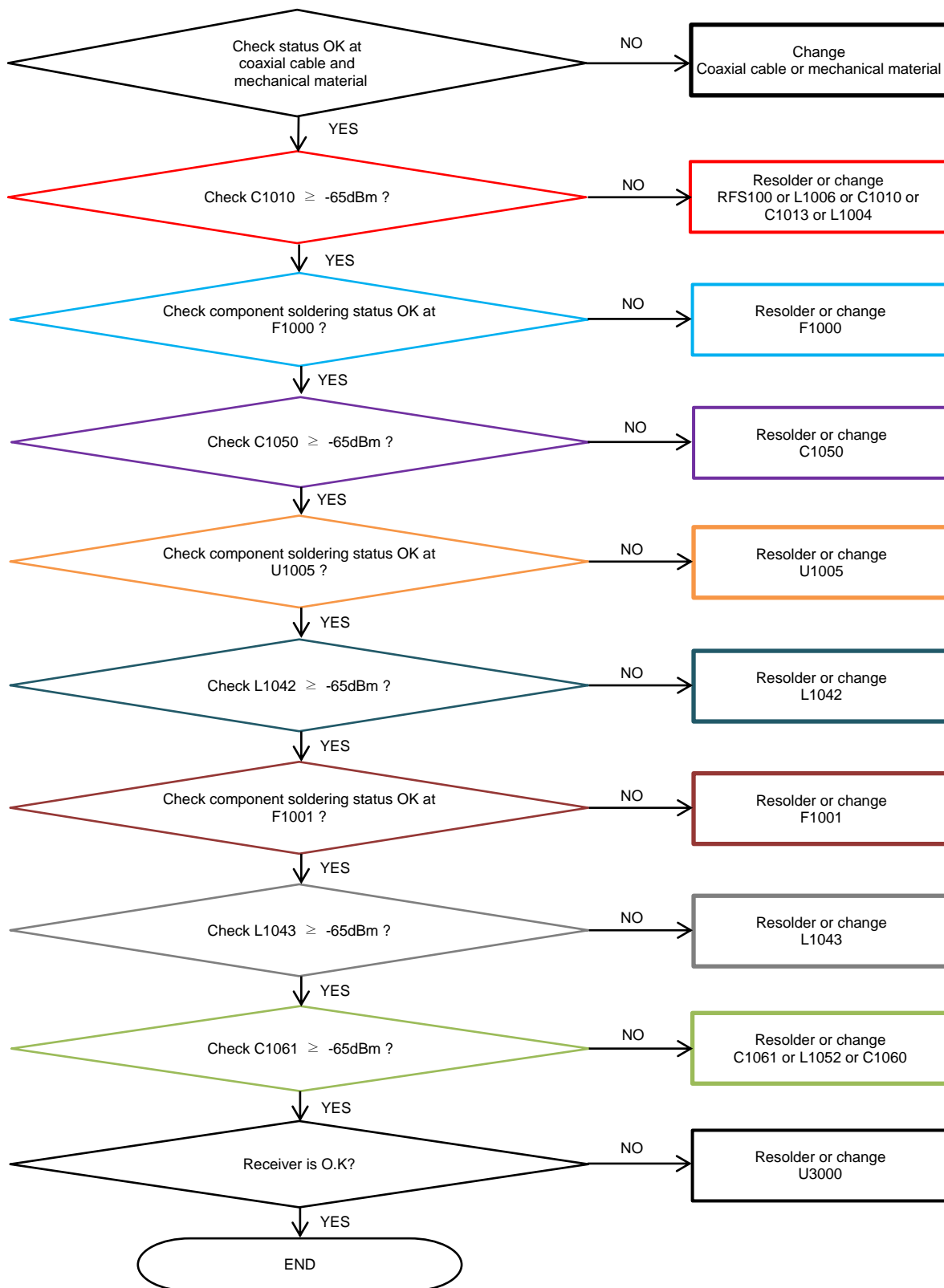
8. Level 3 Repair

8-4-26. WCDMA B1/4, TDSCDMA B39, LTE B1/4/39/66 PRx



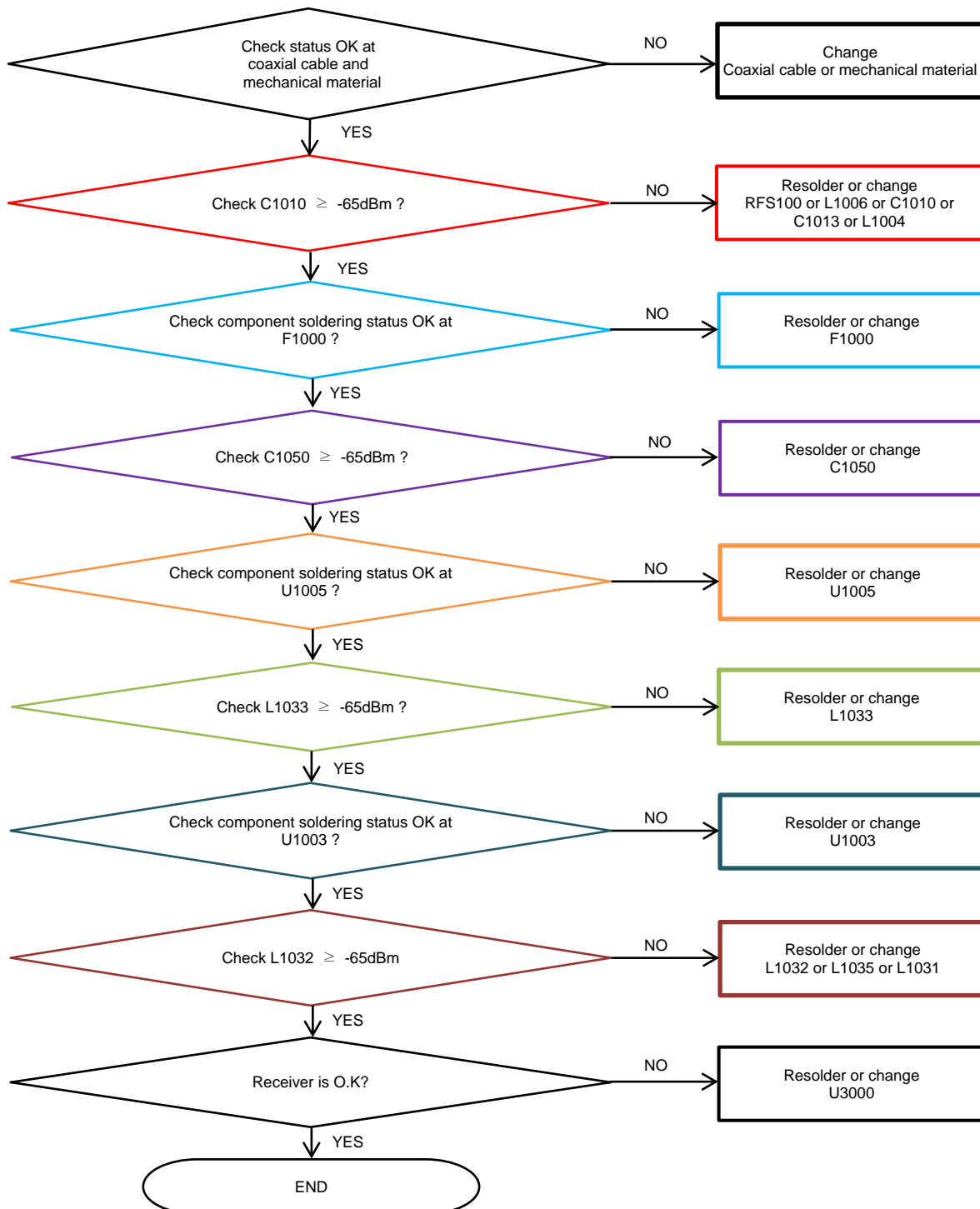
8. Level 3 Repair

8-4-27. TDSCDMA B34, LTE B34 PRx



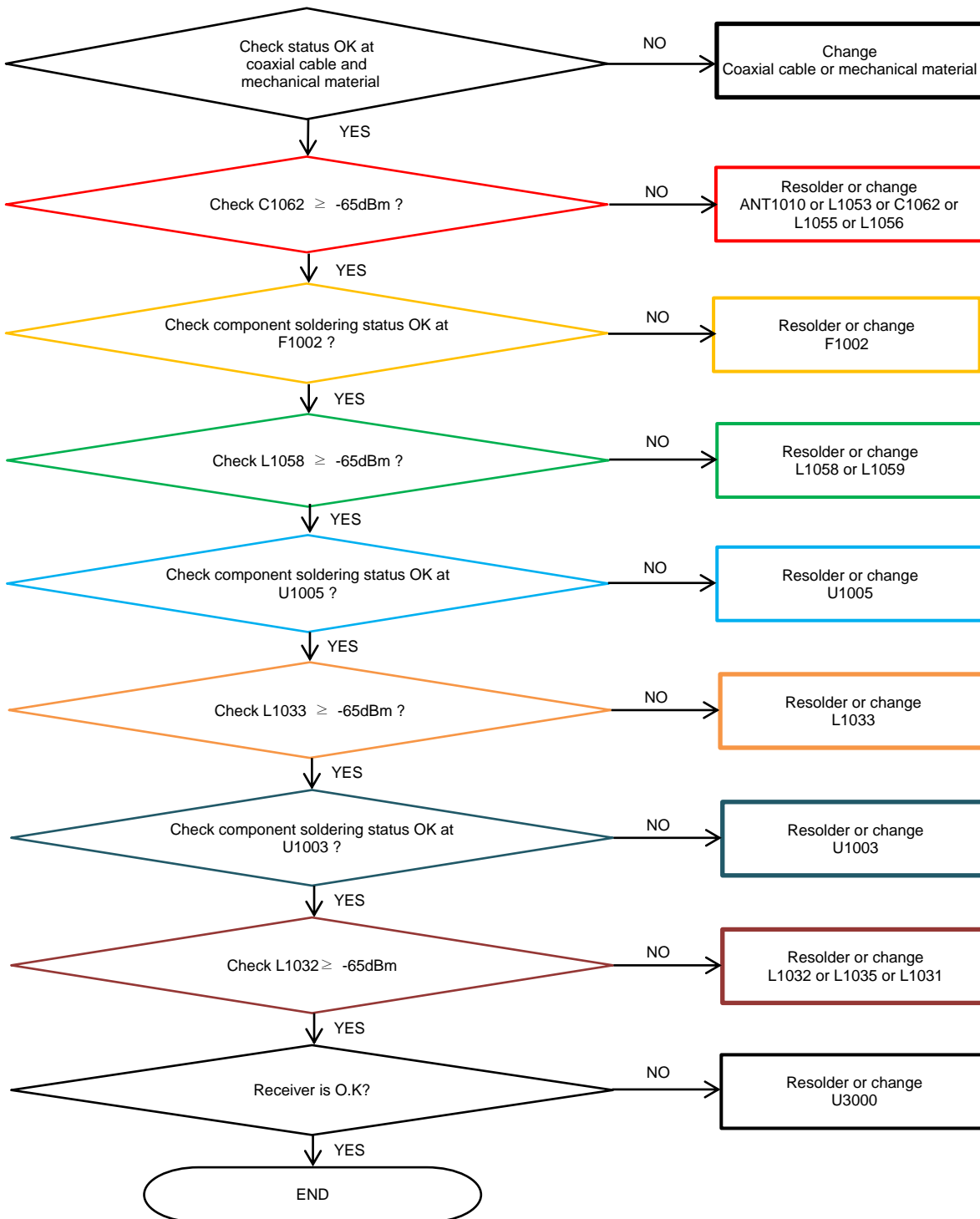
8. Level 3 Repair

8-4-28. LTE B32 PRx



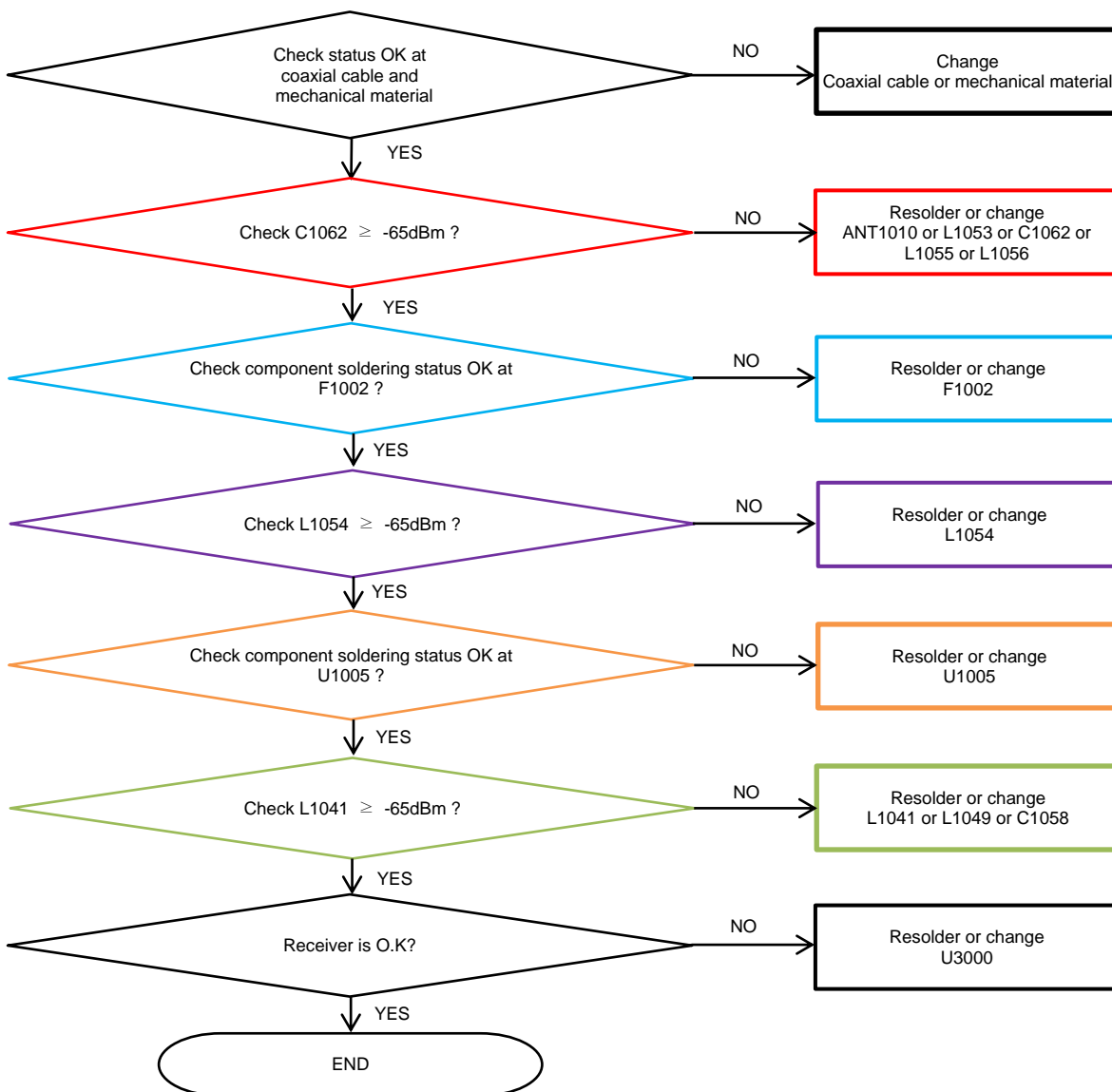
8. Level 3 Repair

8-4-29. LTE B1/4 4Rx_PRx



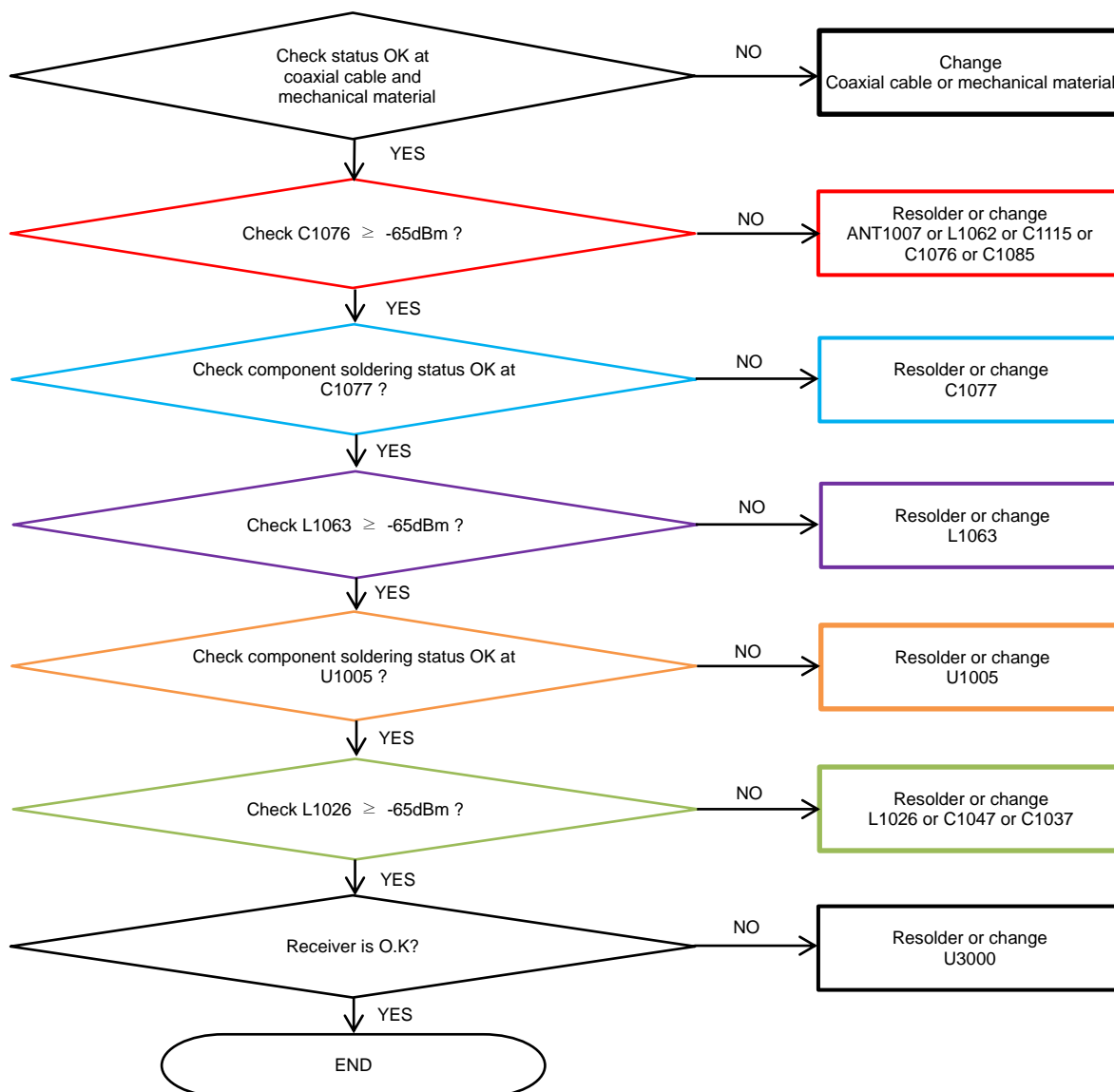
8. Level 3 Repair

8-4-30. LTE B3 4Rx_PRx



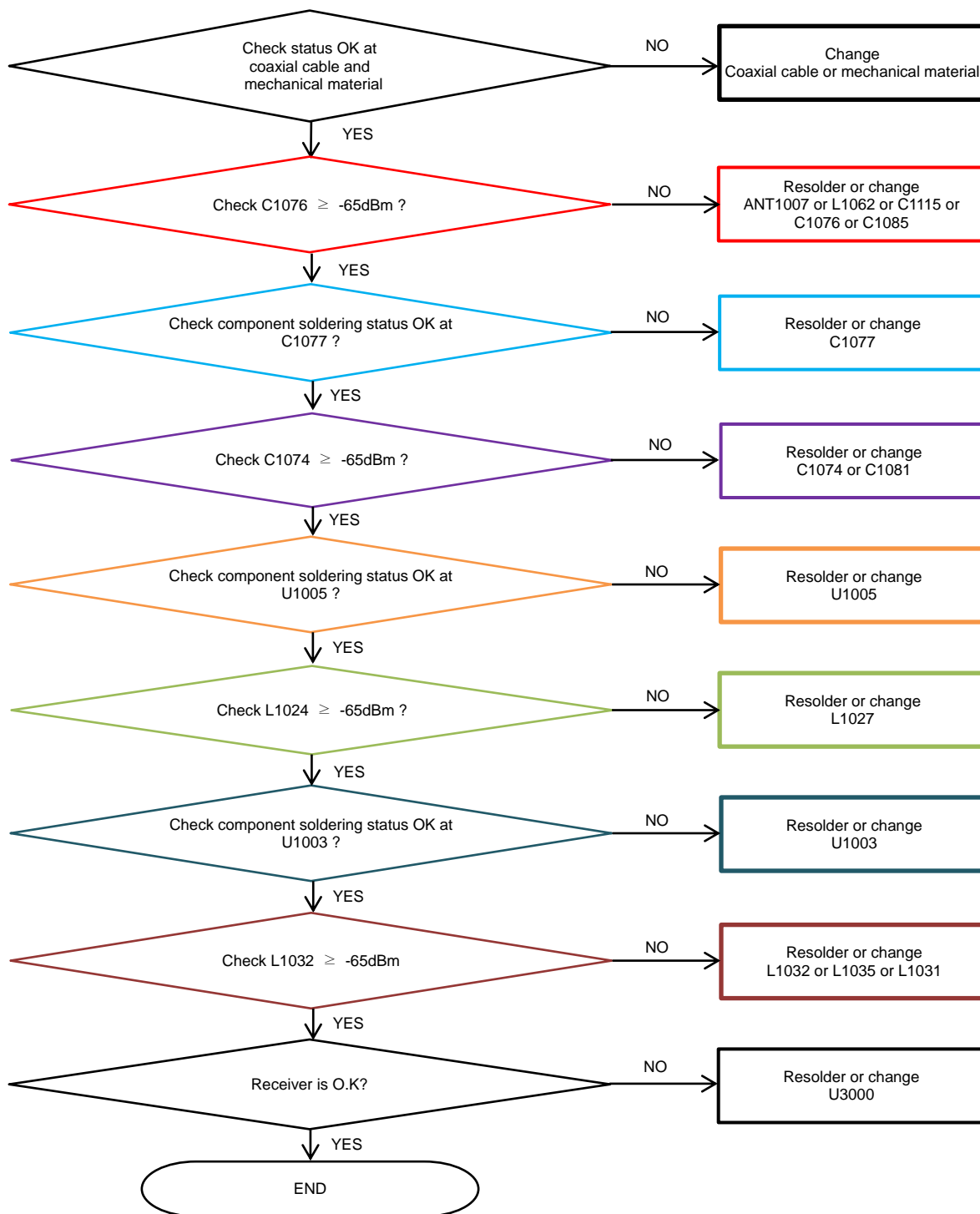
8. Level 3 Repair

8-4-31. LTE B7 4Rx_PRx



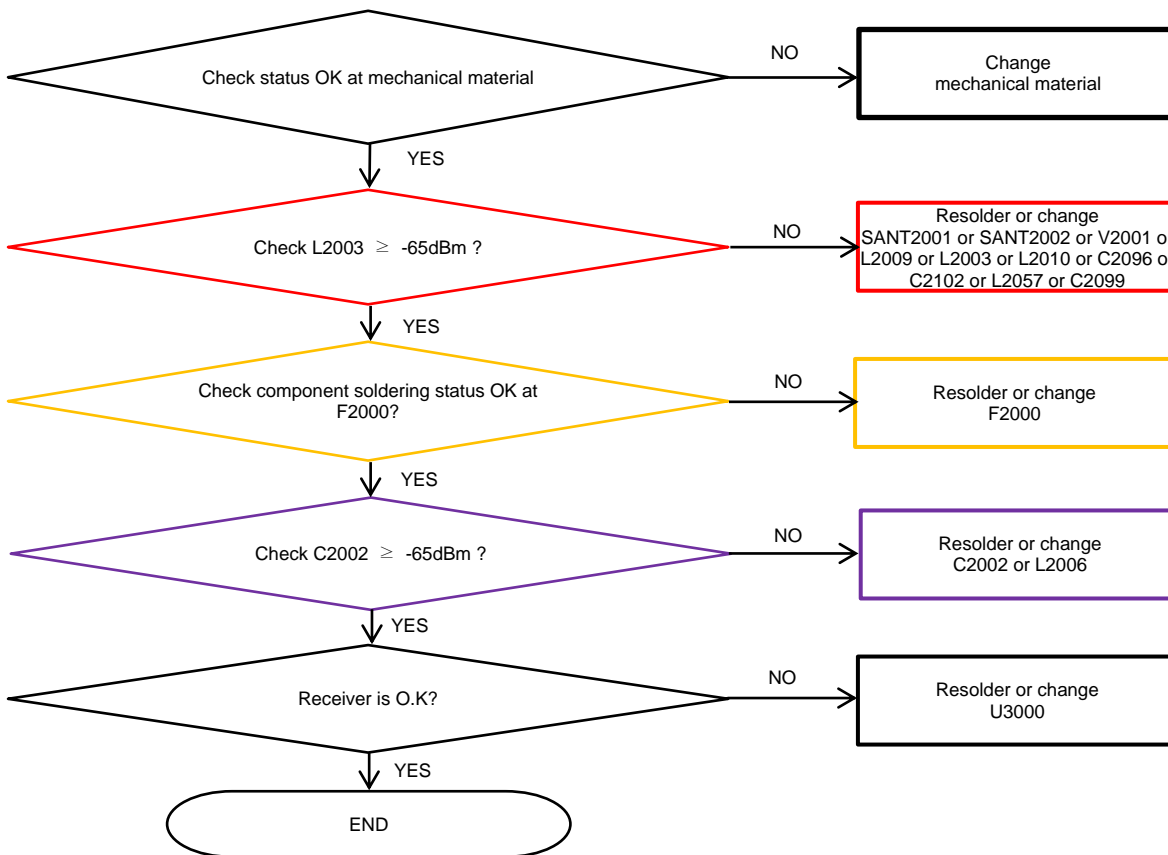
8. Level 3 Repair

8-4-32. LTE 40 4Rx_PRx



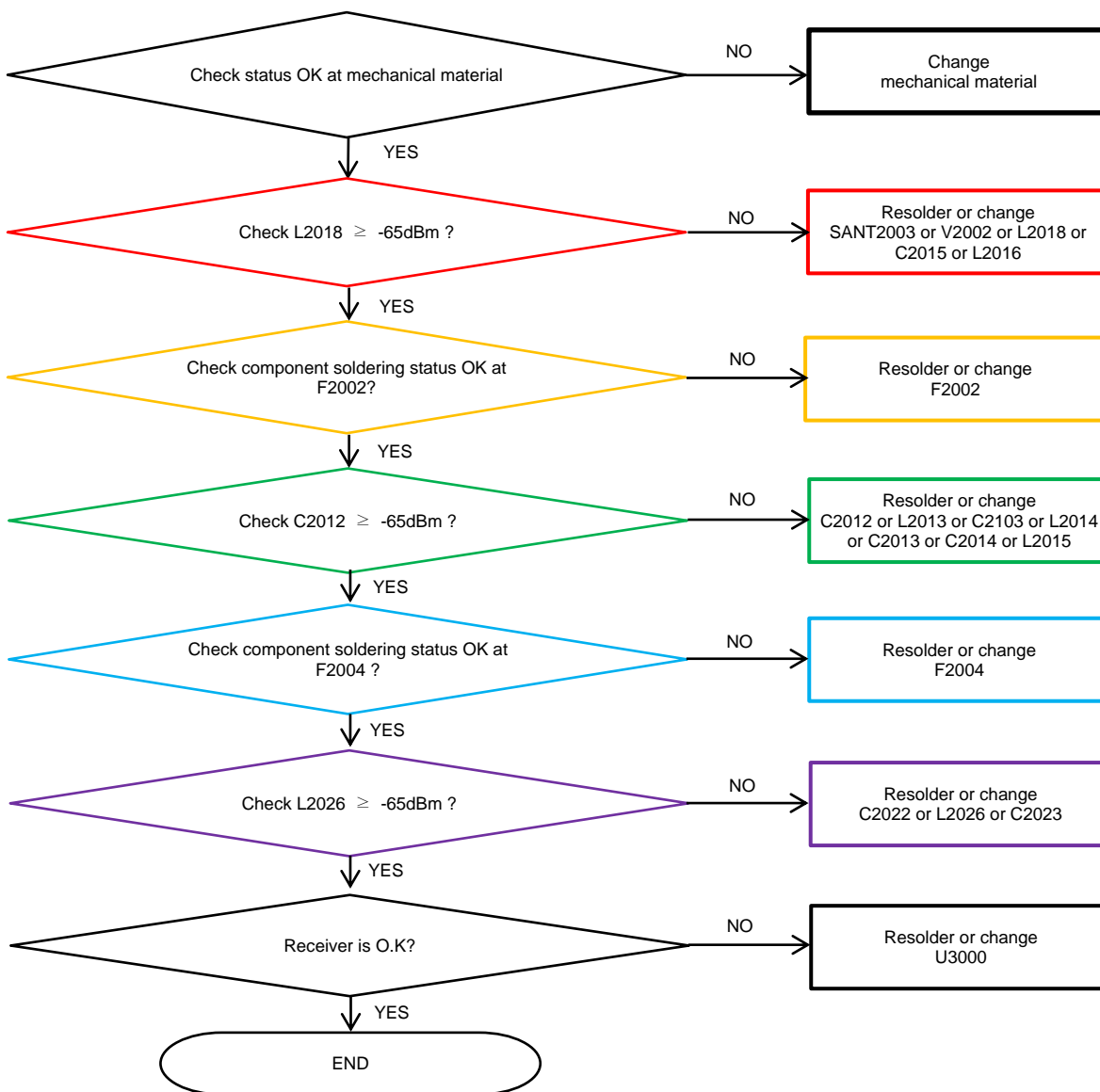
8. Level 3 Repair

8-4-33. GSM850/900, WCDMA B5/8, LTE B5/8/12/13/17/18/19/20/26/28 DRx



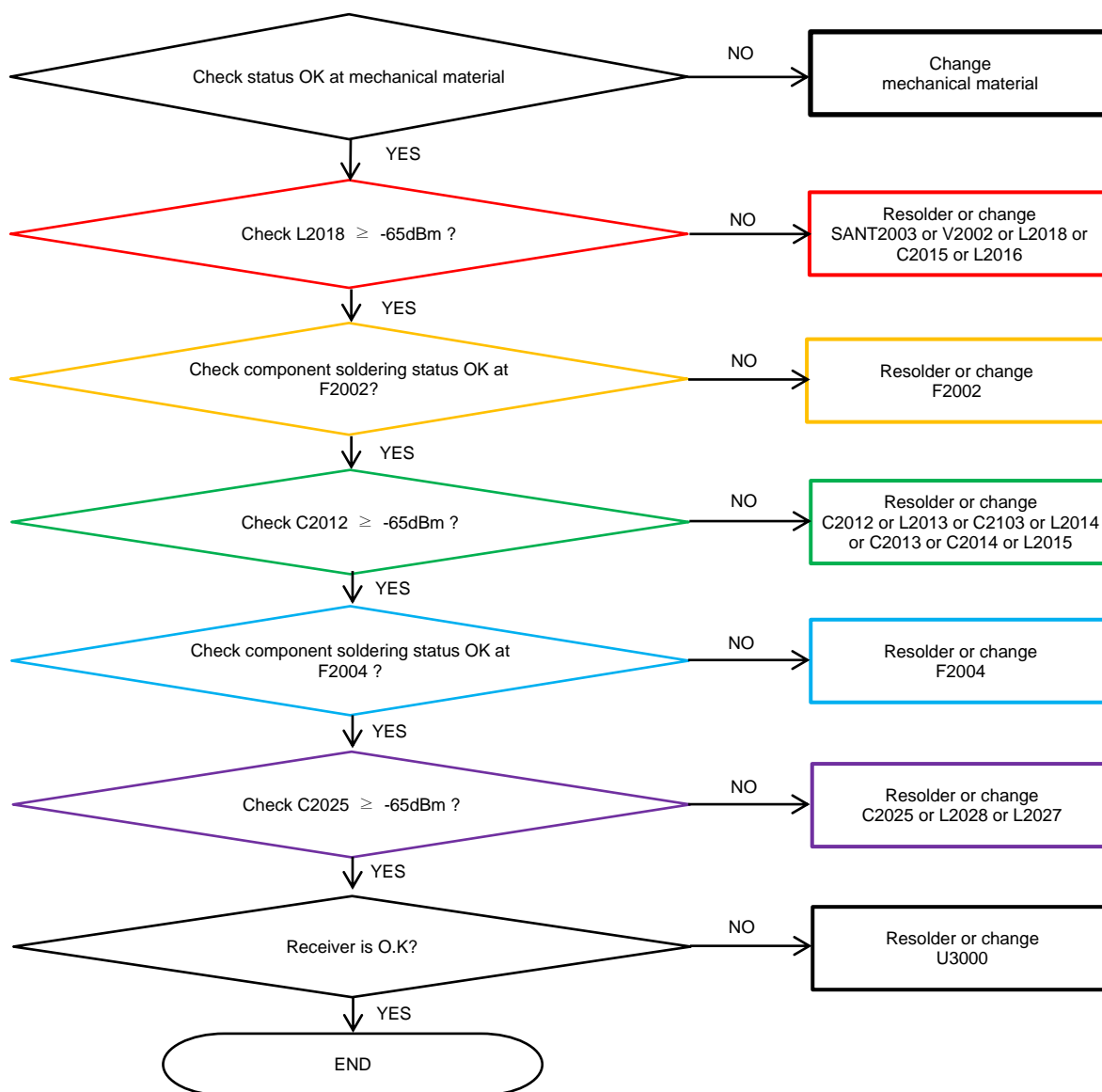
8. Level 3 Repair

8-4-34. DCS1800/PCS1900, WCDMA B2, LTE B2/3/25 DRx



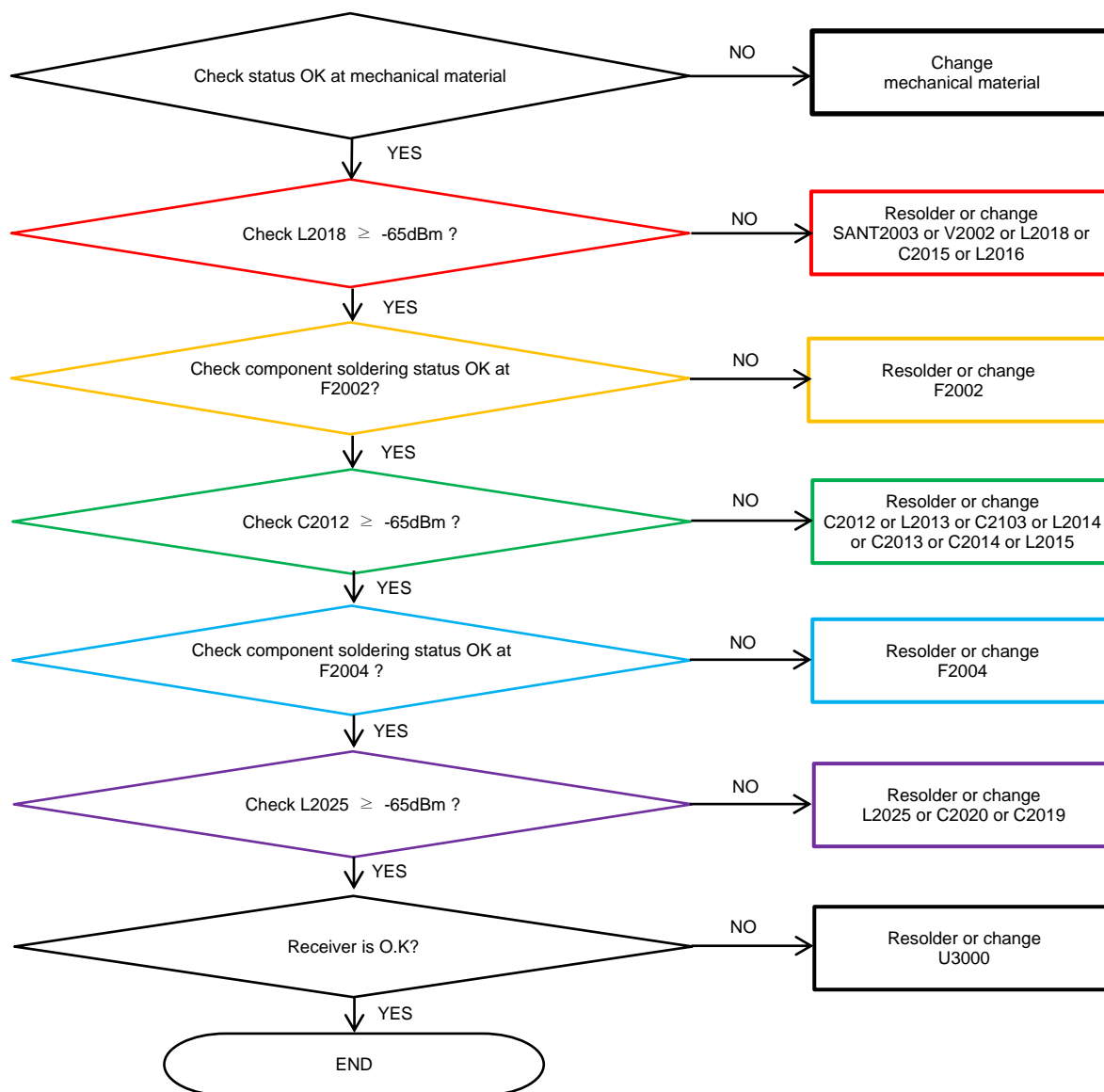
8. Level 3 Repair

8-4-35. WCDMA B1/4, LTE B1/4/32/66 DRx



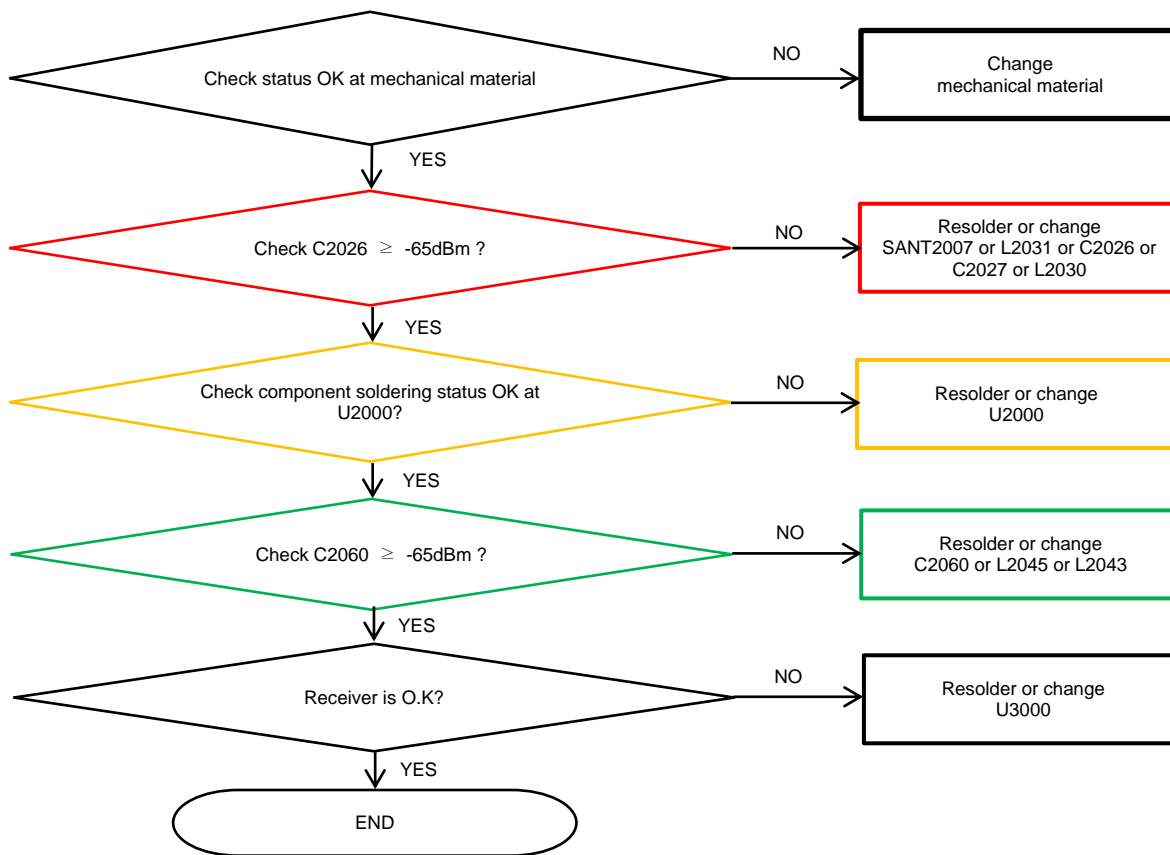
8. Level 3 Repair

8-4-36. TDSCDMA B38/40/41, LTE B7/38/40/41 DRx



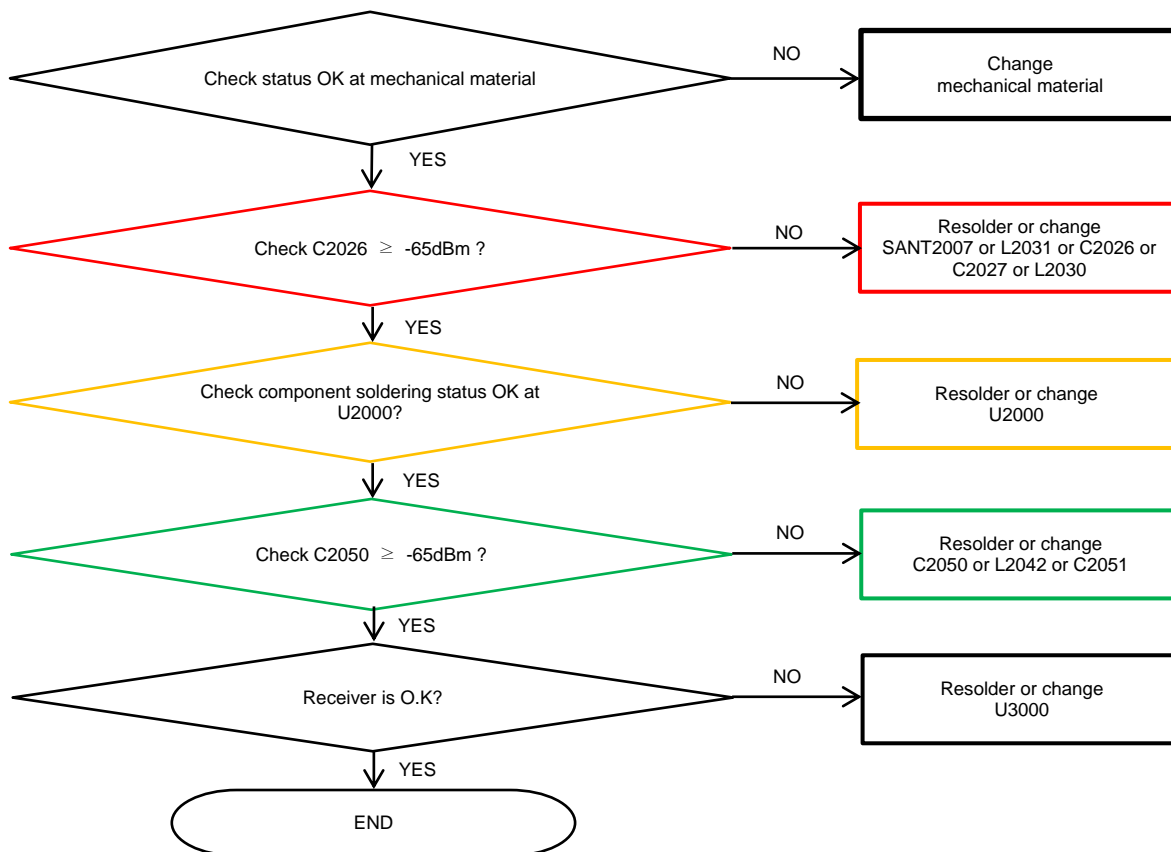
8. Level 3 Repair

8-4-37. LTE B1/4 4Rx_DRx



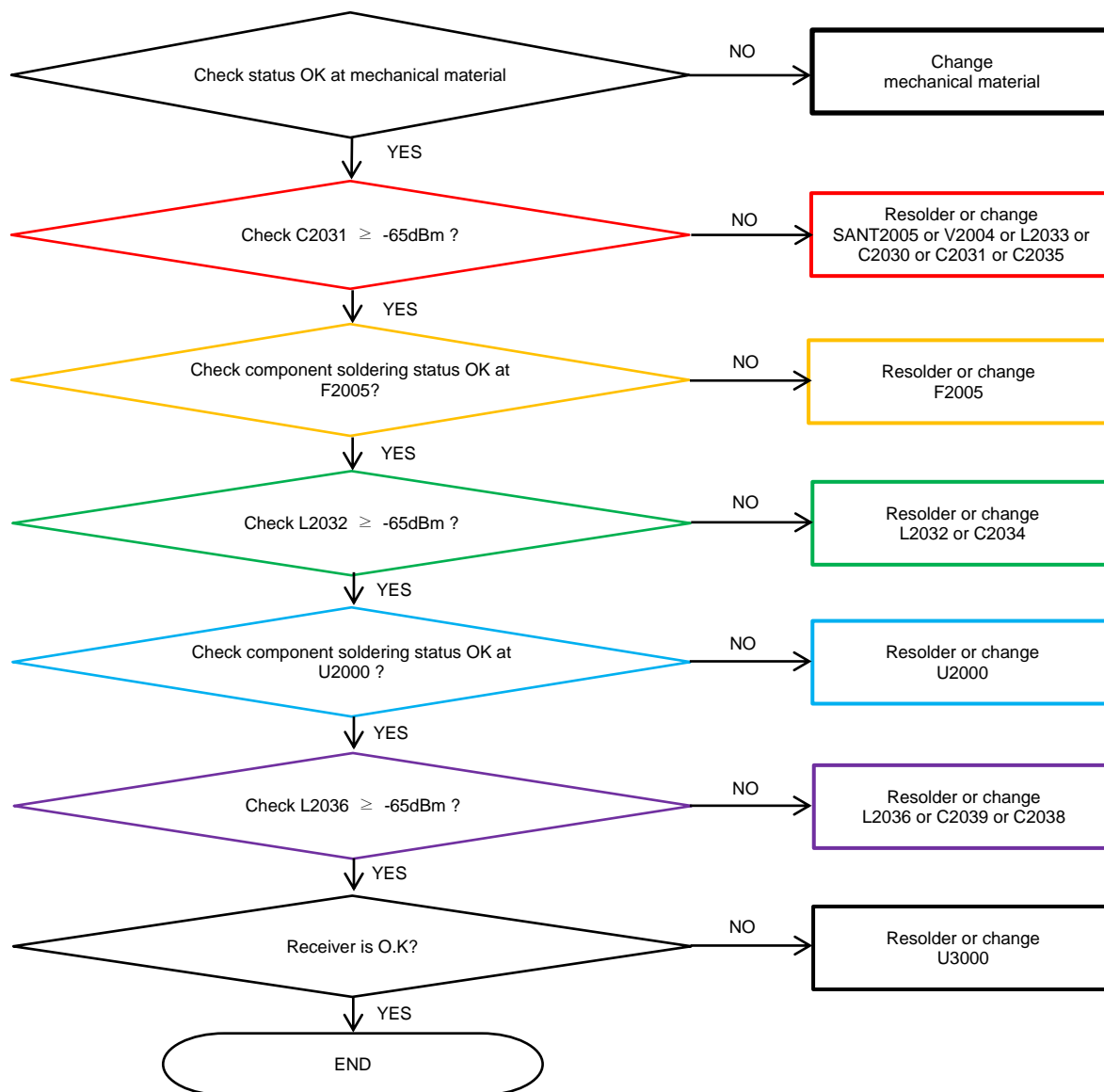
8. Level 3 Repair

8-4-38. LTE B3 4Rx_DRx



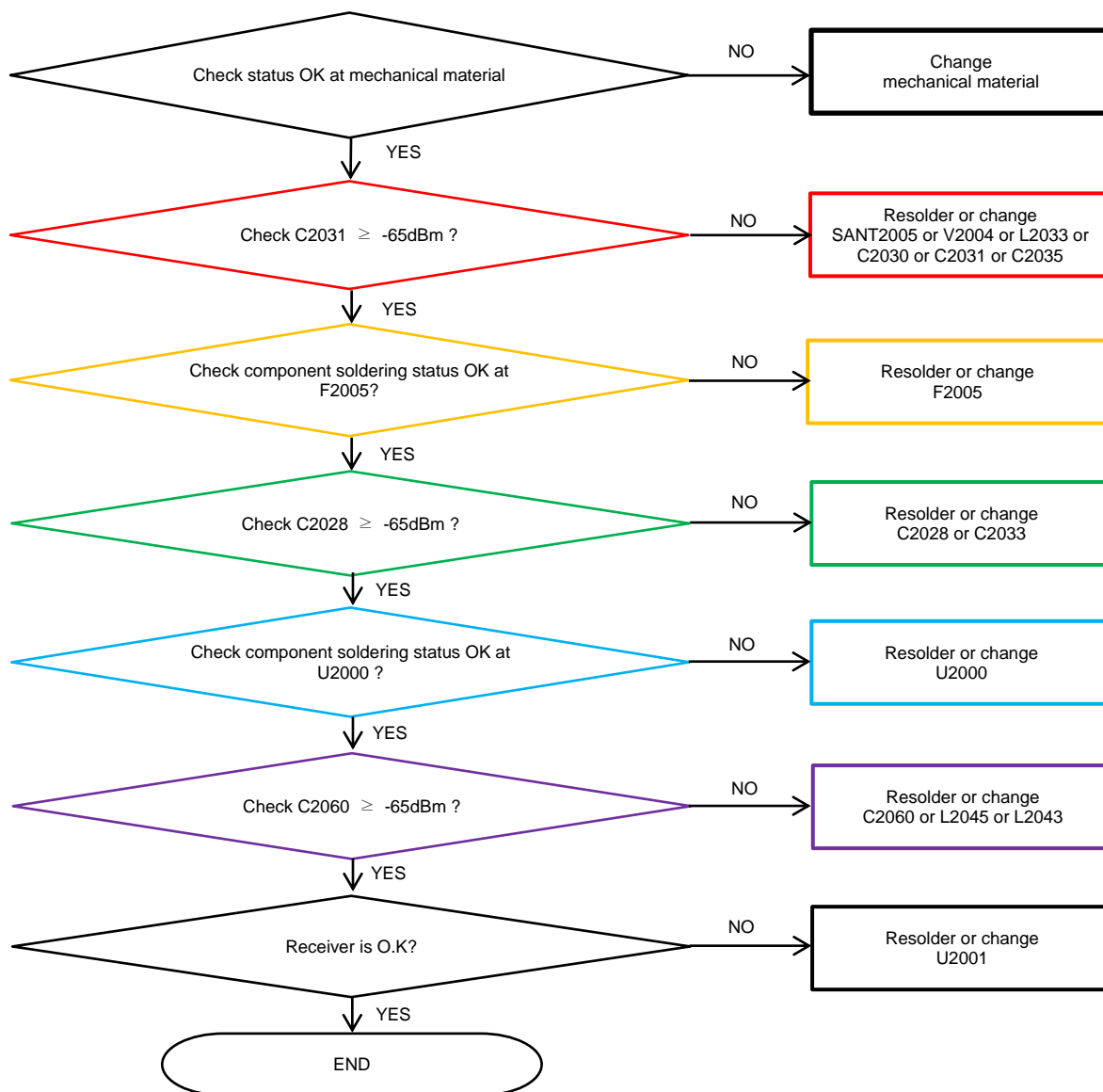
8. Level 3 Repair

8-4-39. LTE B7 4Rx_DRx



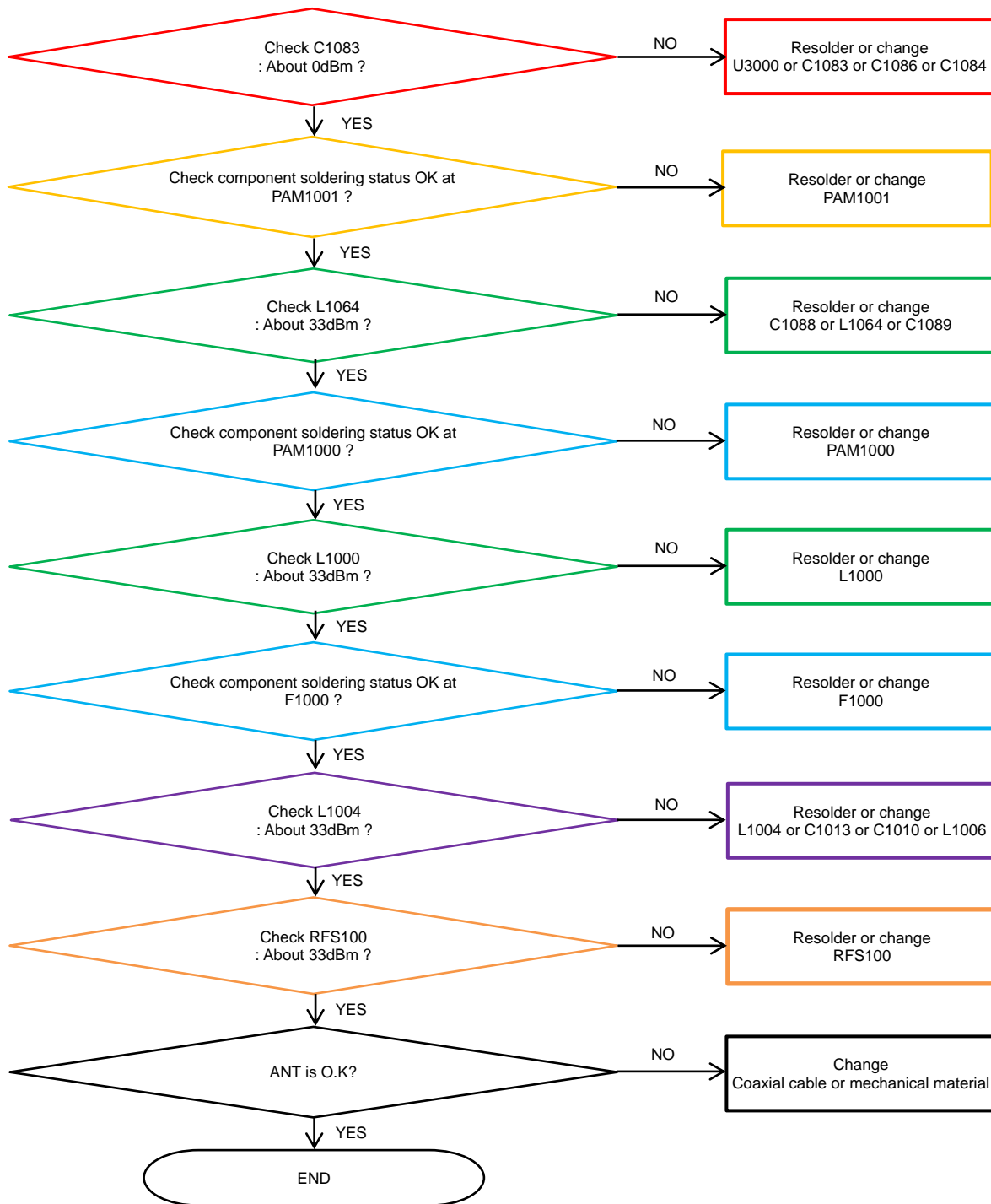
8. Level 3 Repair

8-4-40. LTE B40 4Rx_DRx



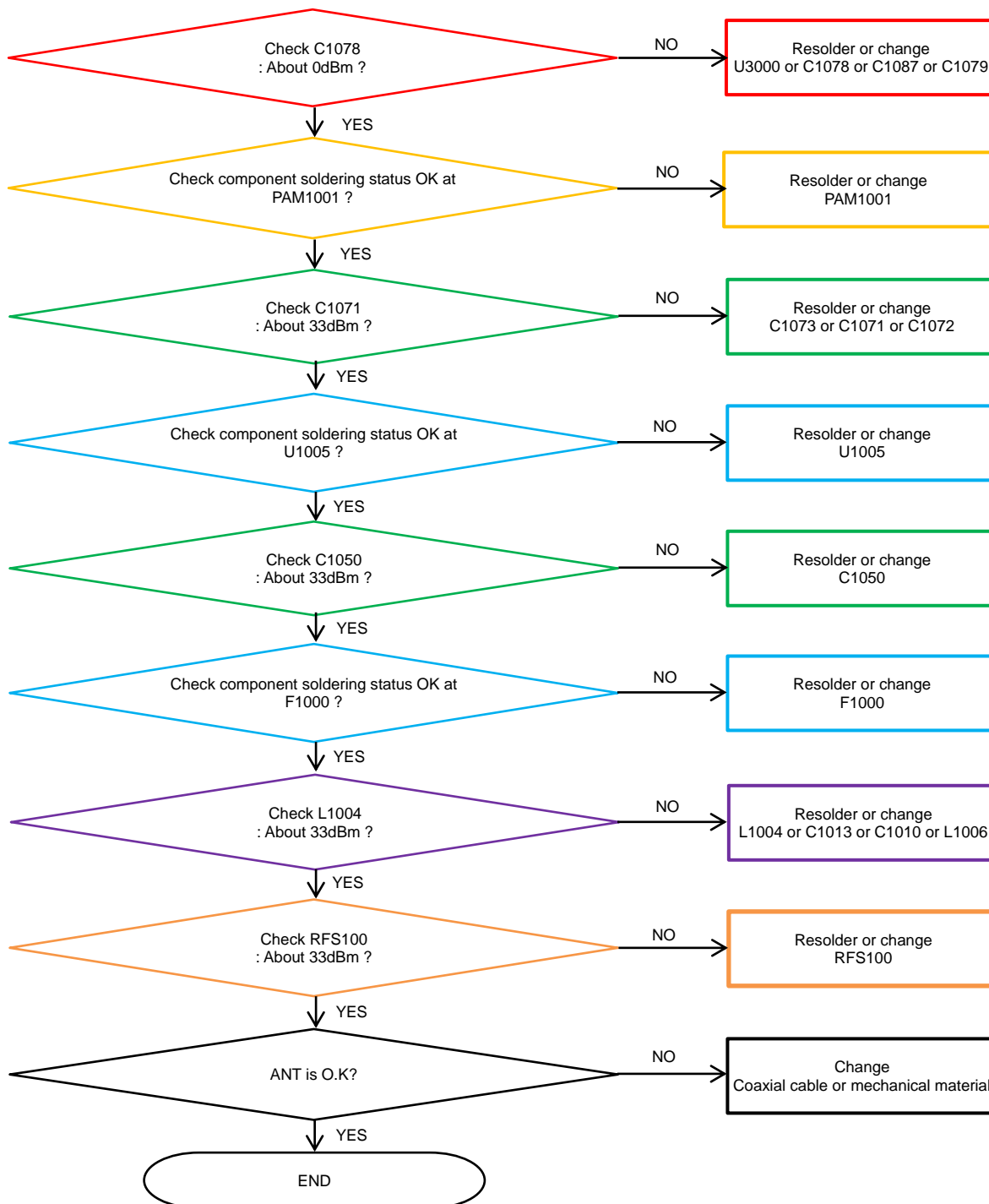
8. Level 3 Repair

8-4-41. GSM 850/900 Tx



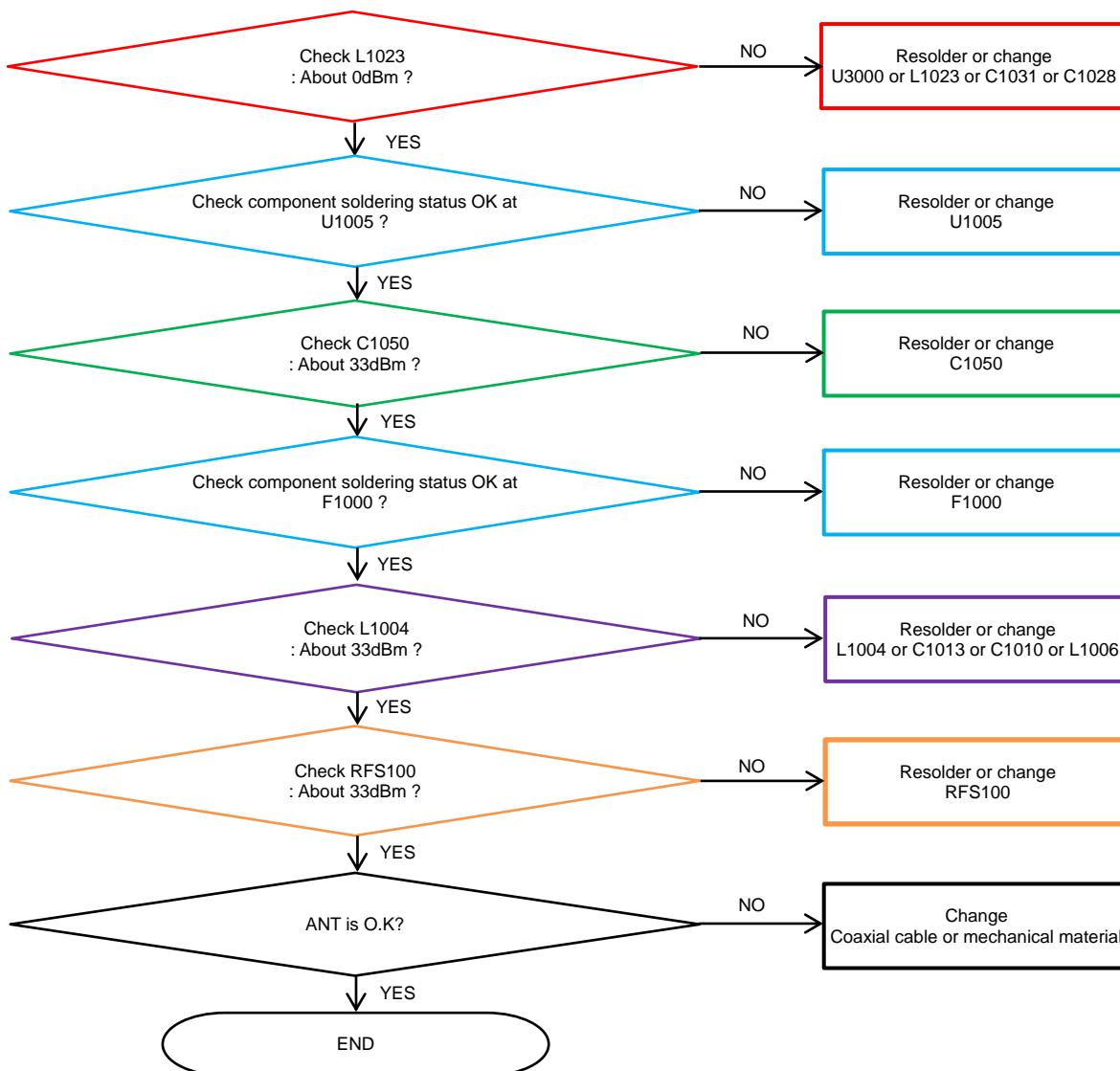
8. Level 3 Repair

8-4-42. DCS1800/PCS1900 Tx



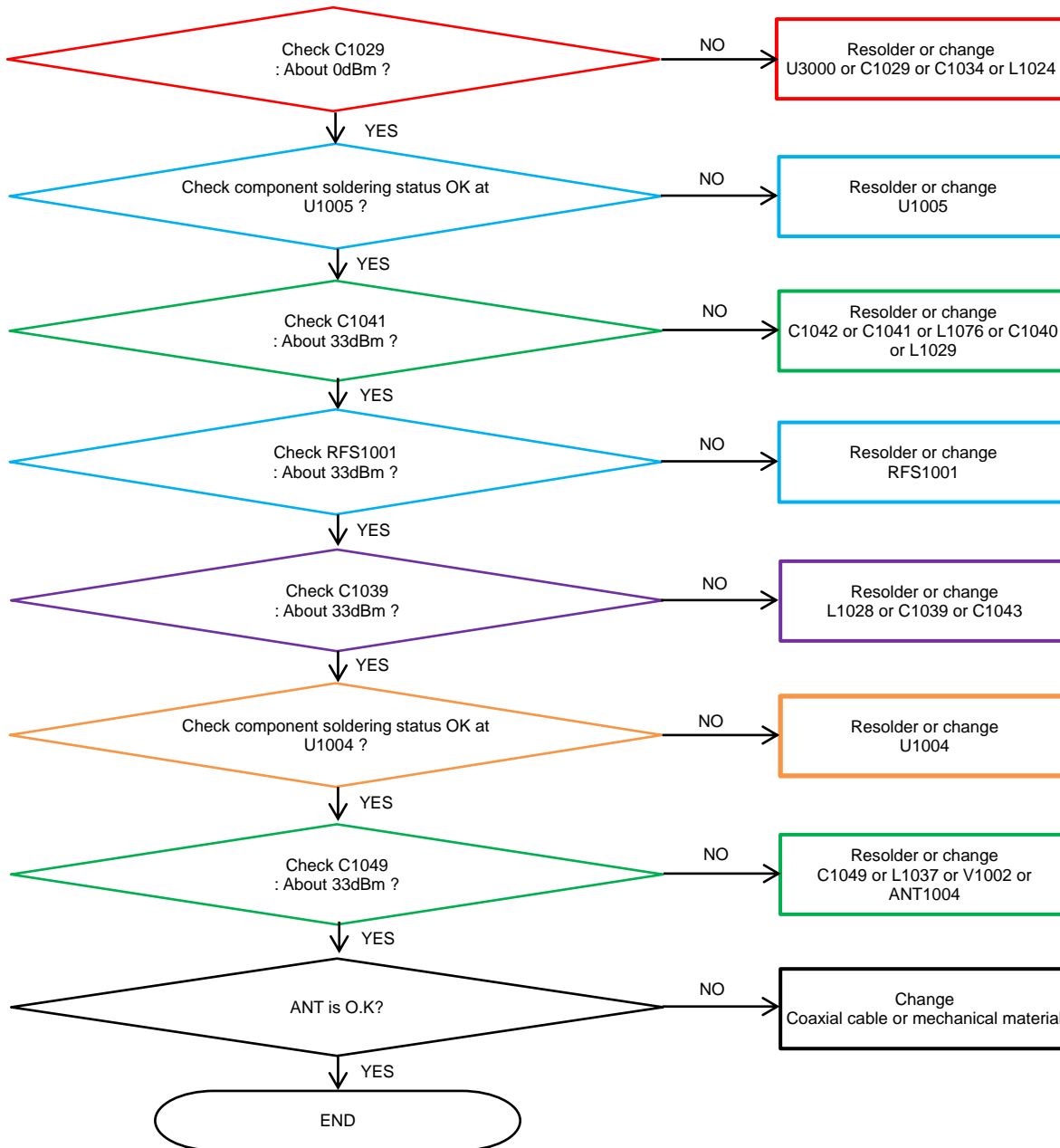
8. Level 3 Repair

8-4-43. WCDMA B1/2/4, TDSCDMA B34/39, LTE B1/2/3/4/25/34/39 Tx



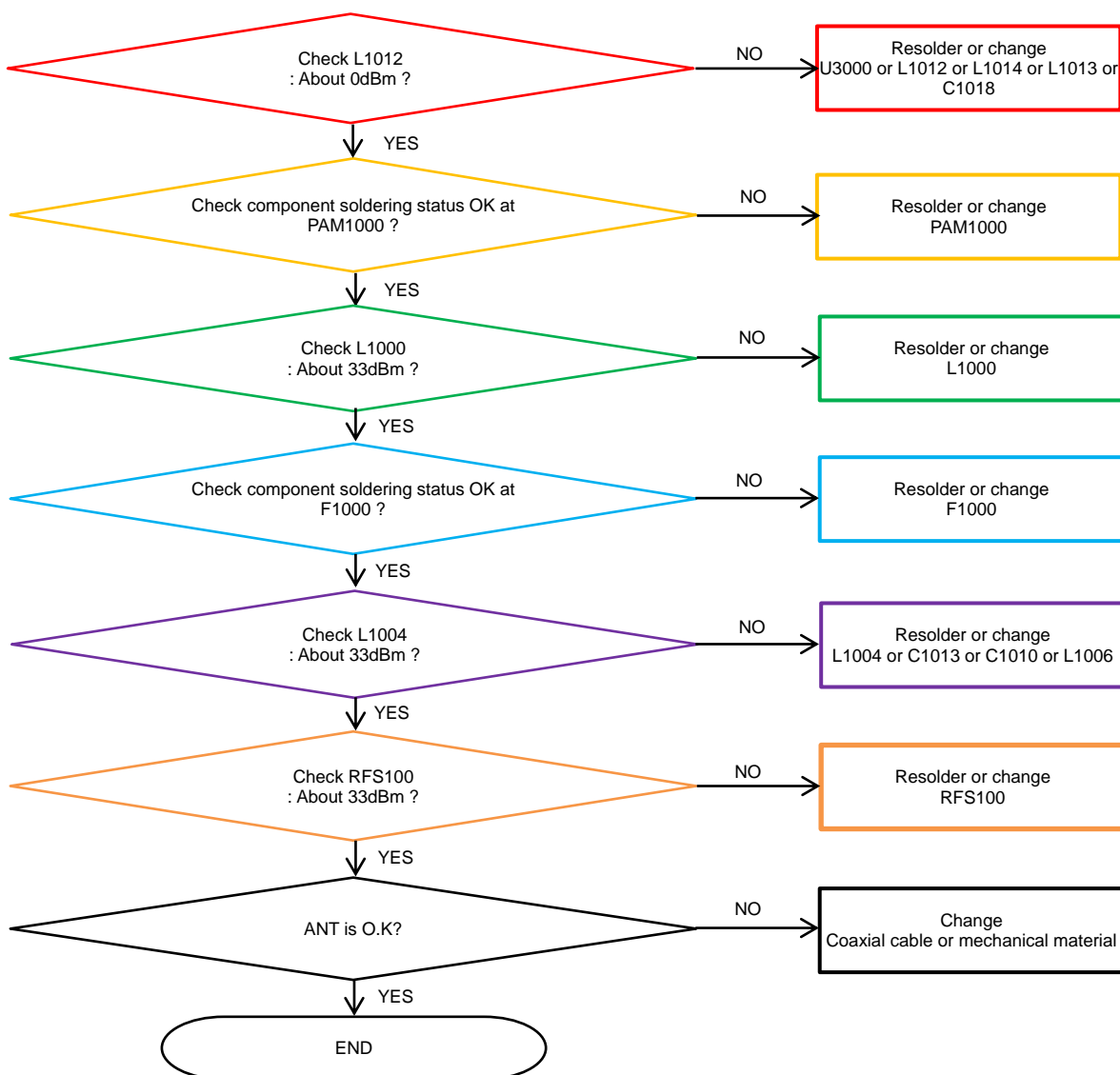
8. Level 3 Repair

8-4-44. TDSCDMA B38/40/41, LTE B7/38/40/41 Tx



8. Level 3 Repair

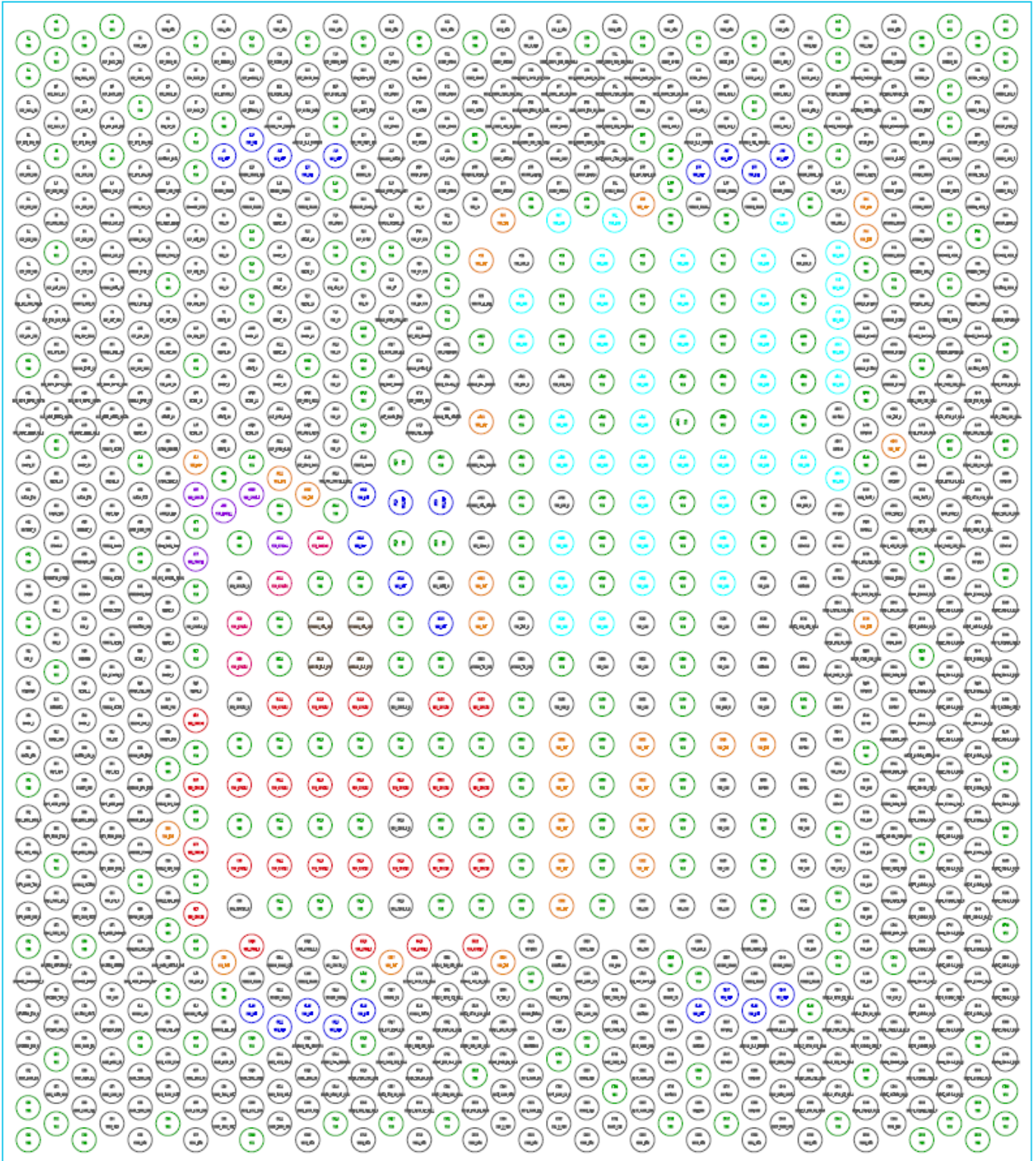
8-4-45. WCDMA B5/8, LTE B5/8/12/13/17/18/19/20/26/28 Tx



8. Level 3 Repair

8-5. Service Schematics

- AP Top view



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9. Reference Abbreviation

Reference Abbreviation

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

SAMSUNG