

SAMSUNG

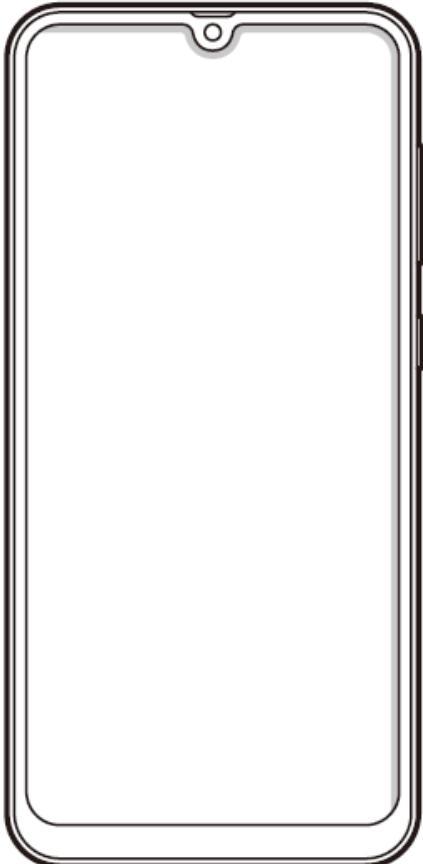
Mobile Device SM-A505F/FN/FM/GT/ G/GN Common

SERVICE

Manual

Mobile Device

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

2. Specification

2-1. GSM General Specification

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

2. Specification

2-2. GSM Tx Power Class

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

2. Specification

2-3-1. WCDMA General Specification[SM-A505F/FN/FM]

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

2. Specification

2-3-2. WCDMA General Specification[SM-A505G/GN/GT]

| 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 Band3 | LTE Band5 | LTE Band7 |
|--------------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| Freq. Band[MHz] Uplink/Downlink | 1920~1980 2110~2170 | 1710~1785 1805~1880 | 824~849 869~894 | 2500~2570 2620~2690 |
| ARFCN range | UL:18000~18599 DL:0~599 | UL:19200~19949 DL:1200~1949 | UL:20400~20649 DL:2400~2649 | UL:20750~21449 DL:2750~3449 |
| Tx/Rx spacing (MHz) | 190 | 95 | 45 | 120 |
| Channel Bandwidth (MHz) | 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) |
| MS Power (dBm) | 25.7~-39(↓) | 25.7~-39(↓) | 25.7~-39(↓) | 25.7~-39(↓) |
| Sensitivity(QPSK, BW 10MHz) (dBm) | -96.3 | -93.3 | -94.3 | -94.3 |

| Item | LTE Band8 | LTE Band38 | LTE Band40 | LTE Band41 |
|--------------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| Freq. Band[MHz] Uplink/Downlink | 880~915 925~960 | 2570~2620 | 2300~2400 | 2496~2690 |
| ARFCN range | UL:21450-21799 DL:3450-3799 | UL/DL:37750 ~ 38249 | UL/DL:38650 ~ 39649 | UL/DL:39650 ~ 41589 |
| Tx/Rx spacing (MHz) | 45 | 0 | 0 | 0 |
| Channel Bandwidth (MHz) | 1.4/3/5/10 | 5/10/15/20 | 5/10/15/20 | 5/10/15/20 |
| Modulation | QPSK,16/64QAM 256QAM(DL only) | QPSK,16/64QAM 256QAM(DL only) | QPSK,16/64QAM 256QAM(DL only) | QPSK,16/64QAM 256QAM(DL only) |
| MS Power (dBm) | 25.7~-39(↓) | 25.7~-39(↓) | 25.7~-39(↓) | 25.7~-39(↓) |
| Sensitivity(QPSK, BW 10MHz) (dBm) | -93.3 | -96.3 | -96.3 | -94.3 |

2. Specification

[SM-A505F/FN/FM]

| Item | LTE Band20 |
|------------------------------------|----------------------------------|
| Freq. Band[MHz] Uplink/Downlink | 832~862 791~821 |
| ARFCN range | UL:24150~24449 DL:6150~6449 |
| Tx/Rx spacing (MHz) | -41 |
| Channel Bandwidth (MHz) | 5/10/15/20 |
| Modulation | QPSK,16/64QAM 256QAM(DL only) |
| MS Power (dBm) | 25.7~-39(↓) |
| Sensitivity(QPSK, BW 10MHz) (dBm) | -93.3 |

2. Specification

[SM-A505G/GN]

| Item | LTE Band2 | LTE Band4 | LTE Band12 | LTE Band13 |
|------------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| Freq. Band[MHz] Uplink/Downlink | 1850~1910 1930~1990 | 1710~1755 2110~2155 | 699~716 729~746 | 777~787 746~756 |
| ARFCN range | UL:18600~19199 DL:600~1199 | UL:19950~20399 DL:1950~2399 | UL:23010~23179 DL:5010~5179 | UL:23180~23279 DL:5180~5279 |
| Tx/Rx spacing (MHz) | 80 | 400 | 30 | -31 |
| Channel Bandwidth (MHz) | 1.4/3/5/10/15/20 | 1.4/3/5/10/15/20 | 1.4/3/5/10 | 1.4/3/5/10 |
| Modulation | QPSK,16/64QAM 256QAM(DL only) | QPSK,16/64QAM 256QAM(DL only) | QPSK,16/64QAM 256QAM(DL only) | QPSK,16/64QAM 256QAM(DL only) |
| MS Power (dBm) | 25.7~-39(↓) | 25.7~-39(↓) | 25.7~-39(↓) | 25.7~-39(↓) |
| Sensitivity(QPSK, BW 10MHz)(dBm) | -94.3 | -96.3 | -93.3 | -93.3 |

| Item | LTE Band17 | LTE Band28 | LTE Band66 |
|---------------------------------------|----------------------------------|----------------------------------|------------------------------------|
| Freq. Band[MHz] Uplink/Downlink | 704~716 734~746 | 703~748 758~803 | 1710~1780 2110~2200 |
| ARFCN range | UL:23730~23849 DL:5730~5849 | UL:27210~27659 DL:9210~9659 | UL:131972~132671 DL:66436~67335 |
| Tx/Rx spacing (MHz) | 30 | 55 | 400 |
| Channel Bandwidth (MHz) | 5/10 | 3/5/10/15/20 | 1.4/3/5/10/15/20 |
| Modulation | QPSK,16/64QAM 256QAM(DL only) | QPSK,16/64QAM 256QAM(DL only) | QPSK,16/64QAM 256QAM(DL only) |
| MS Power (dBm) | 25.7~-39(↓) | 25.7~-39(↓) | 25.7~-39(↓) |
| Sensitivity (QPSK, BW 10MHz) (dBm) | -93.3 | -94.8 | -95.8 |

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2. Specification

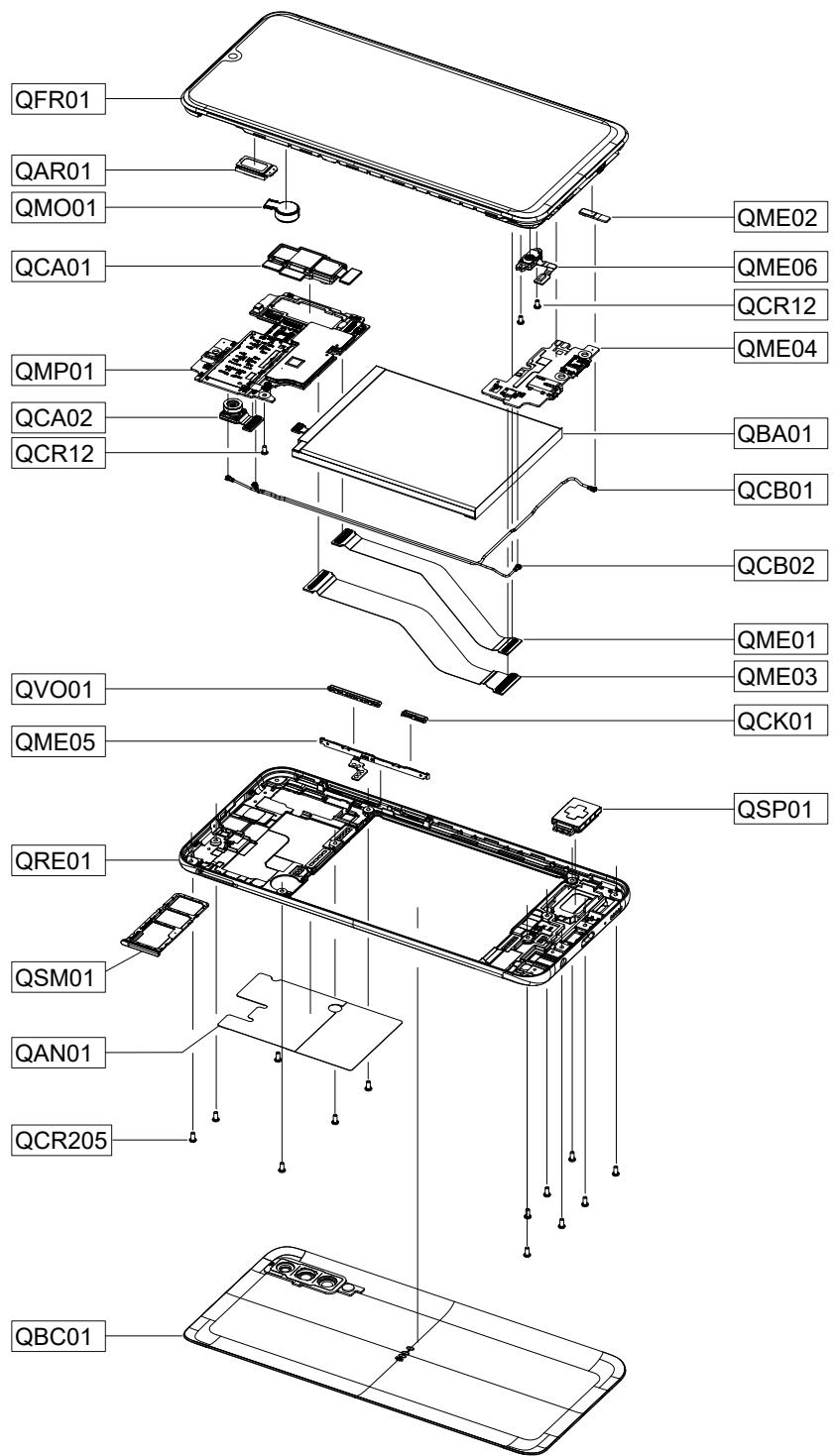
[SM-A505GT]

| Item | LTE Band2 | LTE Band4 | LTE Band12 | LTE Band13 |
|-------------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| Freq. Band[MHz] Uplink/Downlink | 1850~1910 1930~1990 | 1710~1755 2110~2155 | 699~716 729~746 | 777~787 746~756 |
| ARFCN range | UL:18600~19199 DL:600~1199 | UL:19950~20399 DL:1950~2399 | UL:23010~23179 DL:5010~5179 | UL:23180~23279 DL:5180~5279 |
| Tx/Rx spacing (MHz) | 80 | 400 | 30 | -31 |
| Channel Bandwidth (MHz) | 1.4/3/5/10/15/20 | 1.4/3/5/10/15/20 | 1.4/3/5/10 | 1.4/3/5/10 |
| Modulation | QPSK,16/64QAM 256QAM(DL only) | QPSK,16/64QAM 256QAM(DL only) | QPSK,16/64QAM 256QAM(DL only) | QPSK,16/64QAM 256QAM(DL only) |
| MS Power (dBm) | 25.7~-39(↓) | 25.7~-39(↓) | 25.7~-39(↓) | 25.7~-39(↓) |
| Sensitivity(QPSK, BW 10MHz)(dBm) | -94.3 | -96.3 | -93.3 | -93.3 |

| Item | LTE Band17 | LTE Band20 | LTE Band28 | LTE Band66 |
|---------------------------------------|----------------------------------|----------------------------------|----------------------------------|------------------------------------|
| Freq. Band[MHz] Uplink/Downlink | 704~716 734~746 | 832~862 791~821 | 703~748 758~803 | 1710~1780 2110~2200 |
| ARFCN range | UL:23730~23849 DL:5730~5849 | UL:24150~24449 DL:6150~6449 | UL:27210~27659 DL:9210~9659 | UL:131972~132671 DL:66436~67335 |
| Tx/Rx spacing (MHz) | 30 | -41 | 55 | 400 |
| Channel Bandwidth (MHz) | 5/10 | 5/10/15/20 | 3/5/10/15/20 | 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) |
| MS Power (dBm) | 25.7~-39(↓) | 25.7~-39(↓) | 25.7~-39(↓) | 25.7~-39(↓) |
| Sensitivity (QPSK, BW 10MHz) (dBm) | -93.3 | -93.3 | -94.8 | -95.8 |

4. Exploded View and Parts List

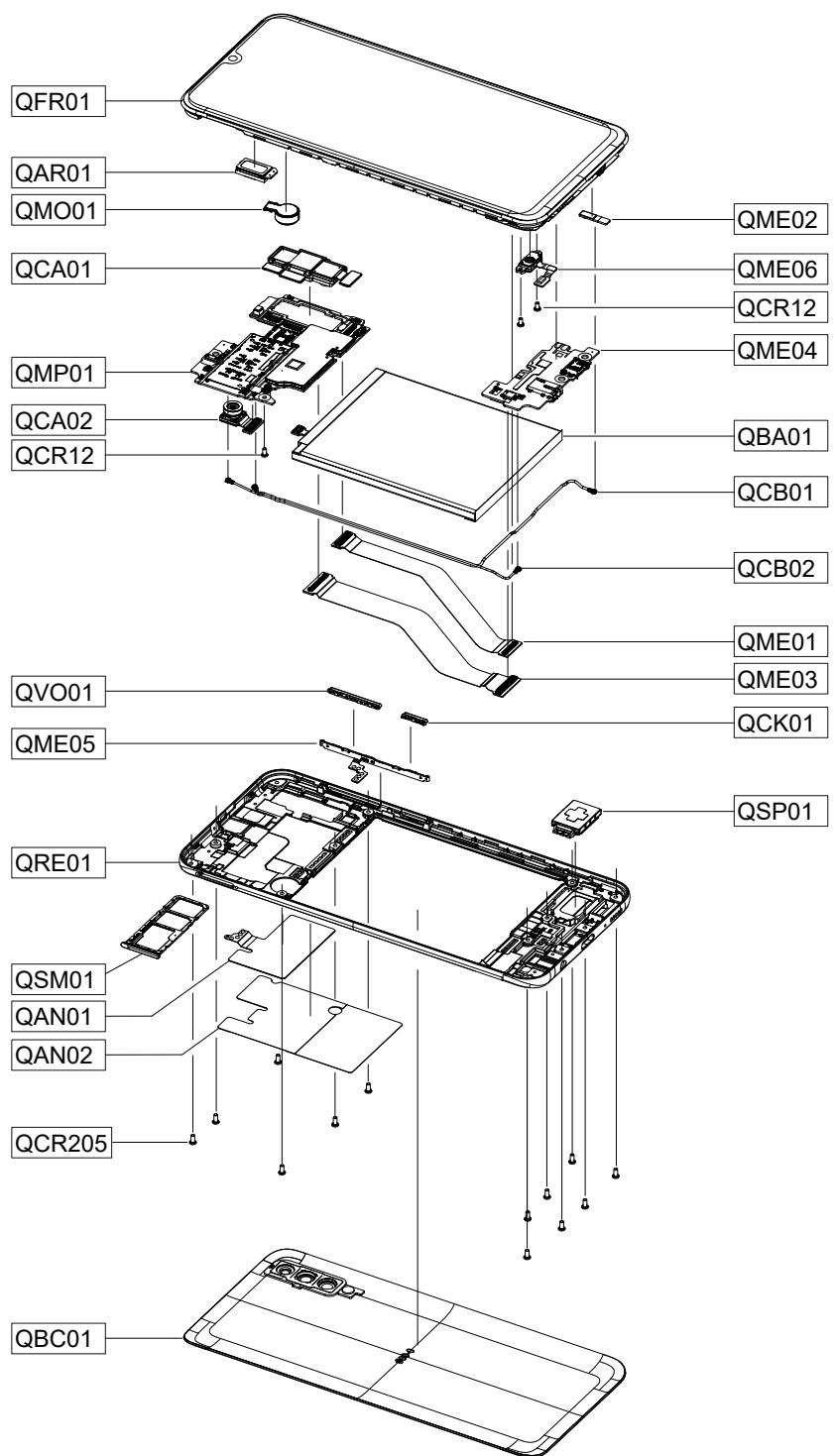
4-1-1. Cellular phone Exploded View [SM-A505F/GT]



※ SVC REPAIR TAPE
QRT01

4. Exploded View and Parts List

4-1-2. Cellular phone Exploded View [SM-A505FN]



※ SVC REPAIR TAPE
QRT01

4. Exploded View and Parts List

4-2-1. Cellular phone Parts list [SM-A505F]

| Design LOC | Description | SEC CODE |
|------------|--|-------------|
| QCR12 | SCREW-MACHINE | 6001-001530 |
| QCR205 | SCREW-MACHINE | 6001-003227 |
| QCA01 | ASSY CAMERA-1/2.78" _24M_A505F | GH96-12415A |
| QCA02 | ASSY VT CAMERA-1/2.8" _25M_A505F | GH96-12416A |
| QRE01 | MEA REAR-SM-A505F | GH97-22993A |
| QSP01 | SPEAKER | 3001-002856 |
| QVO01 | ASSY KEY-VOLUME | GH98-43923A |
| QCK01 | ASSY KEY-POWER | GH98-43924A |
| QME05 | ASSY SUB PBA-SIDE KEY (SM-A505F) | GH96-12420A |
| QAN01 | ANTENNA-NON NFC DUMMY | GH42-06315A |
| QAR01 | AUDIO-RECEIVER | 3009-001705 |
| QCR12 | SCREW-MACHINE | 6001-001530 |
| QMO01 | MOTOR DC-VIBRATION (SM-J200BT) | GH31-00744A |
| QCB01 | CBF COAXIAL CABLE-A505F,177.3MM,WHITE | GH39-01991A |
| QCB02 | CBF COAXIAL CABLE-A505F,131MM,BLUE | GH39-01992A |
| QME03 | CON TO CON FPCB-MAIN (SM-A505F) | GH59-15029A |
| QME01 | CON TO CON FPCB-OCTA (SM-A505F) | GH59-15030A |
| QME02 | ASSY SUB PBA-HB (SM-A505F) | GH96-12423A |
| QME04 | ASSY SUB PBA-SM-A505F | GH96-12426A |
| QME06 | ASSY MODULE-OPTICAL FINGER SCAN SENSOR | GH96-12434A |
| QSM01 | ASSY COVER-SIM TRAY(DS)_ZK | GH98-43922A |
| QMP01 | SVC PBA-MAIN(COMM),SM-A505F/6R6D,SVC | GH82-19205A |
| QFR01 | SVC ASSY SMT-OCTA(E/ZK),SM-A505F,INS,SVC | GH82-19204A |
| QBA01 | SVC BATTERY ASSY-EB-BA505ABN,30,INS,SVC | GH82-19203A |
| QBC01 | SVC COVER ASSY-B/G | GH82-19236A |
| QRT01 | Back Glass Rework Tape | GH81-16711A |

4. Exploded View and Parts List

4-2-2. Cellular phone Parts list [SM-A505FN]

| Design LOC | Description | SEC CODE |
|------------|---|-------------|
| QCR12 | SCREW-MACHINE | 6001-001530 |
| QCR205 | SCREW-MACHINE | 6001-003227 |
| QCA01 | ASSY CAMERA-1/2.78" _24M_A505F | GH96-12415A |
| QCA02 | ASSY VT CAMERA-1/2.8" _25M_A505F | GH96-12416A |
| QRE01 | MEA REAR-SM-A505_NFC_ZK | GH97-23109A |
| QSP01 | SPEAKER | 3001-002856 |
| QVO01 | ASSY KEY-VOLUME | GH98-43923A |
| QCK01 | ASSY KEY-POWER | GH98-43924A |
| QME05 | ASSY SUB PBA-SIDE KEY (SM-A505F) | GH96-12420A |
| QAN01 | ANTENNA COIL-NFC (SM-A505FN) | GH42-06264A |
| QAN02 | ANTENNA COIL-ONLY NFC DUMMY | GH42-06316A |
| QAR01 | AUDIO-RECEIVER | 3009-001705 |
| QCR12 | SCREW-MACHINE | 6001-001530 |
| QMO01 | MOTOR DC-VIBRATION (SM-J200BT) | GH31-00744A |
| QCB01 | CBF COAXIAL CABLE-A505F,177.3MM,WHITE | GH39-01991A |
| QCB02 | CBF COAXIAL CABLE-A505F,131MM,BLUE | GH39-01992A |
| QME03 | CON TO CON FPCB-MAIN (SM-A505F) | GH59-15029A |
| QME01 | CON TO CON FPCB-OCTA (SM-A505F) | GH59-15030A |
| QME02 | ASSY SUB PBA-HB (SM-A505F) | GH96-12423A |
| QME04 | ASSY SUB PBA-SM-A505F | GH96-12426A |
| QME06 | ASSY MODULE-OPTICAL FINGER SCAN SENSOR | GH96-12434A |
| QSM01 | ASSY COVER-SIM TRAY(DS)_ZK | GH98-43922A |
| QMP01 | SVC PBA-MAIN(COMM) | GH82-19291A |
| QFR01 | SVC ASSY SMT-OCTA(E/ZK) | GH82-19204A |
| QBA01 | SVC BATTERY ASSY-EB-BA505ABU,30,ZTO,SVC | GH82-19269A |
| QBC01 | SVC COVER ASSY-B/G;COMM1_ZK_VN_DS | GH82-19229A |
| QRT01 | A/S-TAPE BACK COVER | GH81-16711A |

4. Exploded View and Parts List

4-2-3. Cellular phone Parts list [SM-A505GT]

| Design LOC | Description | SEC CODE |
|------------|---|-------------|
| QCR12 | SCREW-MACHINE | 6001-001530 |
| QCR205 | SCREW-MACHINE | 6001-003227 |
| QCA01 | ASSY CAMERA-1/2.78" _24M_A505F | GH96-12415A |
| QCA02 | ASSY VT CAMERA-1/2.8" _25M_A505F | GH96-12416A |
| QRE01 | MEA REAR-SM-A505F | GH97-22993A |
| QSP01 | SPEAKER | 3001-002856 |
| QVO01 | ASSY KEY-VOLUME | GH98-43923A |
| QCK01 | ASSY KEY-POWER | GH98-43924A |
| QME05 | ASSY SUB PBA-SIDE KEY (SM-A505F) | GH96-12420A |
| QAN01 | ANTENNA-NON NFC DUMMY | GH42-06315A |
| QAR01 | AUDIO-RECEIVER | 3009-001705 |
| QCR12 | SCREW-MACHINE | 6001-001530 |
| QMO01 | MOTOR DC-VIBRATION (SM-J200BT) | GH31-00744A |
| QCB01 | CBF COAXIAL CABLE-A505F,177.3MM,WHITE | GH39-01991A |
| QCB02 | CBF COAXIAL CABLE-A505F,131MM,BLUE | GH39-01992A |
| QME03 | CON TO CON FPCB-MAIN (SM-A505F) | GH59-15029A |
| QME01 | CON TO CON FPCB-OCTA (SM-A505F) | GH59-15030A |
| QME02 | ASSY SUB PBA-HB (SM-A505F) | GH96-12423A |
| QME04 | ASSY SUB PBA-SM-A505GT | GH96-12460A |
| QME06 | ASSY MODULE-OPTICAL FINGER SCAN SENSOR | GH96-12434A |
| QSM01 | ASSY COVER-SIM TRAY(DS)_ZK | GH98-43922A |
| QMP01 | SVC PBA-MAIN(COMM)SM-A505GT/6DL,ZTO,SVC | GH82-19292A |
| QFR01 | SVC ASSY SMT-OCTA(E/ZK) | GH82-19204A |
| QBA01 | SVC BATTERY ASSY-EB-BA505ABU,30,ZTO,SVC | GH82-19269A |
| QBC01 | SVC COVER ASSY-B/G | GH82-19308A |
| QRT01 | A/S-TAPE BACK COVER | GH81-16711A |

5. MAIN Electrical Parts List

| Parts Code | Design LOC | Description |
|----------------------|-------------|-----------------|
| D5100 | 0401-001110 | DIODE-SWITCHING |
| D5000 | 0404-001250 | DIODE-SCHOTTKY |
| ZD5002,ZD5005,ZD6017 | 0406-001561 | DIODE-TVS |
| ZD5000 | 0406-001592 | DIODE-TVS |
| ZD3002 | 0406-001715 | DIODE-TVS |
| ZD1000,ZD5001,ZD7009 | 0406-001728 | DIODE-TVS |
| ZD6016,ZD6018,ZD6020 | 0406-001781 | DIODE-TVS |
| D6003,D6004 | 0406-001787 | DIODE-TVS |
| D6000 | 0406-001808 | DIODE-TVS |
| ZD6021,ZD6022 | 0406-001809 | DIODE-TVS |
| Q6000 | 0505-001883 | FET-SILICON |
| LED5000 | 0601-003768 | LED |
| U1009 | 1001-001844 | IC |
| U1007 | 1001-001970 | IC |
| U1005 | 1001-001974 | IC |
| U1000,U1001 | 1001-002064 | IC |
| U3004,U6003 | 1001-002065 | IC |
| U3001 | 1001-002077 | IC |
| U2006 | 1001-002078 | IC |
| U2011 | 1003-002802 | IC |
| U3005 | 1003-002805 | IC |
| U3017 | 1009-001076 | IC |
| UME5000 | 1107-002589 | IC |
| U3003 | 1201-003869 | IC |
| PAM1000 | 1201-004100 | IC |
| U1008 | 1201-004135 | IC |
| U6001 | 1201-004156 | IC |
| U1015 | 1201-004219 | IC |
| U6000 | 1202-001120 | IC |
| U3010 | 1203-008249 | IC |
| U5019 | 1203-008251 | IC |
| U7005 | 1203-008326 | IC |
| U6002 | 1203-008475 | IC |
| U2001 | 1203-008693 | IC |
| U5003 | 1203-008729 | IC |
| U3013 | 1203-008771 | IC |
| U3006 | 1203-008865 | IC |
| U3000,U7006 | 1203-008867 | IC |

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5. MAIN Electrical Parts List

| | | |
|----------------------|-------------|------------|
| U3002 | 1203-008872 | IC |
| U3011,U6020 | 1203-008925 | IC |
| U7007 | 1203-008926 | IC |
| U7002 | 1203-008989 | IC |
| U7003 | 1203-009035 | IC |
| U7000 | 1203-009221 | IC |
| U3009 | 1204-003748 | IC |
| U6012 | 1205-005750 | IC |
| U2010 | 1205-005767 | IC |
| U3016 | 1205-005791 | IC |
| U3018 | 1209-002513 | IC |
| U3008 | 1209-002628 | IC |
| U3014 | 1209-002629 | IC |
| TH1000,TH4000,TH4001 | 1404-001724 | THERMISTOR |
| TH5000 | 1404-001724 | THERMISTOR |
| V7000 | 1405-001458 | VARISTOR |
| R3000,R3007 | 2007-000141 | R-CHIP |
| R3006 | 2007-000148 | R-CHIP |
| R3001,R3031 | 2007-000982 | R-CHIP |
| R6887,R6888 | 2007-003015 | R-CHIP |
| R6016,R6017 | 2007-007142 | R-CHIP |
| C6054,C6055 | 2007-007190 | R-CHIP |
| R5002 | 2007-007193 | R-CHIP |
| R2002,R2003,R4005 | 2007-007741 | R-CHIP |
| R4013,R5017,R5028 | 2007-007741 | R-CHIP |
| R5031,R6004,R6024 | 2007-007741 | R-CHIP |
| R6025 | 2007-007741 | R-CHIP |
| ZD6019 | 2007-007798 | R-CHIP |
| R5022 | 2007-007942 | R-CHIP |
| R5053 | 2007-008043 | R-CHIP |
| R6023 | 2007-008296 | R-CHIP |
| R5003,R5004,R5008 | 2007-008486 | R-CHIP |
| L7003,R6008,R7000 | 2007-008531 | R-CHIP |
| R7001 | 2007-008531 | R-CHIP |
| R4444 | 2007-008816 | R-CHIP |
| R3005 | 2007-009111 | R-CHIP |
| R5007 | 2007-009155 | R-CHIP |
| R1009,R4017,R4034 | 2007-009157 | R-CHIP |
| R5018,R5052,R6015 | 2007-009157 | R-CHIP |

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5. MAIN Electrical Parts List

| | | |
|-------------------|-------------|-----------|
| R7004,R7007 | 2007-009157 | R-CHIP |
| R5001 | 2007-009182 | R-CHIP |
| R4049,R4060,R5013 | 2007-009212 | R-CHIP |
| R6009 | 2007-009212 | R-CHIP |
| R6001 | 2007-009314 | R-CHIP |
| R5010 | 2007-009315 | R-CHIP |
| R4036,R4037,R4040 | 2007-009352 | R-CHIP |
| R4051,R5016,R5019 | 2007-009352 | R-CHIP |
| R7002 | 2007-009352 | R-CHIP |
| R3008,R4015,R4018 | 2007-009408 | R-CHIP |
| R4019,R4022,R4023 | 2007-009408 | R-CHIP |
| R4024,R4025,R4026 | 2007-009408 | R-CHIP |
| R4029,R4030,R4031 | 2007-009408 | R-CHIP |
| R4032,R4033,R4038 | 2007-009408 | R-CHIP |
| R4039,R4043,R4046 | 2007-009408 | R-CHIP |
| R4048,R4052,R4053 | 2007-009408 | R-CHIP |
| R4054,R4055,R4056 | 2007-009408 | R-CHIP |
| R4057,R4058,R4059 | 2007-009408 | R-CHIP |
| R4790,R4791,R4792 | 2007-009408 | R-CHIP |
| R4793 | 2007-009408 | R-CHIP |
| R6013,R6036 | 2007-009410 | R-CHIP |
| R6000 | 2007-009766 | R-CHIP |
| R1000,R1002,R1003 | 2007-009805 | R-CHIP |
| R1004,R1005,R2000 | 2007-009805 | R-CHIP |
| R6222 | 2007-009807 | R-CHIP |
| R6012 | 2007-009838 | R-CHIP |
| R5005 | 2007-009866 | R-CHIP |
| R4020,R4021,R4027 | 2007-009920 | R-CHIP |
| R4028 | 2007-009920 | R-CHIP |
| R6011 | 2007-009969 | R-CHIP |
| R6021 | 2007-010031 | R-CHIP |
| R5000,R5355 | 2007-010202 | R-CHIP |
| R6022 | 2007-010685 | R-CHIP |
| R4000 | 2007-011043 | R-CHIP |
| R6019,R6035 | 2007-011648 | R-CHIP |
| R5026,R6020 | 2007-012202 | R-CHIP |
| C3027,C3099 | 2203-000311 | C-CERAMIC |
| C3068 | 2203-000438 | C-CERAMIC |
| C3097 | 2203-001153 | C-CERAMIC |

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5. MAIN Electrical Parts List

| | | |
|-------------------|-------------|-----------|
| C3083,C3100 | 2203-002443 | C-CERAMIC |
| C5082 | 2203-005344 | C-CERAMIC |
| C5087,C5099,C5113 | 2203-005682 | C-CERAMIC |
| C7003,C7013 | 2203-005682 | C-CERAMIC |
| C3019,C3020,C3037 | 2203-005725 | C-CERAMIC |
| C3038,C7004,C7006 | 2203-005725 | C-CERAMIC |
| L1041 | 2203-005725 | C-CERAMIC |
| C5064,C6000,C6005 | 2203-005729 | C-CERAMIC |
| C6014,C6022,C6030 | 2203-005729 | C-CERAMIC |
| C7007 | 2203-005729 | C-CERAMIC |
| C1003,C2040,C3025 | 2203-005731 | C-CERAMIC |
| C6020,C6059 | 2203-005731 | C-CERAMIC |
| C5077,C6013,C6021 | 2203-005732 | C-CERAMIC |
| C6037 | 2203-005732 | C-CERAMIC |
| C1007,C1081,C3054 | 2203-005734 | C-CERAMIC |
| C1010,C1022,C1023 | 2203-005736 | C-CERAMIC |
| C1027,C1029,C1033 | 2203-005736 | C-CERAMIC |
| C1040,C1048,C1051 | 2203-005736 | C-CERAMIC |
| C1057,C1069,C1074 | 2203-005736 | C-CERAMIC |
| C1901,C1902,C2000 | 2203-005736 | C-CERAMIC |
| C2005,C2012,C2018 | 2203-005736 | C-CERAMIC |
| C2026,C2500,C2702 | 2203-005736 | C-CERAMIC |
| C3005,C3032,C3036 | 2203-005736 | C-CERAMIC |
| C3041,C3049,C6026 | 2203-005736 | C-CERAMIC |
| C1055,C1064,C1076 | 2203-005777 | C-CERAMIC |
| C1085,C1908,C2006 | 2203-005777 | C-CERAMIC |
| C2007 | 2203-005777 | C-CERAMIC |
| C1047,C1049,C1065 | 2203-005789 | C-CERAMIC |
| C1911,C2008,C2505 | 2203-005789 | C-CERAMIC |
| C1043,C1101,C1102 | 2203-005792 | C-CERAMIC |
| C1013,C1096,C2002 | 2203-005806 | C-CERAMIC |
| L1008 | 2203-006123 | C-CERAMIC |
| C6008 | 2203-006194 | C-CERAMIC |
| C1038,C1098 | 2203-006305 | C-CERAMIC |
| C1004,C1056,C1106 | 2203-006318 | C-CERAMIC |
| C2506 | 2203-006318 | C-CERAMIC |
| C2004,C3013,C3014 | 2203-006400 | C-CERAMIC |
| C3021,C3033,C3073 | 2203-006400 | C-CERAMIC |
| C3078,C4013,C4014 | 2203-006400 | C-CERAMIC |

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5. MAIN Electrical Parts List

| | | |
|-------------------|-------------|-----------|
| C4026,C4028,C5089 | 2203-006400 | C-CERAMIC |
| C5139,C5140,C6003 | 2203-006400 | C-CERAMIC |
| C3023 | 2203-006410 | C-CERAMIC |
| C2069,C3029,C3030 | 2203-006423 | C-CERAMIC |
| C3071,C5810,C6016 | 2203-006423 | C-CERAMIC |
| C6033,C6036,C6051 | 2203-006423 | C-CERAMIC |
| C6089,C6091,C7040 | 2203-006423 | C-CERAMIC |
| L6010 | 2203-006423 | C-CERAMIC |
| C6050 | 2203-006462 | C-CERAMIC |
| C1006,C1031,C1054 | 2203-006556 | C-CERAMIC |
| C1122,C5105 | 2203-006556 | C-CERAMIC |
| C3053 | 2203-006604 | C-CERAMIC |
| C1035 | 2203-006611 | C-CERAMIC |
| C4003 | 2203-006668 | C-CERAMIC |
| C1920,C2046,L1057 | 2203-006674 | C-CERAMIC |
| C1014,C1059,C1061 | 2203-006839 | C-CERAMIC |
| C1062,C1067,C1116 | 2203-006839 | C-CERAMIC |
| C1119,C2003,C3022 | 2203-006839 | C-CERAMIC |
| C4007,C4012,C4041 | 2203-006839 | C-CERAMIC |
| C5081,C5084,C5088 | 2203-006839 | C-CERAMIC |
| C6045 | 2203-006839 | C-CERAMIC |
| C1072 | 2203-006846 | C-CERAMIC |
| C5006,C5013,C5026 | 2203-006872 | C-CERAMIC |
| C5027,C5028,C5032 | 2203-006872 | C-CERAMIC |
| C5044,C5051,C5062 | 2203-006872 | C-CERAMIC |
| C5095 | 2203-006872 | C-CERAMIC |
| C1046,C2010,C2053 | 2203-006979 | C-CERAMIC |
| C2056,C2062,C2063 | 2203-006979 | C-CERAMIC |
| C2067,C2076,C2077 | 2203-006979 | C-CERAMIC |
| C2079,C2091 | 2203-006979 | C-CERAMIC |
| C3050,C3058,C7012 | 2203-007194 | C-CERAMIC |
| L1043 | 2203-007194 | C-CERAMIC |
| C4148 | 2203-007210 | C-CERAMIC |
| C5045 | 2203-007271 | C-CERAMIC |
| C3069,C3076 | 2203-007295 | C-CERAMIC |
| C3087,C5008,C5041 | 2203-007317 | C-CERAMIC |
| C5073,C5074,C5100 | 2203-007317 | C-CERAMIC |
| C7000,C7011,C7018 | 2203-007317 | C-CERAMIC |
| C7027,C7028,C7031 | 2203-007317 | C-CERAMIC |

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5. MAIN Electrical Parts List

| | | |
|-------------------|-------------|-----------|
| C7032,C7033,C7034 | 2203-007317 | C-CERAMIC |
| C7035 | 2203-007317 | C-CERAMIC |
| C2065 | 2203-007391 | C-CERAMIC |
| C2092 | 2203-007392 | C-CERAMIC |
| C1041,C1044,C2028 | 2203-007393 | C-CERAMIC |
| C3080,C3081,C4033 | 2203-007393 | C-CERAMIC |
| C4058,C4071,C4080 | 2203-007393 | C-CERAMIC |
| C4092,C4105,C5079 | 2203-007393 | C-CERAMIC |
| C5091,C5098,C5145 | 2203-007393 | C-CERAMIC |
| C6025,C6032,C6039 | 2203-007393 | C-CERAMIC |
| C6082,C6083,C6084 | 2203-007393 | C-CERAMIC |
| C6085,C6086,C6087 | 2203-007393 | C-CERAMIC |
| C6092,C7023 | 2203-007393 | C-CERAMIC |
| C5068 | 2203-007425 | C-CERAMIC |
| C6047 | 2203-007456 | C-CERAMIC |
| C2055,C2064,C2066 | 2203-007474 | C-CERAMIC |
| C2080 | 2203-007474 | C-CERAMIC |
| C2027,C2054,C2061 | 2203-007796 | C-CERAMIC |
| C2075,C2078,C3003 | 2203-007796 | C-CERAMIC |
| C3008,C3010,C3011 | 2203-007796 | C-CERAMIC |
| C3012,C3017,C3026 | 2203-007796 | C-CERAMIC |
| C3031,C3034,C3074 | 2203-007796 | C-CERAMIC |
| C3077,C3082,C3089 | 2203-007796 | C-CERAMIC |
| C3091,C3092,C3093 | 2203-007796 | C-CERAMIC |
| C3094,C4001,C4002 | 2203-007796 | C-CERAMIC |
| C4004,C4005,C4006 | 2203-007796 | C-CERAMIC |
| C4008,C4011,C4015 | 2203-007796 | C-CERAMIC |
| C4016,C4018,C4019 | 2203-007796 | C-CERAMIC |
| C4020,C4021,C4022 | 2203-007796 | C-CERAMIC |
| C4023,C4024,C4025 | 2203-007796 | C-CERAMIC |
| C4027,C4029,C4030 | 2203-007796 | C-CERAMIC |
| C4031,C4032,C4035 | 2203-007796 | C-CERAMIC |
| C4042,C4043,C4054 | 2203-007796 | C-CERAMIC |
| C4055,C4056,C4057 | 2203-007796 | C-CERAMIC |
| C4059,C4066,C4067 | 2203-007796 | C-CERAMIC |
| C4068,C4070,C4073 | 2203-007796 | C-CERAMIC |
| C4074,C4075,C4076 | 2203-007796 | C-CERAMIC |
| C4078,C4079,C4084 | 2203-007796 | C-CERAMIC |
| C4085,C4086,C4087 | 2203-007796 | C-CERAMIC |

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5. MAIN Electrical Parts List

| | | |
|-------------------|-------------|-----------|
| C4088,C4090,C4091 | 2203-007796 | C-CERAMIC |
| C4094,C4095,C4096 | 2203-007796 | C-CERAMIC |
| C4104,C4107,C4109 | 2203-007796 | C-CERAMIC |
| C4115,C4116,C4117 | 2203-007796 | C-CERAMIC |
| C4119,C4120,C4121 | 2203-007796 | C-CERAMIC |
| C4127,C4128,C4130 | 2203-007796 | C-CERAMIC |
| C4132,C4133,C4138 | 2203-007796 | C-CERAMIC |
| C4140,C4141,C4142 | 2203-007796 | C-CERAMIC |
| C4143,C5007,C5011 | 2203-007796 | C-CERAMIC |
| C5014,C5015,C5018 | 2203-007796 | C-CERAMIC |
| C5019,C5022,C5025 | 2203-007796 | C-CERAMIC |
| C5031,C5038,C5039 | 2203-007796 | C-CERAMIC |
| C5046,C5048,C5050 | 2203-007796 | C-CERAMIC |
| C5078,C5102,C5109 | 2203-007796 | C-CERAMIC |
| C5110,C5112,C5116 | 2203-007796 | C-CERAMIC |
| C6002,C6019,C6040 | 2203-007796 | C-CERAMIC |
| C6041,C6042,C6043 | 2203-007796 | C-CERAMIC |
| C7001,C7010,C7020 | 2203-007796 | C-CERAMIC |
| C7022,C7026,C7041 | 2203-007796 | C-CERAMIC |
| C7042,C7048,C7049 | 2203-007796 | C-CERAMIC |
| C7050,C7076,C7077 | 2203-007796 | C-CERAMIC |
| C7082,C7287,C7293 | 2203-007796 | C-CERAMIC |
| C3065,C5069,C5075 | 2203-008097 | C-CERAMIC |
| C6006 | 2203-008097 | C-CERAMIC |
| C2095,C3000,C3001 | 2203-008242 | C-CERAMIC |
| C3002,C3006,C3007 | 2203-008242 | C-CERAMIC |
| C3009,C3061,C3064 | 2203-008242 | C-CERAMIC |
| C4000,C4052,C4053 | 2203-008242 | C-CERAMIC |
| C4103,C4106,C5029 | 2203-008242 | C-CERAMIC |
| C6018 | 2203-008242 | C-CERAMIC |
| C3057,C6053,C6056 | 2203-008243 | C-CERAMIC |
| C6057 | 2203-008243 | C-CERAMIC |
| C4114,C5001,C5003 | 2203-008312 | C-CERAMIC |
| C5004,C5053,C5055 | 2203-008312 | C-CERAMIC |
| C5058,C5059,C5063 | 2203-008312 | C-CERAMIC |
| C5066,C5071,C5101 | 2203-008312 | C-CERAMIC |
| C3024 | 2203-008394 | C-CERAMIC |
| C3101 | 2203-008529 | C-CERAMIC |
| C5061 | 2203-008572 | C-CERAMIC |

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| | | |
|-------------------|-------------|-----------|
| C6027 | 2203-008654 | C-CERAMIC |
| C1091,C1097,C2093 | 2203-008860 | C-CERAMIC |
| C3004,C3035,C3062 | 2203-008860 | C-CERAMIC |
| C3063,C3079,C3086 | 2203-008860 | C-CERAMIC |
| C3088,C3090,C5040 | 2203-008860 | C-CERAMIC |
| C5056,C5060,C5090 | 2203-008860 | C-CERAMIC |
| C5111,C6004,C6024 | 2203-008860 | C-CERAMIC |
| C6035,C6081,C7039 | 2203-008860 | C-CERAMIC |
| C7052,C7053,C7054 | 2203-008860 | C-CERAMIC |
| C7078,C7079,C7080 | 2203-008860 | C-CERAMIC |
| C1060,C1090,C5023 | 2203-008876 | C-CERAMIC |
| C5024,C5030,C5047 | 2203-008876 | C-CERAMIC |
| C5067,C5097,C5130 | 2203-008876 | C-CERAMIC |
| C5811,C6009,C6052 | 2203-008876 | C-CERAMIC |
| C7081 | 2203-008876 | C-CERAMIC |
| C4034,C4036,C4039 | 2203-009064 | C-CERAMIC |
| C3028,C3098 | 2203-009167 | C-CERAMIC |
| C5009 | 2203-009537 | C-CERAMIC |
| C6007,C7056 | 2203-009618 | C-CERAMIC |
| C2022,C4051,C4065 | 2203-009733 | C-CERAMIC |
| C4072,C4093,C4112 | 2203-009733 | C-CERAMIC |
| C4113,C4122,C5000 | 2203-009733 | C-CERAMIC |
| C5002,C5005,C5049 | 2203-009733 | C-CERAMIC |
| C5052,C5054,C5057 | 2203-009733 | C-CERAMIC |
| C5065,C5070,C5072 | 2203-009733 | C-CERAMIC |
| C5076,C5080,C5083 | 2203-009733 | C-CERAMIC |
| C5085,C5086,C5092 | 2203-009733 | C-CERAMIC |
| C5093,C5094,C5129 | 2203-009733 | C-CERAMIC |
| C5141,C5144,C6001 | 2203-009733 | C-CERAMIC |
| C6015,C6023,C6046 | 2203-009733 | C-CERAMIC |
| C6088,C6090,C7002 | 2203-009733 | C-CERAMIC |
| C7008,C7021,C7043 | 2203-009733 | C-CERAMIC |
| C7044,C7057,C7058 | 2203-009733 | C-CERAMIC |
| C7059,C7060,C7061 | 2203-009733 | C-CERAMIC |
| C7063,C7066,C7067 | 2203-009733 | C-CERAMIC |
| C7068,C7072,C7073 | 2203-009733 | C-CERAMIC |
| C7074,C7286 | 2203-009733 | C-CERAMIC |
| C4037,C4038 | 2203-009735 | C-CERAMIC |
| C3015,C5036,C5037 | 2203-009736 | C-CERAMIC |

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5. MAIN Electrical Parts List

| | | |
|-------------------|-------------|--------------|
| C5042,C5043,C5096 | 2203-009736 | C-CERAMIC |
| R6005 | 2203-009969 | C-CERAMIC |
| C5142,C5143 | 2203-009987 | C-CERAMIC |
| C3039 | 2203-010085 | C-CERAMIC |
| TA3000 | 2409-001400 | CAPACITOR |
| L5901,L5999 | 2703-002309 | INDUCTOR-SMD |
| L1001,L1010,L1018 | 2703-002649 | INDUCTOR-SMD |
| L1019,L1025,L1059 | 2703-002649 | INDUCTOR-SMD |
| L1072,L1094 | 2703-002900 | INDUCTOR-SMD |
| C1039 | 2703-002901 | INDUCTOR-SMD |
| L1017 | 2703-002903 | INDUCTOR-SMD |
| L1024,L3016 | 2703-002907 | INDUCTOR-SMD |
| L2025,L2802 | 2703-002953 | INDUCTOR-SMD |
| L1066,L1077 | 2703-002955 | INDUCTOR-SMD |
| C1087,C3056,L1079 | 2703-002959 | INDUCTOR-SMD |
| L2009 | 2703-002959 | INDUCTOR-SMD |
| L1007,L1045,L1097 | 2703-002999 | INDUCTOR-SMD |
| L3006 | 2703-003476 | INDUCTOR-SMD |
| L1054,L3017 | 2703-003970 | INDUCTOR-SMD |
| L1003,L1014,L1040 | 2703-004012 | INDUCTOR-SMD |
| L1046,L1071,L1082 | 2703-004012 | INDUCTOR-SMD |
| L1083,L1930 | 2703-004012 | INDUCTOR-SMD |
| L1004,L1015,L1021 | 2703-004013 | INDUCTOR-SMD |
| L1047,L1048,L1052 | 2703-004013 | INDUCTOR-SMD |
| L1090,L3015 | 2703-004013 | INDUCTOR-SMD |
| C1000,L1013,L1044 | 2703-004014 | INDUCTOR-SMD |
| L1049,L1062,L2006 | 2703-004014 | INDUCTOR-SMD |
| L3008 | 2703-004014 | INDUCTOR-SMD |
| L1030,L1034,L1038 | 2703-004018 | INDUCTOR-SMD |
| L1055,L1073,L1074 | 2703-004018 | INDUCTOR-SMD |
| L3004,L3005 | 2703-004018 | INDUCTOR-SMD |
| L1050 | 2703-004032 | INDUCTOR-SMD |
| L1058,L1064 | 2703-004033 | INDUCTOR-SMD |
| C1900,L1006,L1029 | 2703-004034 | INDUCTOR-SMD |
| L1036,L1039,L2003 | 2703-004034 | INDUCTOR-SMD |
| L1031,L1051,L1070 | 2703-004035 | INDUCTOR-SMD |
| L2002,L2500,L2502 | 2703-004035 | INDUCTOR-SMD |
| C1094 | 2703-004036 | INDUCTOR-SMD |
| L2004,L2017,L2501 | 2703-004037 | INDUCTOR-SMD |

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5. MAIN Electrical Parts List

| | | |
|-------------------|-------------|--------------|
| L1080,L1087,L1096 | 2703-004038 | INDUCTOR-SMD |
| L1906,L2005,L2600 | 2703-004038 | INDUCTOR-SMD |
| L3009,L3014 | 2703-004038 | INDUCTOR-SMD |
| L1022,L1900 | 2703-004171 | INDUCTOR-SMD |
| C1103,L1012,L1053 | 2703-004286 | INDUCTOR-SMD |
| L1056,L1063,L1086 | 2703-004286 | INDUCTOR-SMD |
| L1092,L3002 | 2703-004286 | INDUCTOR-SMD |
| L3013 | 2703-004288 | INDUCTOR-SMD |
| L1020,L1023 | 2703-004317 | INDUCTOR-SMD |
| L1002,L1032,L1088 | 2703-004328 | INDUCTOR-SMD |
| L1931,L2001,L2008 | 2703-004328 | INDUCTOR-SMD |
| L2800 | 2703-004328 | INDUCTOR-SMD |
| L2019 | 2703-004363 | INDUCTOR-SMD |
| L1016,L1901 | 2703-004408 | INDUCTOR-SMD |
| L3022 | 2703-004703 | INDUCTOR-SMD |
| L1009 | 2703-004763 | INDUCTOR-SMD |
| L2700,L2701 | 2703-004764 | INDUCTOR-SMD |
| L3026 | 2703-004911 | INDUCTOR-SMD |
| L2020 | 2703-004947 | INDUCTOR-SMD |
| C1107,L1042 | 2703-004976 | INDUCTOR-SMD |
| L5000,L5008,L5009 | 2703-005067 | INDUCTOR-SMD |
| L5010,L5011 | 2703-005067 | INDUCTOR-SMD |
| C3016,L1028,L1037 | 2703-005085 | INDUCTOR-SMD |
| L1065,L1089,L1093 | 2703-005085 | INDUCTOR-SMD |
| L3003 | 2703-005085 | INDUCTOR-SMD |
| C1108,L1027,L1033 | 2703-005087 | INDUCTOR-SMD |
| L1095 | 2703-005087 | INDUCTOR-SMD |
| L1011,L1035 | 2703-005088 | INDUCTOR-SMD |
| L1075,L1078 | 2703-005089 | INDUCTOR-SMD |
| L5012 | 2703-005136 | INDUCTOR-SMD |
| L5001,L5004,L5005 | 2703-005201 | INDUCTOR-SMD |
| L5006 | 2703-005201 | INDUCTOR-SMD |
| L7010 | 2703-005224 | INDUCTOR-SMD |
| L5020 | 2703-005225 | INDUCTOR-SMD |
| L5002 | 2703-005226 | INDUCTOR-SMD |
| L1069 | 2703-005295 | INDUCTOR-SMD |
| L1061 | 2703-005296 | INDUCTOR-SMD |
| L7007 | 2703-005418 | INDUCTOR-SMD |
| L7008 | 2703-005419 | INDUCTOR-SMD |

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5. MAIN Electrical Parts List

| | | |
|-------------------|-------------|-------------------|
| L6001 | 2703-005505 | INDUCTOR-SMD |
| L5003 | 2703-005509 | INDUCTOR-SMD |
| L3000,L3001 | 2703-005555 | INDUCTOR-SMD |
| L1081 | 2703-005718 | INDUCTOR-SMD |
| OSC5000 | 2801-005393 | CRYSTAL-UNIT |
| OSC3000 | 2801-005476 | CRYSTAL-UNIT |
| OSC2000 | 2805-001113 | OSCILLATOR |
| F1009 | 2904-002143 | FILTER-SAW |
| F2002 | 2904-002198 | FILTER-SAW |
| F1004 | 2904-002210 | FILTER-SAW |
| F1007 | 2904-002285 | FILTER-SAW |
| F2003 | 2904-002326 | FILTER-SAW |
| F3002,F3003 | 2904-002356 | FILTER-SAW |
| F2001 | 2904-002368 | FILTER-SAW |
| F3000 | 2904-002381 | FILTER-SAW |
| F1005,F2000 | 2904-002397 | FILTER-SAW |
| F1006 | 2910-000364 | FILTER |
| F1008 | 2910-000401 | FILTER |
| F1011 | 2910-000402 | FILTER |
| F1010 | 2910-000404 | FILTER |
| U2000 | 2911-000430 | FILTER |
| U1003 | 2911-000448 | FILTER |
| MIC6000 | 3003-001237 | MIC-CONDENSOR |
| L3011 | 3301-001534 | CORE-FERRITE BEAD |
| L3012,L3019 | 3301-002078 | CORE-FERRITE BEAD |
| L2014,L2015 | 3301-002122 | CORE-FERRITE BEAD |
| L7000,L7001,L7002 | 3301-002223 | CORE-FERRITE BEAD |
| L7004,L7005 | 3301-002223 | CORE-FERRITE BEAD |
| L6002 | 3301-002228 | CORE-FERRITE BEAD |
| L6004,L6006,L6007 | 3301-002235 | CORE-FERRITE BEAD |
| L6008,L6009,L6011 | 3301-002235 | CORE-FERRITE BEAD |
| L6014,L6015,L6016 | 3301-002235 | CORE-FERRITE BEAD |
| L6017 | 3301-002235 | CORE-FERRITE BEAD |
| L1000,L2000,L2049 | 3301-002237 | CORE-FERRITE BEAD |
| L2016,L2032,L2034 | 3301-002238 | CORE-FERRITE BEAD |
| L2036,L6000,L6003 | 3301-002238 | CORE-FERRITE BEAD |
| L2048 | 3301-002242 | CORE-FERRITE BEAD |
| L3021 | 3301-002248 | CORE-FERRITE BEAD |
| L2012,L2031,L2035 | 3301-002312 | CORE-FERRITE BEAD |

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5. MAIN Electrical Parts List

| | | |
|-------------------|-----------------|---------------------|
| L7006,L7009,L7011 | 3301-002312 | CORE-FERRITE BEAD |
| L5007 | 3301-002331 | CORE-FERRITE BEAD |
| RFS1000,RFS1001 | 3705-001937 | CONNECTOR-COAXIAL |
| SIM4UP | 3709-001932 | CONNECTOR-CARD EDGE |
| SIM1 | 3709-001933 | CONNECTOR-CARD EDGE |
| SIM2,SIM3 | 3709-001934 | CONNECTOR-CARD EDGE |
| HDC7002 | 3711-007107 | CONNECTOR-HEADER |
| HDC7001 | 3711-008508 | CONNECTOR-HEADER |
| HDC7003 | 3711-008511 | CONNECTOR-HEADER |
| HDC5000 | 3711-008847 | CONNECTOR-HEADER |
| HDC7000 | 3711-008931 | CONNECTOR-HEADER |
| HDC7004 | 3711-009356 | CONNECTOR-HEADER |
| HEA6000 | 3711-009408 | CONNECTOR-HEADER |
| ANT3002,ANT3003 | 3712-001604 | CONNECTOR |
| ANT3004,ANT3005 | 3712-001604 | CONNECTOR |
| ANT2003,ANT2004 | 3712-001621 | CONNECTOR |
| ANT2005,ANT2006 | 3712-001621 | CONNECTOR |
| ANT2100,ANT2222 | 3712-001621 | CONNECTOR |
| ANT5104,ANT5105 | 3712-001633 | CONNECTOR |
| ANT9003,ANT9005 | 3712-001666 | CONNECTOR |
| ANT5000,ANT5001 | 3712-001694 | CONNECTOR |
| ANT5002,ANT5003 | 3712-001694 | CONNECTOR |
| ANT5004 | 3712-001694 | CONNECTOR |
| ANT2000,ANT2001 | 3712-001714 | CONNECTOR |
| ANT2002,ANT3000 | 3712-001714 | CONNECTOR |
| ANT3001 | 3712-001714 | CONNECTOR |
| F1000 | 4709-002196 | RF-MODULE |
| F3001 | 4709-002284 | RF-MODULE |
| F1002 | 4709-002387 | RF-MODULE |
| F2004 | 4709-002484 | RF-MODULE |
| F1001,F1003 | 4709-002589 | RF-MODULE |
| CON1000 | GH61-08634A | CONNECTOR |
| GA7000 | GH62-00042A | PAD GAP-SMD |
| SC6000 | GH63-16268A | IC-TCXO |
| UCP400 | rf-EXYNOS9610 | EXYNOS9610 |
| U3012 | rf-ICM-42605-M | IC-SENSOR |
| U5000 | rf-S2MPU09X01-6 | IC-POWER |
| U3015 | rf-S5N5C20X00-6 | IC-WIFI |
| SC6001 | rf-SC-A50EUR-AP | IC-AP |

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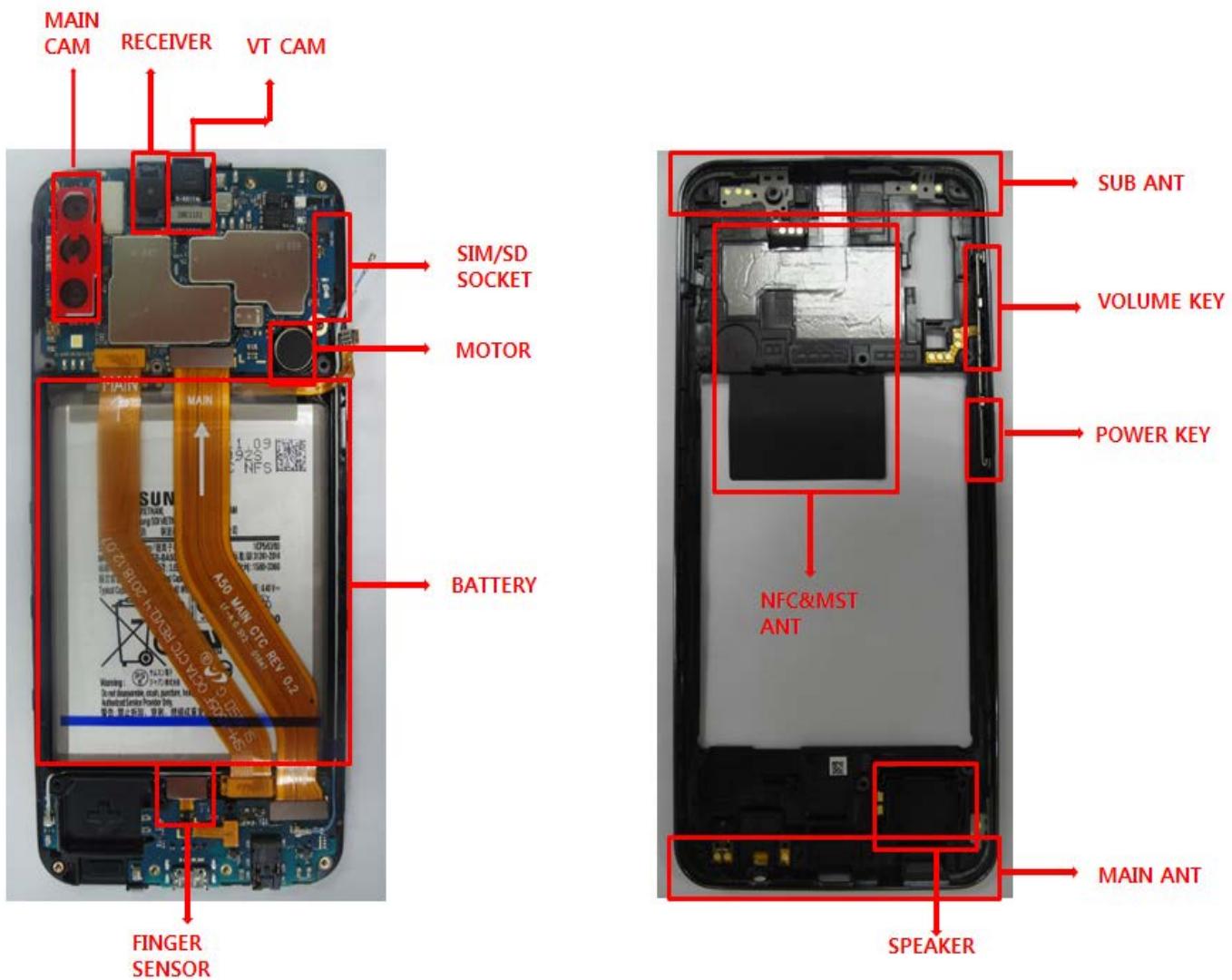
5. MAIN Electrical Parts List

| | | |
|----------|-----------------|---------------|
| SC6005 | rf-SC-A50EUR-AP | IC-APT |
| SC6004 | rf-SC-A50EUR-BT | WIFI |
| SC6002 | rf-SC-A50EUR-PM | IC-PMIC |
| SC6003 | rf-SC-A50EUR-RF | RF |
| U5001 | rf-SM5713 | IC-POWER |
| UCP400UP | rf-K4UJE3T4AM-C | IC-DDR4 SDRAM |
| SC6001SP | rf-TAPE | TAPE |

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

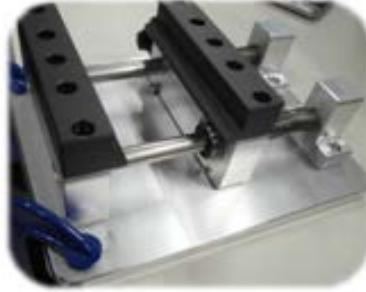
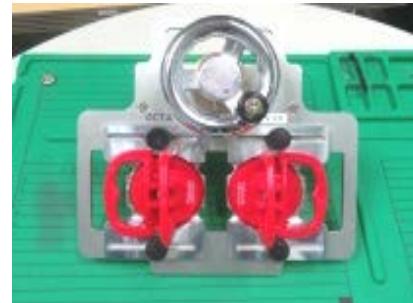
7. Level 2 Repair

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

N/A

7. Level 2 Repair

7-4. Disassembly

1

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

- 2)Detach the Backglass using disassembly jig.
※ Below picture shows how to detach Back Glass using service jig, however you can use manufactual jig if possible.



2

- Disassemble SIM Tray from device.
Unscrew 13Points.



※ Caution

Be careful not to damage set and OCTA.

3

- Disassemble the REAR from Front Assy.

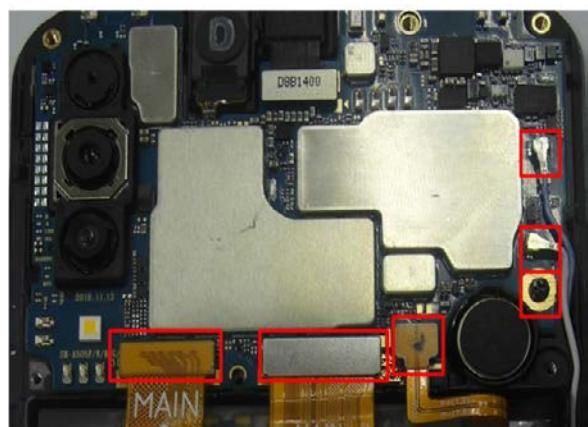


※ Caution

Be care of scratch and molding damage.

4

1. Disassemble Connector 3ea from PBA.
2. Unscrew 1 Points from PBA.
3. Disassemble Coaxial Cable 2ea from PBA.



※ Caution

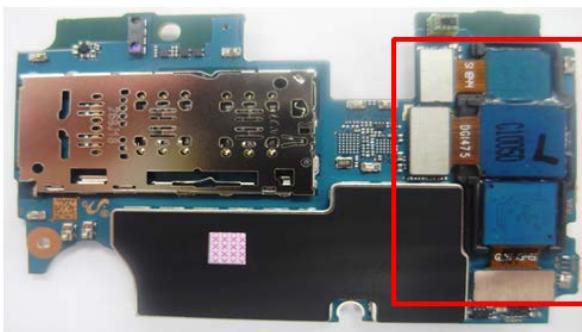
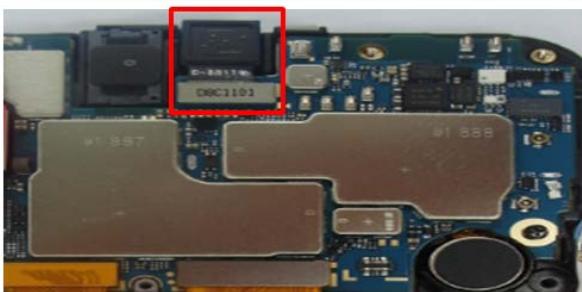
Be care of damage to components.

※ Caution

Be careful not to damage the PBA.

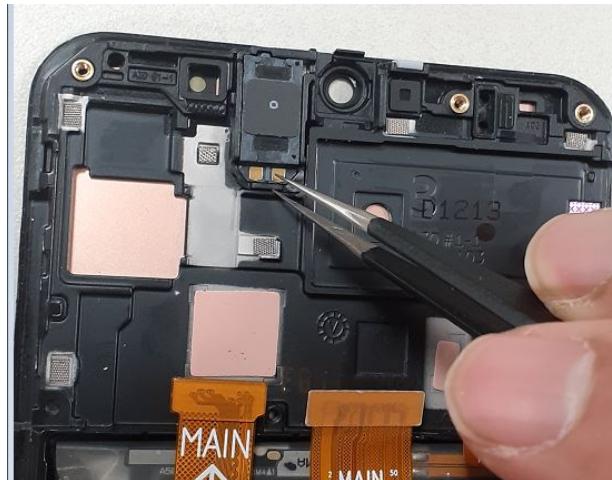
7. Level 2 Repair

5 Disassemble PBA Assy from Front Assy.
Disassemble Front /Rear Camera from PBA.



※ Caution
1) Be careful not to damage the PBA.

6 Detach RCV from Front Ass'y.



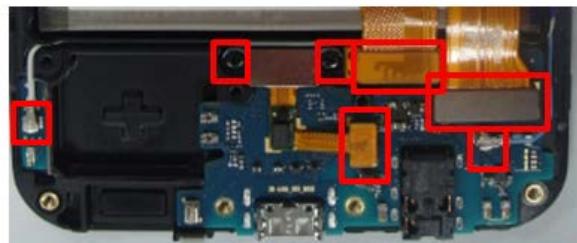
7 Detach Motor from Front Ass'y.



※ Caution
Be careful not to damage the Motor.

※ Caution
Be careful not to damage the RCV.

8 Remove FPCB 2ea and Fingersensor fix screw 2ea+Fingersensor FPCB and RF Cable 2ea.



※ Caution
Be careful not to damage the Sub PBA and connector

7. Level 2 Repair

9

Detach Finger sensor.



10

Detach HB PBA and the Sub PBA.



※ Caution

Be careful not to damage fingersensor and the Sub PBA

11

Detach SPK from Rear Ass'y.



※ Caution

Be careful not to damage the SPK

7. Level 2 Repair

7-5. Assembly

1

Attach SPK on Rear Ass'y.



2

Attach Sub PBA and HB PBA on Front Ass'y.



※ Caution

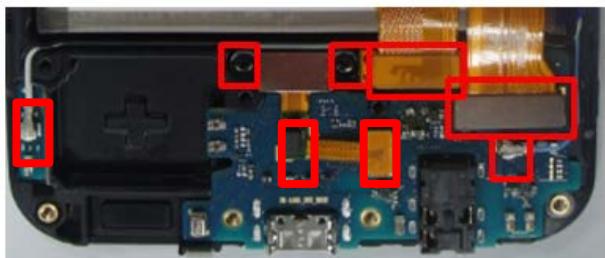
Be care of SPK damage.

3

Attach RF Cable 2ea and FPCB 2ea, fingersensor Screw 2ea & FPCB.

Screw insertion 2 Point.

* Torque Value : 0.95

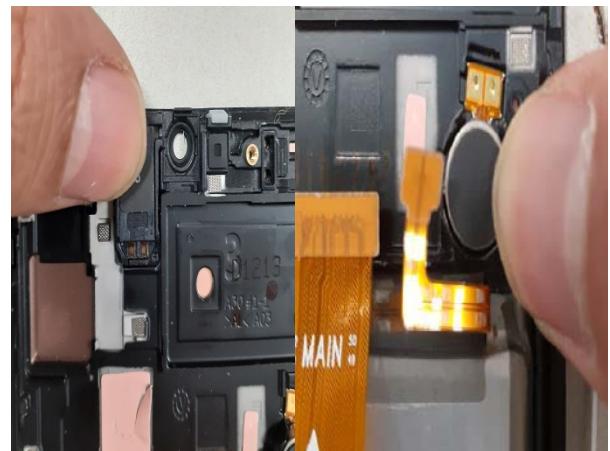


※ Caution

Be care of Sub PBA damage.

4

Attach Motor and Receiver in upper area.



※ Caution

Please keep the guide line for C to C FPCB and BLACK, WHITE COAXIAL CABLE.

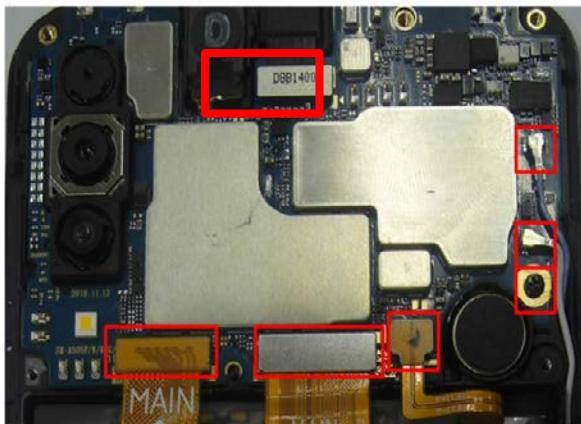
※ Caution

- 1) Be care of scratch CAM lens
- 2) Be care of damage each part.

7. Level 2 Repair

5

Assemble the PBA and C to C FPCB 2ea and Batt Conn and BLUE , WHITE COAXIAL CABLE. and VT Camera,



6

Screw insertion 1 Point.
* Torque Value : 0.95 ±7%



※ Caution

Check for each connector connection

※ Caution

Be care of PBA damage.

7

Assemble Rear and screw insertion 13 point
* Torque Value : 1.25 ±10%



8

Assemble cover rear and insert SIM/SD Tray



※ Caution

Be care of PBA damage.

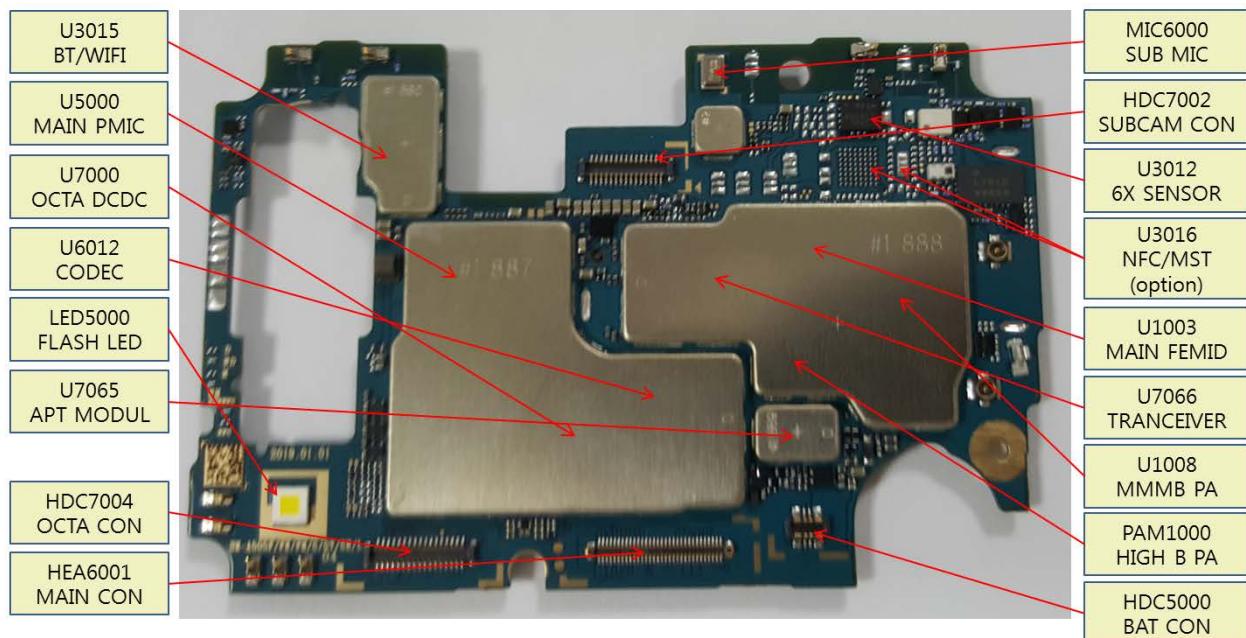
※ Caution

Be care of scratch Rear cover.

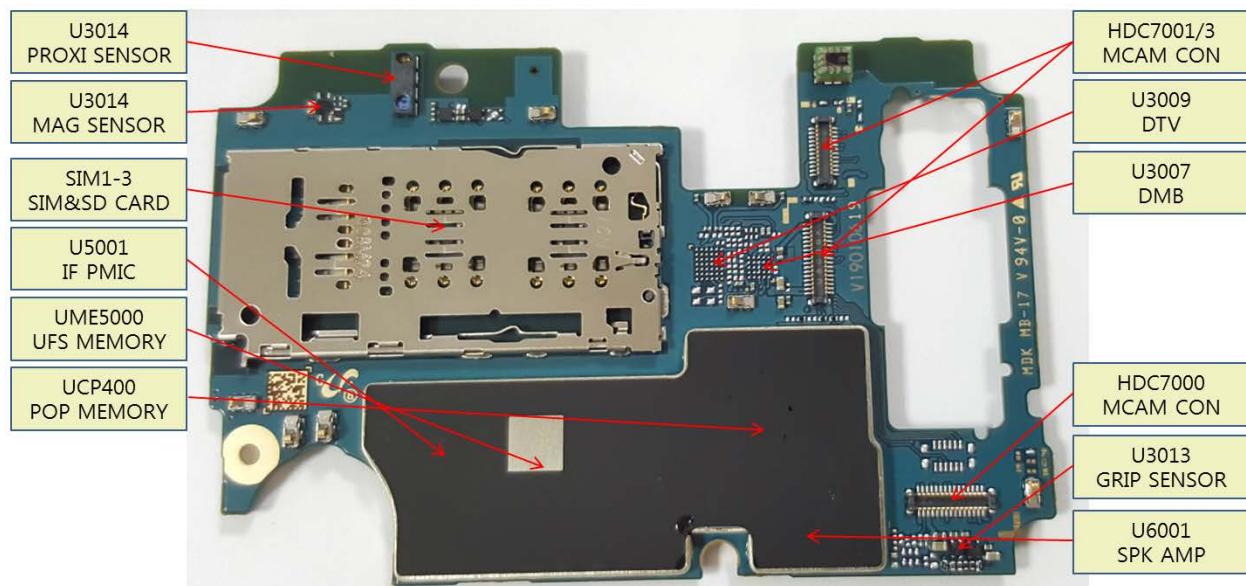
8. Level 3 Repair

8-1. Components Layout

MAIN PBA (TOP SIDE)

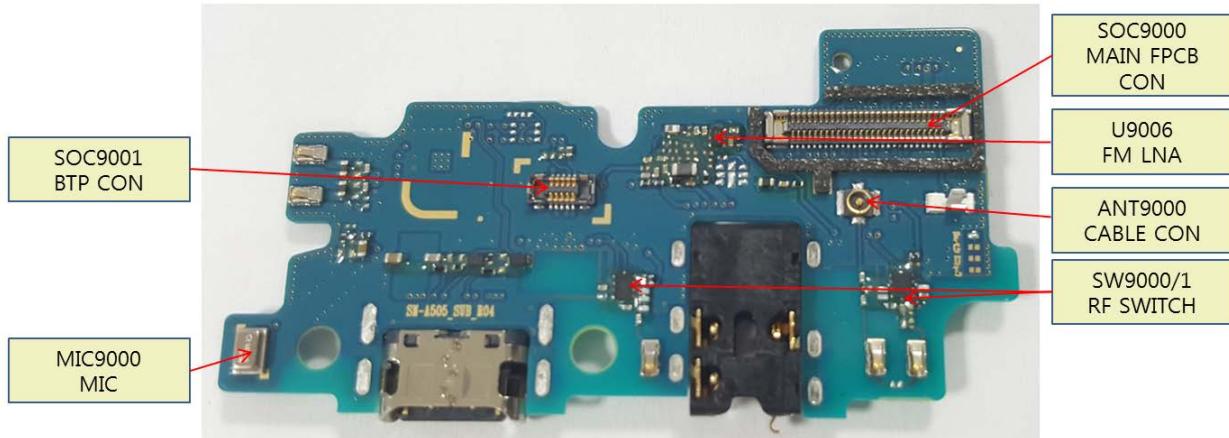


MAIN PBA (BOTTOM SIDE)



8. Level 3 Repair

SUB PBA (TOP SIDE)

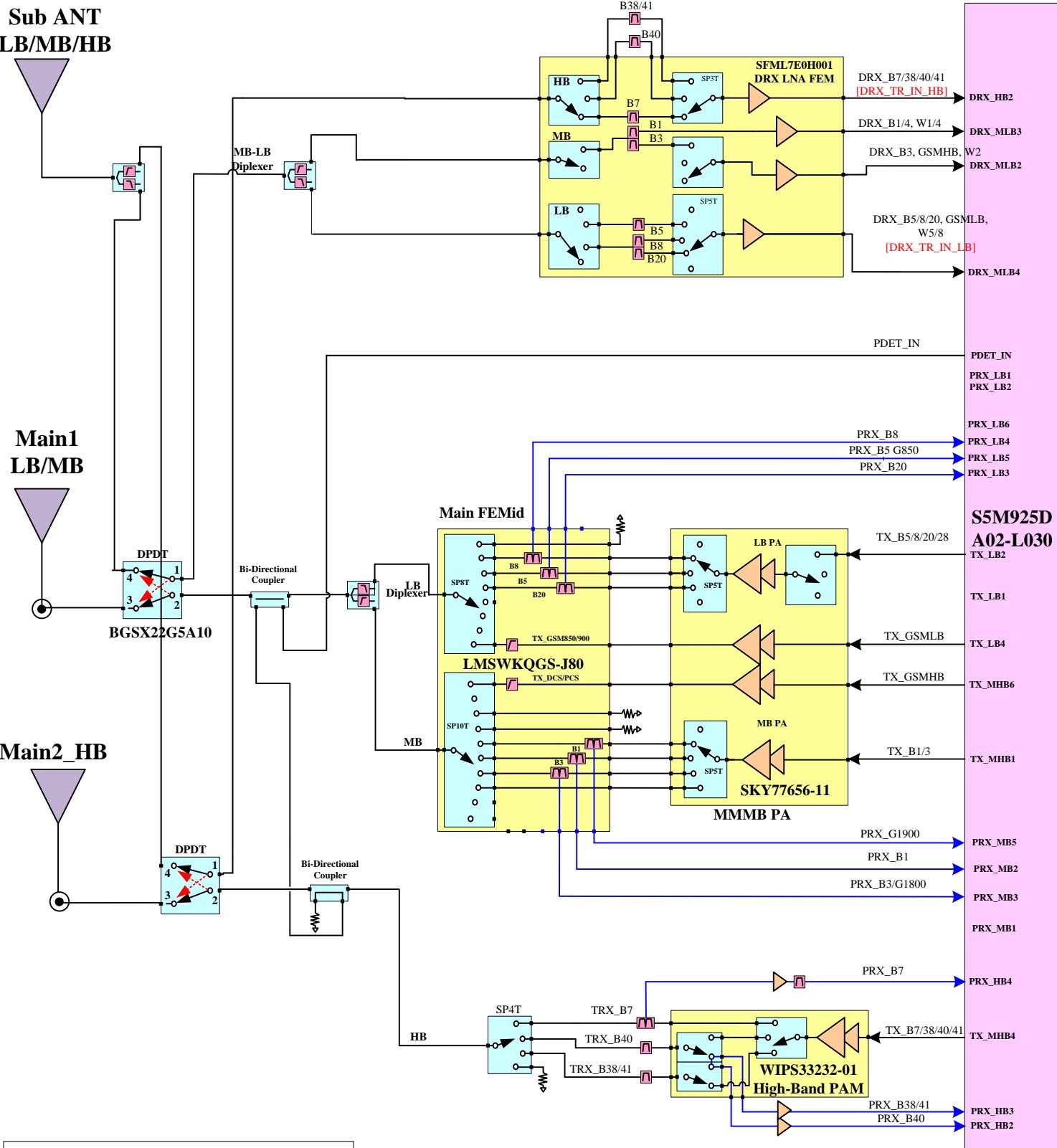


SUB PBA (BOTTOM SIDE)



SM-A505F/DS RF Block Diagram

**Sub ANT
LB/MB/HB**



[SM-A505F/DS RF Band]

2G : Quad

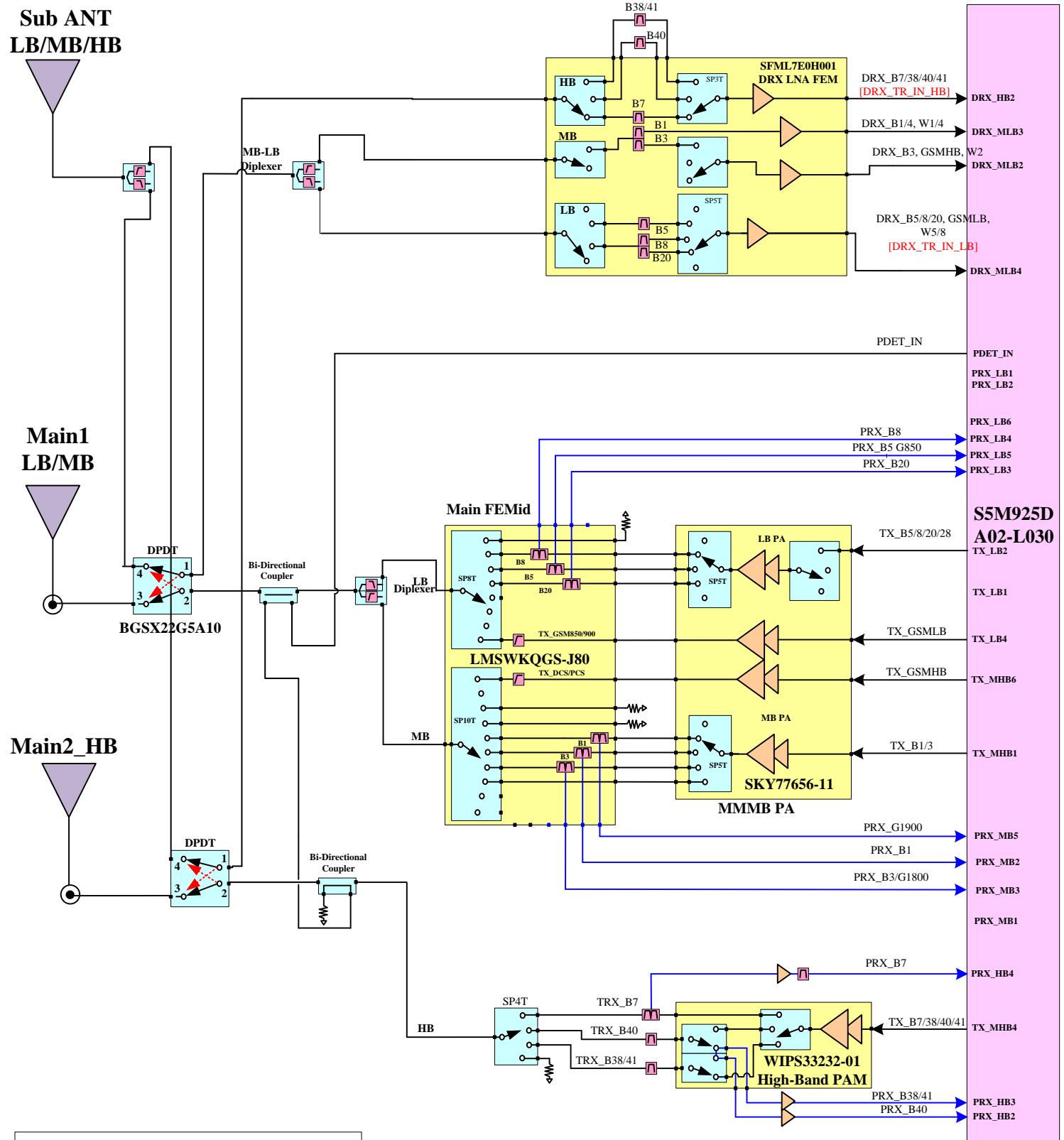
3G : W1,W2,W5,W8

LTE FDD : B1/3/5/7/8/20

LTE TDD : B38/40/41

| | |
|--|---|
| GSM/GPRS/EDGE 850 - Tx 824.2 - 848.8MHz / Rx 869.2 - 893.8MHz | WLAN 2.4G - TRx 2412 - 2462MHz within USA |
| GSM/GPRS/EDGE 1900 - Tx 1850.2 - 1909.8MHz / Rx 1930.2 - 1989.8MHz | WLAN 2.4G - TRx 2412 - 2472MHz Non USA |
| UMTS Band 2 - Tx 1850 - 1910MHz / Rx 1930 - 1990MHz | WLAN 5G - TRx 5180 - 5240MHz |
| UMTS Band 5 - Tx 824 - 849 / Rx 869 - 894MHz | WLAN 5G - TRx 5260 - 5320MHz |
| LTE Band 5 - Tx 824 - 849MHz / Rx 869 - 894MHz | WLAN 5G - TRx 5500 - 5720MHz |
| LTE Band 41 - TRx 2496 - 2690MHz | WLAN 5G - TRx 5745 - 5825MHz |
| | Bluetooth/EDR/LE - TRx 2402 - 2480MHz |
| | NFC - TRx 13.56MHz |
| | GNSS - Rx 1592 - 1606MHz |

SM-A505FN/DS RF Block Diagram



[SM-A505FN/DS RF Band]

2G : Quad

3G : W1,W2,W5,W8

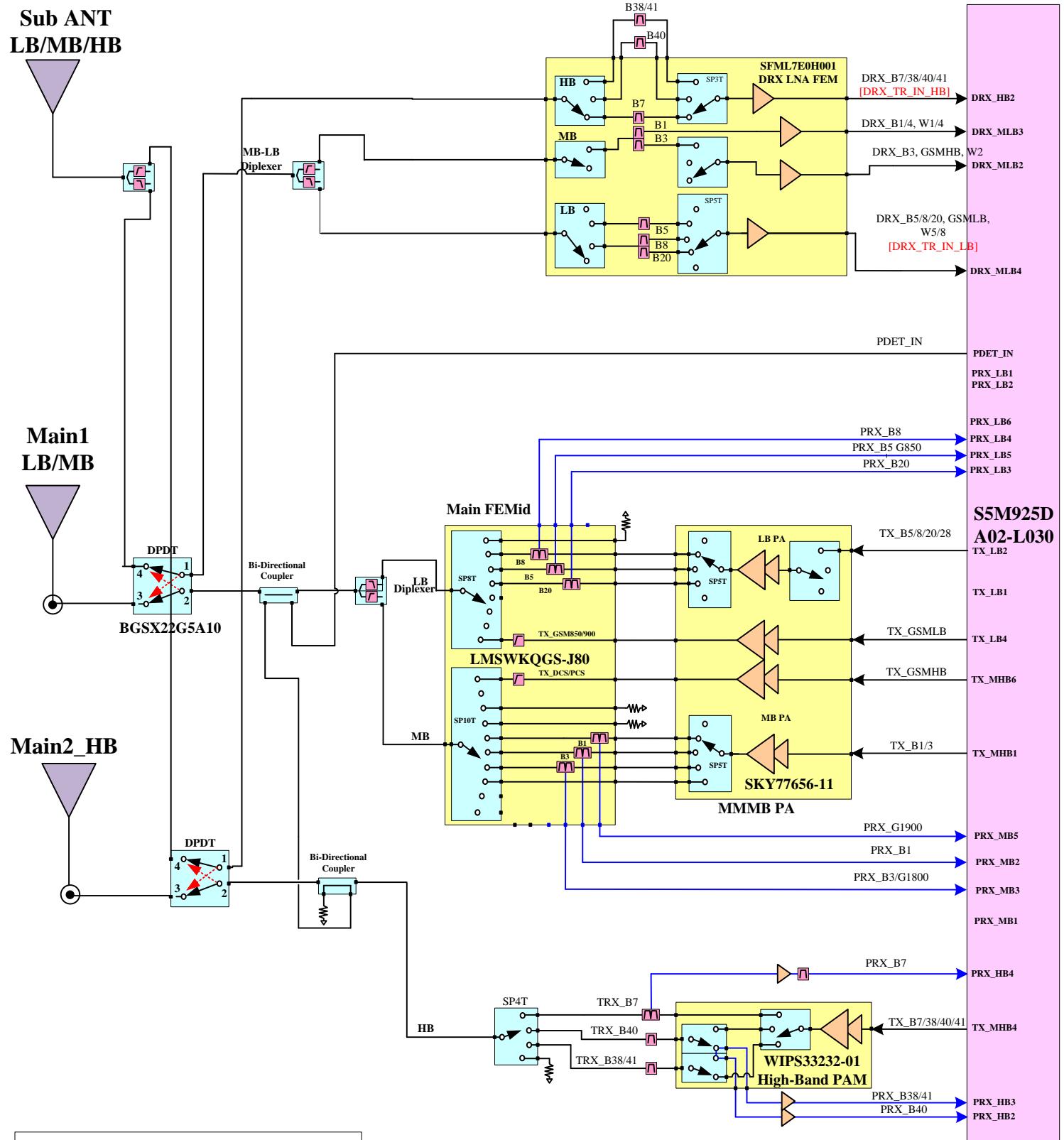
LTE FDD : B1/3/5/7/8/20

LTE TDD : B38/40/41

GSM/GPRS/EDGE 850 - Tx 824.2 - 848.8MHz / Rx 869.2 - 893.8MHz
GSM/GPRS/EDGE 1900 - Tx 1850.2 - 1909.8MHz / Rx 1930.2 - 1989.8MHz
UMTS Band 2 - Tx 1850 - 1910MHz / Rx 1930 - 1990MHz
UMTS Band 5 - Tx 824 - 849 / Rx 869 - 894MHz
LTE Band 5 - Tx 824 - 849MHz / Rx 869 - 894MHz
LTE Band 41 - TRx 2496 - 2690MHz

WLAN 2.4G - TRx 2412 - 2462MHz within USA
WLAN 2.4G - TRx 2412 - 2472MHz Non USA
WLAN 5G - TRx 5180 - 5240MHz
WLAN 5G - TRx 5260 - 5320MHz
WLAN 5G - TRx 5500 - 5720MHz
WLAN 5G - TRx 5745 - 5825MHz
Bluetooth/EDR/LE - TRx 2402 - 2480MHz
NFC - TRx 13.56MHz
GNSS - Rx 1592 - 1606MHz

SM-A505FN/DS RF Block Diagram



[SM-A505FN/DS RF Band]

2G : Quad

3G : W1,W2,W5,W8

LTE FDD : B1/3/5/7/8/20

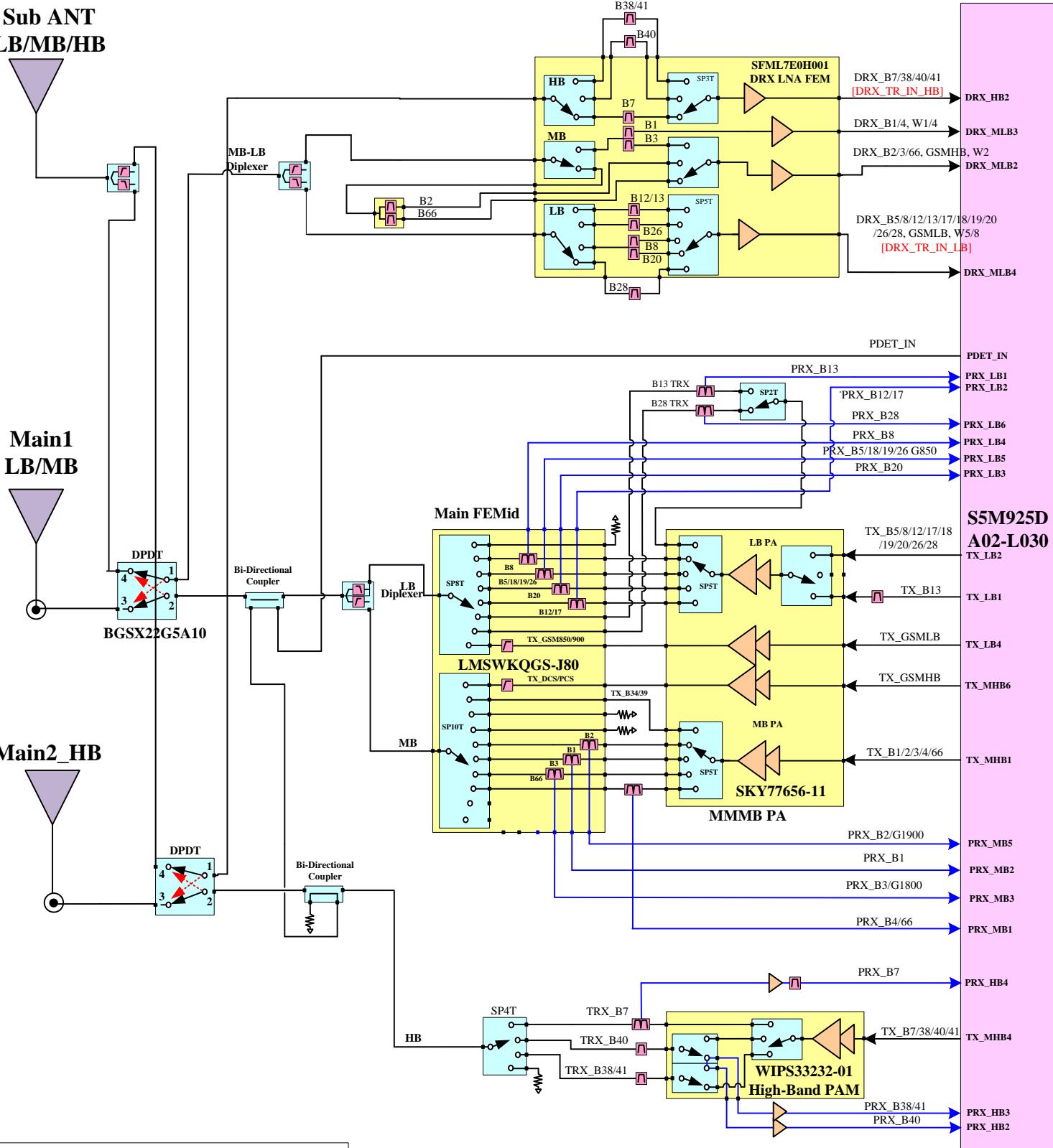
LTE TDD : B38/40/41

GSM/GPRS/EDGE 850 - Tx 824.2 - 848.8MHz / Rx 869.2 - 893.8MHz
GSM/GPRS/EDGE 1900 - Tx 1850.2 - 1909.8MHz / Rx 1930.2 - 1989.8MHz
UMTS Band 2 - Tx 1850 - 1910MHz / Rx 1930 - 1990MHz
UMTS Band 5 - Tx 824 - 849 / Rx 869 - 894MHz
LTE Band 5 - Tx 824 - 849MHz / Rx 869 - 894MHz
LTE Band 41 - TRx 2496 - 2690MHz

WLAN 2.4G - TRx 2412 - 2462MHz within USA
WLAN 2.4G - TRx 2412 - 2472MHz Non USA
WLAN 5G - TRx 5180 - 5240MHz
WLAN 5G - TRx 5260 - 5320MHz
WLAN 5G - TRx 5500 - 5720MHz
WLAN 5G - TRx 5745 - 5825MHz
Bluetooth/EDR/LE - TRx 2402 - 2480MHz
NFC - TRx 13.56MHz
GNSS - Rx 1592 - 1606MHz

SM-A505G/DS RF Block Diagram

**Sub ANT
LB/MB/HB**



[SM-A505G/DS RF Band]

2G : Quad

3G : W1,W2,W4,W5,W8

LTE FDD :

B1/2/3/4/7/8/12(17)/13/20/26(5/18)

19)/28

LTE TDD : B38/40/41

GSM/GPRS/EDGE 850 - Tx 824.2 - 848.8MHz / Rx 869.2 - 893.8MHz
GSM/GPRS/EDGE 1900 - Tx 1850.2 - 1909.8MHz / Rx 1930.2 - 1989.8MHz

UMTS Band 2 - Tx 1850 - 1910MHz / Rx 1930 - 1990MHz

UMTS Band 4 - Tx 1710 - 1755 / Rx 2110 - 2155MHz

UMTS Band 5 - Tx 824 - 849 / Rx 869 - 894MHz

LTE Band 2 - Tx 1850 - 1910MHz / Rx 1930 - 1990MHz

LTE Band 4 - Tx 1710 - 1755MHz / Rx 2110 - 2155MHz

LTE Band 5 - Tx 824 - 849MHz / Rx 869 - 894MHz

LTE Band 12 - Tx 699 - 716MHz / Rx 729 - 746MHz

LTE Band 13 - Tx 777 - 787MHz / Rx 746 - 756MHz

LTE Band 17 - Tx 704 - 716MHz / Rx 734 - 746MHz

LTE Band 25 - Tx 1850 - 1915MHz / Rx 1930 - 1995MHz

LTE Band 41 - TRx 2496 - 2690MHz

LTE Band 66 - Tx 1710 - 1780MHz / Rx 2110 - 2200MHz

WLAN 2.4G - TRx 2412 - 2462MHz within USA

WLAN 2.4G - TRx 2412 - 2472MHz Non USA

WLAN 5G - TRx 5180 - 5240MHz

WLAN 5G - TRx 5260 - 5320MHz

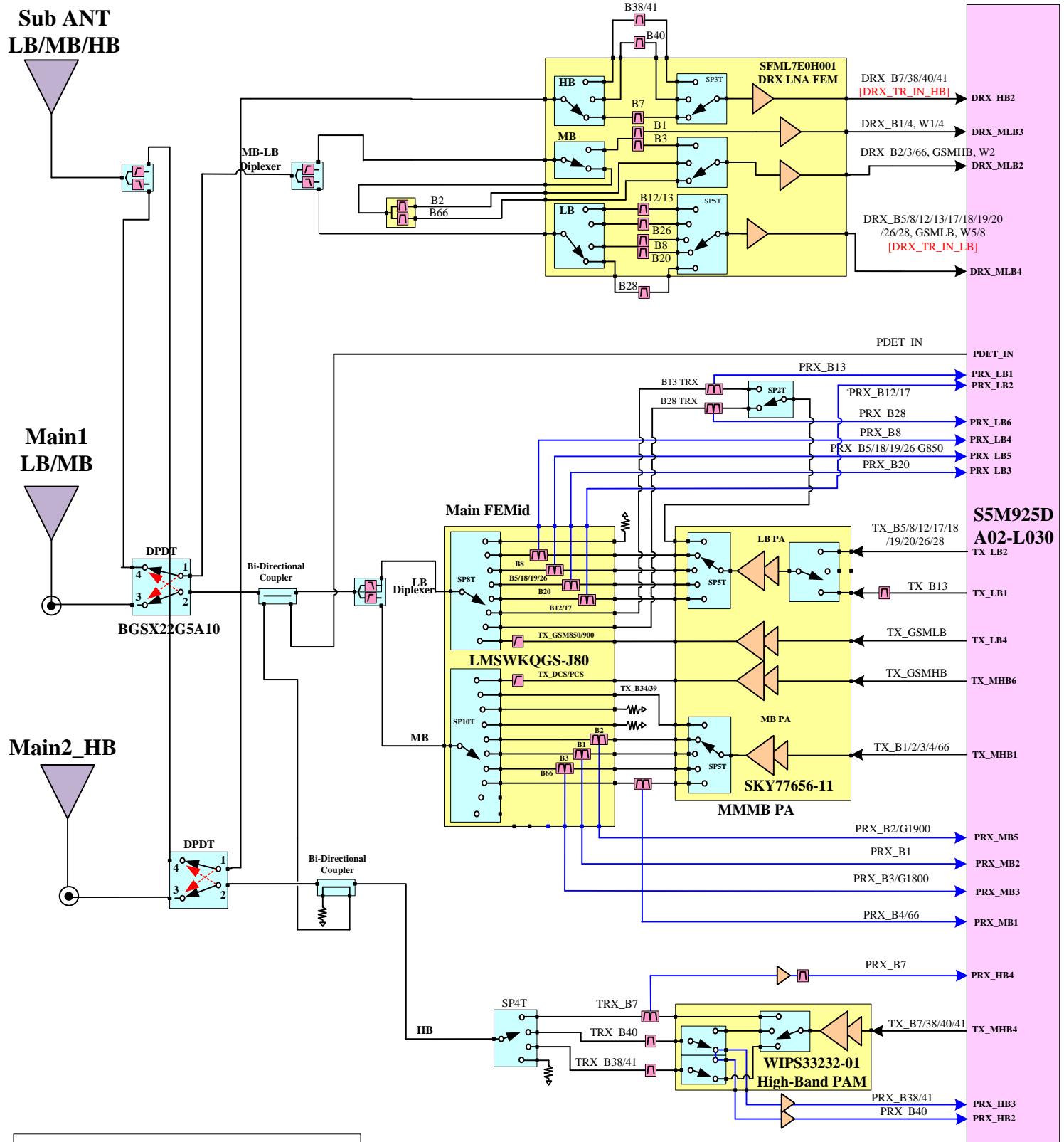
WLAN 5G - TRx 5500 - 5720MHz

WLAN 5G - TRx 5745 - 5825MHz

Bluetooth/EDR/LE - TRx 2402 - 2480MHz

GNSS - Rx 1592 - 1606MHz

SM-A505GT/DS RF Block Diagram



[SM-A505GT/DS RF Band]

2G : Quad

3G : W1,W2,W4,W5,W8

LTE FDD :

B1/2/3/4/7/8/12(17)/13/20/26(5/18/

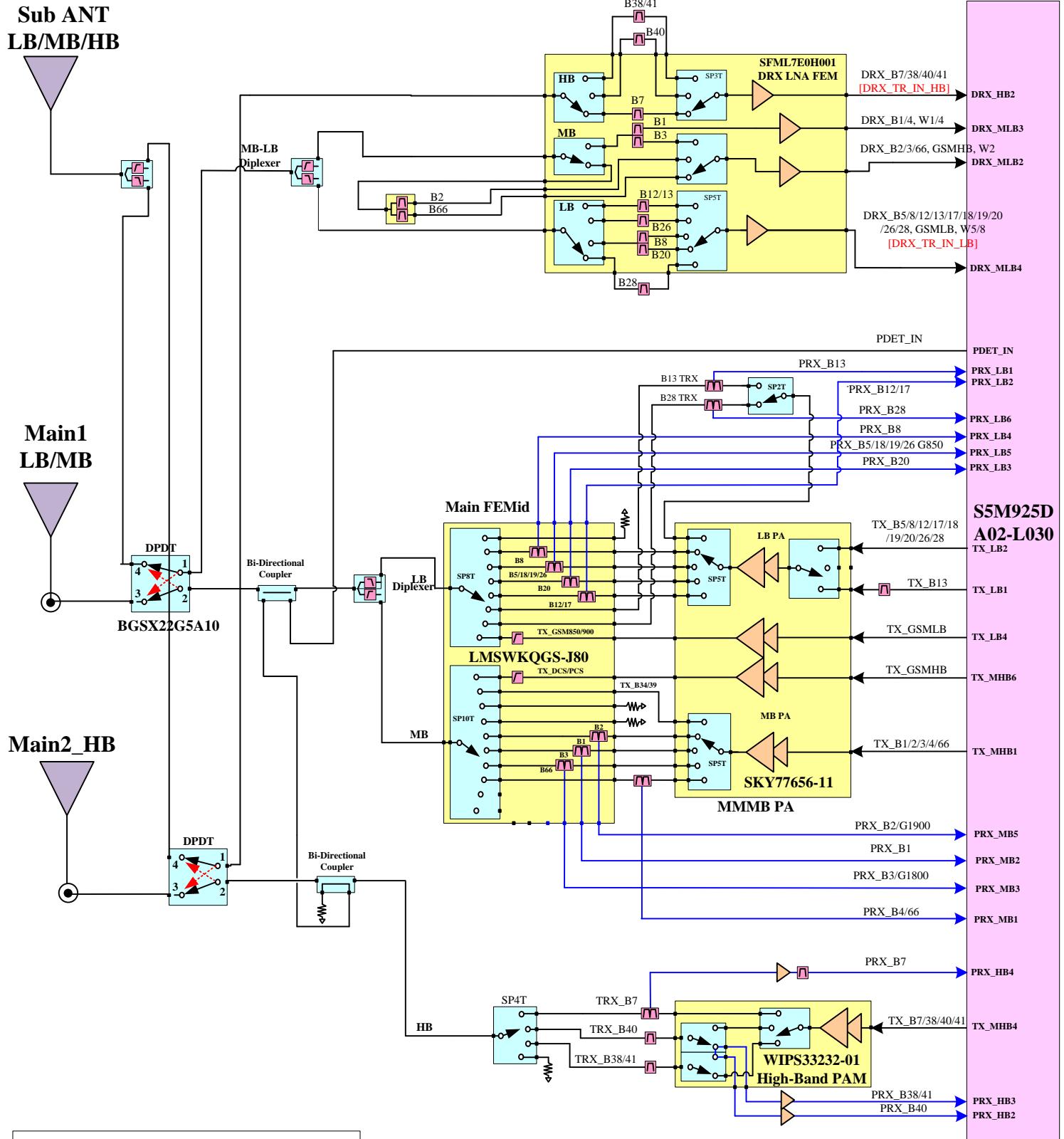
19)/28

LTE TDD : B38/40/41

GSM/GPRS/EDGE 850 - Tx 824.2 - 848.8MHz / Rx 869.2 - 893.8MHz
GSM/GPRS/EDGE 1900 - Tx 1850.2 - 1909.8MHz / Rx 1930.2 - 1989.8MHz
UMTS Band 2 - Tx 1850 - 1910MHz / Rx 1930 - 1990MHz
UMTS Band 4 - Tx 1710 - 1755 / Rx 2110 - 2155MHz
UMTS Band 5 - Tx 824 - 849 / Rx 869 - 894MHz
LTE Band 2 - Tx 1850 - 1910MHz / Rx 1930 - 1990MHz
LTE Band 4 - Tx 1710 - 1755MHz / Rx 2110 - 2155MHz
LTE Band 5 - Tx 824 - 849MHz / Rx 869 - 894MHz
LTE Band 12 - Tx 699 - 716MHz / Rx 729 - 746MHz
LTE Band 13 - Tx 777 - 787MHz / Rx 746 - 756MHz
LTE Band 17 - Tx 704 - 716MHz / Rx 734 - 746MHz
LTE Band 26 - Tx 814 - 849MHz / Rx 859 - 894MHz
LTE Band 41 - TRx 2496 - 2690MHz
LTE Band 66 - Tx 1710 - 1780MHz / Rx 2110 - 2200MHz

WLAN 2.4G - TRx 2412 - 2462MHz within USA
WLAN 2.4G - TRx 2412 - 2472MHz Non USA
WLAN 5G - TRx 5180 - 5240MHz
WLAN 5G - TRx 5260 - 5320MHz
WLAN 5G - TRx 5500 - 5720MHz
WLAN 5G - TRx 5745 - 5825MHz
Bluetooth/EDR/LE - TRx 2402 - 2480MHz
GNSS - Rx 1592 - 1606MHz

SM-A505GN/DS RF Block Diagram



[SM-A505GN/DS RF Band]

2G : Quad

3G : W1,W2,W4,W5,W8

LTE FDD :

B1/2/3/4/7/8/12(17)/13/20/26(5/28)

LTE TDD : B38/40/41

GSM/GPRS/EDGE 850 - Tx 824.2 - 848.8MHz / Rx 869.2 - 893.8MHz

GSM/GPRS/EDGE 1900 - Tx 1850.2 - 1909.8MHz / Rx 1930.2 - 1989.8MHz

UMTS Band 2 - Tx 1850 - 1910MHz / Rx 1930 - 1990MHz

UMTS Band 4 - Tx 1710 - 1755 / Rx 2110 - 2155MHz

UMTS Band 5 - Tx 824 - 849 / Rx 869 - 894MHz

LTE Band 2 - Tx 1850 - 1910MHz / Rx 1930 - 1990MHz

LTE Band 4 - Tx 1710 - 1755MHz / Rx 2110 - 2155MHz

LTE Band 5 - Tx 824 - 849MHz / Rx 869 - 894MHz

LTE Band 12 - Tx 699 - 716MHz / Rx 729 - 746MHz

LTE Band 13 - Tx 777 - 787MHz / Rx 746 - 756MHz

LTE Band 17 - Tx 704 - 716MHz / Rx 734 - 746MHz

LTE Band 26 - Tx 814 - 849MHz / Rx 859 - 894MHz

LTE Band 41 - TRx 2496 - 2690MHz

LTE Band 66 - Tx 1710 - 1780MHz / Rx 2110 - 2200MHz

WLAN 2.4G - TRx 2412 - 2462MHz within USA

WLAN 2.4G - TRx 2412 - 2472MHz Non USA

WLAN 5G - TRx 5180 - 5240MHz

WLAN 5G - TRx 5260 - 5320MHz

WLAN 5G - TRx 5500 - 5720MHz

WLAN 5G - TRx 5745 - 5825MHz

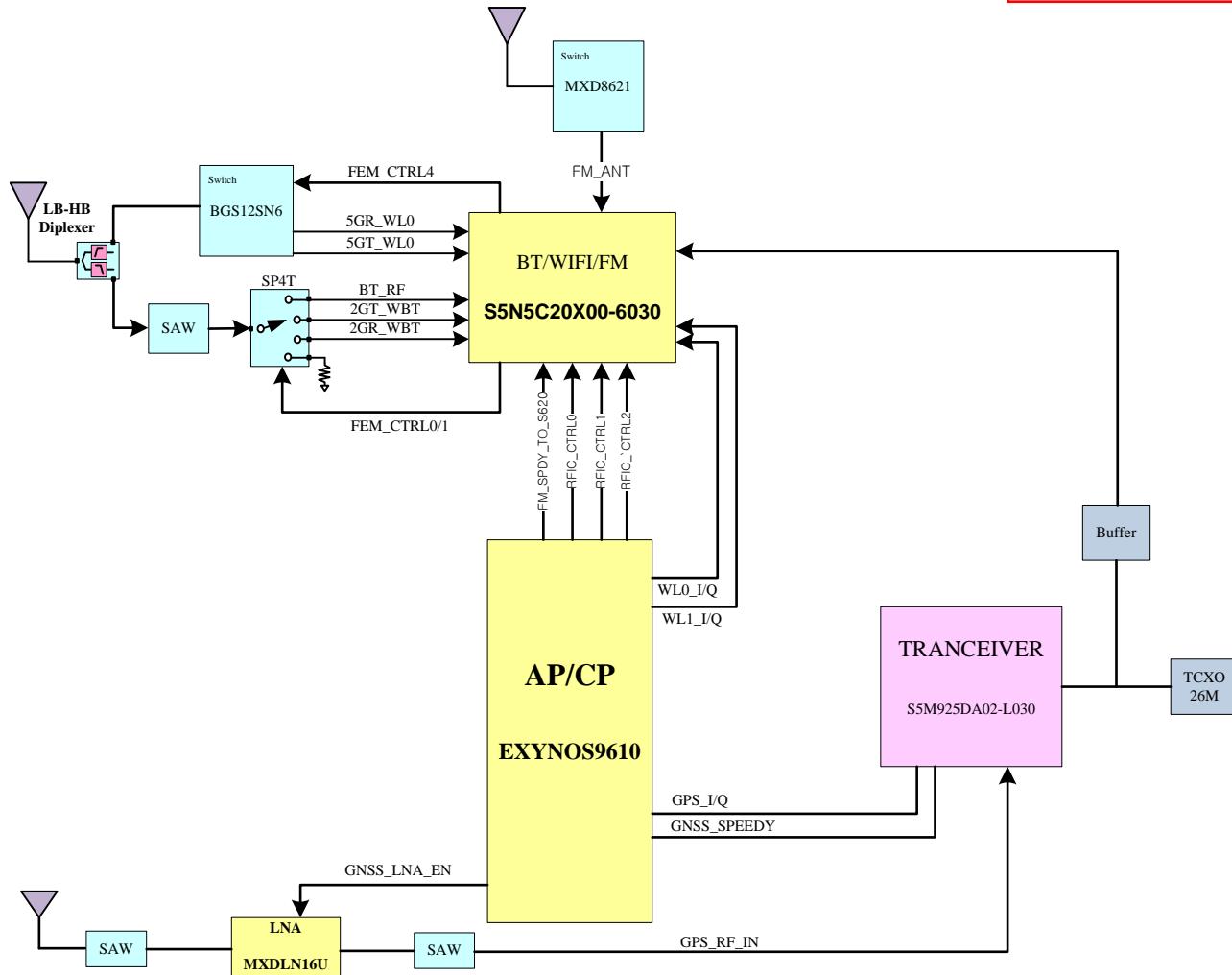
Bluetooth/EDR/LE - TRx 2402 - 2480MHz

NFC - TRx 13.56MHz

GNSS - Rx 1592 - 1606MHz

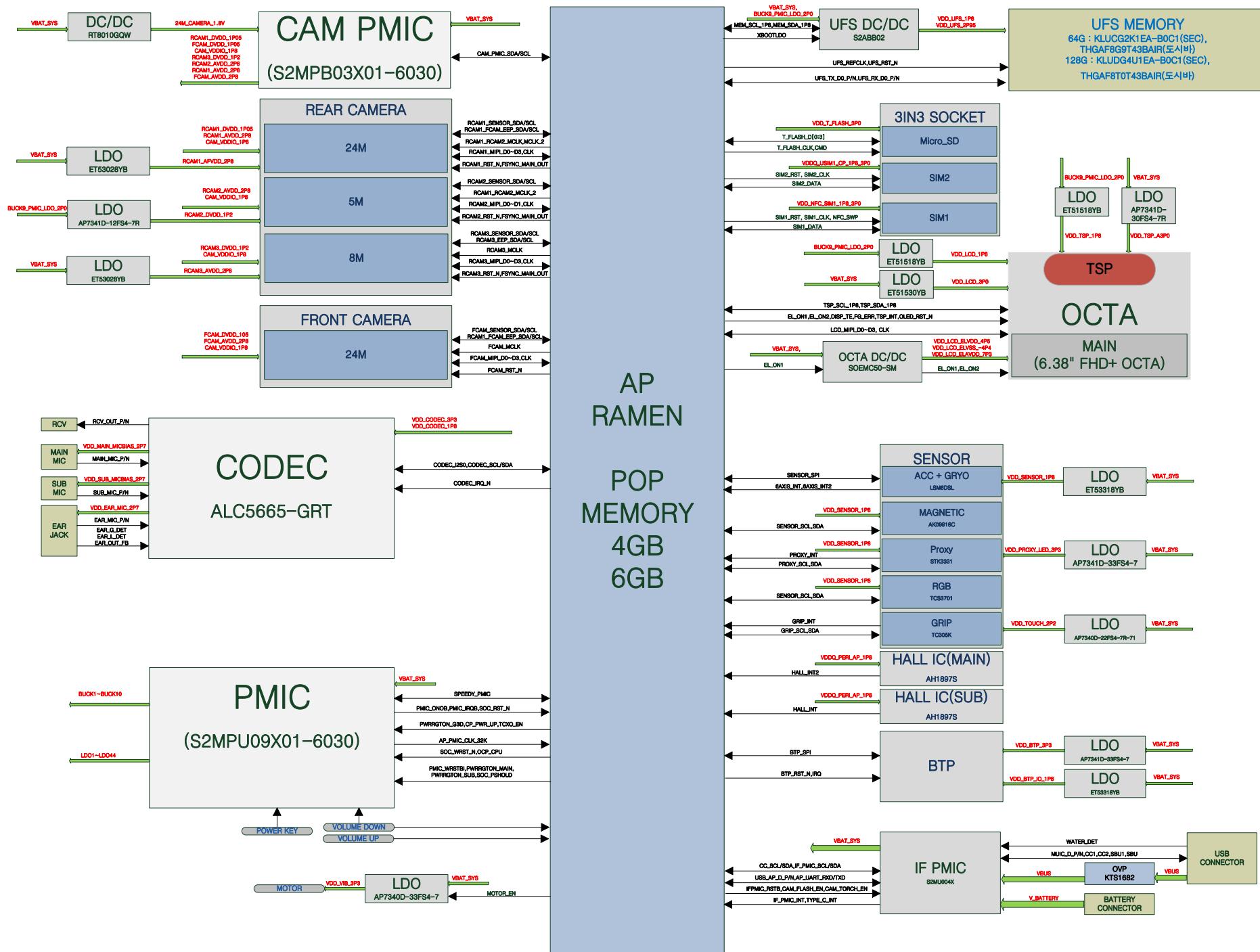
A50 Connectivity Block Diagram

SM-A505F/GT/G/GN/FN/FM
Common



A50 BB Block Diagram

SM-A505F/GT/G/GN/FN/FM
Common



SM-A505F/GT/G/GN/FN/FM

Common

U3014

U7632

C2001

R2007

R2008

U3011 U3018 U3800

U7031

SIM4UP

SIM1

SIM2

SIM3

U3008

HDC7003

HDC7001

U7233

SIDE PLATE

BH6002

CON6000

RNT15185

RNT15184

U7034

U5001

L5012

ZD5001

SC6001

UME5000

U7035

UCP400

U6001

L6001

Z56001

U6002

C4851

R6005

C4852

C6007

C4853

C6008

C4854

C6009

C4855

C6010

C4856

C6011

C4857

C6012

C4858

C6013

C4859

C6014

C4860

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C6153

C4999

C6154

C5000

C4999

SM-A505F/GT/G/GN/FN/FM
Common

0009sns

SIDE BY SIDE

CON6001

D5000

ANT5003

ANT5004

ANT5004

HDC7004

HEA6001

SC6004
C3015
C3037
C3038
C3039
Lane 1

3015

HDC700

SC600

11002

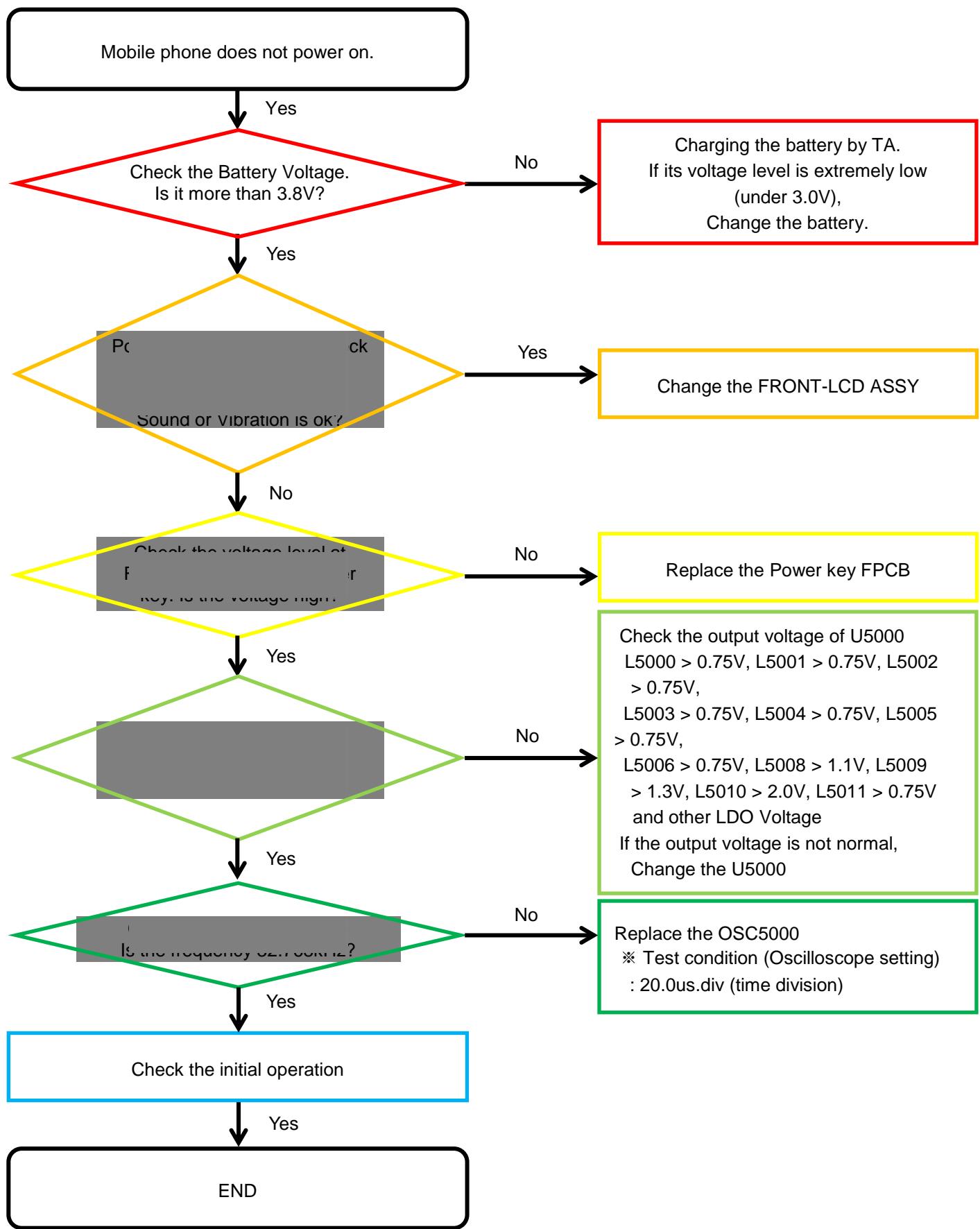
1000

U707

1

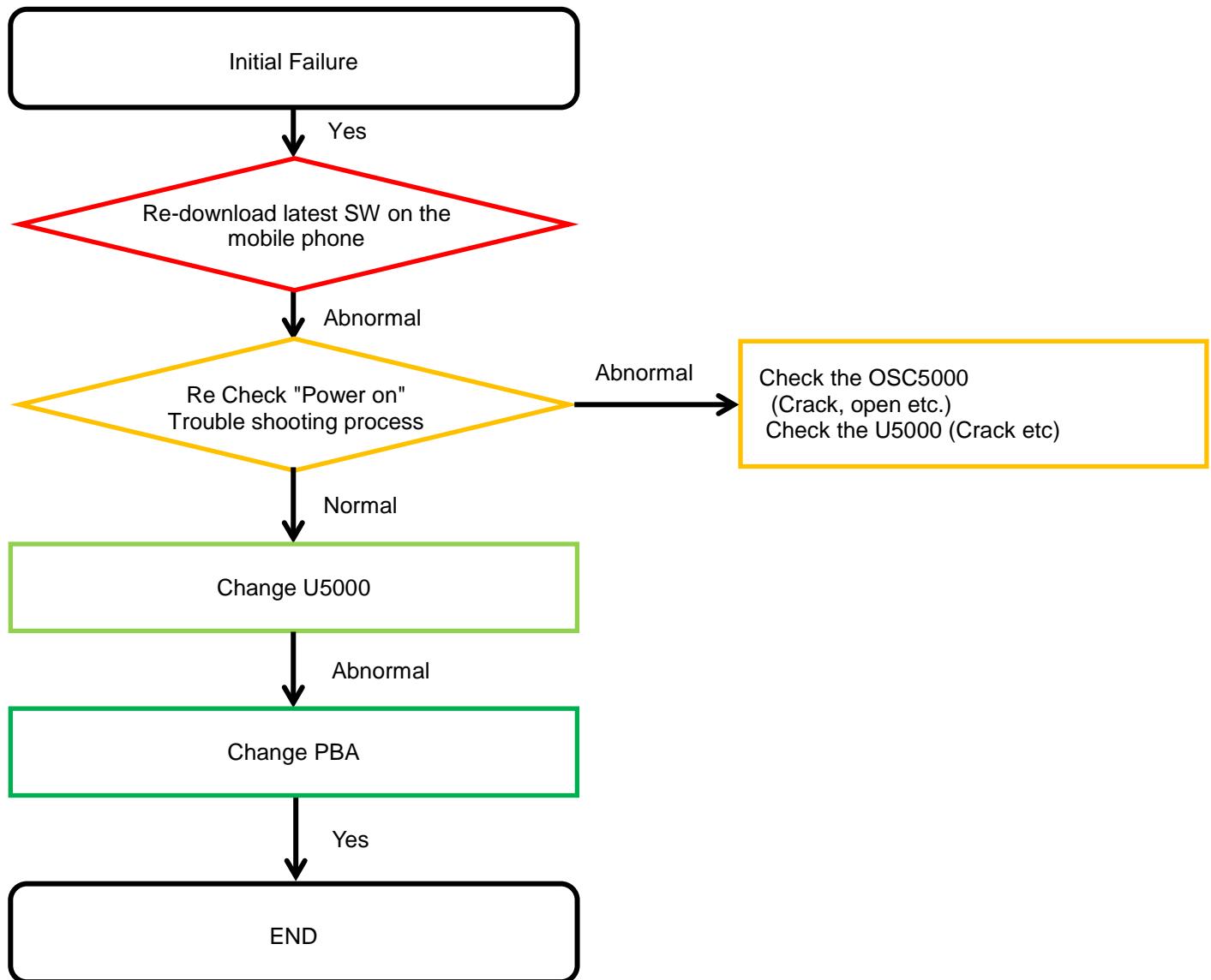
8. Level 3 Repair

8-4-1. Power On



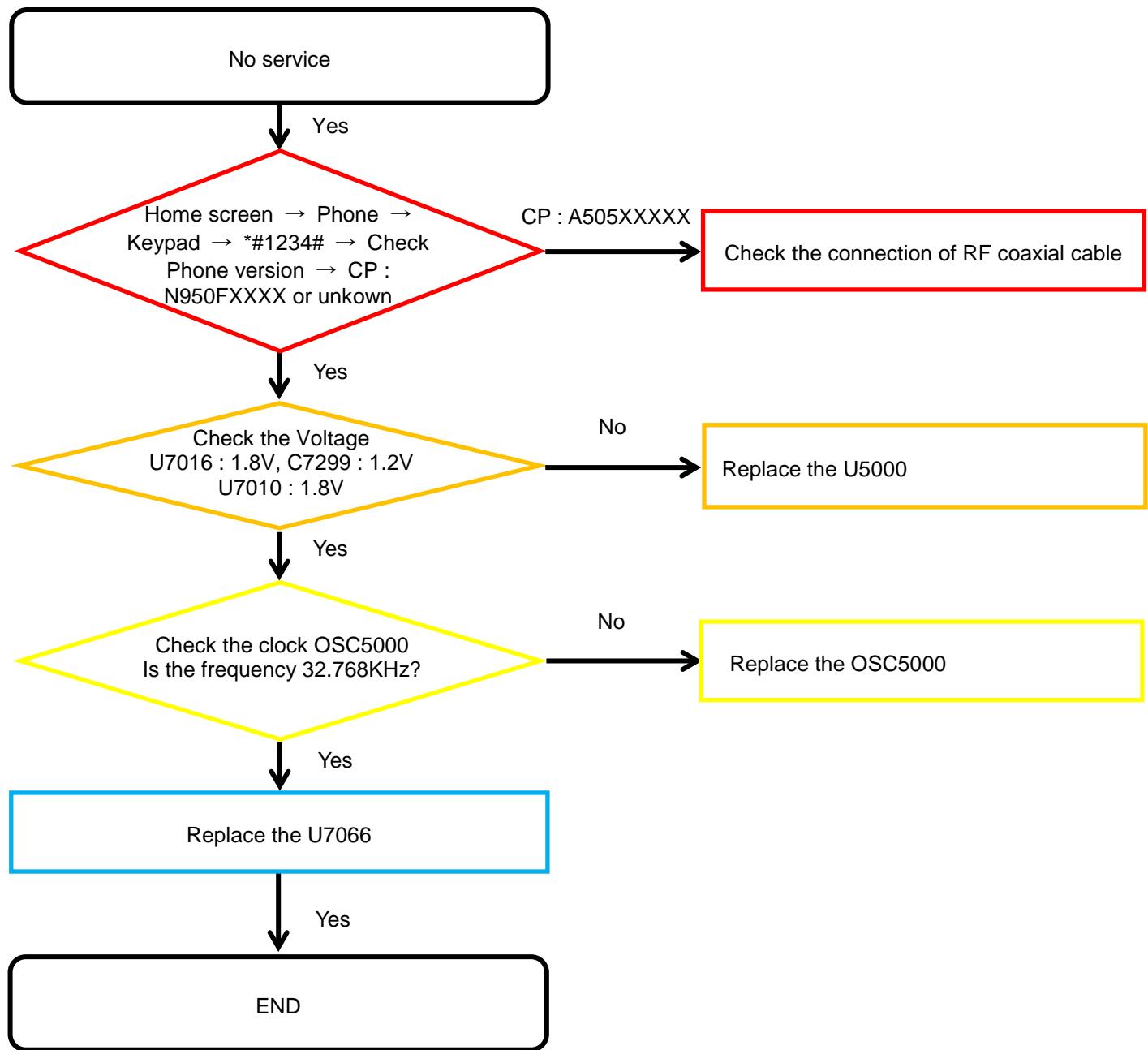
8. Level 3 Repair

8-4-2. Initial



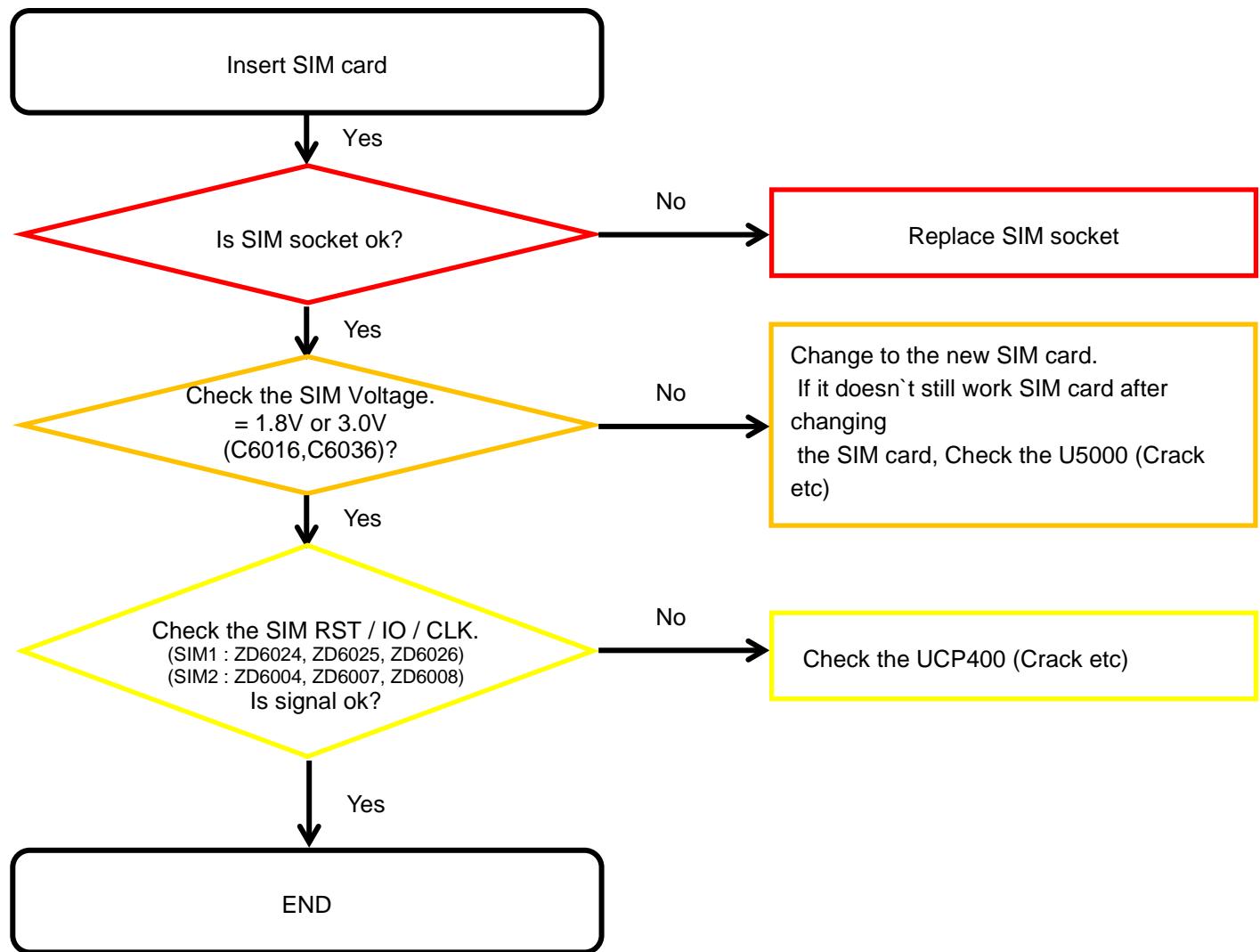
8. Level 3 Repair

8-4-3. No Service



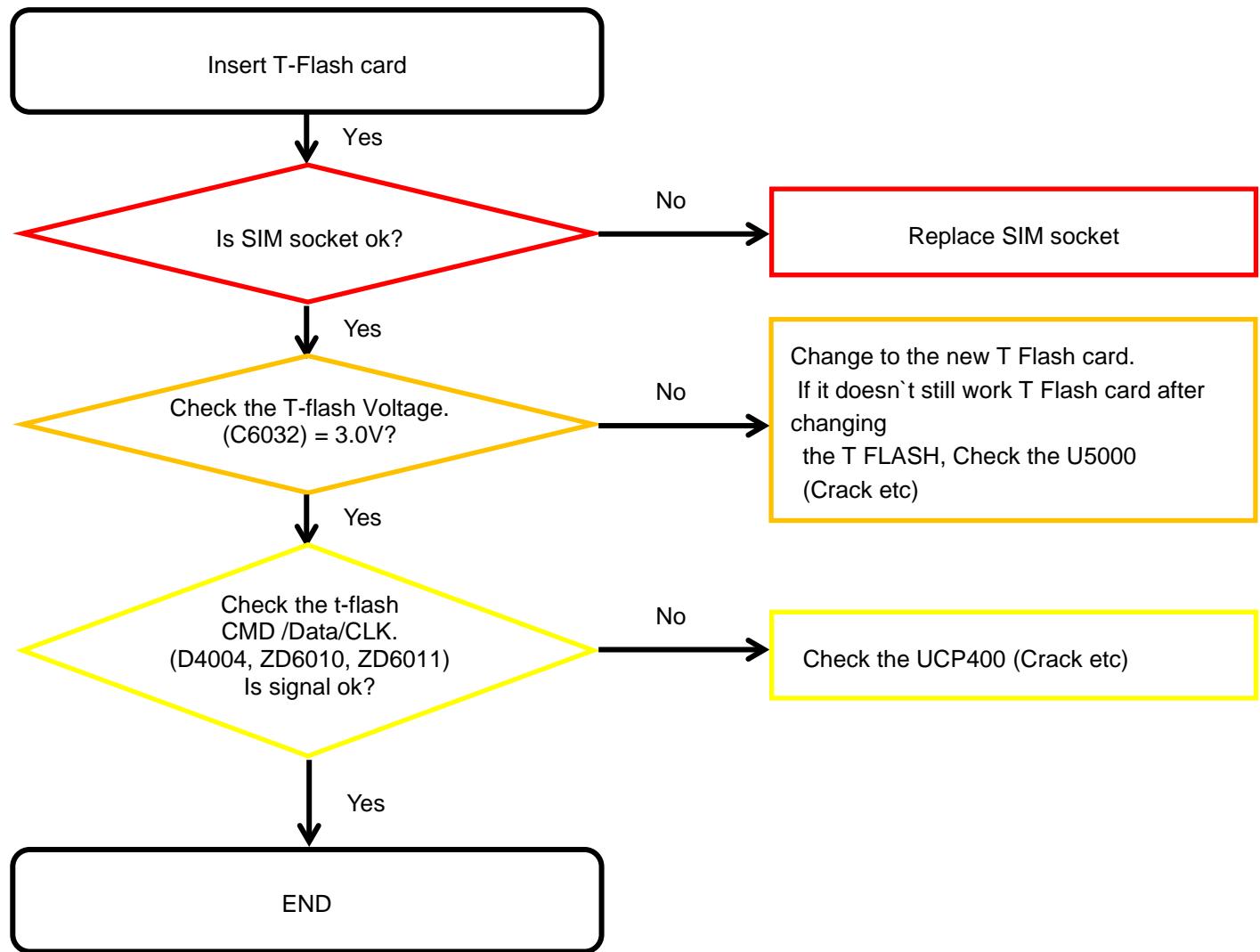
8. Level 3 Repair

8-4-4. SIM Part



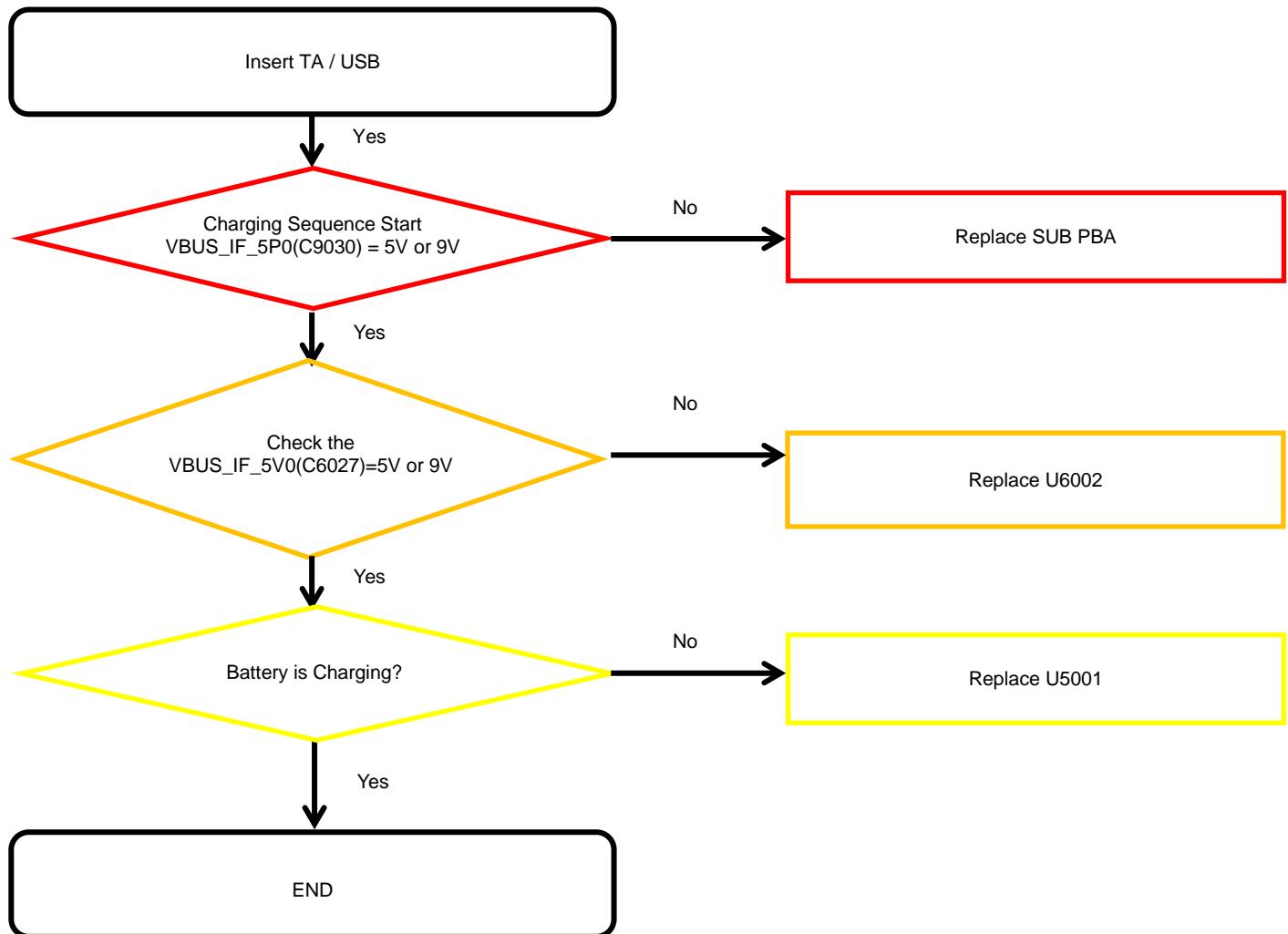
8. Level 3 Repair

8-4-5. T-Flash Part



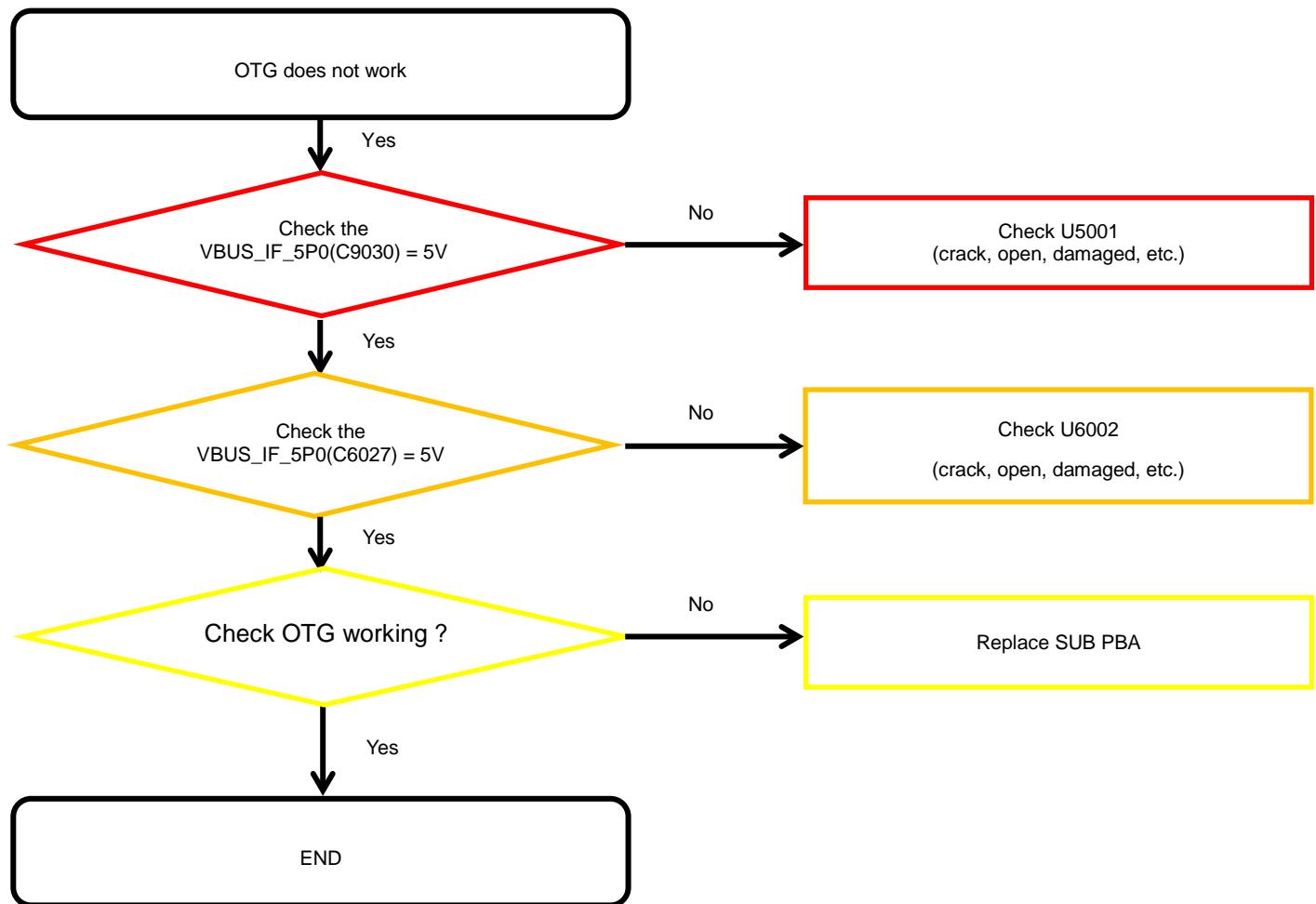
8. Level 3 Repair

8-4-6. Cable Charging Part



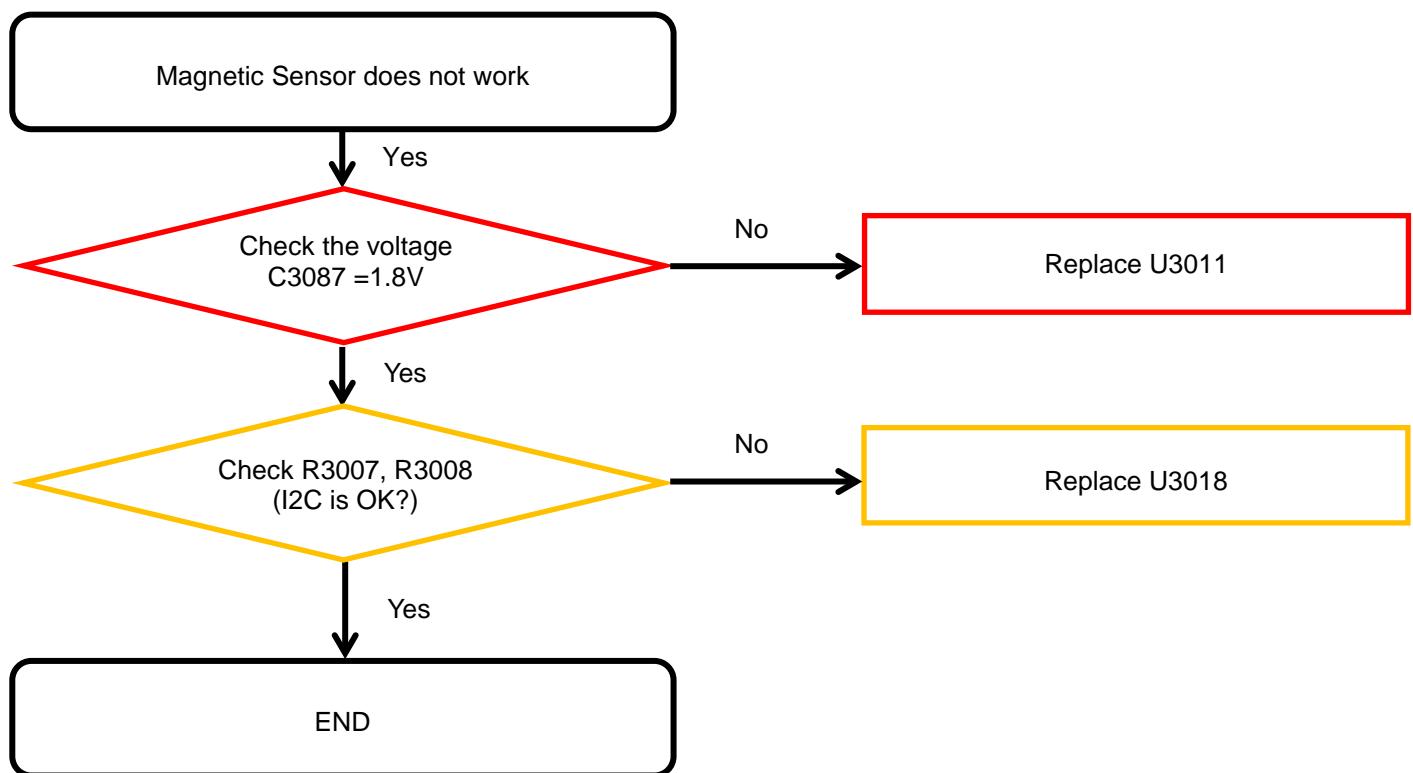
8. Level 3 Repair

8-4-7. OTG



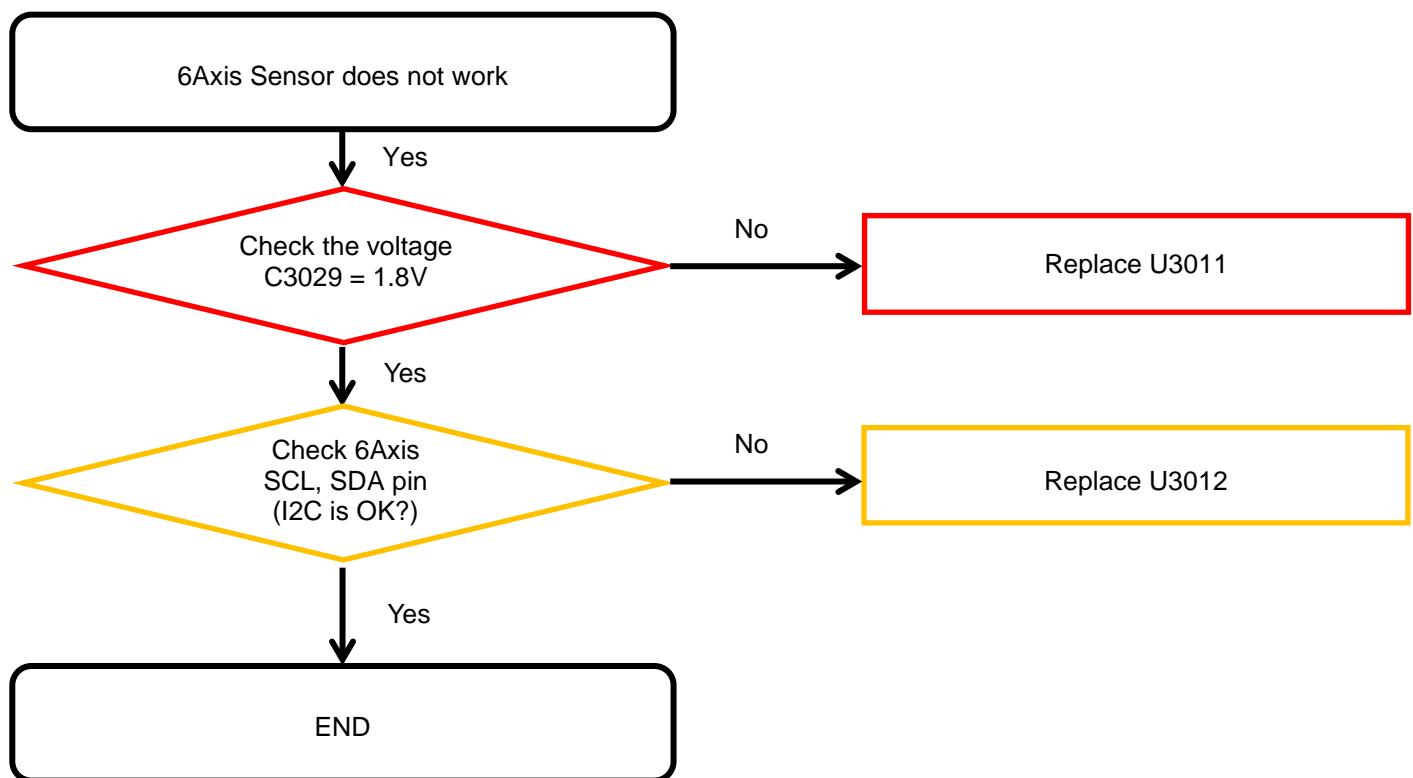
8. Level 3 Repair

8-4-8-1. Magnetic Sensor



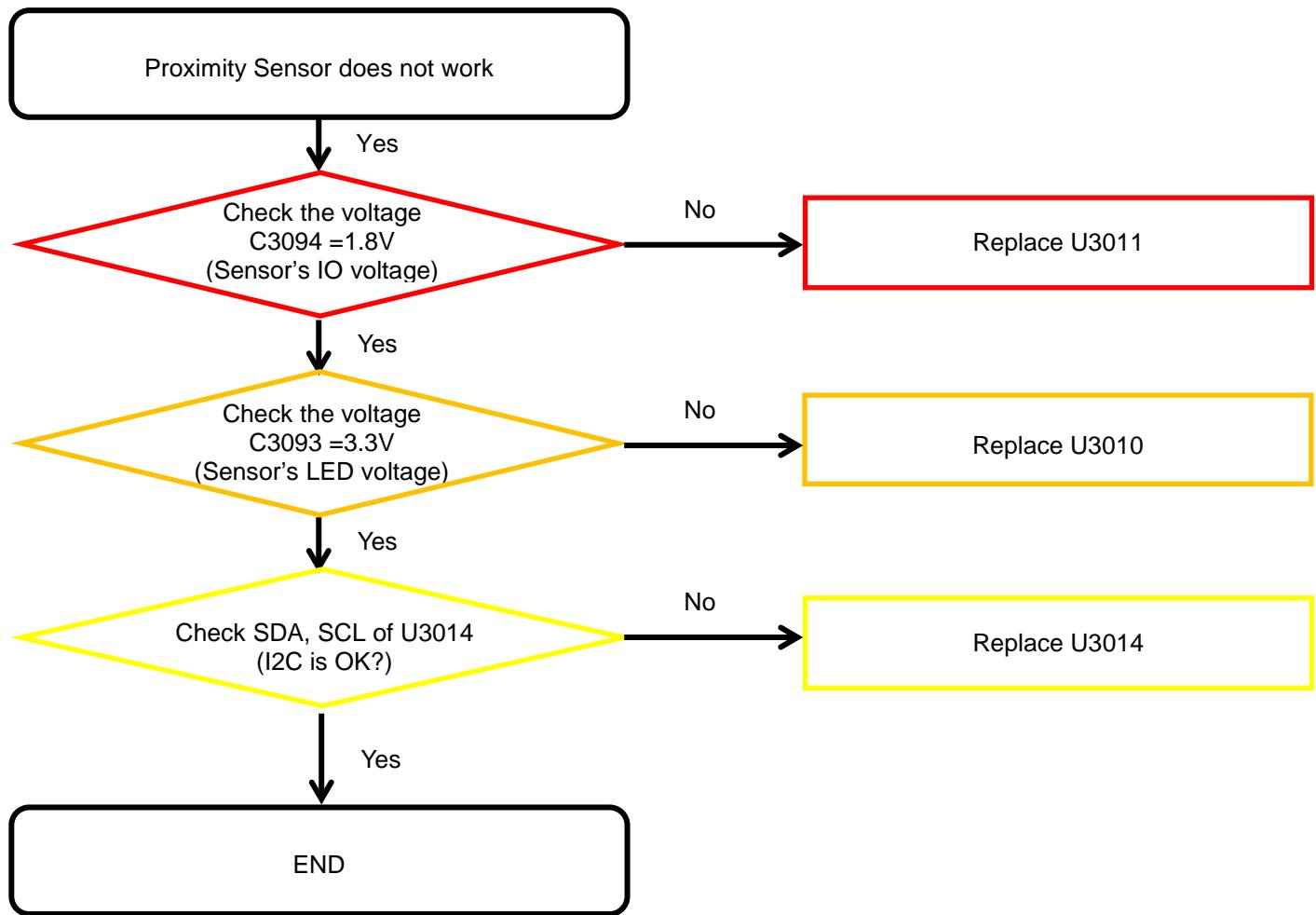
8. Level 3 Repair

8-4-8-2. 6Axis Sensor



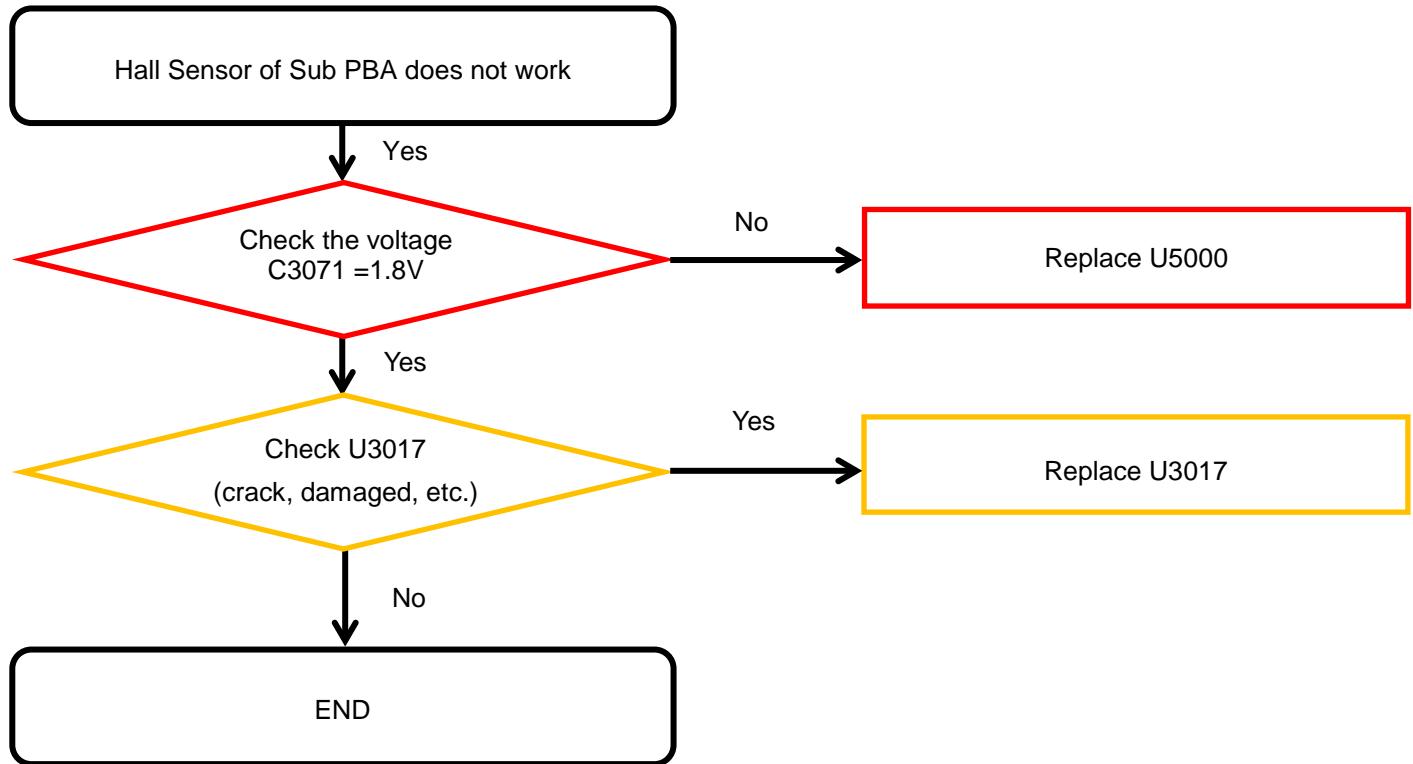
8. Level 3 Repair

8-4-8-3. Proximity



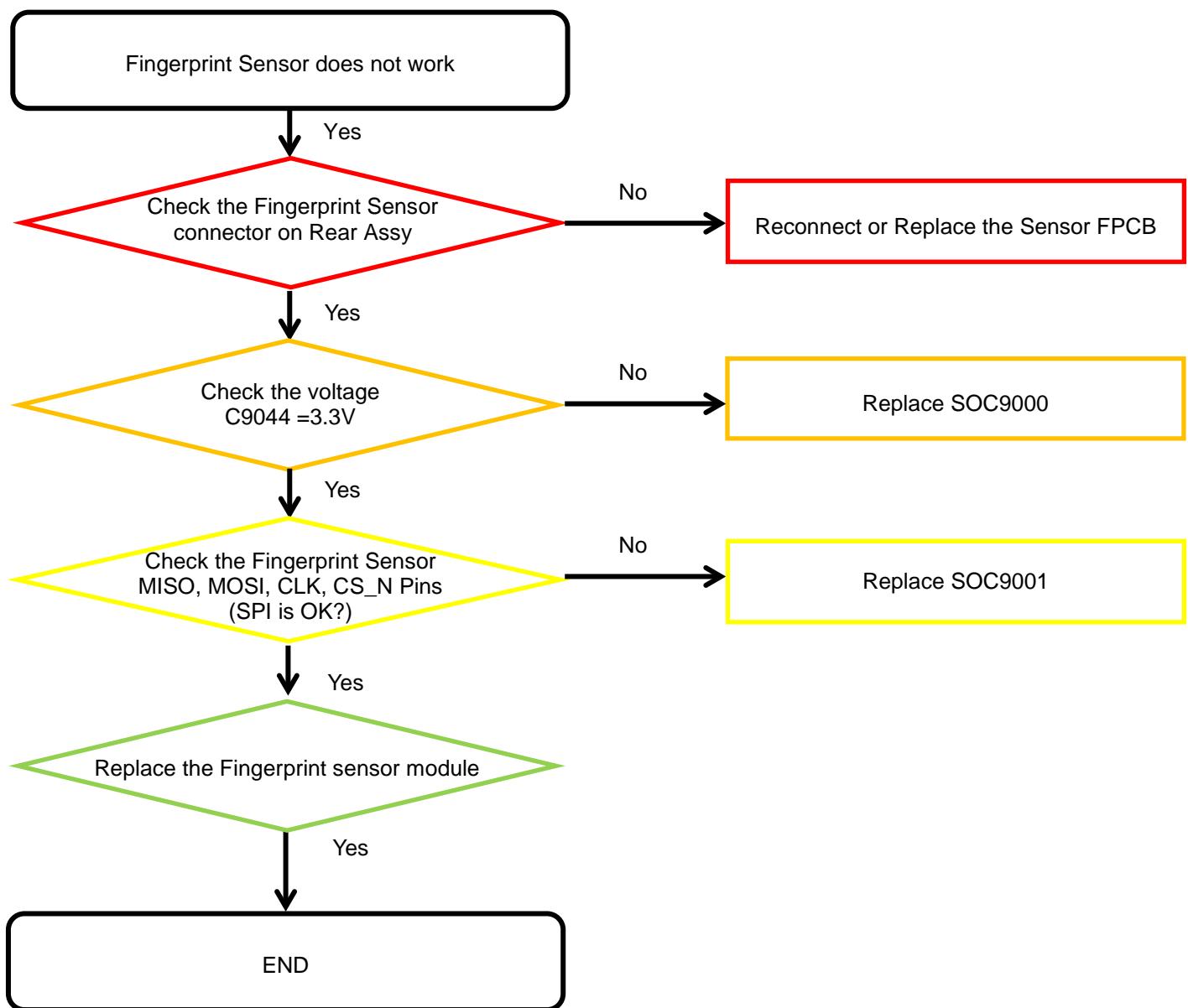
8. Level 3 Repair

8-4-8-4. Hall Sensor



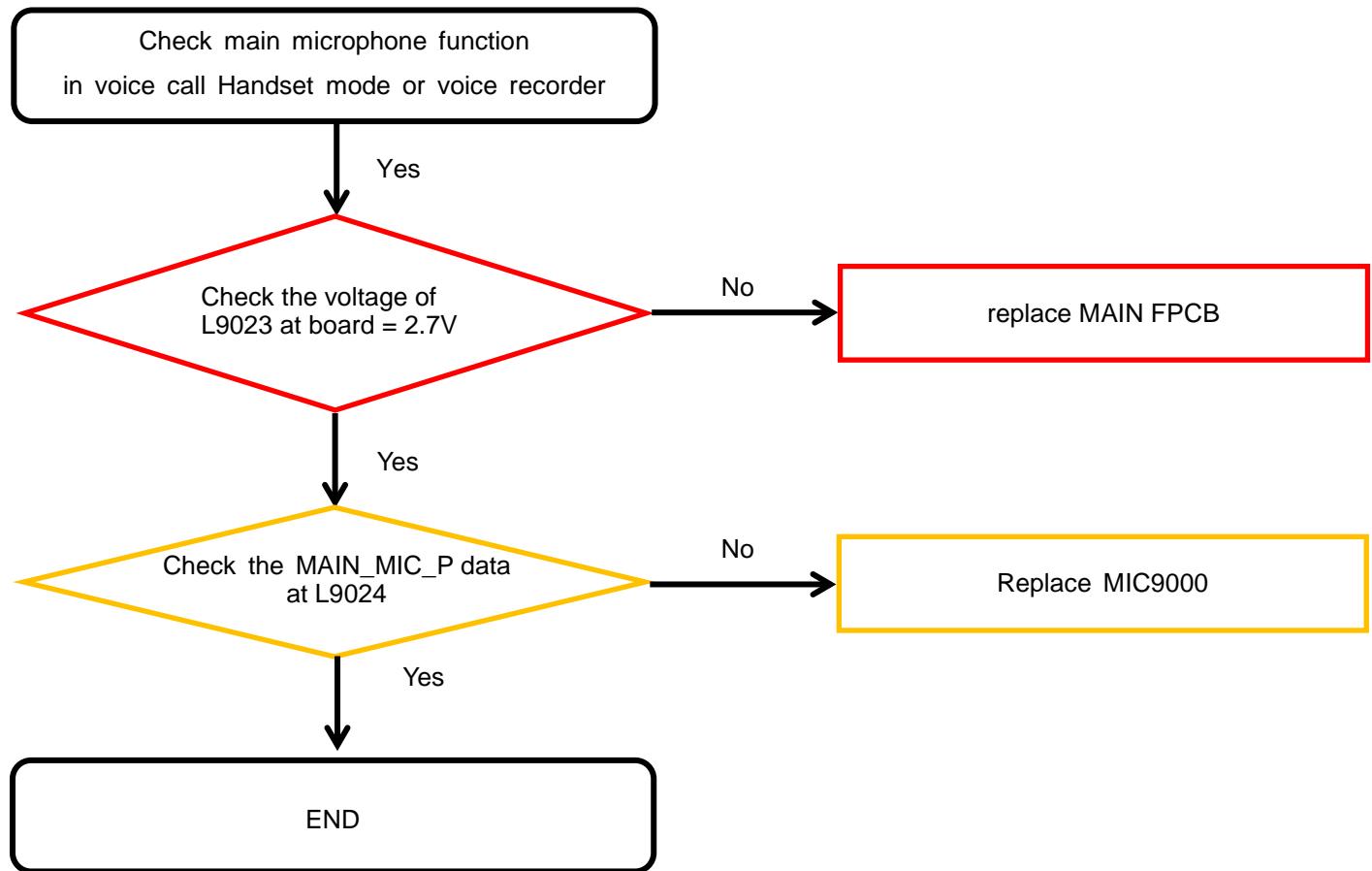
8. Level 3 Repair

8-4-8-5. Fingerprint Sensor



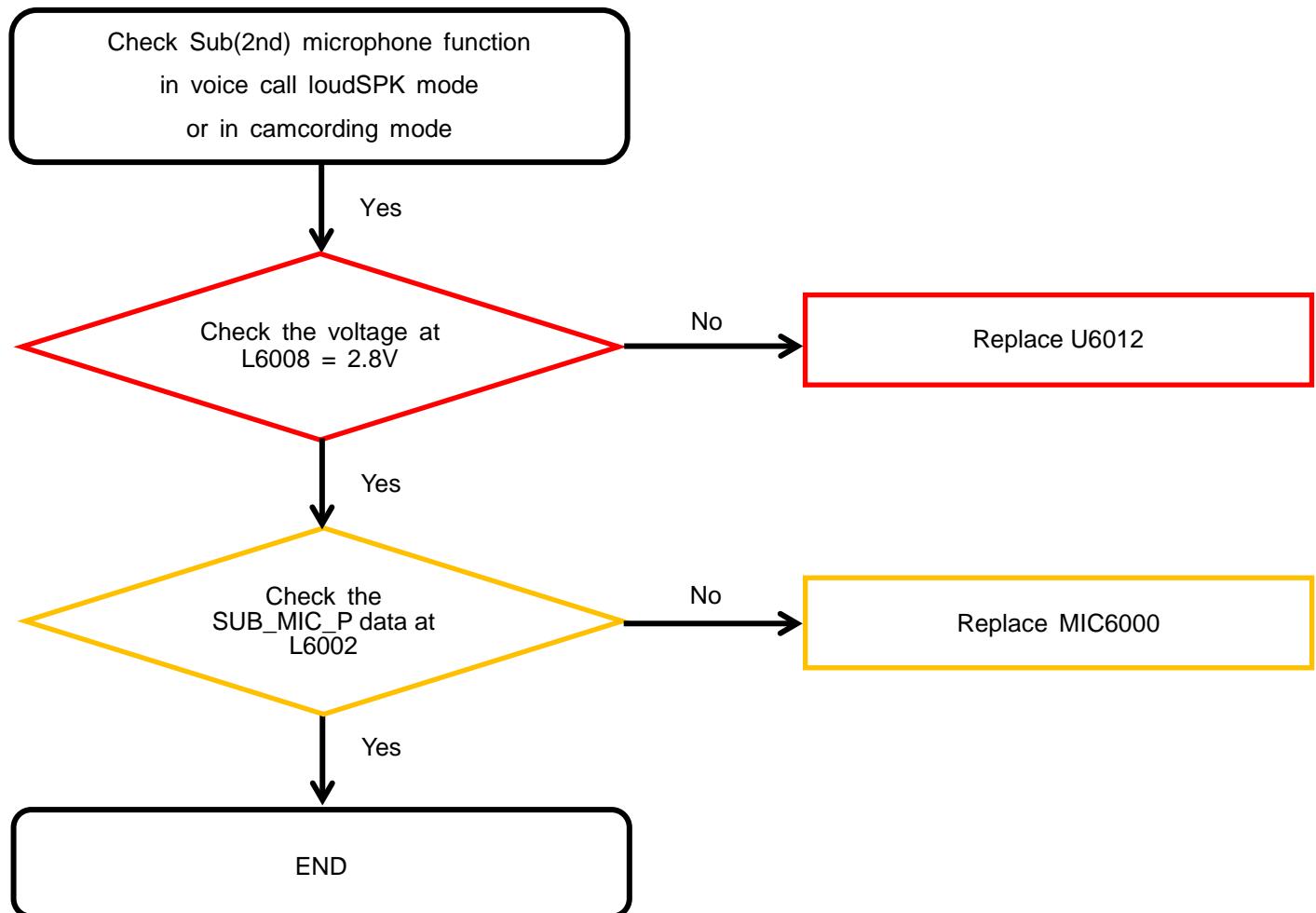
8. Level 3 Repair

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



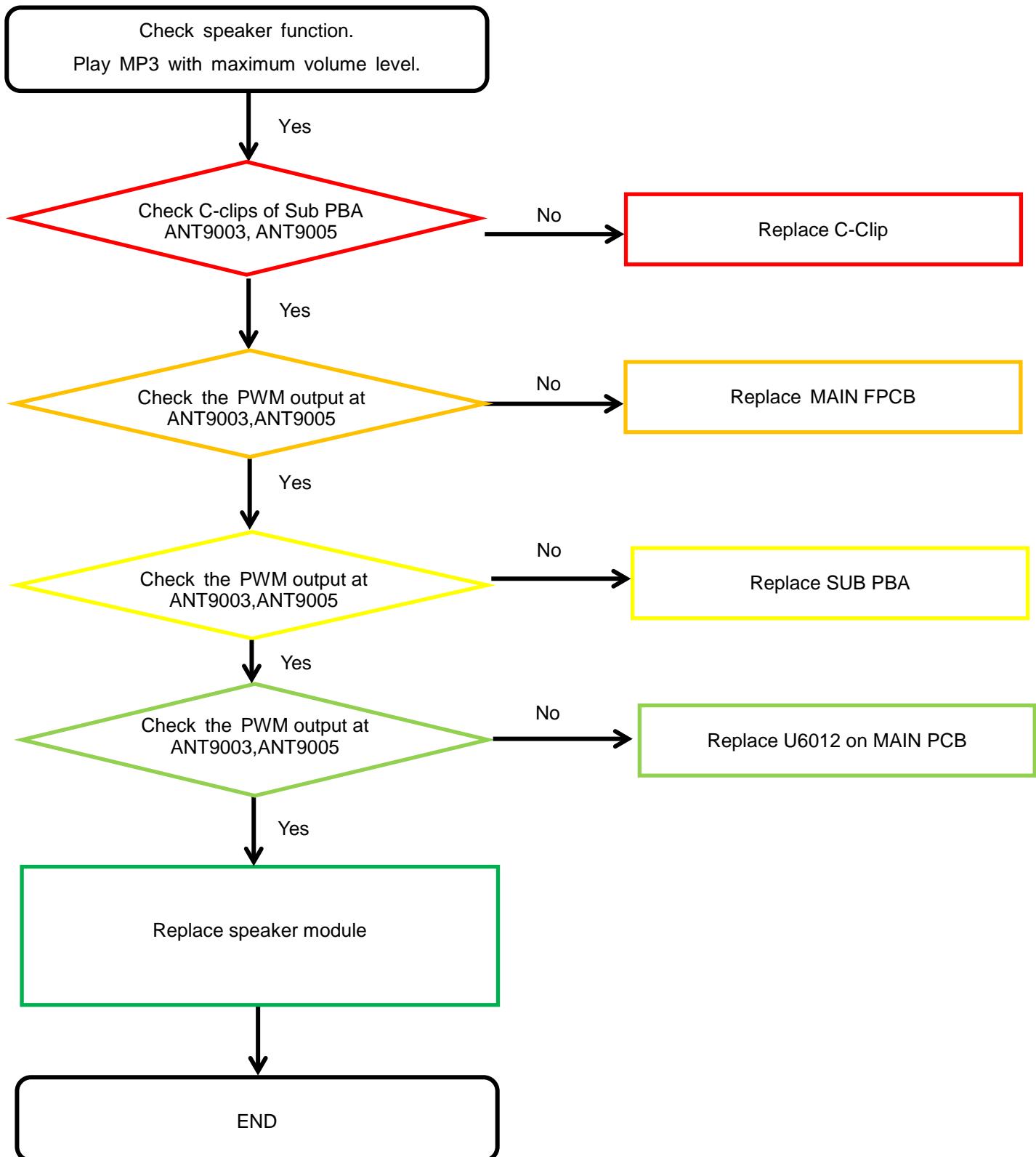
8. Level 3 Repair

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



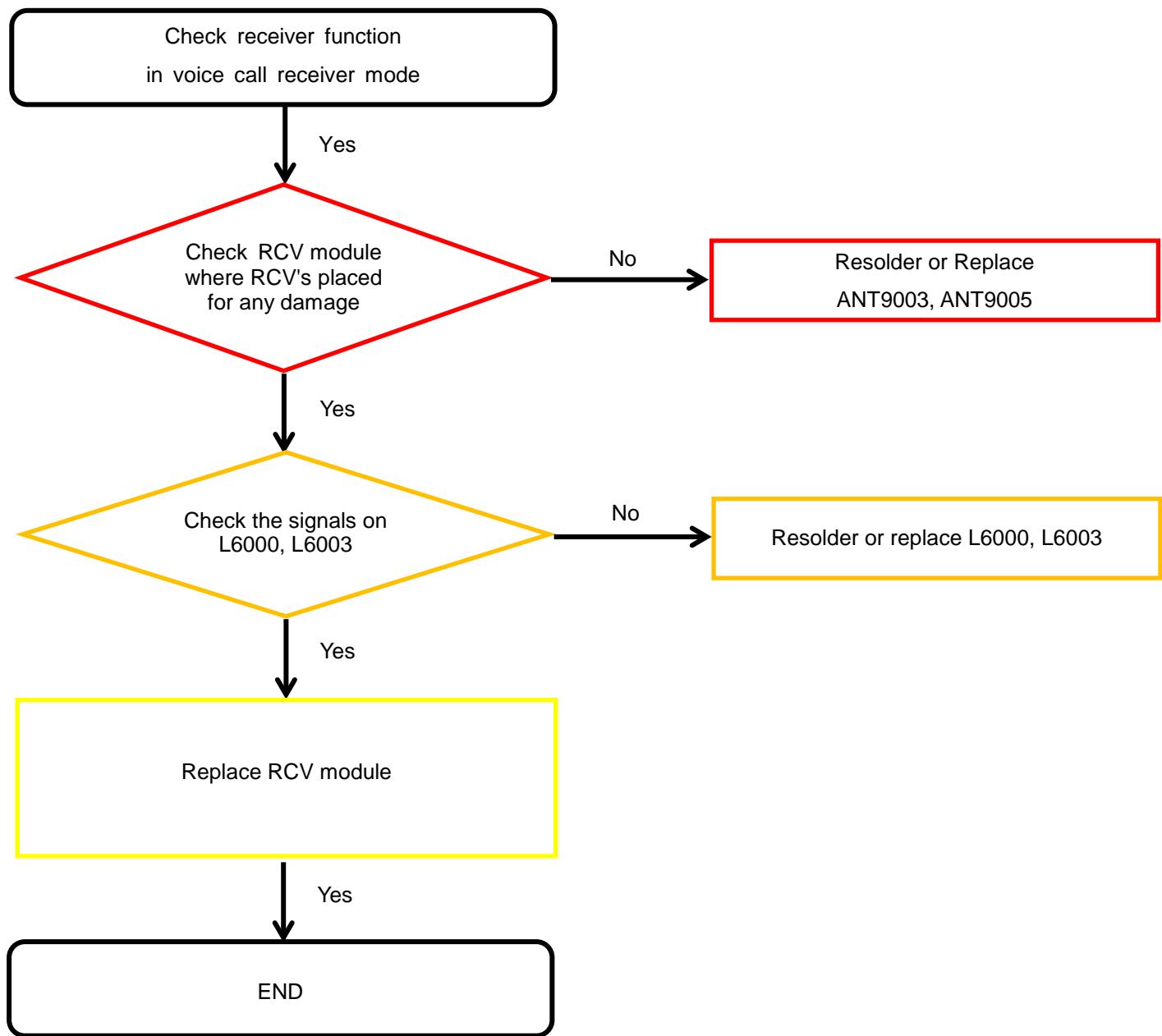
8. Level 3 Repair

8-4-10. Speaker Part



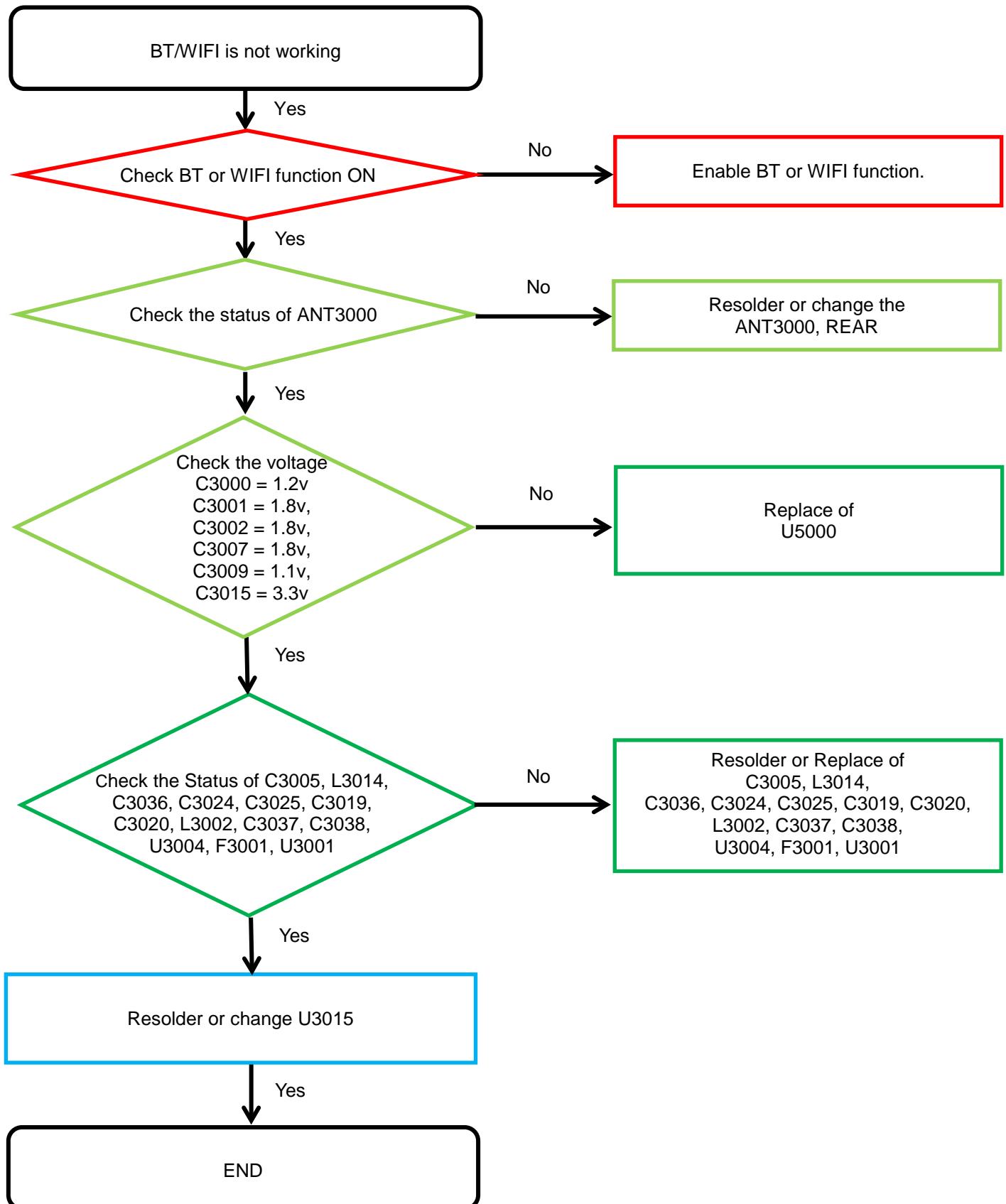
8. Level 3 Repair

8-4-11. Receiver Part



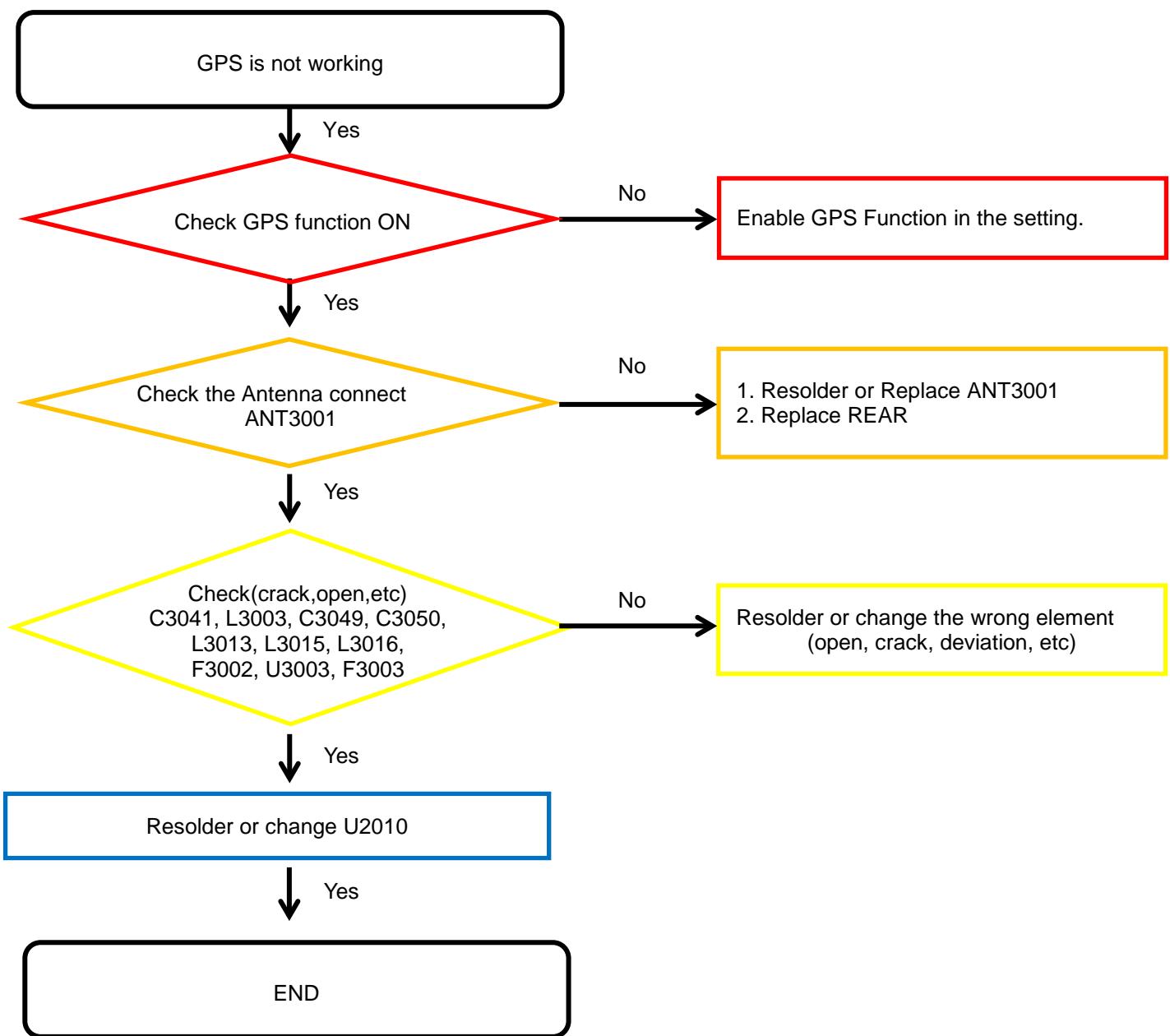
8. Level 3 Repair

8-4-12. BT/WIFI



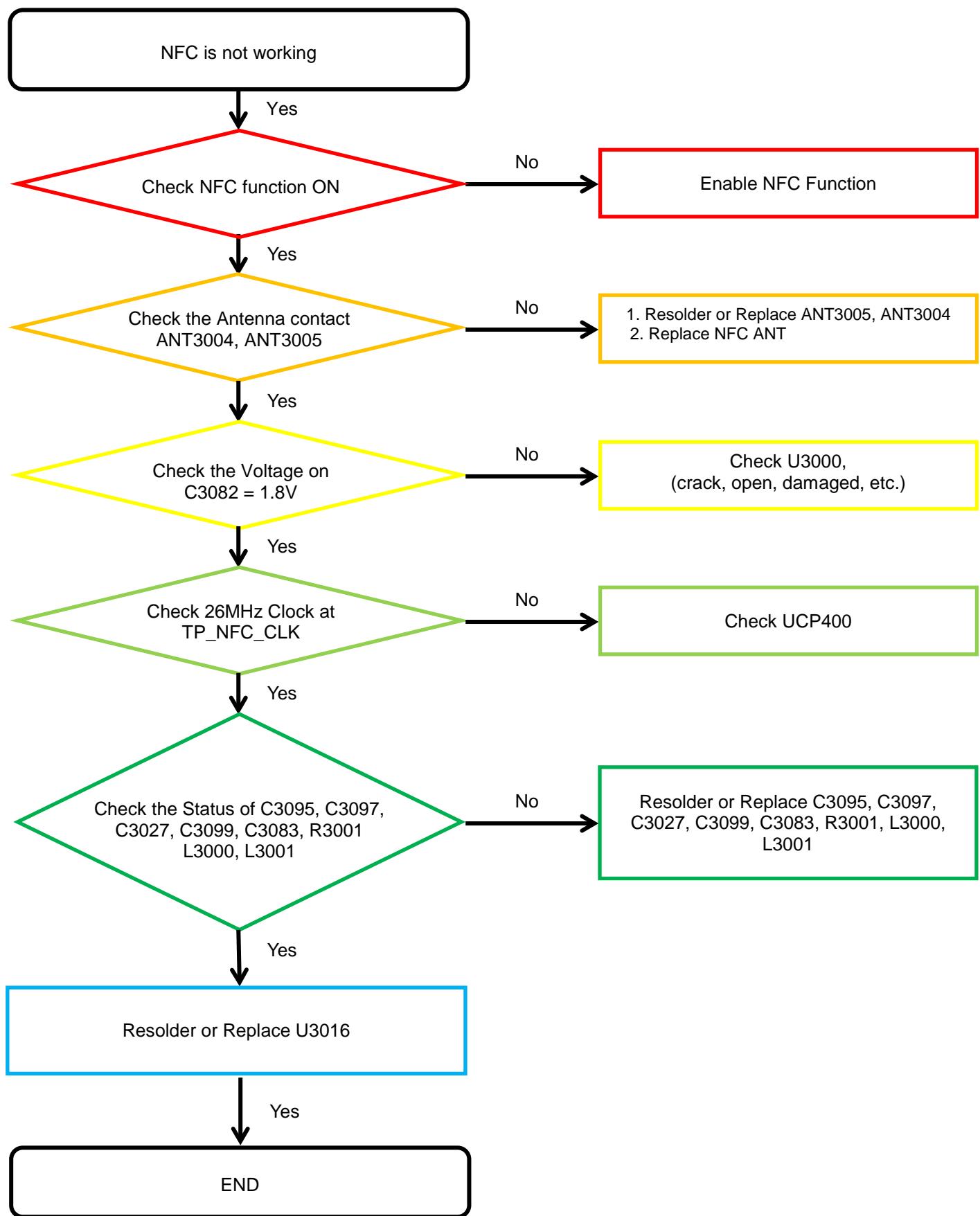
8. Level 3 Repair

8-4-13. GPS



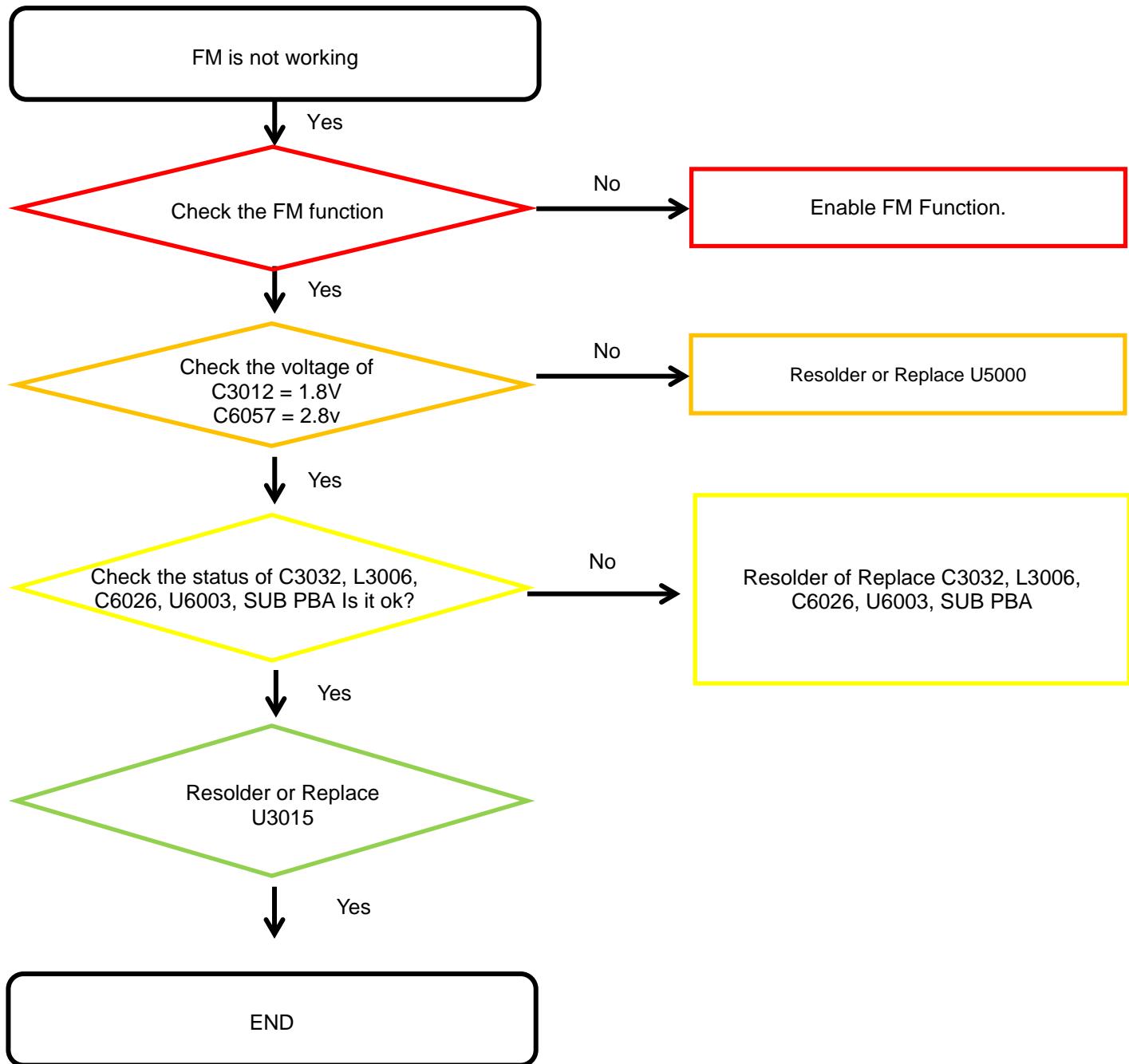
8. Level 3 Repair

8-4-14. NFC



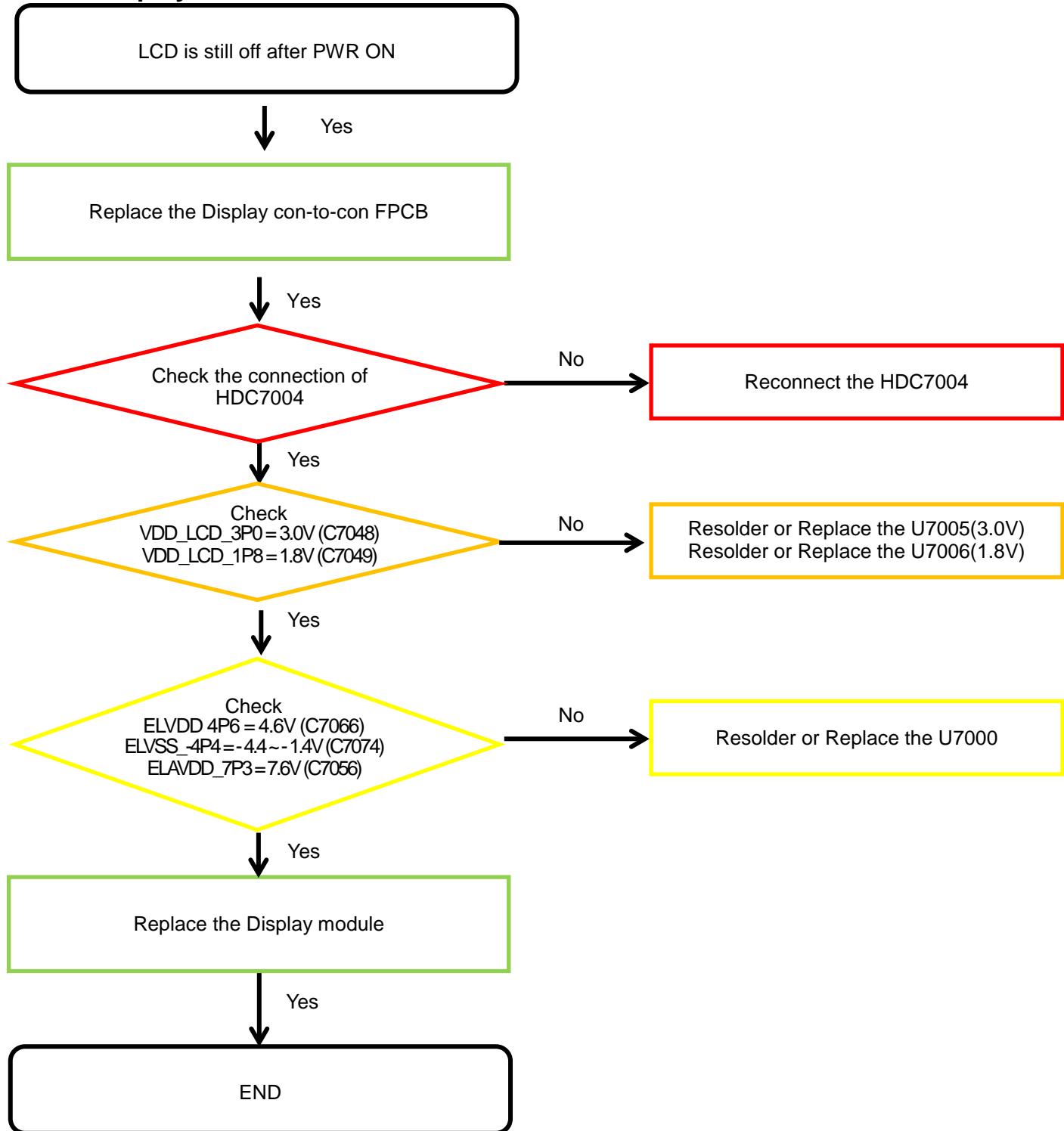
8. Level 3 Repair

8-4-15. FM radio part



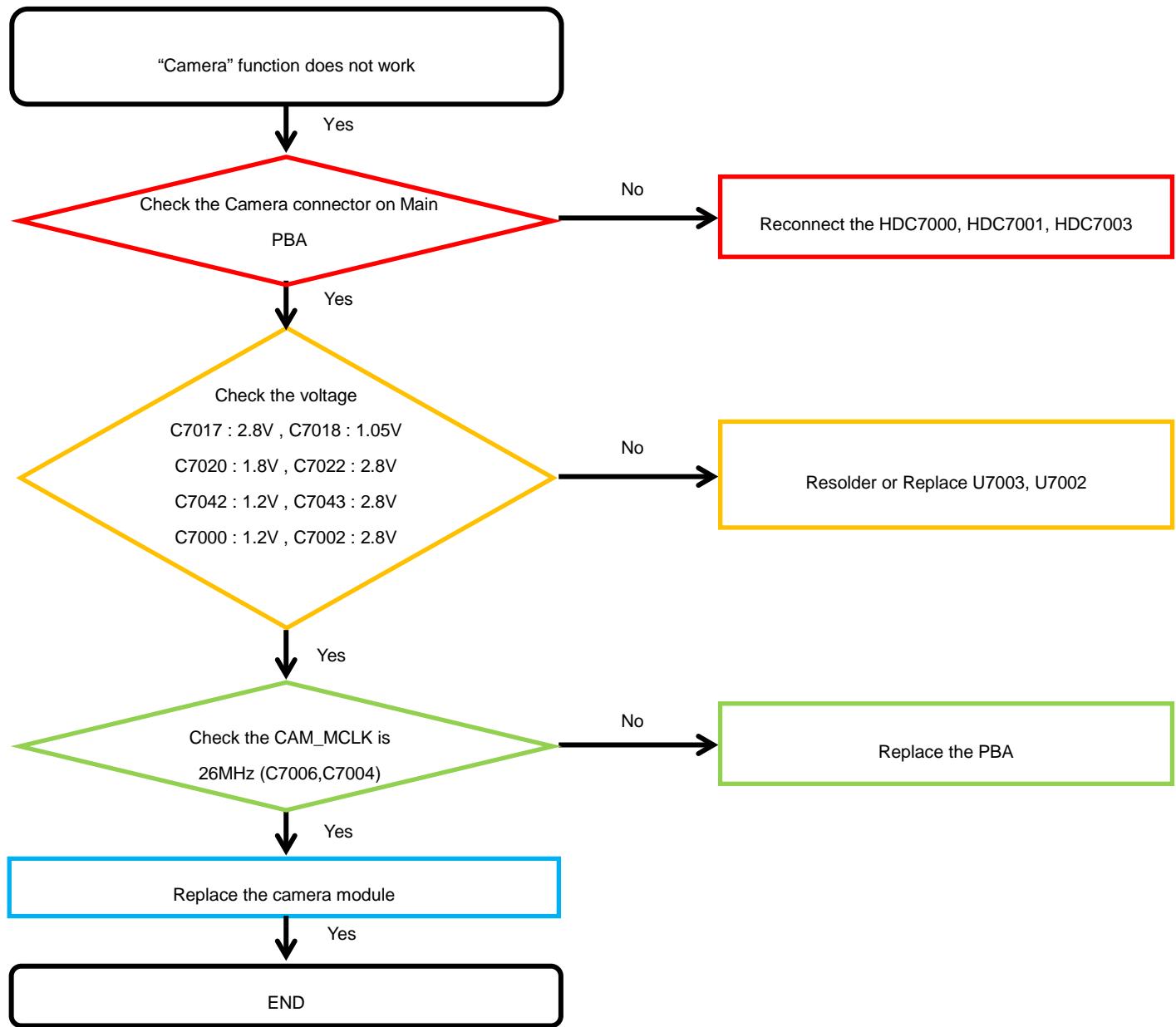
8. Level 3 Repair

8-4-16. Display



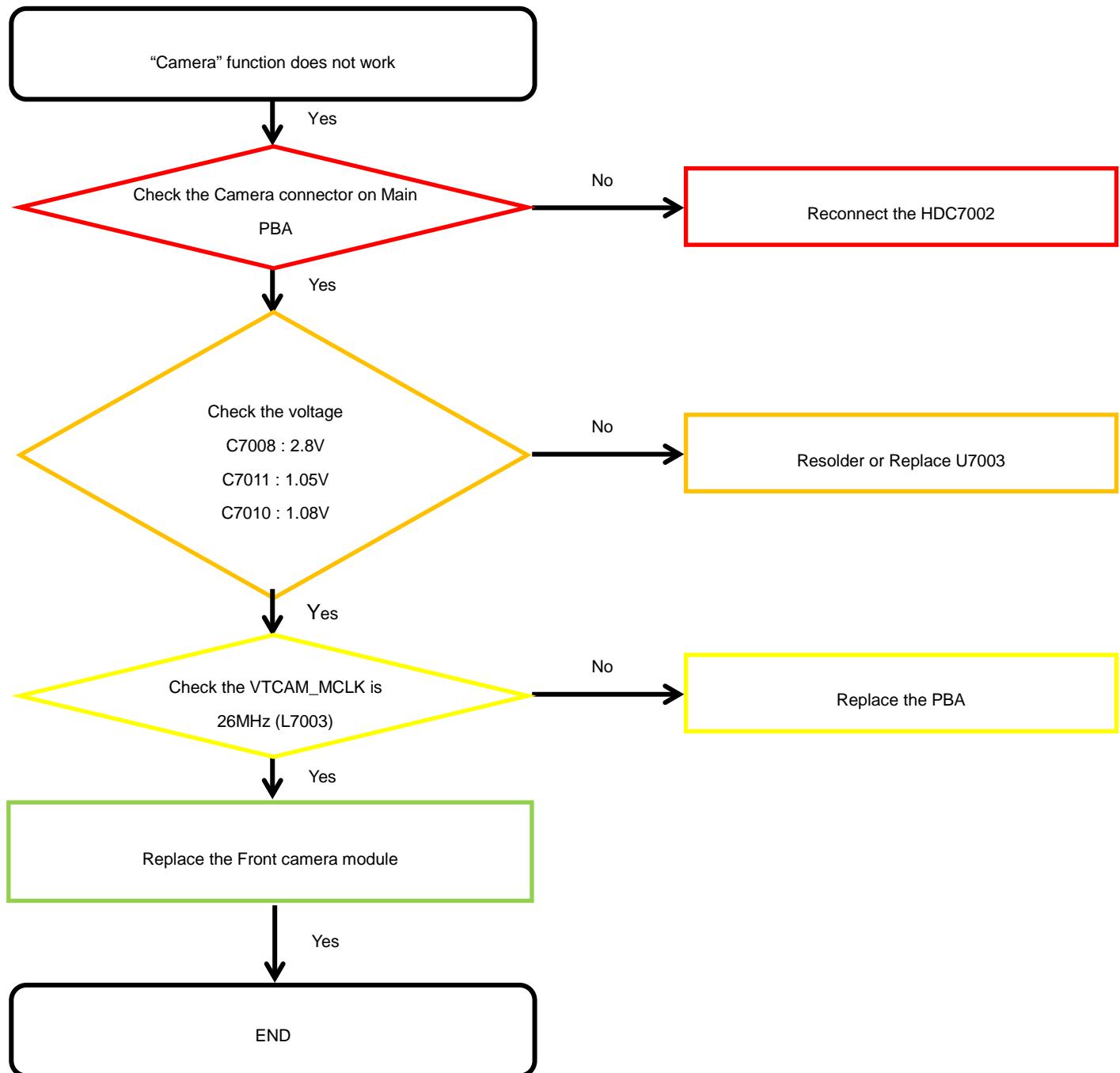
8. Level 3 Repair

8-4-17. Triple Camera



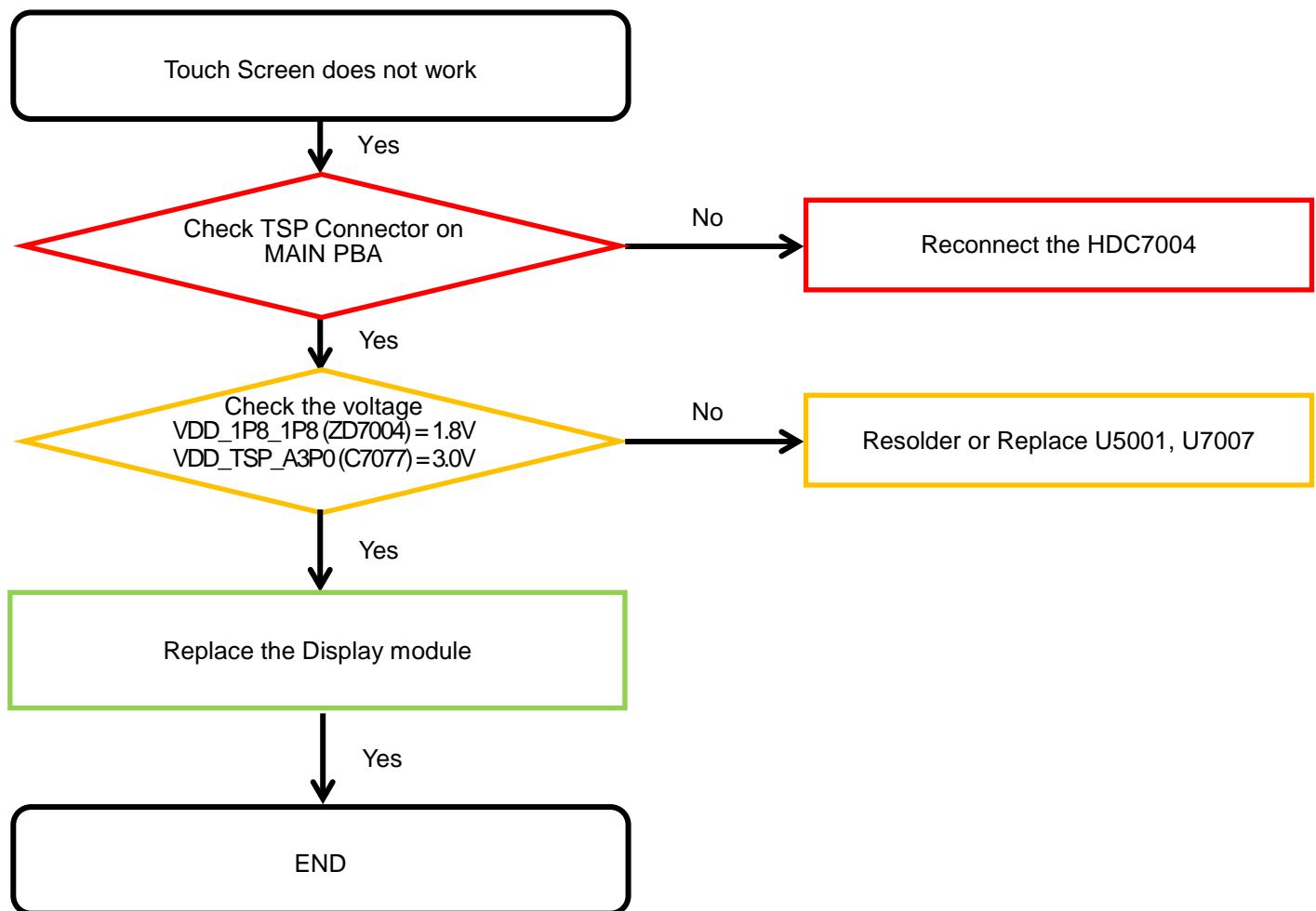
8. Level 3 Repair

8-4-18. VT CAMERA



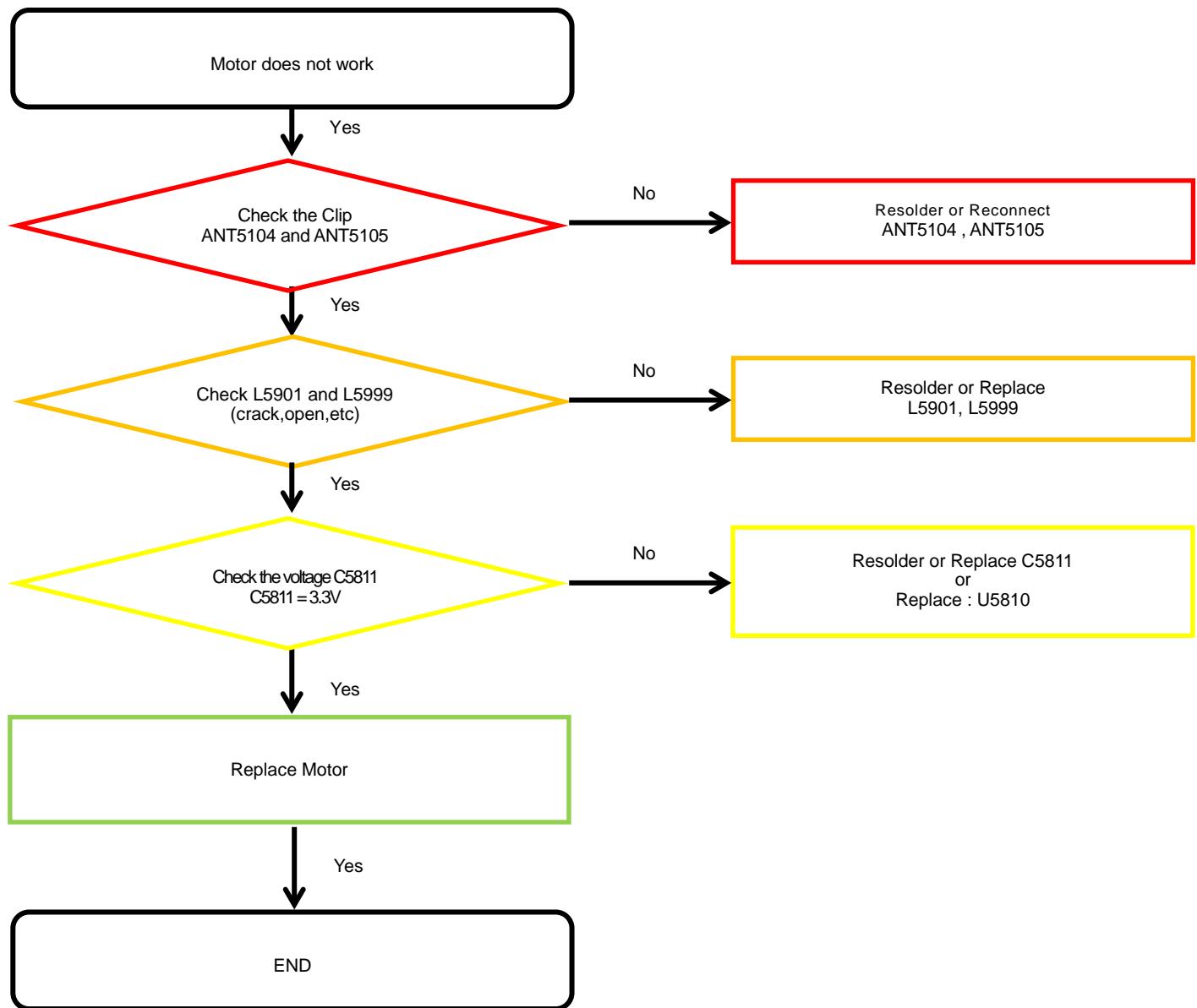
8. Level 3 Repair

8-4-19. TSP



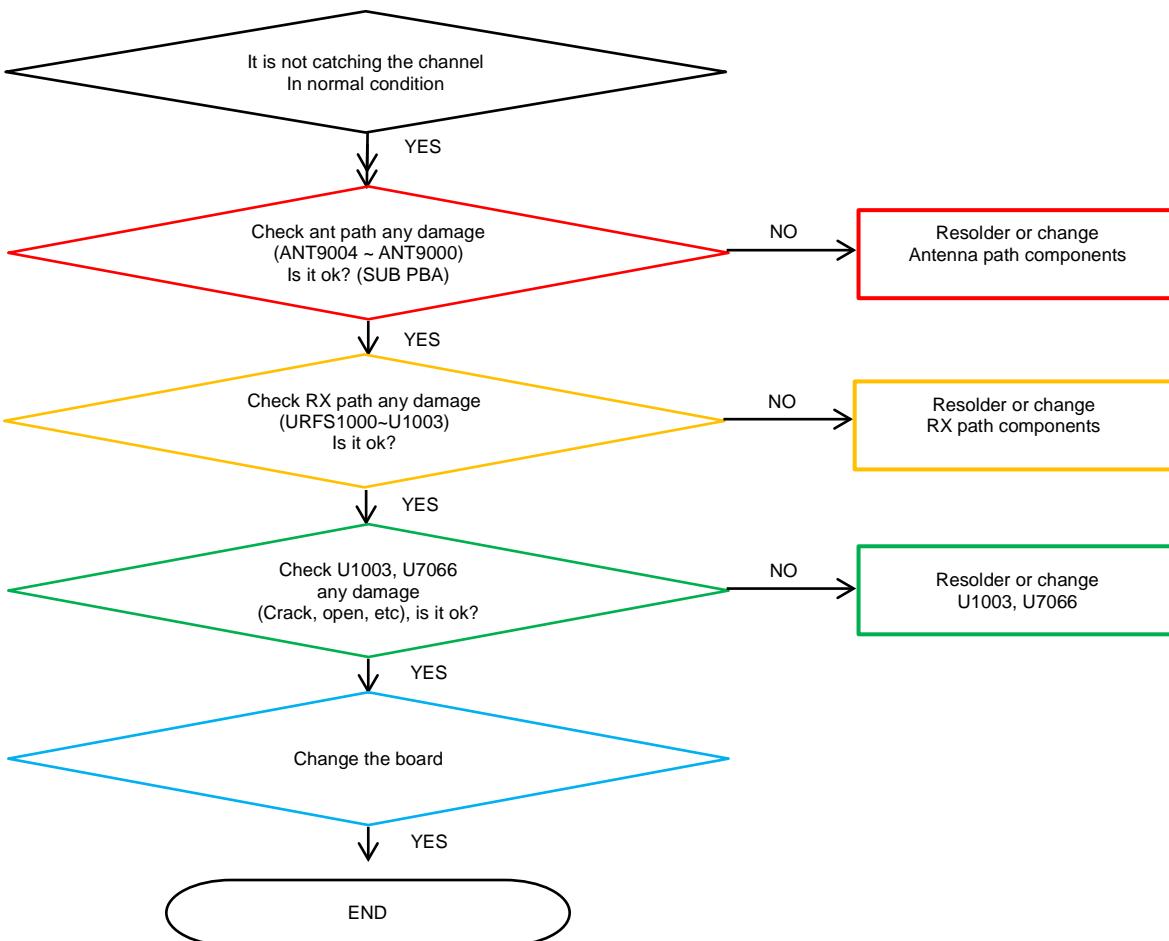
8. Level 3 Repair

8-4-20. Motor



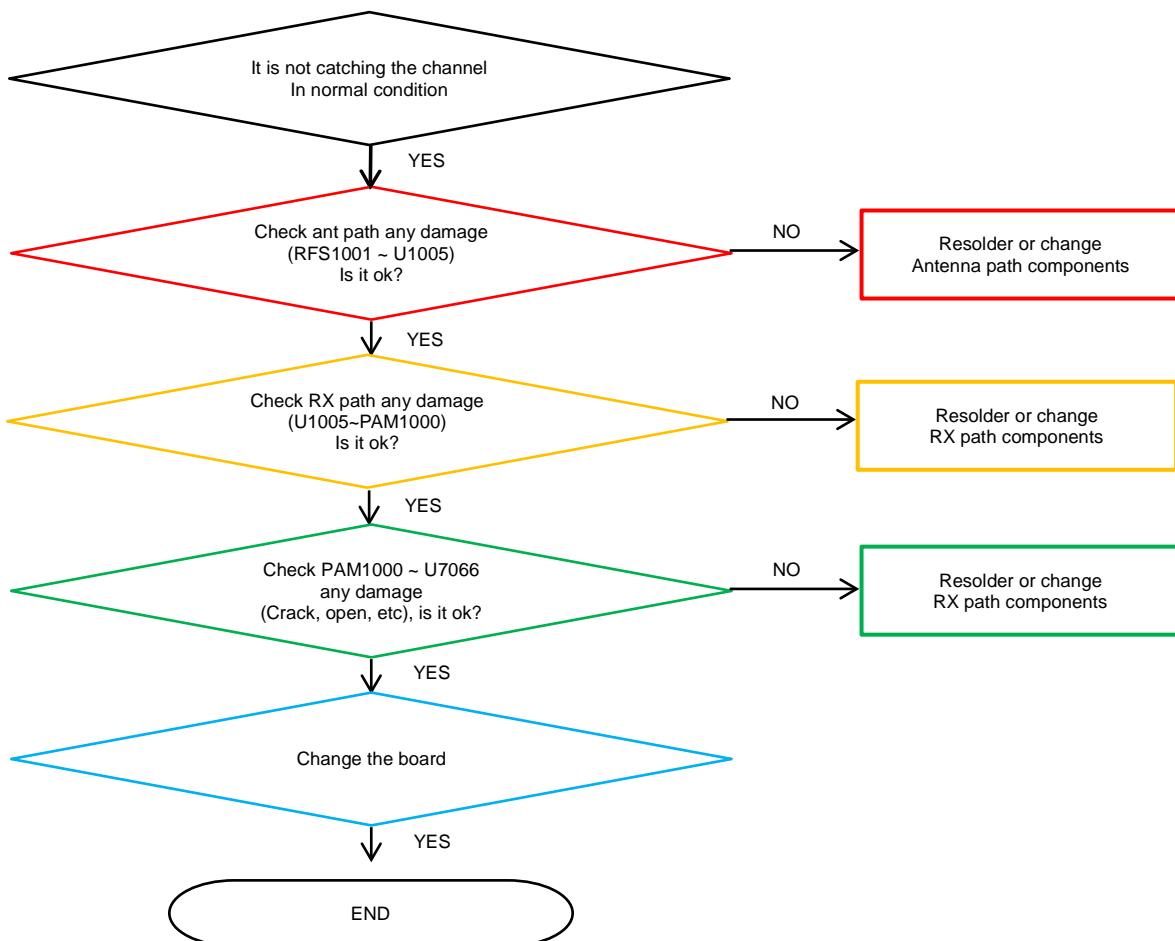
8. Level 3 Repair

8-4-21. GSM 850/900, WCDMA B5/8, LTE B5/8/12/13/17/20/28 PRx



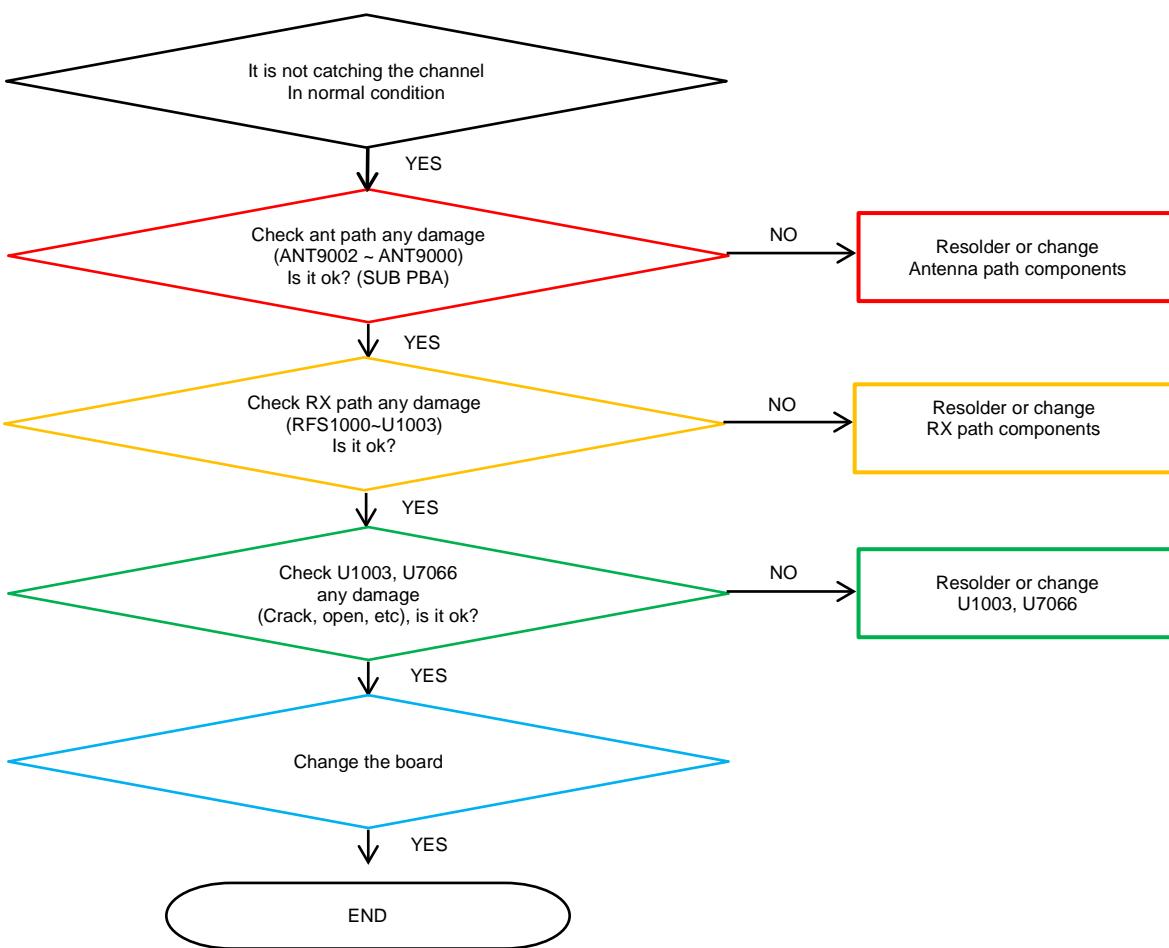
8. Level 3 Repair

8-4-22. LTE B7/38/40/41 PRx



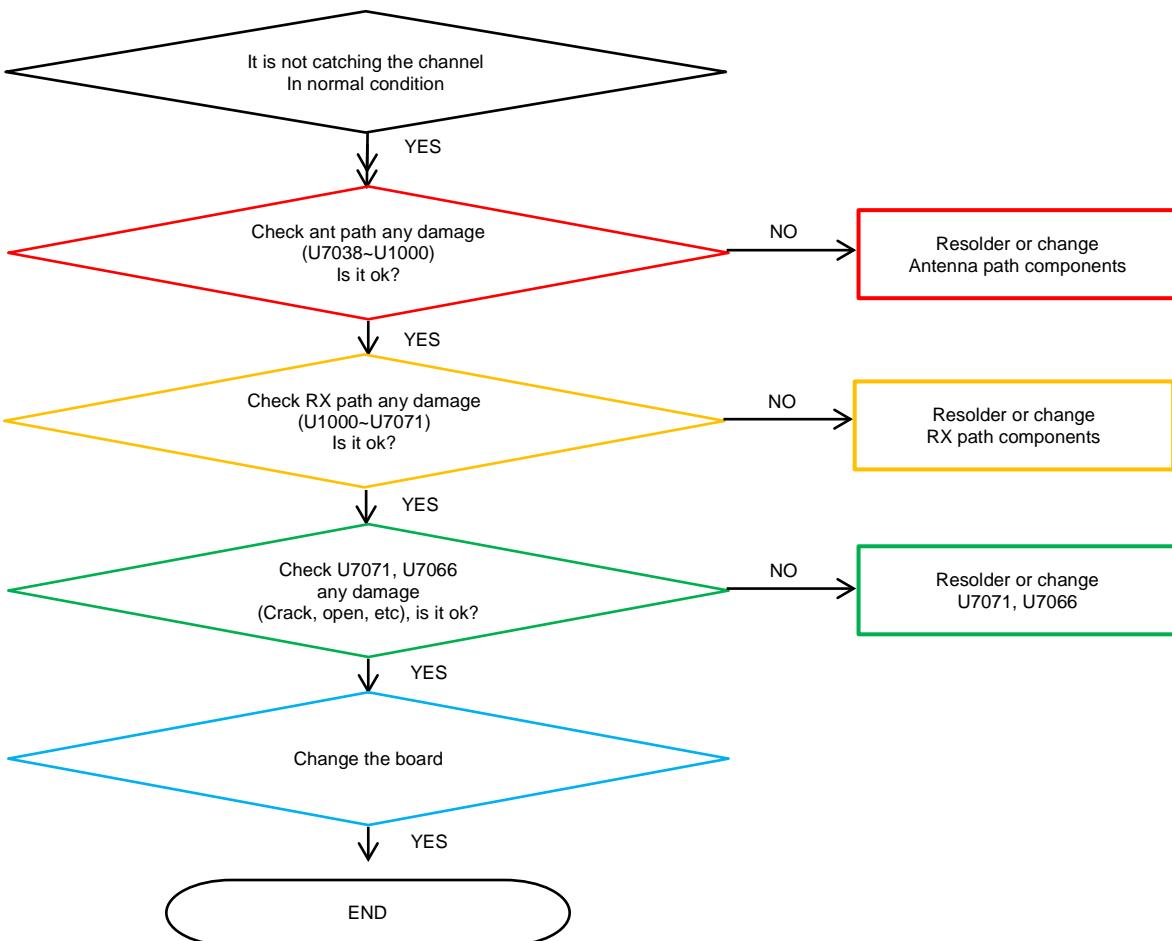
8. Level 3 Repair

8-4-23. GSM DCS/PCS, WCDMA B1/2/4, LTE B1/2/3/4/66 PRx



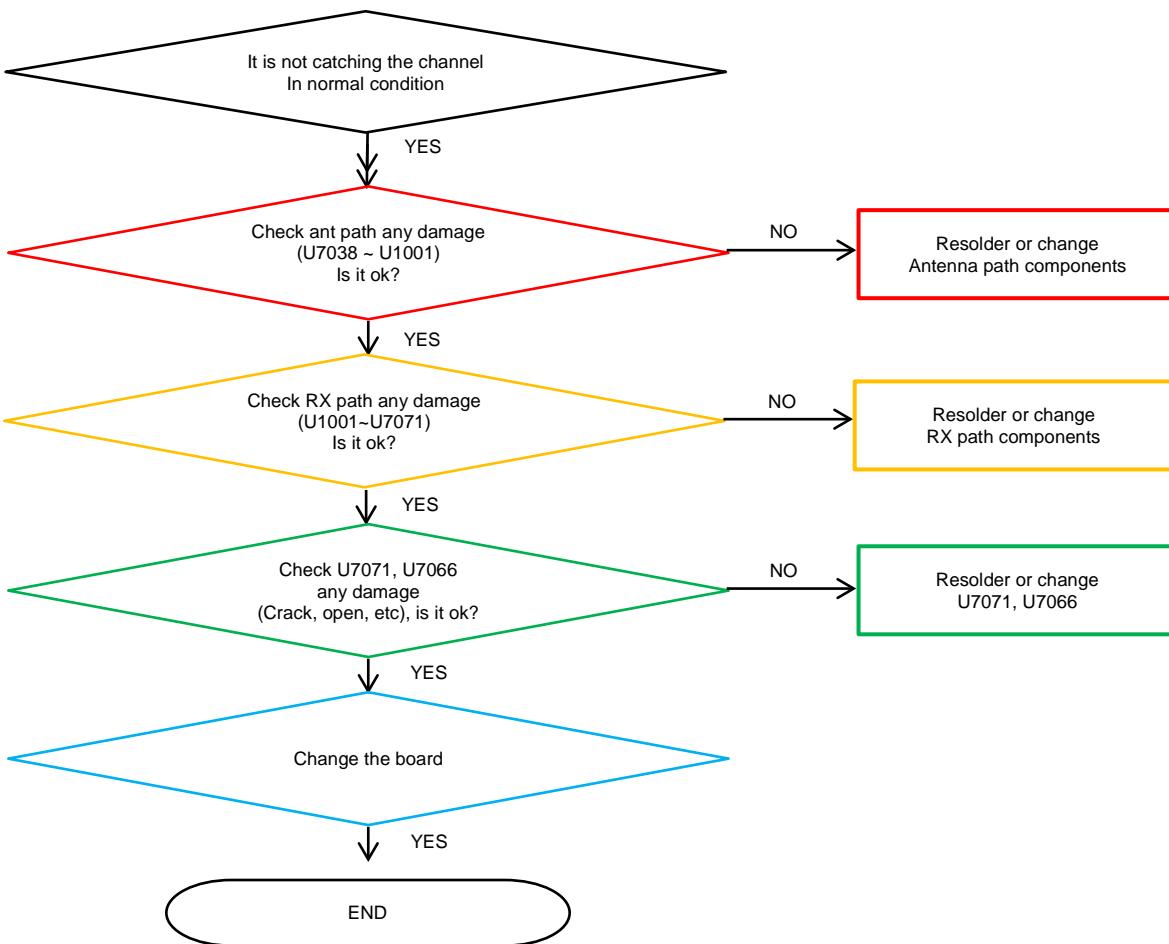
8. Level 3 Repair

8-4-24. GSM 850/900, WCDMA B5/8, LTE B5/8/12/13/17/20/28 DRx



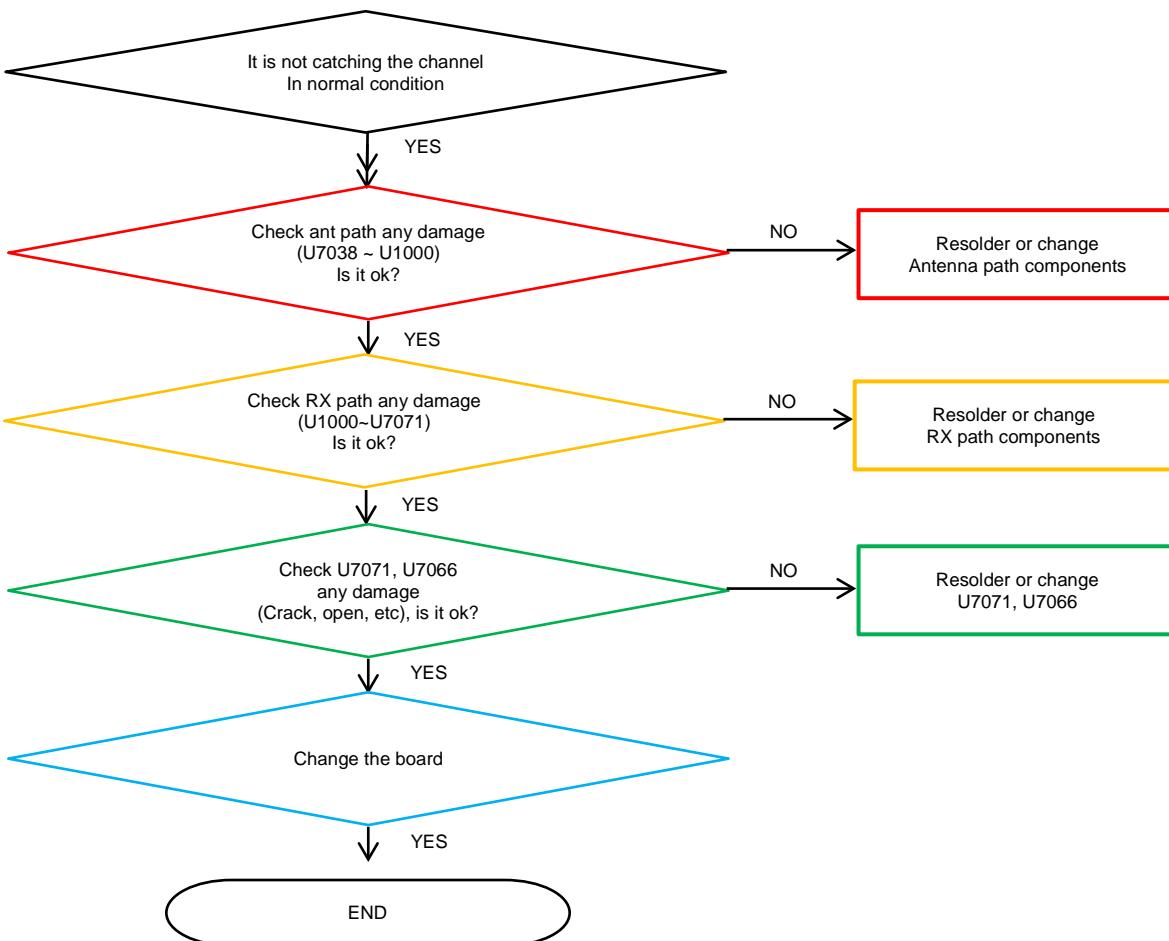
8. Level 3 Repair

8-4-25. LTE B7/38/40/41 DRx



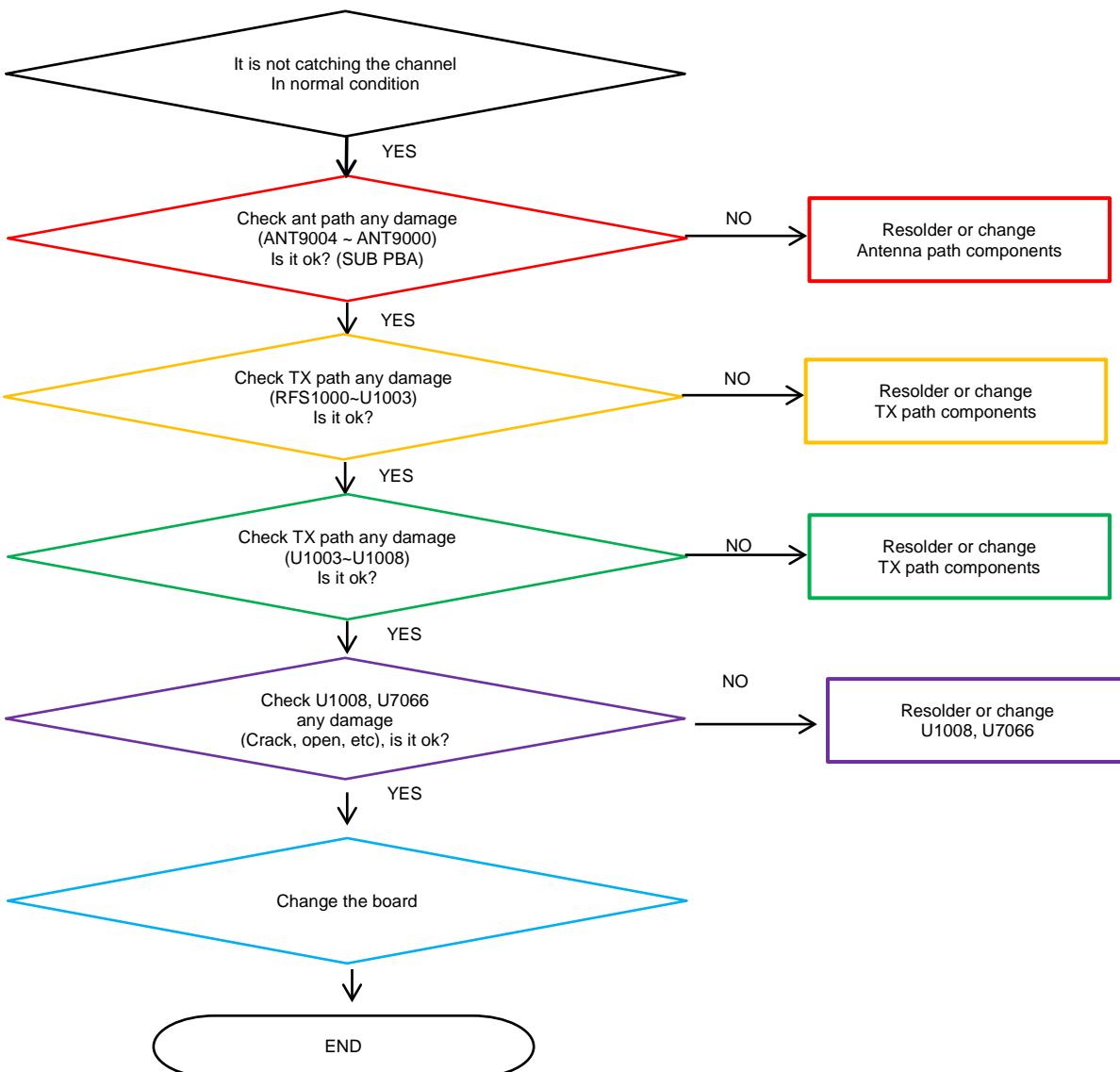
8. Level 3 Repair

8-4-26. GSM DCS/PCS, WCDMA B1/2/4, LTE B1/2/3/4/66 DRx



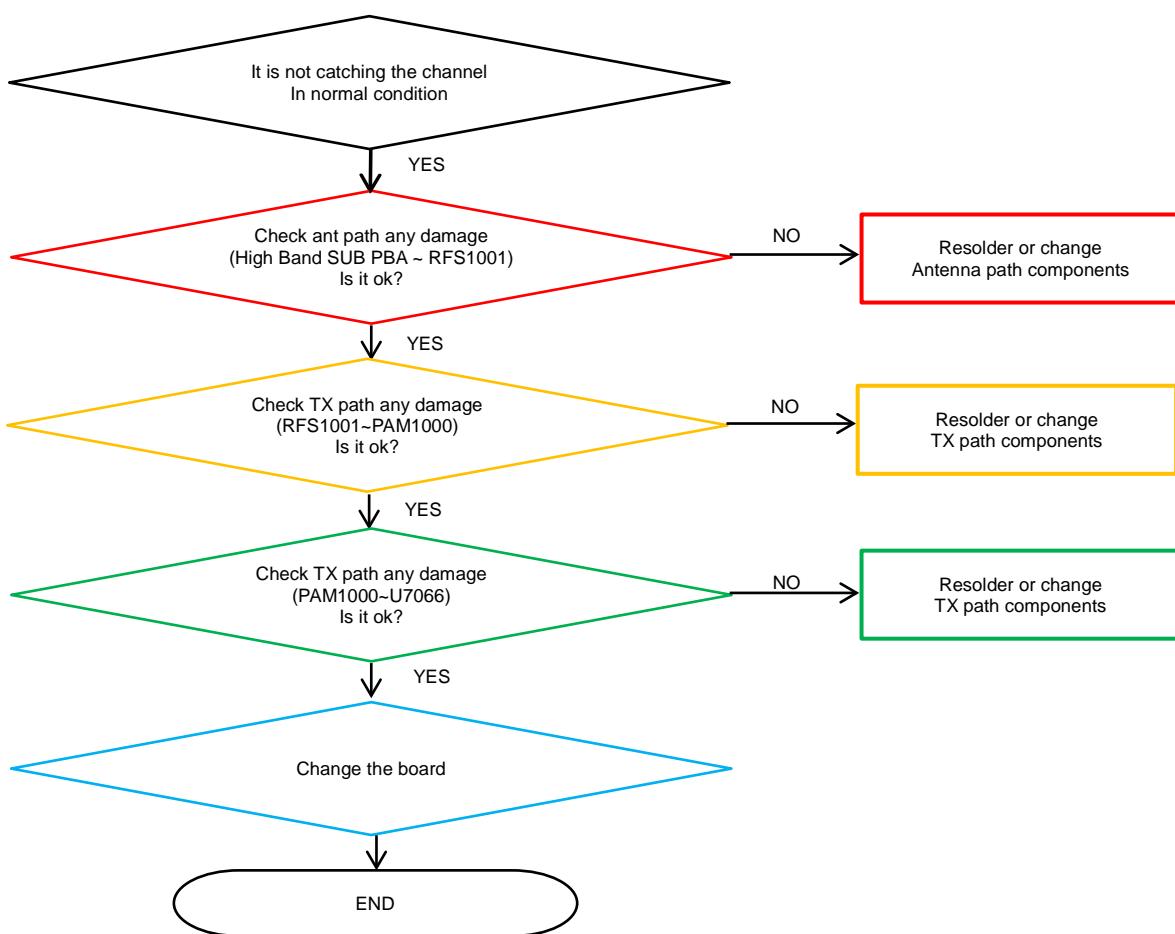
8. Level 3 Repair

8-4-27. GSM 850/900, WCDMA B5/8, LTE B5/8/12/13/17/20/28 TX



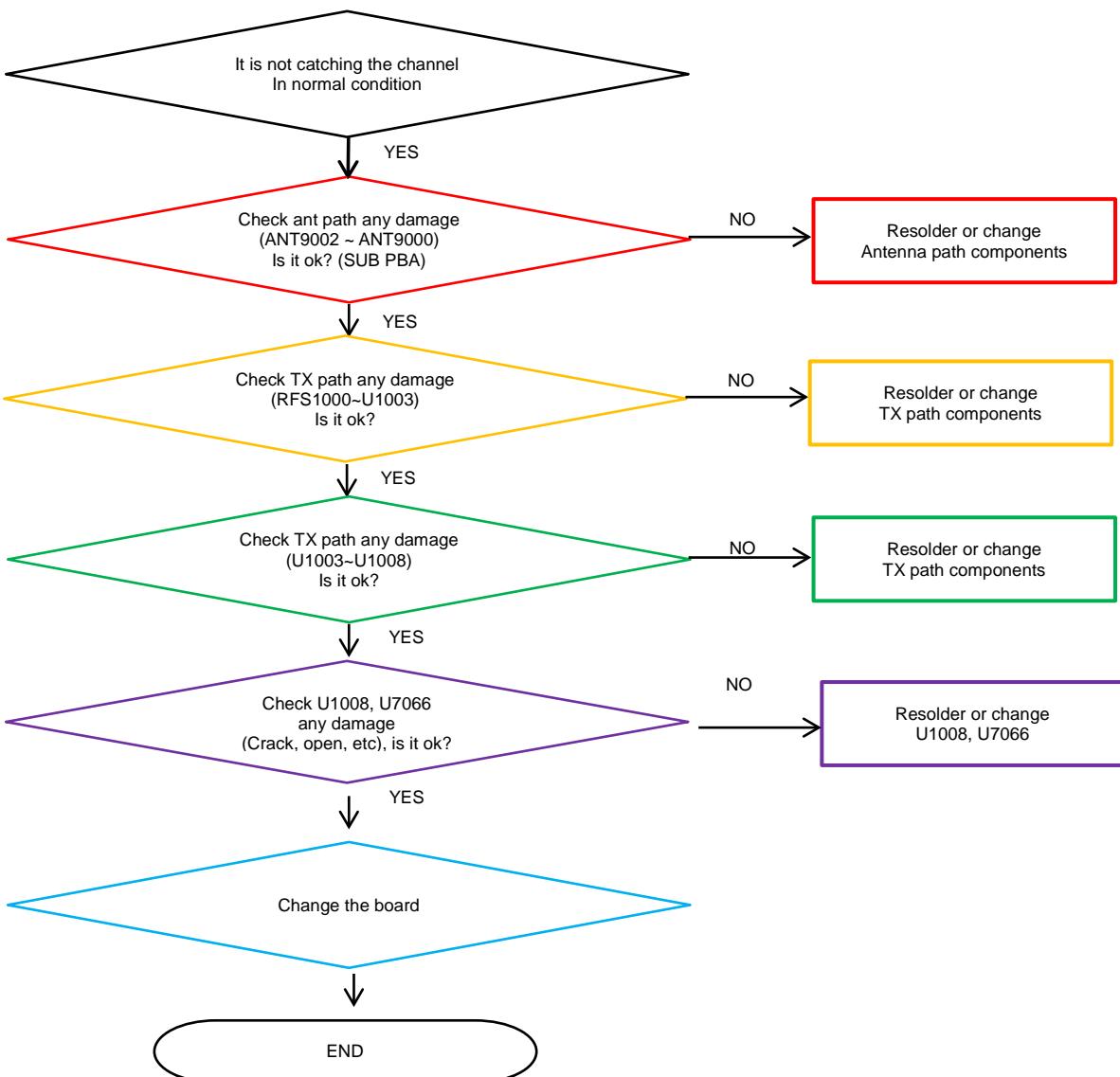
8. Level 3 Repair

8-4-28. LTE B7/38/40/41 Tx



8. Level 3 Repair

8-4-29. GSM DCS/PCS, WCDMA B1/2/4, LTE B1/2/3/4/66 Tx



8. Level 3 Repair

8-5. Service Schematics

- NC Point(Top View)

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | | | | |
|----|----------------------|----------------------|----------------------|----------------------|-------------------------|-----------------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------|----------------|----------------|----------------|----------------|----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------------|------------------|------------------|------------------|------------------------|------------------|------------------|------------------|
| A | VSS | VSS | VSS | XMMC_C ARD_D | XMMC_S ARD_D,CLK | VSS | VDDQ_M EM | VDD2_M EM | VSS | XEINT_19 | XEINT_15 | XEINT_16 | VSS | VDDQ_M EM | XEINT_1 | VDDQ_M EM | VSS | XITDO | XIDBGE L | VDDQ_M EM | VDD2_M EM | VDDQ_M EM | XIDC55CL | XGP1027 | XGP1025 | VSS | VSS | | | | | | |
| B | VSS | VSS | XMMC_C ARD_D,CLK | VSS | XMMC_E ARD_D,CM D | XMMC_E ARD_D,HW RESET | XMMC_E ARD_D,EM | XMMC_E ARD_D,EM | VDD1_M EM | XNWESE T | XEINT_9 | XEINT_10 | XEINT_17 | XEINT_18 | XEINT_13 | XEINT_2 | XEINT_0 | XTRSTN | XITDO | XGP1018 | XGP1023 | XGP1006 | VSS | XIDC45CL | XGP1024 | XWRTSN | XWRTM0 UT_1 | VSS | | | | | |
| C | VSS | VDD2_M EM | XMMC_C ARD_D | XMMC_S ARD_D,CLK | XMMC_S ARD_D,CM D | XMMC_S ARD_D,HW RESET | XMMC_S ARD_D,EM | XMMC_S ARD_D,EM | XNRESET | XPWRG TON,CO N | VSS | XEINT_8 | XEINT_7 | VSS | XEINT_21 | XEINT_20 | XEINT_5 | VSS | XITCK | XITMS | XGP1019 | XGP1020 | XIDC45D A | XGP1017 | XGP1024 | XU0CTSN | XU0RDS | VDD2_M EM | | | | | |
| D | XUSB20D P | VDDQ_M EM | XMMC_C ARD_D | XMMC_C ARD_D,CLK | XMMC_S ARD_D,CM D | XMMC_S ARD_D,HW RESET | XMMC_S ARD_D,EM | XMMC_S ARD_D,EM | XPWRG TON,SUB | XPSHOLD | XEINT_12 | XEINT_11 | XEINT_14 | XEINT_6 | XEINT_4 | XOM_3 | XOM_0 | XOM_1 | XGP1016 | XGP1015 | XGP1010 | XIDC65D A | XIDC65CL | XURTHD | XU0RDS | XWLT_W LDA,TKO P | VDD2_M EM | | | | | | |
| E | XUSB20D P | VSS | XMMC_C ARD_D | XMMC_C ARD_D,CLK | | | | | | | | | | | | | | | | | | | | | | | XWRTM0 UT_0 | XMR_SPD Y | VSS | XWLT_W LDA,TKO P | | | |
| F | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | | | | |
| G | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | | | | |
| H | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | XURTHD | | | | |
| I | VDDQ_M EM | VDDQ_M EM | VSS | XADQ1A N,D | VSS | VDD018 PLL,USB | VDD018 PLL,PHY | VSS | VDD_P | VDDQ18 DRAM | VDDQ18 DRAM | VDD_P | VDD_MIF | VDD006_P | VDDQ18 DRAM | VDD18_R TC | XEINT_22 | XCLKOUT | XKPD01 | XKPD017 | XKPD01 | XKPD017 | XKPD01 | XKPD017 | XKPD01 | XKPD017 | XKPD01 | XKPD017 | XKPD01 | XKPD017 | XKPD01 | XKPD017 | |
| J | VDDQ_M EM | VDDQ_M EM | VSS | XADQ1A N,D | VSS | VDD018 PLL,USB | VDD018 PLL,PHY | VSS | VDD_P | VDDQ18 DRAM | VDDQ18 DRAM | VDD_P | VDD_MIF | VDDQ18 DRAM | VDDQ18 DRAM | VDD18_R TC | XEINT_23 | XCLKOUT | VDD008_A LIVE | VSS | XGP104 | XGP1025 | VDD008_A LIVE | VSS | VDD008_A LIVE | VSS | VDD008_A LIVE | VSS | VDD008_A LIVE | VSS | VDD008_A LIVE | VSS | VDD008_A LIVE |
| K | XADQ1A N,D | XADQ1A N,D | XADQ1A N,D | XADQ1A N,D | XADQ1A N,D | VDD018 PLL,USB | VDD018 PLL,PHY | VSS | VDD_P | VDDQ18 DRAM | VDDQ18 DRAM | VDD_P | VDD_MIF | VDD008_P | VDDQ18 DRAM | VDD18_R TC | XEINT_24 | XCLKOUT | VDD008_A LIVE | VSS | VDD008_A LIVE | VSS | VDD008_A LIVE | VSS | VDD008_A LIVE | VSS | VDD008_A LIVE | VSS | VDD008_A LIVE | | | | |
| L | XADQ1A N,D | XADQ1A N,D | XADQ1A N,D | XADQ1A N,D | XADQ1A N,D | VDD009_U S30,PHY | VSS | VDD_P | VDDQ18 DRAM | VDDQ18 DRAM | VDD_P | VDD_MIF | VDD009_P | VDDQ18 DRAM | VDD18_R TC | XEINT_25 | XCLKOUT | VDD008_A LIVE | VSS | XGP104 | XGP1025 | VDD008_A LIVE | VSS | VDD008_A LIVE | VSS | VDD008_A LIVE | VSS | VDD008_A LIVE | VSS | VDD008_A LIVE | | | |
| M | VSS | XGP109 | XGP1014 | XGP1013 | XGP1013 | VDD018 PLL,USB | VDD018 PLL,PHY | VSS | VDD_P | VDDQ18 DRAM | VDDQ18 DRAM | VDD_P | VDD_MIF | VDD008_P | VDDQ18 DRAM | VDD18_R TC | XEINT_26 | XCLKOUT | VDD008_A LIVE | VSS | VDD008_A LIVE | VSS | VDD008_A LIVE | VSS | VDD008_A LIVE | VSS | VDD008_A LIVE | VSS | VDD008_A LIVE | | | | |
| N | XQ11_MC LK | XQ11_MC LK | XQ11_MC LK | XQ11_MC LK | XQ11_MC LK | VDD018_P RADC | VDD018_P GPADC | VDD018_P INT_M | VDDQ18 DRAM | VDDQ18 DRAM | VDD_P | VDD_MIF | VDD008_P | VDDQ18 DRAM | VDD18_R TC | XEINT_27 | XCLKOUT | VDD008_A LIVE | VSS | VDD008_A LIVE | VSS | VDD008_A LIVE | VSS | VDD008_A LIVE | VSS | VDD008_A LIVE | VSS | VDD008_A LIVE | | | | | |
| P | XSPHS02 CSCL | XSPHS02 CSCL | XSPHS02 CSCL | XSPHS02 CSCL | XSPHS02 CSCL | VSS | VDD_P | VDDQ18 DRAM | VDDQ18 DRAM | VDD_P | VDD_MIF | VDD008_P | VDDQ18 DRAM | VDD18_R TC | XEINT_28 | XCLKOUT | VDD008_A LIVE | VSS | VDD008_A LIVE | | | | | | |
| R | XSPHS02 CS03A | XSPHS02 CS03A | XSPHS02 CS03A | XSPHS02 CS03A | XSPHS02 CS03A | VDDQ18 EXT1 | XGP1028 | VDDQ18 EXT1 | VDDQ18 EXT1 | VDDQ18 EXT1 | VDD_P | VDD_MIF | VDD008_P | VDDQ18 DRAM | VDD18_R TC | XEINT_29 | XCLKOUT | VDD008_A LIVE | VSS | VDD008_A LIVE | VSS | VDD008_A LIVE | VSS | VDD008_A LIVE | VSS | VDD008_A LIVE | VSS | VDD008_A LIVE | | | | | |
| T | VSS | XSPHS02 | XSPHS02 | XSPHS02 | XSPHS02 | VDD018 MPLD_P | VDD018 MPLD_P | VDD018 MPLD_P | VDDQ18 EXT1 | VDDQ18 EXT1 | VDD_P | VDD_MIF | VDD008_P | VDDQ18 DRAM | VDD18_R TC | XEINT_30 | XCLKOUT | VDD008_A LIVE | VSS | VDD008_A LIVE | VSS | VDD008_A LIVE | VSS | VDD008_A LIVE | VSS | VDD008_A LIVE | VSS | VDD008_A LIVE | | | | | |
| U | VDD18_R 14L,D1,N | VDD18_R 14L,D1,N | VDD18_R 14L,D1,N | VDD18_R 14L,D1,N | VDD18_R 14L,D1,N | VDD_P | VDDQ18 EXT1 | VDDQ18 EXT1 | VDDQ18 EXT1 | VDDQ18 EXT1 | VDD_P | VDD_MIF | VDD008_P | VDDQ18 DRAM | VDD18_R TC | XEINT_31 | XCLKOUT | VDD008_A LIVE | VSS | VDD008_A LIVE | VSS | VDD008_A LIVE | VSS | VDD008_A LIVE | VSS | VDD008_A LIVE | VSS | VDD008_A LIVE | | | | | |
| V | VDD18_R 14L,D1,N | VDD18_R 14L,D1,N | VDD18_R 14L,D1,N | VDD18_R 14L,D1,N | VDD18_R 14L,D1,N | VDD_P | VDDQ18 EXT1 | VDDQ18 EXT1 | VDDQ18 EXT1 | VDDQ18 EXT1 | VDD_P | VDD_MIF | VDD008_P | VDDQ18 DRAM | VDD18_R TC | XEINT_32 | XCLKOUT | VDD008_A LIVE | VSS | VDD008_A LIVE | VSS | VDD008_A LIVE | VSS | VDD008_A LIVE | VSS | VDD008_A LIVE | VSS | VDD008_A LIVE | | | | | |
| W | VDD18_R 14L,D1,N | VDD18_R 14L,D1,N | VDD18_R 14L,D1,N | VDD18_R 14L,D1,N | VDD18_R 14L,D1,N | VDD_P | VDDQ18 EXT1 | VDDQ18 EXT1 | VDDQ18 EXT1 | VDDQ18 EXT1 | VDD_P | VDD_MIF | VDD008_P | VDDQ18 DRAM | VDD18_R TC | XEINT_33 | XCLKOUT | VDD008_A LIVE | VSS | VDD008_A LIVE | VSS | VDD008_A LIVE | VSS | VDD008_A LIVE | VSS | VDD008_A LIVE | VSS | VDD008_A LIVE | | | | | |
| Y | VDDQ_M EM | VDDQ_M EM | VDDQ_M EM | VDDQ_M EM | VDDQ_M EM | VSS | VDDQ18 EXT1 | VDDQ18 EXT1 | VDDQ18 EXT1 | VDDQ18 EXT1 | VDD_P | VDD_MIF | VDD008_P | VDDQ18 DRAM | VDD18_R TC | XEINT_34 | XCLKOUT | VDD008_A LIVE | VSS | VDD008_A LIVE | VSS | VDD008_A LIVE | VSS | VDD008_A LIVE | VSS | VDD008_A LIVE | VSS | VDD008_A LIVE | | | | | |
| AA | XMP1LC_S 14L,D1,N | XMP1LC_S 14L,D1,N | XMP1LC_S 14L,D1,N | XMP1LC_S 14L,D1,N | XMP1LC_S 14L,D1,N | VSS | VDDQ18 EXT1 | VDDQ18 EXT1 | VDDQ18 EXT1 | VDDQ18 EXT1 | VDD_P | VDD_MIF | VDD008_P | VDDQ18 DRAM | VDD18_R TC | XEINT_35 | XCLKOUT | VDD008_A LIVE | VSS | VDD008_A LIVE | VSS | VDD008_A LIVE | VSS | VDD008_A LIVE | VSS | VDD008_A LIVE | VSS | VDD008_A LIVE | | | | | |
| AB | XMP1LC_S 14L,D1,N | XMP1LC_S 14L,D1,N | XMP1LC_S 14L,D1,N | XMP1LC_S 14L,D1,N | XMP1LC_S 14L,D1,N | VSS | VDDQ18 EXT1 | VDDQ18 EXT1 | VDDQ18 EXT1 | VDDQ18 EXT1 | VDD_P | VDD_MIF | VDD008_P | VDDQ18 DRAM | VDD18_R TC | XEINT_36 | XCLKOUT | VDD008_A LIVE | VSS | VDD008_A LIVE | VSS | VDD008_A LIVE | VSS | VDD008_A LIVE | VSS | VDD008_A LIVE | VSS | VDD008_A LIVE | | | | | |
| AC | XMP1LC_S 14L,D1,N | XMP1LC_S 14L,D1,N | XMP1LC_S 14L,D1,N | XMP1LC_S 14L,D1,N | XMP1LC_S 14L,D1,N | VSS | VDDQ18 EXT1 | VDDQ18 EXT1 | VDDQ18 EXT1 | VDDQ18 EXT1 | VDD_P | VDD_MIF | VDD008_P | VDDQ18 DRAM | VDD18_R TC | XEINT_37 | XCLKOUT | VDD008_A LIVE | VSS | VDD008_A LIVE | VSS | VDD008_A LIVE | VSS | VDD008_A LIVE | VSS | VDD008_A LIVE | VSS | VDD008_A LIVE | | | | | |
| AD | XMP1LC_S 14L,D1,N | XMP1LC_S 14L,D1,N | XMP1LC_S 14L,D1,N | XMP1LC_S 14L,D1,N | XMP1LC_S 14L,D1,N | VSS | XADQ1A M,SPD, P | XADQ1A M,SPD, P | XADQ1A M,SPD, P | XADQ1A M,SPD, P | VSS | VDDQ18 EXT1 | VDDQ18 EXT1 | VDDQ18 EXT1 | VDDQ18 EXT1 | VDDQ18 EXT1 | VDD_P | VDD_MIF | VDD008_P | VDDQ18 DRAM | VDD18_R TC | XEINT_38 | XCLKOUT | VDD008_A LIVE | VSS | VDD008_A LIVE | VSS | VDD008_A LIVE | VSS | VDD008_A LIVE | VSS | VDD008_A LIVE | |
| AE | XMP1LC_S 14L,D1,N | XMP1LC_S 14L,D1,N | XMP1LC_S 14L,D1,N | XMP1LC_S 14L,D1,N | XMP1LC_S 14L,D1,N | VSS | XADQ1A M,SPD, P | XADQ1A M,SPD, P | XADQ1A M,SPD, P | XADQ1A M,SPD, P | VSS | VDDQ18 EXT1 | VDDQ18 EXT1 | VDDQ18 EXT1 | VDDQ18 EXT1 | VDDQ18 EXT1 | VDD_P | VDD_MIF | VDD008_P | VDDQ18 DRAM | VDD18_R TC | XEINT_39 | XCLKOUT | VDD008_A LIVE | VSS | VDD008_A LIVE | VSS | VDD008_A LIVE | VSS | VDD008_A LIVE | VSS | VDD008_A LIVE | |
| AF | VDDQ_M EM | VDDQ_M EM | VDDQ_M EM | VDDQ_M EM | VDDQ_M EM | VSS | XADQ1A M,SPD, P | XADQ1A M,SPD, P | XADQ1A M,SPD, P | XADQ1A M,SPD, P | VSS | VDDQ18 EXT1 | VDDQ18 EXT1 | VDDQ18 EXT1 | VDDQ18 EXT1 | VDDQ18 EXT1 | VDD_P | VDD_MIF | VDD008_P | VDDQ18 DRAM | VDD18_R TC | XEINT_40 | XCLKOUT | VDD008_A LIVE | VSS | VDD008_A LIVE | VSS | VDD008_A LIVE | VSS | VDD008_A LIVE | VSS | VDD008_A LIVE | |

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2019. 02. Rev 1.0