

**SAMSUNG**

# GSM TELEPHONE

## GT-P6800

# ***SERVICE*** *Manual*

### GSM TELEPHONE



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# 1. Safety Precautions

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## 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.

## **1-2. 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

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

## 2-2. GSM Tx Power Class

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

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### 3. Operation Instruction and Installation

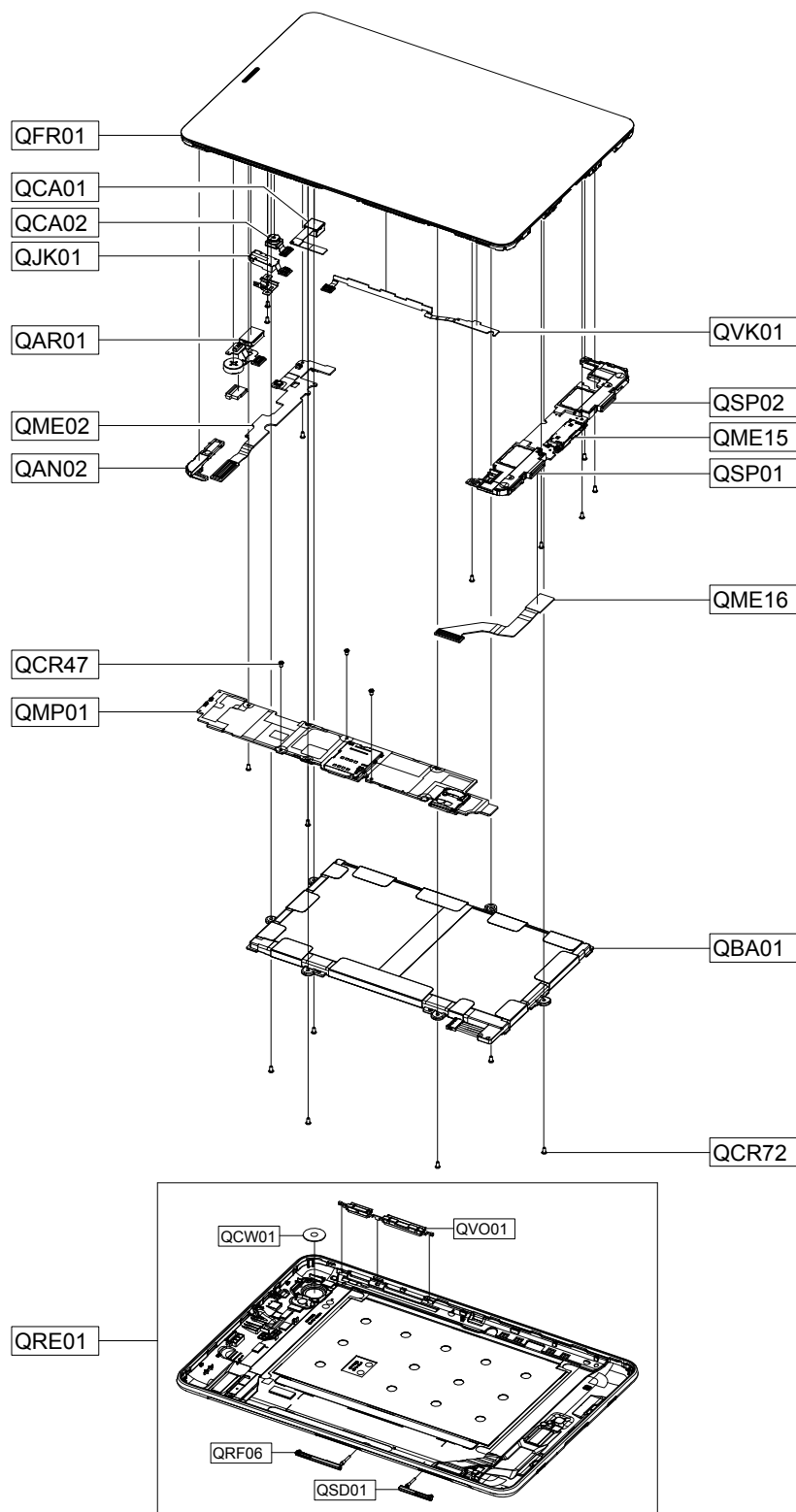
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#### Main Function

- Android OS: Honeycomb
- HSPA+ 21Mbps / HSUPA 5.7Mbps
- 3MP AF with LED Flash, 2M FF
- 7.67 WVGA Super AMOLED Plus (C-Type)
- GPS / BT v3.0 USB v2.0 / WiFi (802.11 a/b/g/n) / OTG
- Recording definition: 720p / Playback at 720p resolution
- Sensors: Accelerometer, Electromagnetic, Gyro, Light, Proximity
- Additional :
  - 1.2GHz Dual Core CPU
  - Application store / Precise Motion UI
  - Seamless Sharing Experience.

## 4. Exploded View and Parts List

### 4-1. Cellular phone Exploded View



## 4-2. Cellular phone Parts list

| Design LOC |       | Description                             | SEC CODE    |
|------------|-------|-----------------------------------------|-------------|
| QCR47      |       | SCREW-MACHINE                           | 6001-001695 |
| QCR72      |       | SCREW-MACHINE                           | 6001-002051 |
| QAN02      |       | INTENNA-GPS/WIFI (GT-P6800)             | GH42-03341A |
| QJK01      |       | UNIT-EARJACK/FPCB ASSY                  | GH59-11657A |
| QVK01      |       | UNIT-VOL/PWR KEY PBA(GT-P6800)          | GH59-11660A |
| QME16      |       | UNIT-CON TO CON(GT-P6800)               | GH59-11670A |
| QCA02      |       | CAMERA MODULE-2M_LSI(GT-P6800)          | GH59-11684A |
| QME02      |       | UNIT-SUB PBA(GT-P6800)                  | GH59-11702A |
| QAR01      |       | MODULE-RCV/MOT/SENSOR FPCB              | GH59-11706A |
| QSP01      |       | MODULE-SPK/INTENNA_LEFT                 | GH59-11756A |
| QSP02      |       | MODULE-SPK/INTENNA_RIGHT (3G)           | GH59-11757A |
| QME15      |       | UNIT-30PIN CON PBA(GT-P6800)            | GH59-11913A |
| QMP01      |       | A/S ASSY-PBA MAIN(COMM)                 | GH82-06191A |
| QCA01      |       | ASSY CAMERA-3M 1/5 LSI MODULE(GT-P6800) | GH96-05393A |
| QFR01      |       | MEA FRONT-OCTA LCD ASSY (SVC)           | GH97-13092A |
| QRE01      |       | ASSY CASE-REAR EU 16G SVC               | GH98-22345A |
|            | QVO01 | PMO WINDOW-CAMERA                       | GH72-65664A |
|            | QSD01 | PMO KEY-POWER VOLUME                    | GH72-65665A |
|            | QRF06 | PMO COVER-SIM                           | GH72-65666A |
|            | QSD01 | PMO COVER-SD                            | GH72-65667A |

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## 5. MAIN Electrical Parts List

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| SEC CODE    | Design LOC        | Description    |
|-------------|-------------------|----------------|
| 0403-001688 | D703,ZD500        | DIODE-ZENER    |
| 0404-001250 | D100,D101         | DIODE-SCHOTTKY |
| 0404-001361 | D800              | DIODE-SCHOTTKY |
| 0406-001241 | ZD703,ZD704       | DIODE-TVS      |
| 0406-001375 | ZD501             | DIODE-TVS      |
| 0406-001413 | ZD100,ZD300,ZD302 | DIODE-TVS      |
| 0406-001413 | ZD303,ZD700,ZD701 | DIODE-TVS      |
| 0406-001413 | ZD702,ZD705,ZD706 | DIODE-TVS      |
| 0406-001413 | ZD707,ZD708,ZD800 | DIODE-TVS      |
| 0406-001413 | ZD801,ZD802,ZD803 | DIODE-TVS      |
| 0406-001413 | ZD804             | DIODE-TVS      |
| 0406-001459 | D702              | DIODE-TVS      |
| 0407-001002 | D500              | DIODE-ARRAY    |
| 0504-001113 | Q100,Q400,TR700   | TR-DIGITAL     |
| 0504-001138 | TR800             | TR-DIGITAL     |
| 0505-001325 | TR504             | FET-SILICON    |
| 0505-003052 | TR503,U106        | FET-SILICON    |
| 0505-002720 | TR500,TR501,TR502 | FET-SILICON    |
| 0801-003024 | U300              | IC             |
| 0801-003031 | U403,U800         | IC             |
| 0902-002847 | UCP400            | IC             |
| 1001-001481 | U703              | IC             |
| 1001-001700 | U701              | IC             |
| 1001-001715 | U107              | IC             |
| 1001-001733 | U102              | IC             |
| 1003-002216 | U806,U808         | IC             |
| 1105-002212 | UME300            | IC             |
| 1107-002086 | UME400            | IC             |
| 1201-003308 | U200              | IC             |
| 1201-003317 | U103              | IC             |
| 1202-001121 | U700,U706         | IC             |
| 1203-003307 | U803              | IC             |
| 1203-004776 | U404              | IC             |
| 1203-004818 | U802,U809         | IC             |
| 1203-004819 | U401,U602,U907    | IC             |
| 1203-004925 | U804,U810         | IC             |

| SEC CODE    | Design LOC          | Description    |
|-------------|---------------------|----------------|
| 1203-005574 | U904                | IC             |
| 1203-006383 | U801                | IC             |
| 1203-006392 | U501                | IC             |
| 1203-006766 | U705                | IC             |
| 1203-006772 | U108                | IC             |
| 1203-006781 | U502                | IC             |
| 1203-006794 | U704                | IC             |
| 1203-006801 | U104                | IC             |
| 1203-006851 | U500                | IC             |
| 1203-006874 | U204,U905           | IC             |
| 1203-006985 | U105                | IC             |
| 1203-007142 | U400                | IC             |
| 1205-004055 | U901                | IC             |
| 1205-004174 | U603                | IC             |
| 1205-004195 | U100                | IC             |
| 1205-004213 | UCP300              | IC             |
| 1205-004391 | U203                | IC             |
| 1205-004395 | U202                | IC             |
| 1205-004396 | U201                | IC             |
| 1209-002038 | U900                | IC             |
| 1209-002041 | U903                | IC             |
| 1209-002052 | U109,U902           | IC             |
| 1404-001221 | TH300,TH400         | THERMISTOR-NTC |
| 1405-001133 | C1000,C199          | VARISTOR       |
| 2007-000138 | R801,R802,R811,R816 | R-CHIP         |
| 2007-000138 | R823,R824           | R-CHIP         |
| 2007-000140 | R456,R457,R472,R473 | R-CHIP         |
| 2007-000140 | R739,R740           | R-CHIP         |
| 2007-000141 | R825,R826           | R-CHIP         |
| 2007-000143 | R324,R325,R451,R452 | R-CHIP         |
| 2007-000143 | R517,R803           | R-CHIP         |
| 2007-000148 | R516,R725,R726,R727 | R-CHIP         |
| 2007-000148 | R728,R733,R742,R821 | R-CHIP         |
| 2007-000148 | R822                | R-CHIP         |
| 2007-000157 | R730,R734,R735,R736 | R-CHIP         |
| 2007-000157 | R737                | R-CHIP         |

| SEC CODE    | Design LOC          | Description |
|-------------|---------------------|-------------|
| 2007-000159 | R713,R714,R804      | R-CHIP      |
| 2007-000162 | R107,R515,R518      | R-CHIP      |
| 2007-000162 | R524,R529,R741,R902 | R-CHIP      |
| 2007-000166 | R715,R716           | R-CHIP      |
| 2007-000167 | R702                | R-CHIP      |
| 2007-000170 | R712,R810           | R-CHIP      |
| 2007-000172 | R806                | R-CHIP      |
| 2007-000173 | R828,R829           | R-CHIP      |
| 2007-000242 | R601                | R-CHIP      |
| 2007-000758 | R100,R108,R109,R528 | R-CHIP      |
| 2007-000758 | R532                | R-CHIP      |
| 2007-000775 | R101                | R-CHIP      |
| 2007-001284 | R304                | R-CHIP      |
| 2007-001288 | R718                | R-CHIP      |
| 2007-001306 | R521,R522,R523      | R-CHIP      |
| 2007-003010 | R924,R925           | R-CHIP      |
| 2007-003015 | R602,R603,R729,R731 | R-CHIP      |
| 2007-003029 | R412                | R-CHIP      |
| 2007-007092 | R732                | R-CHIP      |
| 2007-007107 | R308,R309,R413,R416 | R-CHIP      |
| 2007-007107 | R809                | R-CHIP      |
| 2007-007132 | R805                | R-CHIP      |
| 2007-007137 | R467                | R-CHIP      |
| 2007-007139 | R819                | R-CHIP      |
| 2007-007156 | R503,R504           | R-CHIP      |
| 2007-007310 | R211,R701,R807      | R-CHIP      |
| 2007-007312 | R478,R481           | R-CHIP      |
| 2007-007334 | R717                | R-CHIP      |
| 2007-007517 | R455,R458,R476,R477 | R-CHIP      |
| 2007-007517 | R911,R912,R913,R914 | R-CHIP      |
| 2007-007528 | R525                | R-CHIP      |
| 2007-007573 | R710                | R-CHIP      |
| 2007-007766 | R703                | R-CHIP      |
| 2007-007861 | R800                | R-CHIP      |
| 2007-007942 | R720,R724           | R-CHIP      |
| 2007-008043 | R105,R106           | R-CHIP      |

| SEC CODE    | Design LOC          | Description |
|-------------|---------------------|-------------|
| 2007-008045 | R104                | R-CHIP      |
| 2007-008051 | R203                | R-CHIP      |
| 2007-008052 | R310,R420,R421,R422 | R-CHIP      |
| 2007-008052 | R423,R470,R474,R475 | R-CHIP      |
| 2007-008052 | R814,R815,R901,R903 | R-CHIP      |
| 2007-008052 | R905                | R-CHIP      |
| 2007-008055 | R214,R318,R429,R432 | R-CHIP      |
| 2007-008055 | R433,R435,R436,R437 | R-CHIP      |
| 2007-008055 | R441,R443,R448,R449 | R-CHIP      |
| 2007-008055 | R450,R460,R483      | R-CHIP      |
| 2007-008210 | R704,R706           | R-CHIP      |
| 2007-008263 | R213                | R-CHIP      |
| 2007-008275 | R711                | R-CHIP      |
| 2007-008312 | R307                | R-CHIP      |
| 2007-008391 | R531                | R-CHIP      |
| 2007-008401 | R723                | R-CHIP      |
| 2007-008403 | R514,R808           | R-CHIP      |
| 2007-008419 | R453,R454           | R-CHIP      |
| 2007-008420 | R319,R479,R480      | R-CHIP      |
| 2007-008483 | R707,R708,R709      | R-CHIP      |
| 2007-008486 | R311                | R-CHIP      |
| 2007-008516 | R400,R402,R418,R419 | R-CHIP      |
| 2007-008516 | R425,R427,R468,R469 | R-CHIP      |
| 2007-008516 | R471,R482,R509,R510 | R-CHIP      |
| 2007-008516 | R512,R513           | R-CHIP      |
| 2007-008588 | R300,R301,R302,R827 | R-CHIP      |
| 2007-008800 | R459,R461           | R-CHIP      |
| 2007-008806 | R113,R700           | R-CHIP      |
| 2007-009084 | R722                | R-CHIP      |
| 2007-009111 | R411                | R-CHIP      |
| 2007-009155 | R320                | R-CHIP      |
| 2007-009157 | R462                | R-CHIP      |
| 2007-009169 | R511                | R-CHIP      |
| 2007-009170 | R442                | R-CHIP      |
| 2007-009171 | R403,R404,R405,R406 | R-CHIP      |
| 2007-009171 | R407,R408,R409,R410 | R-CHIP      |

| SEC CODE    | Design LOC          | Description    |
|-------------|---------------------|----------------|
| 2007-009314 | R430                | R-CHIP         |
| 2007-009408 | R438,R439           | R-CHIP         |
| 2007-009794 | R207,R530           | R-CHIP         |
| 2007-009801 | R102,R103           | R-CHIP         |
| 2007-009804 | R600                | R-CHIP         |
| 2007-009805 | R208,R209           | R-CHIP         |
| 2007-009866 | R414                | R-CHIP         |
| 2007-009879 | R526                | R-CHIP         |
| 2007-009964 | R463,R466           | R-CHIP         |
| 2007-010029 | R465                | R-CHIP         |
| 2007-010233 | R313                | R-CHIP         |
| 2007-010856 | R527                | R-CHIP         |
| 2203-000138 | C808,C809           | C-CERAMIC,CHIP |
| 2203-000233 | C102,C103,C183,C204 | C-CERAMIC,CHIP |
| 2203-000233 | C206,C212,C261,L127 | C-CERAMIC,CHIP |
| 2203-000254 | C100,C228,C570,C574 | C-CERAMIC,CHIP |
| 2203-000278 | C230,C259,C260      | C-CERAMIC,CHIP |
| 2203-000386 | C625                | C-CERAMIC,CHIP |
| 2203-000438 | C235                | C-CERAMIC,CHIP |
| 2203-000489 | C846,C847,C911      | C-CERAMIC,CHIP |
| 2203-000627 | C227                | C-CERAMIC,CHIP |
| 2203-000725 | C551                | C-CERAMIC,CHIP |
| 2203-000812 | C341,C342,C343      | C-CERAMIC,CHIP |
| 2203-001153 | C626                | C-CERAMIC,CHIP |
| 2203-002443 | C800                | C-CERAMIC,CHIP |
| 2203-002687 | C562,C566,C578      | C-CERAMIC,CHIP |
| 2203-005138 | C455,C461           | C-CERAMIC,CHIP |
| 2203-005682 | C111,C184,C200      | C-CERAMIC,CHIP |
| 2203-005683 | C144                | C-CERAMIC,CHIP |
| 2203-005725 | C338,C339,C457,C458 | C-CERAMIC,CHIP |
| 2203-005726 | C110,C176,C185,C186 | C-CERAMIC,CHIP |
| 2203-005726 | C189,C194           | C-CERAMIC,CHIP |
| 2203-005729 | C253,C515,C523      | C-CERAMIC,CHIP |
| 2203-005731 | C278                | C-CERAMIC,CHIP |
| 2203-005736 | C143                | C-CERAMIC,CHIP |
| 2203-005789 | C123,C134           | C-CERAMIC,CHIP |

| SEC CODE    | Design LOC          | Description    |
|-------------|---------------------|----------------|
| 2203-005806 | C121                | C-CERAMIC,CHIP |
| 2203-006047 | C805                | C-CERAMIC,CHIP |
| 2203-006048 | C101,C340,C462,C569 | C-CERAMIC,CHIP |
| 2203-006048 | C571,C912           | C-CERAMIC,CHIP |
| 2203-006121 | C245                | C-CERAMIC,CHIP |
| 2203-006187 | C115                | C-CERAMIC,CHIP |
| 2203-006190 | C446                | C-CERAMIC,CHIP |
| 2203-006194 | C127,C148,C223,C303 | C-CERAMIC,CHIP |
| 2203-006194 | C304                | C-CERAMIC,CHIP |
| 2203-006208 | C525,C527,C528,C529 | C-CERAMIC,CHIP |
| 2203-006305 | C219,C224,C225,C239 | C-CERAMIC,CHIP |
| 2203-006305 | C251,C258,C266,C270 | C-CERAMIC,CHIP |
| 2203-006305 | C274,C275,C276,C281 | C-CERAMIC,CHIP |
| 2203-006379 | C116                | C-CERAMIC,CHIP |
| 2203-006399 | C149,C165,C195,C196 | C-CERAMIC,CHIP |
| 2203-006399 | C197,C198,C424,C453 | C-CERAMIC,CHIP |
| 2203-006399 | C454,C501,C502,C532 | C-CERAMIC,CHIP |
| 2203-006399 | C541,C565,C572,C575 | C-CERAMIC,CHIP |
| 2203-006399 | C602,C603,C709,C810 | C-CERAMIC,CHIP |
| 2203-006399 | C811,C812,C818,C823 | C-CERAMIC,CHIP |
| 2203-006399 | C824,C827,C828,C829 | C-CERAMIC,CHIP |
| 2203-006399 | C843,C845,C900,C901 | C-CERAMIC,CHIP |
| 2203-006399 | C909,C910,C914,C915 | C-CERAMIC,CHIP |
| 2203-006399 | C916                | C-CERAMIC,CHIP |
| 2203-006423 | C125,C130,C135,C136 | C-CERAMIC,CHIP |
| 2203-006423 | C137,C138,C139,C150 | C-CERAMIC,CHIP |
| 2203-006423 | C151,C154,C155,C156 | C-CERAMIC,CHIP |
| 2203-006423 | C158,C201,C202,C231 | C-CERAMIC,CHIP |
| 2203-006423 | C233,C234,C236,C237 | C-CERAMIC,CHIP |
| 2203-006423 | C242,C248,C284,C302 | C-CERAMIC,CHIP |
| 2203-006423 | C305,C306,C316,C317 | C-CERAMIC,CHIP |
| 2203-006423 | C318,C320,C321,C323 | C-CERAMIC,CHIP |
| 2203-006423 | C324,C326,C327,C328 | C-CERAMIC,CHIP |
| 2203-006423 | C331,C332,C333,C344 | C-CERAMIC,CHIP |
| 2203-006423 | C400,C401,C402,C407 | C-CERAMIC,CHIP |
| 2203-006423 | C412,C432,C436,C438 | C-CERAMIC,CHIP |

| SEC CODE    | Design LOC          | Description    |
|-------------|---------------------|----------------|
| 2203-006423 | C440,C442,C445,C456 | C-CERAMIC,CHIP |
| 2203-006423 | C459,C460,C552,C608 | C-CERAMIC,CHIP |
| 2203-006423 | C905,C906,C908,C913 | C-CERAMIC,CHIP |
| 2203-006462 | C269,C277           | C-CERAMIC,CHIP |
| 2203-006474 | C419,C420           | C-CERAMIC,CHIP |
| 2203-006562 | C513,C710,C926      | C-CERAMIC,CHIP |
| 2203-006642 | C431,C434           | C-CERAMIC,CHIP |
| 2203-006647 | C140,C141,C142,C157 | C-CERAMIC,CHIP |
| 2203-006647 | C616,C618           | C-CERAMIC,CHIP |
| 2203-006648 | C129,C613,C614      | C-CERAMIC,CHIP |
| 2203-006665 | C252,C280           | C-CERAMIC,CHIP |
| 2203-006668 | C448,C449           | C-CERAMIC,CHIP |
| 2203-006815 | C118,C122           | C-CERAMIC,CHIP |
| 2203-006824 | C166                | C-CERAMIC,CHIP |
| 2203-006839 | C131,C152,C255,C268 | C-CERAMIC,CHIP |
| 2203-006839 | C512,C514,C606,C907 | C-CERAMIC,CHIP |
| 2203-006872 | C153,C168,C203,C209 | C-CERAMIC,CHIP |
| 2203-006872 | C214,C216,C232,C238 | C-CERAMIC,CHIP |
| 2203-006872 | C241,C244,C246,C247 | C-CERAMIC,CHIP |
| 2203-006872 | C250,C254,C403,C404 | C-CERAMIC,CHIP |
| 2203-006872 | C406,C418,C426,C435 | C-CERAMIC,CHIP |
| 2203-006872 | C437,C441,C535,C539 | C-CERAMIC,CHIP |
| 2203-006872 | C540,C544,C545,C546 | C-CERAMIC,CHIP |
| 2203-006872 | C615,C813,C815,C816 | C-CERAMIC,CHIP |
| 2203-006872 | C817,C825,C826,C839 | C-CERAMIC,CHIP |
| 2203-006872 | C840,C902,C903,C904 | C-CERAMIC,CHIP |
| 2203-006890 | C524                | C-CERAMIC,CHIP |
| 2203-006896 | C191,C192,C193      | C-CERAMIC,CHIP |
| 2203-006979 | C106,C109,C620,C623 | C-CERAMIC,CHIP |
| 2203-007147 | C443,C444,C463,C510 | C-CERAMIC,CHIP |
| 2203-007194 | C240,C243,C279      | C-CERAMIC,CHIP |
| 2203-007210 | C169,C300,C307,C312 | C-CERAMIC,CHIP |
| 2203-007210 | C315,C319,C325,C329 | C-CERAMIC,CHIP |
| 2203-007210 | C330,C334,C335,C345 | C-CERAMIC,CHIP |
| 2203-007230 | C568                | C-CERAMIC,CHIP |
| 2203-007240 | C336,C337,C452,C704 | C-CERAMIC,CHIP |

| SEC CODE    | Design LOC          | Description    |
|-------------|---------------------|----------------|
| 2203-007271 | C126,C215,C226,C267 | C-CERAMIC,CHIP |
| 2203-007271 | C285,C286,C287,C439 | C-CERAMIC,CHIP |
| 2203-007271 | C820                | C-CERAMIC,CHIP |
| 2203-007317 | C128,C159,C164,C170 | C-CERAMIC,CHIP |
| 2203-007317 | C171,C172,C405,C408 | C-CERAMIC,CHIP |
| 2203-007317 | C413,C415,C421,C423 | C-CERAMIC,CHIP |
| 2203-007317 | C505,C507,C508,C509 | C-CERAMIC,CHIP |
| 2203-007317 | C516,C517,C518,C519 | C-CERAMIC,CHIP |
| 2203-007317 | C520,C521,C522,C534 | C-CERAMIC,CHIP |
| 2203-007317 | C538,C707,C830,C832 | C-CERAMIC,CHIP |
| 2203-007317 | C834,C835           | C-CERAMIC,CHIP |
| 2203-007342 | C806,C807           | C-CERAMIC,CHIP |
| 2203-007391 | C249                | C-CERAMIC,CHIP |
| 2203-007393 | C147,C451,C531,C821 | C-CERAMIC,CHIP |
| 2203-007393 | C822                | C-CERAMIC,CHIP |
| 2203-007449 | C167,C308,C309,C310 | C-CERAMIC,CHIP |
| 2203-007449 | C322,C409,C410,C411 | C-CERAMIC,CHIP |
| 2203-007449 | C414,C416,C417,C422 | C-CERAMIC,CHIP |
| 2203-007449 | C425,C427,C428,C429 | C-CERAMIC,CHIP |
| 2203-007449 | C430,C433,C464,C465 | C-CERAMIC,CHIP |
| 2203-007449 | C500,C533,C536,C537 | C-CERAMIC,CHIP |
| 2203-007449 | C542,C543,C547,C548 | C-CERAMIC,CHIP |
| 2203-007449 | C549,C550,C607,C609 | C-CERAMIC,CHIP |
| 2203-007449 | C610,C611,C617,C621 | C-CERAMIC,CHIP |
| 2203-007449 | C622,C624,C701,C703 | C-CERAMIC,CHIP |
| 2203-007449 | C831,C844,C917,C919 | C-CERAMIC,CHIP |
| 2203-007449 | C920,C921,C922,C923 | C-CERAMIC,CHIP |
| 2203-007449 | C927,C928           | C-CERAMIC,CHIP |
| 2203-007456 | C503,C711           | C-CERAMIC,CHIP |
| 2203-007474 | C161,C163,C311,C313 | C-CERAMIC,CHIP |
| 2203-007474 | C314,C504,C506,C526 | C-CERAMIC,CHIP |
| 2203-007474 | C553,C554,C555,C556 | C-CERAMIC,CHIP |
| 2203-007474 | C557,C558,C559,C560 | C-CERAMIC,CHIP |
| 2203-007474 | C561,C563,C564,C567 | C-CERAMIC,CHIP |
| 2203-007474 | C708                | C-CERAMIC,CHIP |
| 2203-007775 | C577                | C-CERAMIC,CHIP |

| SEC CODE    | Design LOC          | Description    |
|-------------|---------------------|----------------|
| 2203-007781 | C700                | C-CERAMIC,CHIP |
| 2203-007795 | C301,C511,C576,C705 | C-CERAMIC,CHIP |
| 2203-007795 | C712,C801,C802,C803 | C-CERAMIC,CHIP |
| 2203-007795 | C804,C814           | C-CERAMIC,CHIP |
| 2404-001561 | TA600               | C-TA,CHIP      |
| 2703-002176 | L208                | INDUCTOR-SMD   |
| 2703-001729 | L130                | INDUCTOR-SMD   |
| 2703-002207 | C263,L207           | INDUCTOR-SMD   |
| 2703-002208 | C265                | INDUCTOR-SMD   |
| 2703-002313 | L100,L202           | INDUCTOR-SMD   |
| 2703-002314 | L205                | INDUCTOR-SMD   |
| 2703-002369 | L206                | INDUCTOR-SMD   |
| 2703-002596 | L117,L120           | INDUCTOR-SMD   |
| 2703-002649 | L110                | INDUCTOR-SMD   |
| 2703-002858 | L111,L112           | INDUCTOR-SMD   |
| 2703-002901 | L122,L126           | INDUCTOR-SMD   |
| 2703-002907 | L125                | INDUCTOR-SMD   |
| 2703-002999 | L102                | INDUCTOR-SMD   |
| 2703-003546 | L400                | INDUCTOR-SMD   |
| 2703-003686 | L503                | INDUCTOR-SMD   |
| 2703-003755 | L116,L118,L119      | INDUCTOR-SMD   |
| 2703-003869 | L302,L303           | INDUCTOR-SMD   |
| 2703-003892 | L504                | INDUCTOR-SMD   |
| 2703-003908 | C208,L204           | INDUCTOR-SMD   |
| 2703-003909 | L501,L505           | INDUCTOR-SMD   |
| 2703-003911 | L500,L502,L700      | INDUCTOR-SMD   |
| 2703-003917 | L108,L132,L134      | INDUCTOR-SMD   |
| 2703-004000 | L105,L124,L129,L131 | INDUCTOR-SMD   |
| 2703-004014 | C177,C178,L113      | INDUCTOR-SMD   |
| 2703-004018 | L123,L128,C114      | INDUCTOR-SMD   |
| 2703-004033 | L203                | INDUCTOR-SMD   |
| 2703-004034 | C107,C108           | INDUCTOR-SMD   |
| 2703-004037 | C173,C174,C180,C181 | INDUCTOR-SMD   |
| 2703-004037 | L103,L104           | INDUCTOR-SMD   |
| 2703-004185 | L115                | INDUCTOR-SMD   |
| 2703-004189 | L801                | INDUCTOR-SMD   |

| SEC CODE    | Design LOC           | Description           |
|-------------|----------------------|-----------------------|
| 2703-004194 | L506                 | INDUCTOR-SMD          |
| 2801-004458 | OSC400               | CRYSTAL-SMD           |
| 2801-004551 | OSC300               | CRYSTAL-SMD           |
| 2801-004902 | OSC500               | CRYSTAL-SMD           |
| 2801-004954 | OSC202               | CRYSTAL-SMD           |
| 2801-005069 | OSC201               | CRYSTAL-SMD           |
| 2809-001369 | OSC100               | CRYSTAL-SMD           |
| 2809-001374 | OSC200               | OSCILLATOR-VCTCXO     |
| 2901-001625 | F800                 | FILTER-EMI/ESD        |
| 2901-001647 | F801,F802            | FILTER-EMI SMD        |
| 2904-001944 | F202,F206            | FILTER-SAW            |
| 2904-001988 | F200                 | FILTER-SAW            |
| 2904-002020 | F102                 | FILTER-SAW            |
| 2904-002027 | F101                 | FILTER-SAW            |
| 2910-000126 | F100                 | DUPLEXER-SAW          |
| 2911-000188 | F205                 | DUPLEXER-FEM          |
| 2911-000191 | U101                 | DUPLEXER-FEM          |
| 3301-001534 | L900,L901,L902,L903  | BEAD-SMD              |
| 3301-001659 | L201                 | BEAD-SMD              |
| 3301-001912 | L121                 | BEAD-SMD              |
| 3301-001929 | L200,L600            | BEAD-SMD              |
| 3301-001956 | L300,L301            | BEAD-SMD              |
| 3301-002037 | L800                 | BEAD-SMD              |
| 3301-002062 | L114                 | BEAD-SMD              |
| 3301-002065 | L601,L602            | BEAD-SMD              |
| 3705-001448 | ANT100               | CONNECTOR-COAXIAL     |
| 3705-001731 | RFS100,RFS101        | CONNECTOR-COAXIAL     |
| 3709-001575 | CD700                | CONNECTOR-CARD EDGE   |
| 3709-001625 | CN300                | CONNECTOR-CARD EDGE   |
| 3711-006483 | HDC700               | HEADER-BOARD TO BOARD |
| 3711-006568 | HDC800               | HEADER-BOARD TO BOARD |
| 3711-006843 | HDC801               | HEADER-BOARD TO BOARD |
| 3711-007173 | HDC300,HDC400        | HEADER-BOARD TO BOARD |
| 3711-007494 | BAT500               | CONNECTOR-HEADER      |
| 3712-001362 | ANT101,ANT102        | CONNECTOR-TERMINAL    |
| 3712-001412 | ANT103,ANT104,ANT200 | CONNECTOR-TERMINAL    |

| SEC CODE    | Design LOC          | Description        |
|-------------|---------------------|--------------------|
| 3712-001412 | ANT201,ANT202       | CONNECTOR-TERMINAL |
| 4709-001672 | F203                | FREQ-DISTRIBUTER   |
| 4709-002018 | F207                | BALUN              |
| 4709-002019 | F204                | BALUN              |
| 4709-002021 | F201                | FREQ-DISTRIBUTER   |
| GH80-03320A | C207,R112,R115,R116 | Solder Bridge PAD  |
| GH80-03320A | R117,R118,R119,R200 | Solder Bridge PAD  |
| GH80-03320A | R201,R202,R204,R205 | Solder Bridge PAD  |
| GH80-03320A | R206,R212,R216,R486 | Solder Bridge PAD  |
| GH80-03320A | R487,R488,R813,R817 | Solder Bridge PAD  |
| GH80-03320A | R900                | Solder Bridge PAD  |
| GH80-03321A | R120,R210,R314,R315 | Solder Bridge PAD  |
| GH80-03321A | R440,R719,R721,R904 | Solder Bridge PAD  |
| GH80-03321A | R923                | Solder Bridge PAD  |
| GH98-21795A | SC101               | SHIELDCAN          |
| GH98-21796A | SC100               | SHIELDCAN          |

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## 6. Level 1 Repair

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### 6-1. S/W Download

#### 6-1-1. Pre-requisite for S/W Downloading

- Downloader Program ([Odin3 v1.85.exe](#))
- GT-P6800 Tablet PC
- Data Link Cable (GH39-01440B)
- Binary files

#### ❖ Settings

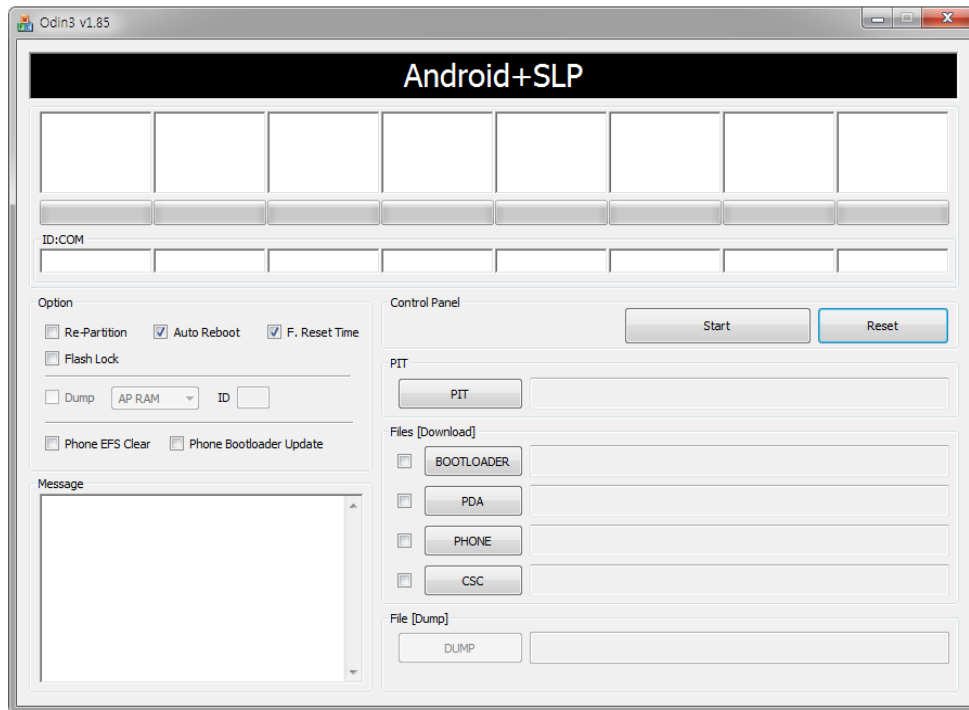


———— Data Link Cable ————



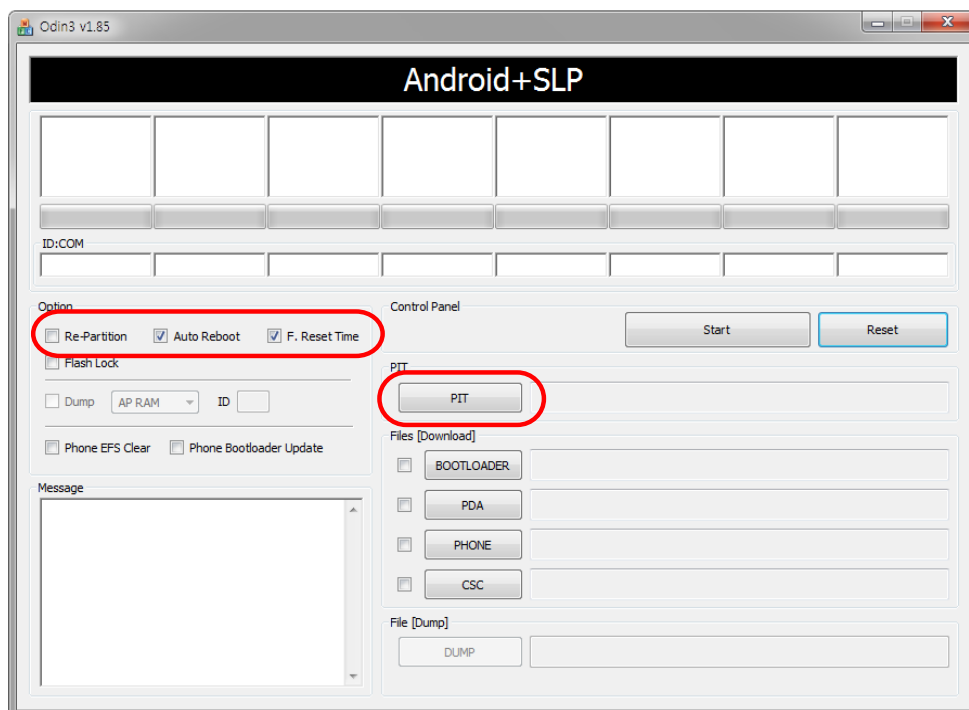
## 6-1-2. S/W Downloader Program

- Load the binary download program by executing the **"Odin3 v1.85.exe"** ← **Run this file.**



### 1. Option Selection

- Check Auto Reboot and F. Reset Time, then select PIT File

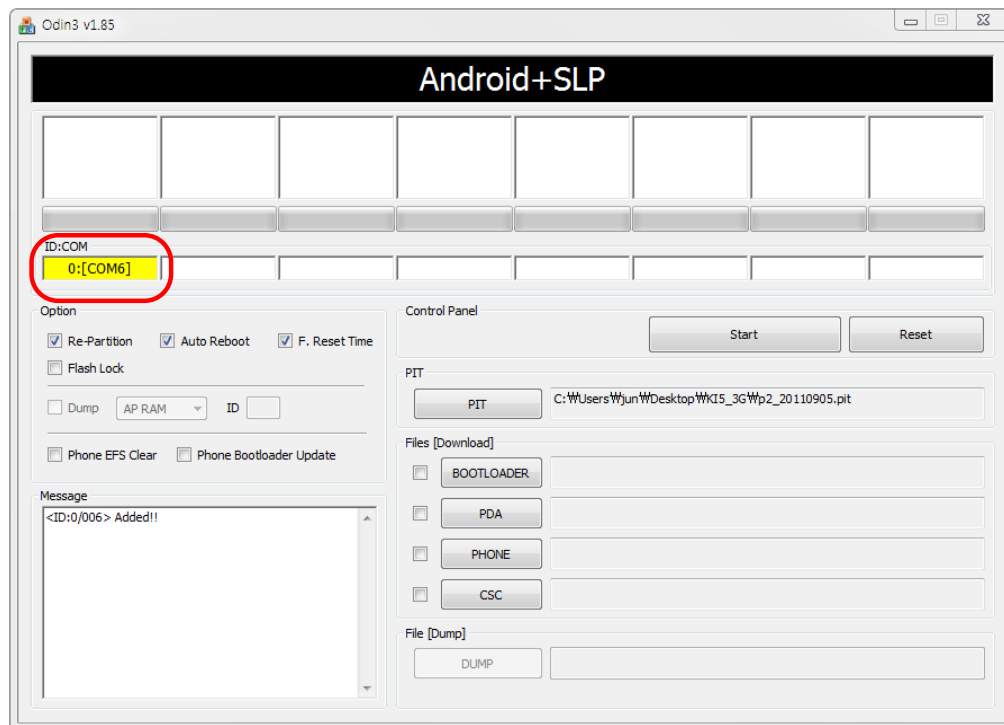


**2. Enter Device into Download Mode**

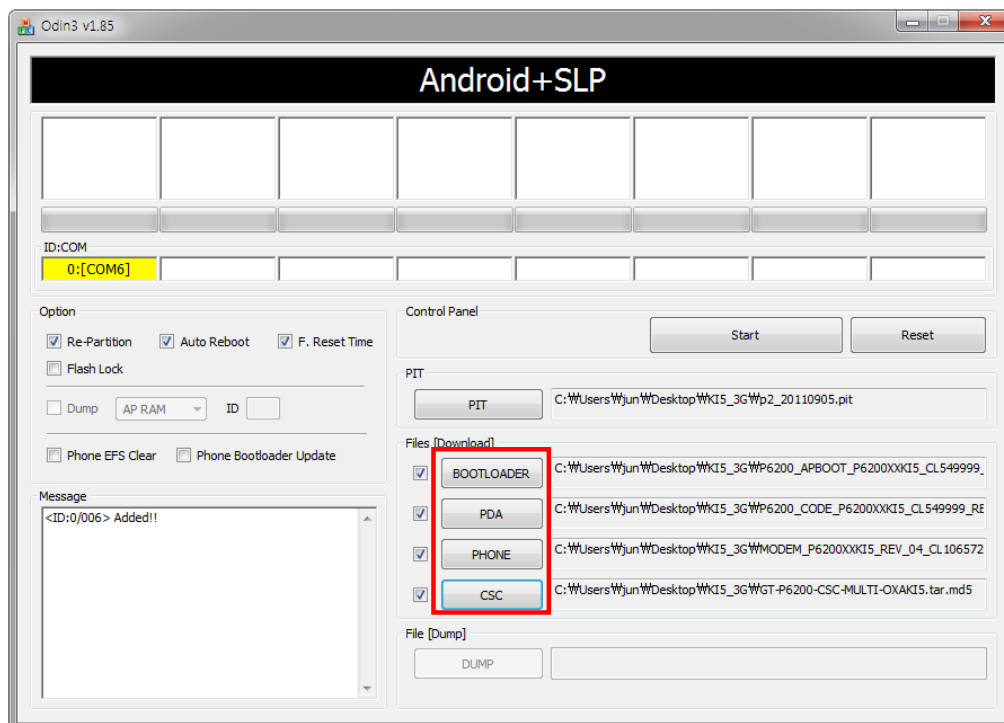
- Press down on Volume Down button and power key at same time for 10 seconds
- Press down on Volume Up button to enter device into download mode



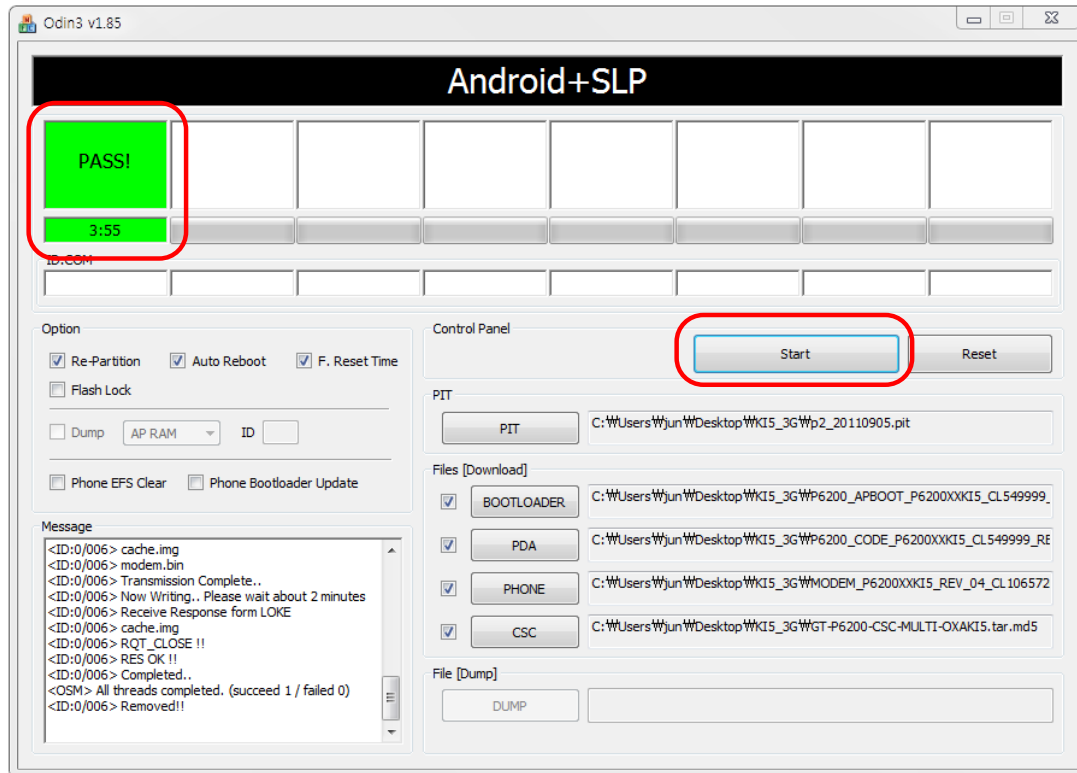
3. Connect the Device to PC via Data Cable.  
Make sure ID:COM box highlighted yellow that the device is connected to the PC.



4. Enable the check mark by click on the following options,  
- Check BOOTLOADER, PDA, PHONE, and CSC Files



5. Start downloading binary file 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 file has been successfully downloaded into the device.



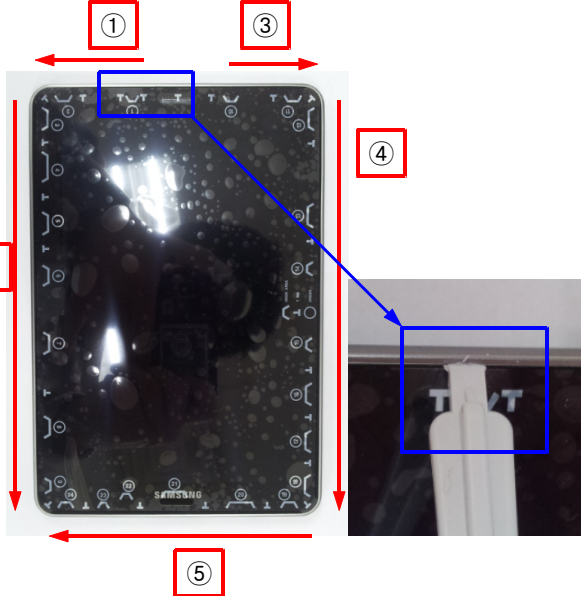
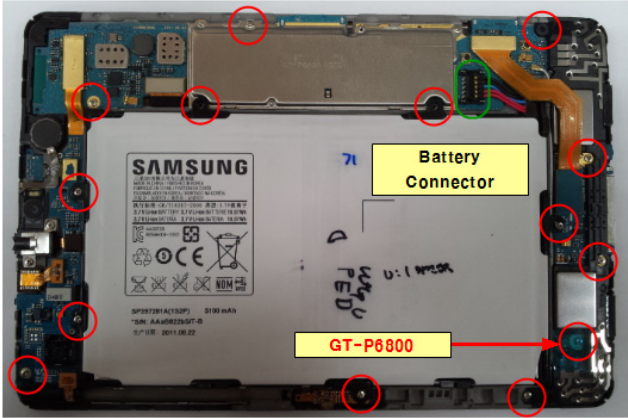
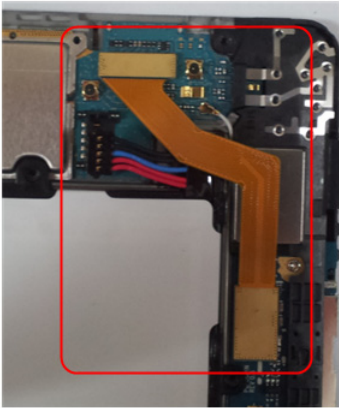
6. Disconnect the device from the Data cable.
7. Once the device boots up, confirm the downloaded version name and etc. :  
**\*#1234#**

Full Reset :

**\*2767\*3855#**

## 7. Level 2 Repair

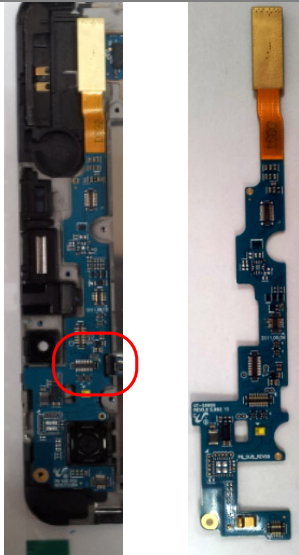
### 7-1. Disassembly

|                                                                                                                                          |                                                                                                                                                              |
|------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1 Disassemble the Rear in order of the picture.</p>  | <p>2 Loosen the 13 screws and then disassemble the Battery Connector.</p>  |
| <p>1) Be careful not to make scratch and molding damage!</p>                                                                             | <p>1) Be careful not to make a scratch of FPCBs.<br/>2) Be careful not to make scratch and molding damage!</p>                                               |
| <p>3 Disassemble the Connector FPCB (con to con)</p>  | <p>4 Disassemble the Main Battery.</p>                                   |
| <p>1) Be careful not to make scratch and molding damage!<br/>2) Be careful not to damage FPCBs</p>                                       | <p>1) Be careful not to make scratch and molding damage!</p>                                                                                                 |

|                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div> <p>5 Disassemble the Speaker module.</p> </div> <div> </div>                                                                                  | <div> <p>6 Disassemble the Connector of OCTA, SUB PBA and then disassemble MAIN PBA.</p> </div> <div> </div>                                        |
| <p>1) Be careful not to make scratch and molding damage!</p>                                                                                                                                                                                     | <p>1) Be careful not to make scratch and molding damage!<br/>2) Be careful not to damage FPCB</p>                                                                                                                                                  |
| <div> <p>7 Disassemble Bracket of Earphone connector after disassembling 2 screws and then lift the Earphone connector.</p> </div> <div> </div> | <div> <p>8 Disassembly order refer to the picture.<br/>(VOLUME KEY FPCB → 2Mega CAMERA → SENSOR RUBBER → SENSOR MODULE)</p> </div> <div> </div> |
| <p>1) Be careful not to make scratch and molding damage!</p>                                                                                                                                                                                     | <p>1) Be careful not to make scratch and molding damage!<br/>2) Be careful not to damage FPCB</p>                                                                                                                                                  |

9

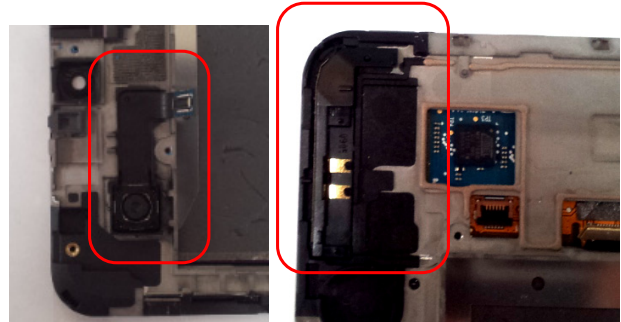
Disassemble SUB PBA after disassembling  
3Mega Camera connector.



- 1) Be careful not to make scratch and molding damage!
- 3) Be careful not to damage Receiver FPCB

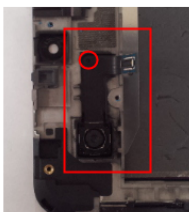
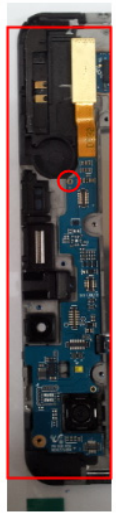
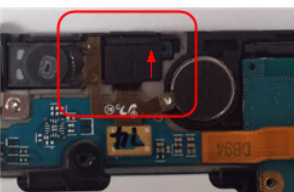
10

Disassemble WiFi antenna after disassembling  
3Mega Camera.



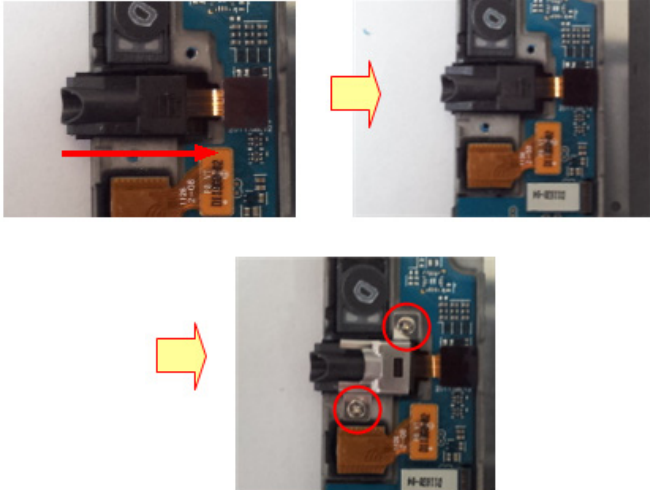
- 1) Be careful not to make scratch and molding damage!

## 7-2. Assembly

|                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div><div>1</div><div>Place WIFI INTENNA and 3Mega CAMERA on OCTA LCD Bracket Assembly.</div></div> <div><div>1</div><div>2</div></div>                                         | <div><div>2</div><div>Place the SUB PBA on the Bracket after removing release paper and then assemble the connector of 3Mega CAMERA.</div></div> <div></div> |
| <p>1) Be careful not to make scratch and molding damage!</p>                                                                                                                                                                                                                                                                                                                                              | <p>1) Be careful not to make scratch and molding damage!</p>                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <div><div>3</div><div>place the Camera Rubber after placing the Sensor Rubber along the direction of the below picture.</div></div> <div><div>1</div><div>2</div></div> | <div><div>4</div><div>Place the 2 Mega CAMERA and then assemble the Camera connector.</div></div> <div></div>                                                                                                                                                                                                                |
| <p>1) Be careful not to make scratch and molding damage!</p>                                                                                                                                                                                                                                                                                                                                              | <p>1) Be careful not to make scratch and molding damage!</p>                                                                                                                                                                                                                                                                                                                                                                                                                   |

5

place the earphone connector bracket on LCD Bracket after placing the earphone connector as push to downside. And then screw the 2 screws.



1) Be careful not to make scratch and molding damage!

6

place the Volume key FPCB on the LCD Bracket follow the picture after removing release paper of Volume Key FPCB. and then assemble the Volume key FPCB connector.

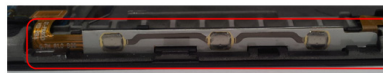
1



3



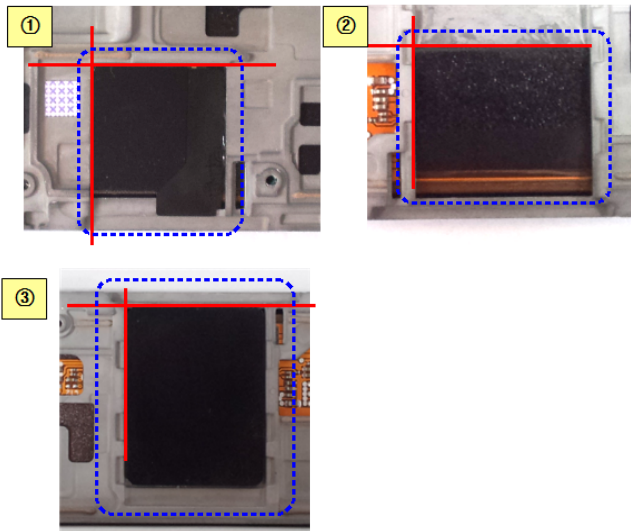
2



1) Be careful not to make scratch and molding damage!

7

Attach the tapes in order of the below pictures.



1) Be careful not to make scratch and molding damage!

8

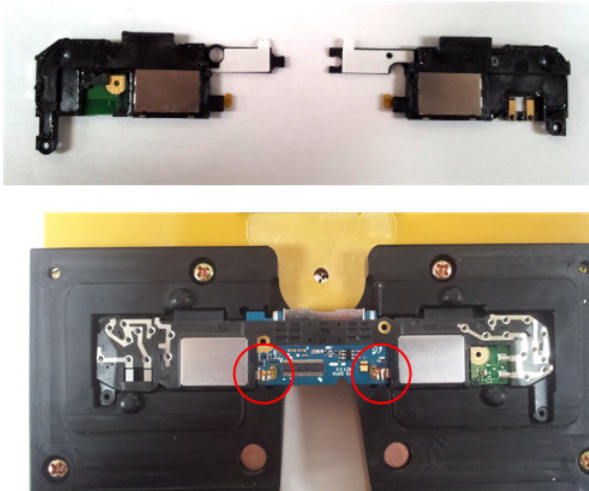
Assemble the connectors(SUB PBA and OCTA LCD) after placing the main PBA on LCD Bracket.



1) Be careful not to make scratch and molding damage!

9

attach the Right and Left side speaker module after removing the release paper of speaker modules. and then solder the speaker modules on the PCB of 30 pin IF connector.



1) Be careful not to make scratch and molding damage!

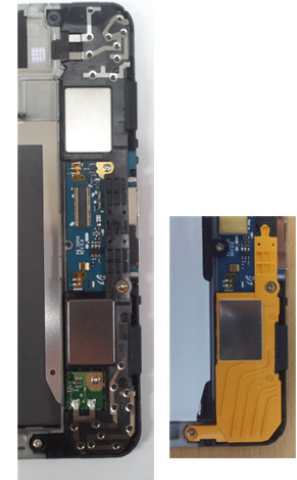
10

Assemble speaker assembly module on LCD Bracket after removing the release paper on the LCD Bracket.

1



2



1) Be careful not to make scratch and molding damage!

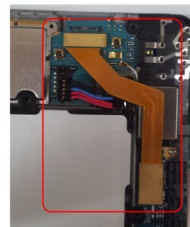
11

Assemble the connector main IF FPCB(Connector to connector) after placing the Battery.

1



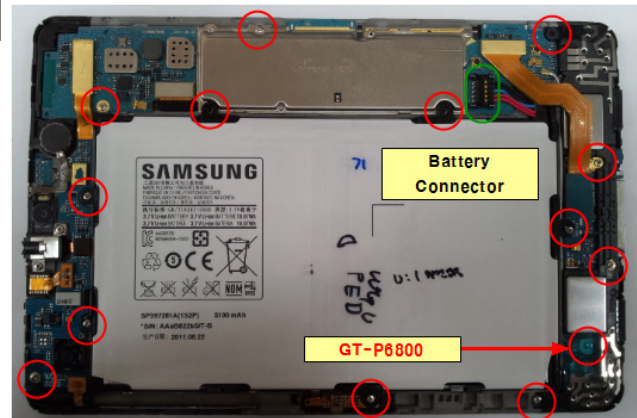
2



1) Be careful not to make scratch and molding damage!

12

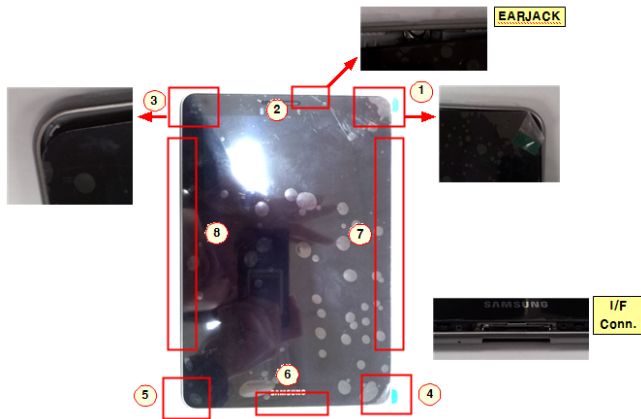
Assemble the Battery connector after screwing 13 screws.



1) Be careful not to make scratch and molding damage!

13

Assemble the hook of REAR in order of the picture.



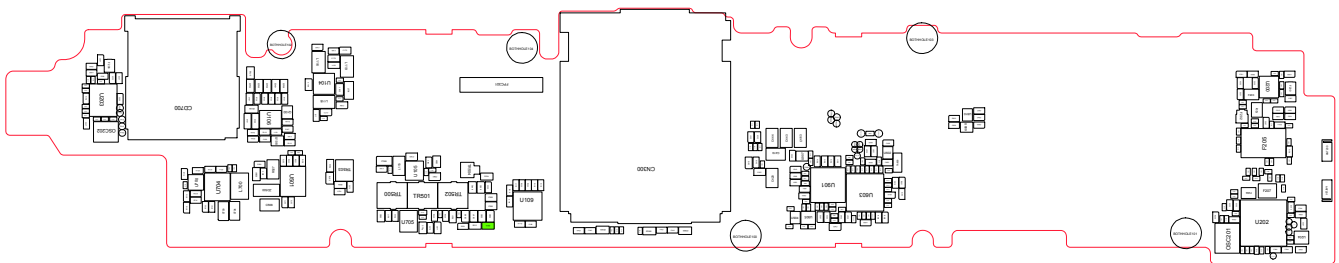
1) Be careful not to make scratch and molding damage!

### 8-1. Block Diagram



## 8-2. PCB Diagrams

### 8-2-1. Top

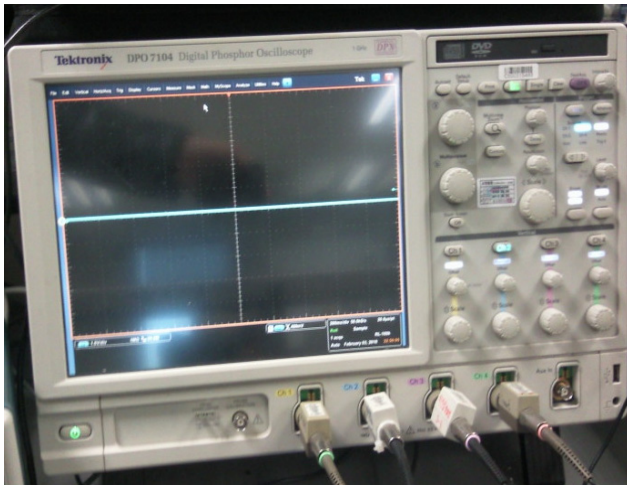


## 8-2-2. Bottom



### 8-3. Flow Chart of Troubleshooting

#### Equipments



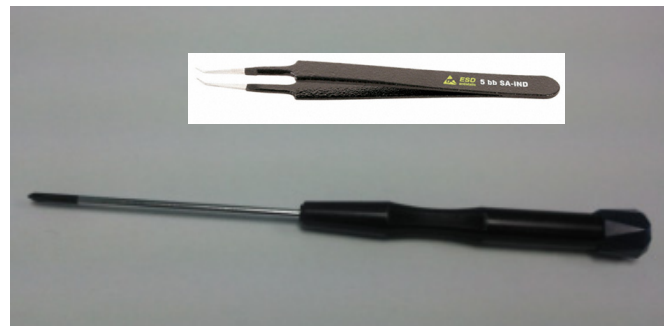
↑ Oscilloscope



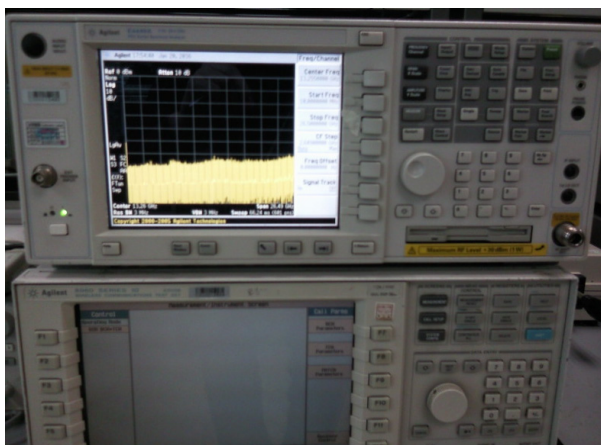
↑ Digital Multimeter



↑ Power Supply



↑ + driver, ESD Safe Tweezer

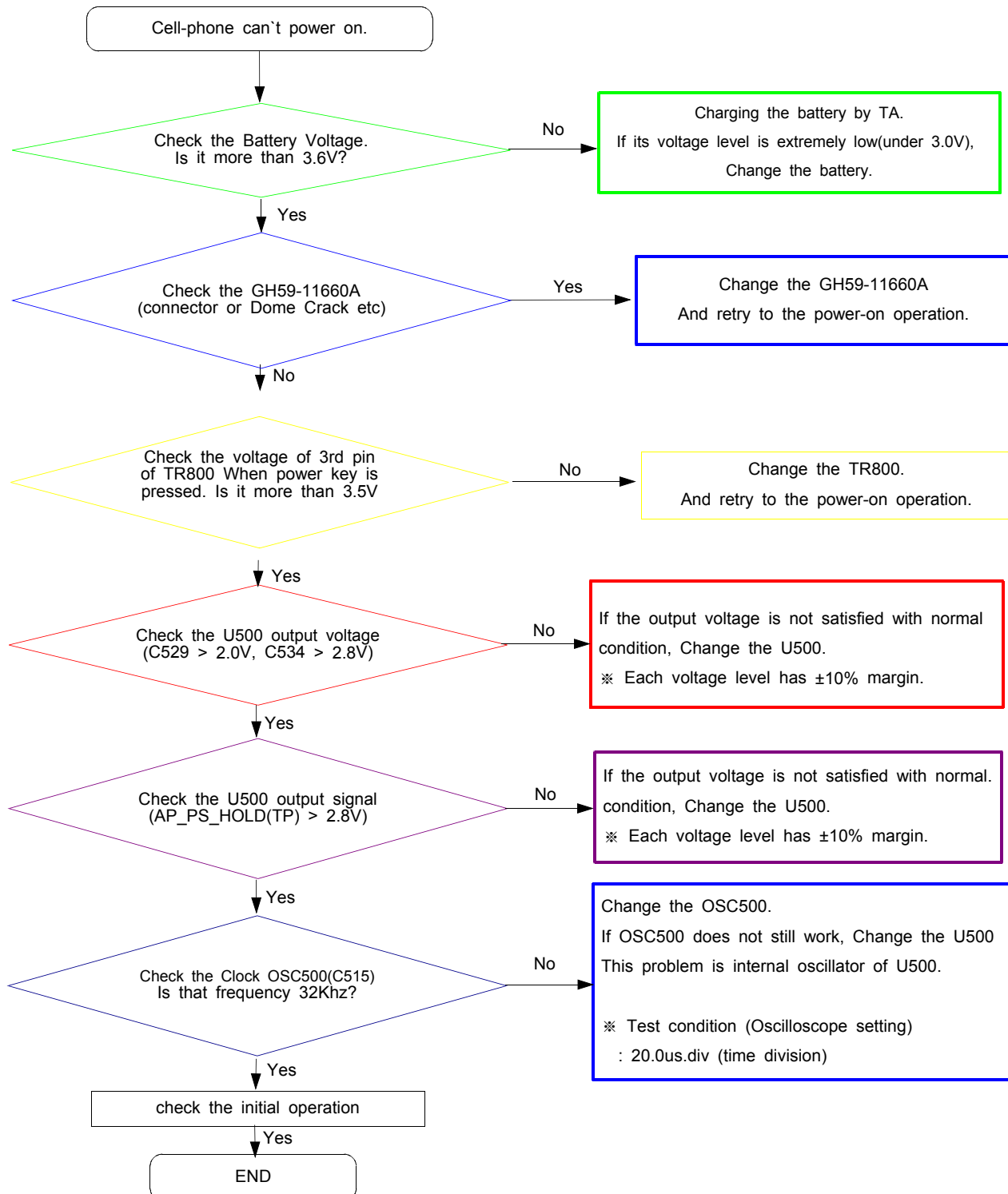


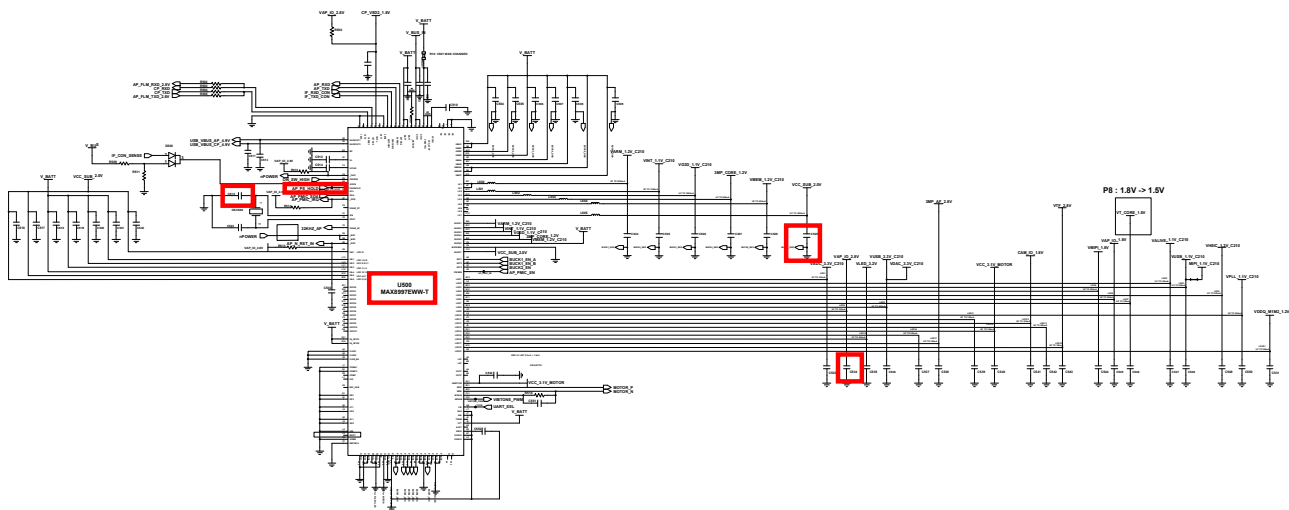
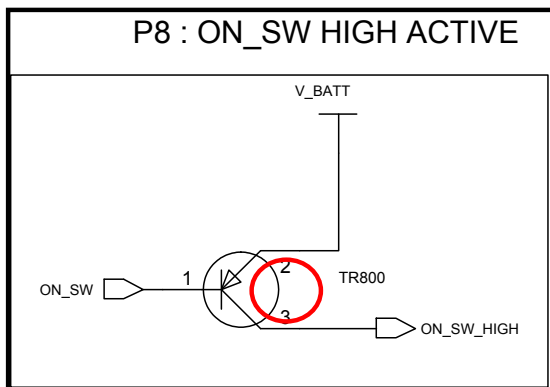
↑ 8960 & Spectrum Analyzer



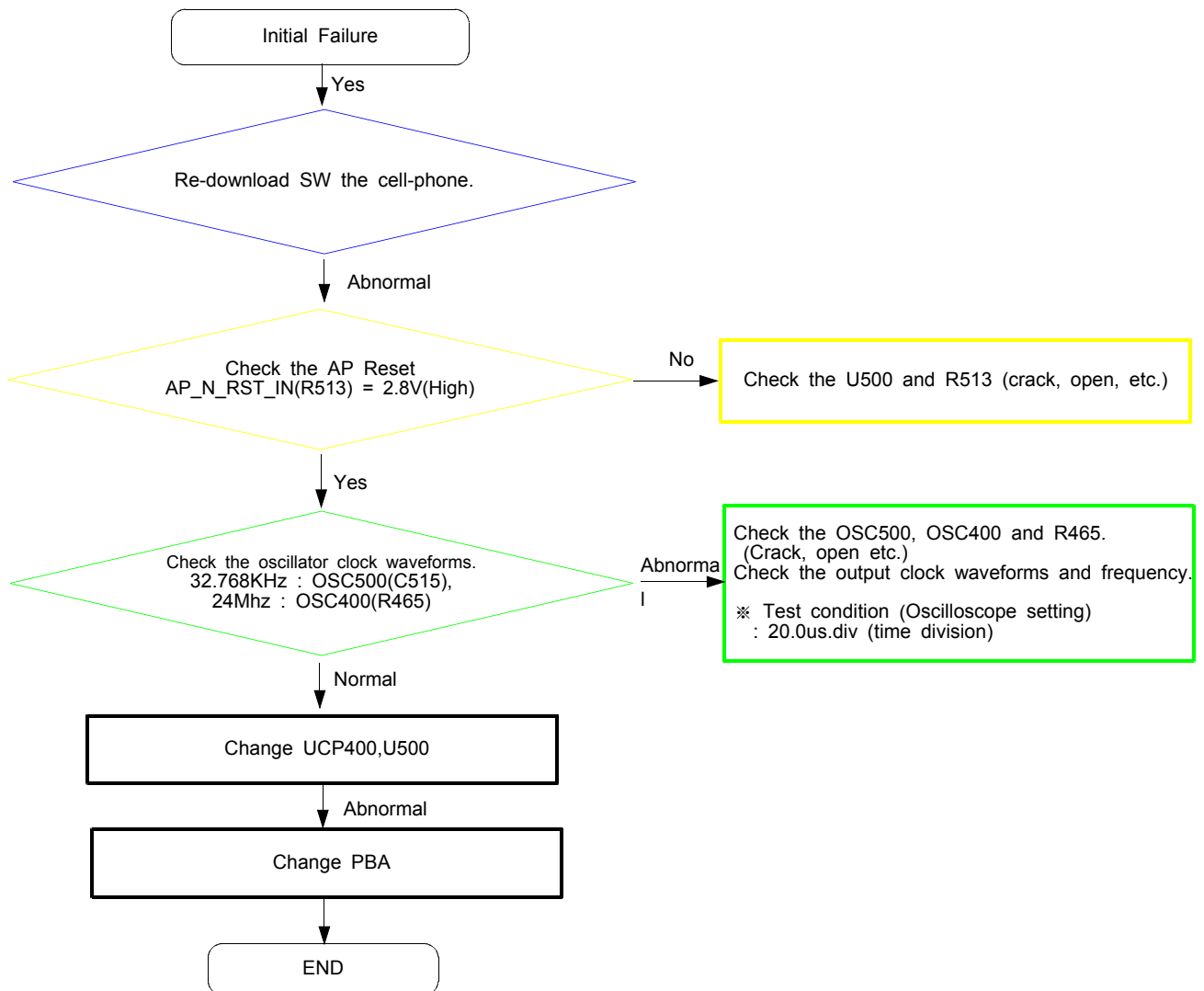
↑ Soldering iron

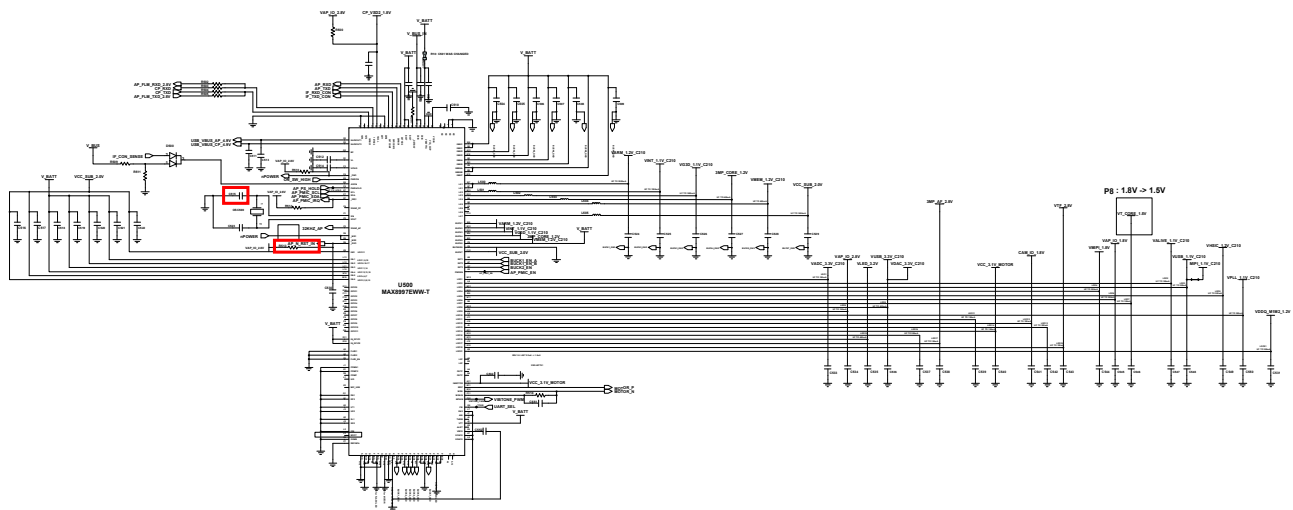
## 8-3-1. Power On



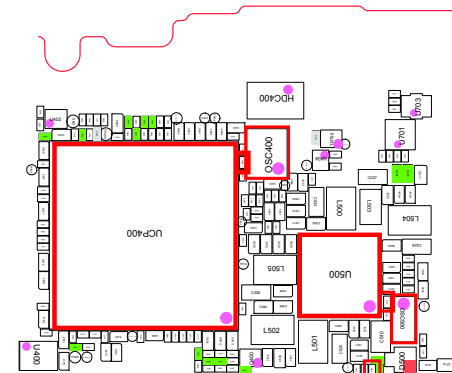
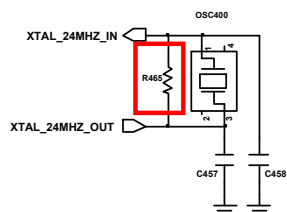


## 8-3-2. Initial

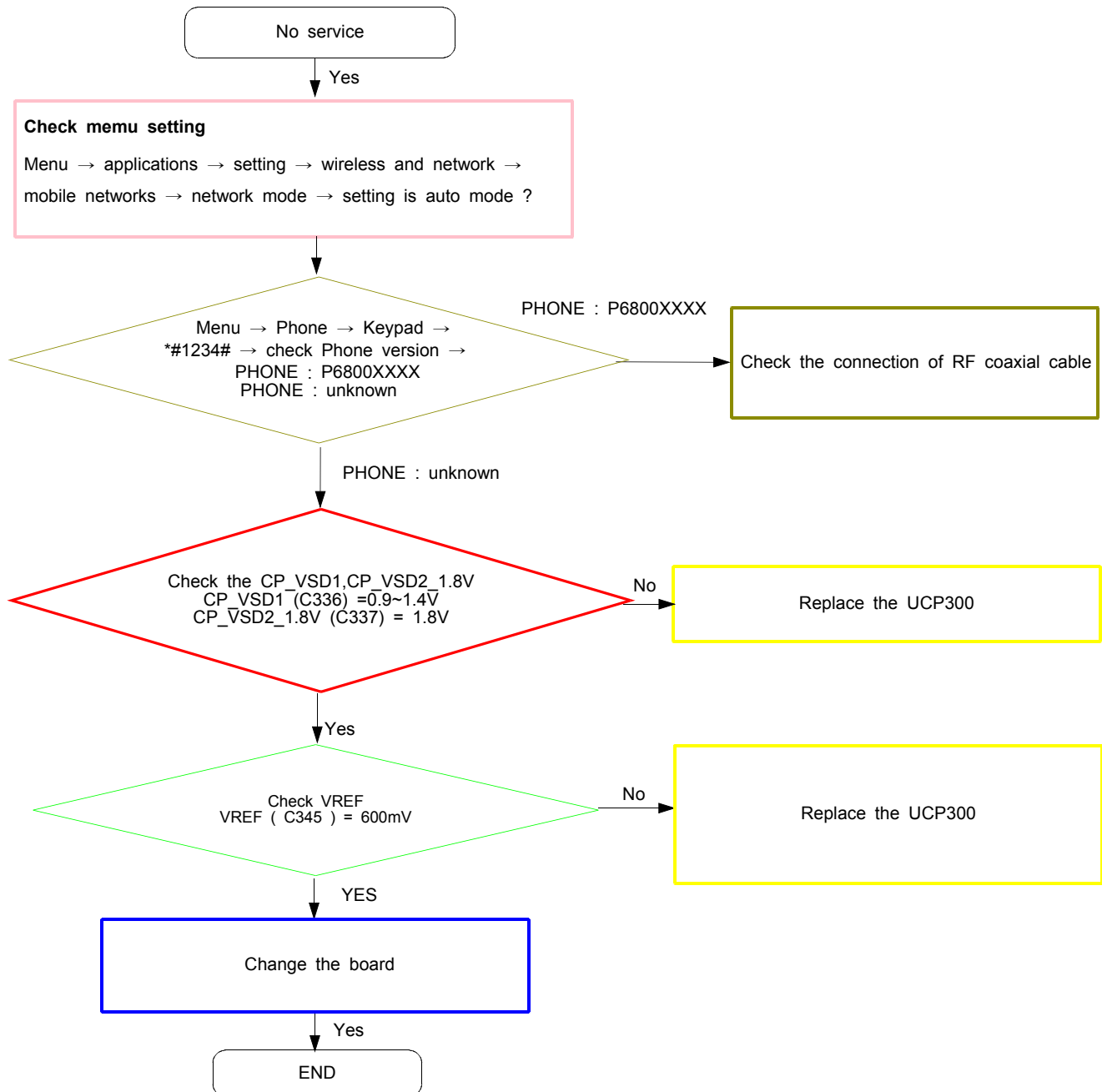




## AP CLOCK

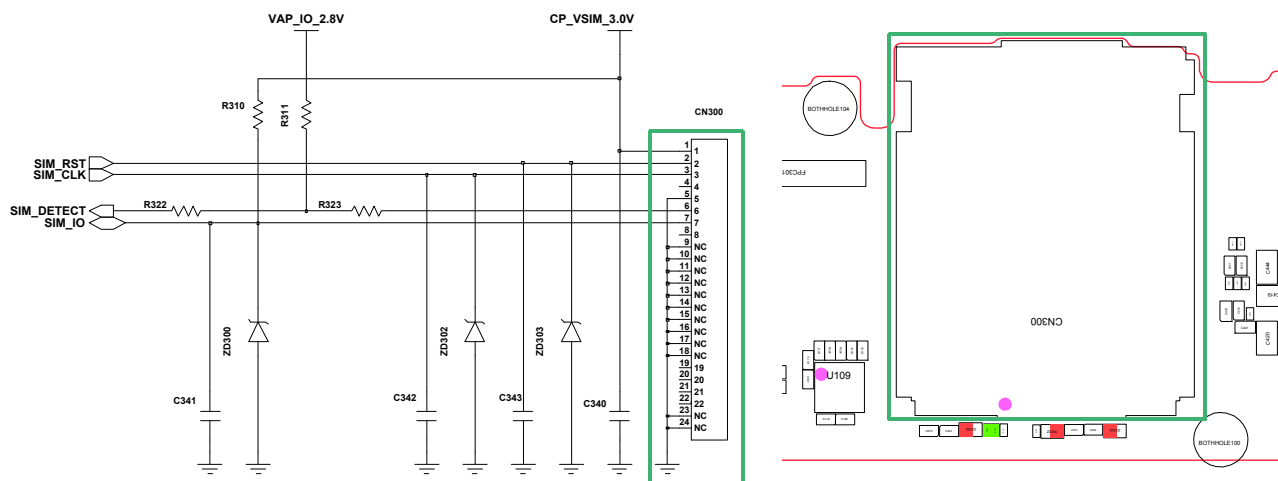
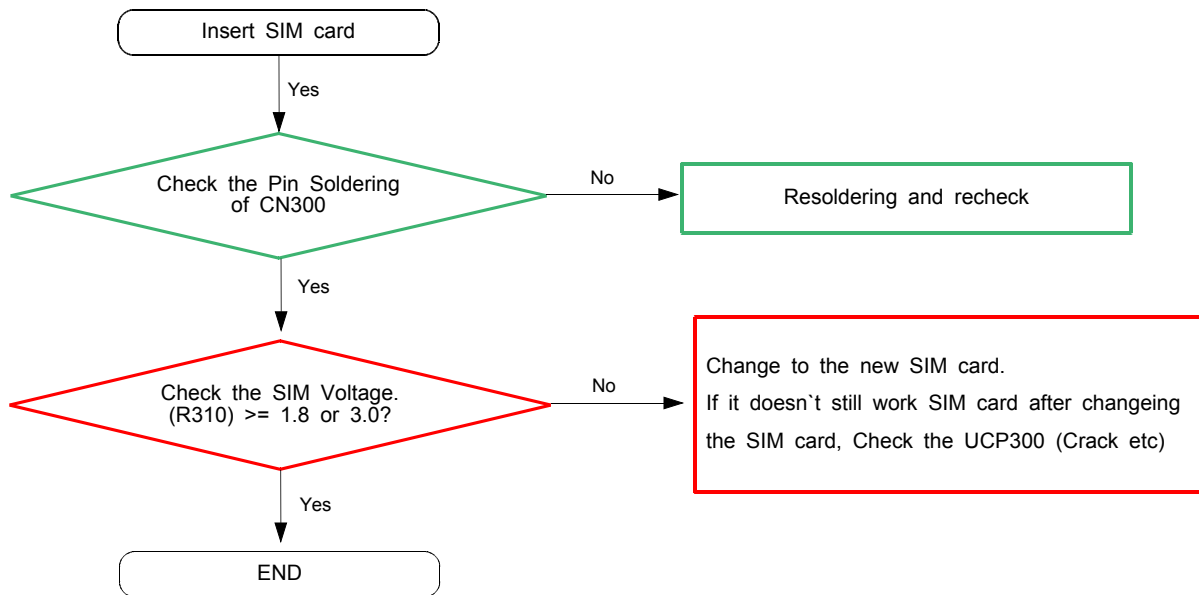


## 8-3-3. No Service

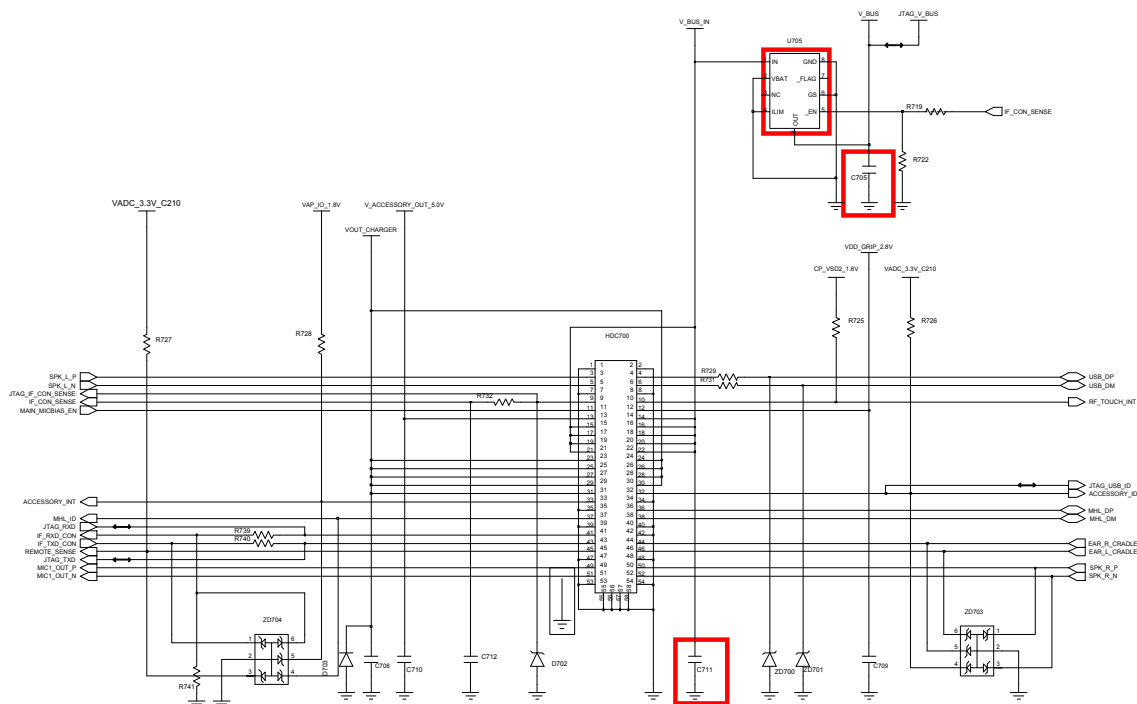
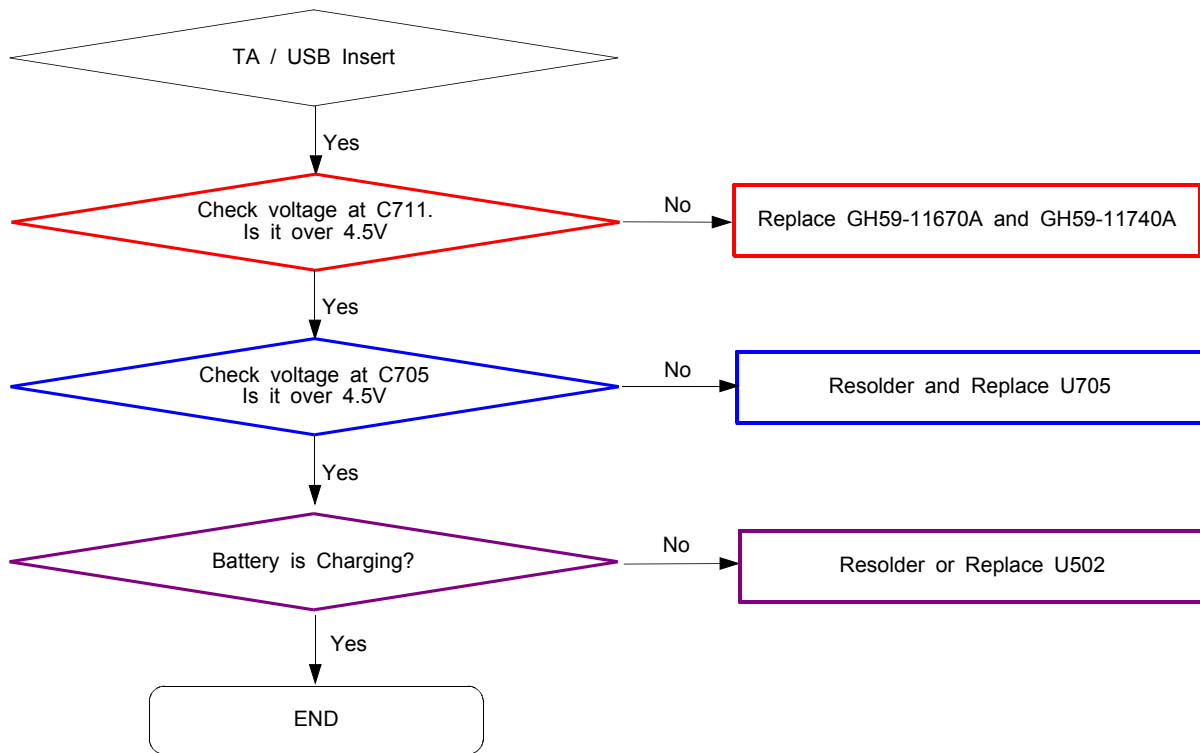


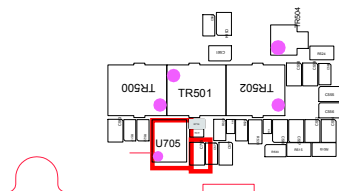
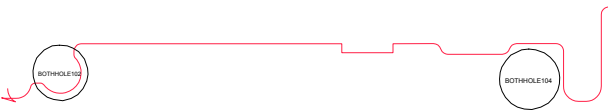


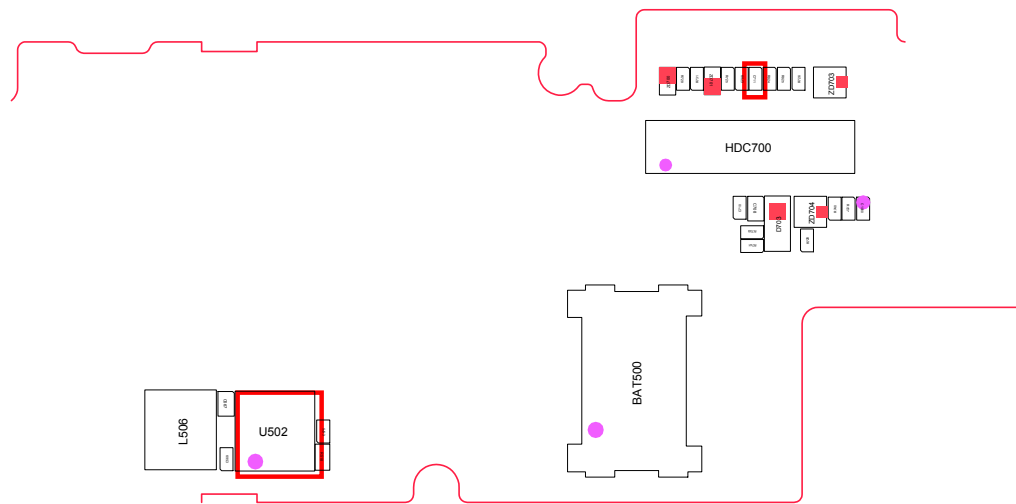
## 8-3-4. Sim Part



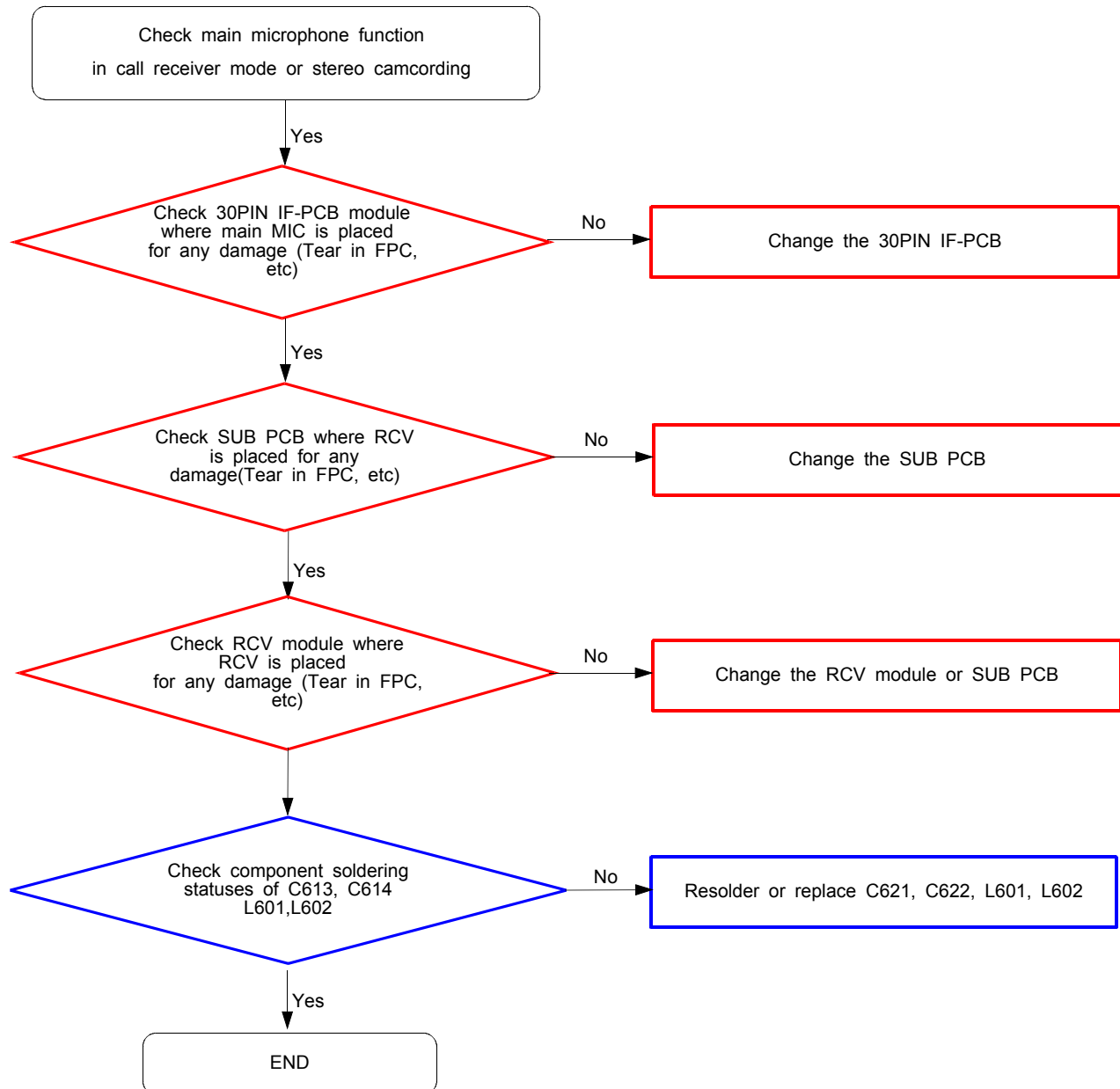
### 8-3-5. Charging Part

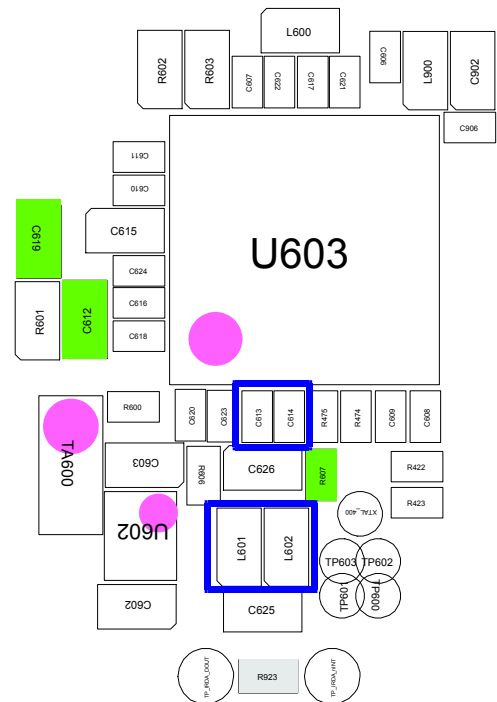




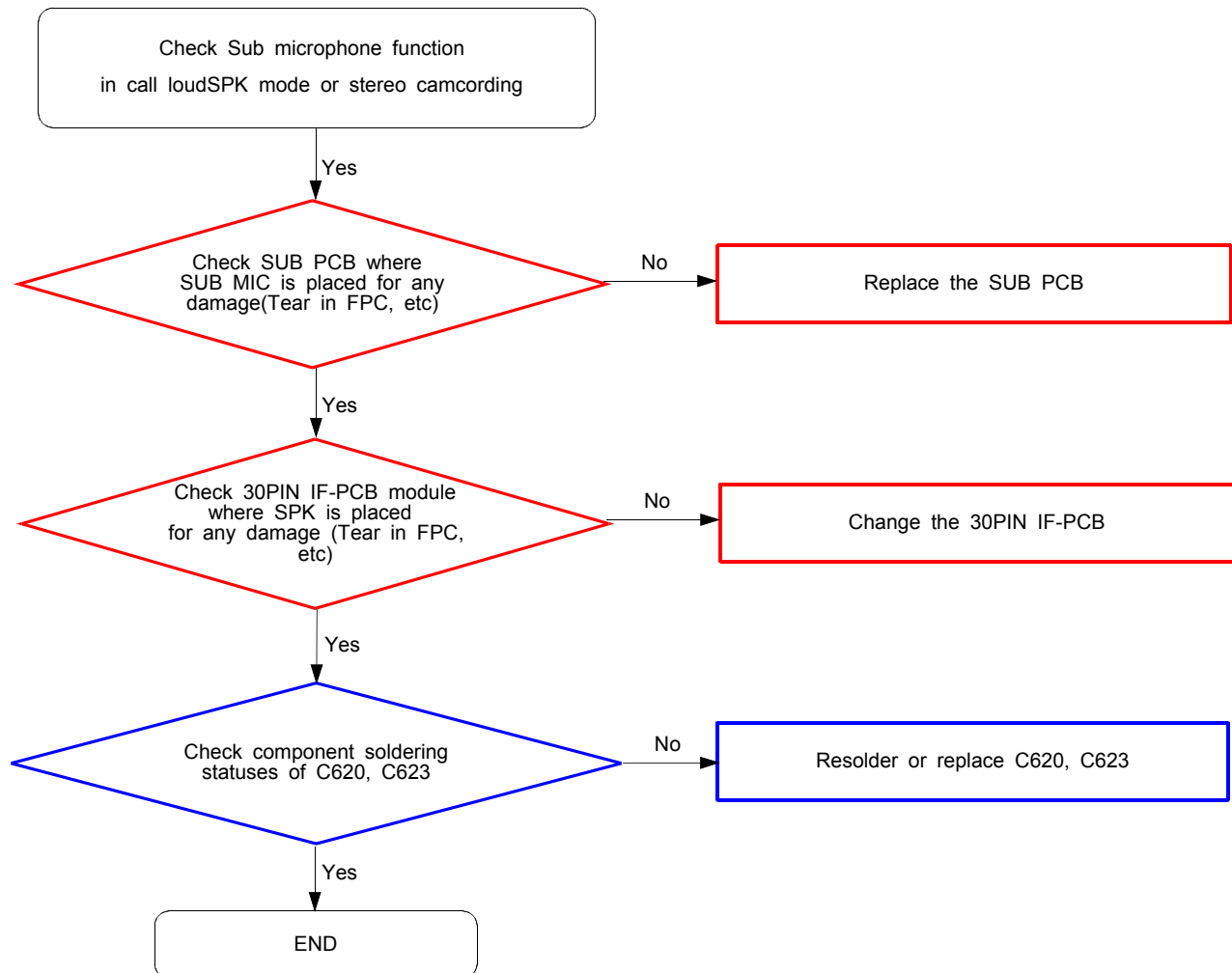


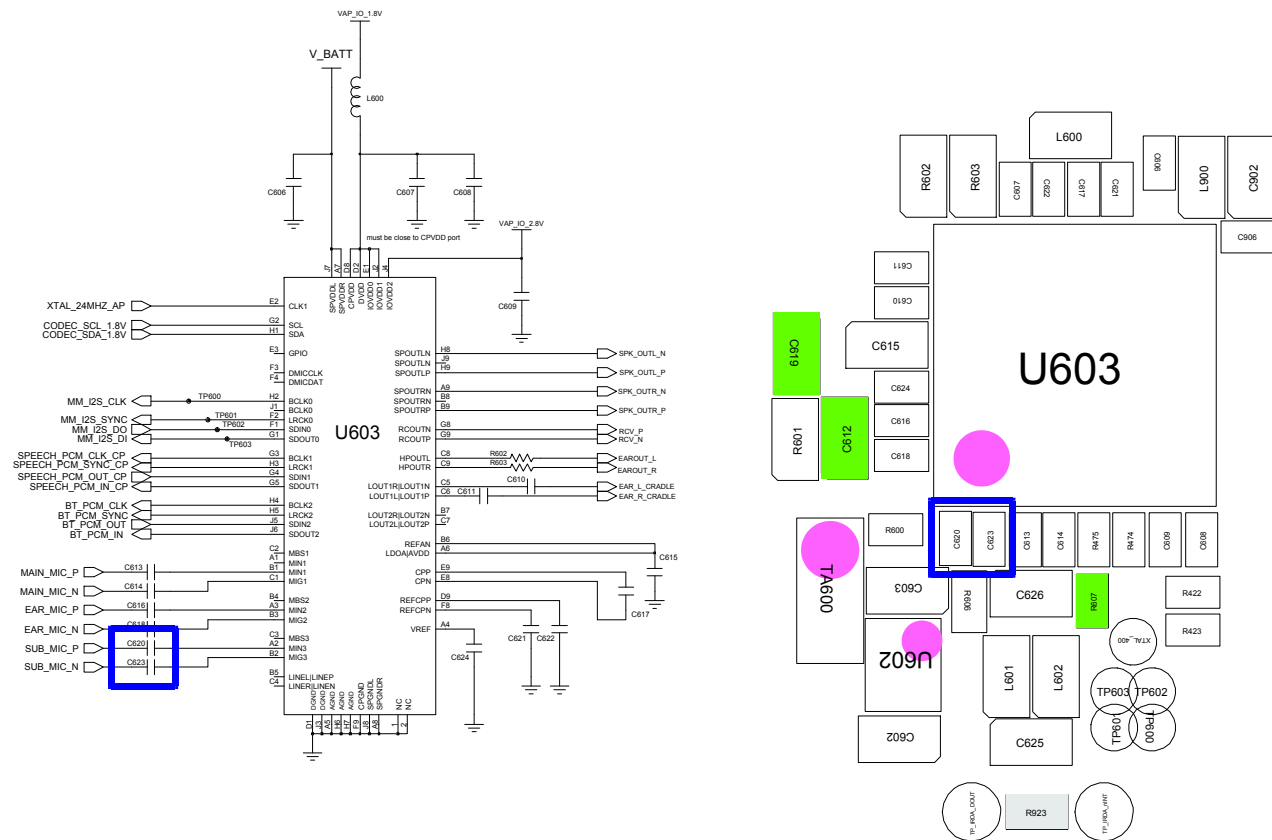
## 8-3-6. Microphone Part (Main MIC)



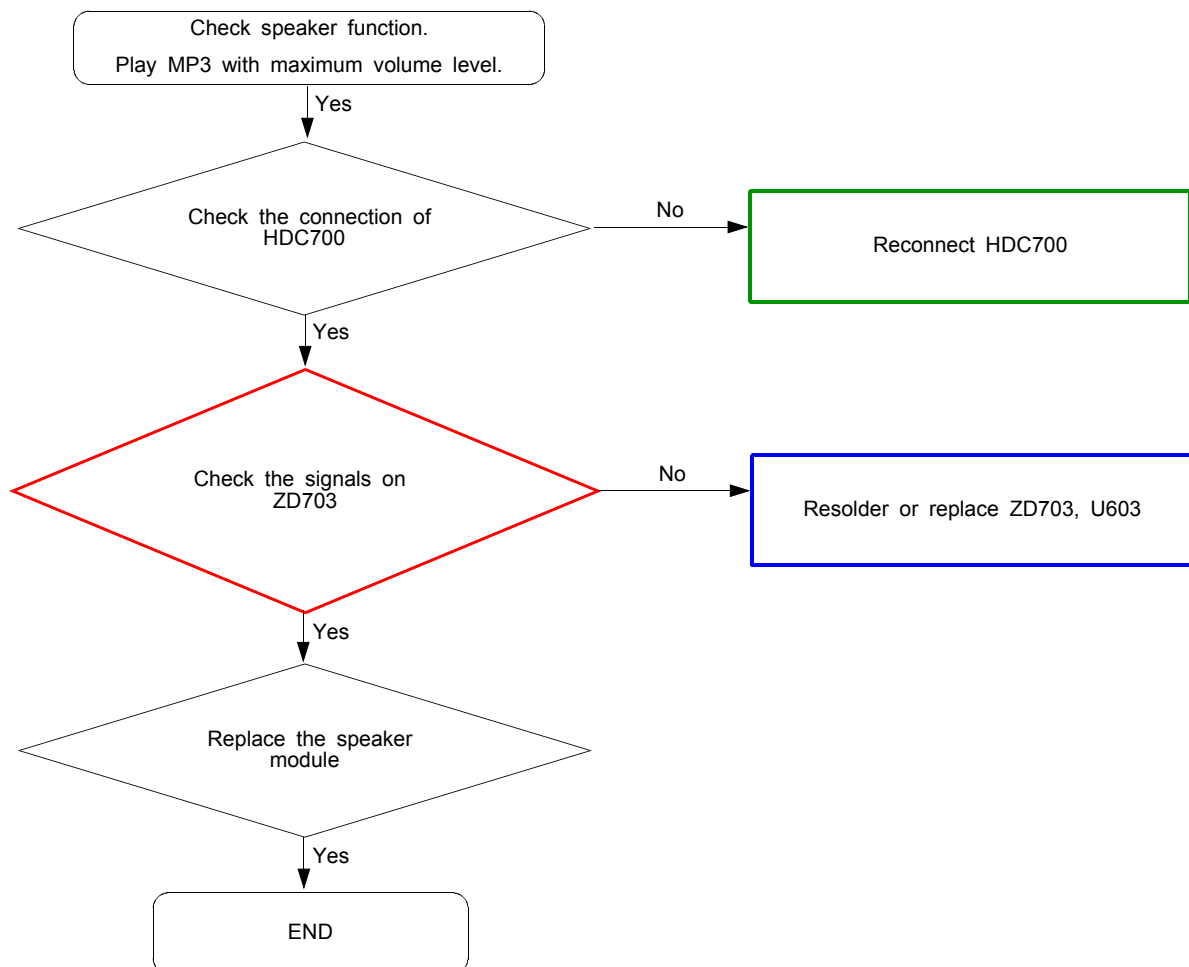


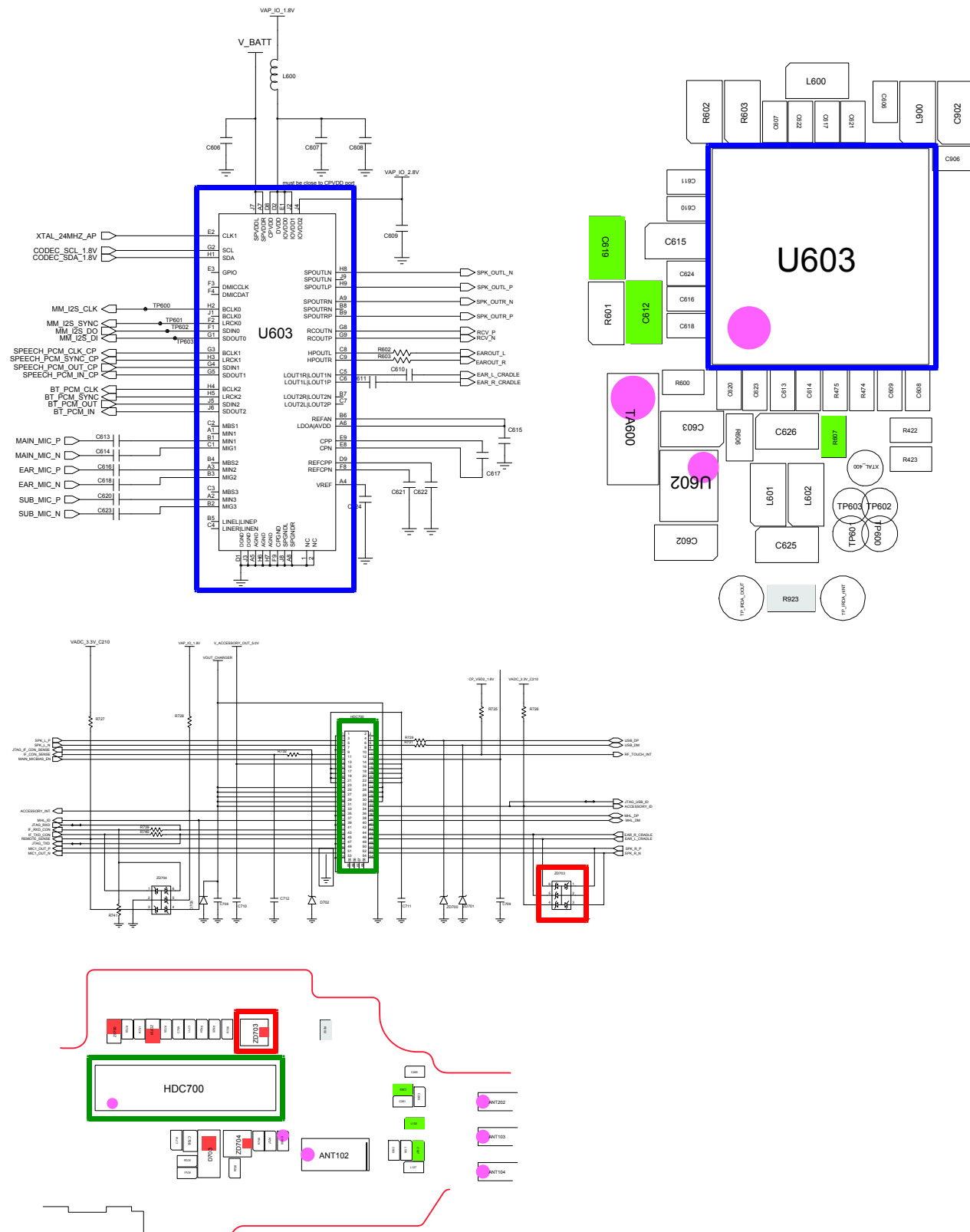
## 8-3-6-1. Microphone Part (SUB MIC)



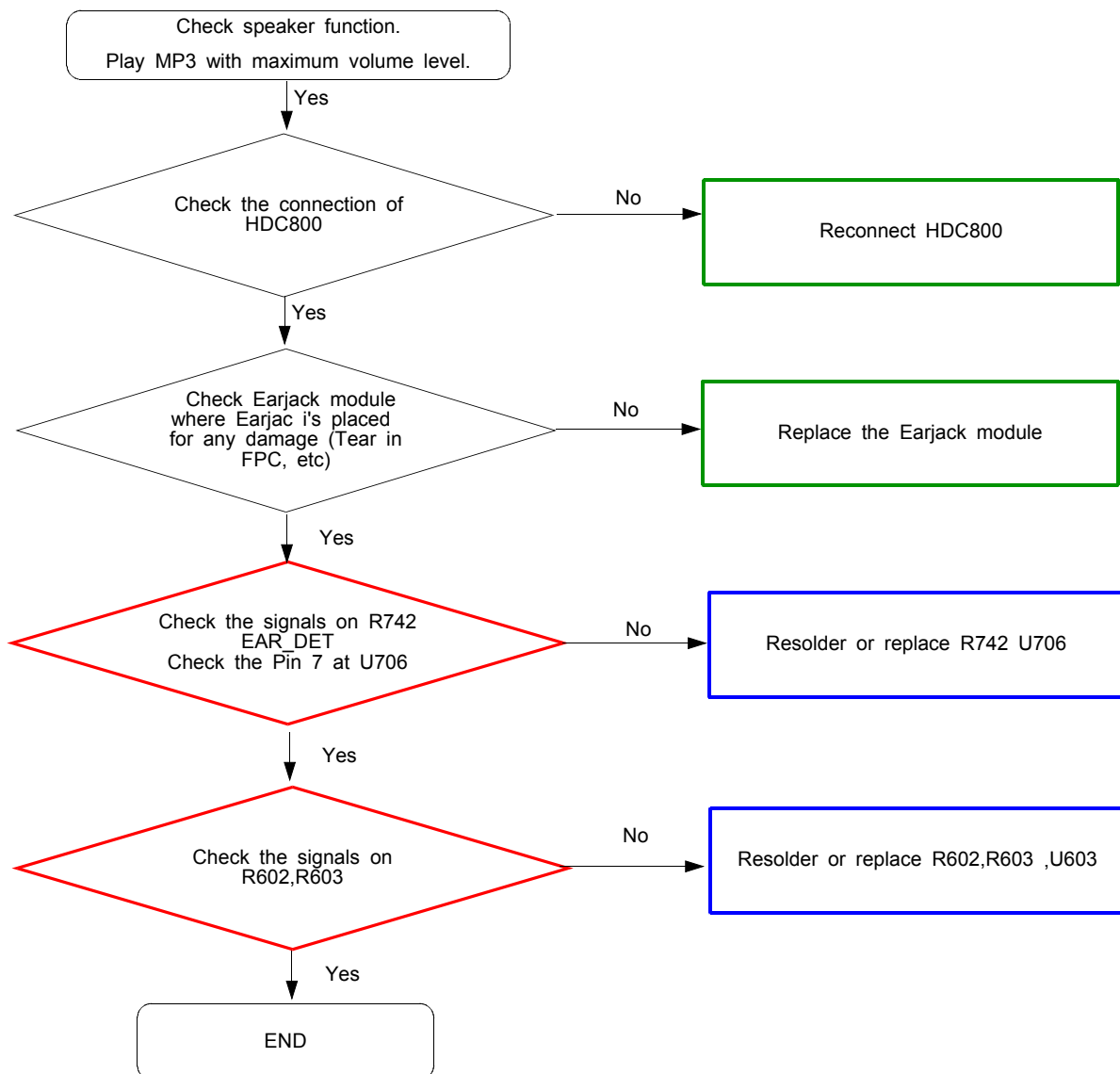


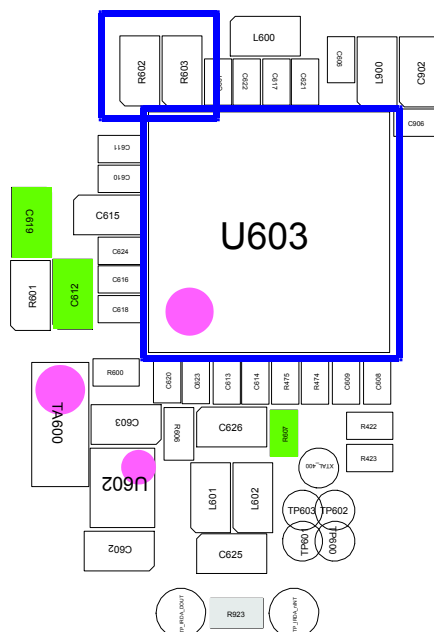
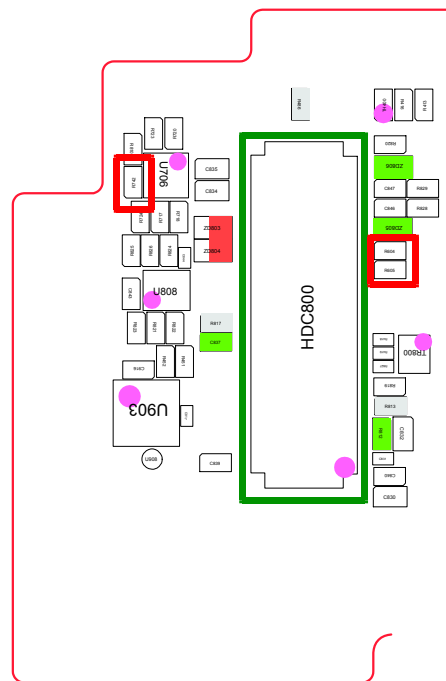
## 8-3-7. Speaker Part



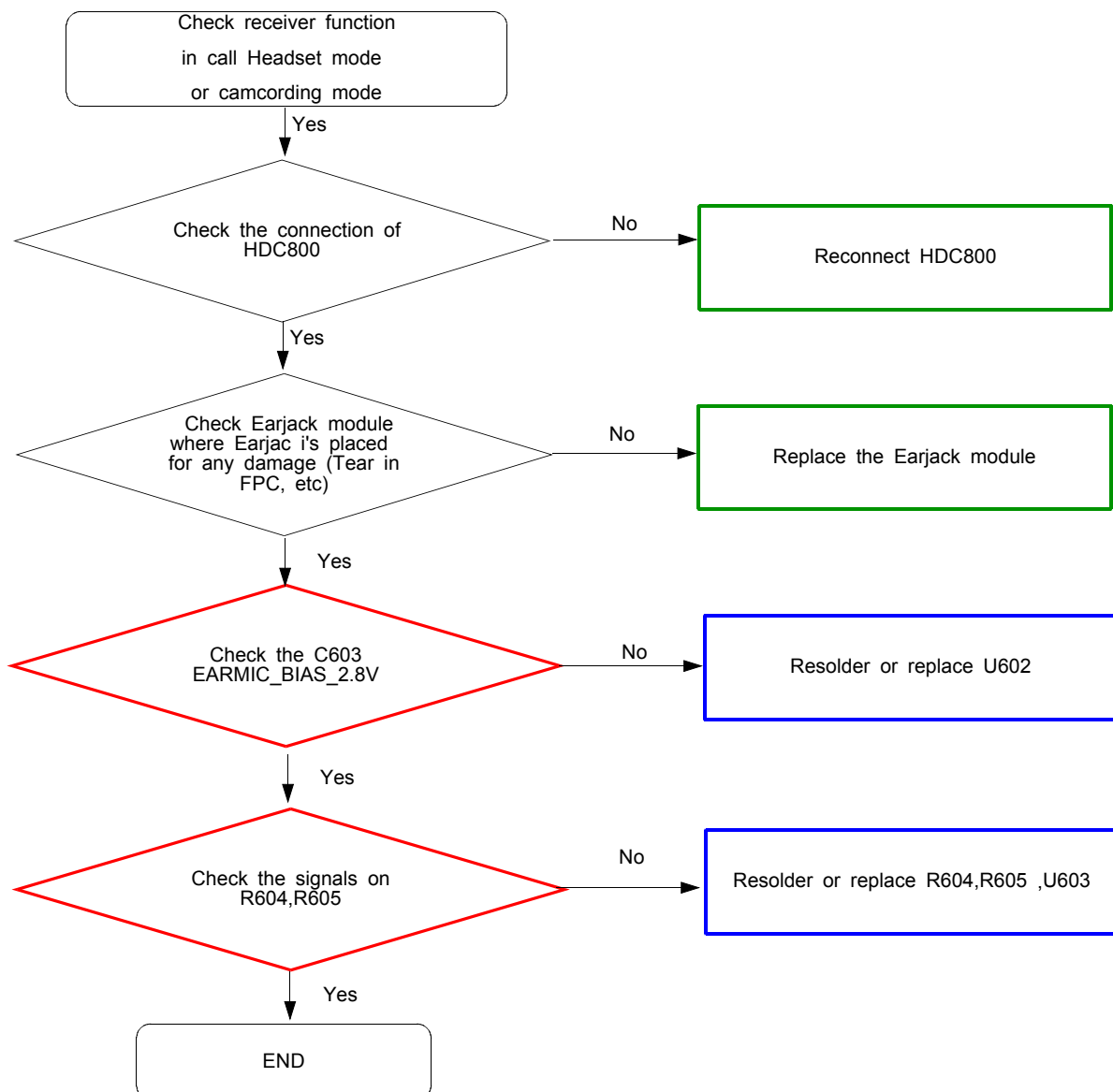


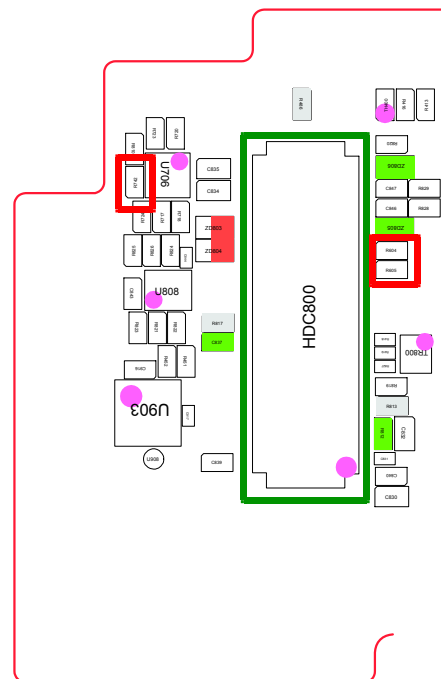
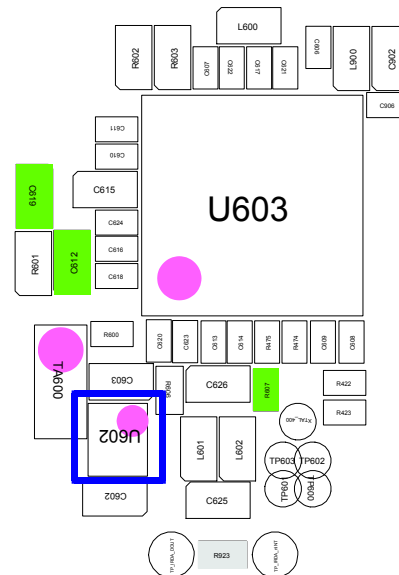
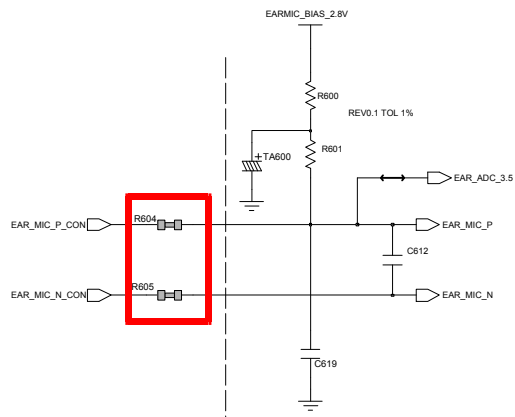
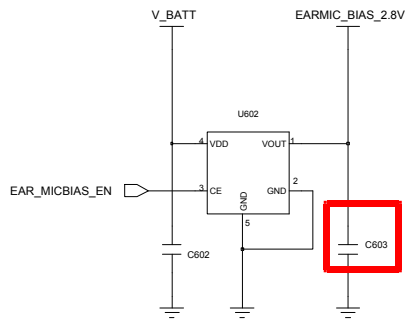
## 8-3-8. Ear Part (RCV)



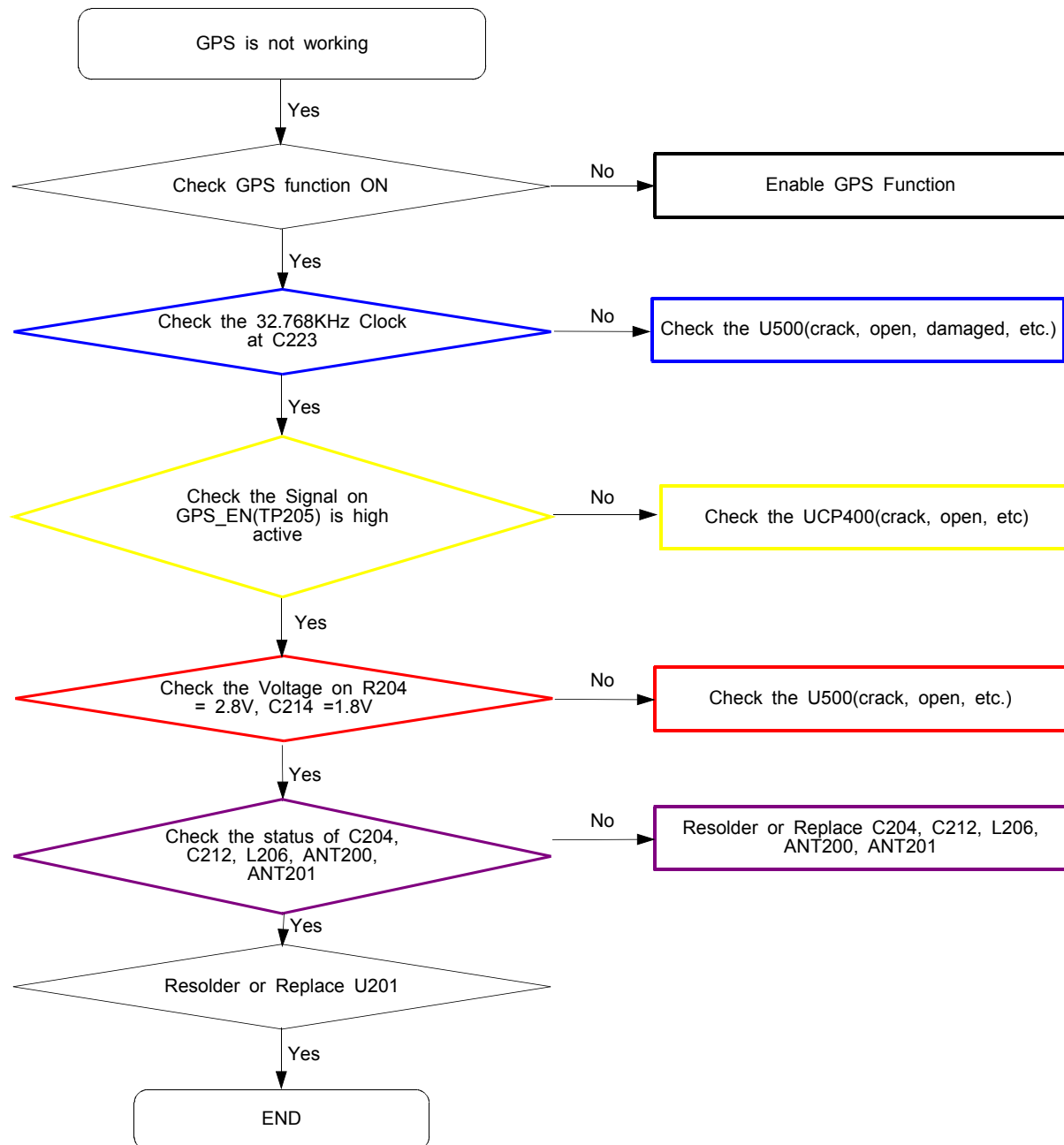


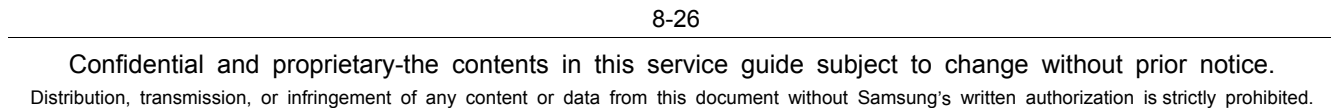
## 8-3-9. Ear Part (MIC)

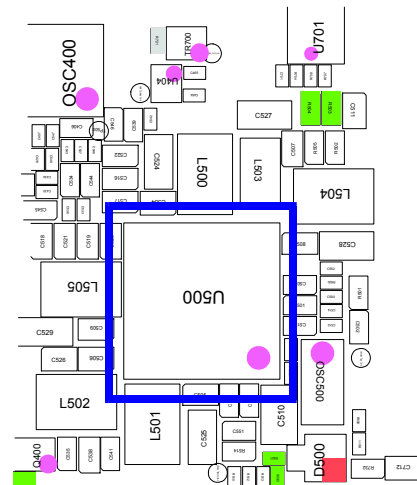
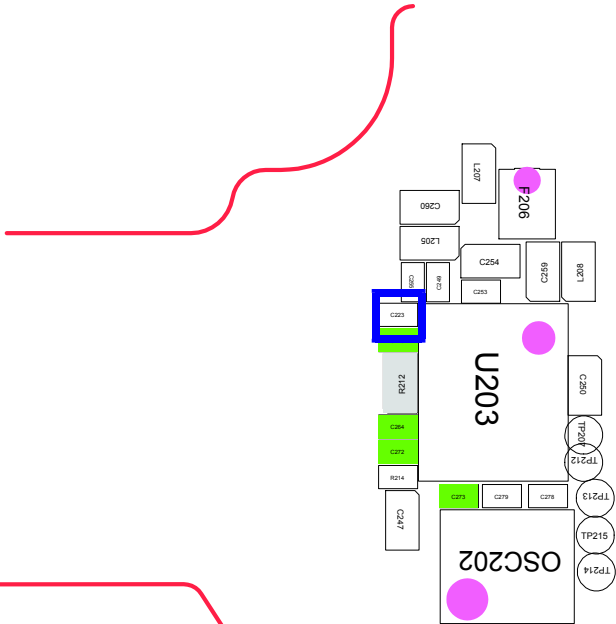




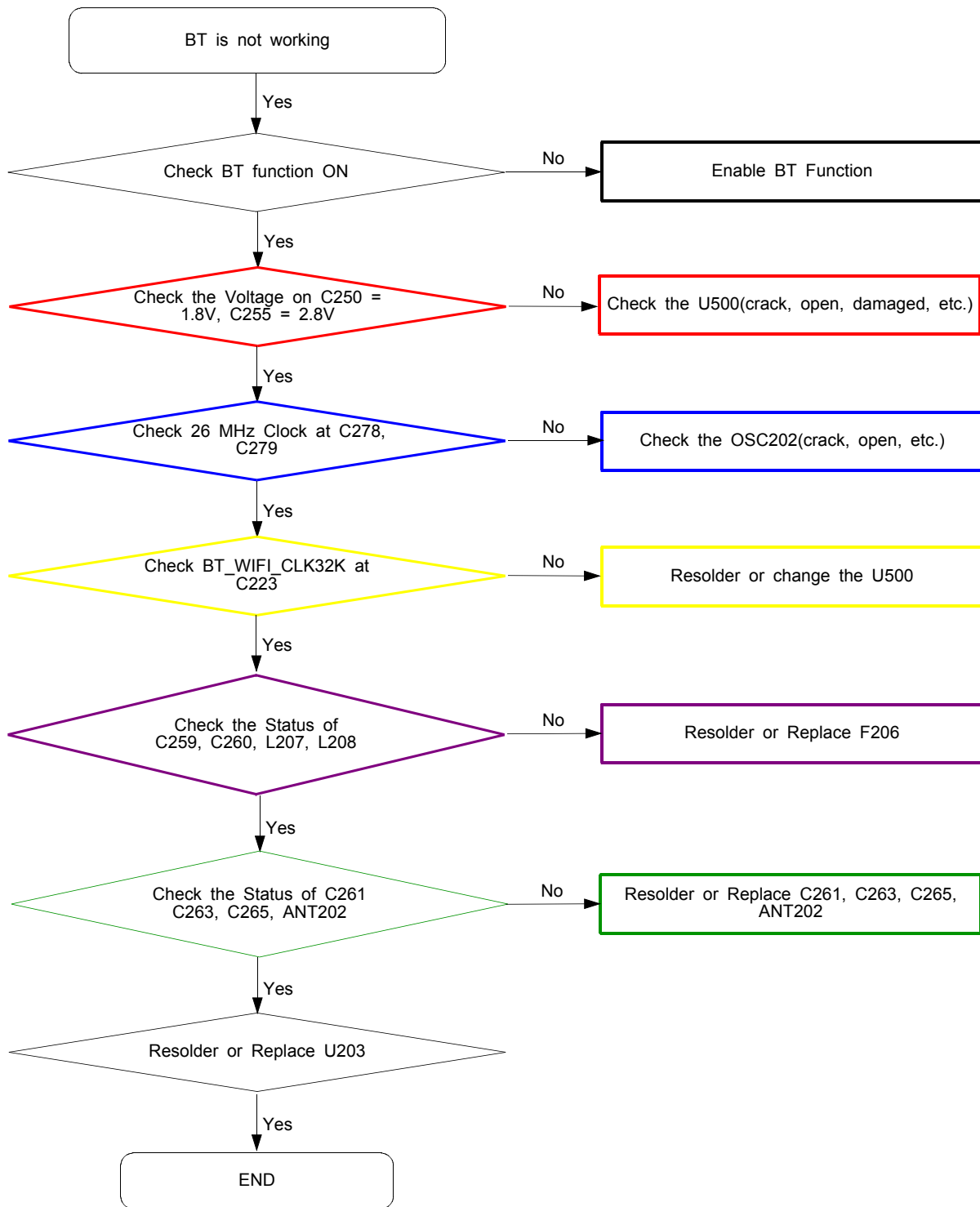
## 8-3-10. GPS

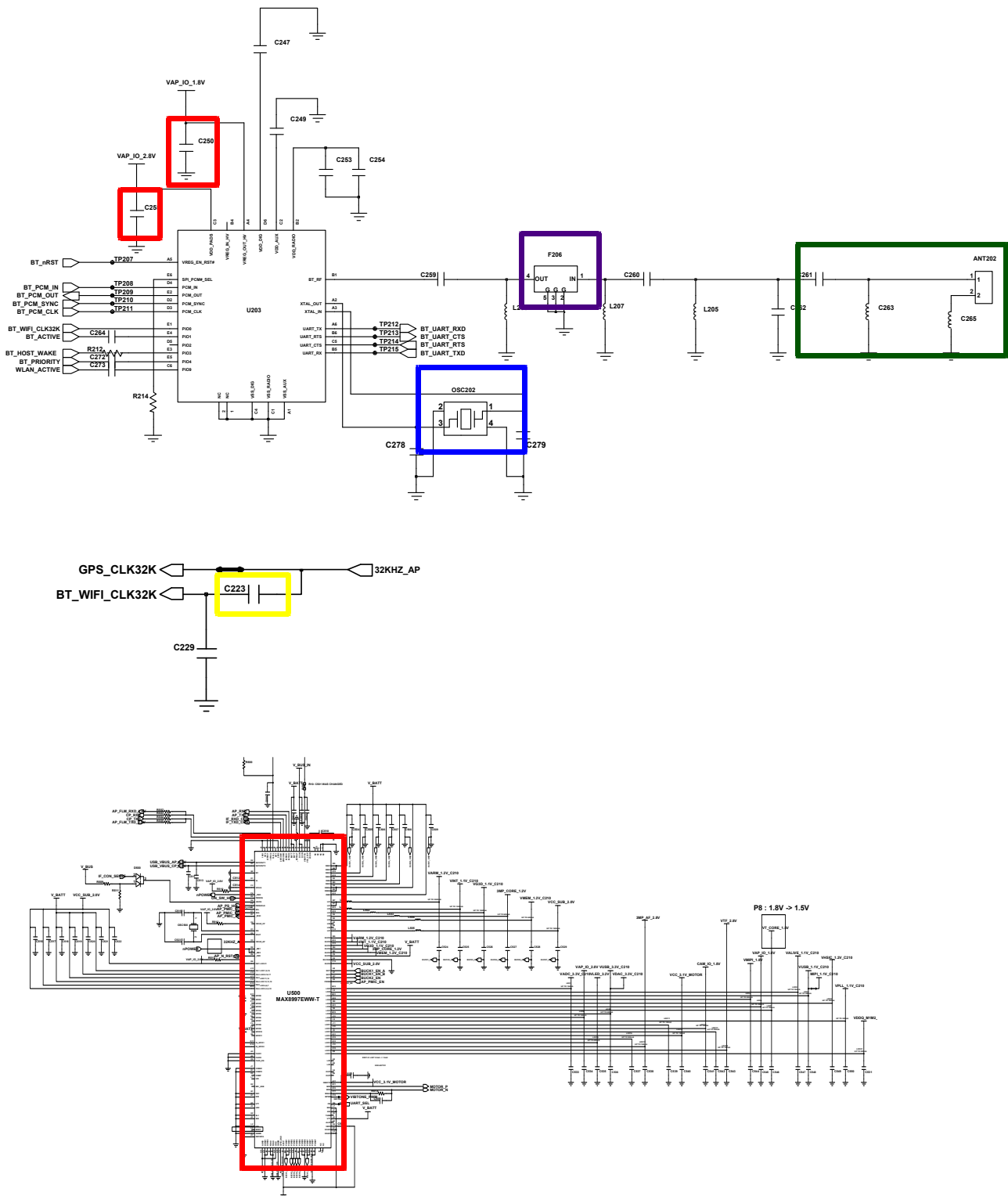


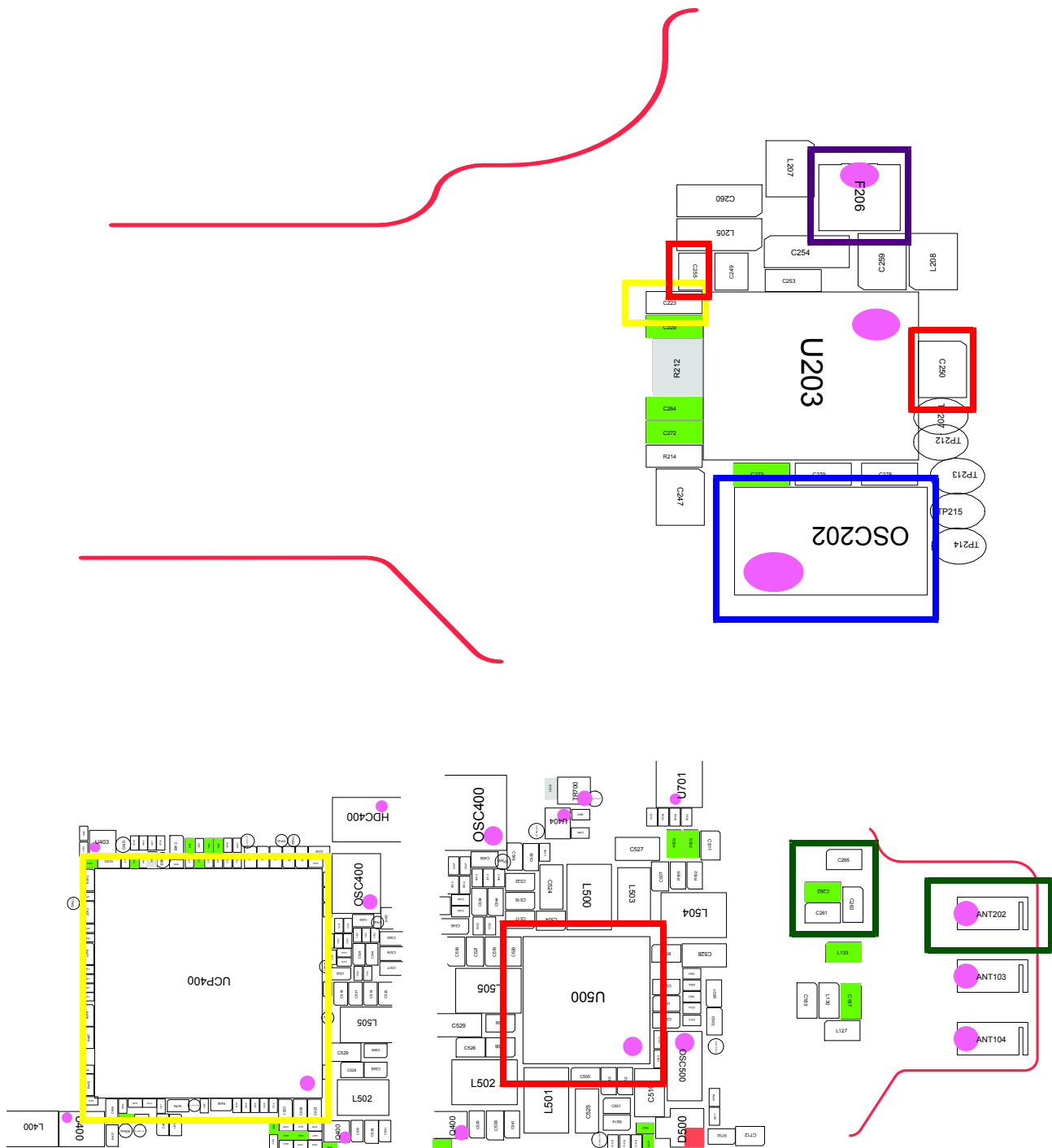




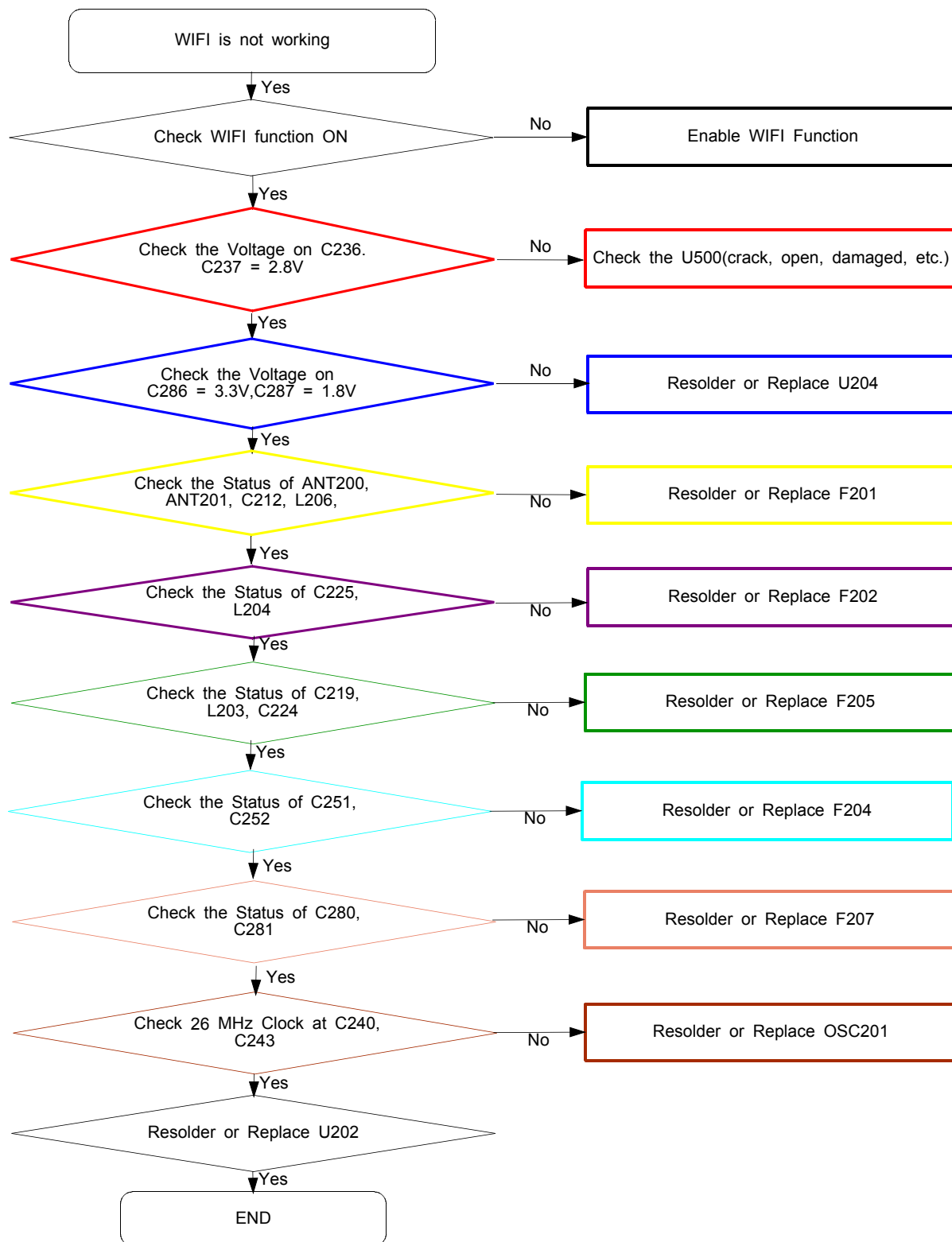
### 8-3-11. BT

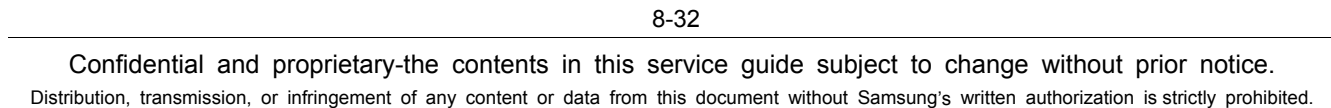


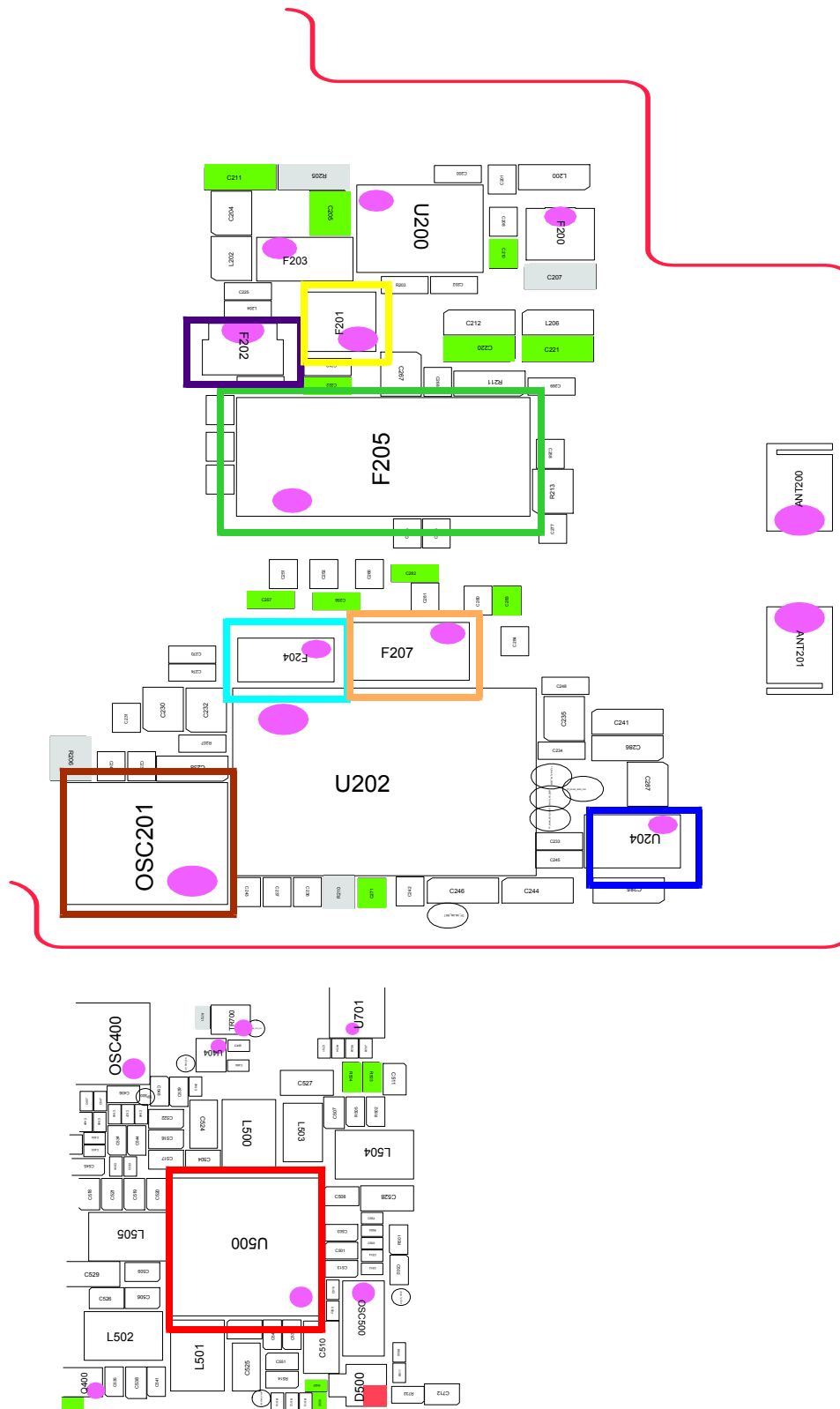




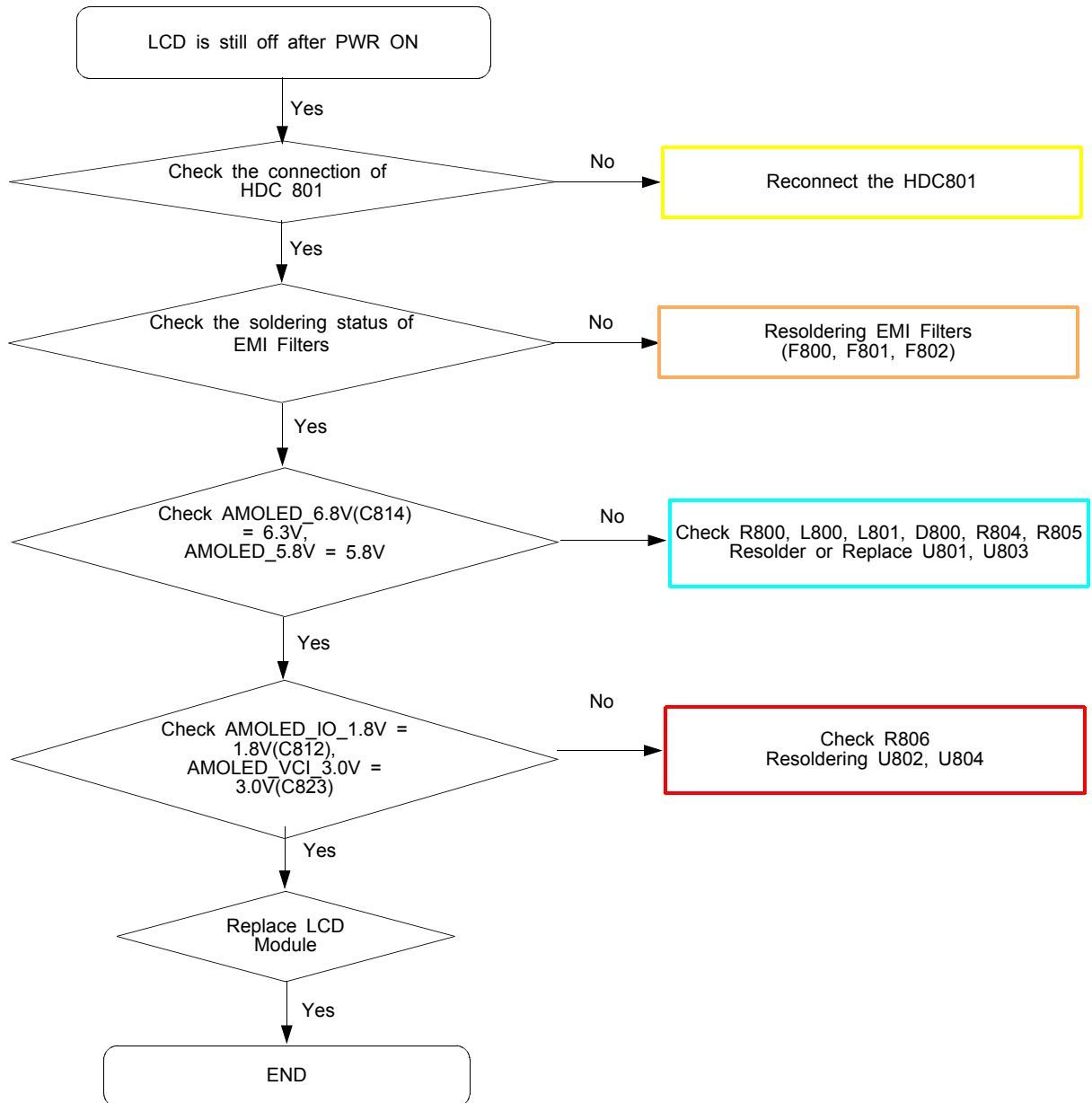
## 8-3-12. WIFI

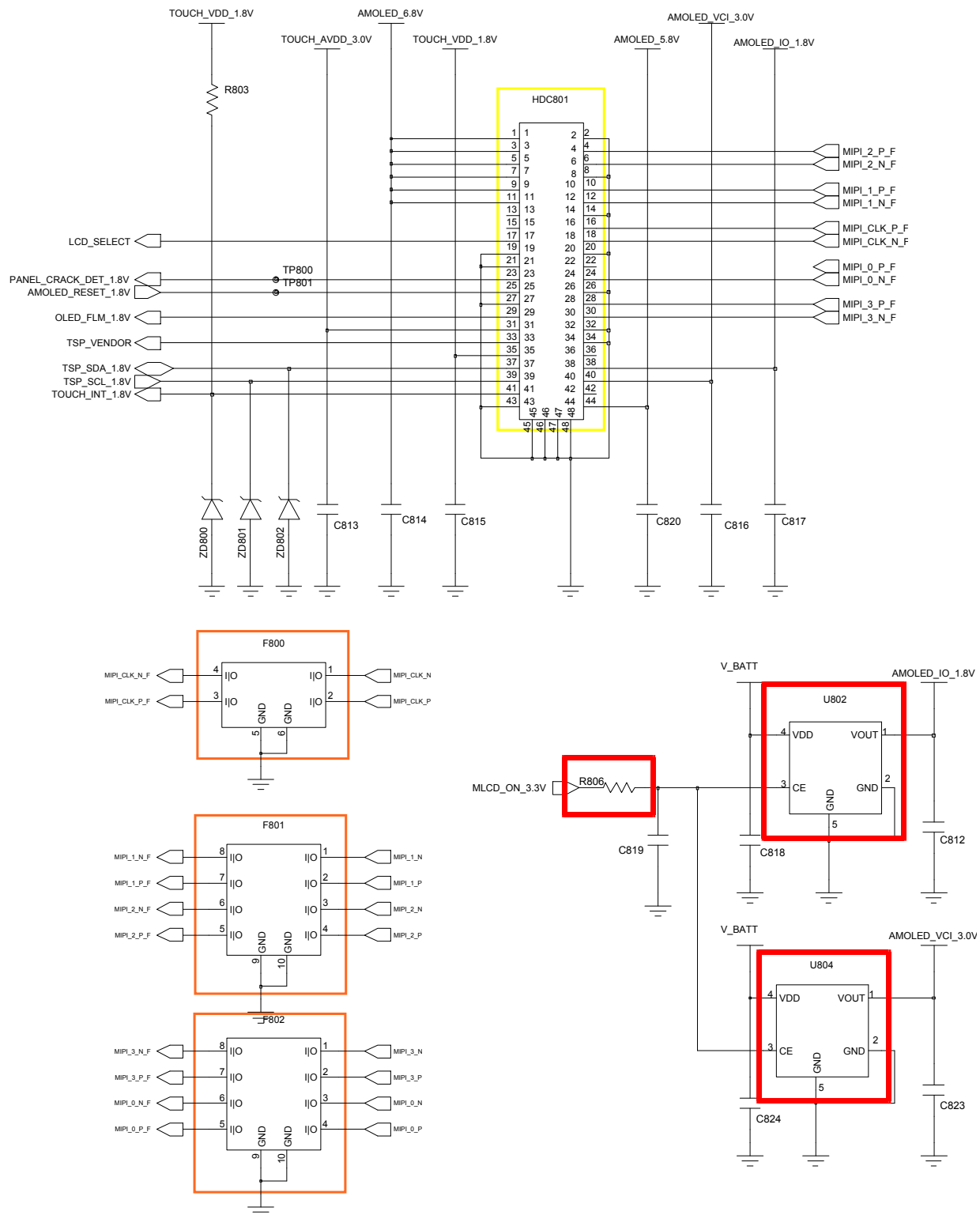


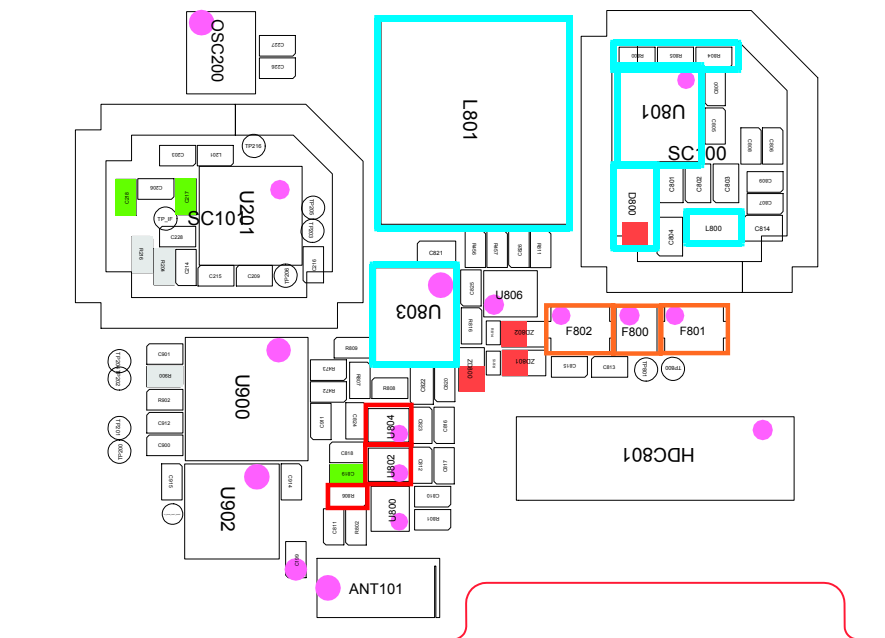
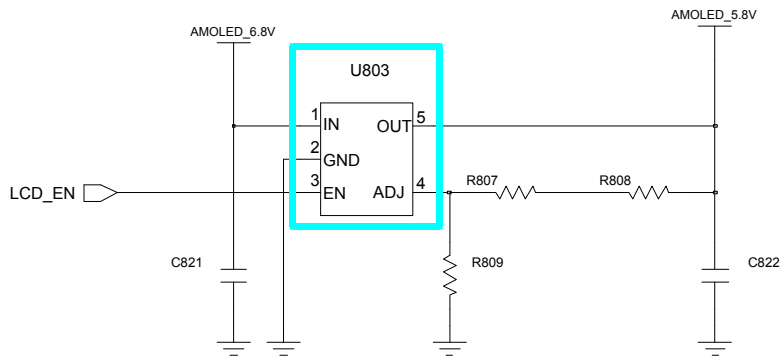
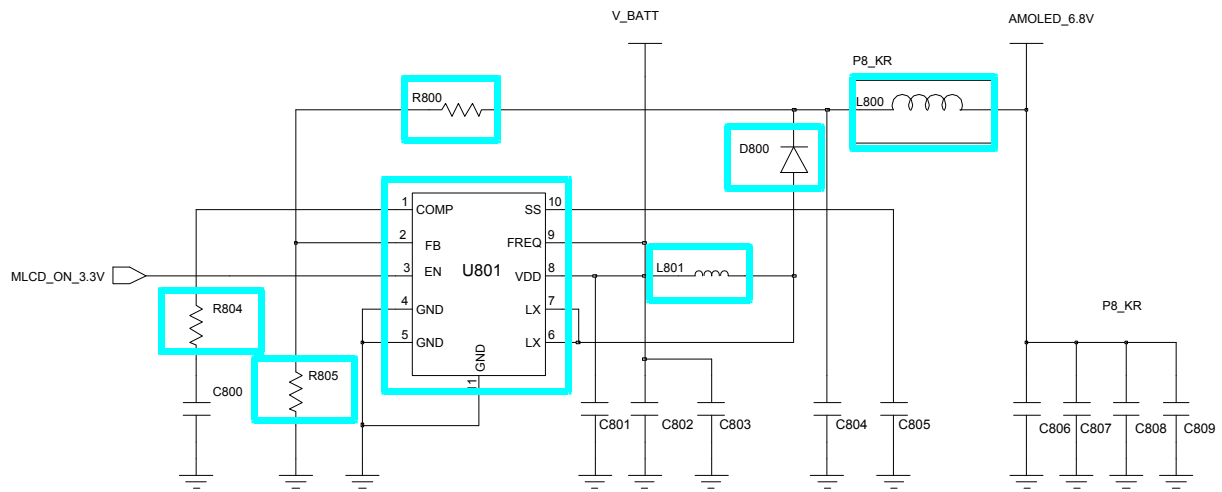




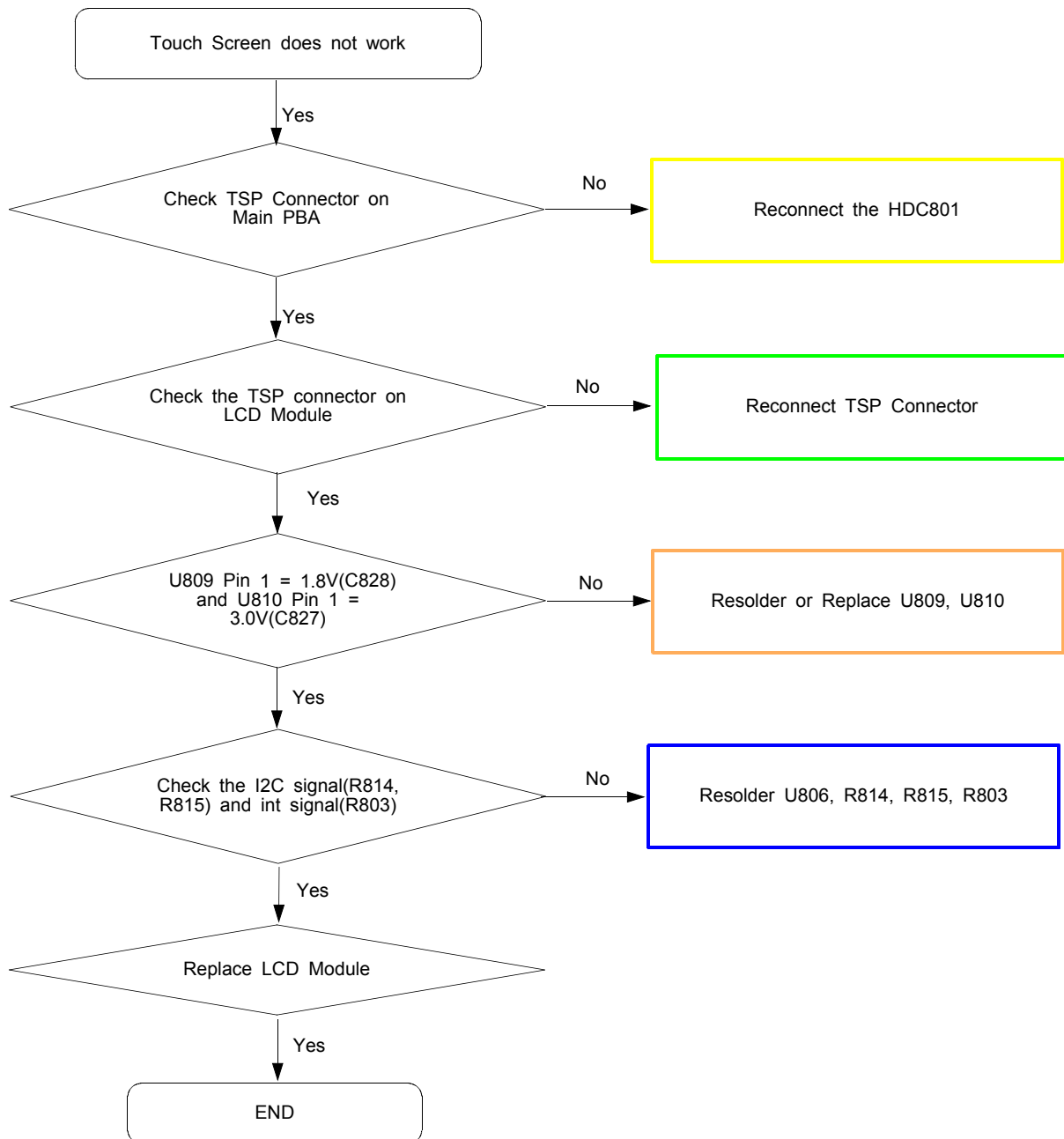
## 8-3-13. LCD

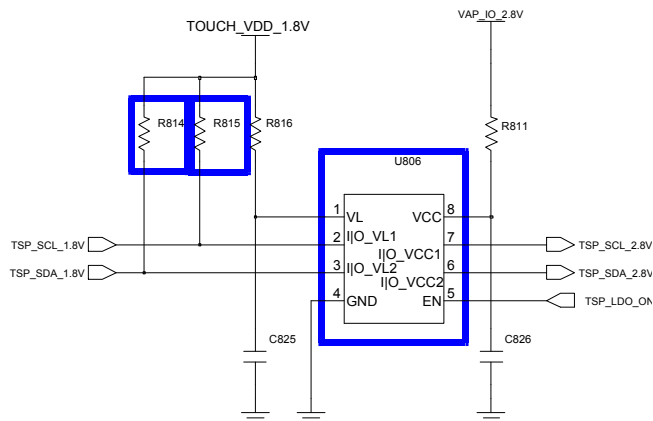
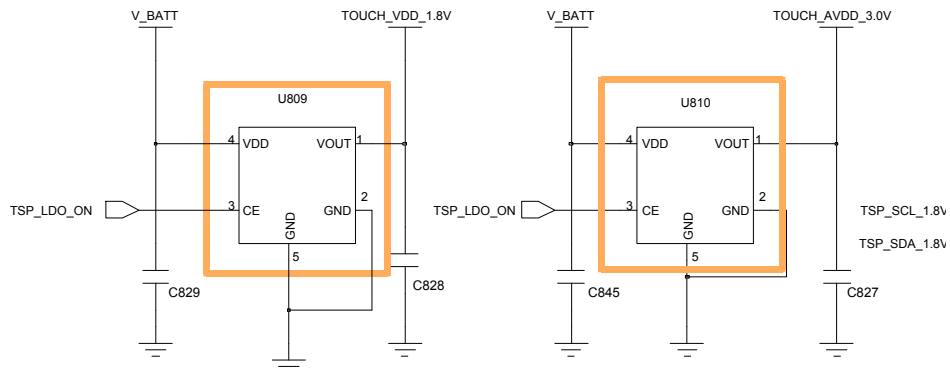
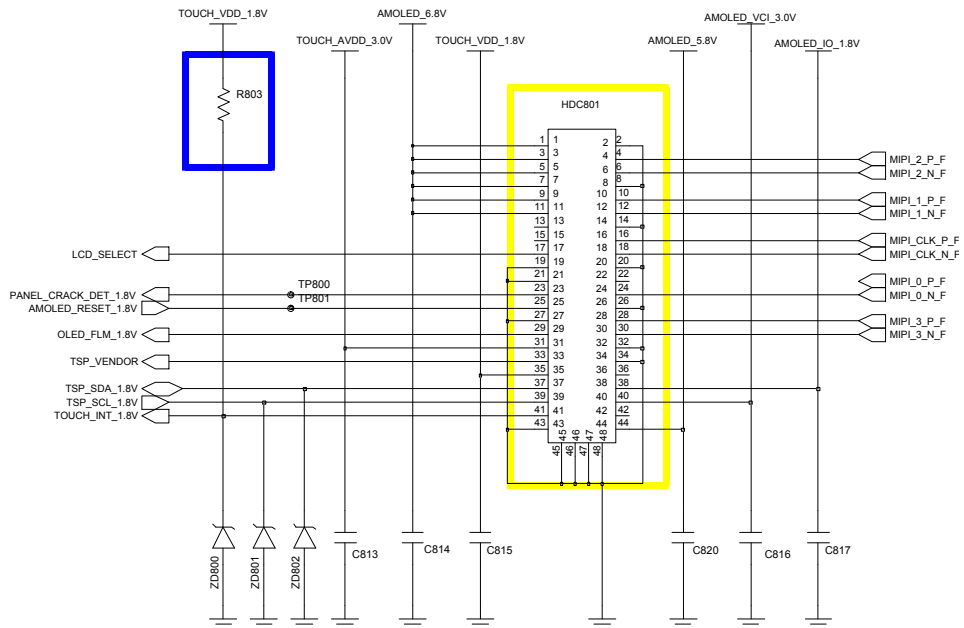


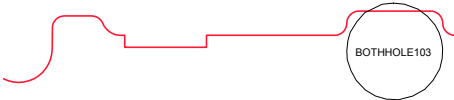




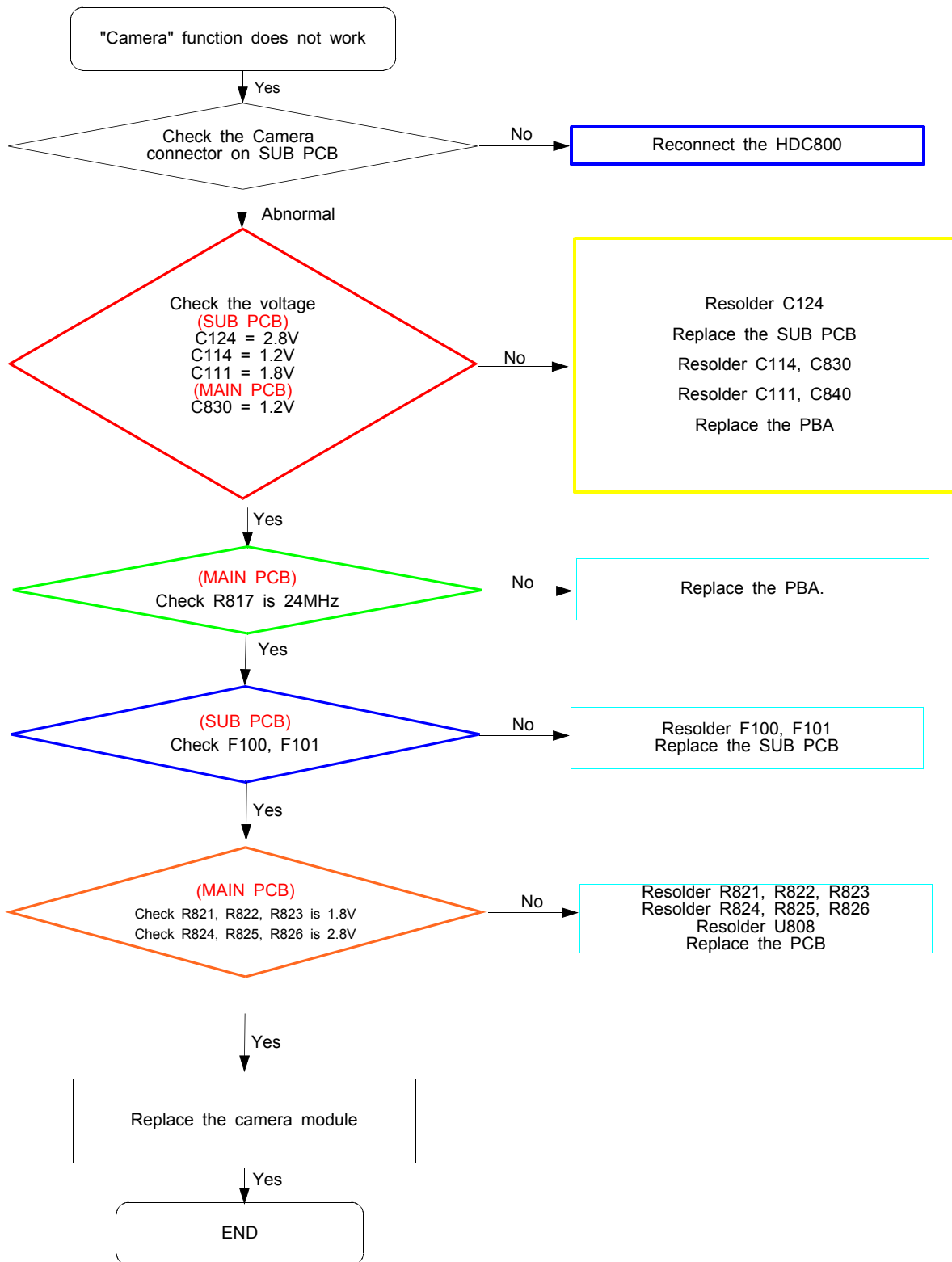
## 8-3-14. TSP



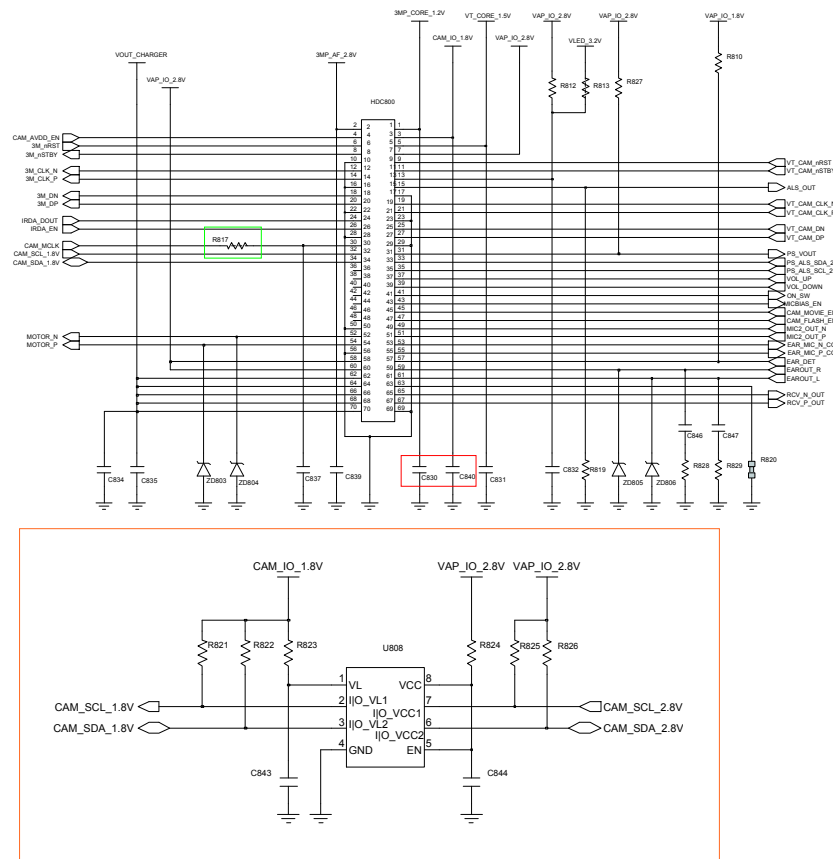




### 8-3-15. 3M CAM

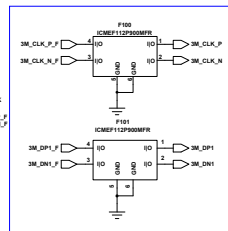
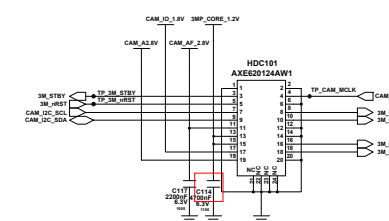


# Main PCB

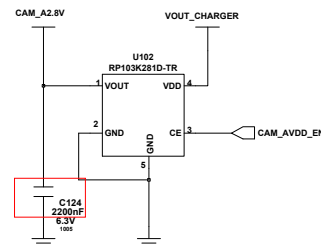


# SUB PCB

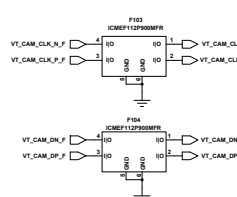
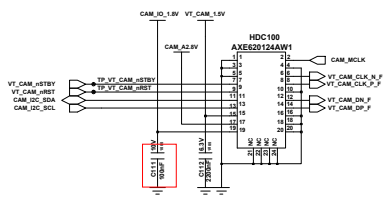
## 3M CAM

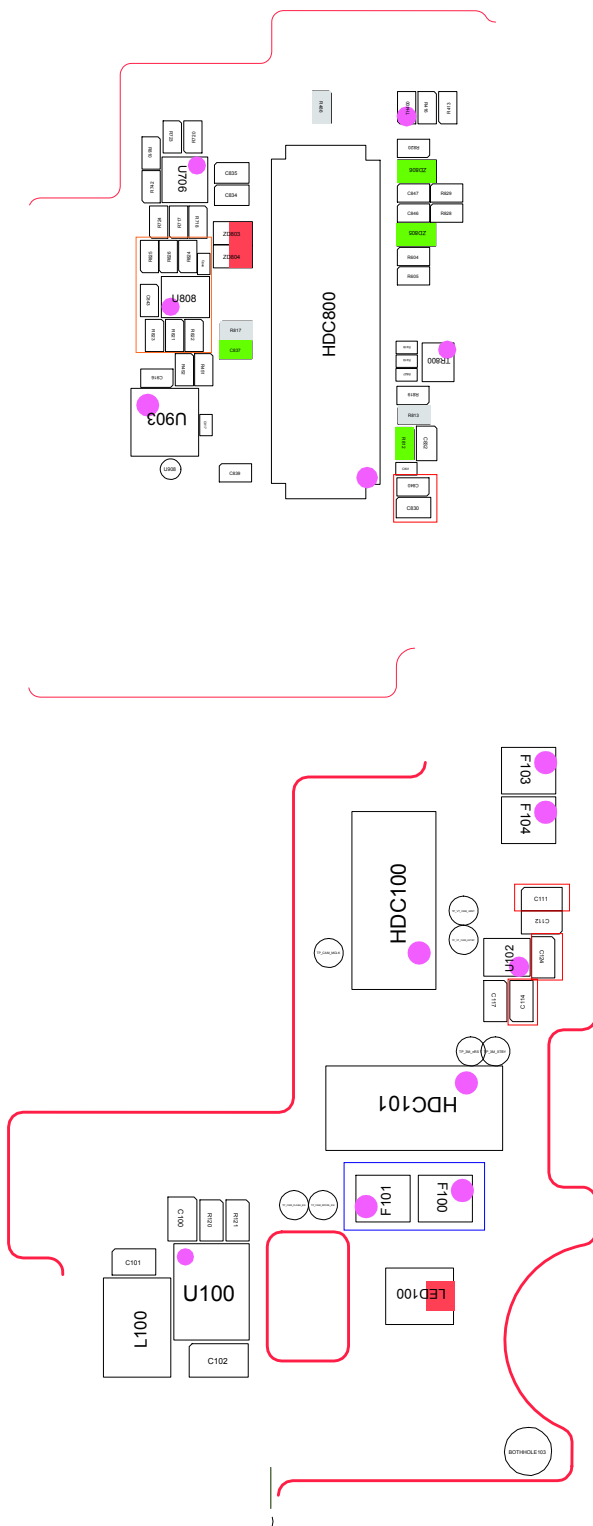


## CAM AVDD LDO

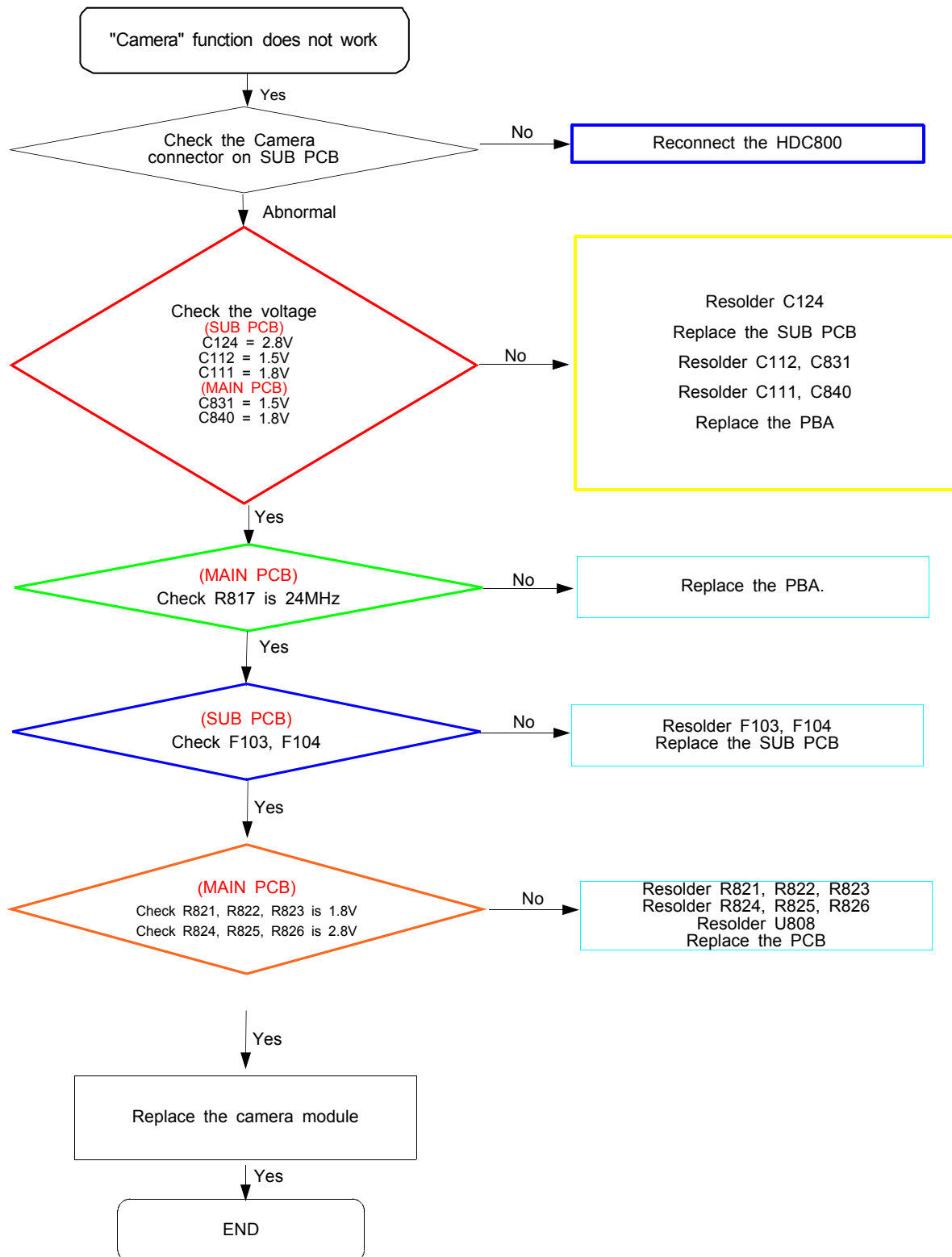


## 2M\_CAM

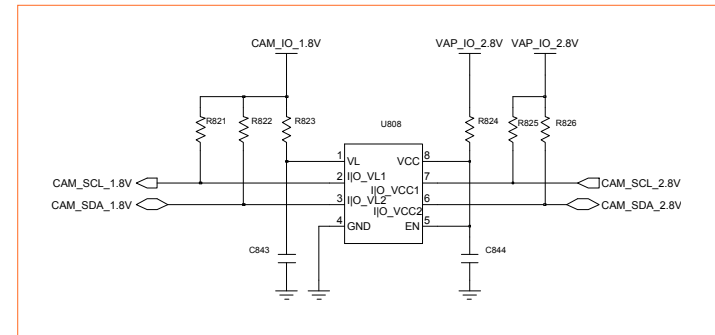




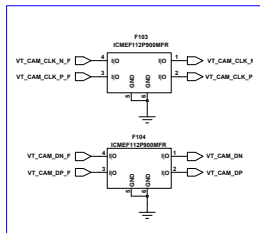
## 8-3-16. 2M CAM

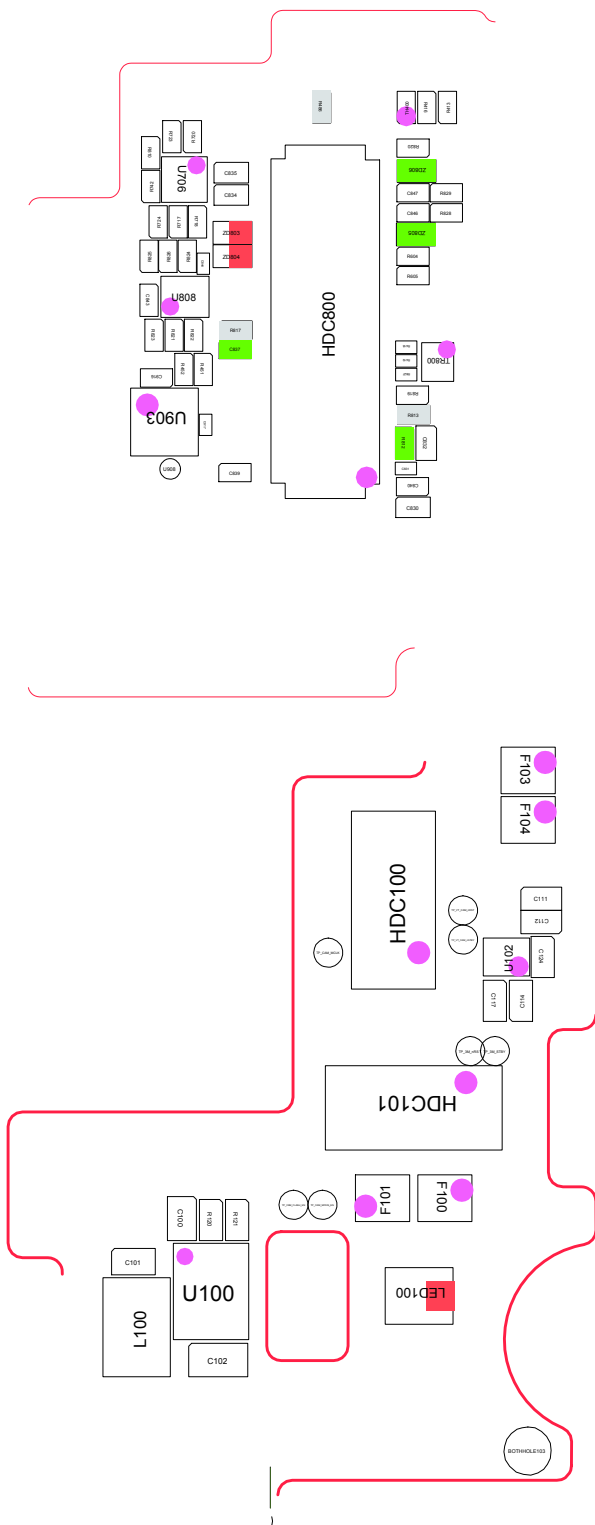


SMP\_CORE\_1.2V

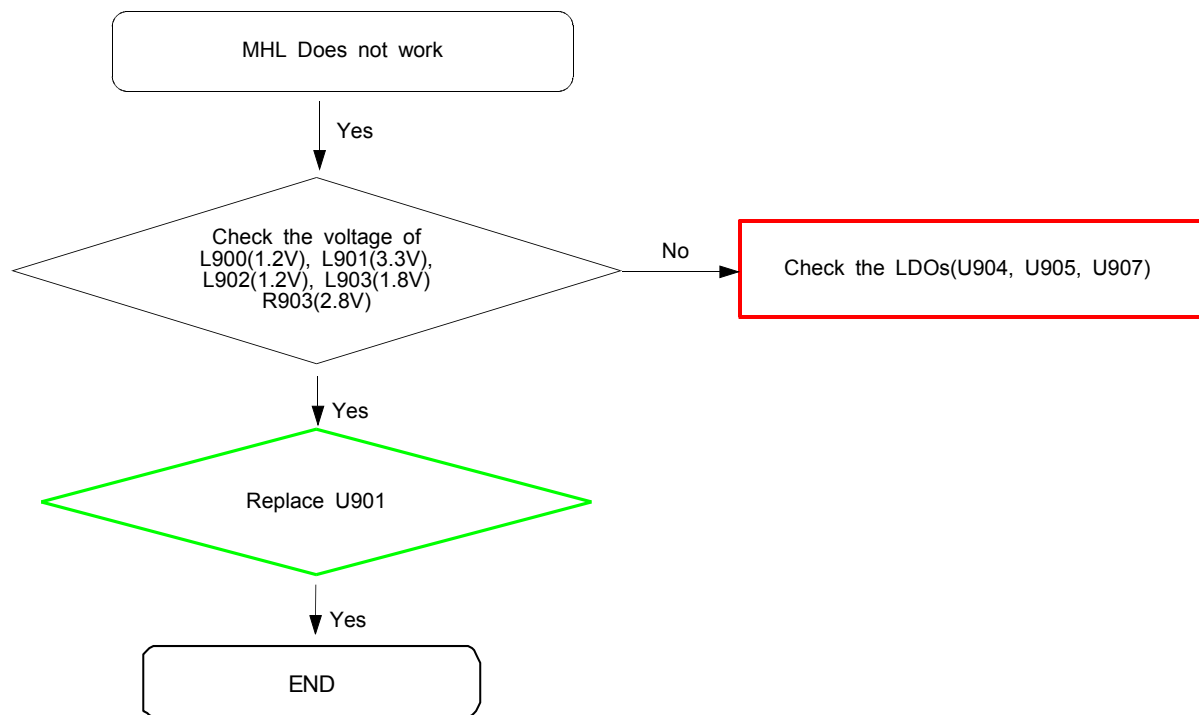


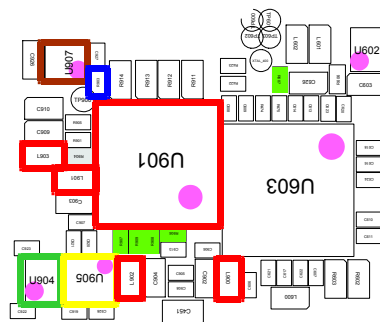
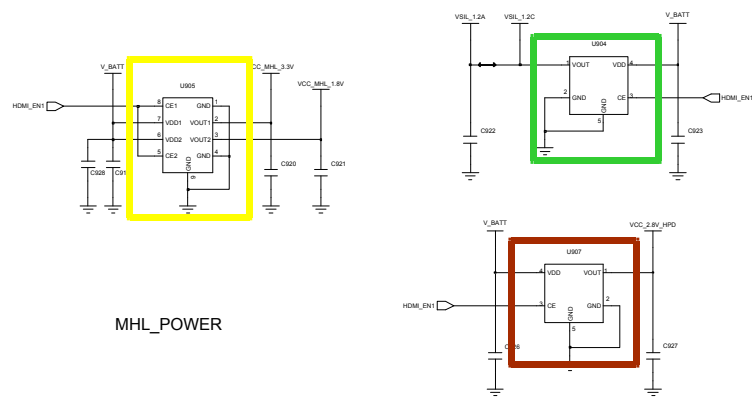
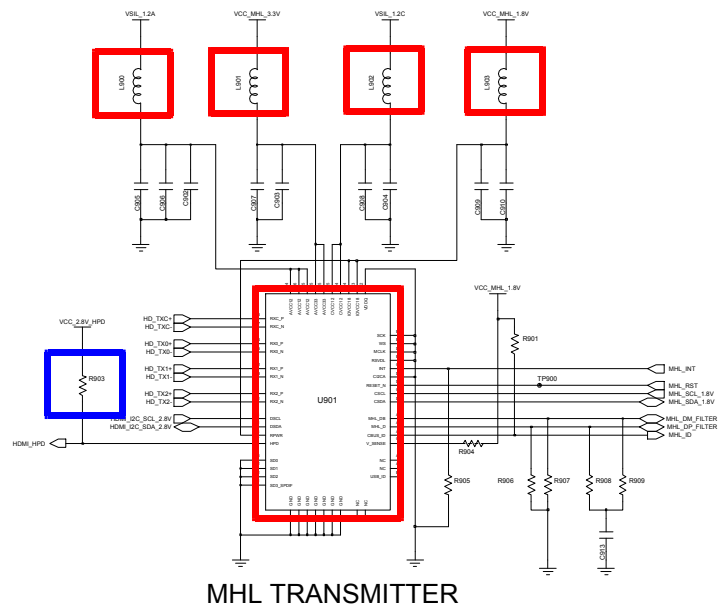
## CAM 10.5.00.38



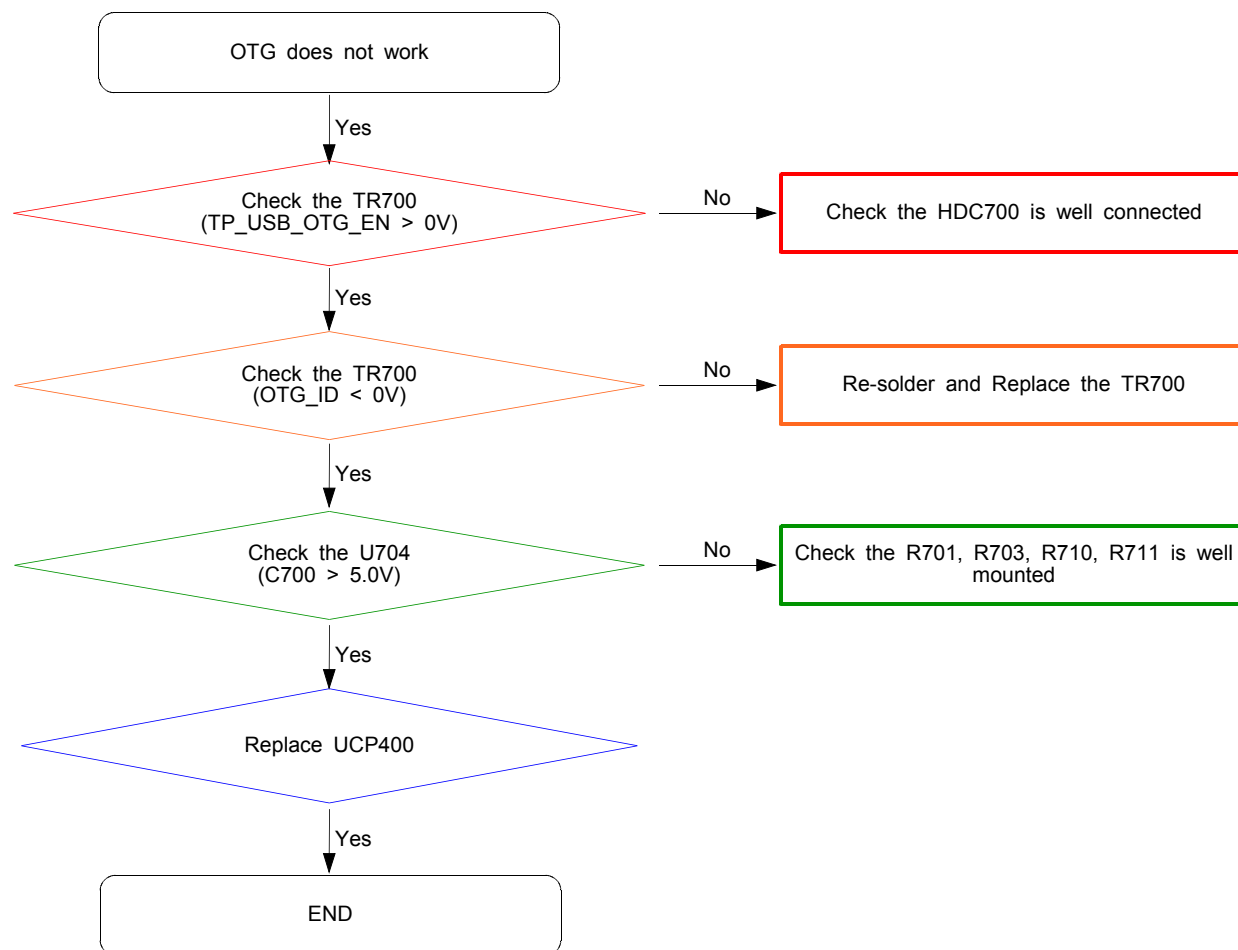


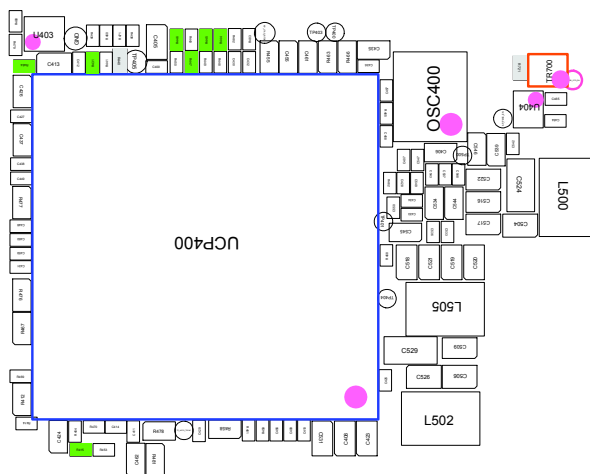
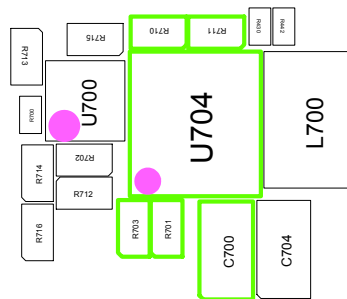
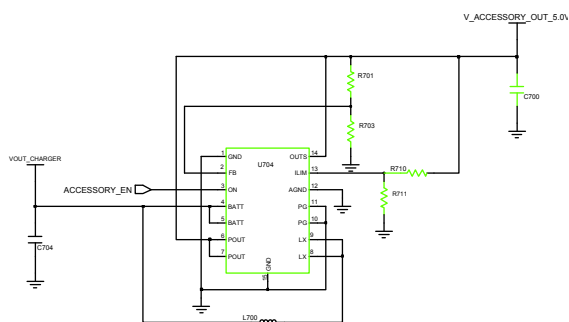
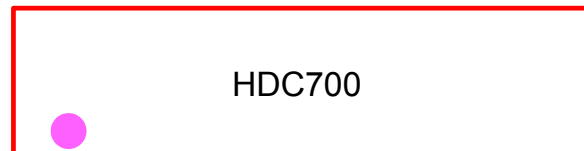
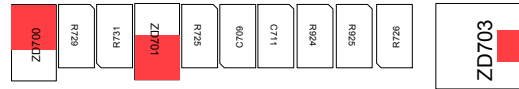
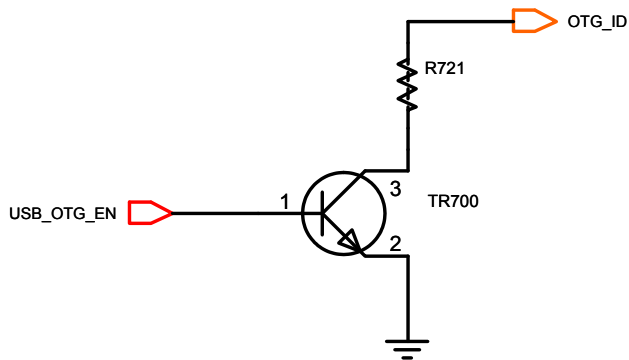
### 8-3-17. MHL



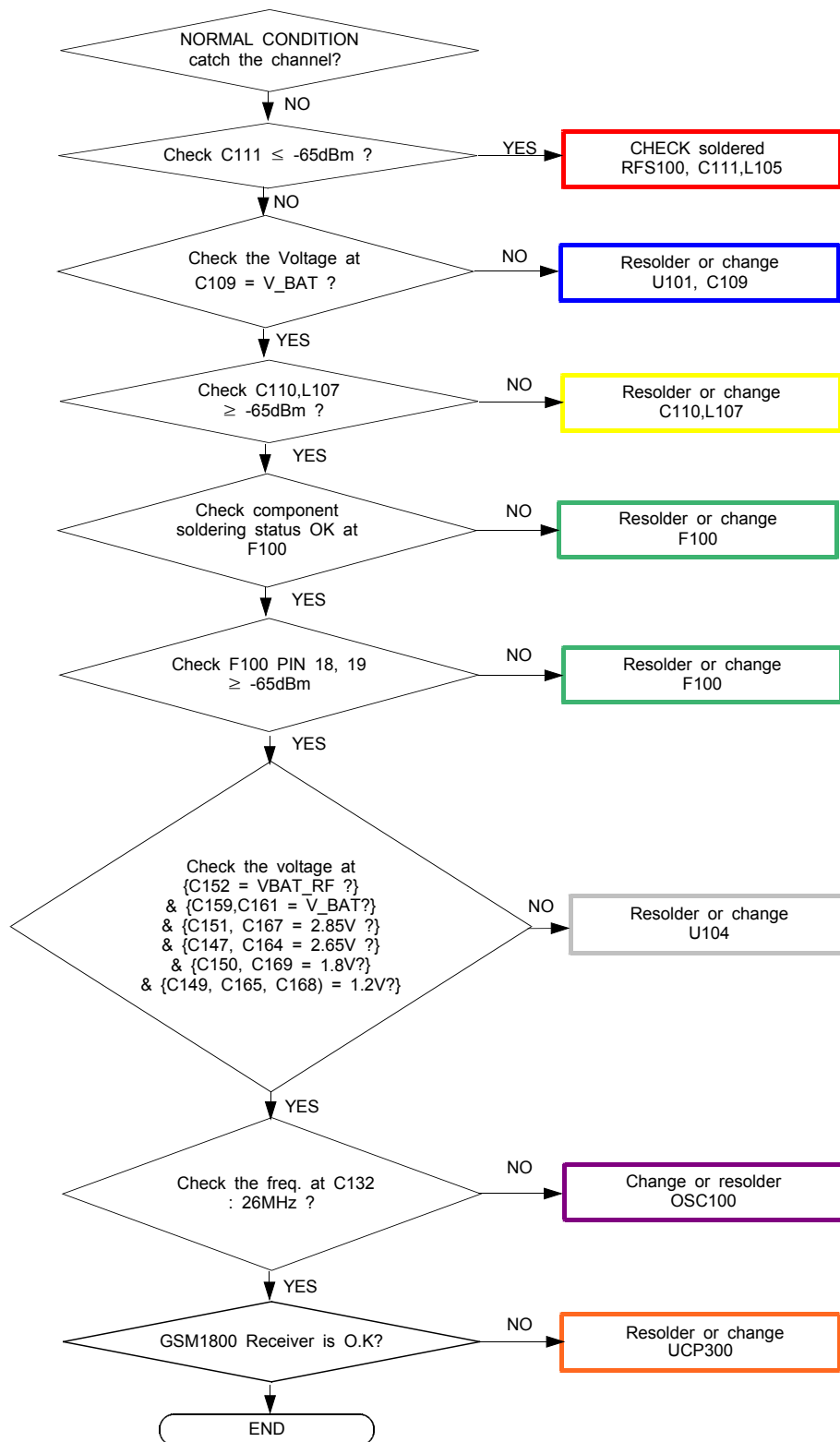


### 8-3-18. OTG

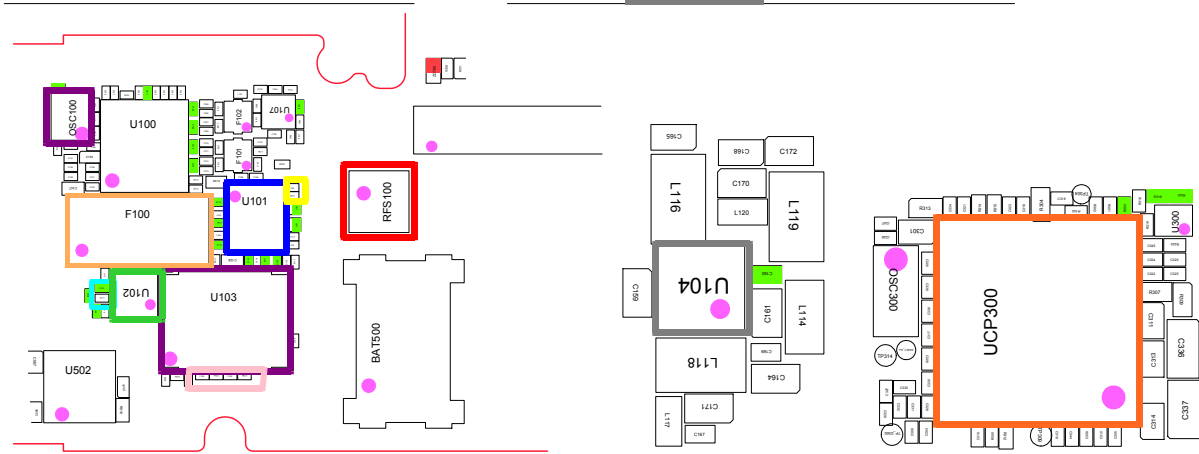
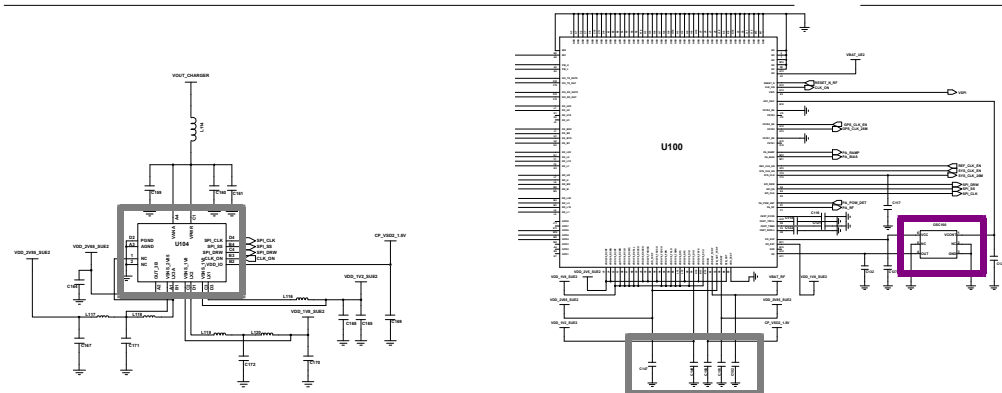
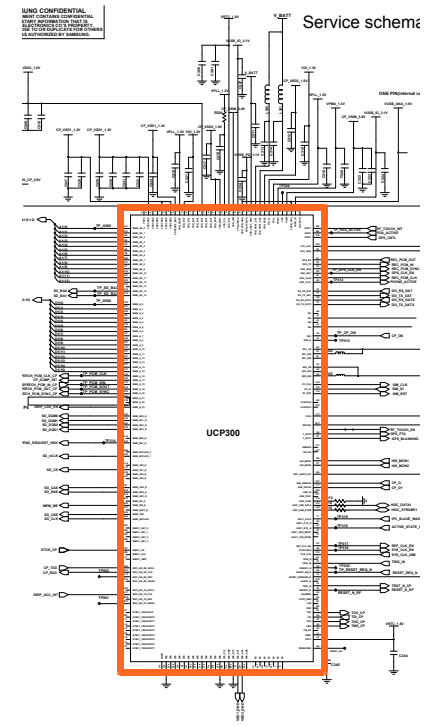
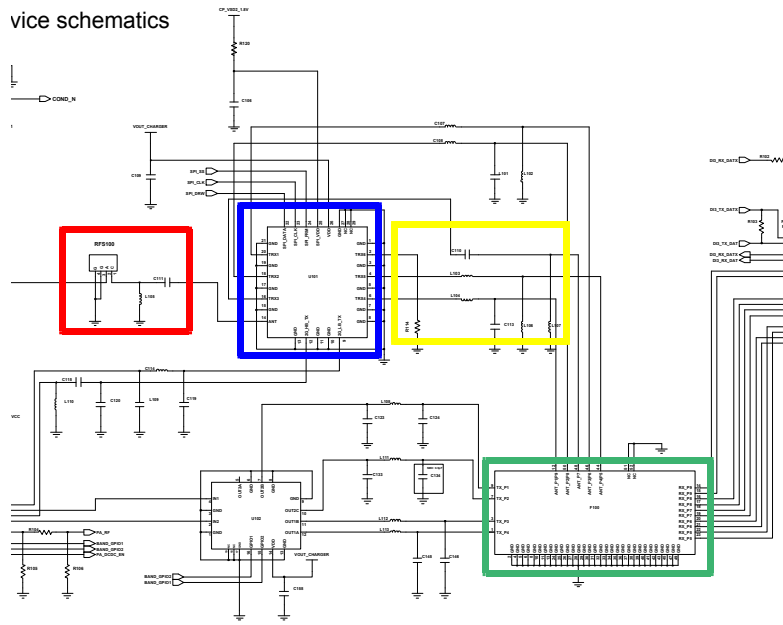




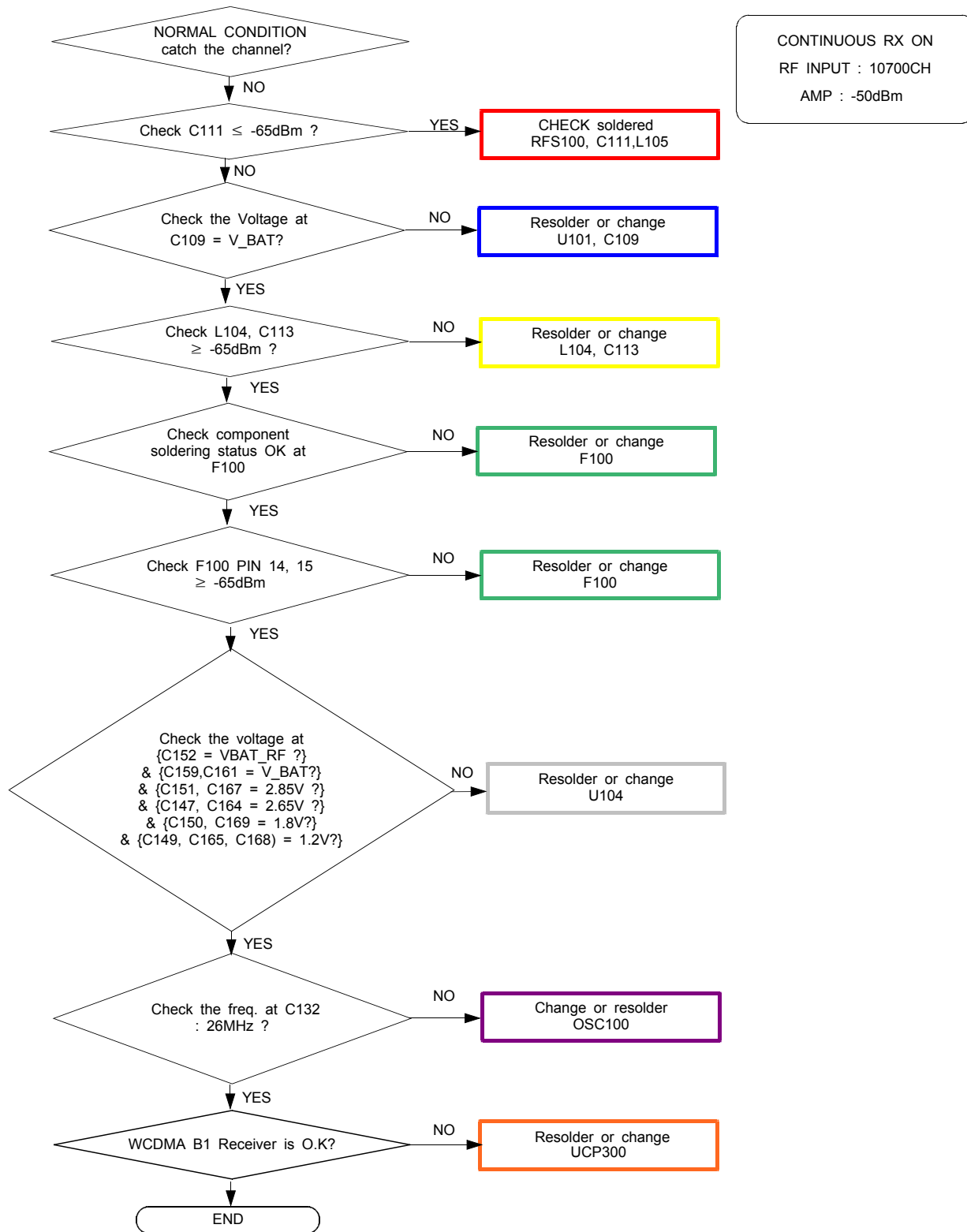
## 8-3-19. GSM1800 RX



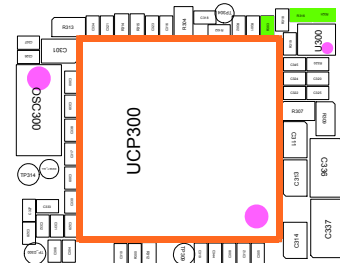
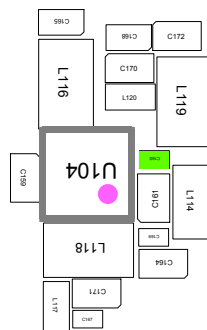
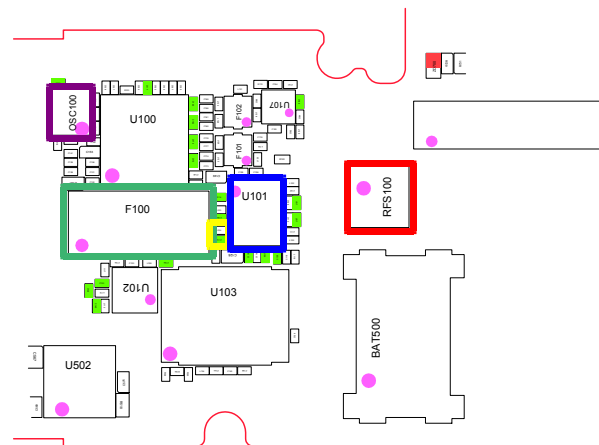
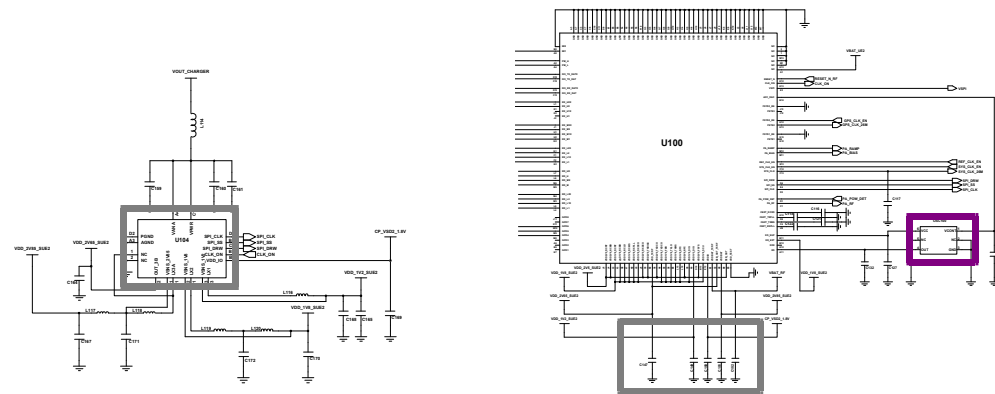
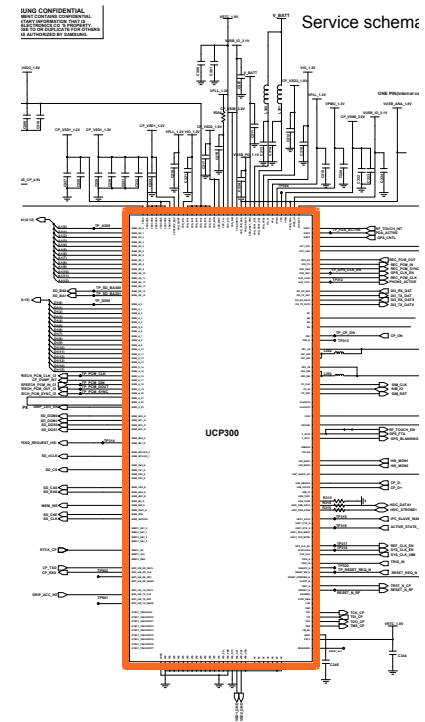
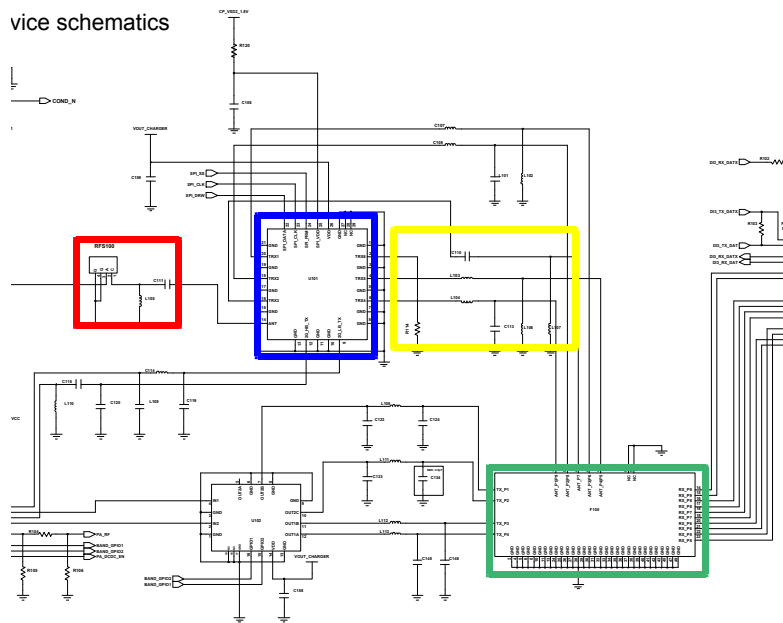
vice schematics



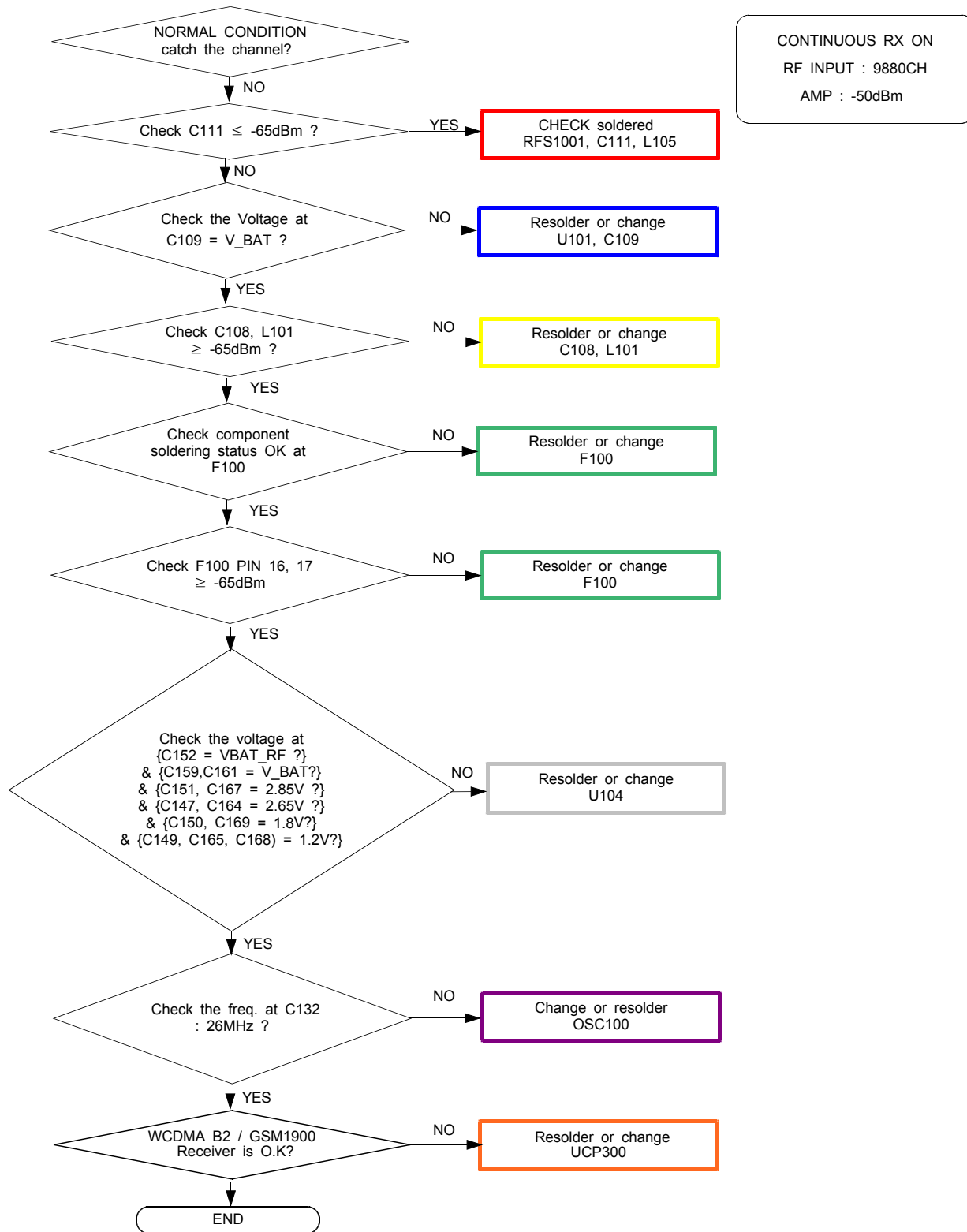
### 8-3-20. WCDMA Band1 RX



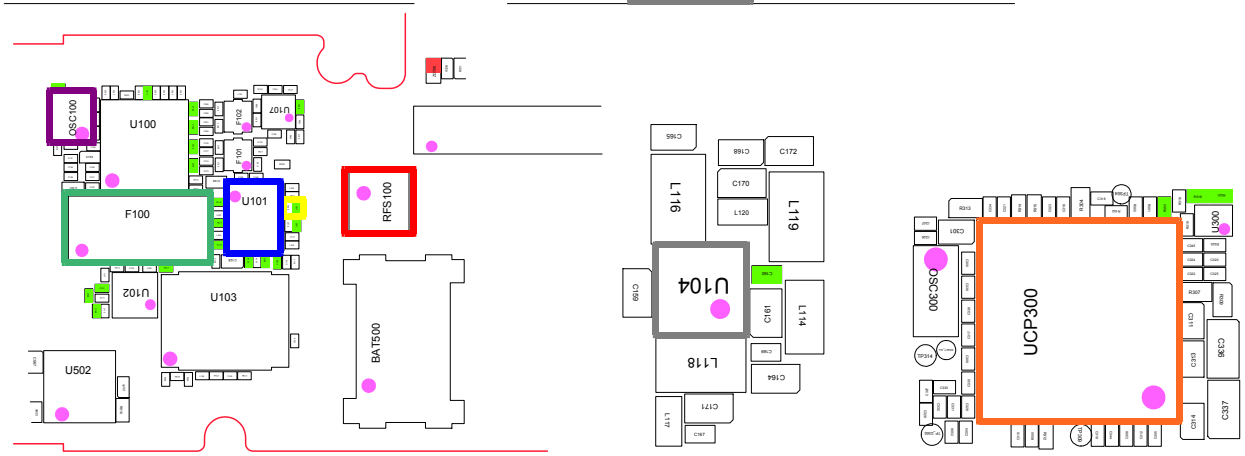
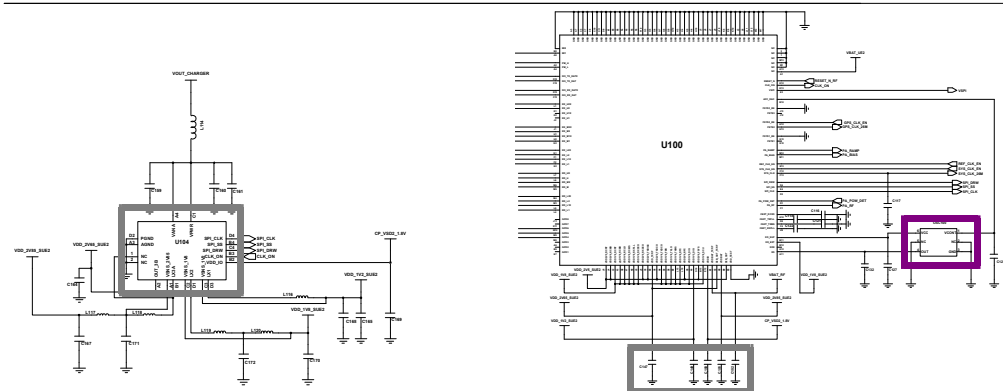
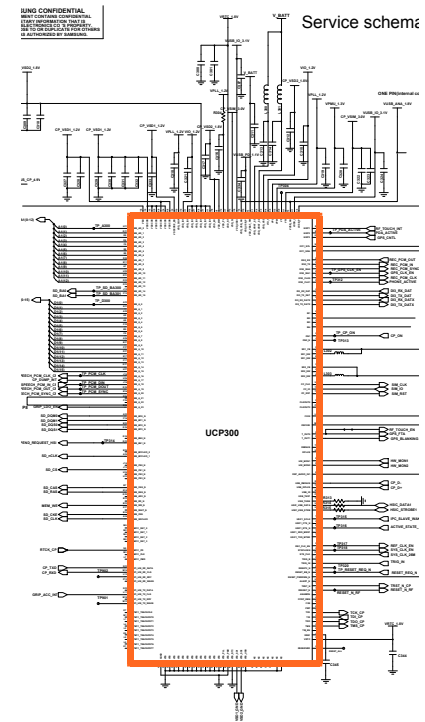
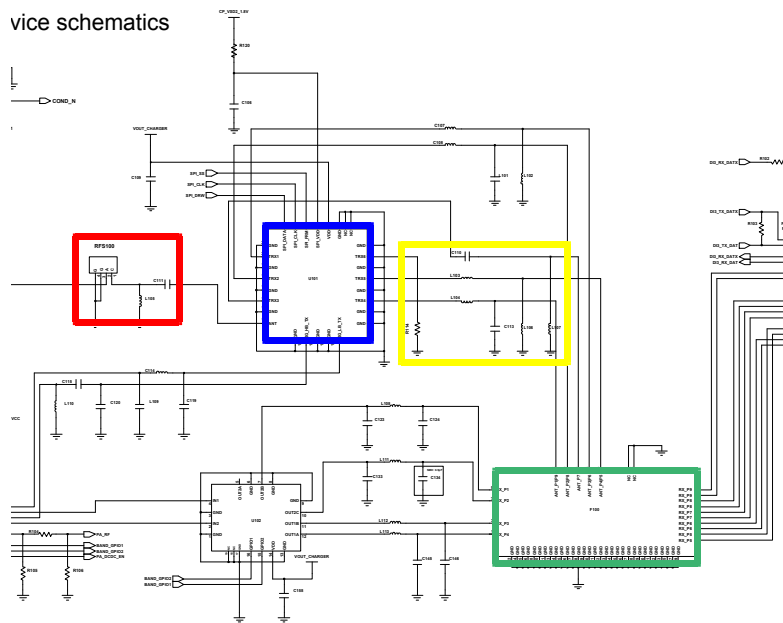
vice schematics



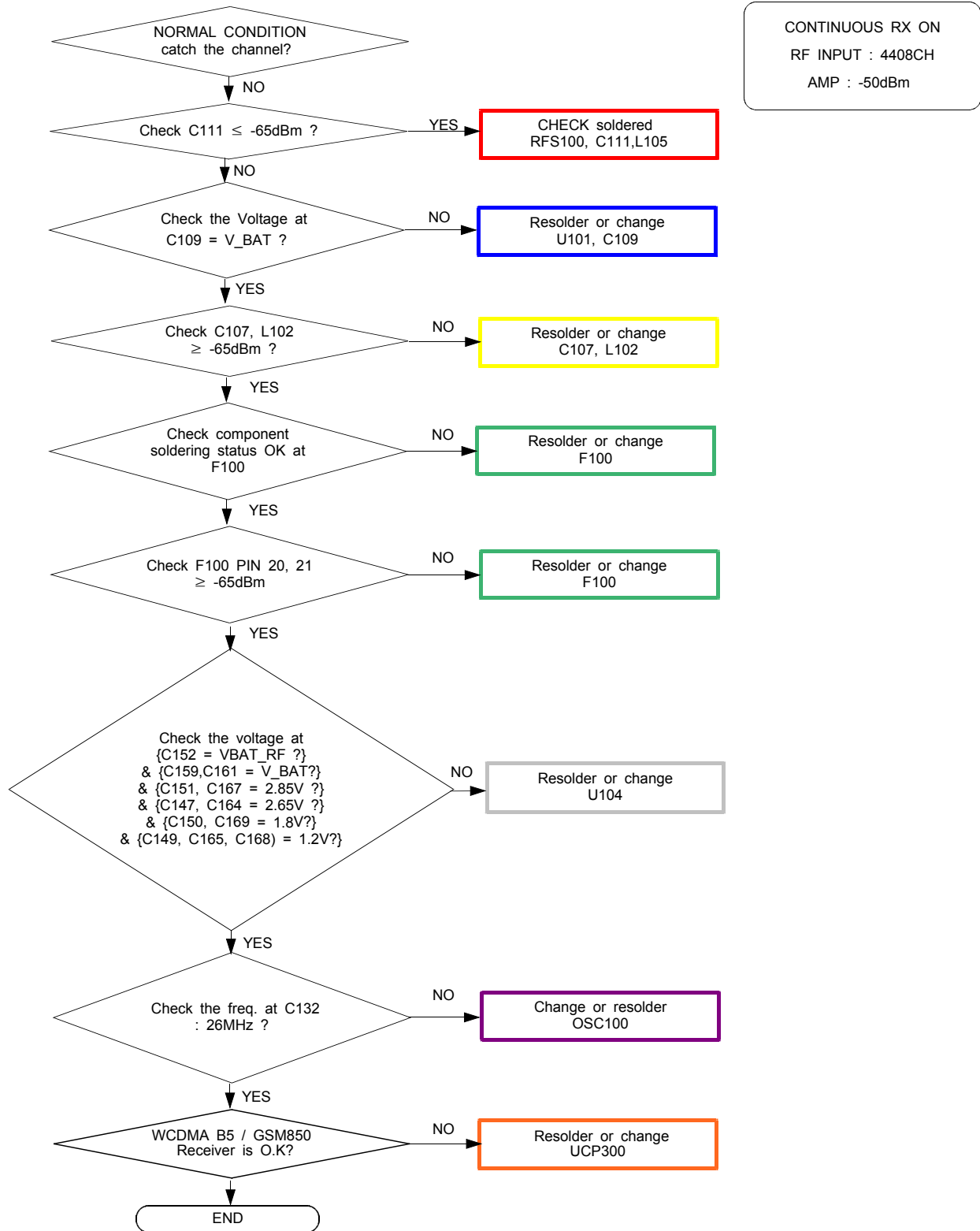
## 8-3-21. WCDMA Band2 / GSM1900 RX

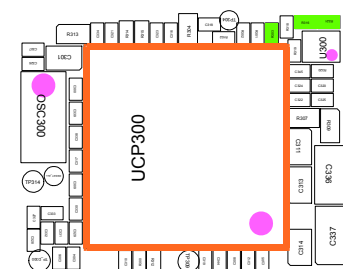
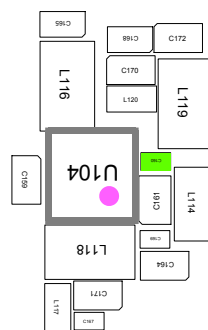
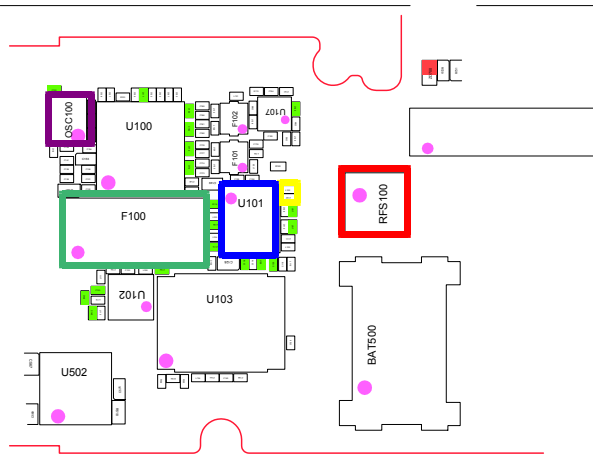
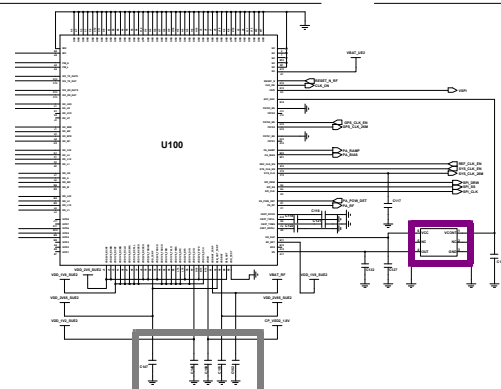
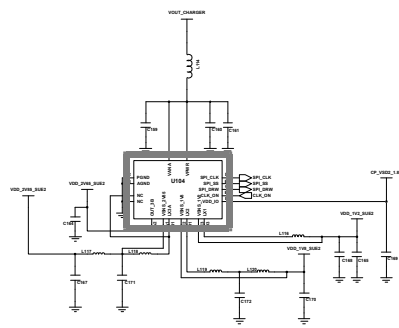
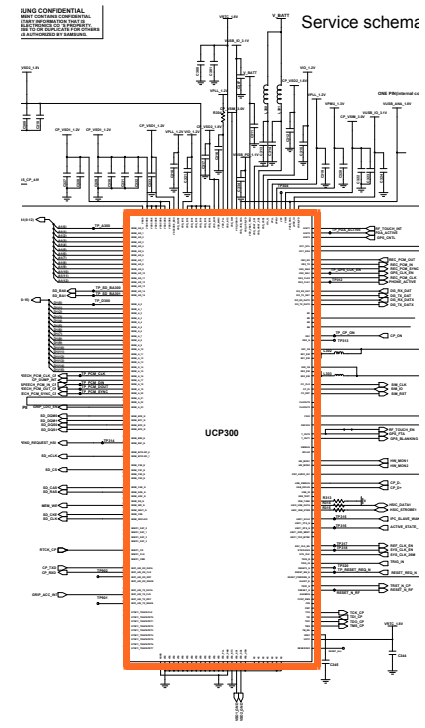
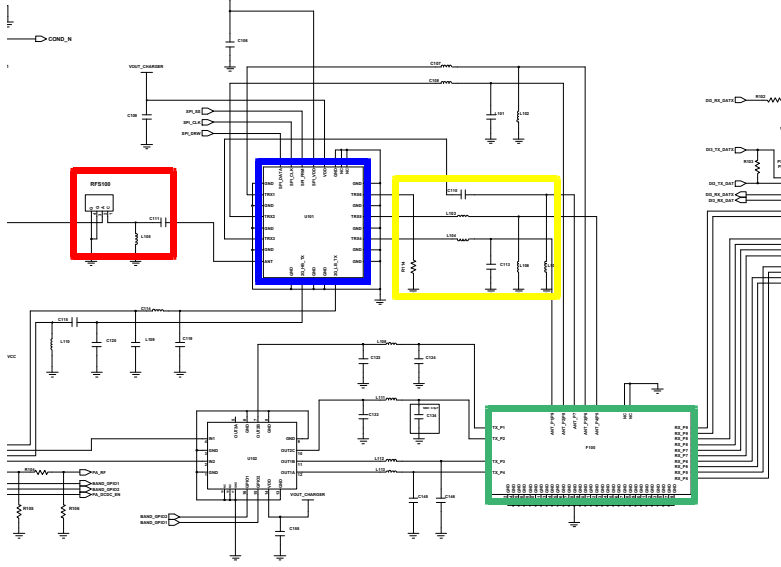


vice schematics

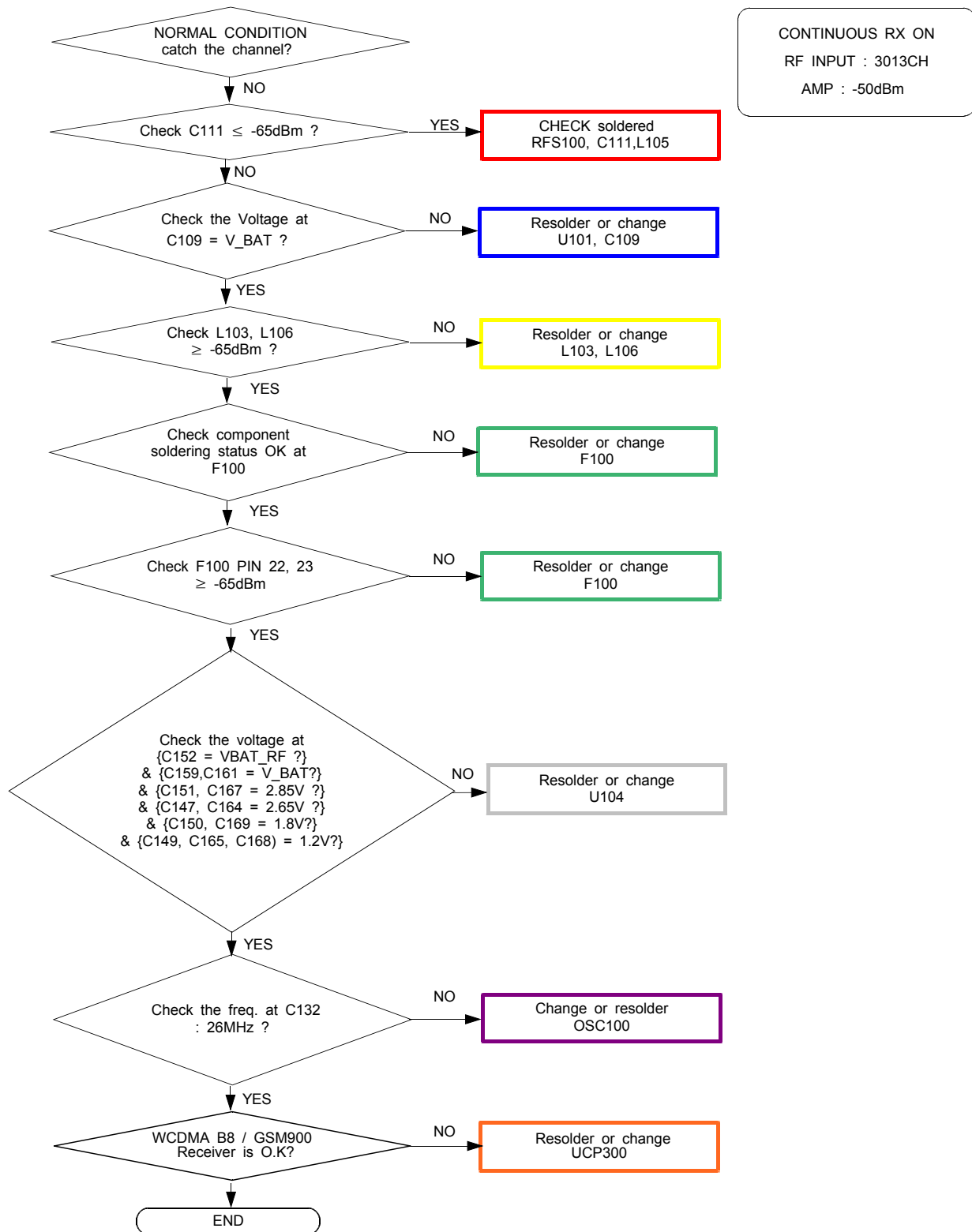


## 8-3-22. WCDMA Band5 / GSM 850 RX

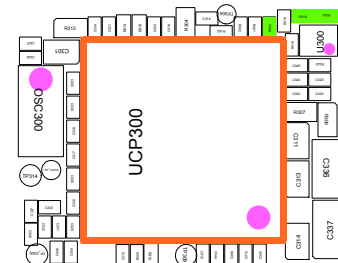
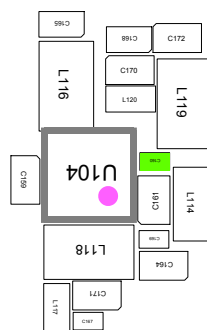
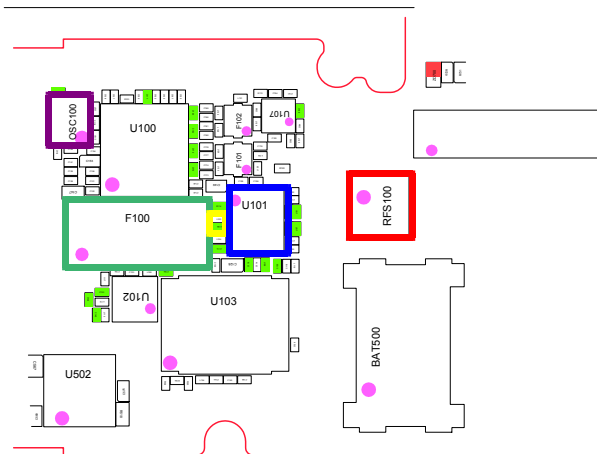
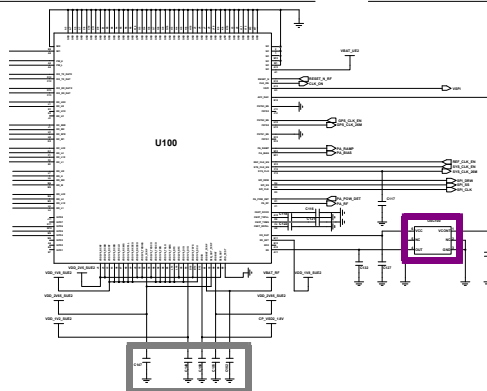
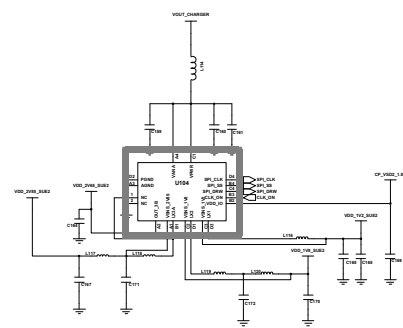
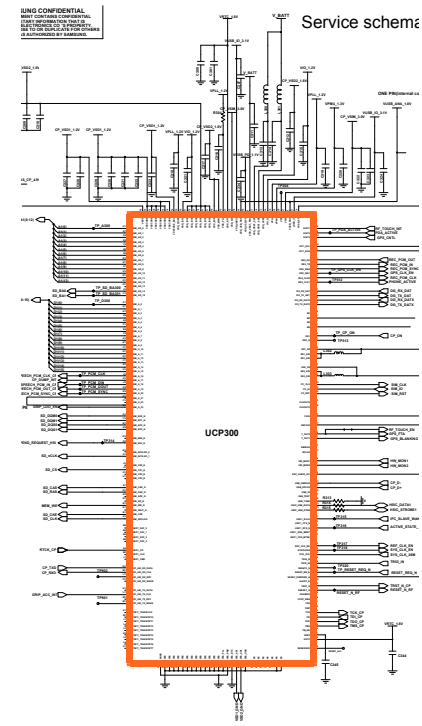
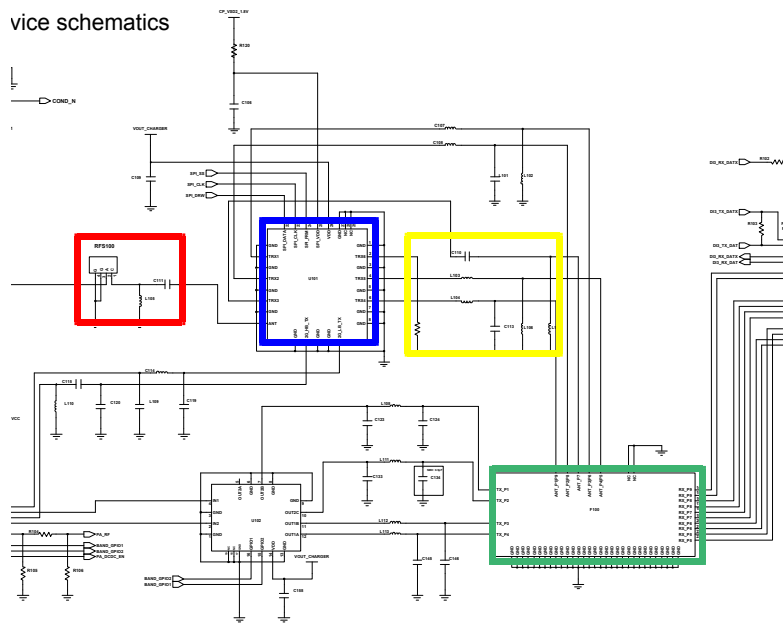




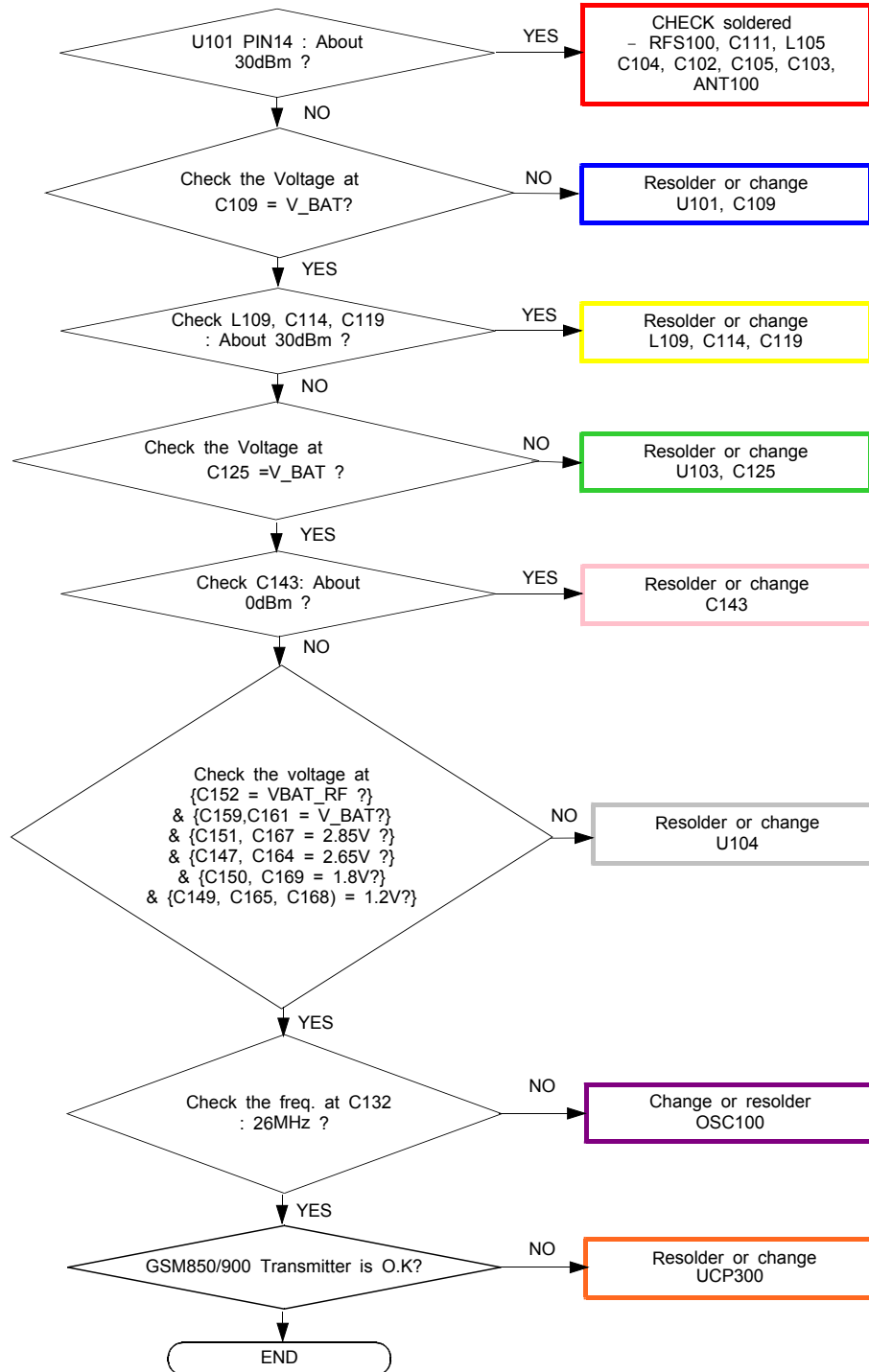
## 8-3-23. WCDMA Band8 / GSM900 RX



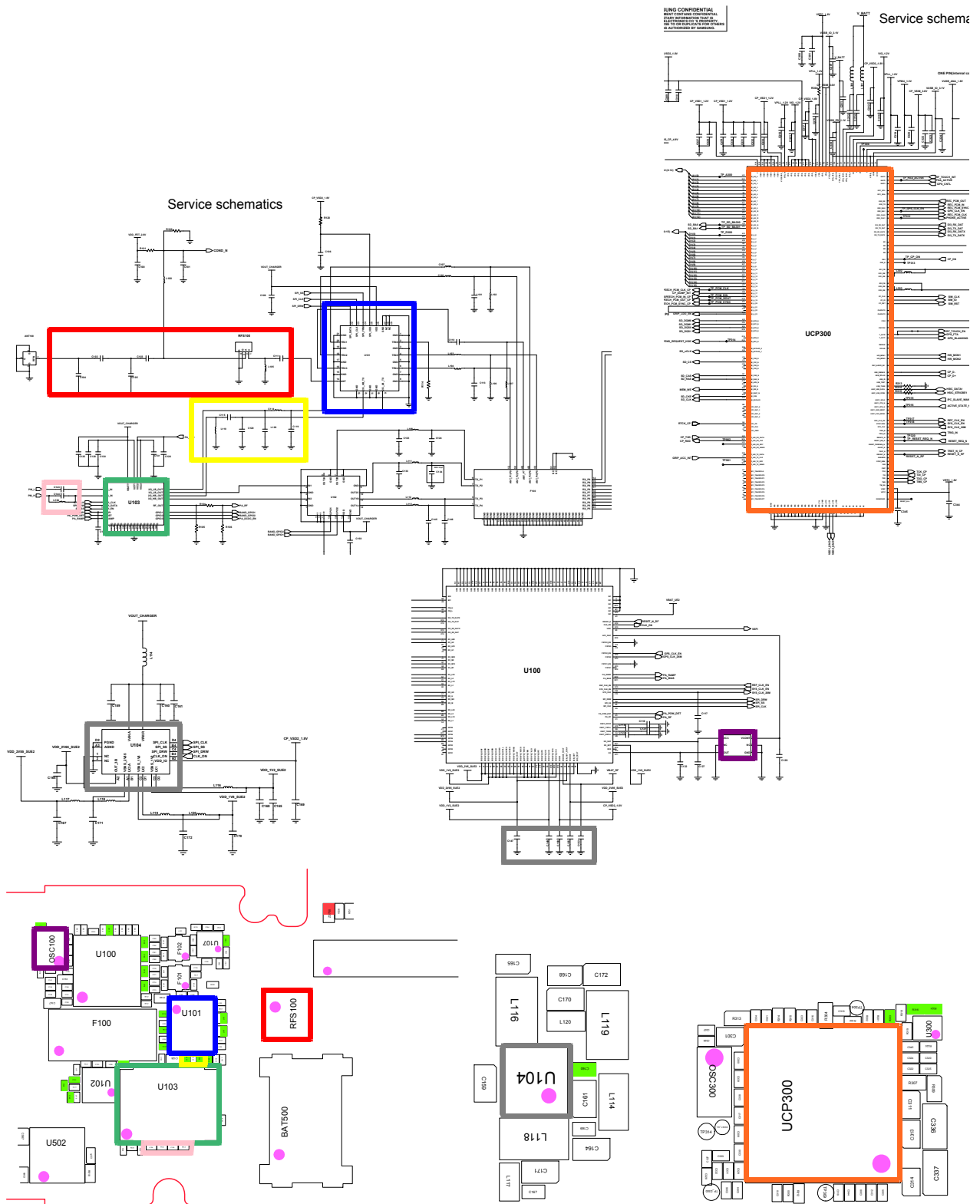
vice schematics



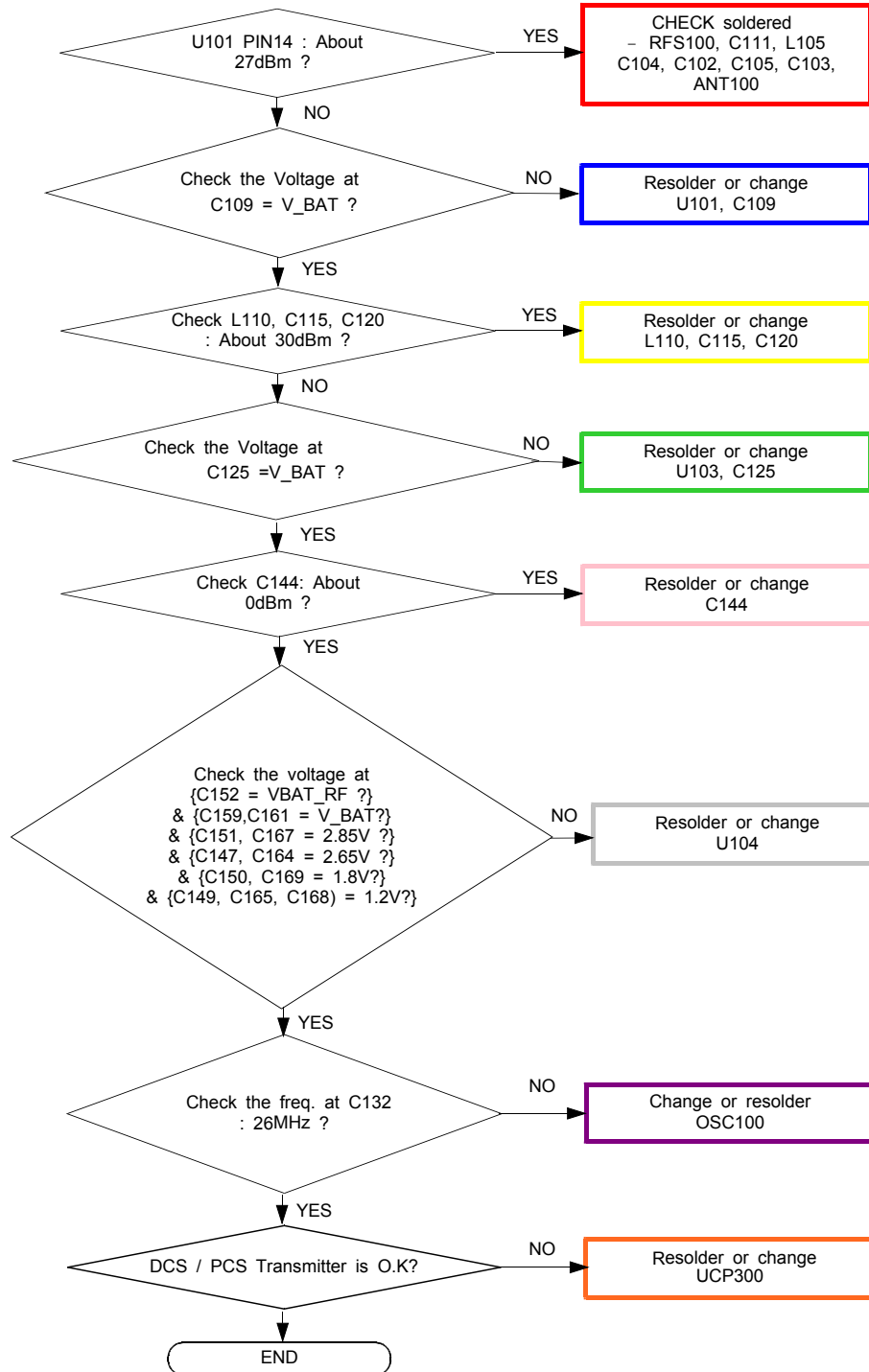
## 8-3-24. GSM850/GSM900 TX



CONTINUOUS TX ON CONDITION  
TX POWER DAC:14500 CODE  
APPLIED  
GSM850 CH : 190  
GSM900 CH : 62  
RBW : 100KHz  
VBW : 100KHz  
SPAN : 10MHz  
REF LEV. : 10dBm  
ATT. : 20dB



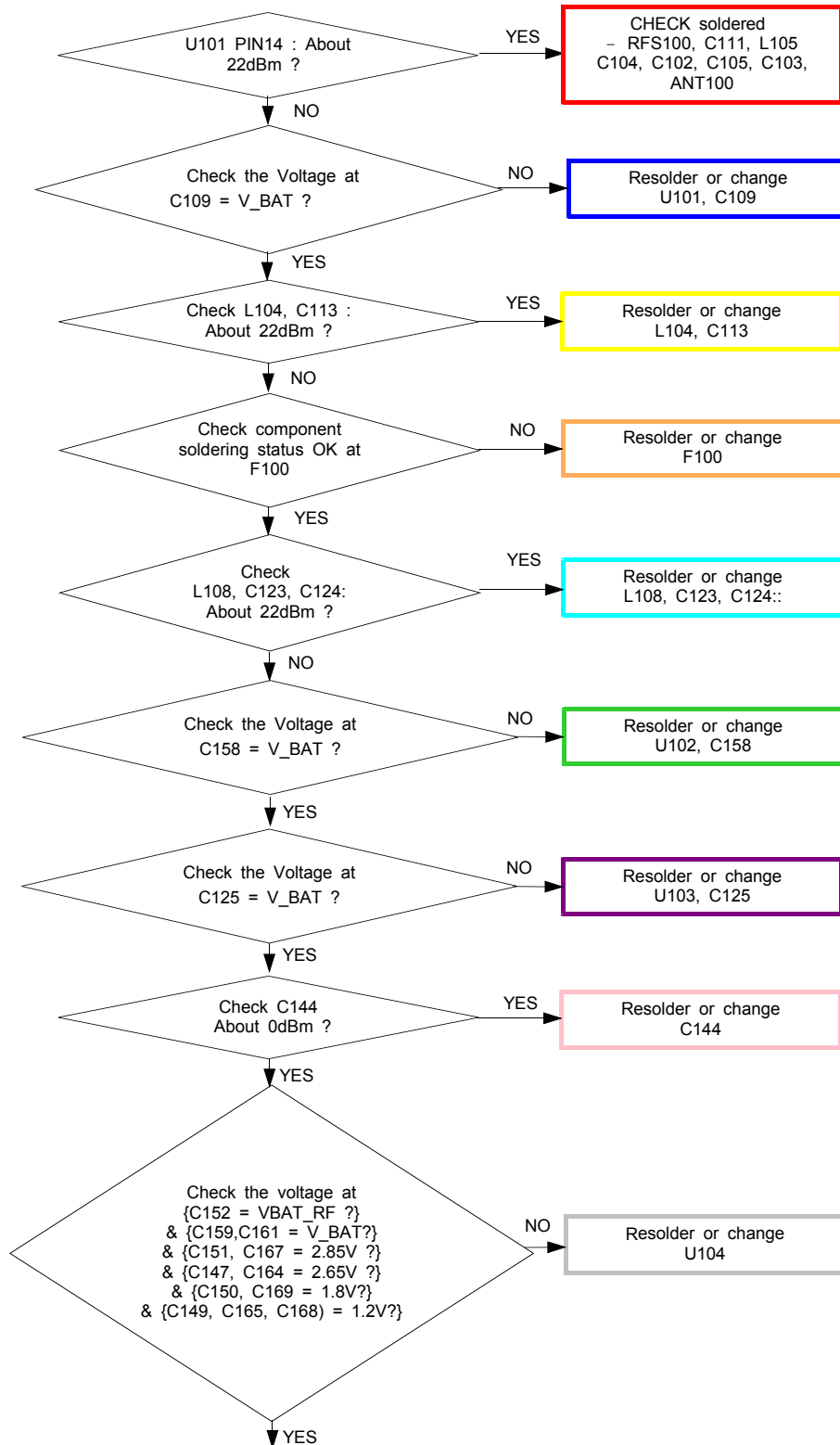
## 8-3-25. DCS/PCS TX



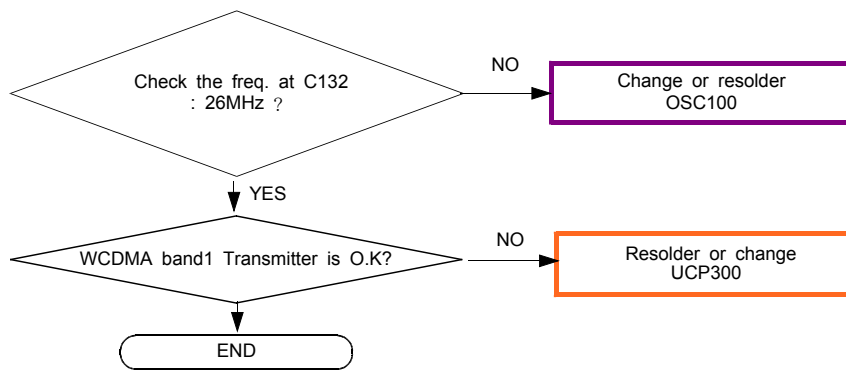
CONTINUOUS TX ON CONDITION  
TX POWER DAC:14500 CODE  
APPLIED  
GSM850 CH : 190  
GSM900 CH : 62  
RBW : 100KHz  
VBW : 100KHz  
SPAN : 10MHz  
REF LEV. : 10dBm  
ATT. : 20dB

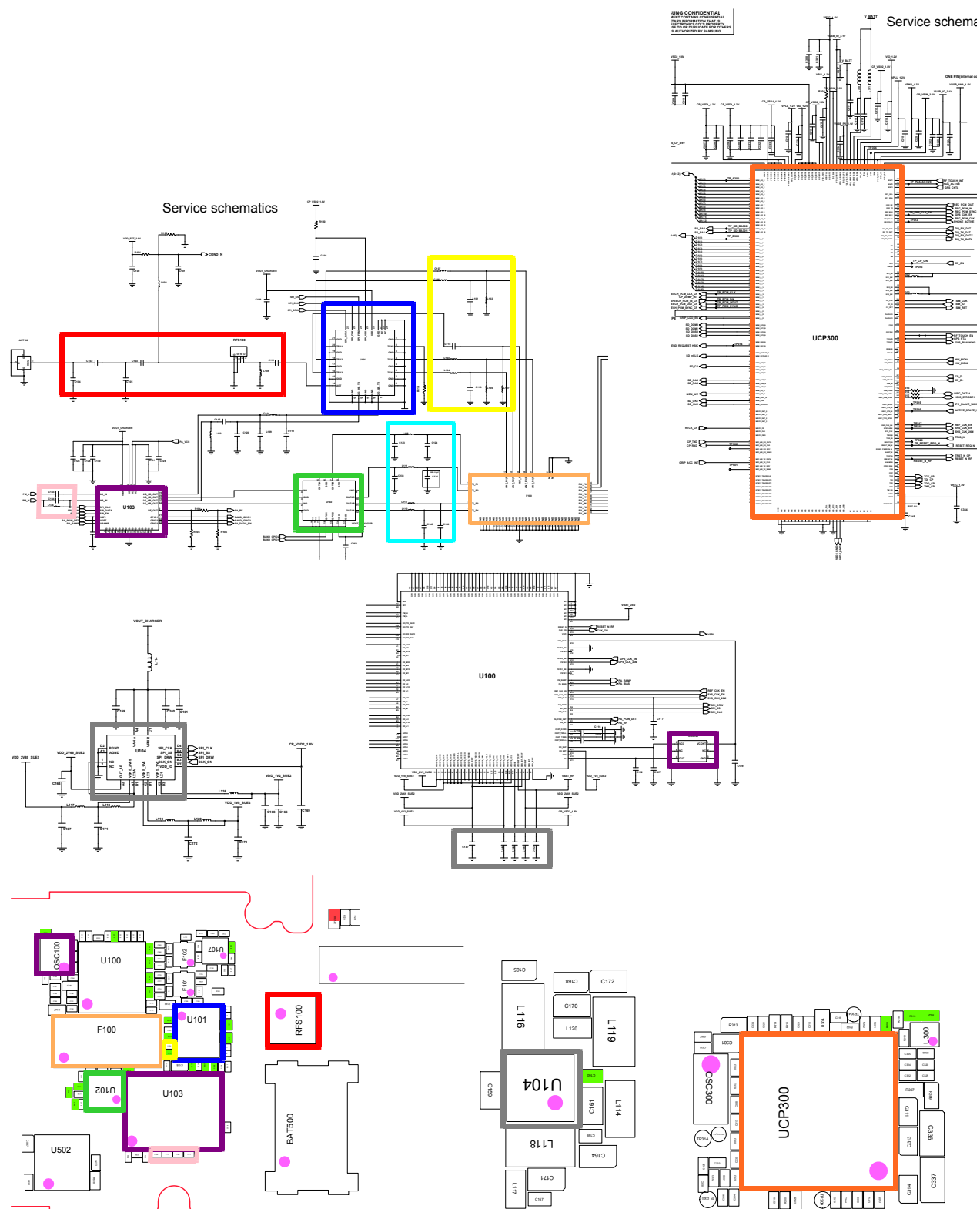


## 8-3-26. WCDMA BAND1 TX

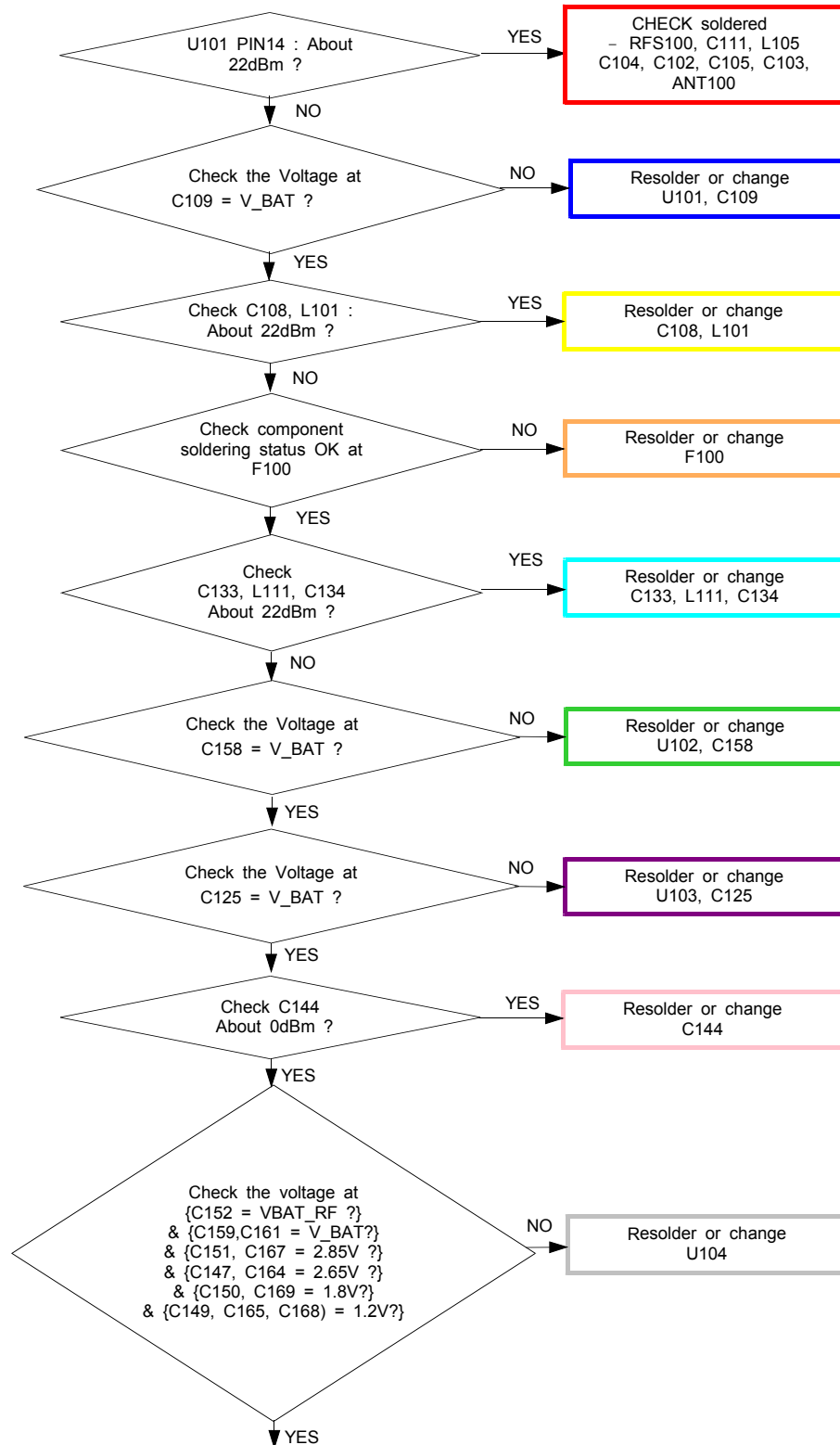


CONTINUOUS TX ON CONDITION  
TX POWER DAC:14500 CODE  
APPLIED  
WCDMA Band1 CH : 10700  
RBW : 100KHz  
VBW : 100KHz  
SPAN : 10MHz  
REF LEV. : 10dBm  
ATT. : 20dB

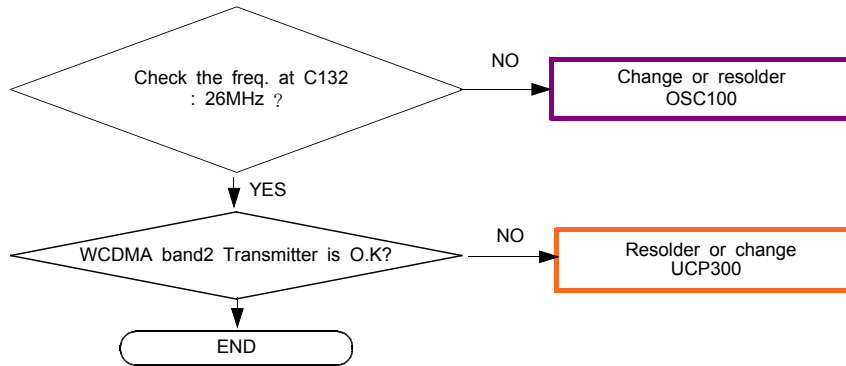


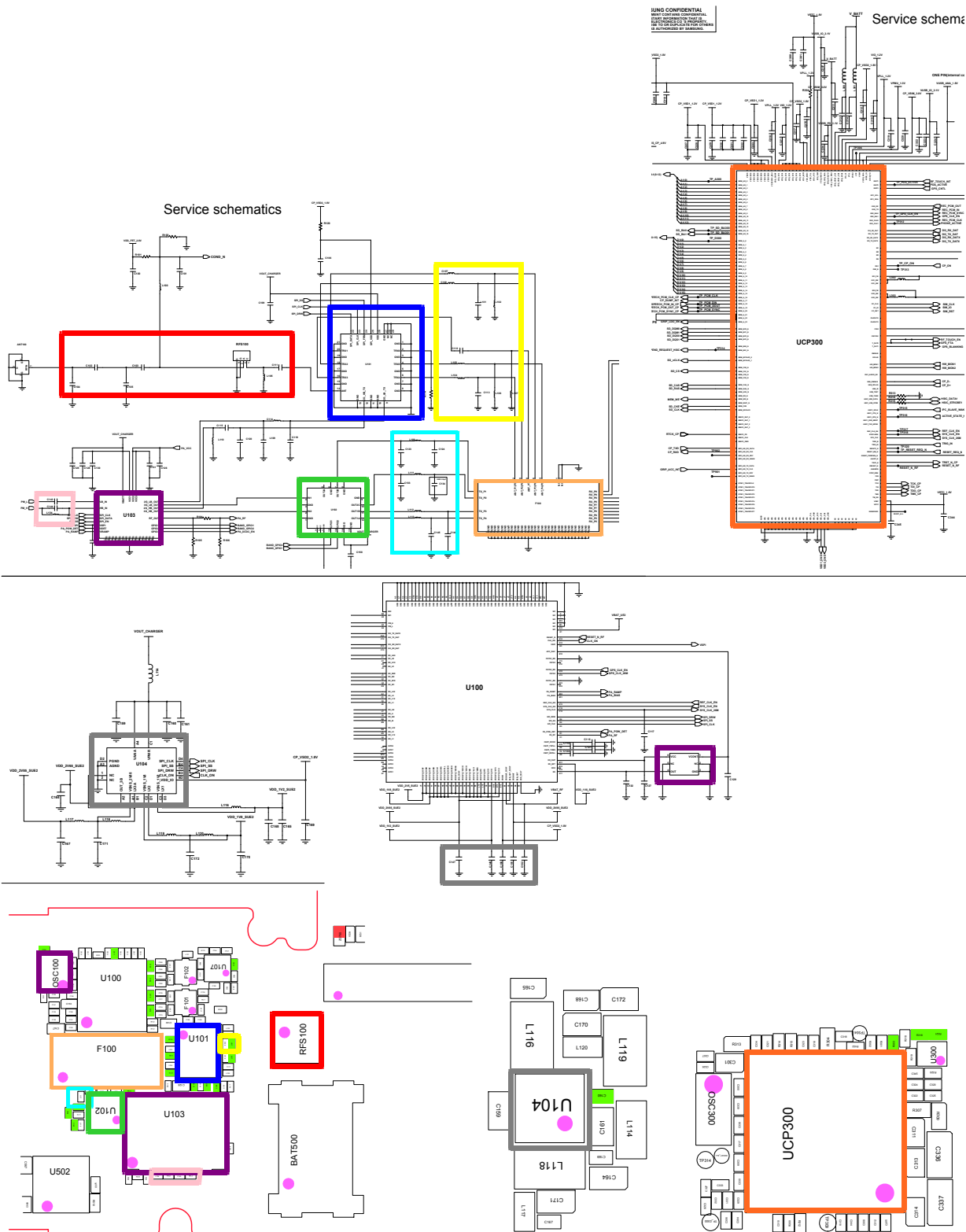


## 8-3-27. WCDMA BAND2 TX

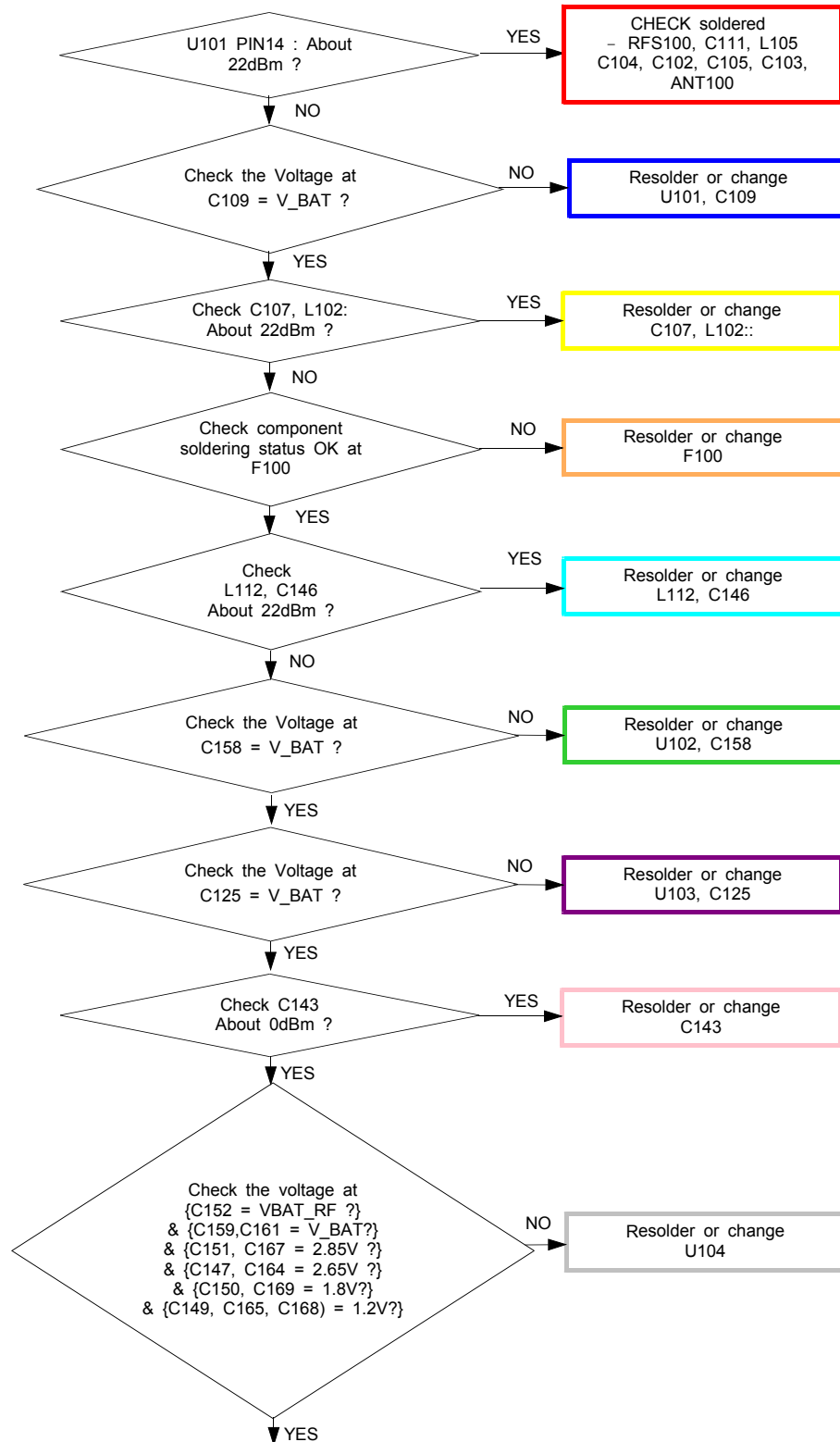


CONTINUOUS TX ON CONDITION  
TX POWER DAC:14500 CODE  
APPLIED  
WCDMA Band2 CH : 9880  
RBW : 100KHz  
VBW : 100KHz  
SPAN : 10MHz  
REF LEV. : 10dBm  
ATT. : 20dB

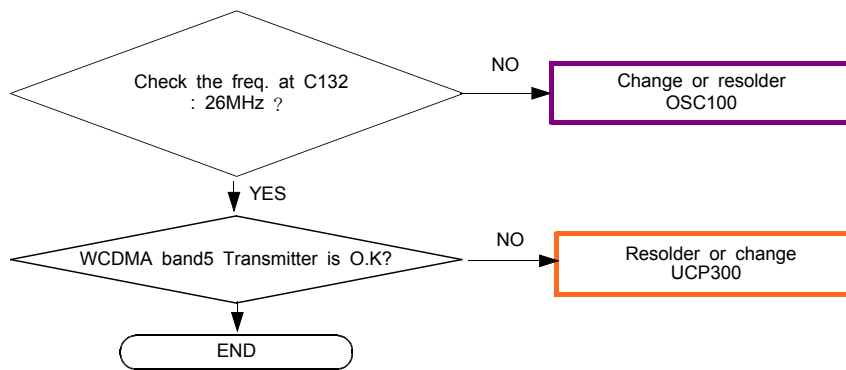


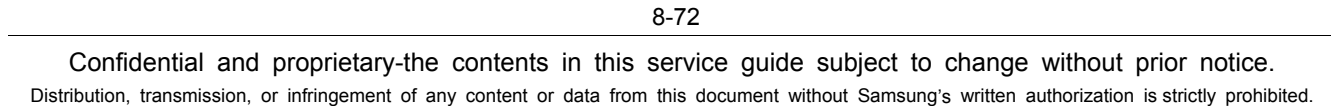


## 8-3-28. WCDMA BAND5 TX

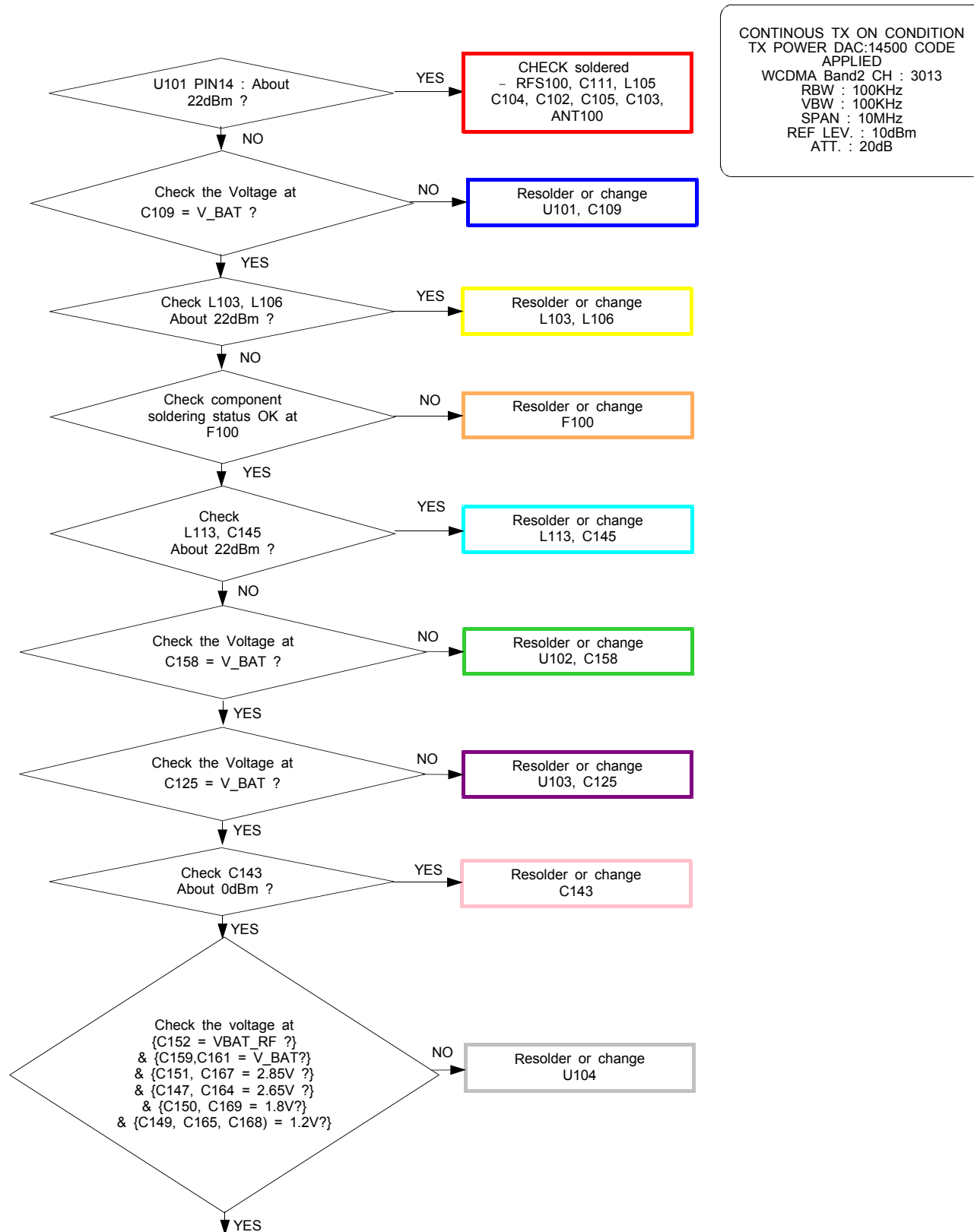


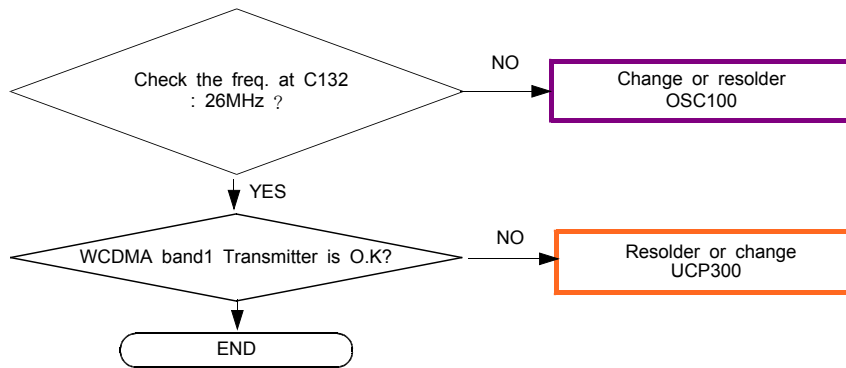
CONTINUOUS TX ON CONDITION  
TX POWER DAC:14500 CODE  
APPLIED  
WCDMA Band5 CH : 4408  
RBW : 100KHz  
VBW : 100KHz  
SPAN : 10MHz  
REF LEV. : 10dBm  
ATT. : 20dB

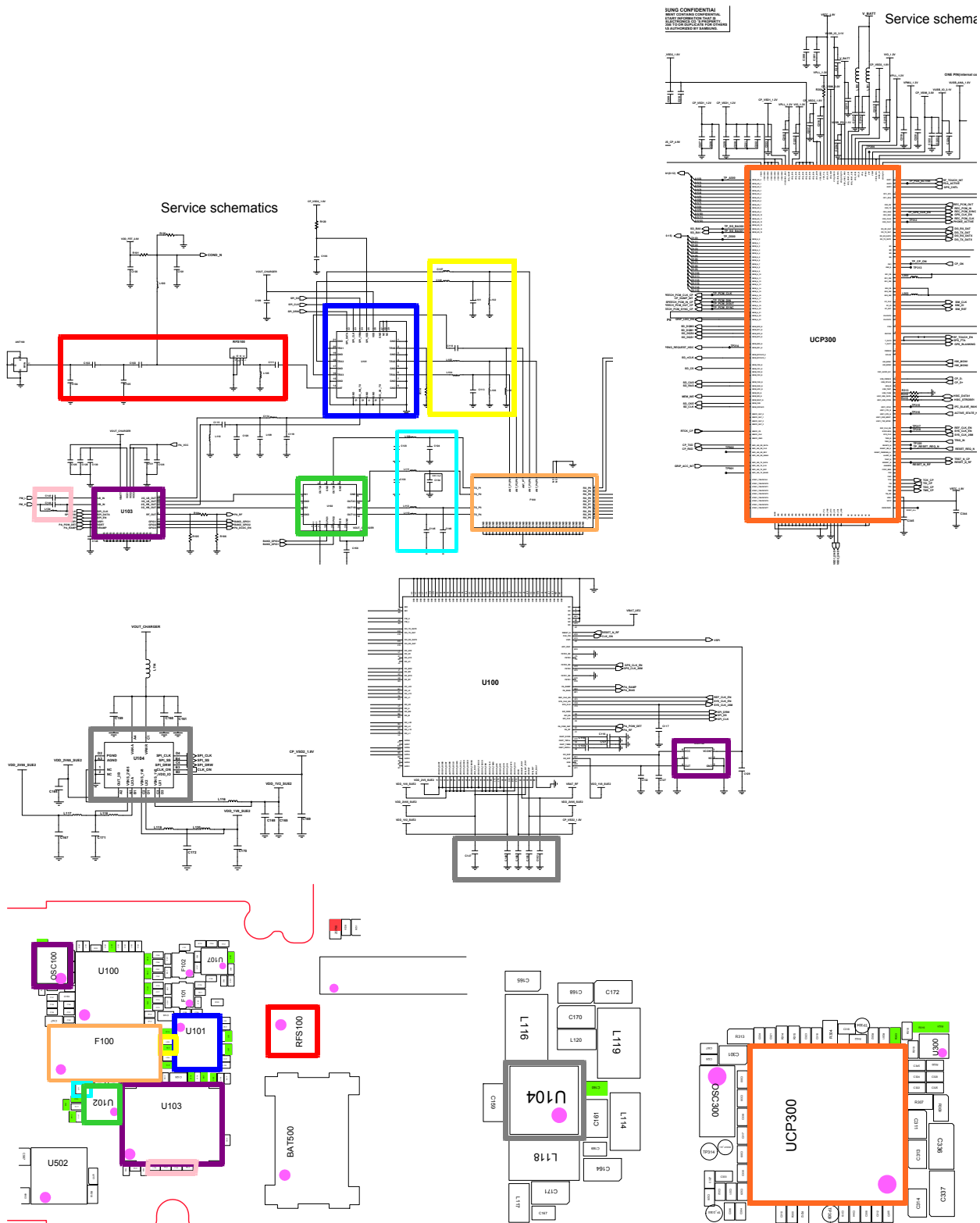




## 8-3-29. WCDMA BAND8 TX







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## 9. Reference Abbreviate

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### Reference Abbreviate

- AAC: AdvancedAudioCoding.
- AVC: AdvancedVideoCoding.
- BER: BitErrorRate
- BPSK: BinaryPhaseShiftKeying
- CA: ConditionalAccess
- CDM: CodeDivisionMultiplexing
- C/I: Carrier to Interference
- DMB: DigitalMultimediaBroadcasting
- E: European Standard
- ES: ElementaryStream
- ETSI: EuropeanTelecommunicationsStandardsInstitute
- MPEG: MovingPictureExpertsGroup
- PN: Pseudo-randomNoise
- PS: PilotSymbol
- QPSK: QuadraturePhaseShiftKeying
- RS: Reed-Solomon
- SI: ServiceInformation
- TDM: TimeDivisionMultiplexing
- TS: TransportStream

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