

# Service Manual

## LG-P705

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# 1. INTRODUCTION

## 1.1 Purpose

This manual provides the information necessary to repair, calibration, description and download the features of this model.

## 1.2 Regulatory Information

### A. Security

Toll fraud, the unauthorized use of telecommunications system by an unauthorized part (for example, persons other than your company's employees, agents, subcontractors, or person working on your company's behalf) can result in substantial additional charges for your telecommunications services. System users are responsible for the security of own system. There are may be risks of toll fraud associated with your telecommunications system. System users are responsible for programming and configuring the equipment to prevent unauthorized use. The manufacturer does not warrant that this product is immune from the above case but will prevent unauthorized use of common carrier telecommunication service of facilities accessed through or connected to it. The manufacturer will not be responsible for any charges that result from such unauthorized use.

### B. Incidence of Harm

If a telephone company determines that the equipment provided to customer is faulty and possibly causing harm or interruption in service to the telephone network, it should disconnect telephone service until repair can be done. A telephone company may temporarily disconnect service as long as repair is not done.

### C. Changes in Service

A local telephone company may make changes in its communications facilities or procedure. If these changes could reasonably be expected to affect the use of the phones or compatibility with the net work, the telephone company is required to give advanced written notice to the user, allowing the user to take appropriate steps to maintain telephone service.

### D. Maintenance Limitations

Maintenance limitations on the phones must be performed only by the manufacturer or its authorized agent. The user may not make any changes and/or repairs expect as specifically noted in this manual. Therefore, note that unauthorized alternations or repair may affect the regulatory status of the system and may void any remaining warranty.

### E. Notice of Radiated Emissions

This model complies with rules regarding radiation and radio frequency emission as defined by local regulatory agencies. In accordance with these agencies, you may be required to provide information such as the following to the end user.

### F. Pictures

The pictures in this manual are for illustrative purposes only; your actual hardware may look slightly different.

### G. Interference and Attenuation

A phone may interfere with sensitive laboratory equipment, medical equipment, etc. Interference from unsuppressed engines or electric motors may cause problems.

### H. Electrostatic Sensitive Devices

#### ATTENTION

Boards, which contain Electrostatic Sensitive Device (ESD), are indicated by the  sign.

Following information is ESD handling:

- Service personnel should ground themselves by using a wrist strap when exchange system boards.
- When repairs are made to a system board, they should spread the floor with anti-static mat which is also grounded.
- Use a suitable, grounded soldering iron.
- Keep sensitive parts in these protective packages until these are used.
- When returning system boards or parts like EEPROM to the factory, use the protective package as described.

## 2. PERFORMANCE

### 2.1 Product Name

P705 : WCDMA900/2100+EGSM/GSM850/DCS/PCS

(HSDPA 7.2Mbps GPRS Class 12 / EDGE Class 12)

### 2.2 Supporting Standard

| Item                 | Feature                                                                                                                                                                                                                                                                                                                                                                       | Comment |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Supporting Standard  | WCDMA(FDD1,8)/EGSM/GSM850/DCS1800/PCS1900<br>Phase 2+(include AMR)<br>SIM Toolkit: Class 1, 2, 3, C(Partially Support)                                                                                                                                                                                                                                                        |         |
| Frequency Range      | WCDMA(FDD1) TX : 1920 – 1980 MHz<br>WCDMA(FDD1) RX : 2110 – 2170 MHz<br>WCDMA(FDD8) TX : 880~915 MHz<br>WCDMA(FDD8) RX : 925~960 MHz<br>EGSM TX: 880 – 915 MHz<br>EGSM RX: 925 – 960 MHz<br>GSM850 TX: 824 – 849 MHz<br>GSM850 RX: 869 – 894 MHz<br>DCS1800 TX : 1710 – 1785 MHz<br>DCS1800 RX: 1805 – 1880 MHz<br>PCS1900 TX: 1850 – 1910 MHz<br>PCS1900 RX: 1930 – 1990 MHz |         |
| Application Standard | Android Browser (Webkit 533.1)                                                                                                                                                                                                                                                                                                                                                |         |

### 2.3 Main Parts : GSM Solution

| Item             | Part Name           | Comment |
|------------------|---------------------|---------|
| Digital Baseband | MSM7227A: Qualcomm  |         |
| Analog Baseband  | PM8029 : Qualcomm   |         |
| RF Chip          | RTR6285A : Qualcomm |         |

### 2.4 HW Features

| Item                  |                        | Feature                                                                                                                                    | Comment                                                                            |
|-----------------------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| Form Factor           |                        | DOP type                                                                                                                                   |                                                                                    |
| Battery               |                        | 1) Capacity<br>Standard : Li-Ion , 1700mAh                                                                                                 |                                                                                    |
|                       |                        | 2) Packing Type : Soft Pack                                                                                                                |                                                                                    |
| Size                  |                        | Standard :<br>125.5 x 67 x 8.8 mm                                                                                                          |                                                                                    |
| Weight                |                        | 122g                                                                                                                                       | With Battery                                                                       |
| Volume                |                        | 73994.8cc                                                                                                                                  |                                                                                    |
| PCB                   |                        | L1F2 10 Layers , 0.8T                                                                                                                      |                                                                                    |
| Stand by time         |                        | 2G Up to 600 hrs<br>3G Up to 720 hrs                                                                                                       | @ Paging Period 5 (2G)<br>@ DRX 7 (3G)                                             |
| Charging time         |                        | Under 4 hrs                                                                                                                                | @ Power Off / 1700mAh                                                              |
| Talk time             |                        | 2G Up to 350mins<br>3G Up to 350mins                                                                                                       | @ Power Level Max (2G)<br>@ Tx = 12dBm LPM (3G)                                    |
| RX sensitivity        |                        | WCDMA(FDD1) : -106.7 dBm<br>WCDMA(FDD8) : -104.7 dBm<br>EGSM : -105 dBm<br>GSM850 : -105 dBm<br>DCS 1800 : -105 dBm<br>PCS 1900 : -105 dBm |                                                                                    |
| TX<br>output<br>power | WCDMA/<br>GSM/<br>GPRS | WCDMA : 24dBm/3.84MHz,+1/-3dBm<br>EGSM : 33dBm<br>GSM850 : 33 dBm<br>DCS 1800 : 30 dBm<br>PCS 1900 : 30 dBm                                | Class3 (WCDMA)<br>Class4 (EGSM)<br>Class4 (GSM850)<br>Class1 (PCS)<br>Class1 (DCS) |
|                       | EDGE                   | Half EDGE (RX Only)                                                                                                                        |                                                                                    |
| GPRS compatibility    |                        | GPRS Class 12                                                                                                                              |                                                                                    |
| EDGE compatibility    |                        | EDGE Class 12                                                                                                                              |                                                                                    |
| SIM card type         |                        | Plug-In SIM<br>3V /1.8V                                                                                                                    |                                                                                    |
| Display               |                        | TFT Main LCD(4.3', WVGA 800 x 480)                                                                                                         |                                                                                    |

## 2. PERFORMANCE

|                               |                                                   |                                                                    |
|-------------------------------|---------------------------------------------------|--------------------------------------------------------------------|
| Built-in Camera               | 5M AF                                             |                                                                    |
| Status Indicator              | No                                                |                                                                    |
| Keypad                        | Function key : 1<br>Side Key : 2<br>Power key : 1 | Function Key:<br>Home, Back, Menu,<br>Side Key :<br>Volume up/down |
| ANT                           | Main : Internal Fixed Type                        | LDS type                                                           |
| System connector              | 5 Pin                                             |                                                                    |
| Ear Phone Jack                | 3.5Phi, 4 Pole, Stereo                            |                                                                    |
| PC synchronization            | Yes                                               |                                                                    |
| Memory                        | eMMC : 4GByte<br>DRAM : 4Gbit                     |                                                                    |
| Speech coding                 | FR, EFR, HR, AMR                                  |                                                                    |
| Data & Fax                    | Built in Data & Fax support                       |                                                                    |
| Vibrator                      | Built in Vibrator                                 |                                                                    |
| Blue Tooth                    | V3.0                                              |                                                                    |
| MIDI(for Buzzer Function)     | SW Decoded 64Poly                                 |                                                                    |
| Music Player                  | MP3/ WMA/AAC/HE-<br>AAC/EAAC+/OGG/FLAC            |                                                                    |
| Video Player                  | MPEG4, H.263, H.264/DivX/Xvid/VP8                 |                                                                    |
| Camcorder                     | MPEG4, H.263, H.264                               |                                                                    |
| Voice Recording               | Yes                                               |                                                                    |
| Speaker Phone Mode<br>Support | Yes                                               |                                                                    |
| Travel Adapter                | Yes                                               |                                                                    |
| CDROM                         | No                                                |                                                                    |
| Stereo Headset                | Yes                                               | Inbox                                                              |
| Data Cable                    | Yes                                               |                                                                    |
| T-Flash<br>(External Memory)  | Yes                                               | Not inbox                                                          |

### 2.5 SW Features

| Item                       | Feature                                                                                              | Comment |
|----------------------------|------------------------------------------------------------------------------------------------------|---------|
| RSSI                       | 0 ~ 4 Levels                                                                                         |         |
| Battery Charging           | 0 ~ 20 Levels                                                                                        |         |
| Key Volume                 | 0 ~ 7 Level                                                                                          |         |
| Audio Volume               | 0 ~ 7 Level                                                                                          |         |
| Time / Date Display        | Yes                                                                                                  |         |
| Multi-Language             | Yes                                                                                                  |         |
| Quick Access Mode          | Dialing/ Contact / Menu /<br>Message                                                                 |         |
| PC Sync                    | Yes                                                                                                  |         |
| Speed Dial                 | Yes                                                                                                  |         |
| Profile                    | Yes                                                                                                  |         |
| CLIP / CLIR                | Yes                                                                                                  |         |
| Phone Book                 | Name / Number / Email /<br>Website/Postal<br>addresses/Organizations/Gro<br>ups/ Birthday / Ringtone |         |
| Last Dial Number           | Yes                                                                                                  |         |
| Last Received<br>Number    | Yes                                                                                                  |         |
| Last Missed Number         | Yes                                                                                                  |         |
| Search by Number<br>/ Name | Yes                                                                                                  |         |
| Group                      | Yes                                                                                                  |         |
| Fixed Dial Number          | Yes                                                                                                  |         |
| Service Dial Number        | No                                                                                                   |         |
| Own Number                 | Yes                                                                                                  |         |
| Voice Memo                 | Yes                                                                                                  |         |

## 2. PERFORMANCE

|                                    |                                                                                       |                                                                                |
|------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| Call Reminder                      | No                                                                                    |                                                                                |
| Network Selection                  | Automatic                                                                             |                                                                                |
| Mute                               | Yes                                                                                   |                                                                                |
| Call Divert                        | Yes                                                                                   |                                                                                |
| Call Barring                       | Yes                                                                                   |                                                                                |
| Call Charge (AoC)                  | Yes                                                                                   |                                                                                |
| Call Duration                      | Yes                                                                                   |                                                                                |
| SMS (EMS)                          | There is no limitation on the number of items. It depends on available memory amount. | EMS does not support.                                                          |
| SMS Over GPRS                      | No                                                                                    |                                                                                |
| EMS Melody / Picture               | No                                                                                    |                                                                                |
| Send / Receive / Save              | No                                                                                    | EMS send / Receive / Save                                                      |
| MMS MPEG4<br>Send / Receive / Save | Yes                                                                                   |                                                                                |
| Long Message                       | MAX 2000 characters                                                                   |                                                                                |
| Cell Broadcast                     | Yes                                                                                   |                                                                                |
| Download                           | Over the Web                                                                          |                                                                                |
| Game                               | No                                                                                    |                                                                                |
| Calendar                           | Yes                                                                                   |                                                                                |
| Memo                               | Yes                                                                                   |                                                                                |
| World Clock                        | Yes                                                                                   |                                                                                |
| Unit Convert                       | No                                                                                    |                                                                                |
| Stop Watch                         | Yes                                                                                   |                                                                                |
| Wall Paper                         | Yes                                                                                   |                                                                                |
| WAP Browser                        | No                                                                                    | Support only web browser based on webkit. WAP stack and wml are not supported. |
| Download Melody /<br>Wallpaper     | Yes                                                                                   | Over web browser                                                               |
| SIM Lock                           | Yes                                                                                   | Operator Dependent                                                             |
| SIM Toolkit                        | Class 1, 2, 3                                                                         | Class C - "Browsing status                                                     |

## 2. PERFORMANCE

|                 | Partially support Class C | event" is not supported              |
|-----------------|---------------------------|--------------------------------------|
| MMS             | Yes                       |                                      |
| EONS            | No                        |                                      |
| CPHS            | Yes                       | V4.2                                 |
| ENS             | No                        |                                      |
| Camera          | Yes                       | - 5MP AF + VGA VT<br>- VGA recording |
| JAVA            | No                        |                                      |
| Voice Dial      | No                        |                                      |
| IrDa            | No                        |                                      |
| Bluetooth       | Yes                       | Ver. 3.0                             |
| FM radio        | Yes                       |                                      |
| GPRS            | Yes                       | Class 12                             |
| EDGE            | Yes                       | Class 12                             |
| Hold / Retrieve | Yes                       |                                      |
| Conference Call | Yes                       | Max. 6                               |
| DTMF            | Yes                       |                                      |
| Memo pad        | Yes                       |                                      |
| TTY             | No                        |                                      |
| AMR             | Yes                       |                                      |
| SyncML          | Yes                       |                                      |
| IM              | No                        |                                      |
| Email           | Yes                       |                                      |

### 2.6 HW SPEC.

#### 1) GSM transceiver specification

| Item                                                                                          | Specification                                                                                                                                                                              |
|-----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Phase Error                                                                                   | Rms : 5°<br>Peak : 20 °                                                                                                                                                                    |
| Frequency Error                                                                               | GSM : 0.1 ppm<br>DCS/PCS : 0.1 ppm                                                                                                                                                         |
| EMC(Radiated Spurious Emission Disturbance)                                                   | GSM/DCS : < -28dBm                                                                                                                                                                         |
| Transmitter Output power and Burst Timing                                                     | GSM : 5dBm – 33dBm ± 3dB<br>DCS/PCS : 0dBm – 30dBm ± 3dB                                                                                                                                   |
| Burst Timing                                                                                  | <3.69us                                                                                                                                                                                    |
| Spectrum due to modulation out to less than 1800kHz offset                                    | 200kHz : -36dBm<br>600kHz : -51dBm/-56dBm                                                                                                                                                  |
| Spectrum due to modulation out to larger than 1800kHz offset to the edge of the transmit band | GSM :<br>1800-3000kHz : < -63dBc(-46dBm)<br>3000kHz-6000kHz : < -65dBc(-46dBm)<br>6000kHz < : < -71dBc(-46dBm)<br>DCS :<br>1800-3000kHz : < -65dBc(-51dBm)<br>6000kHz < : < -73dBc(-51dBm) |
| Spectrum due to switching transient                                                           | 400kHz : -19dBm/-22dBm(5/0), -23dBm<br>600kHz : -21dBm/-24dBm(5/0), -26dBm                                                                                                                 |
| Reference Sensitivity – TCH/FS                                                                | Class II(RBER) : -105dBm(2.439%)                                                                                                                                                           |
| Usable receiver input level range                                                             | 0.012(-15 - -40dBm)                                                                                                                                                                        |
| Intermodulation rejection – Speech channels                                                   | ± 800kHz, ± 1600kHz<br>: -98dBm/-96dBm (2.439%)                                                                                                                                            |
| AM Suppression<br>– GSM : -31dBm<br>– DCS : -29dBm                                            | -98dBm/-96dBm (2.439%)                                                                                                                                                                     |
| Timing Advance                                                                                | ± 0.5T                                                                                                                                                                                     |

### 2) WCDMA transmitter specification

| Item                                           | Specification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Transmit Frequency                             | Band1 : 1920 MHz ~ 1980 MHz<br>Band8 : 880MHz ~ 915MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Maximum Output Power                           | +24 dBm / 3.84 MHz, +1 / -3 dB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Frequency Error                                | within $\pm 0.1$ PPM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Open Loop Power Control                        | Normal Conditions : within $\pm 9$ dB,<br>Extreme Conditions : within $\pm 12$ dB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Minimum Transmit Power                         | < -50 dBm / 3.84 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Occupied Bandwidth                             | < 5 MHz at 3.84 Mcps (99% of power)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Adjacent Channel Leakage<br>Power Ratio (ACLR) | > 33 dB @ $\pm 5$ MHz,<br>> 43 dB @ $\pm 10$ MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Spurious Emissions<br>$ f - f_c  > 12.5$ MHz   | < -36 dBm / 1 kHz RW @ $9 \text{ kHz} \leq f < 150 \text{ kHz}$<br>< -36 dBm / 10 kHz RW @ $150 \text{ kHz} \leq f < 30 \text{ MHz}$<br>< -36 dBm / 100 kHz RW @ $30 \text{ MHz} \leq f < 1 \text{ GHz}$<br>< -30 dBm / 1 MHz RW @ $1 \text{ GHz} \leq f < 12.75 \text{ GHz}$<br>< -60 dBm / 3.84 MHz RW @ $869 \text{ MHz} \leq f \leq 894 \text{ MHz}$<br>< -60 dBm / 3.84 MHz RW @ $1930 \text{ MHz} \leq f \leq 1900 \text{ MHz}$<br>< -60 dBm / 3.84 MHz RW @ $2110 \text{ MHz} \leq f \leq 2155 \text{ MHz}$<br>< -67 dBm / 100 kHz RW @ $925 \text{ MHz} \leq f \leq 935 \text{ MHz}$<br>< -79 dBm / 100 kHz RW @ $935 \text{ MHz} < f \leq 960 \text{ GHz}$<br>< -71 dBm / 100 kHz RW @ $1805 \text{ MHz} \leq f \leq 1880 \text{ MHz}$<br>< -41 dBm / 300 kHz RW @ $1884.5 \text{ MHz} < f < 1919.6 \text{ MHz}$ |
| Transmit Intermodulation                       | < -31 dBc @ 5 MHz & < -41 dBc @ 10 MHz<br>when Interference CW Signal Level = -40 dBc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Error Vector Magnitude                         | < 17.5 %, when Pout $\geq$ -20 dBm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Peak Code Domain Error                         | < -15 dB at Pout $\geq$ -20 dBm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

### 3) WCDMA receiver specification

| Item                                  | Specification                                                                                                                                                                                                                                                                                                                                                                                                              |           |           |     |     |    |          |      |        |   |           |           |           |    |           |       |         |    |        |         |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------|-----|-----|----|----------|------|--------|---|-----------|-----------|-----------|----|-----------|-------|---------|----|--------|---------|
| Receive Frequency                     | Band1 : 2110 ~ 2170 MHz<br>Band8 : 925~960MHz                                                                                                                                                                                                                                                                                                                                                                              |           |           |     |     |    |          |      |        |   |           |           |           |    |           |       |         |    |        |         |
| Reference Sensitivity Level           | Band1 : BER < 0.001 when $\hat{I}_{or}$ = -106.7 dBm / 3.84 MHz<br>Band8 : BER < 0.001 when $\hat{I}_{or}$ = -103.7 dBm / 3.84 MHz                                                                                                                                                                                                                                                                                         |           |           |     |     |    |          |      |        |   |           |           |           |    |           |       |         |    |        |         |
| Maximum Input Level                   | BER < 0.001 when $\hat{I}_{or}$ = -25 dBm / 3.84 MHz                                                                                                                                                                                                                                                                                                                                                                       |           |           |     |     |    |          |      |        |   |           |           |           |    |           |       |         |    |        |         |
| Adjacent Channel Selectivity<br>(ACS) | ACS > 33 dB where BER < 0.001 when<br>$\hat{I}_{or}$ = -92.7dBm / 3.84 MHz & loac = -52 dBm / 3.84 MHz @ $\pm 5$ MHz(Band1)<br>$\hat{I}_{or}$ = -89.7dBm / 3.84 MHz & loac = -52 dBm / 3.84 MHz @ $\pm 5$ MHz(Band8)                                                                                                                                                                                                       |           |           |     |     |    |          |      |        |   |           |           |           |    |           |       |         |    |        |         |
| Blocking Characteristic               | BER < 0.001 when $\hat{I}_{or}$ = -103.7 dBm / 3.84 MHz<br>& lblocking = -56 dBm / 3.84 MHz @ Fuw(offset) = $\pm 10$ MHz<br>or lblocking = -44 dBm / 3.84 MHz @ Fuw(offset) = $\pm 15$ MHz                                                                                                                                                                                                                                 |           |           |     |     |    |          |      |        |   |           |           |           |    |           |       |         |    |        |         |
| Spurious Response                     | BER < 0.001 when $\hat{I}_{or}$ = -103.7 dBm / 3.84 MHz<br>& lblocking = -44 dBm                                                                                                                                                                                                                                                                                                                                           |           |           |     |     |    |          |      |        |   |           |           |           |    |           |       |         |    |        |         |
| Intermodulation                       | BER < 0.001 when $\hat{I}_{or}$ = -103.7 dBm / 3.84 MHz, $\hat{I}_{or}$ = -100.7 dBm/<br>3.84 MHz(Band8)<br>& louw1 = -46 dBm @ Fuw1(offset) = $\pm 10$ MHz<br>& louw2 = -46 dBm / 3.84 MHz @ Fuw2(offset) = $\pm 20$ MHz                                                                                                                                                                                                  |           |           |     |     |    |          |      |        |   |           |           |           |    |           |       |         |    |        |         |
| Spurious Emissions                    | < -57 dBm / 100 kHz BW @ $9\text{ kHz} \leq f < 1\text{ GHz}$<br>< -47 dBm / 1 MHz BW @ $1\text{ GHz} \leq f \leq 12.75\text{ GHz}$                                                                                                                                                                                                                                                                                        |           |           |     |     |    |          |      |        |   |           |           |           |    |           |       |         |    |        |         |
| Inner Loop Power Control<br>In Uplink | Adjust output(TPC command)<br><table><tr><td>cmd</td><td>1dB</td><td>2dB</td><td>3dB</td></tr><tr><td>+1</td><td>+0.5/1.5</td><td>+1/3</td><td>+1.5/4</td></tr><tr><td>0</td><td>-0.5/+0.5</td><td>-0.5/+0.5</td><td>-0.5/+0.5</td></tr><tr><td>-1</td><td>-0.5/-1.5</td><td>-1/-3</td><td>-1.5/-4</td></tr></table><br>group(10equal command group)<br><table><tr><td>+1</td><td>+8/+12</td><td>+16/+24</td></tr></table> | cmd       | 1dB       | 2dB | 3dB | +1 | +0.5/1.5 | +1/3 | +1.5/4 | 0 | -0.5/+0.5 | -0.5/+0.5 | -0.5/+0.5 | -1 | -0.5/-1.5 | -1/-3 | -1.5/-4 | +1 | +8/+12 | +16/+24 |
| cmd                                   | 1dB                                                                                                                                                                                                                                                                                                                                                                                                                        | 2dB       | 3dB       |     |     |    |          |      |        |   |           |           |           |    |           |       |         |    |        |         |
| +1                                    | +0.5/1.5                                                                                                                                                                                                                                                                                                                                                                                                                   | +1/3      | +1.5/4    |     |     |    |          |      |        |   |           |           |           |    |           |       |         |    |        |         |
| 0                                     | -0.5/+0.5                                                                                                                                                                                                                                                                                                                                                                                                                  | -0.5/+0.5 | -0.5/+0.5 |     |     |    |          |      |        |   |           |           |           |    |           |       |         |    |        |         |
| -1                                    | -0.5/-1.5                                                                                                                                                                                                                                                                                                                                                                                                                  | -1/-3     | -1.5/-4   |     |     |    |          |      |        |   |           |           |           |    |           |       |         |    |        |         |
| +1                                    | +8/+12                                                                                                                                                                                                                                                                                                                                                                                                                     | +16/+24   |           |     |     |    |          |      |        |   |           |           |           |    |           |       |         |    |        |         |

### 4) HSDPA transmitter specification

| Item                                        | Specification                                                                                                                                                                                                                                            |            |                                   |                         |                                       |
|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------------------------------|-------------------------|---------------------------------------|
| Transmit Frequency                          | Band1 : 1920 MHz ~ 1980 MHz<br>Band8 : 880MHz ~ 915MHz                                                                                                                                                                                                   |            |                                   |                         |                                       |
| Maximum Output Power                        | Sub-Test<br>1=1/15,                      2=12/15                      21~25dBm / 3.84 MHz<br>3=13/15                      4=15/8                      20~25dBm / 3.84 MHz<br>5=15/7                      6=15/0                      19~25dBm / 3.84 MHz |            |                                   |                         |                                       |
| HS-DPCCH                                    | Sub-test in table C.10.1.4                                                                                                                                                                                                                               | Power step | Power step slot boundary          | Power step size, P [dB] | Transmitter power step tolerance [dB] |
|                                             | 5                                                                                                                                                                                                                                                        | 1          | Start of Ack/Nack                 | 6                       | +/- 2.3                               |
|                                             |                                                                                                                                                                                                                                                          | 2          | Start of CQI                      | 1                       | +/- 0.6                               |
|                                             |                                                                                                                                                                                                                                                          | 3          | Middle of CQI                     | 0                       | +/- 0.6                               |
|                                             |                                                                                                                                                                                                                                                          | 4          | End of CQI                        | 5                       | +/- 2.3                               |
| Spectrum Emission Mask                      | Sub-Test : 1=1/15, 2=12/15, 3=13/15, 4=15/8, 5=15/7, 6=15/0                                                                                                                                                                                              |            |                                   |                         |                                       |
|                                             | Frequency offset from carrier $\Delta f$                                                                                                                                                                                                                 |            | Minimum requirement               |                         | Measurement Bandwidth                 |
|                                             | 2.5 ~ 3.5 MHz                                                                                                                                                                                                                                            |            | -35-15 $\times(\Delta f-2.5)$ dBc |                         | 30 kHz                                |
|                                             | 3.5 ~ 7.5 MHz                                                                                                                                                                                                                                            |            | -35-1 $\times(\Delta f-3.5)$ dBc  |                         | 1 MHz                                 |
|                                             | 7.5 ~ 8.5 MHz                                                                                                                                                                                                                                            |            | -35-10 $\times(\Delta f-7.5)$ dBc |                         | 1 MHz                                 |
|                                             | 8.5 ~ 12.5 MHz                                                                                                                                                                                                                                           |            | -49dBc                            |                         | 1 MHz                                 |
| Adjacent Channel Leakage Power Ratio (ACLR) | Sub-Test : 1=1/15, 2=12/15, 3=13/15, 4=15/8, 5=15/7, 6=15/0<br><br>> 33 dB @ $\pm 5$ MHz<br>> 43 dB @ $\pm 10$ MHz                                                                                                                                       |            |                                   |                         |                                       |
| Error Vector Magnitude                      | < 17.5 %, when Pout $\geq$ -20 dBm                                                                                                                                                                                                                       |            |                                   |                         |                                       |

**5) HSDPA receiver specification**

| Item                                           | Specification                                                                             |
|------------------------------------------------|-------------------------------------------------------------------------------------------|
| Receive Frequency                              | Band1 : 2110 MHz ~ 2170 MHz<br>Band8 : 925 MHz ~ 960 MHz                                  |
| Maximum Input Level<br>(BLER or R), 16QAM Only | Sub-Test : 1=1/15, 2=12/15, 3=13/15, 4=15/8, 5=15/7, 6=15/0<br>BLER < 10% or R >= 700kbps |

**6) WLAN 802.11b transceiver specification**

| Item                              | Specification                                                                                                                                                            |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Transmit Frequency                | 2400 MHz ~ 2483.5 MHz ( CH1~CH13 )                                                                                                                                       |
| Tx Power Level                    | ≤ 20dBm under (Europe), ≤ 30dBm under (USA)                                                                                                                              |
| Frequency Tolerance               | within ±25 PPM                                                                                                                                                           |
| Chip clock Frequency<br>Tolerance | within ±25 PPM                                                                                                                                                           |
| Spectrum Mask                     | ≤ -30 @ $f_c - 22\text{MHz} < f < f_c + 11\text{MHz}$ and $f_c + 11\text{MHz} < f < f_c + 22\text{MHz}$<br>≤ -50 @ $f < f_c - 22\text{MHz}$ and $f > f_c + 22\text{MHz}$ |
| Power ramp on/off time            | ≤ 2us                                                                                                                                                                    |
| Carrier Suppression               | ≤ -15dB                                                                                                                                                                  |
| Modulation Accuracy<br>(Peak EVM) | ≤ 35%                                                                                                                                                                    |
| Spurious Emissions                | < -36 dBm @ 30MHz ~ 1GHz<br>< -30 dBm above @ 1GHz ~ 12.75GHz<br>< -47 dBm @ 1.8GHz ~ 1.9GHz<br>< -47 dBm @ 5.15GHz ~ 5.3GHz                                             |
| Rx Min input Sensitivity          | ≤ -76dBm(1Mbps,2Mbps,5.5Mbps,11Mbps) @ FER ≤ 8%                                                                                                                          |
| Rx Max input Sensitivity          | ≥ -10dBm(1Mbps,2Mbps,5.5Mbps,11Mbps) @ FER ≤ 8%                                                                                                                          |
| Rx Adjacent Channel<br>Rejection  | ≥ 35dB @ FER ≤ 8%,<br>interference input signal -70dBm@ $f_c \pm 25\text{MHz}$ (11Mbps)                                                                                  |

### 7) WLAN 802.11g transceiver specification

| Item                                      | Specification                                                                                                                                                                                                                                                                                                            |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Transmit Frequency                        | 2400 MHz ~ 2483.5 MHz ( CH1~CH13 )                                                                                                                                                                                                                                                                                       |
| Tx Power Level                            | ≤ 20dBm under (Europe), ≤ 30dBm under (USA)                                                                                                                                                                                                                                                                              |
| Frequency Tolerance                       | within ±25 PPM                                                                                                                                                                                                                                                                                                           |
| Chip clock Frequency Tolerance            | within ±25 PPM                                                                                                                                                                                                                                                                                                           |
| Spectrum Mask                             | ≤ -20 @ ±11MHz offset (9Mhz ~ 11MHz)<br>≤ -28 @ ±20MHz offset (11MHz ~ 20Mhz)<br>≤ -40 @ ±30MHz offset (20MHz ~ 30Mhz)                                                                                                                                                                                                   |
| Transmitter constellation error (rms EVM) | ≤ -5dB@6Mbps, -8dB@9Mbps, -10dB@12Mbps, -13dB@18Mbps,<br>-16dB@24Mbps, -19dB@36Mbps, -22dB@48Mbps,<br>-25dB@54Mbps                                                                                                                                                                                                       |
| Spurious Emissions                        | < -36 dBm @ 30MHz ~ 1GHz<br>< -30 dBm above @ 1GHz ~ 12.75GHz<br>< -47 dBm @ 1.8GHz ~ 1.9GHz<br>< -47 dBm @ 5.15GHz ~ 5.3GHz                                                                                                                                                                                             |
| Rx Min input Sensitivity                  | PER ≤ 10%<br>-82dBm@6Mbps, -81dBm@9Mbps, -79dBm@12Mbps<br>-77dBm@18Mbps, -74dBm@24Mbps, -70dBm@36Mbps<br>-66dBm@48Mbps, -65dBm@54Mbps                                                                                                                                                                                    |
| Rx Max input Sensitivity                  | ≥ -20dBm(6,9,12,18,24,36,48,54Mbps) @ PER ≤ 10%                                                                                                                                                                                                                                                                          |
| Rx Adjacent Channel Rejection             | PER ≤ 10%,<br>ACR ≥ 16dB@6Mbps, ACR ≥ 15dB@9Mbps,<br>ACR ≥ 13dB@12Mbps, ACR ≥ 11dB@18Mbps,<br>ACR ≥ 8dB@24Mbps, ACR ≥ 4dB@36Mbps<br>ACR ≥ 0dB@48Mbps, ACR ≥ -1dB@54Mbps<br>※ ACR shall be measured by setting the desired signal's strength 3 dB above the rate-dependent sensitivity specified in min input sensitivity |

### 8) WLAN 802.11n transceiver specification

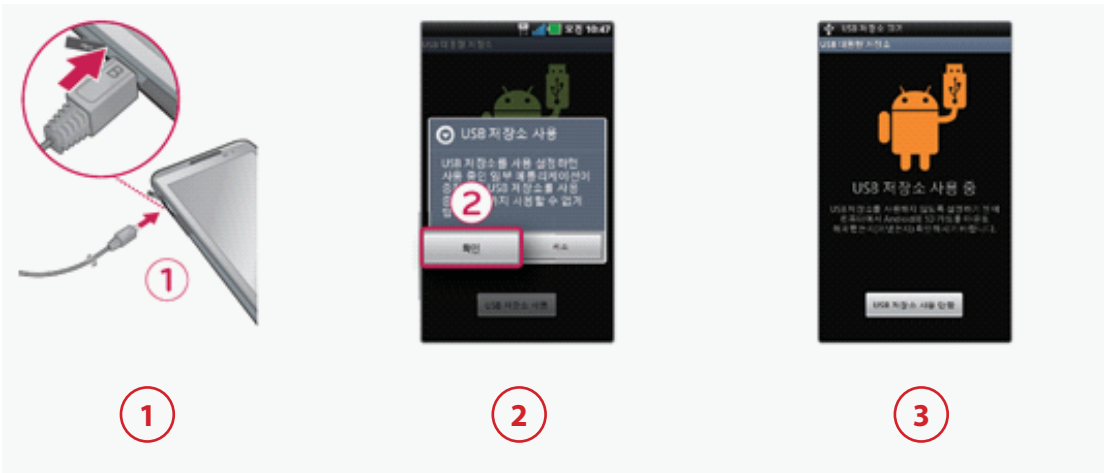
| Item                                      | Specification                                                                                                                                                                                                                                                                                                                   |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Transmit Frequency                        | 2400 MHz ~ 2483.5 MHz ( CH1~CH13 )                                                                                                                                                                                                                                                                                              |
| Tx Power Level                            | ≤ 20dBm under (Europe), ≤ 30dBm under (USA)                                                                                                                                                                                                                                                                                     |
| Frequency Tolerance                       | within ±25 PPM                                                                                                                                                                                                                                                                                                                  |
| Chip clock Frequency Tolerance            | within ±25 PPM                                                                                                                                                                                                                                                                                                                  |
| Spectrum Mask                             | ≤ -20 @ ±11MHz offset (9Mhz ~ 11MHz)<br>≤ -28 @ ±20MHz offset (11MHz ~ 20Mhz)<br>≤ -45 @ ±30MHz offset (20MHz ~ 30Mhz)                                                                                                                                                                                                          |
| Transmitter constellation error (rms EVM) | ≤ -5dB@6.5Mbps, -10dB@13Mbps, -13dB@19.5Mbps,<br>-16dB@26Mbps, -19dB@39Mbps, -22dB@52Mbps,<br>-25dB@58.5Mbps, -28dB@65Mbps                                                                                                                                                                                                      |
| Spurious Emissions                        | < -36 dBm @ 30MHz ~ 1GHz<br>< -30 dBm above @ 1GHz ~ 12.75GHz<br>< -47 dBm @ 1.8GHz ~ 1.9GHz<br>< -47 dBm @ 5.15GHz ~ 5.3GHz                                                                                                                                                                                                    |
| Rx Min input Sensitivity                  | PER ≤ 10%<br>-82dBm@6.5Mbps, -79dBm@13Mbps, -77dBm@19.5Mbps<br>-74dBm@26Mbps, -70dBm@39Mbps, -66dBm@52Mbps<br>-65dBm@58.5Mbps, -64dBm@65Mbps                                                                                                                                                                                    |
| Rx Max input Sensitivity                  | ≥ -20dBm(6.5,13,19.5,26,39,52,58.5,65Mbps) @ PER ≤ 10%                                                                                                                                                                                                                                                                          |
| Rx Adjacent Channel Rejection             | PER ≤ 10%,<br>ACR ≥ 16dB@6.5Mbps, ACR ≥ 13dB@13Mbps,<br>ACR ≥ 11dB@19.5Mbps, ACR ≥ 8dB@26Mbps,<br>ACR ≥ 4dB@39Mbps, ACR ≥ 0dB@52Mbps<br>ACR ≥ -1dB@58.5Mbps, ACR ≥ -2dB@65Mbps<br>※ ACR shall be measured by setting the desired signal's strength 3 dB above the rate-dependent sensitivity specified in min input sensitivity |

### 10) GPS receiver specification

| Item                | Specification                                                                                |
|---------------------|----------------------------------------------------------------------------------------------|
| Receive Frequency   | 1574.42 MHz ~ 1576.42 MHz                                                                    |
| Minimum Sensitivity | 1 satellite $\geq -142\text{dBm}$ , 7 satellites $\geq -147\text{dBm}$ at coarse time aiding |

## 3. CIC AND SERVICE CENTER

### 3.1 FAQ Questions

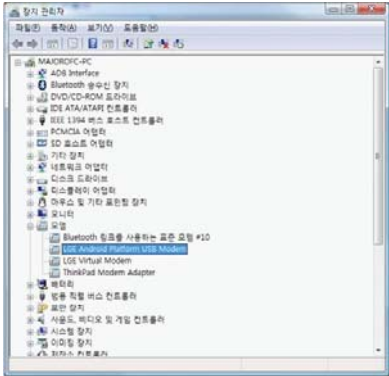
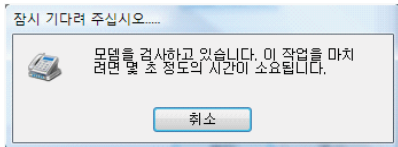
| No | FAQ                  | Q&A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | <b>Q</b>             | I can't remember the PhoneLock password.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|    | <b>A</b>             | <ol style="list-style-type: none"> <li>1. When you forget the pattern (password), and enter wrong patterns five times on Android phones, you can create a new pattern by logging in on your Gmail account as long as the account is activated on your phone. Unless your Gmail account is not activated, you can visit the service center to get the factory reset for the pattern (password).</li> <li>2. TBD</li> <li>3. 3845#*705# -&gt; WCDMA Only -&gt; Factory Reset -&gt; Factory Reset ( !!Do not disclose!! )</li> </ol> |
|    | Development requests | <ol style="list-style-type: none"> <li>1. How to disable Pattern Lock, Password and PIN.</li> <li>2. Request to check out if it is specified in the user manual.</li> <li>3. Description on HW Factory Reset Key combination and how to do it.</li> </ol>                                                                                                                                                                                                                                                                         |
| 2  | <b>Q</b>             | How do I put in and take out files from the SD card?                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|    | <b>A</b>             |  <p>On the 'USB in Use' screen as above, go to My Computer&gt;p705F&gt;select SD Card</p>                                                                                                                                                                                                                                                                                                                                                     |
|    | Development requests | <ol style="list-style-type: none"> <li>1.PC&lt;-&gt; SD CARD</li> <li>2.PHONE&lt;-&gt; SD CARD</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                         |

| No                   | FAQ                                                                       | Q&A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------|---------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3                    | <b>Q</b> I use it abroad, but 3G connection doesn't work.                 | <p><b>A</b></p> <ol style="list-style-type: none"> <li>1. Press the Menu, go to the SetUp, and press More on Wireless and Network</li> <li>2. Press Mobile Network under the Wireless and Network, and press the Network Administrator.</li> <li>3. Press the Network Search, browse available networks, select a network you are to use and connect the network.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Development requests | ex) 1. Europe<->Europe<br>2. Europe<->Continents(North America, Asia etc) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 4                    | <b>Q</b> The GPS location isn't right, what should I do?                  | <p>1. Make sure GPS, Wi-Fi and 3G networks are ticked off (or checked) for availability.</p> <div data-bbox="308 1137 1361 1552" data-label="Image"> </div> <p><b>A</b></p> <ul style="list-style-type: none"> <li>* Select the Wireless Network, GPS Satellite and GPS Help (allowing access to the GPS Help server). GPS(outdoors), WiFi and 3G Network(indoors/outdoors) are all available indoors and outdoors. You should select the GPS Satellite for precise positioning.</li> <li>* Select the GPS Satellite together with the GPS Help(allowing access to GPS Help server).</li> </ul> <p>(The GPS Help feature is automatically chosen upon your selecting the GPS Satellite on 2X and higher products.) The satellite information is downloaded to the phone via the server, which guarantees more precise and faster display of positioning information.</p> |

| No | FAQ                                                   | Q&A                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----|-------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5  | <b>Q</b> The downloaded application isn't compatible? | <p>You need to check out if the application is interoperable with the current OS version on your smartphone.</p> <p>Go to SetUp&gt;check out the Android version in use on the smartphone under the Phone Info. Check out the OS version supported on the Download Page for apps downloaded.</p> <p>Download the version interoperable with the OS.</p> <p>Some applications may not be interoperable due to resolution issues, e.g. Pad/ Optimus View.</p> |
| 6  | <b>Q</b> How do I make an e-mail account?             | <p><b>A</b></p>  <p>Depending on models, menus may differ from the screen above.</p>                                                                                                                                                                                                                                                                                    |
| 7  | <b>Q</b> E-mail registration doesn't work.            | <p><b>A</b></p> <p>Make sure you've entered correct ID and Password.</p> <p>Check out if the internet connection is properly done via 3G/WiFi.</p>                                                                                                                                                                                                                                                                                                          |

| No | FAQ      | Q&A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8  | <b>Q</b> | Unused application shows up as a using program even though it is all killed. What should I do?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|    | <b>A</b> | <p>On Android OS system, default apps keep working automatically in the background in favor of OS stability and better system performance. Such apps are displayed in the process list even after the user ends apps with the Task Killer.</p> <ol style="list-style-type: none"> <li>1. Task Killer will end an application.</li> <li>2. Services necessary for phone operation are run automatically in the background and displayed on the list, although the applications are not run (i.e. applications that need keep running).</li> <li>3. When you run any functions on the phone, the service internally called will in turn call relevant process, which will be displayed on the list (i.e. applications called along for fast driving and safe program running).</li> <li>4. A particular operation will automatically call relevant processes, which are showed on the list. The processes vary depending on applications. Some apps needed for background tasks will be displayed on the list even when they are ended.</li> </ol> <p>When you set the Task Killer to Auto Kill the entire items, functions necessary for daily use (e.g. Kakao Talk) will be forcefully ended, causing trouble.</p> |

| No | FAQ      | Q&A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9  | <b>Q</b> | Wifi connection doesn't work well.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|    | <b>A</b> | <p>Internet connection speed may vary depending on wireless internet line, speed spec, the number of users connected and signal cancellation.</p> <p>1) Internet line(wireless internet). Wireless routers generating Wi-Fi signals are connected to internet lines or wireless internet. Depending on the lines connected to the internet, maximal Wi-Fi speeds may have limits.</p> <p>* Check out if the wireless router supports normal data speed.</p> <p>* Benchbee app can measure WiFi and 3G speeds.</p> <p>2) Speed spec. Wi-Fi protocols have developed in the order of 802.11b-&gt;g-&gt;a-&gt;n. 802.11n provides the best speed, which cannot be used to the full if either the wireless router sending the signal or the smartphone receiving it does not support the protocol.</p> <p>3) Number of users connected: Speed may drop when a number of users are connected to an AP.</p> <p>4) Signal cancellation: Prevailing Wi-Fi signals around city centers cause crosstalks and fading, leading to disconnection or aborted connection.</p> |
| 10 | <b>Q</b> | How do you install the PC Sync Program?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|    | <b>A</b> | Connect the phone to USB-> 'USB Connection Type' screen appears->select PC Software->Screen for LG PC Suite Installation Guide appears>download and install.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 11 | <b>Q</b> | How do you install the Phone driver?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|    | <b>A</b> | Go to <a href="http://www.lgmobile.co.kr">www.lgmobile.co.kr</a> . Download Center at the top->search the Model Name->download the Driver.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

| No | FAQ      | Q&A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 12 | <b>Q</b> | How to connect internet/data network                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|    | <b>A</b> | <ol style="list-style-type: none"> <li>1.Press the Menu and go to Setup.</li> <li>2.Press More on Wireless and Network</li> <li>3. Select Mobile Network</li> <li>4. Tick off the Data Connection Allowed.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 13 | <b>Q</b> | What should I do to connect PC Sync program with the phone?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|    | <b>A</b> | <p>My Computer-&gt;click right side for Attributes-&gt;Hardware-&gt;run 'Device Manager'<br/> In Win 7, Control Panel-&gt;System-&gt;run 'Device Manager'<br/> Click Modem under the Device Manager and see the Tree.</p>  <p>Check out if LGE Android Platform USB Modem is there as in the blue section above. Or, if there is one, check out if the icon has a yellow exclamation mark(!).</p> <p>Unless the modem above is there, or if the icon has the ! mark, disconnect the cable and reconnect it. If it still does not work, turn the phone off and turn it on.</p> <p>If the modem abovementioned is there, or unless the yellow ! is seen, click the right side on the modem and go to Attribute Menu-&gt;click the Diagnosis tab in the popup window-&gt;click the Modem Query</p>  <p>If the test window as above stays for over 1 min, or when any error messages pop up, try #5 and reconnect or reboot the phone.</p> |

| No                   | FAQ      | Q&A                                                                                                                                                                                         |
|----------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 14                   | <b>Q</b> | Can language be changed?                                                                                                                                                                    |
|                      | <b>A</b> | For language setting, try the right button at the bottom->System Setup->Language and Input->Language<br>Or, select the Setup App in the Menu and set the language at the Language and Input |
| 15                   | <b>Q</b> | How do you Reset and Factory Reset?                                                                                                                                                         |
|                      | <b>A</b> | Select Setup App in the Menu. Then, Backup and Factory Reset->Factory Reset->select Factory Reset for the phone                                                                             |
| 16                   | <b>Q</b> | I want to change the bell sound.                                                                                                                                                            |
|                      | <b>A</b> | Select the Setup App from the Menu. Then, select Sound->Bell Sound                                                                                                                          |
| 17                   | <b>Q</b> | Is it compatible with other devices?                                                                                                                                                        |
|                      | <b>A</b> | 1. Bluetooth<br>2. Wifi-direct                                                                                                                                                              |
| Development requests |          | ex) 1. Bluetooth<br>2. other                                                                                                                                                                |
| 18                   | <b>Q</b> | How do you use HDMI?                                                                                                                                                                        |
|                      | <b>A</b> | The model does not support the function.                                                                                                                                                    |

| No | FAQ      | Q&A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 19 | <b>Q</b> | HDMI error occurs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|    | <b>A</b> | The model does not support the function.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 20 | <b>Q</b> | How do you use Smart Share?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|    | <b>A</b> | <p>Your phone can share the media content on the network with other players.</p> <ol style="list-style-type: none"> <li>1. Press Menu -&gt; select SmartShare. <ul style="list-style-type: none"> <li>- Wi-Fi network connection should work. If not, a screen for Wi-Fi connection will appear.</li> </ul> </li> <li>2. At 'From,' set up the library to view the content list. <ul style="list-style-type: none"> <li>- The content list on the device will be displayed, if any devices were connected previously.</li> </ul> </li> <li>3. Set up a content player at 'To.' <ul style="list-style-type: none"> <li>- Only applicable devices (e.g. DLNA-supported TV, PC etc.) can be set up.</li> </ul> </li> <li>4. Select the item from the content list and play it. <ul style="list-style-type: none"> <li>- Press the content long to play it or view detailed information</li> <li>- Press Menu button and run Play, Upload/Download, Setup and Help features right away.</li> </ul> </li> <li>5. Upload or download to and from the content list. <ul style="list-style-type: none"> <li>- You can upload the content from your phone to other devices.</li> <li>- You can download and save the content from external libraries to your phone.</li> <li>- You can see the download/upload status at the notification bar.</li> <li>- Downloaded/uploaded items are saved in the SmartShare folder.</li> </ul> </li> <li>6. You can set up DMS in the Setup Menu. <ul style="list-style-type: none"> <li>- Search and Browse – Other DLNA-supported devices can search your phone.</li> <li>- Device Name – Set up names and icons to be displayed on other devices.</li> <li>- Auto Connection – Automatically accept requests for sharing from other devices.</li> <li>- File Reception – Allow other devices to upload files to your phone.</li> <li>- My Media – You can share only the media type that you want to share.</li> </ul> </li> </ol> |

### 3.CIC AND SERVICE CENTER

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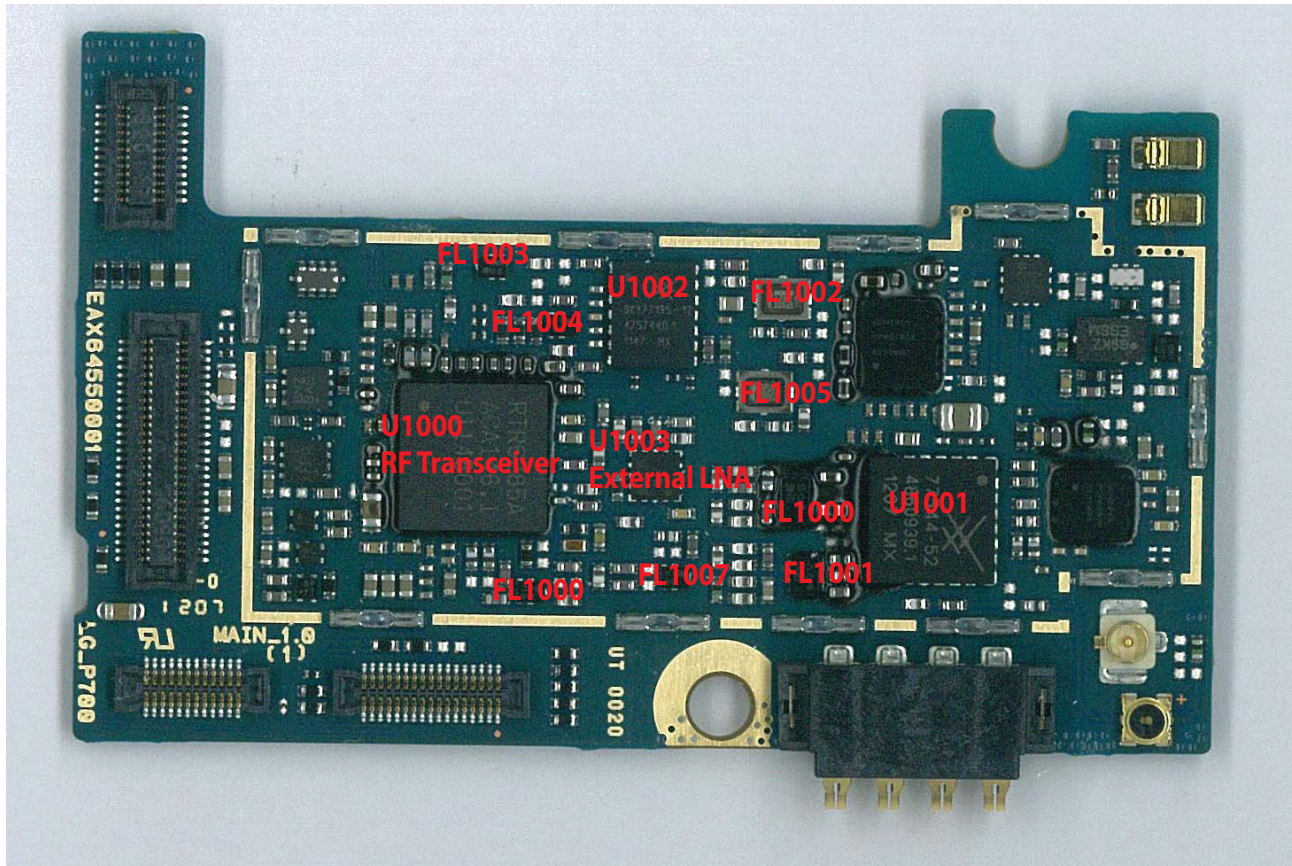
| No | FAQ      | Q&A                                                                            |
|----|----------|--------------------------------------------------------------------------------|
| 21 | <b>Q</b> | Smart Share error occurs.                                                      |
|    | <b>A</b> | Wi-Fi connection is a must for the feature. Double check the Wi-Fi connection. |

| No | FAQ      | Q&A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 22 | <b>Q</b> | Battery consumption is too fast.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|    | <b>A</b> | <p>* Checklist for battery use</p> <ol style="list-style-type: none"> <li>1) Where few antenna bars are displayed(shadow zones), the phone is considered to be located far from the network. To send and receive the phone's positioning information, more power is needed. Thus, batter power is consumed faster.</li> <li>2) When the screen(LCD Back Light) is turned on, battery power runs out faster. For example, when the electric current of the LCD Back Light is 100mA/h, a 1500-mA battery can last for 15 hours with the LCD being turned on. The longer the screen timeout is set, the faster the battery runs out. So, shorter duration of screen timeout is advisable.</li> <li>3) Even when ending an app by pressing the Home key, the app keeps running in the background, consuming battery power. You are advised to end apps using the Clear/Back key.</li> <li>4) Rooting leads to a Super User Authority in Android system domain, which may cause data modification over the battery control domain, consuming the battery power faster. .</li> <li>5) Apps subject to regular data updates, e.g. Dodol Phone, NateOn, Kakao Talk and Stock/ Weather Widgets may consume the battery power faster, if the update cycle is short.</li> <li>6) On Android phones, cancelling real-time synchronization will save the battery power. Unless you need real-time mail checks or contact synchronization, you are advised to undo the Auto Sync item in the Setup Menu. Then, you can use the synchronization only when you want it, and thus extend the battery power use.</li> <li>7) To install multiple apps at one time, you may as well reboot the system. Many widget apps on the wallpaper may accelerate battery power consumption.</li> <li>8) Battery lasts less on live screen background than on ordinary background screen.</li> <li>9) When Wi-Fi is turned on, the smartphone automatically seeks any Wi-Fi routers or zones around, which consumes the battery power. Turn on Wi-Fi only when you are in any Wi-Fi-available zones and turn it off when it is not necessary. It would be better to cancel the Internet phone 070, which browses Wi-Fi constantly.</li> <li>10) It is advisable to turn off Bluetooth when it is not in use. Once it is turned on, it looks for devices preparing for automatic operation, which may consume the battery power faster.</li> <li>11) Power Control widget will help you manage battery power consumption effectively. You can set or block screen brightness and block Bluetooth in the Main Setup Menu. Android smartphones are basically fitted with the 'Power Control' widget, which guarantees viewing at a glance and easier control over each power-consuming item based on the status of use.</li> <li>12) You can lessen the battery power consumption by setting up battery-saving display modes with 25% of screen brightness, minimizing screen timeout and unsetting animation and illuminance sensor.</li> </ol> |

| No | FAQ      | Q&A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 23 | <b>Q</b> | How is the distribution schedule of OS or SW new version known?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|    | <b>A</b> | Refer to the announcement under the Customer Support on <a href="http://www.lgmobile.co.kr">www.lgmobile.co.kr</a> .                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 24 | <b>Q</b> | How do you update the SW?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|    | <b>A</b> | <ol style="list-style-type: none"> <li>1. Press the Menu and select the Software Update button</li> <li>2. Select the item you want</li> </ol> <ul style="list-style-type: none"> <li>- Update Check: Check new software updates and update software items.</li> <li>- Last Update Date: View the latest date of software updates.</li> <li>- Update Auto Check: Set/unset the automatic update feature. Once set, it automatically checks on a regular basis any new software updates.</li> <li>- Next Update Schedule: Tell the time for automatic update checks.</li> </ul> |
| 25 | <b>Q</b> | Until when is it guaranteed after purchase? What is the warranty limit?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|    | <b>A</b> | <p>"The warranty period of LG home appliances except seasonal products is one year. 1-year warranty is applied to mobile phones as well. However, extra fees may be charged for accessories, consumables and any failure due to consumer's negligence. The same warranty is applied in general to parts.</p>                                                                                                                                                                                                                                                                   |
| 26 | <b>Q</b> | What kinds of phone accessories are there?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|    | <b>A</b> | TA, data cable, ear mic, manual                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 27 | <b>Q</b> | Please ask and answer 3 expected questions regarding the new product and new features.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|    | <b>A</b> | ICS OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

## 4. TROUBLE SHOOTING

### 4.1 RF Component

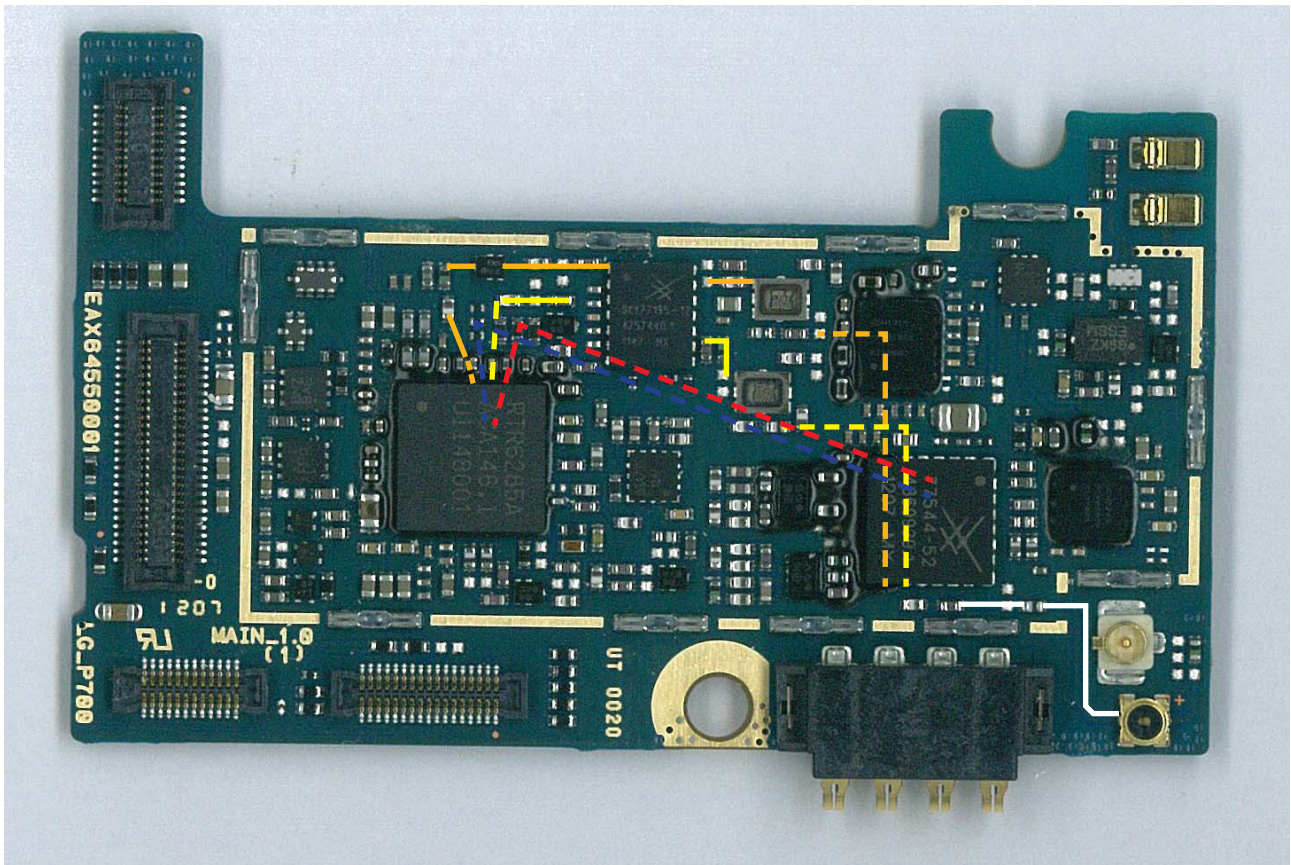


RF component (WCDMA / GSM)

| Reference | Description             | Reference | Description         |
|-----------|-------------------------|-----------|---------------------|
| U1000     | TRT6285A(Transceiver)   | FL1002    | W900 Duplexer       |
| U1001     | FEM + GSM PAM Module    | FL1003    | W900 RX SAW Filter  |
| U1002     | WCDMA Dual (I,VIII) PAM | FL1004    | W2100 RX SAW Filter |
| U1003     | WCDMA External LNA      | FL1005    | W2100 Duplexer      |
| FL1000    | GSM L/B SAW Filter      | FL1006    | W2100 RX SAW Filter |
| FL1001    | GSM H/B SAW Filter      | FL1007    | W900 RX SAW Filter  |

### 4.2 SIGNAL PATH

#### WCDMA / GSM Tx PATH



WCDMA 2100 TX PATH

WCDMA 900 TX PATH

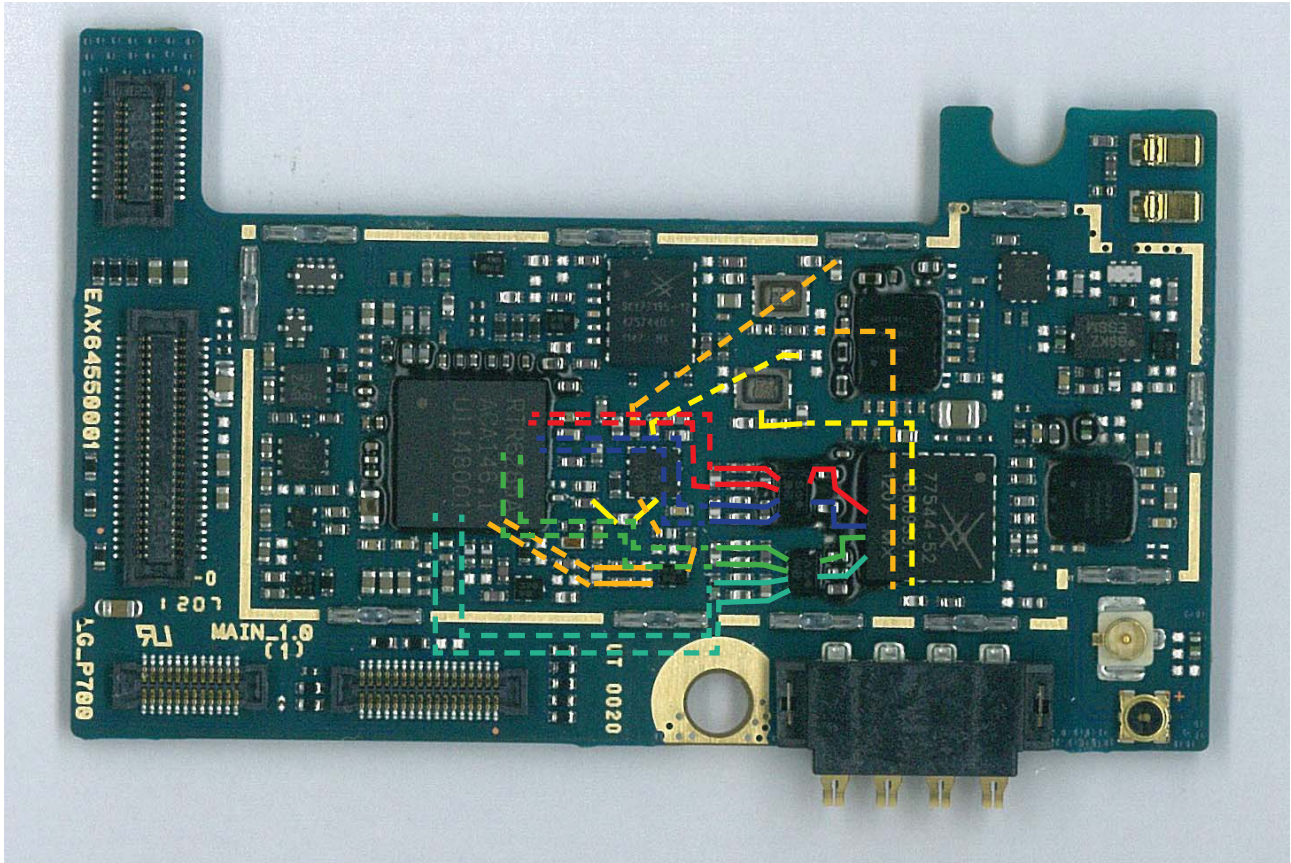
GSM Low Band Tx PATH

GSM High Band Tx PATH

Common Rx/Tx PATH

## 4. TROUBLE SHOOTING

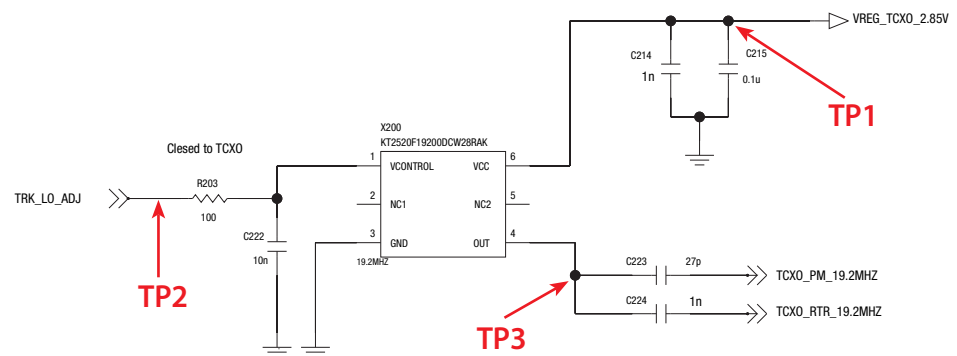
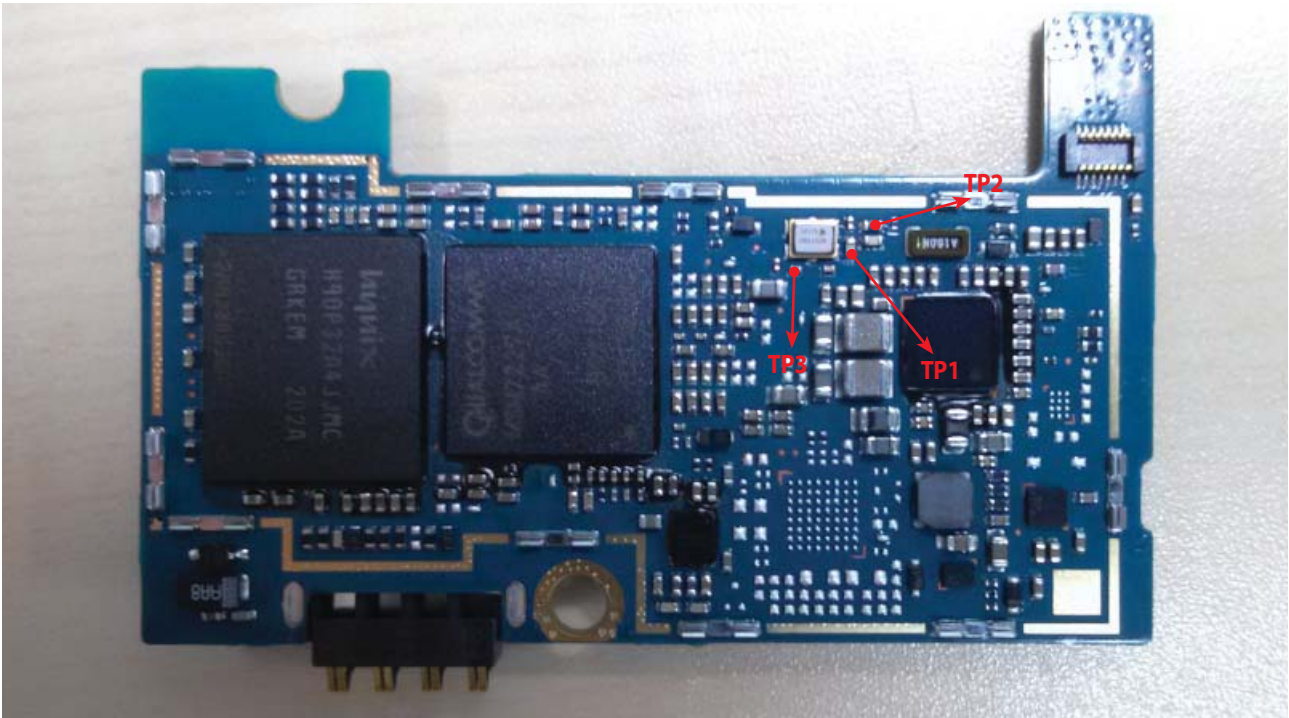
### WCDMA / GSM Rx PATH



- WCDMA 2100 RX PATH
- WCDMA 900/EGSM TX PATH
- EGSM Band RX PATH
- GSM 850 Band Rx PATH
- Common Rx/Tx PATH
- DCS Band Rx PATH
- PCS Band Rx PATH

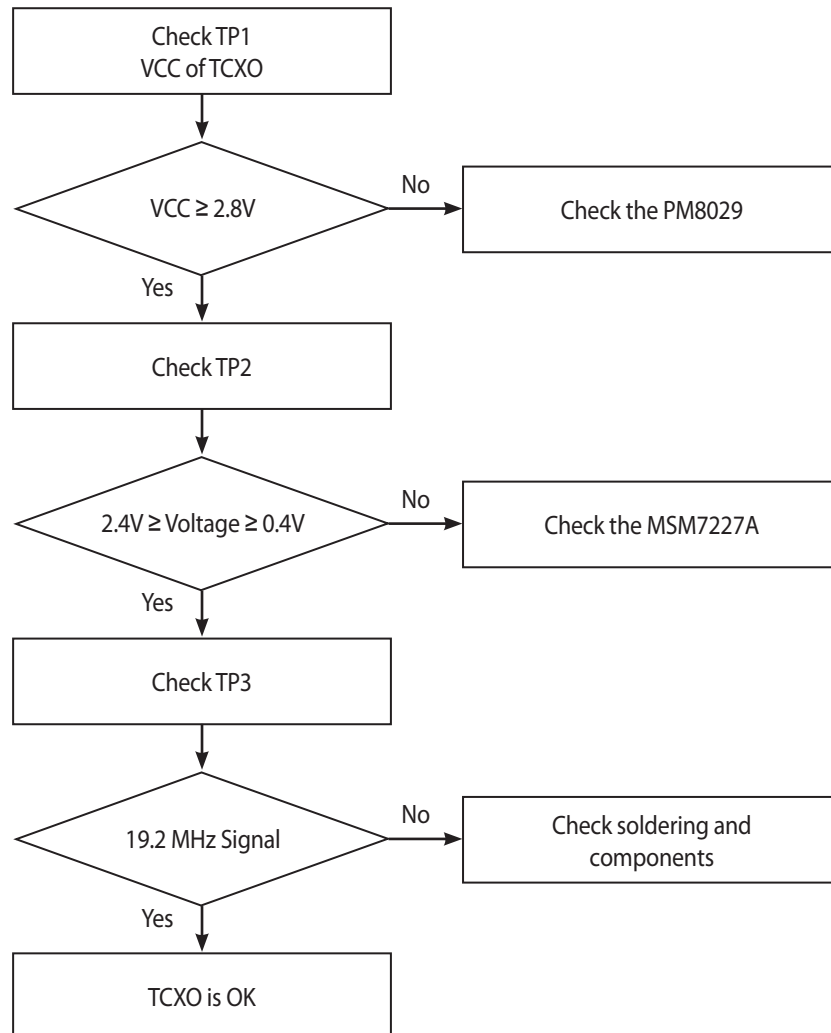
### 4.3 Checking TCXO Block

The output frequency (19.2MHz) of TCXO (X2001) is used as the reference one of RTR6285 and PM7540 internal VCO.

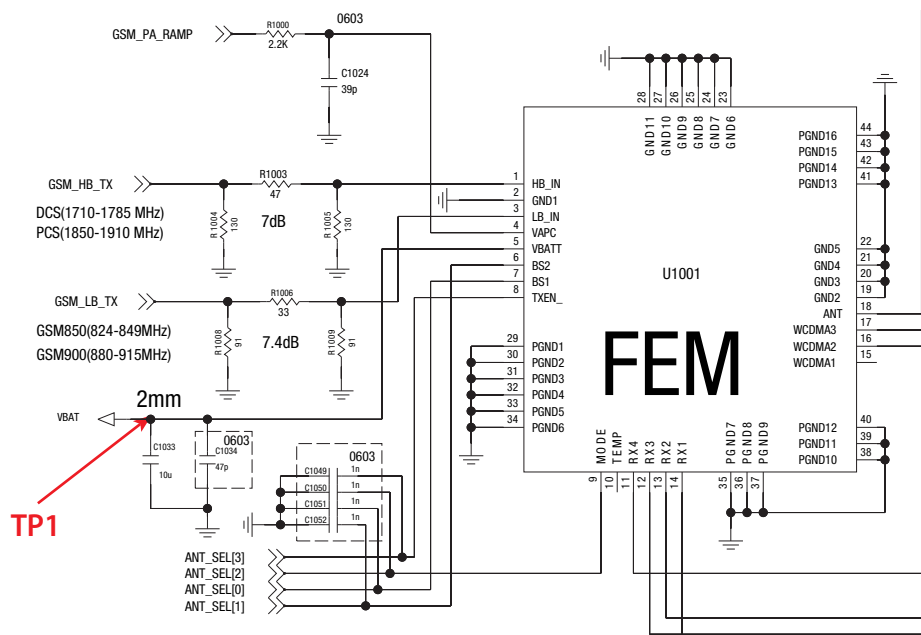
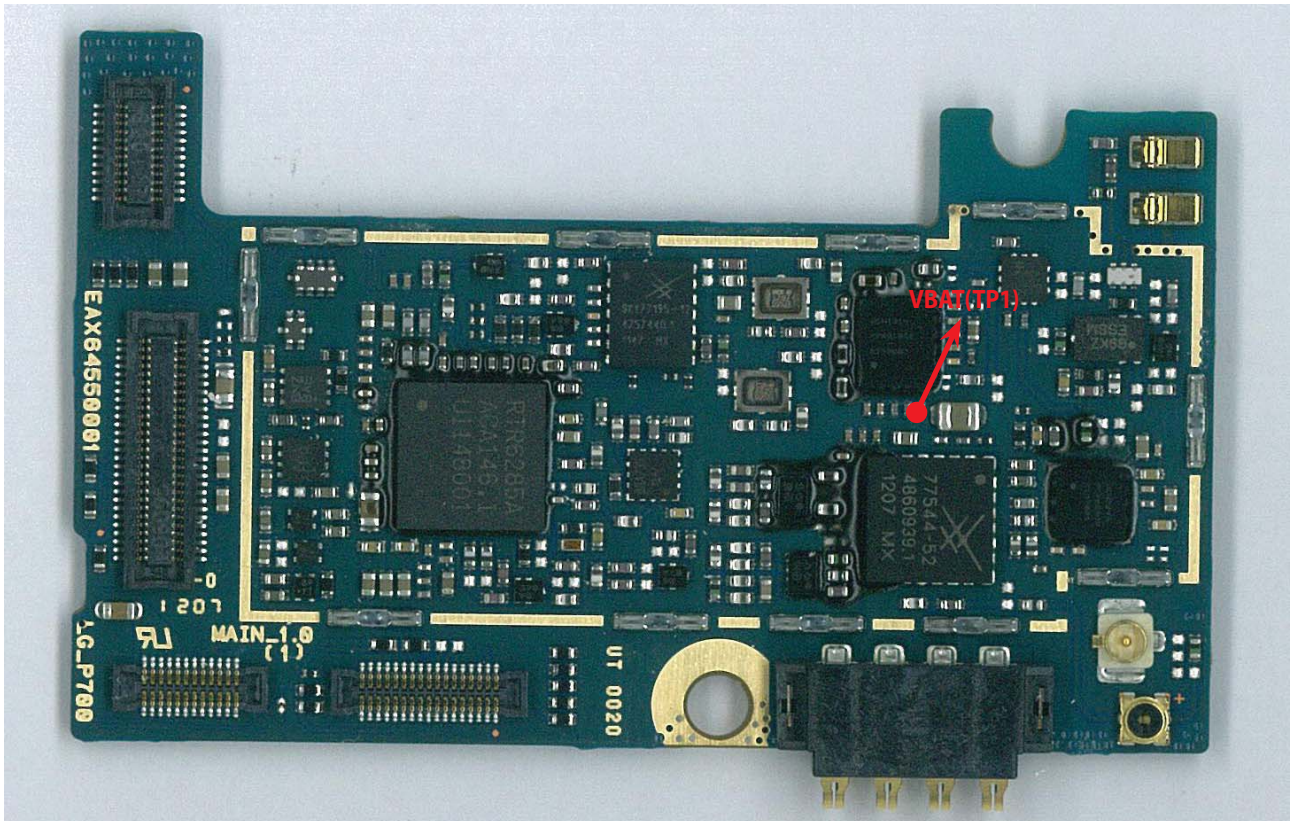


Schematic of the Crystal Part (19.2MHz)

## 4. TROUBLE SHOOTING



### 4.4 Checking GSM TX Module(GSM PAM + FEM) Block

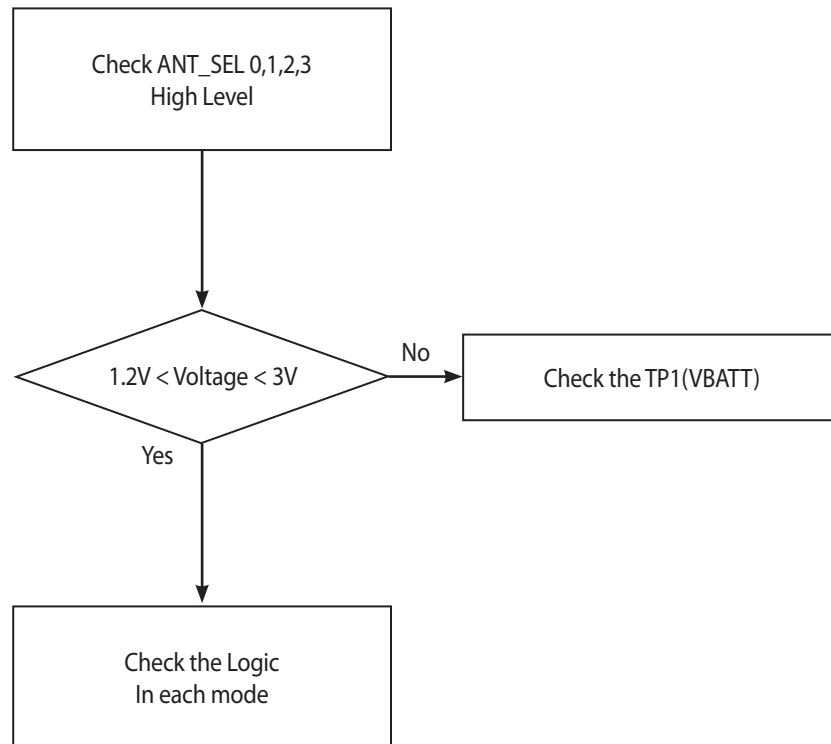


Schematic of the TX Module

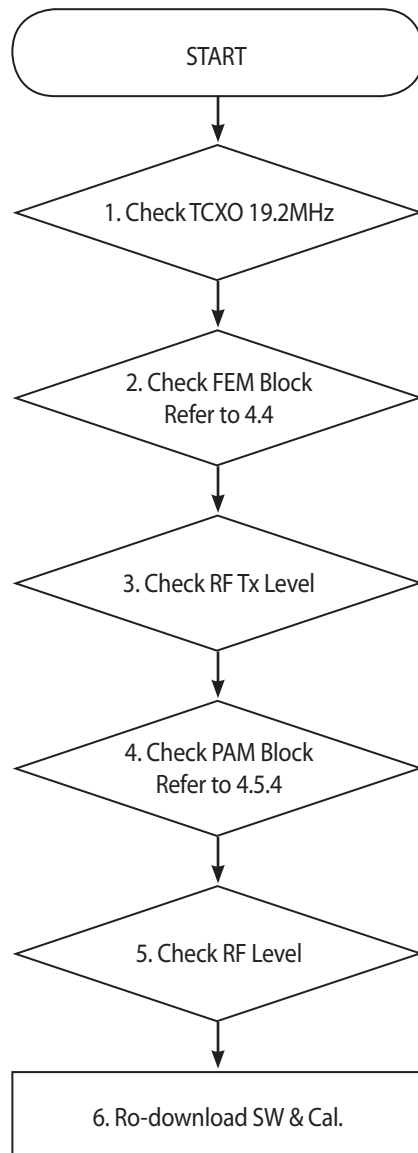
### ANTENNA SWITCH MODULE LOGIC(SKY77544)

|                    | ANT_SEL0 | ANT_SEL1 | ANT_SEL2 | ANT_SEL3 |
|--------------------|----------|----------|----------|----------|
| GSM850/GSM900 TX   | LOW      | HIGH     | LOW      | LOW      |
| DCS1800/PCS1900 TX | HIGH     | HIGH     | LOW      | LOW      |
| PCS1900 RX         | LOW      | LOW      | LOW (X)  | HIGH     |
| DCS1800 RX         | LOW      | HIGH     | LOW (X)  | HIGH     |
| GSM900 RX          | HIGH     | HIGH     | LOW (X)  | HIGH     |
| GSM850 RX          | HIGH     | LOW      | LOW (X)  | HIGH     |
| W1700              | HIGH     | LOW      | LOW      | LOW      |
| W900(W850)         | LOW      | LOW      | HIGH     | LOW      |
| W2100              | HIGH     | LOW      | HIGH     | LOW      |

### Checking Switch Block Power Source



### 4.5 Checking WCDMA Block



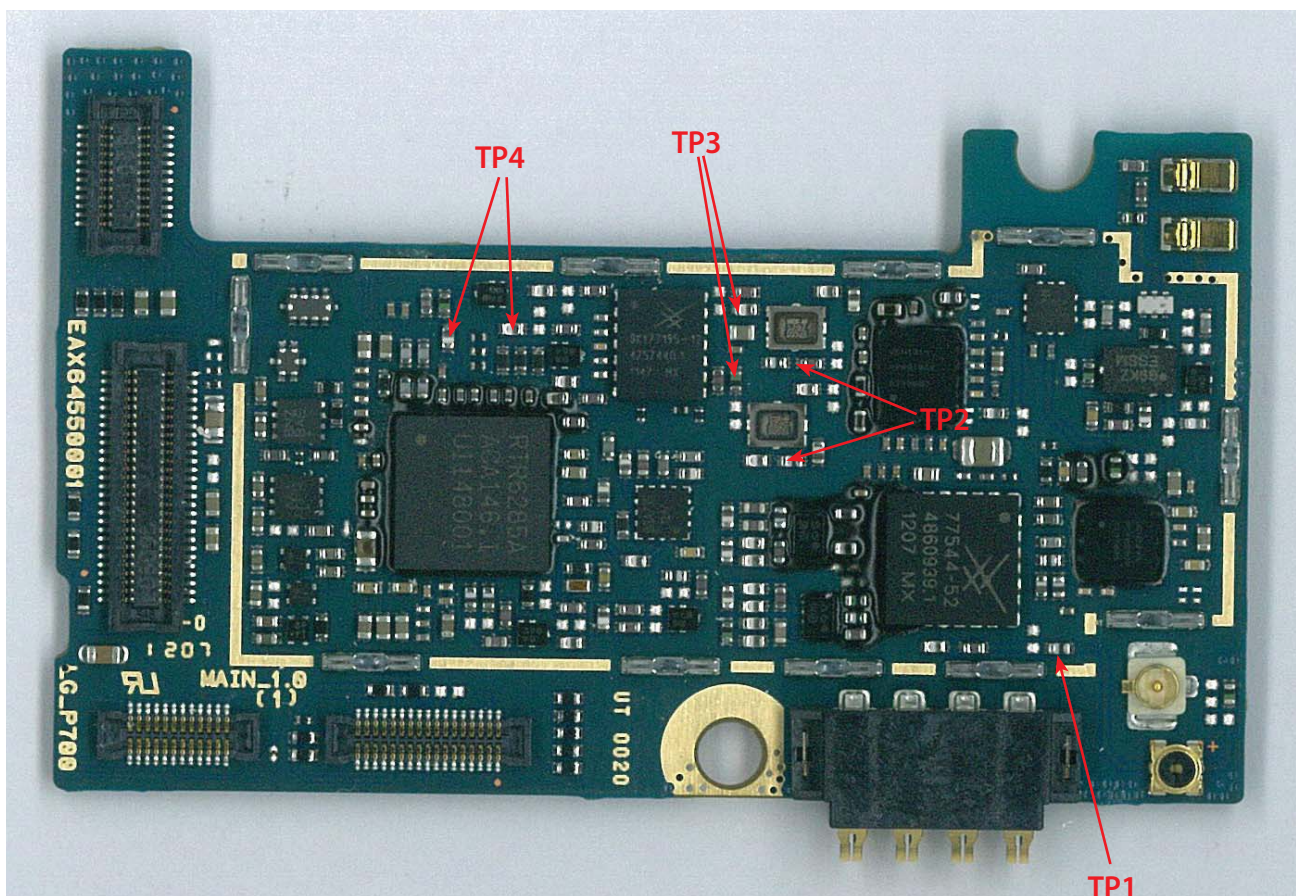
### 4.5.1 Checking TCXO Block

Refer to 4.3

### 4.5.2. Checking FEM Block

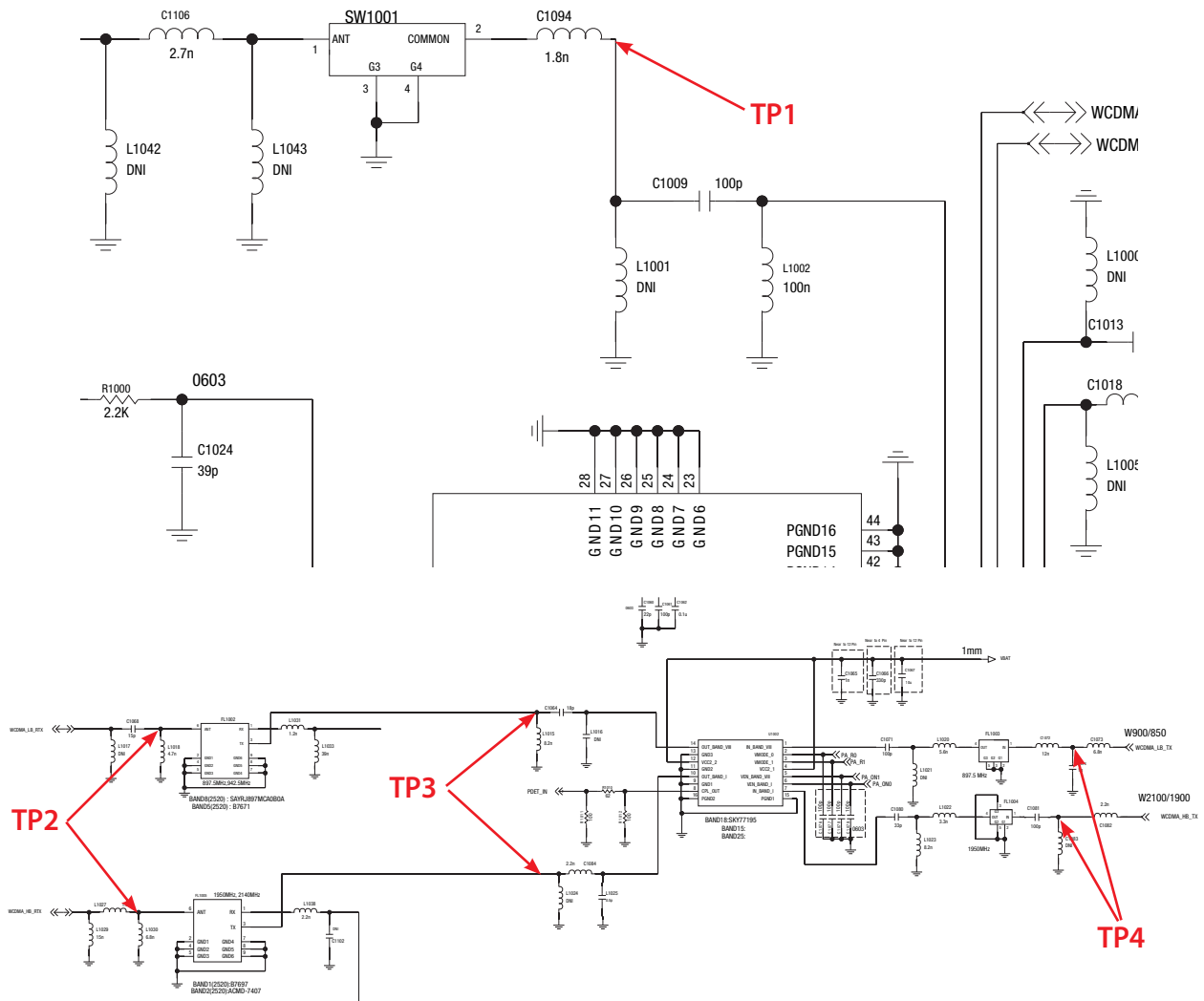
### 4.5.3. Checking RF TX Level

Refer to 4.4



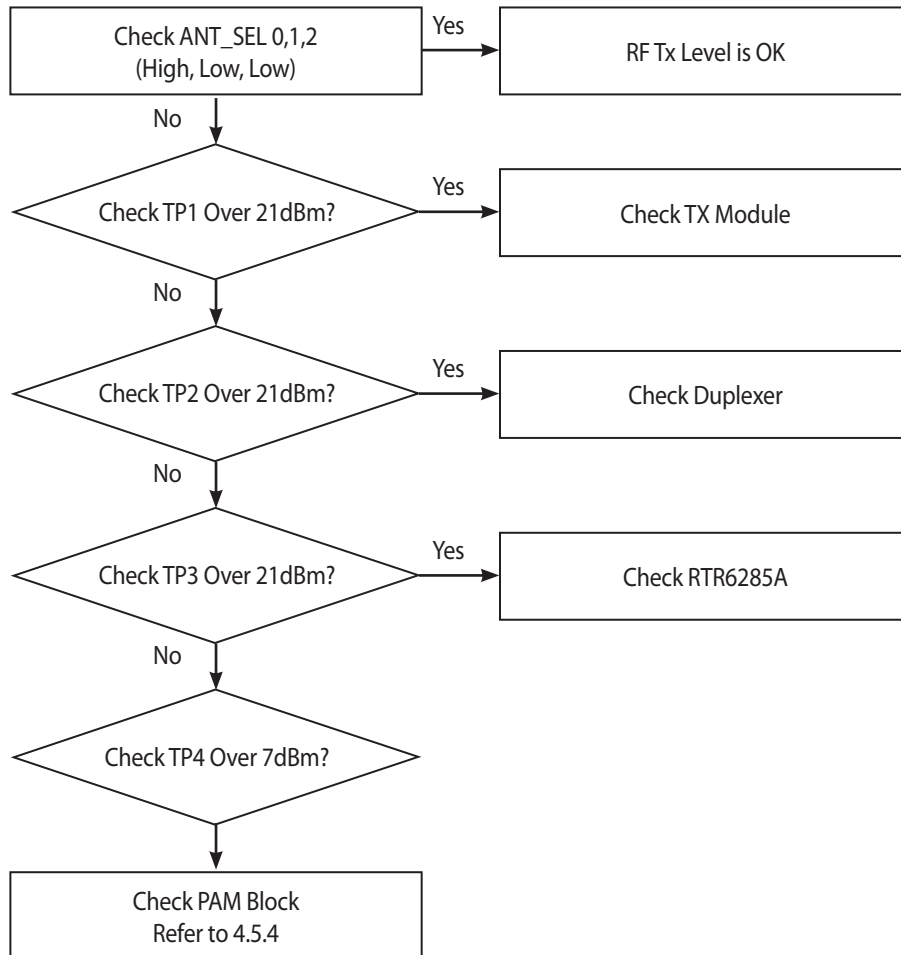
Test Point (TX Level)

## 4. TROUBLE SHOOTING



For testing, Max power output is needed.

## 4. TROUBLE SHOOTING



RTR6285 Maximum output Power = 7 dBm  
RTR6285 minimum output Power = -80 dBm  
PAM(ACPM-5281) = Maximum input Power = 10 dBm

### 4.5.4. Checking PAM Block

#### PAM control signal

PA\_ON0 (C1079), PA\_ON1(C1078) : PAM Enable

PA\_R0: PAM Gain Control

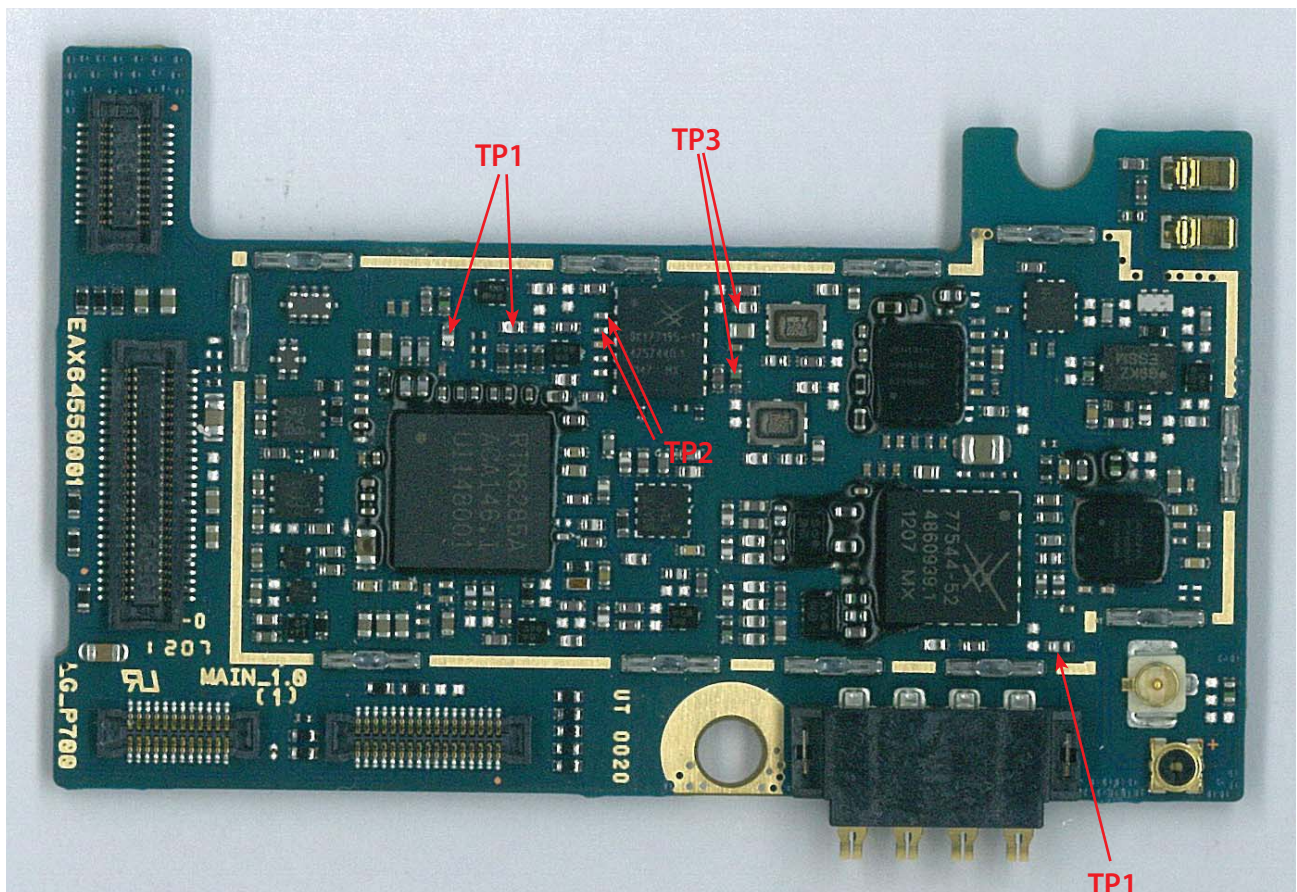
PA\_ON must be HIGH (over 2.6V)

#### PAM IN/OUT Signal

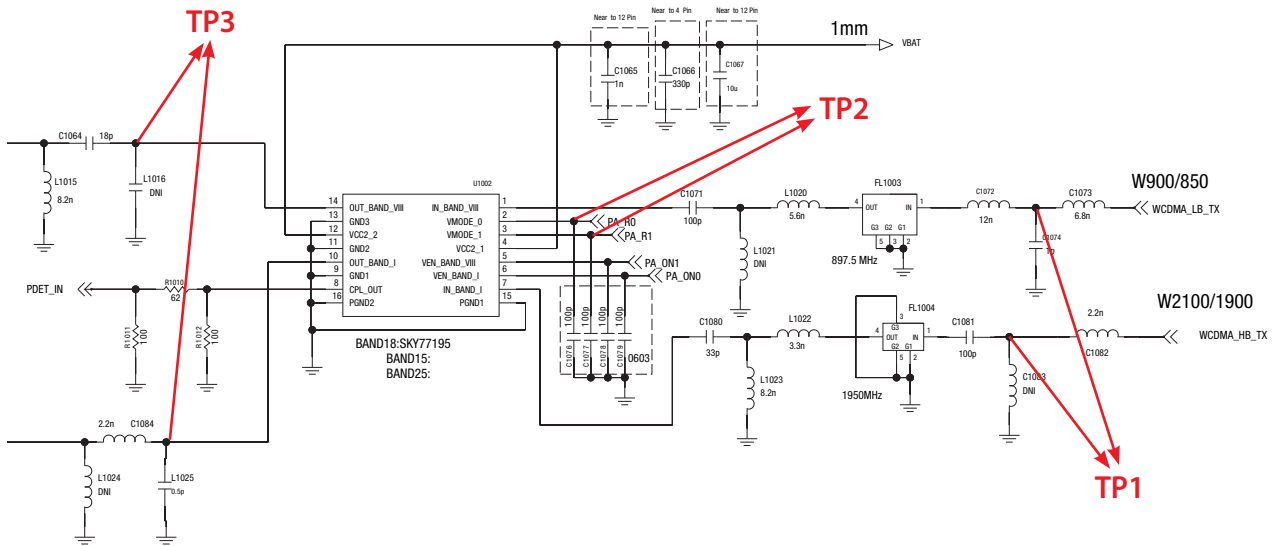
When PAM is under the operation of high power mode (PA\_R0(C1076) : Low),

PAM OUT power must be over 21 dBm

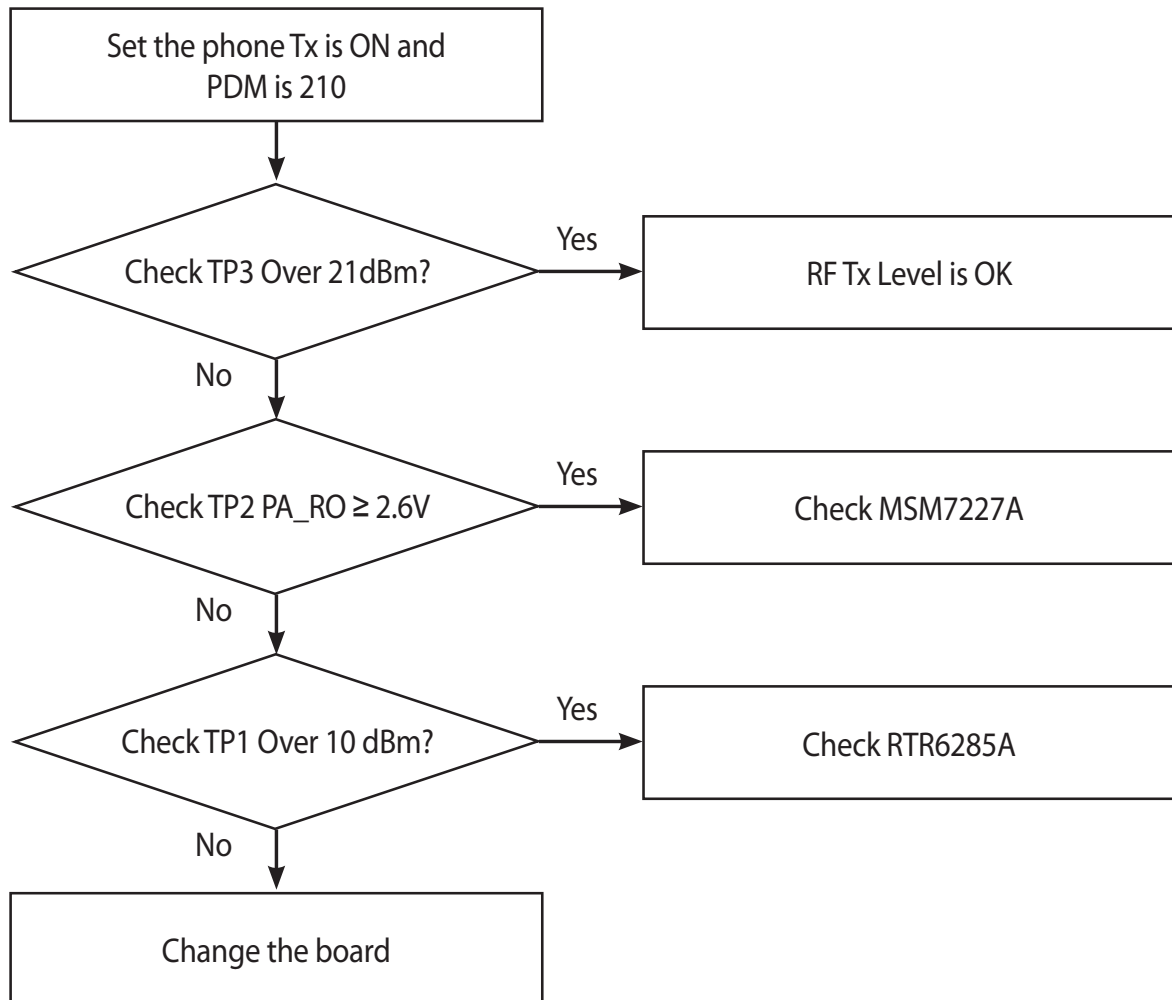
PAM IN power must be under 10 dBm



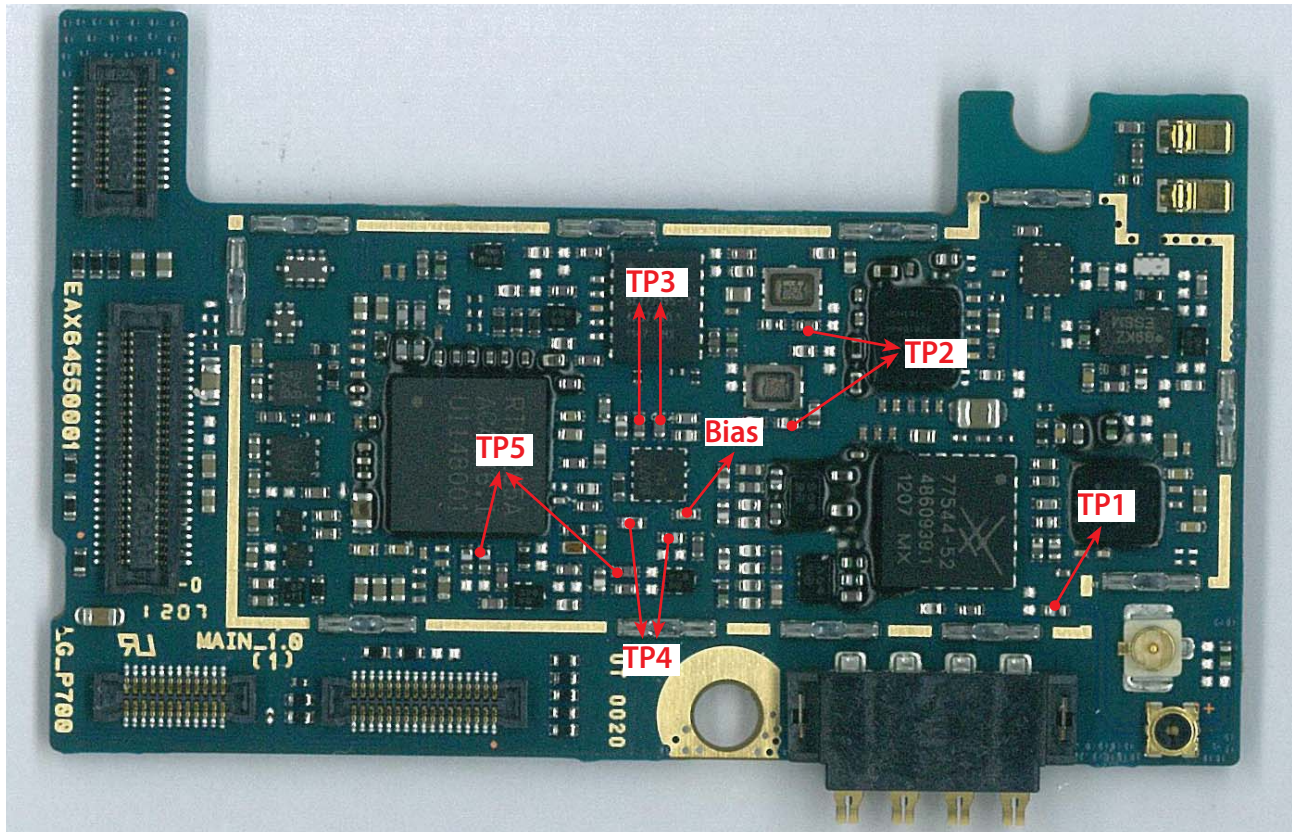
## 4. TROUBLE SHOOTING



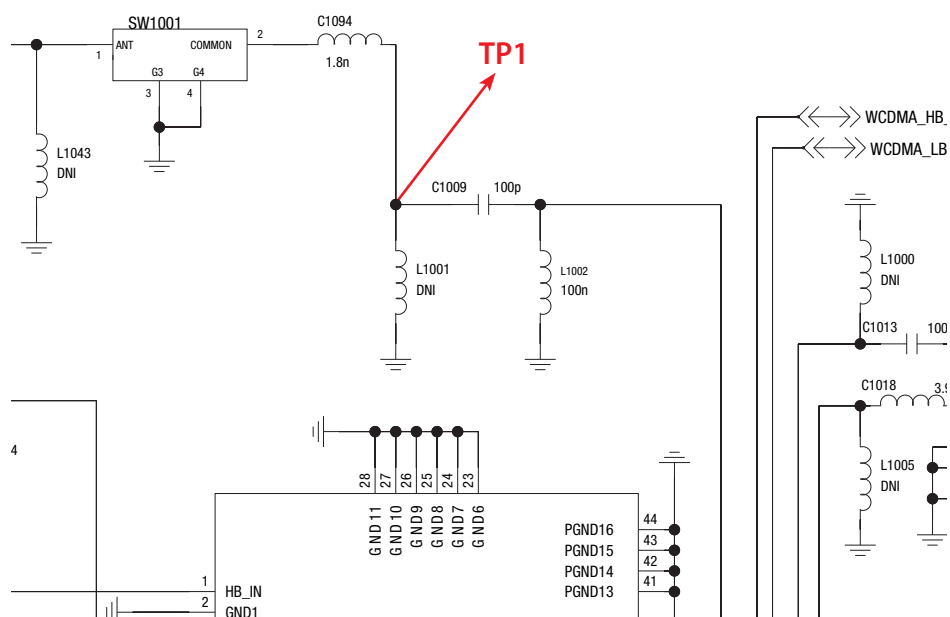
## 4. TROUBLE SHOOTING



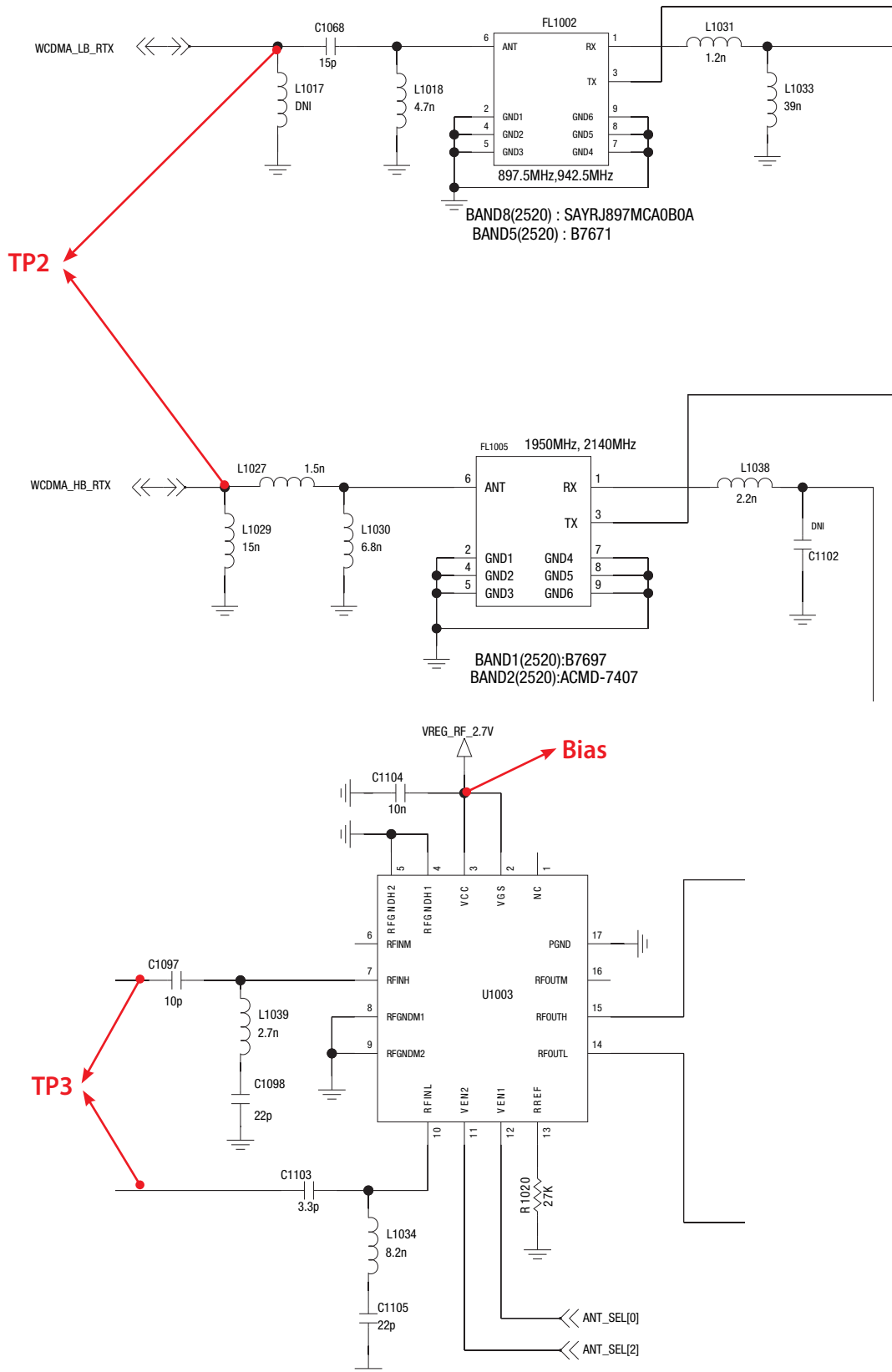
### 4.5.5. Checking RF Rx Level



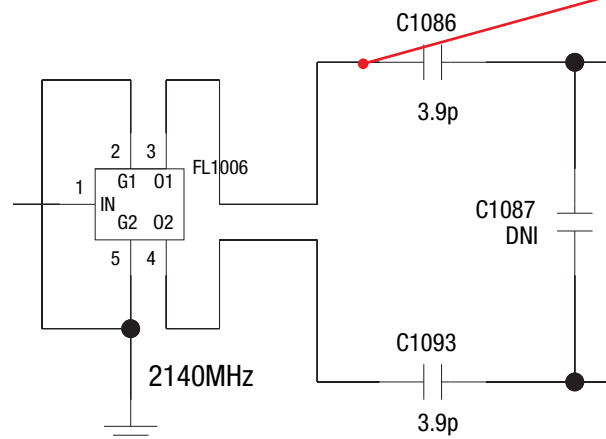
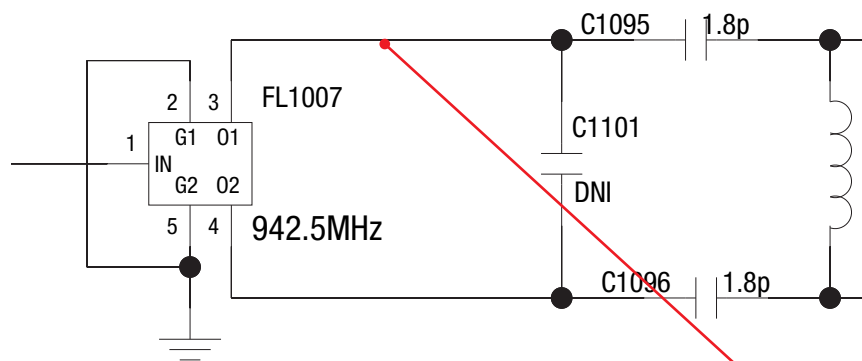
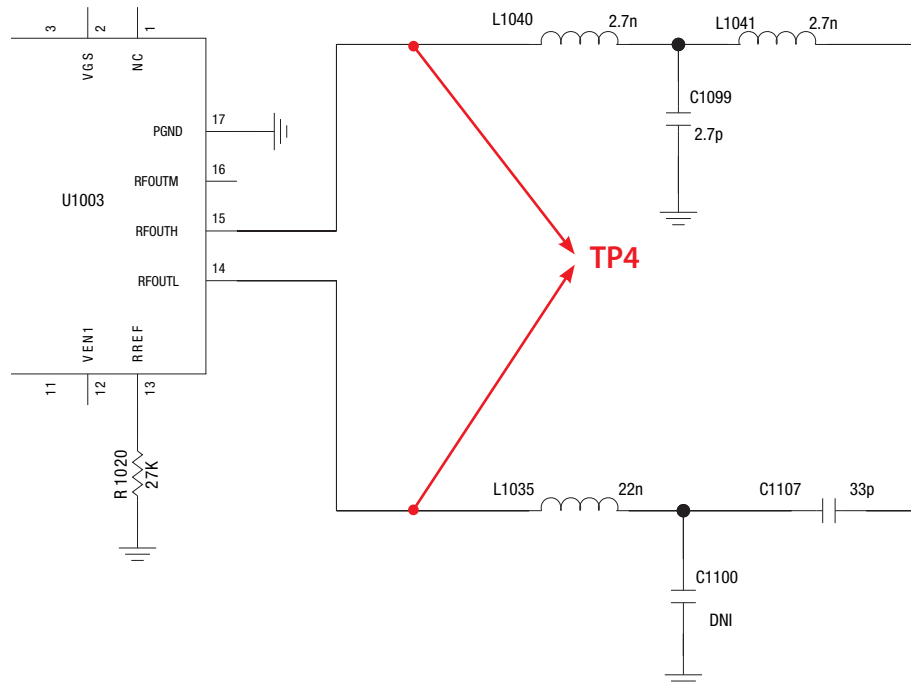
Test Point (RF Rx Level)



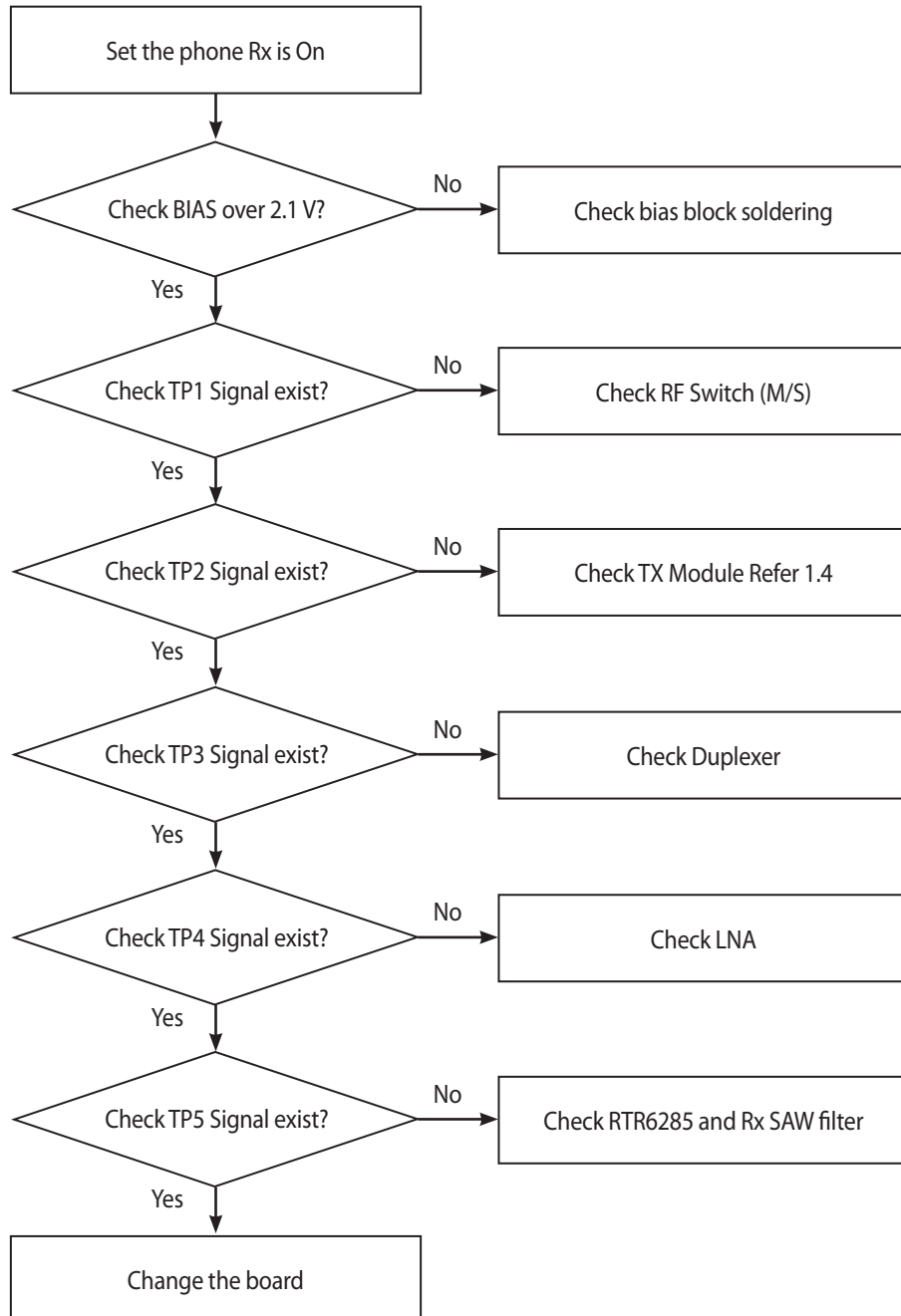
## 4. TROUBLE SHOOTING



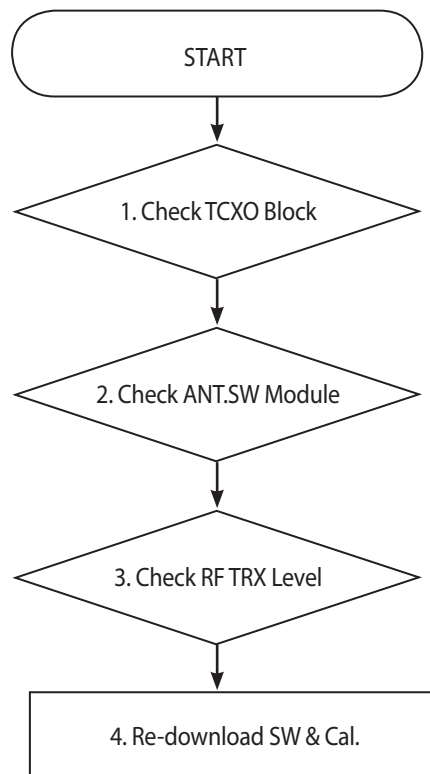
## 4. TROUBLE SHOOTING

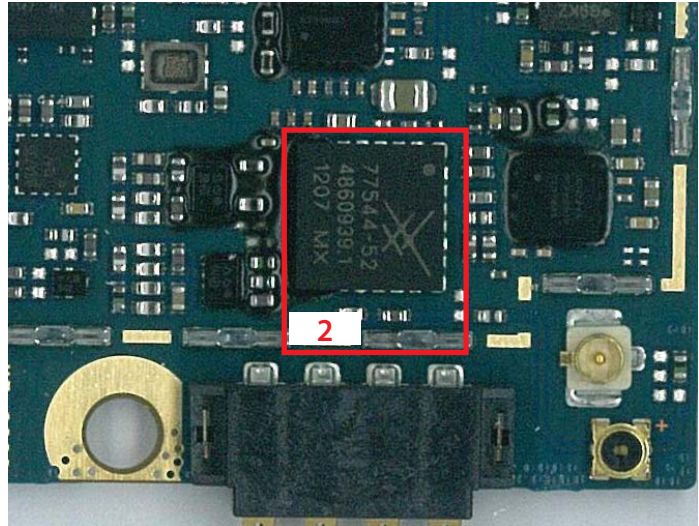
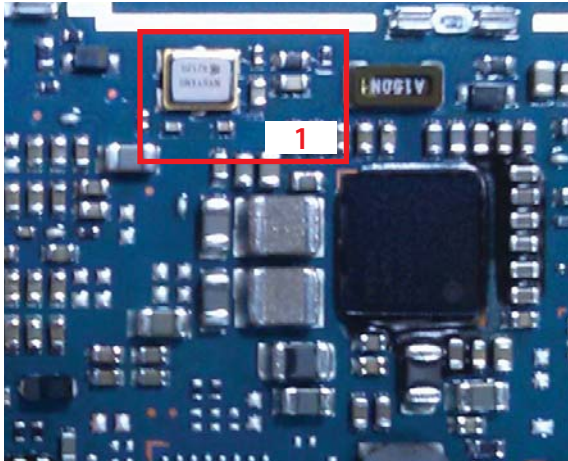


## 4. TROUBLE SHOOTING



### 4.6 Checking GSM Block





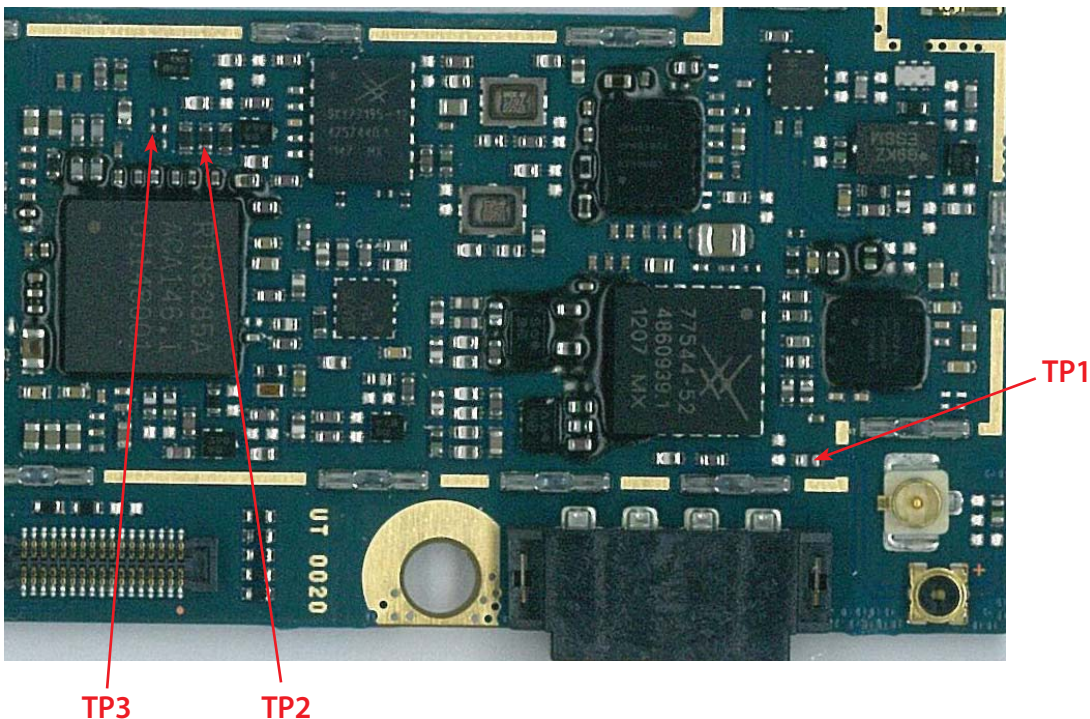
### 4.6.1 Checking TCXO Block

Refer to 4.3

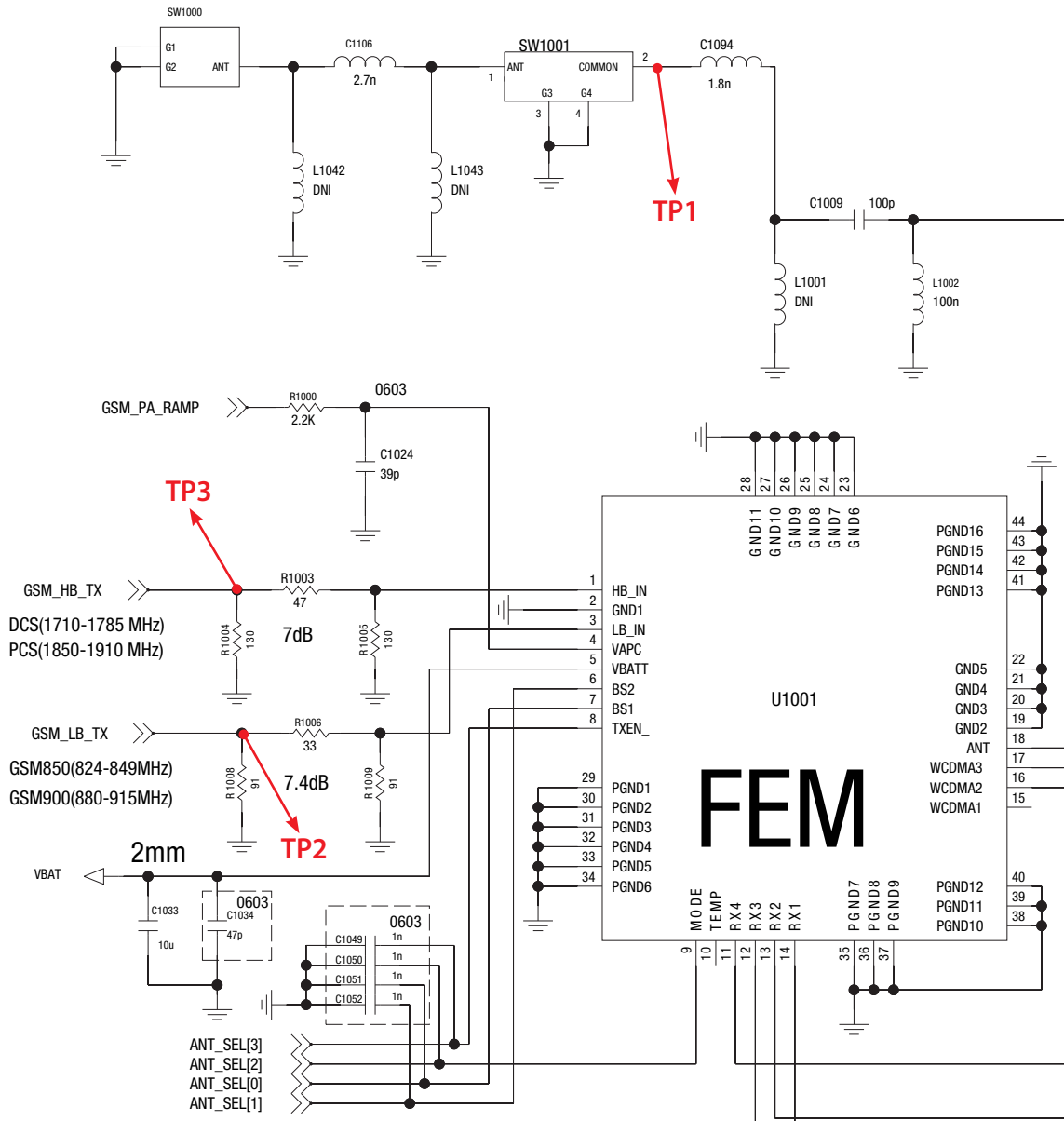
### 4.6.2 Checking FEM Block

Refer to 4.4

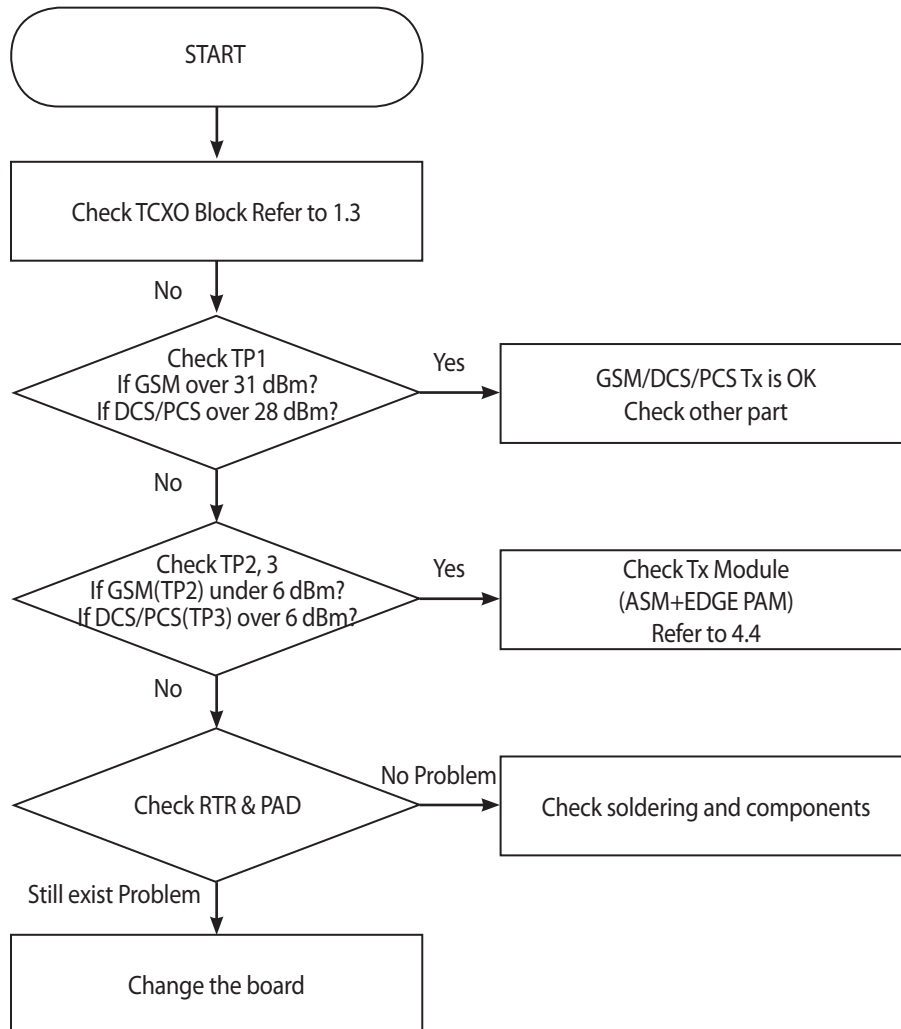
### 4.6.3 Checking RF TX level



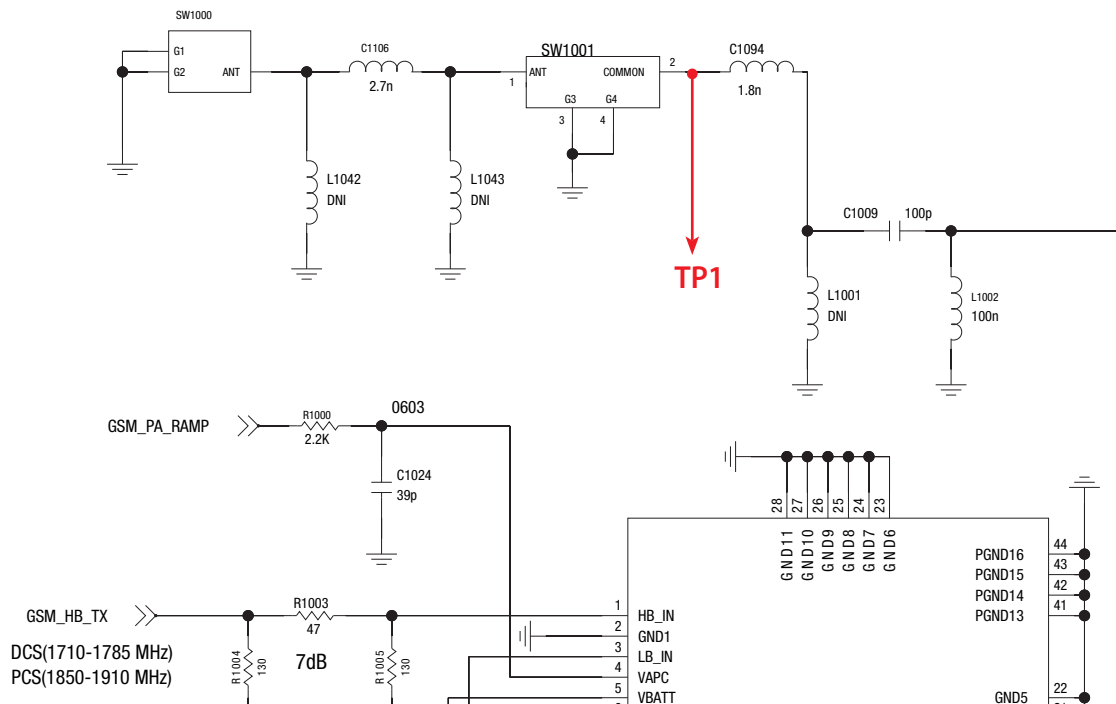
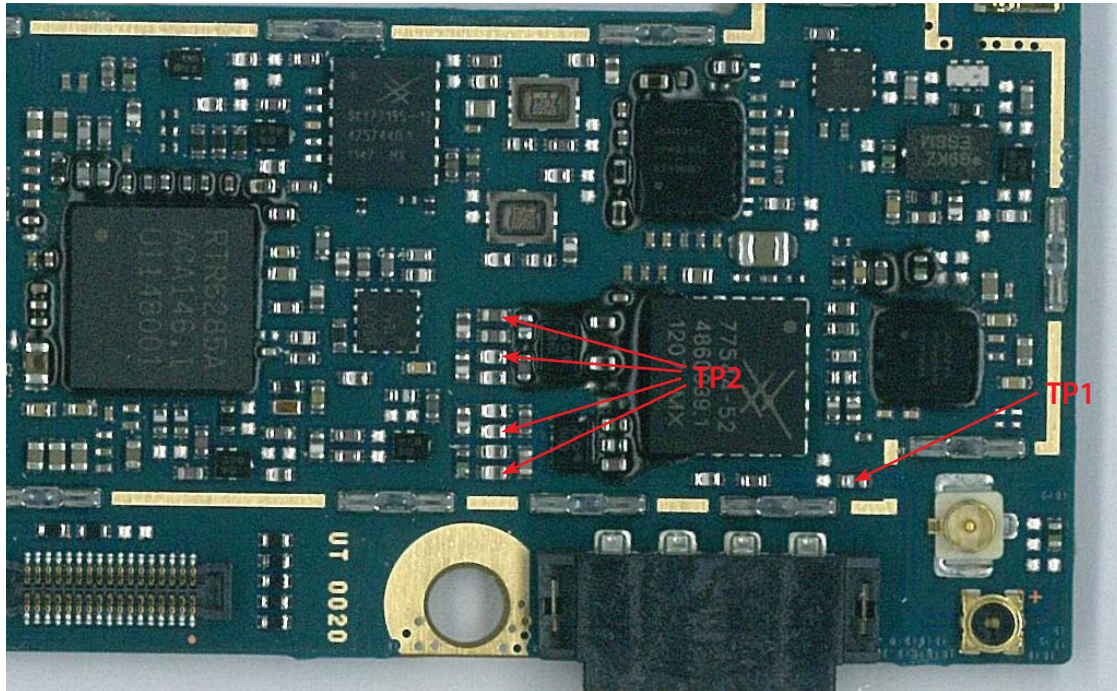
## 4. TROUBLE SHOOTING

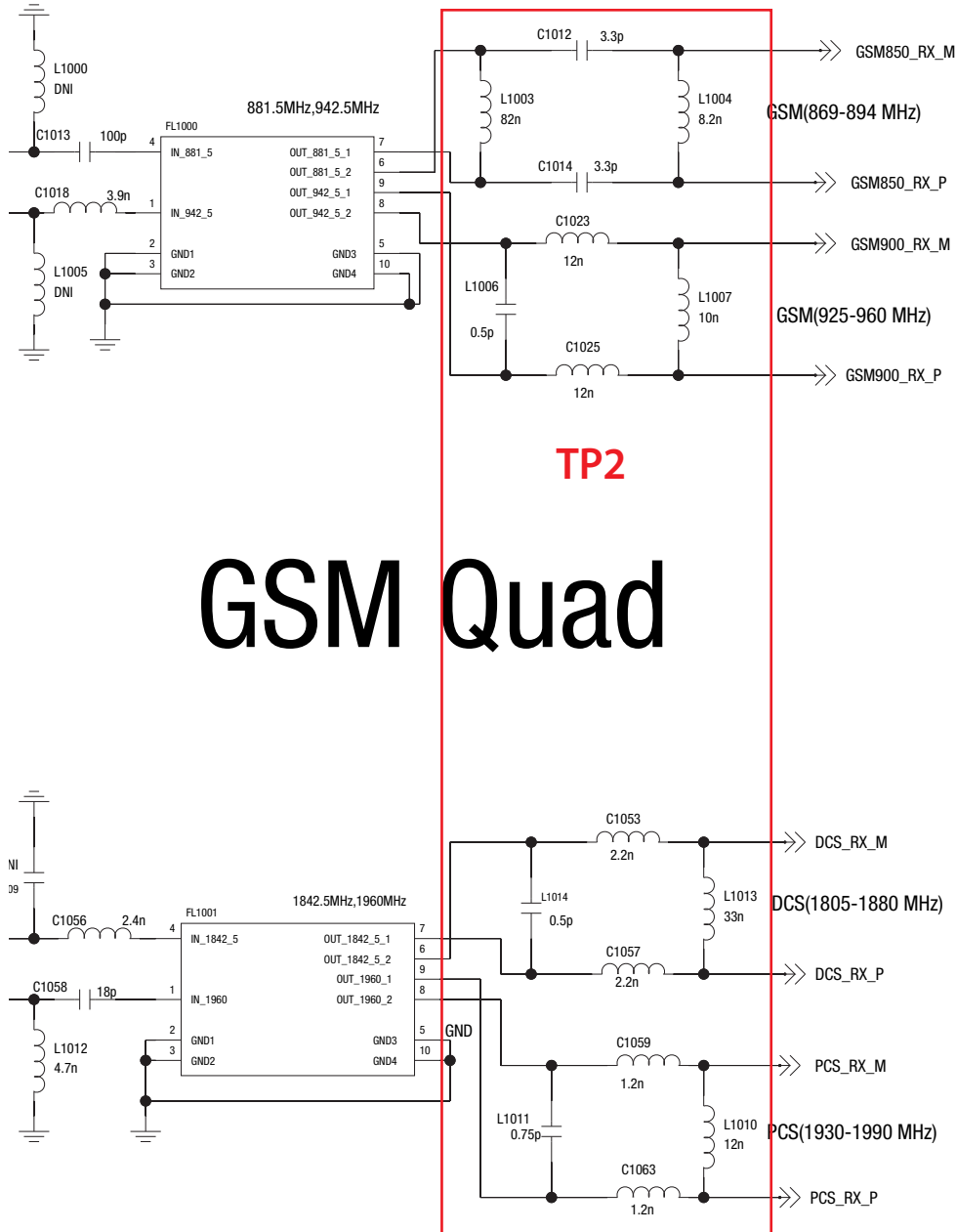


### Schematic of GSM/DCS/PCS Tx Block



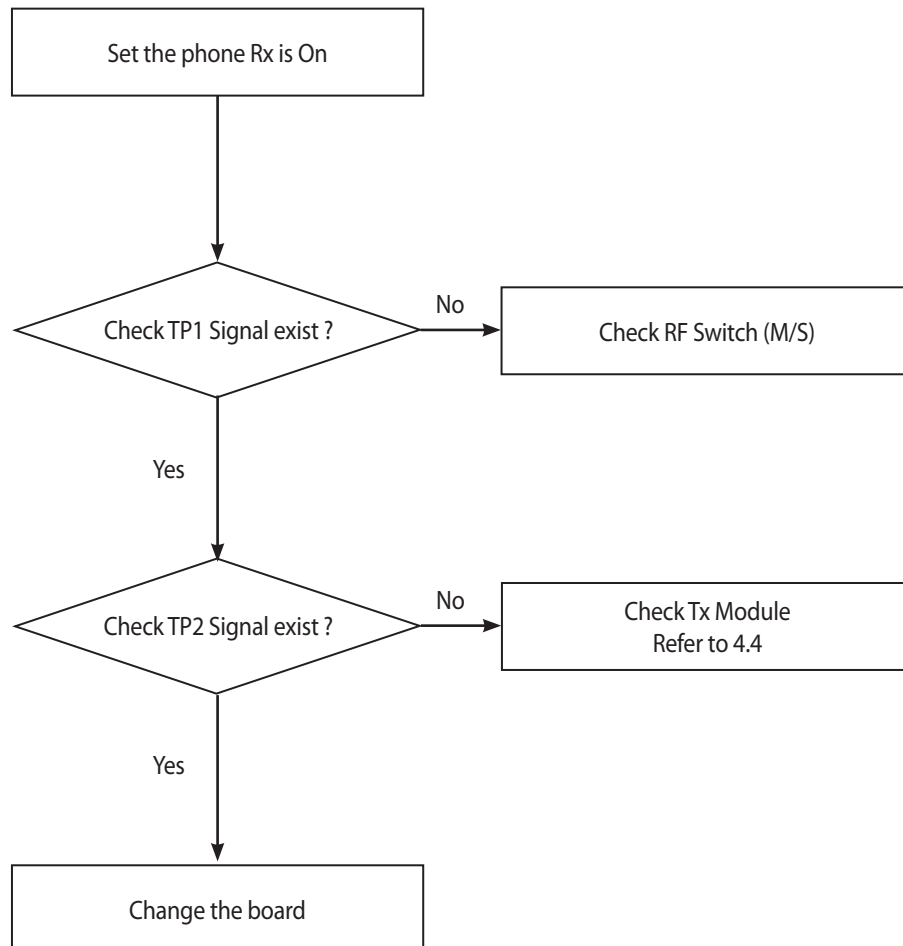
### 4.6.4 Checking RF Rx Block



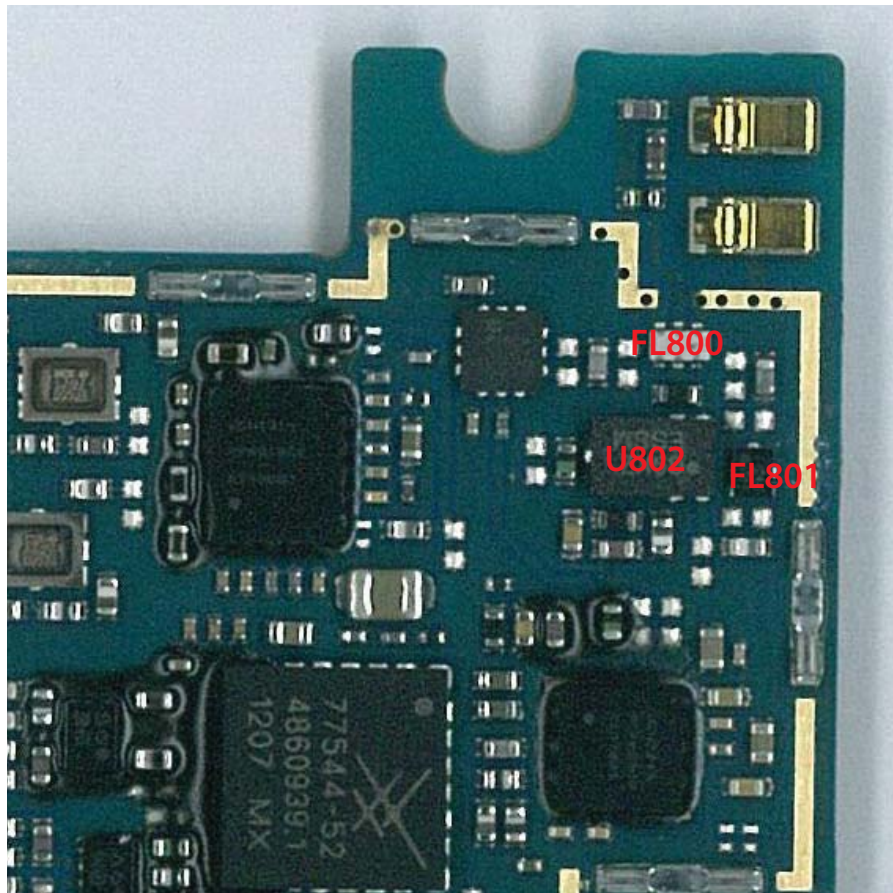


## GSM Quad

Schematic of GSM/DCS/PCS Tx Block



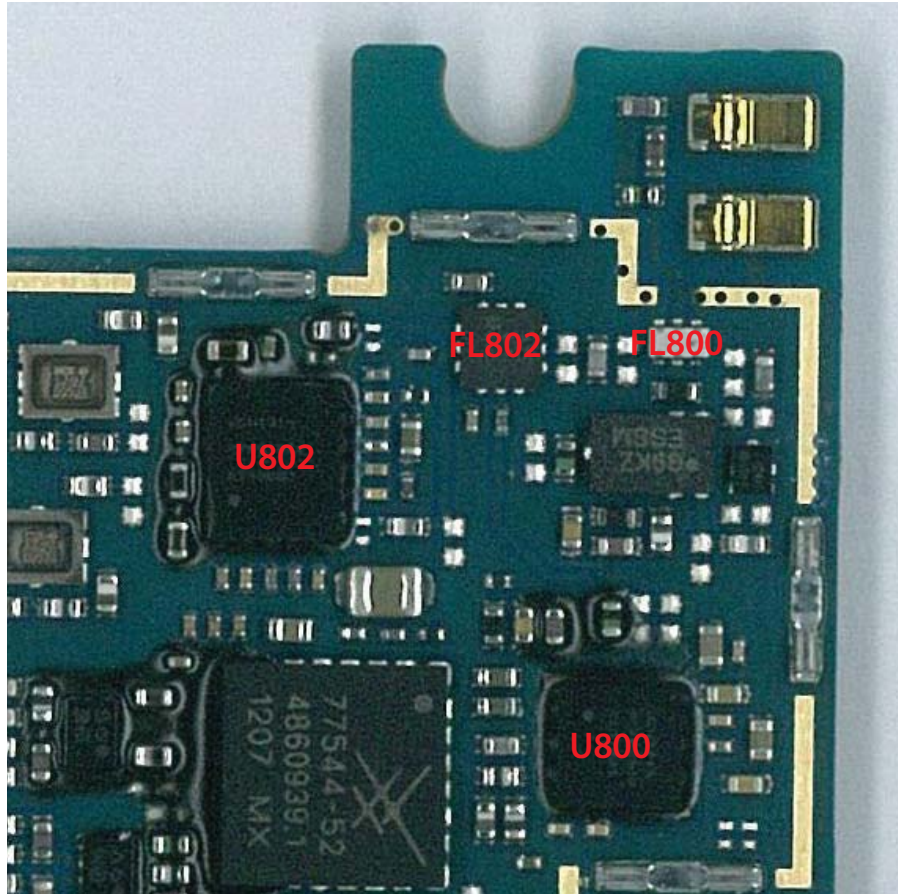
### 4.7 GPS/WIFI/BT/FMR RF Component



**RF Component(GPS)**

| Reference | Description          |
|-----------|----------------------|
| U802      | GPS LNA              |
| FL801     | GPS SAW Filter       |
| FL800     | BT/WIFI/GPS diplexer |

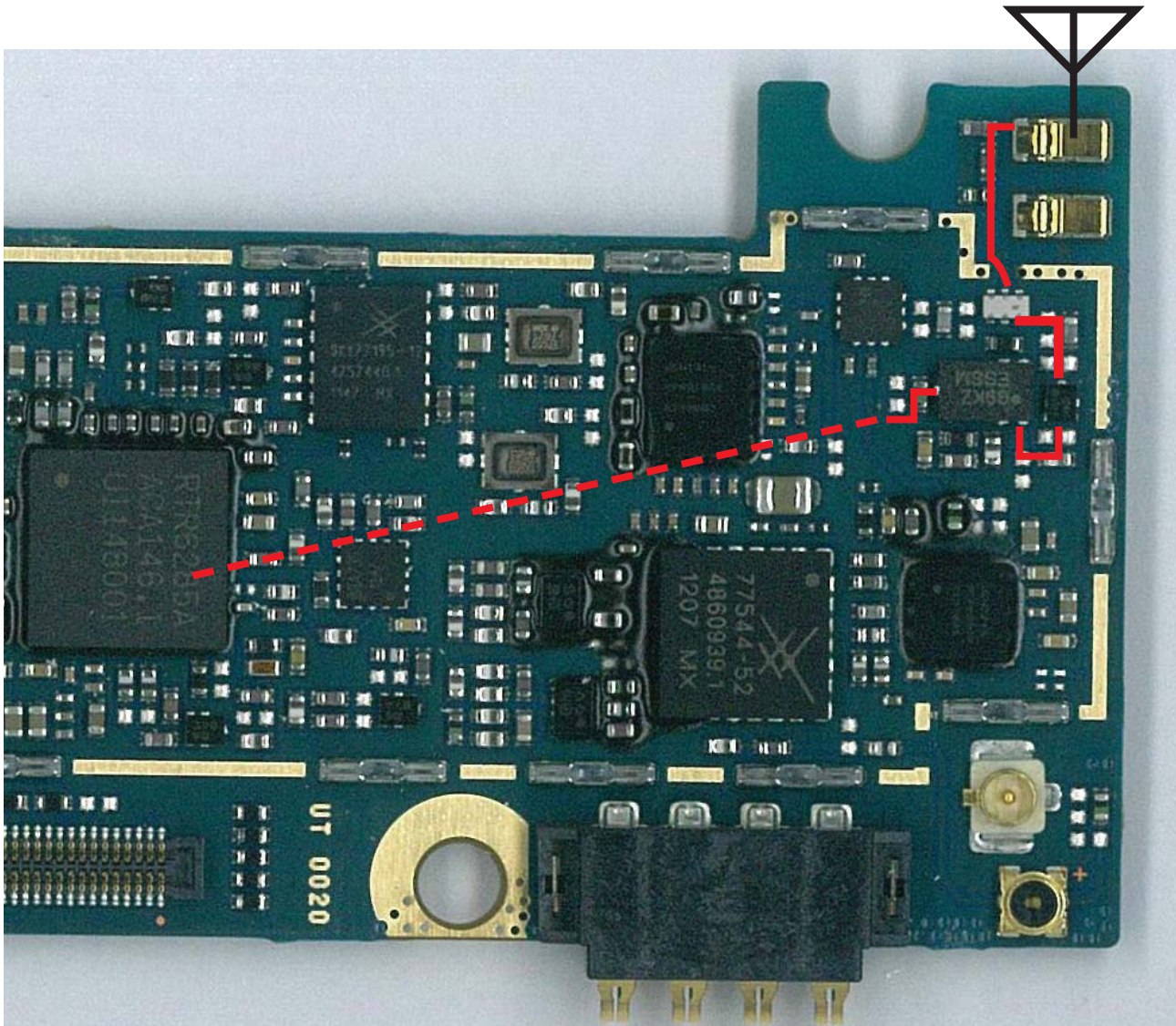
## 4. TROUBLE SHOOTING



**RF Component(BT/WiFi/FMR)**

| Reference | Description           |
|-----------|-----------------------|
| U800      | BT/FMR Chip (WCN2243) |
| U802      | WIFI Chip (WCN1314)   |
| FL800     | BT/WIFI/GPS diplexer  |
| FL802     | BT/WIFI FEM           |

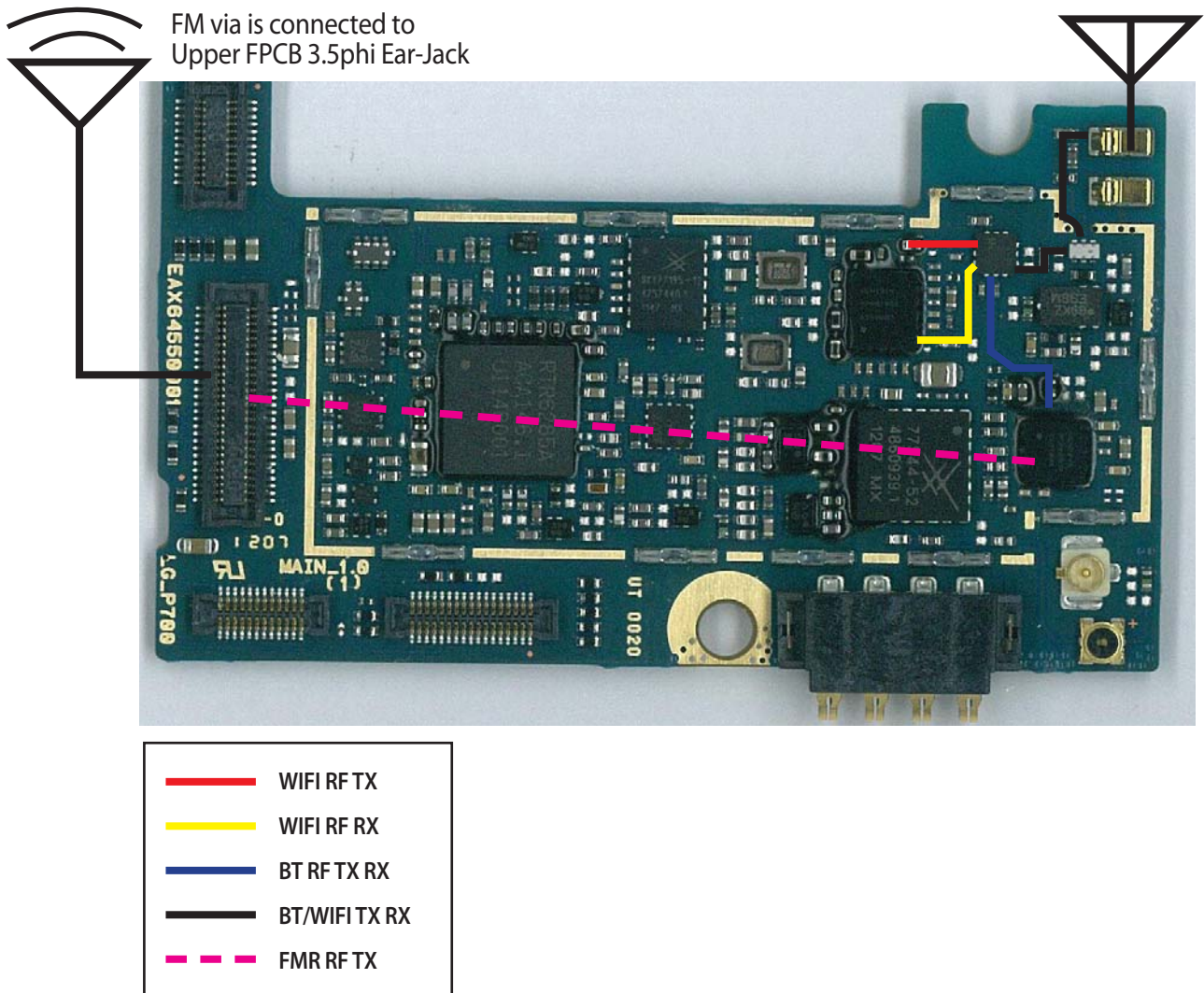
### 4.8 GPS/WIFI/BT SIGNAL PATH



GPS Signal PATH (main board bottom)

GPS Rx PATH

## 4. TROUBLE SHOOTING

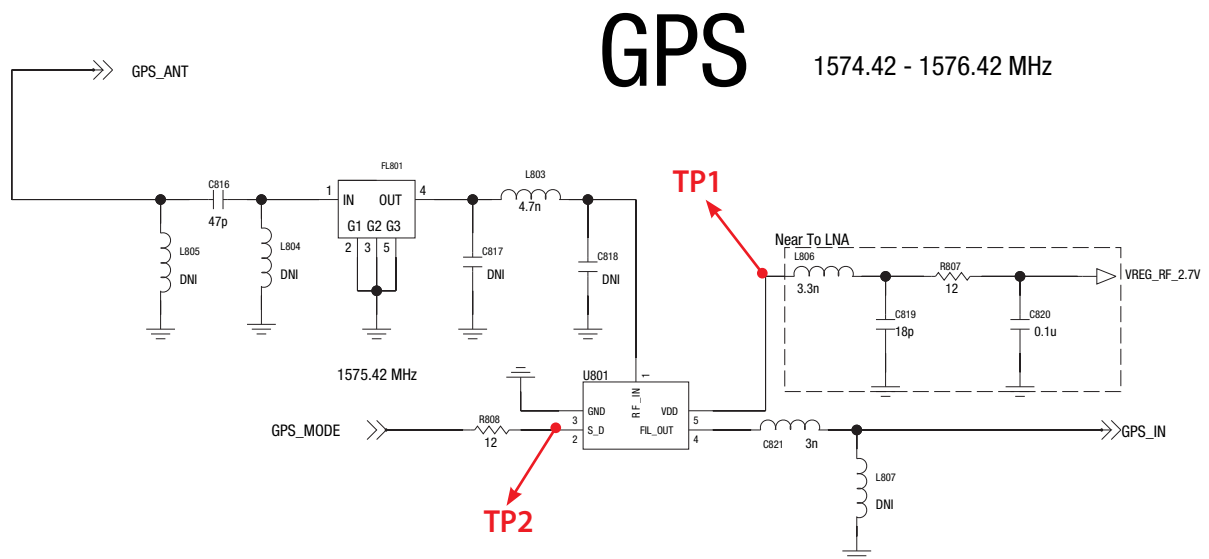
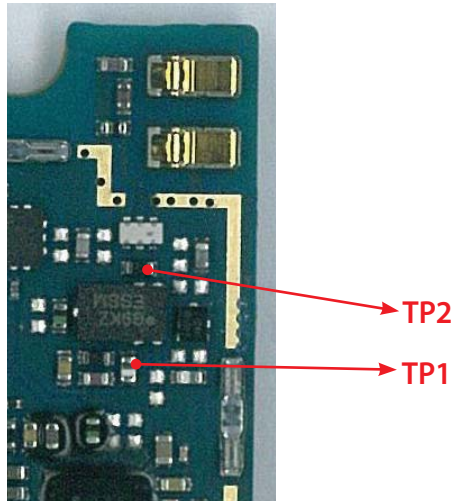


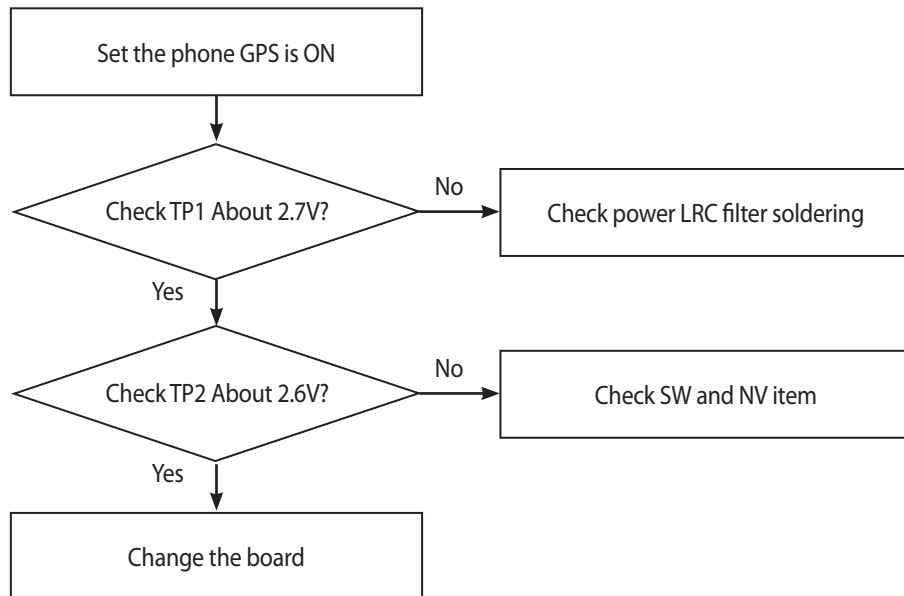
WiFi / BT / FMR Signal PATH

WiFi / BT Tx and Rx PATH

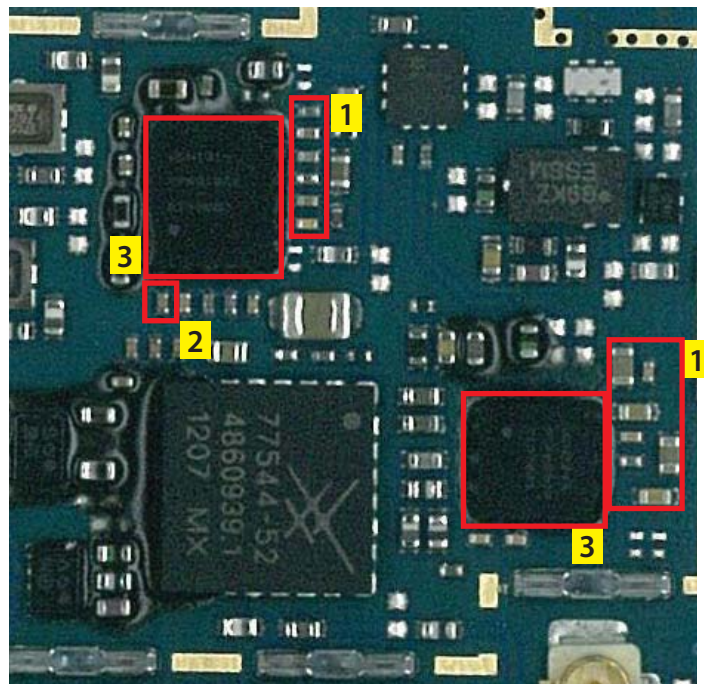
### 4.9 GPS/WIFI/BT Trouble shooting

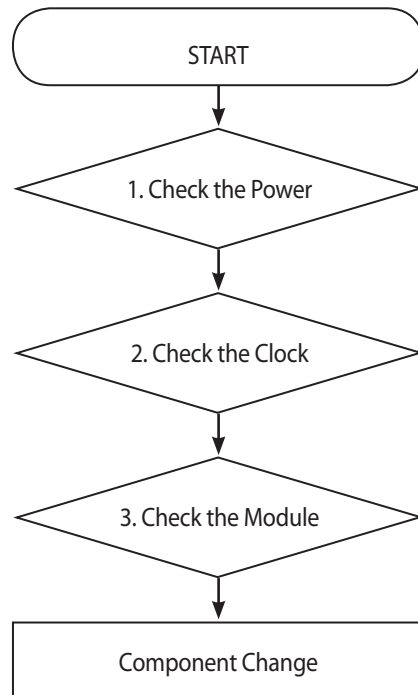
#### 4.9.1 A-GPS Block





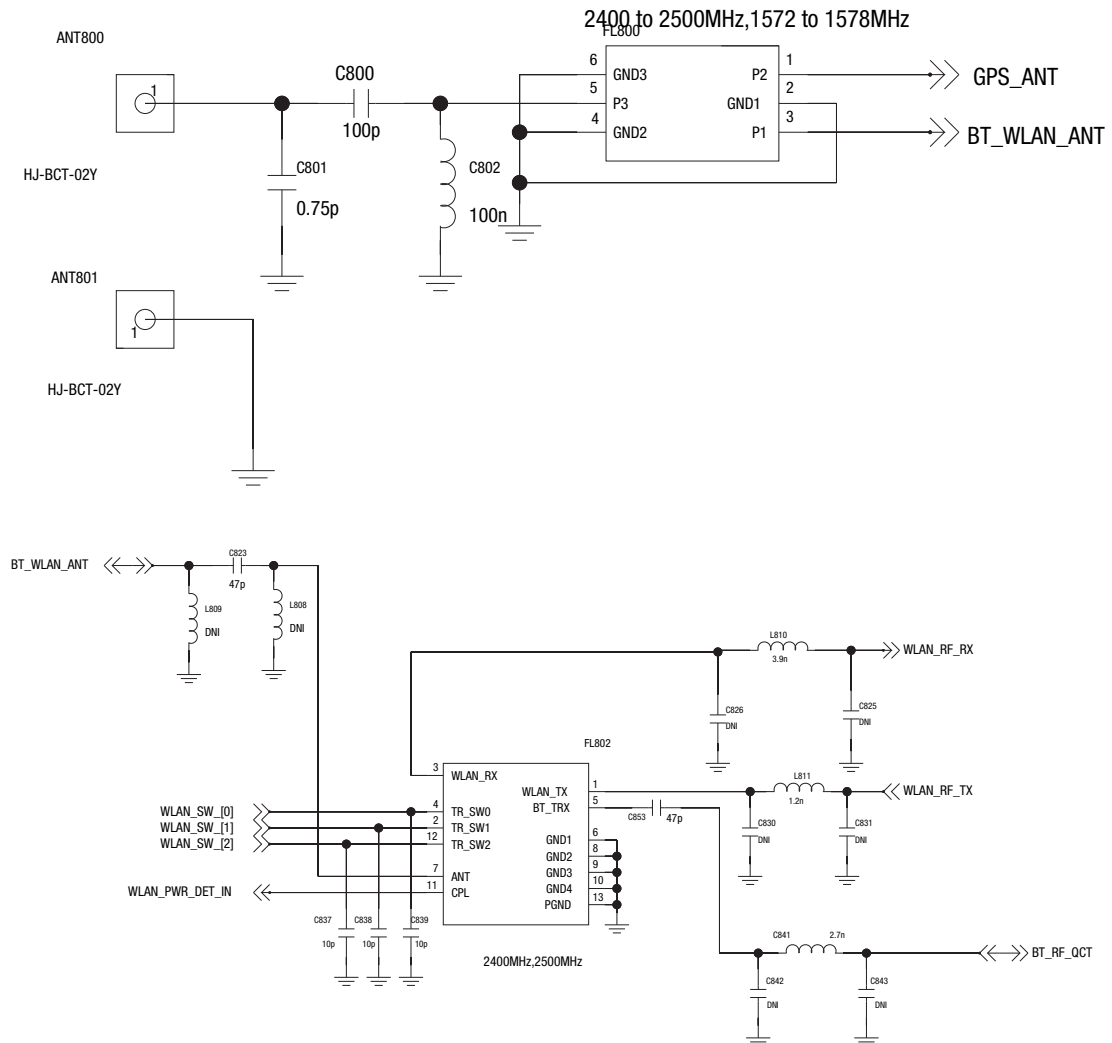
### 4.9.2 WLAN/BT/FM Block





## 4. TROUBLE SHOOTING

### Module part

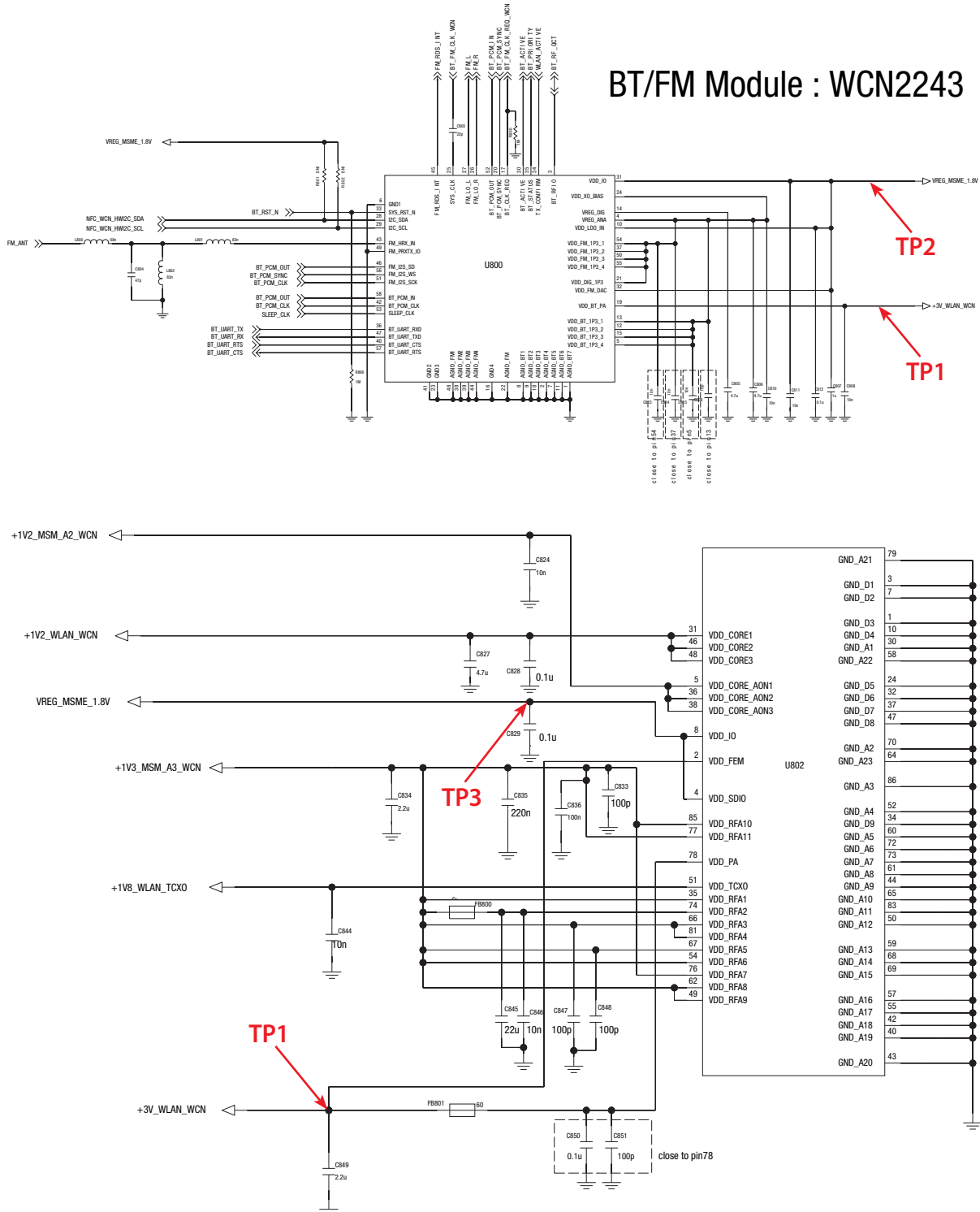


### ANTENNA SWITCH MODULE LOGIC

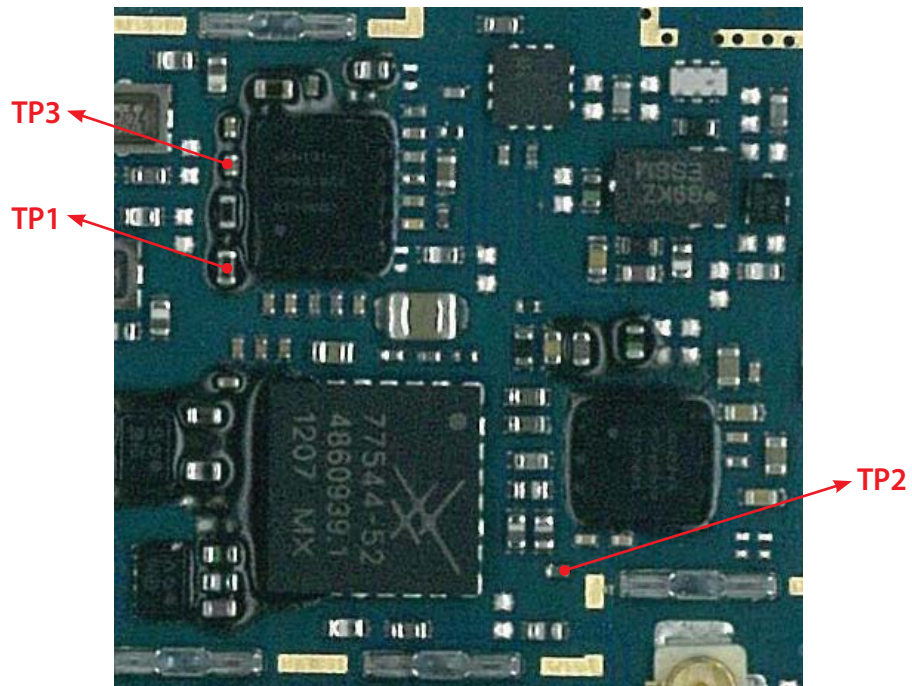
|             | SW0  | SW1  | SW2  |
|-------------|------|------|------|
| WIFI RX-ANT | HIGH | LOW  | LOW  |
| WIFI TX-ANT | LOW  | HIGH | LOW  |
| BT-ANT      | LOW  | LOW  | HIGH |

## 4. TROUBLE SHOOTING

### BT/FM Module : WCN2243



[Figure] Schematic of WiFi/BT module

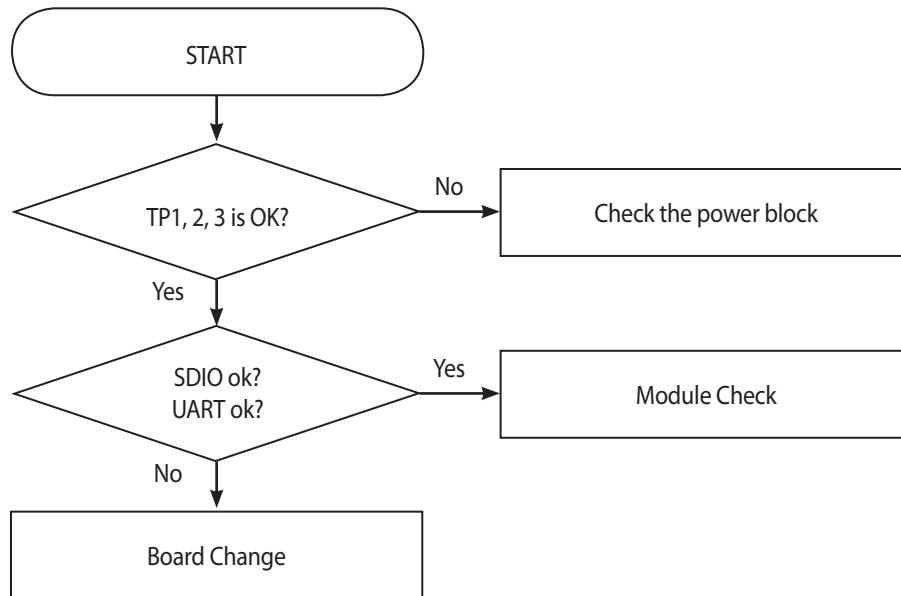


### Test point Description

| Test point | Net name       | Description                                            |
|------------|----------------|--------------------------------------------------------|
| TP1        | +3V_WLAN_WCN   | Power for BT/WiFi BB core and WiFi power Amp. (V Batt) |
| TP2        | VREG_MSME_1.8V | Power for BT power Amp. (1.8V)                         |
| TP3        | VREG_MSME_1.8V | Power for host interface (1.8V)                        |

## 4. TROUBLE SHOOTING

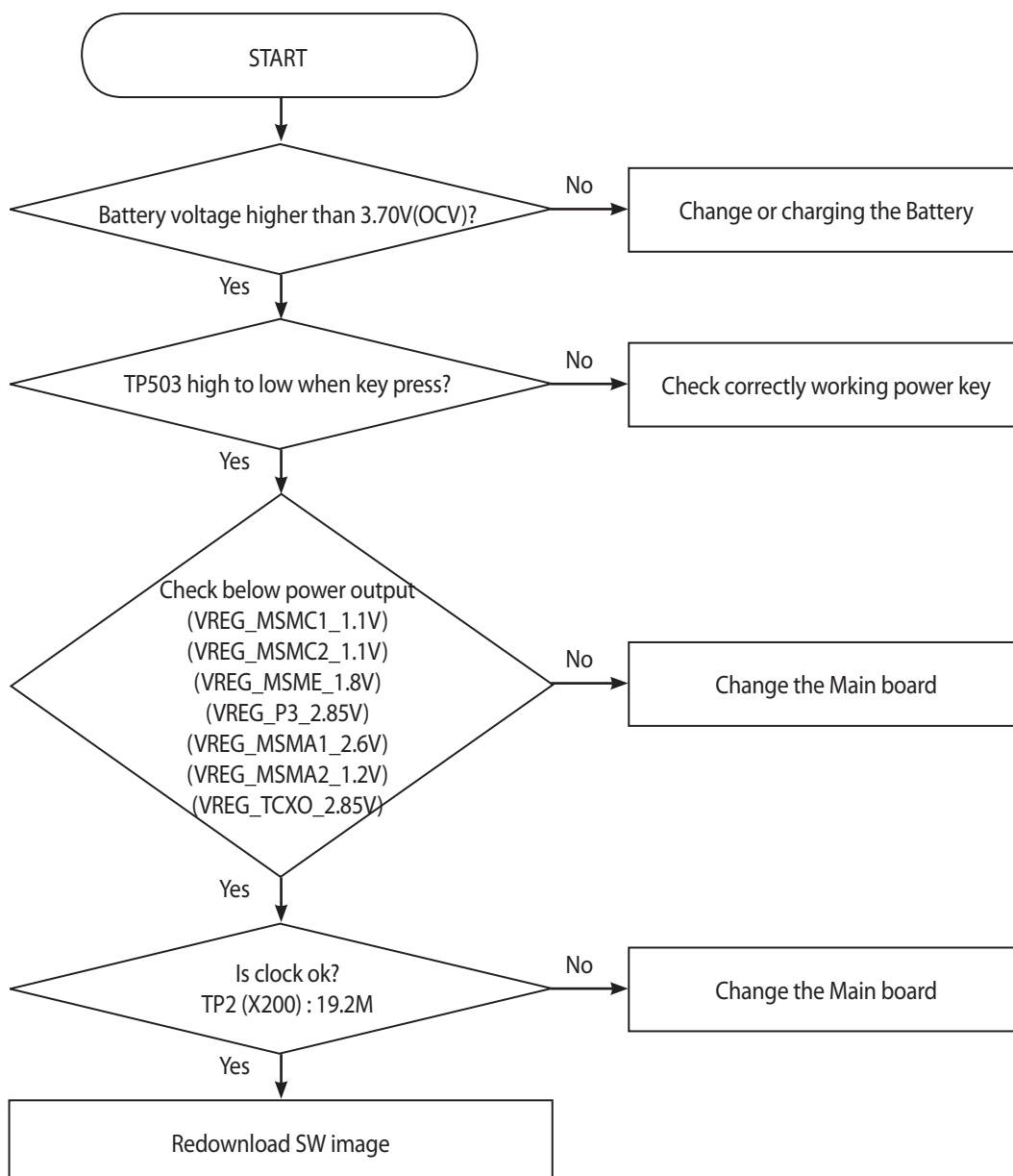
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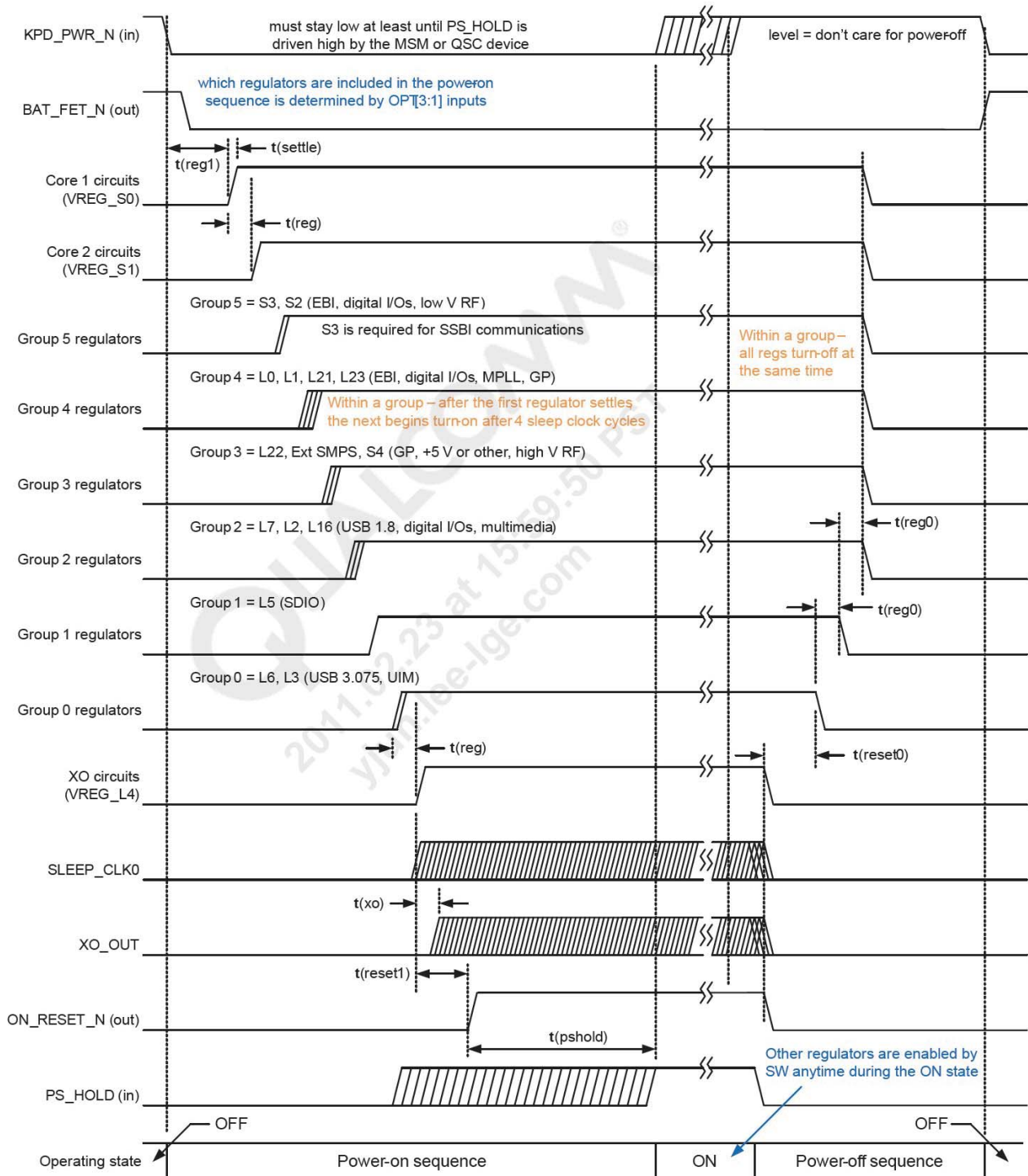
### 4.10 Power ON Trouble Shooting

Power On sequence of P705 is :

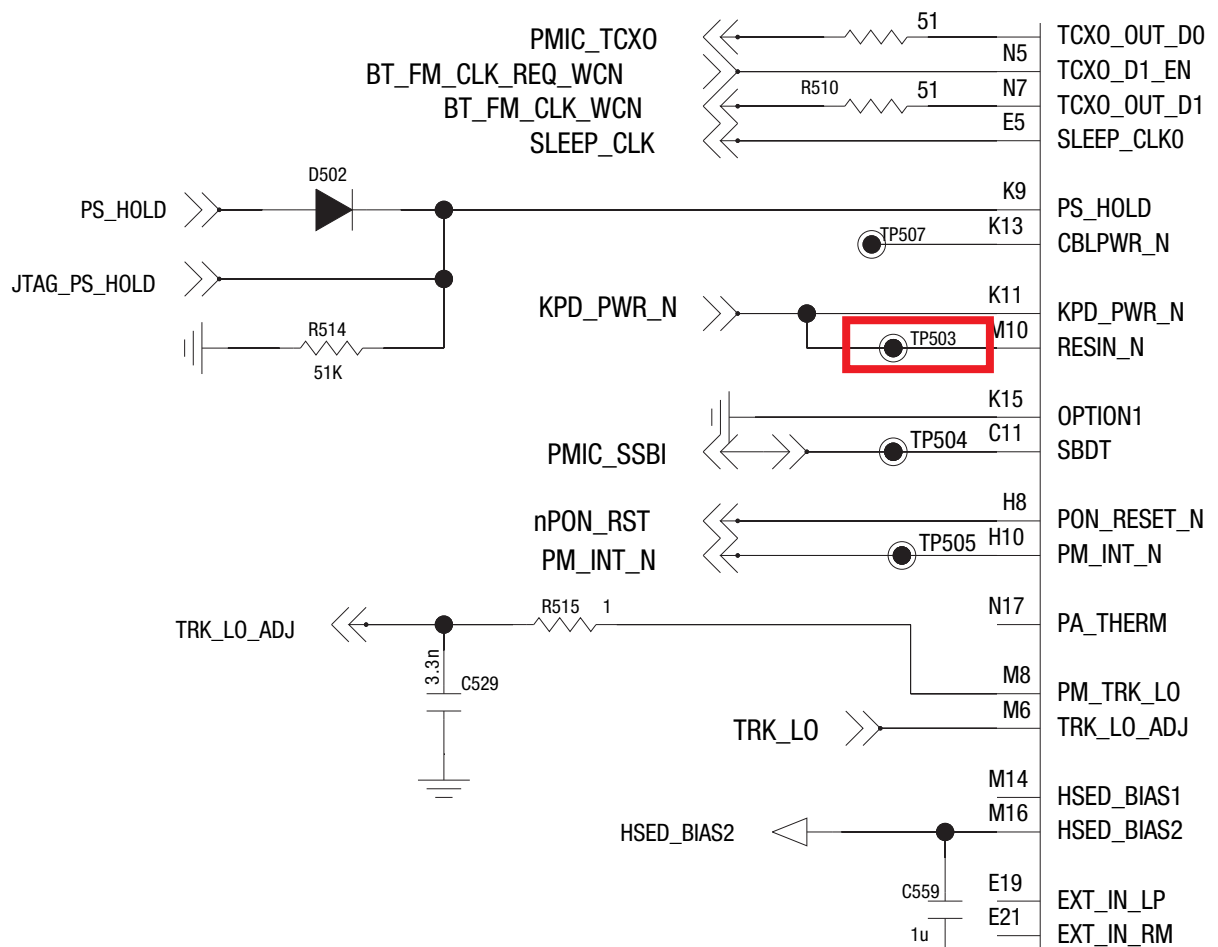
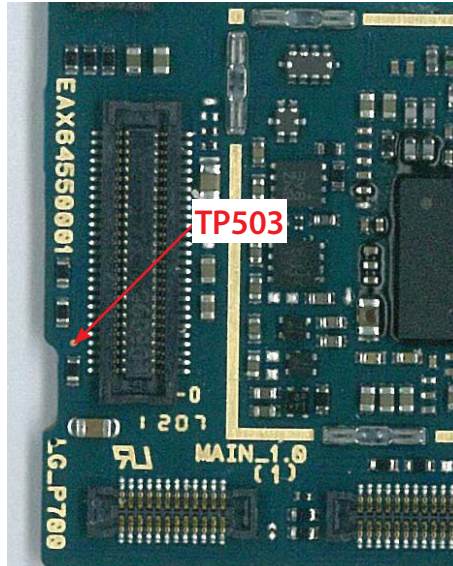
Power key press -> KPD\_PWR\_N go to low -> PM8029 Power Up -> VREG\_MSMC1\_1.1V (L500), VREG\_MSMC2\_1.1V (L501), VREG\_MSME\_1.8V (L502), VREG\_P3\_2.85V (C541), VREG\_MSMA1\_2.6V (C536), VREG\_MSMA2\_1.2V (C532) VREG\_TCXO\_2.85V (C537) power ON -> Phone booting and PS\_HOLD(D502) go to High



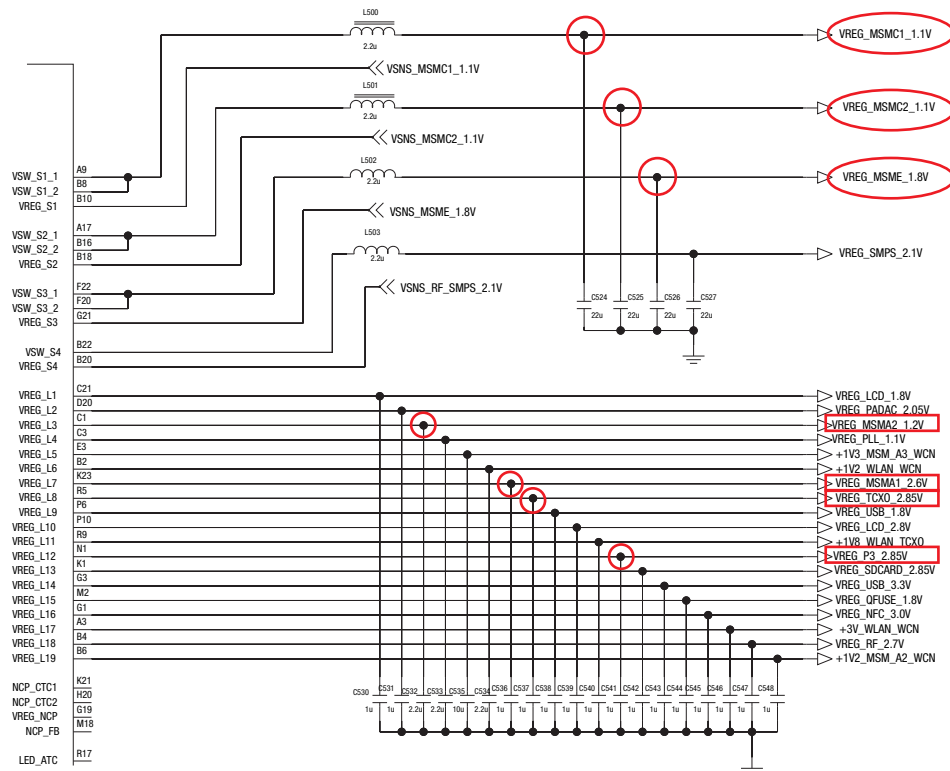
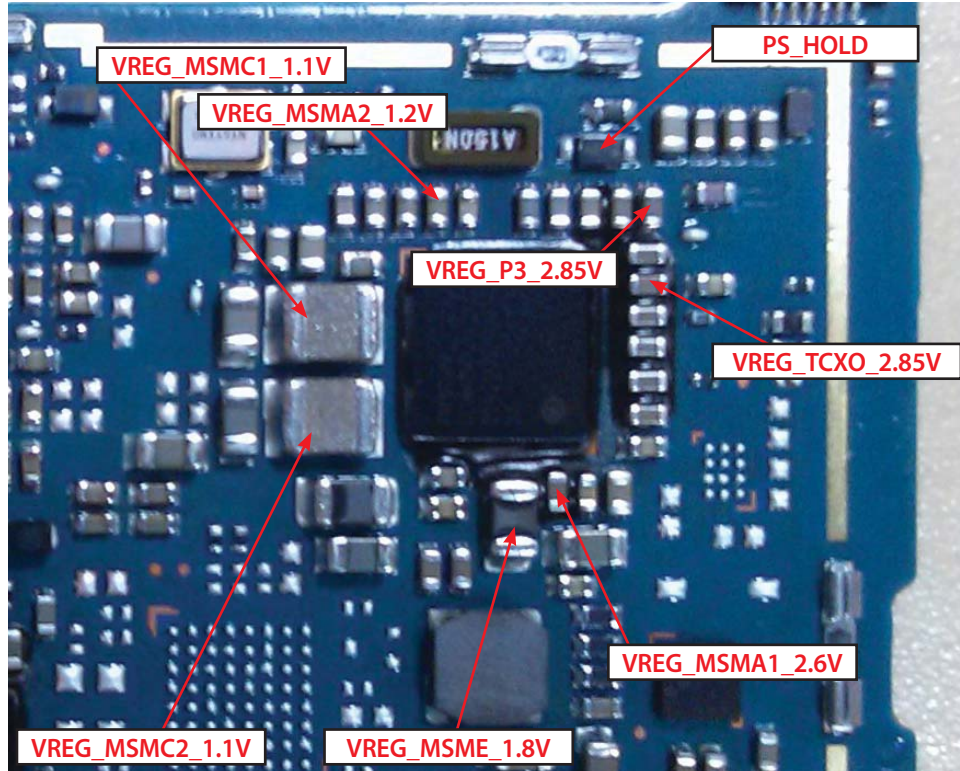
## 4. TROUBLE SHOOTING



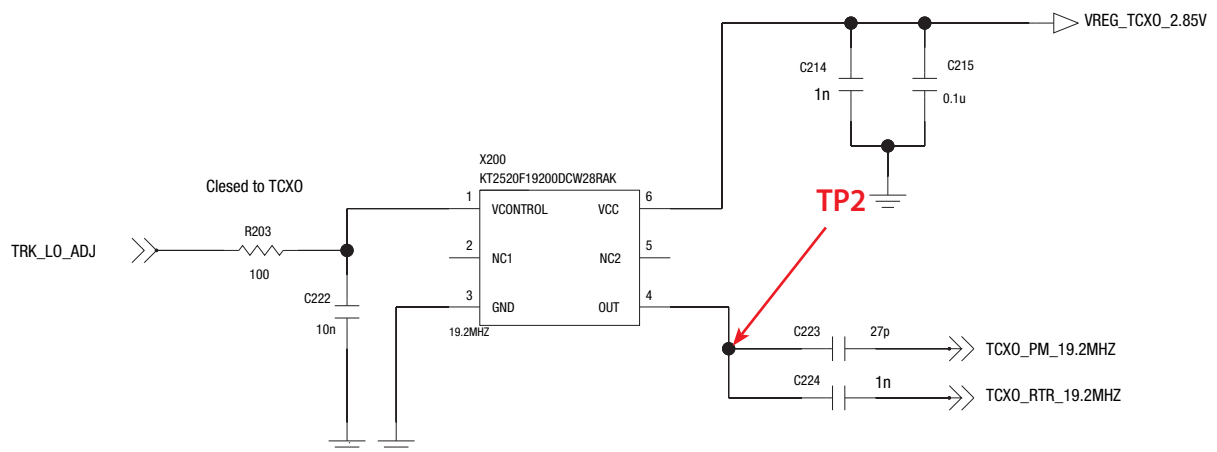
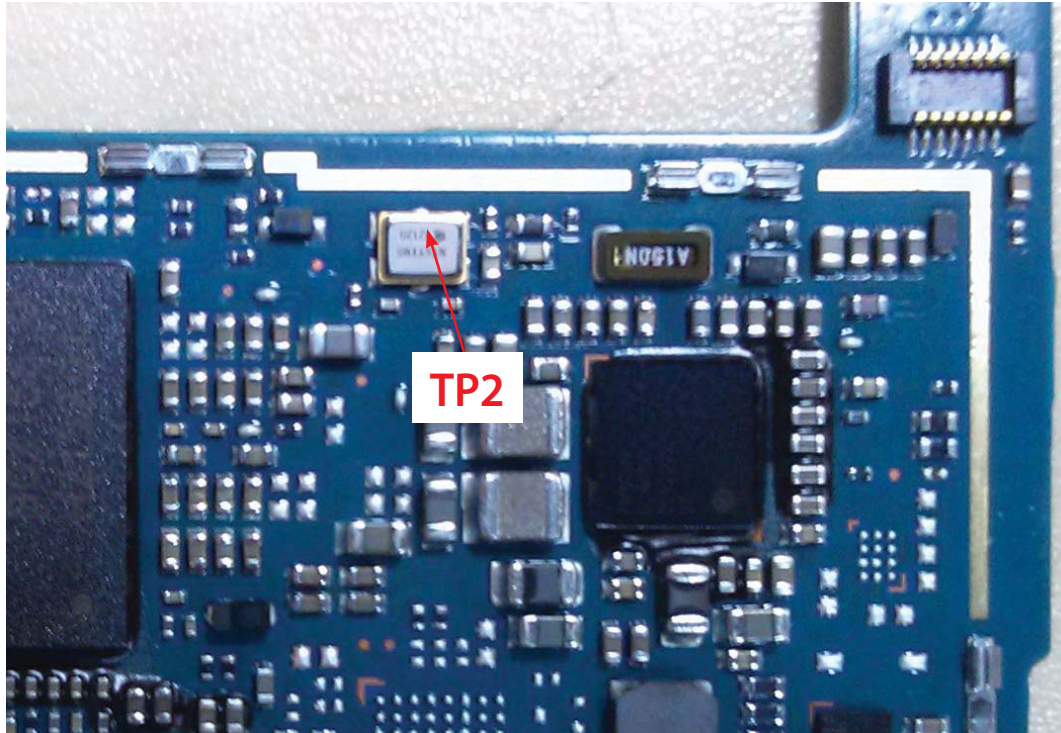
## 4. TROUBLE SHOOTING



## 4. TROUBLE SHOOTING

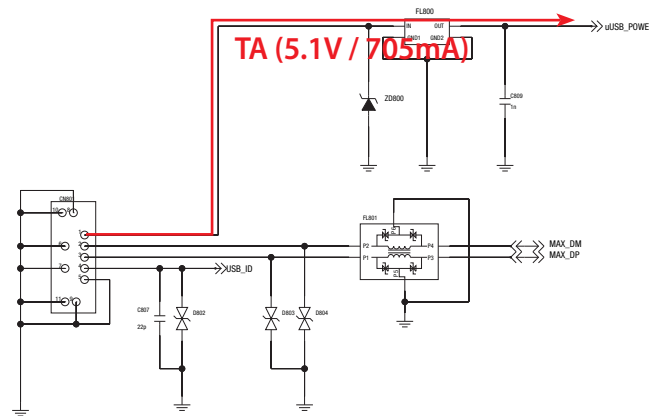


## 4. TROUBLE SHOOTING

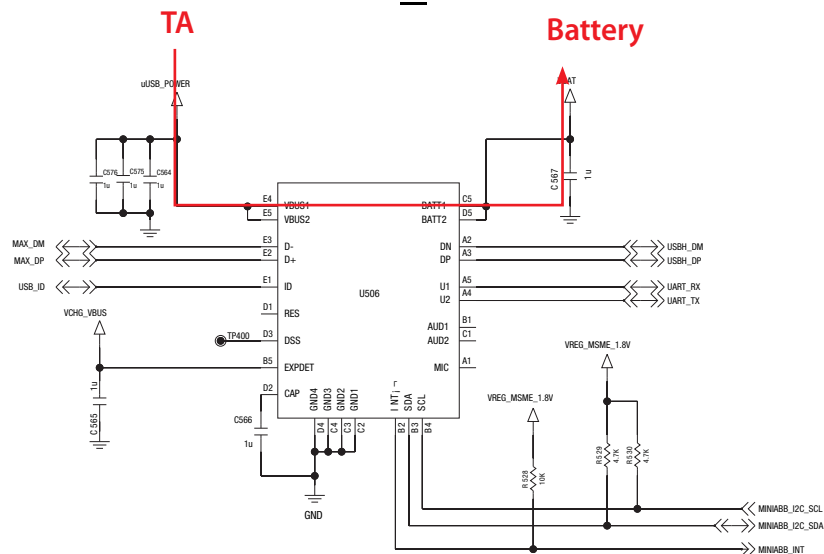


### 4.11 Charging Trouble Shooting

#### MICRO USB IO



#### Mini ABB\_NS



#### 1. Charging Procedure

- Connect TA or u-USB Cable
- Control the charging current by LP8727-B IC
- Charging current flows into the battery

#### 2. Check Point

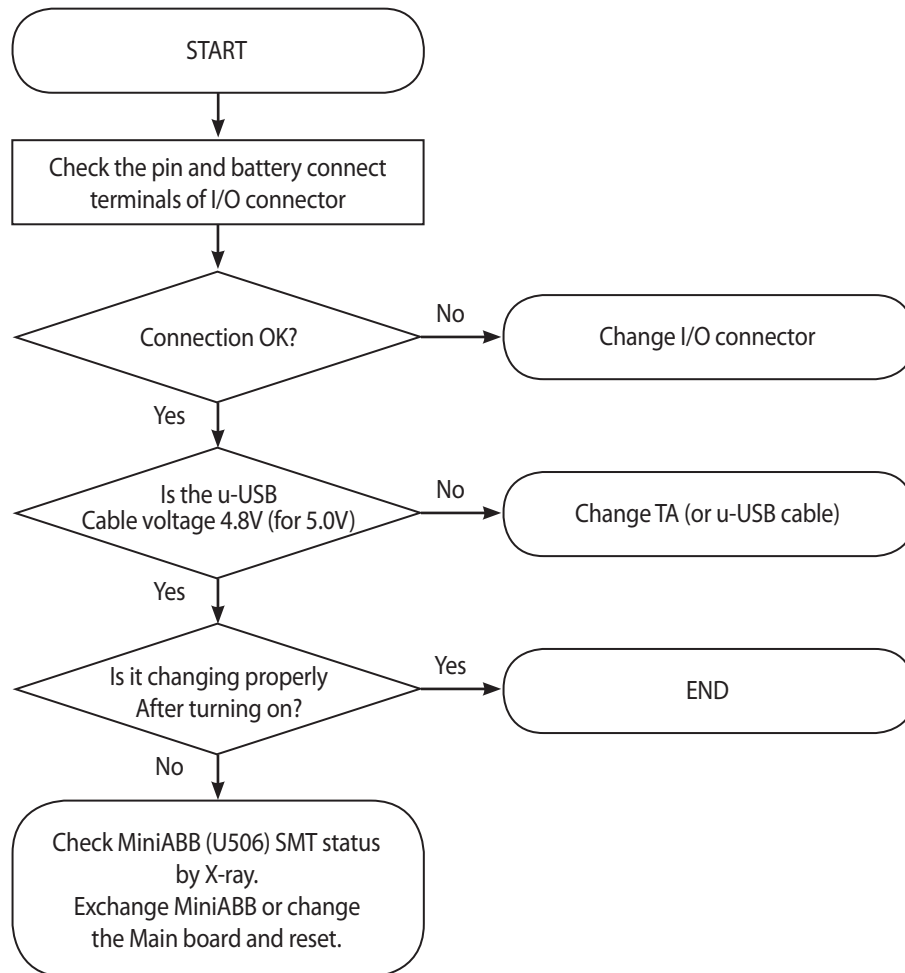
- Connection of TA or USB Cable
- Charging IC (LP8727-B)
- Battery

#### 3. Troubleshooting Setup

- Connect TA and battery to the phone

#### 4. Troubleshooting Procedure

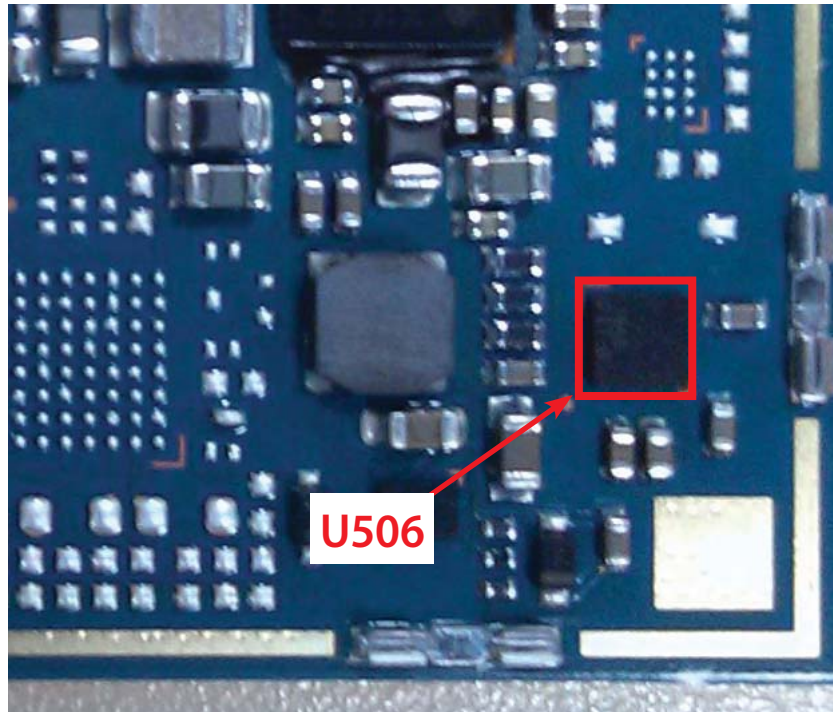
- Check the charger (TA or USB Cable)
- Check the OVP Circuit
- Check the Charging IC



**Charger Troubleshoot Flow**

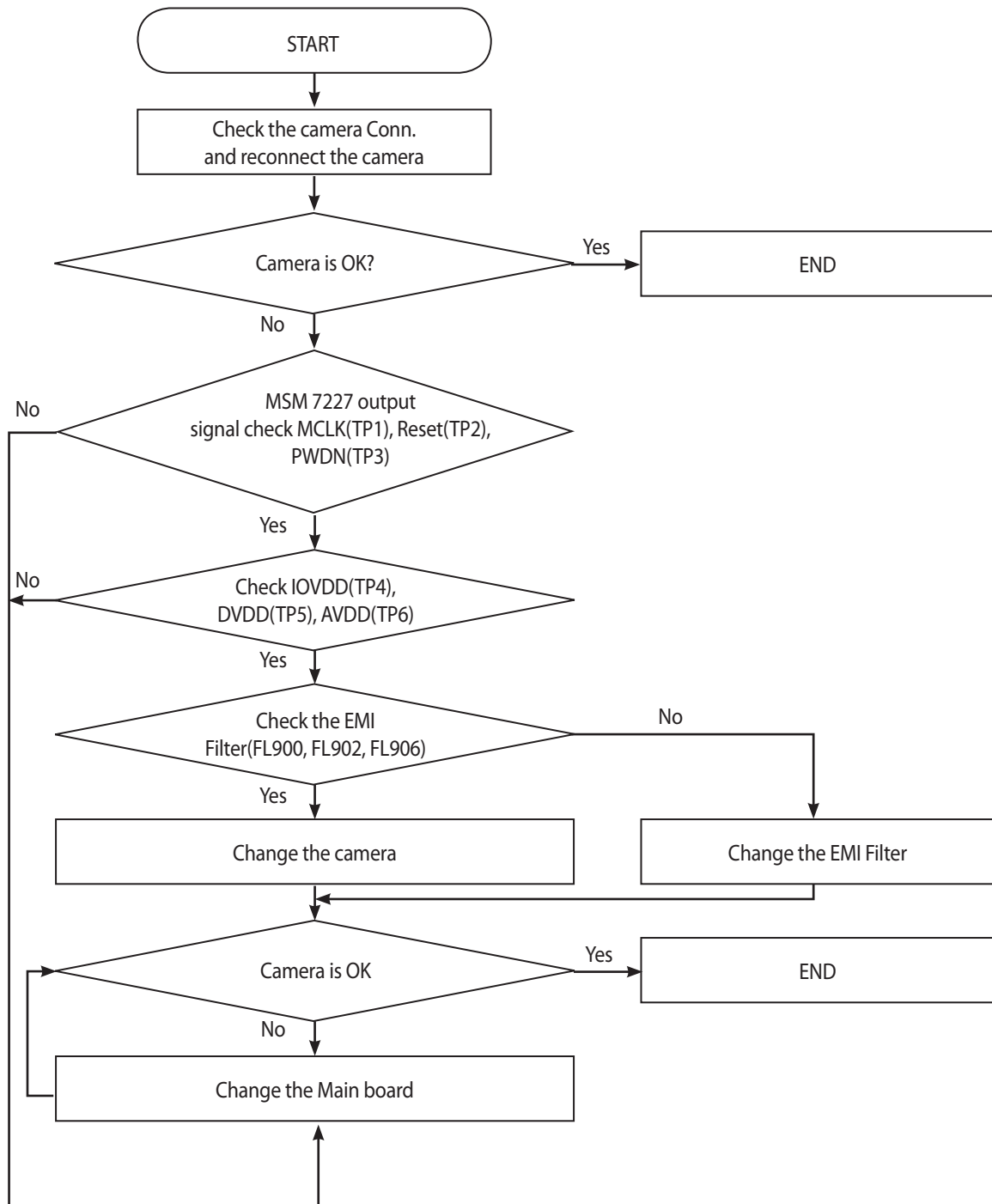
## 4. TROUBLE SHOOTING

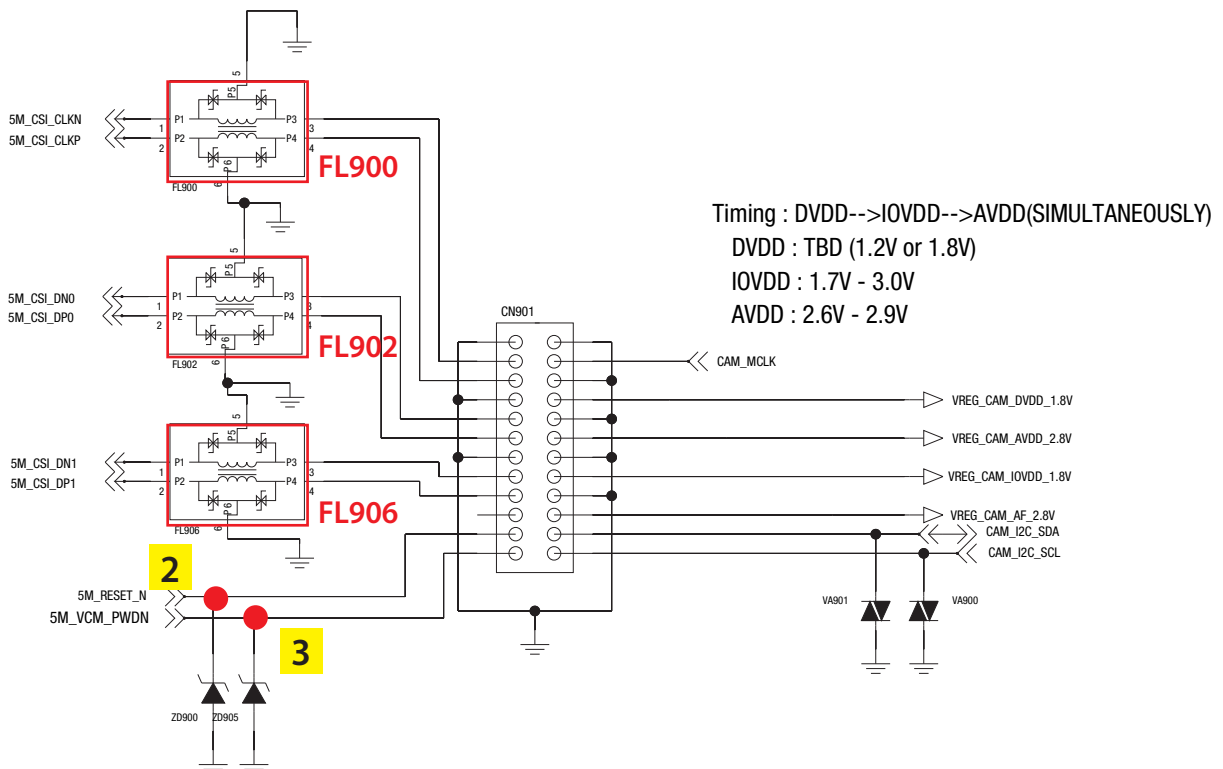
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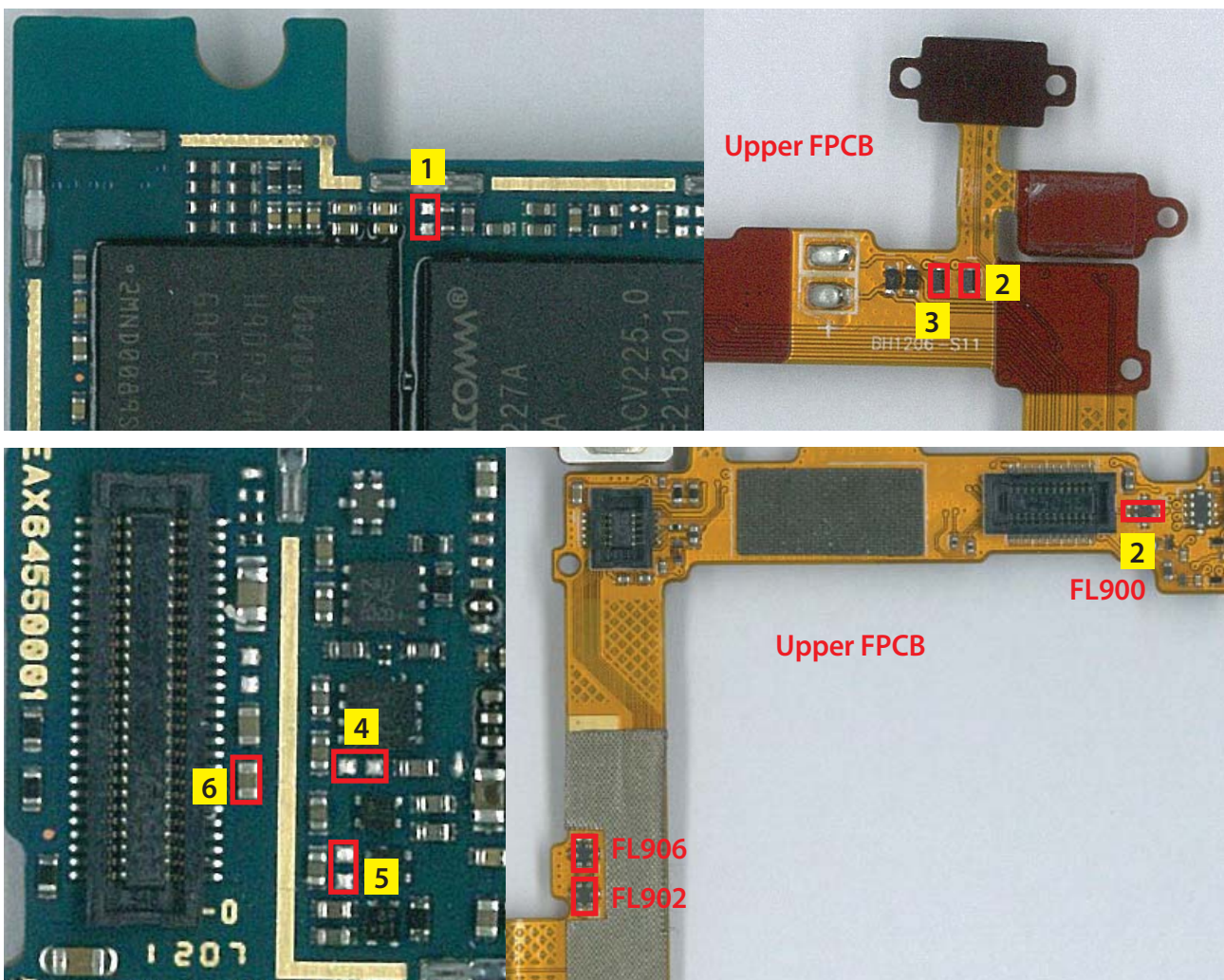
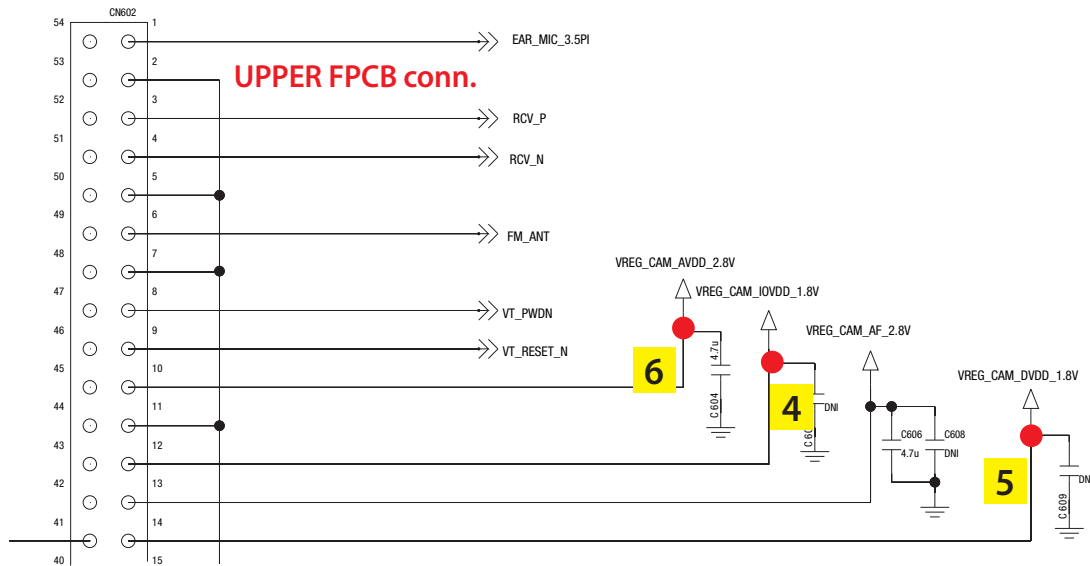
### 4.12 5M Camera Trouble Shooting

5M camera control signals are generated by MSM7227A.



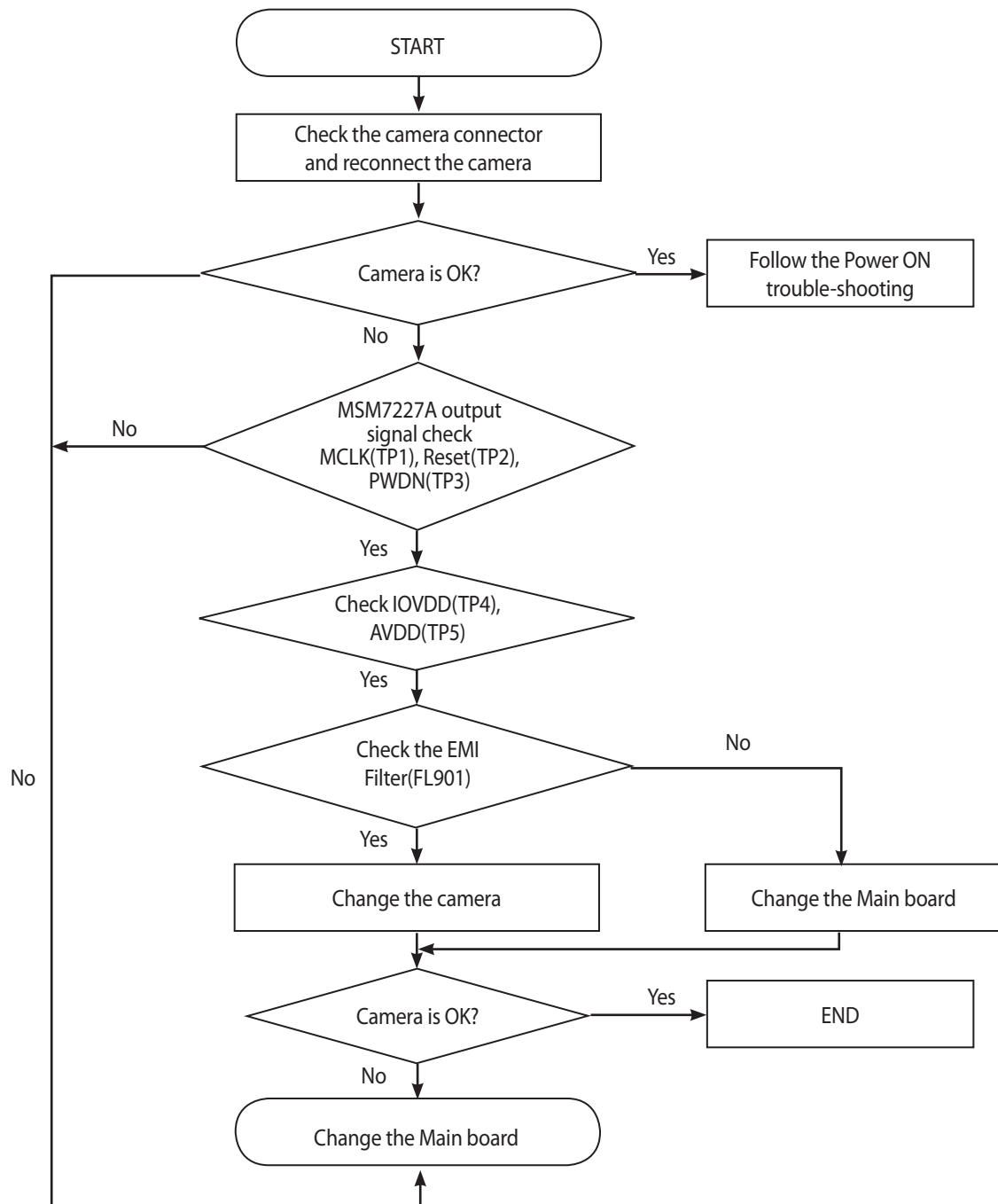


## 4. TROUBLE SHOOTING

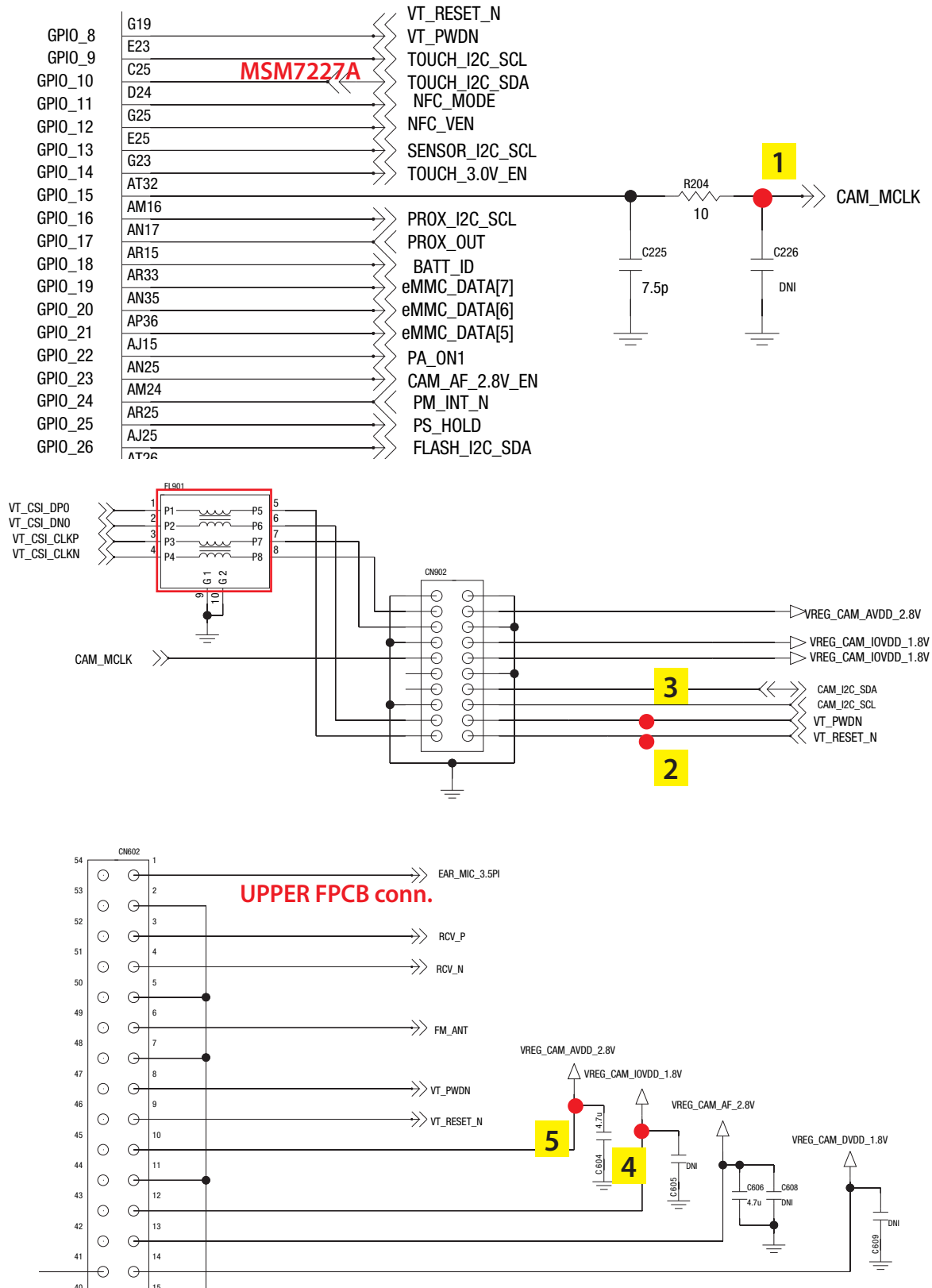


### 4.13 VGA Camera Trouble Shooting

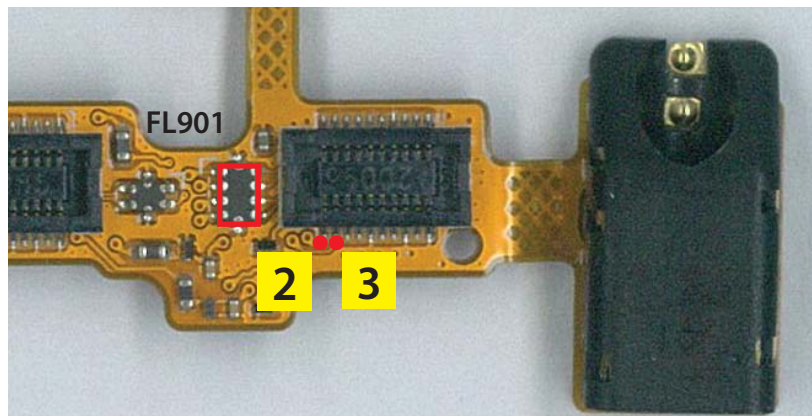
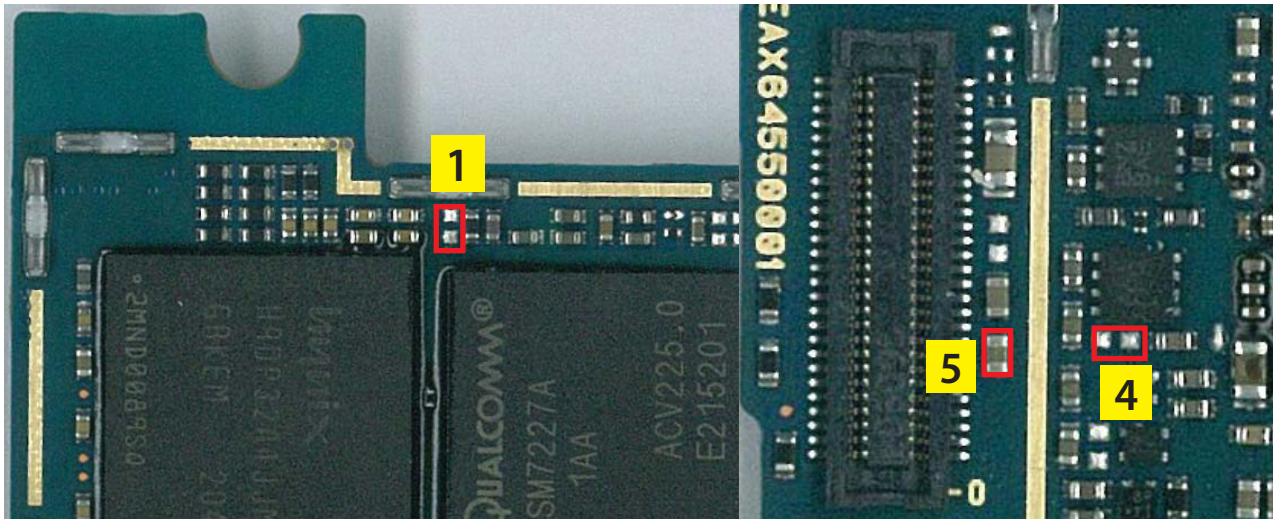
VGA camera control signals are generated by MSM7227A.



## 4. TROUBLE SHOOTING



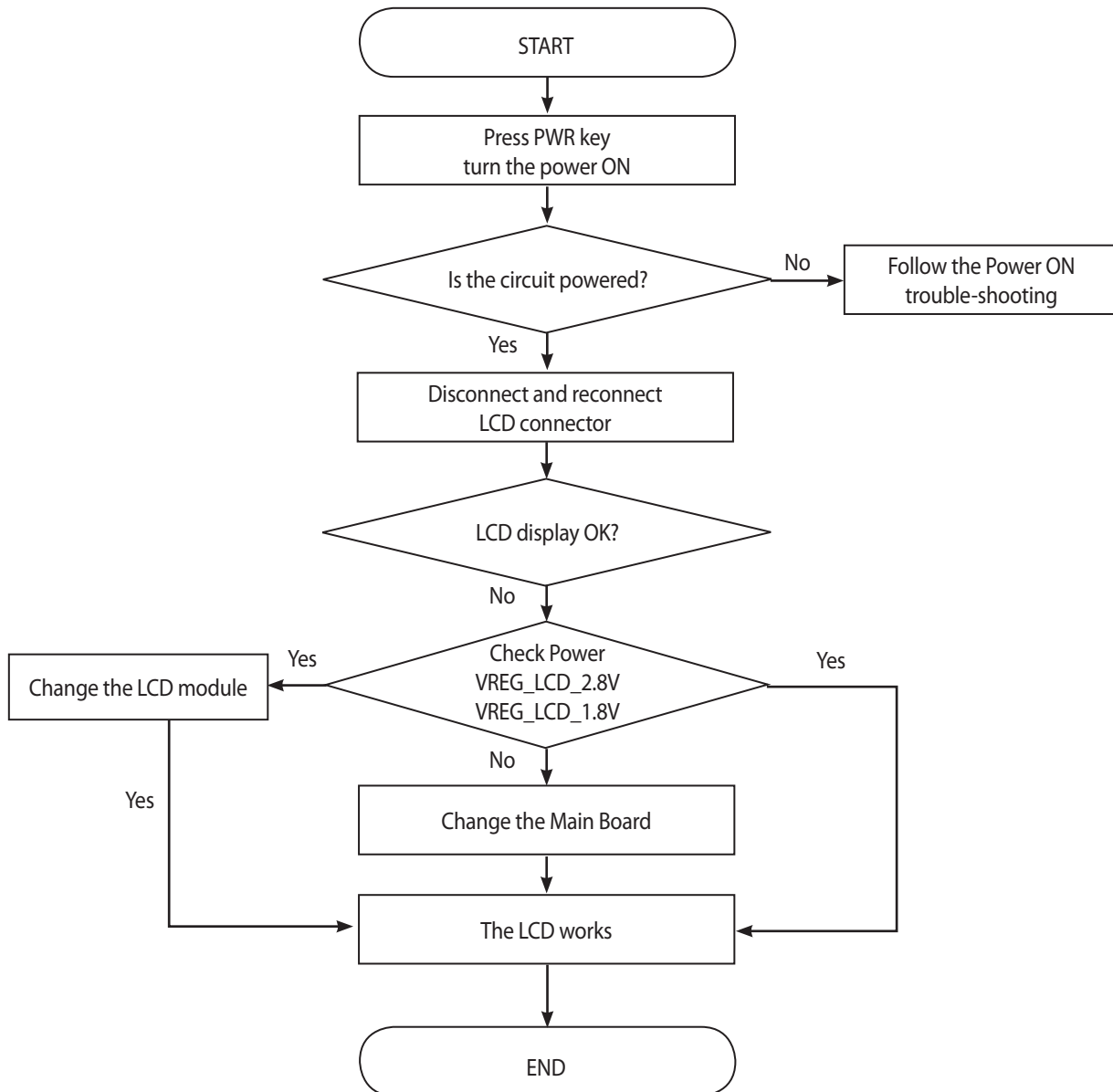
## 4. TROUBLE SHOOTING



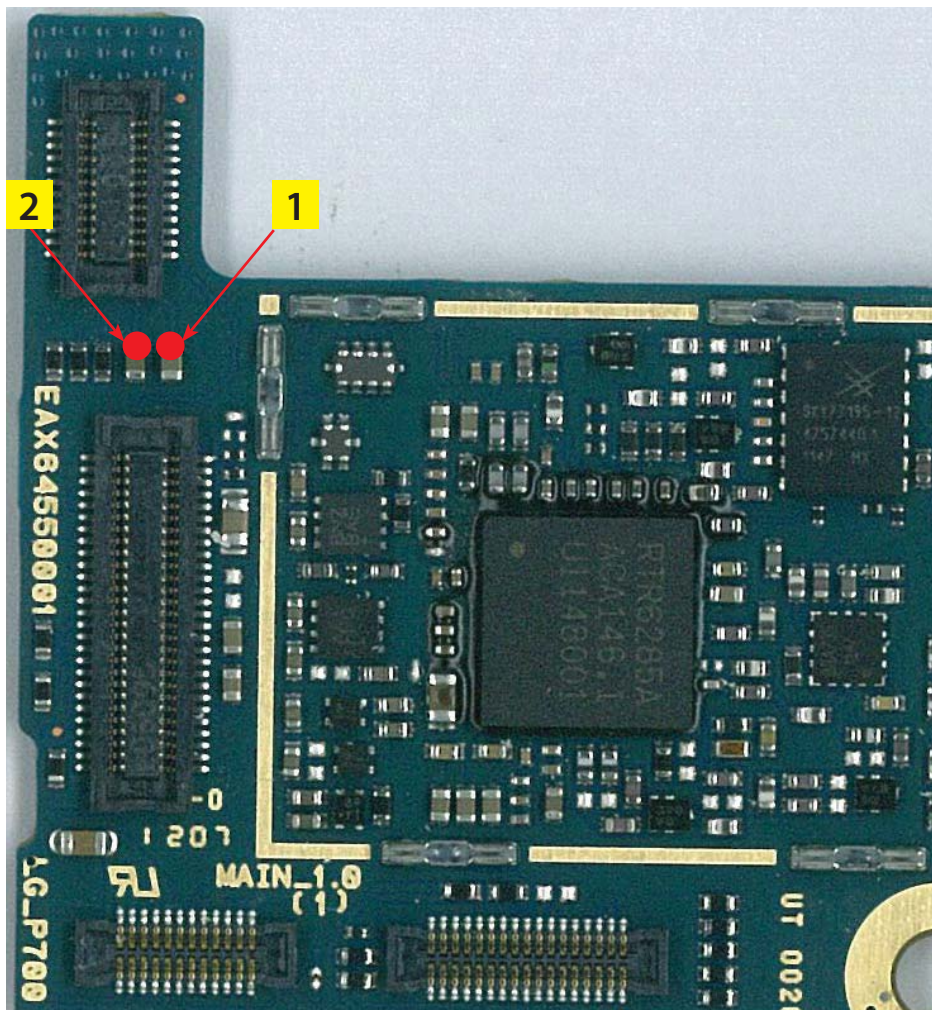
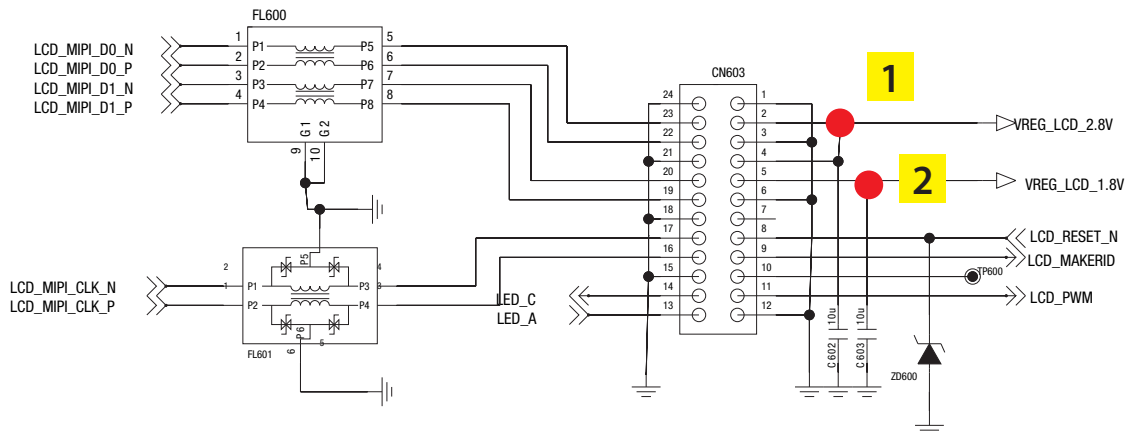
### 4.14 Main LCD trouble

Main LCD control signals are generated by MSM7227A. Those signal's path are :

MSM7227A-> LCD Module



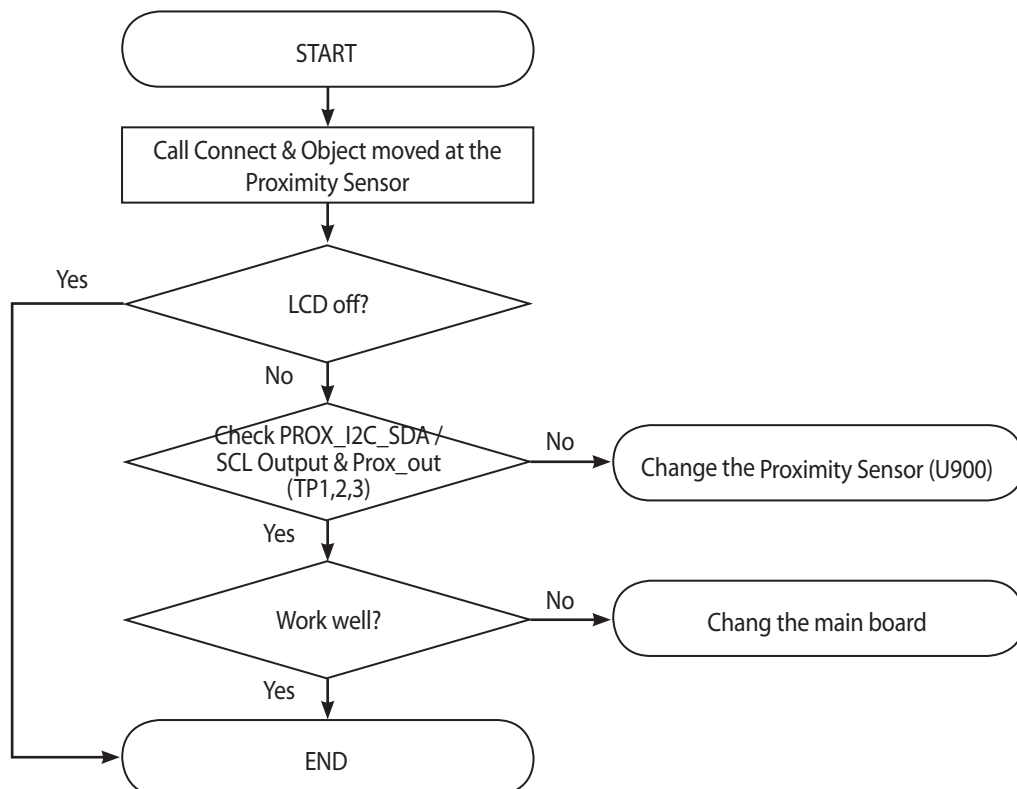
## 4.3" WVGA MIPI 2Lane



### 4.15 Proximity Sensor on/off Trouble Shooting

Proximity Sensor is worked as below :

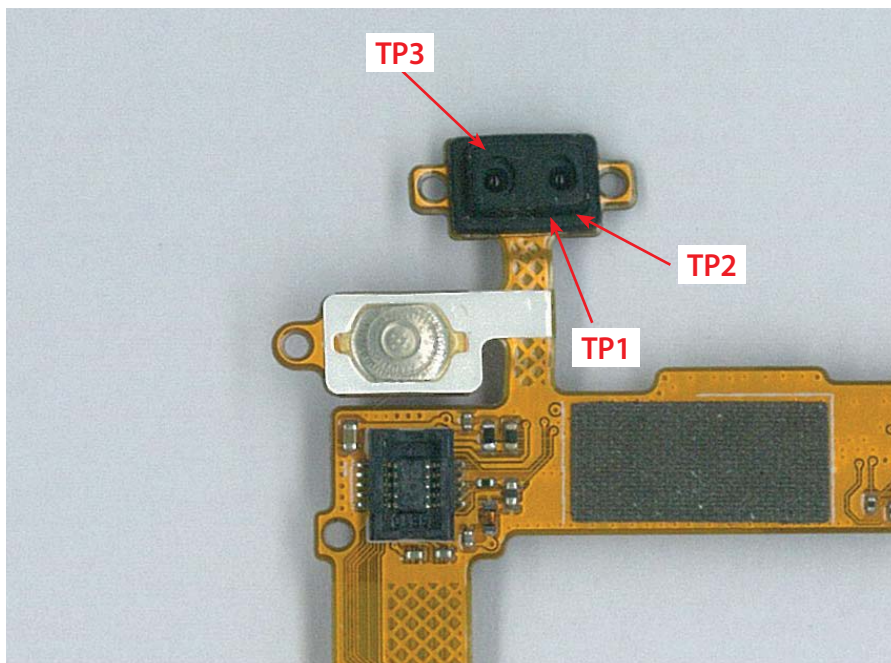
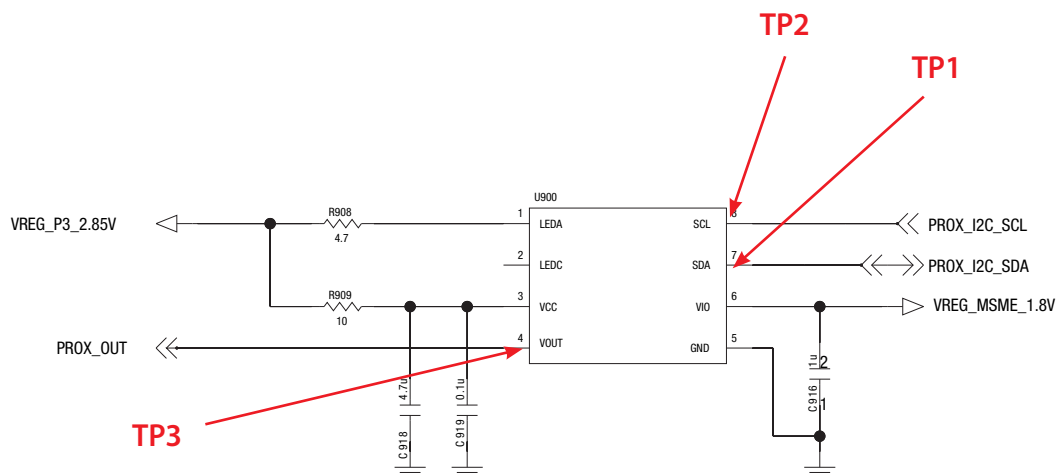
Call connected -> Object moved at the sensor -> Control the screen's on/off operation automatically



#### Measurement

VREG\_MSME\_1.8V  
 VREG\_P3\_2.85V  
 PROX\_OUT  
 PROX\_I2C\_SCL / SDA

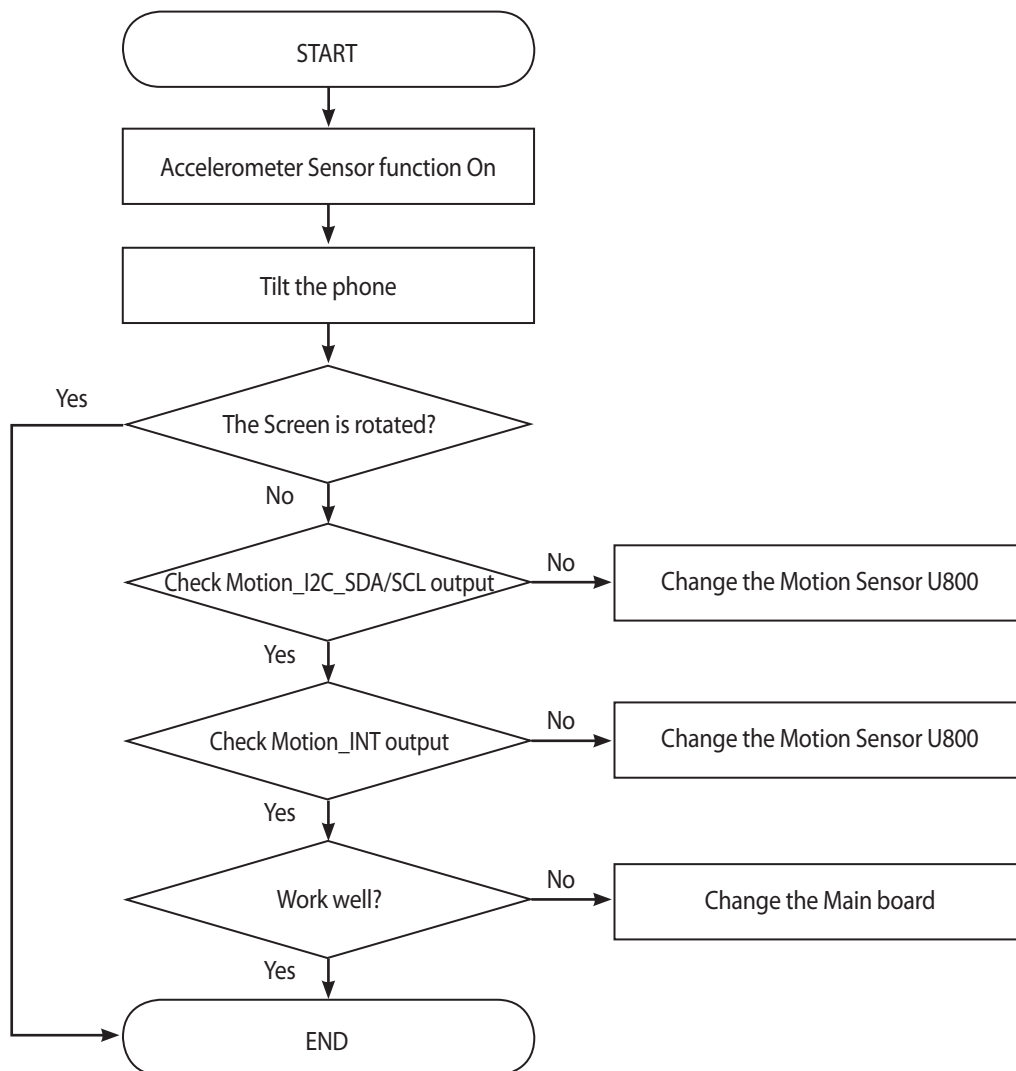
# Proximity Sensor



### 4.16 Motion Sensor on/off Trouble Shooting

Motion Sensor is worked as below :

Accelerometer Sensor function On → Tilt the phone (90°) → The screen is had rotated automatic



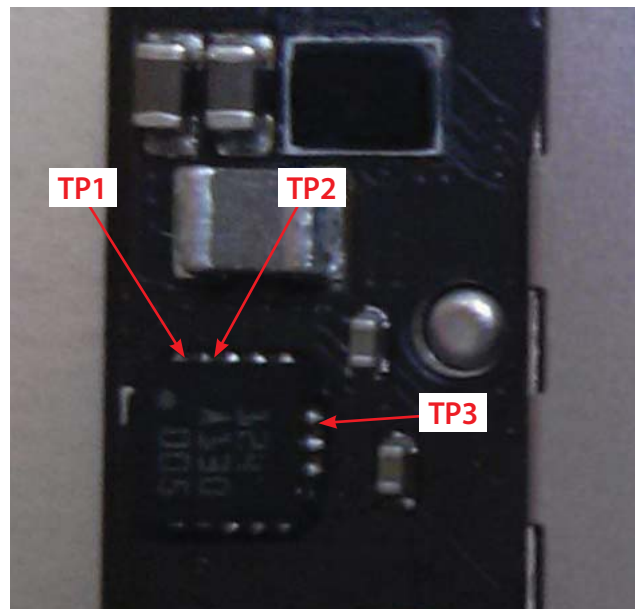
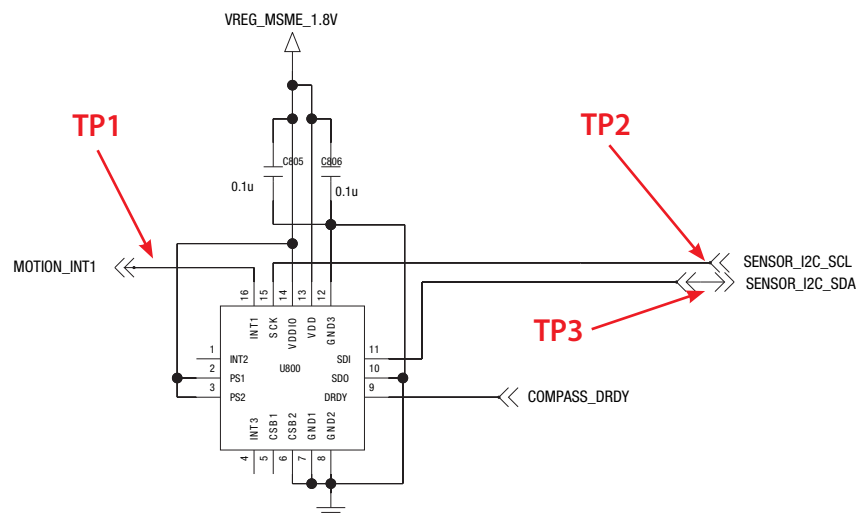
#### Measurement

VREG\_MSME\_1.8V

MOTION\_INT

SENSOR\_I2C\_SDA / SCL

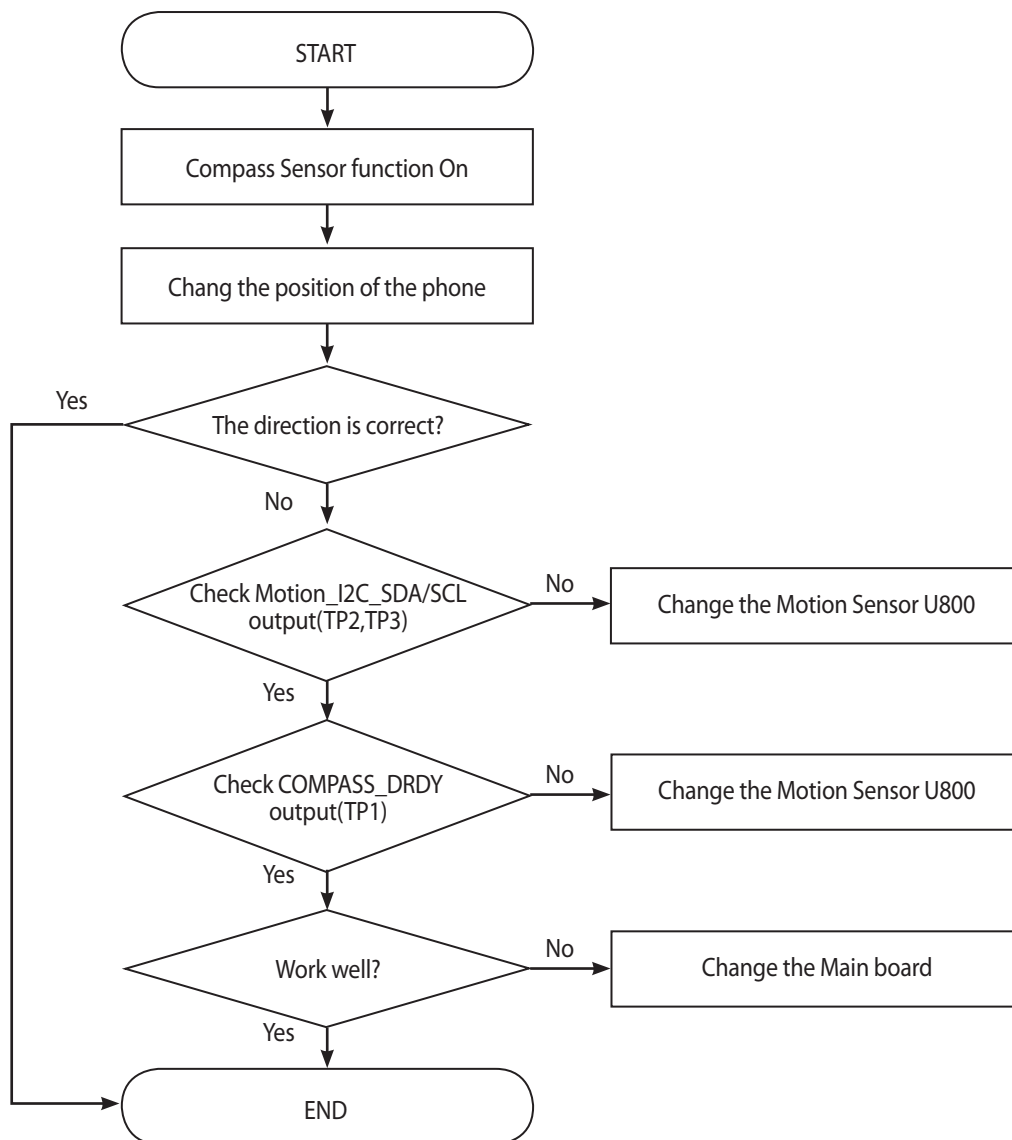
# Digital Compass + Accelerometer sensor



### 4.17 Compass Sensor on/off Trouble Shooting

Compass Sensor is worked as below :

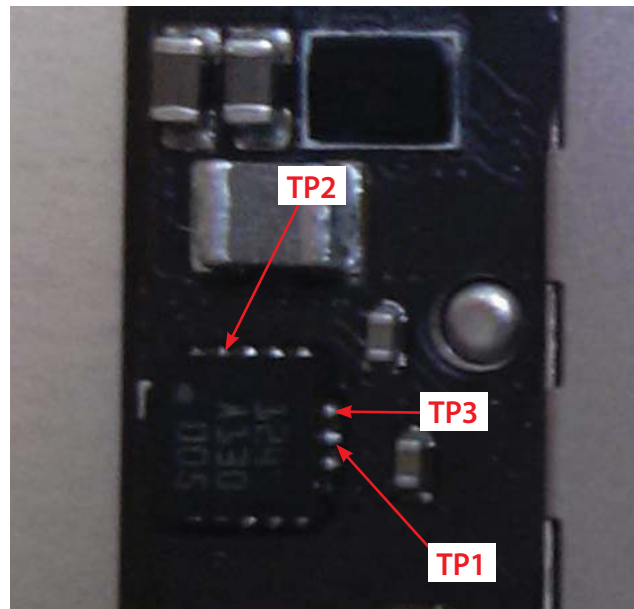
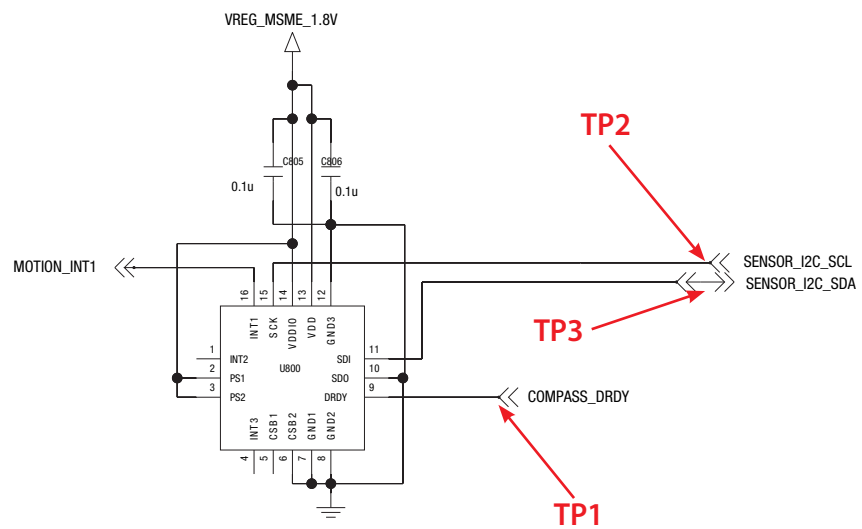
Compass Sensor function On



#### Measurement

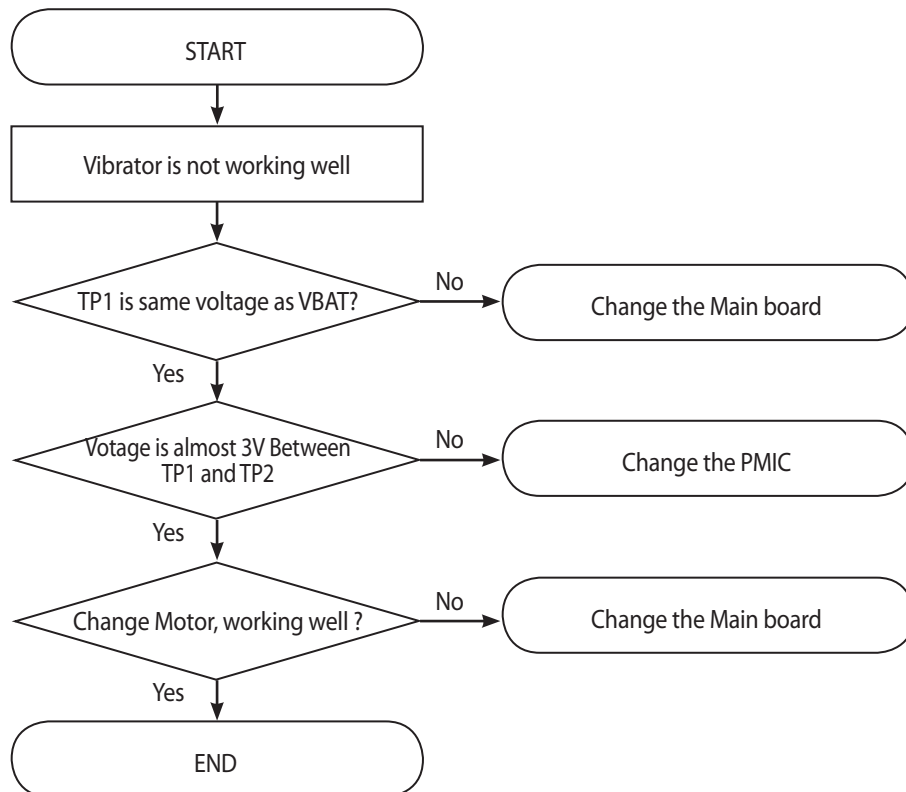
VREG\_MSME\_1.8V  
SENSOR\_I2C\_SCL / SDA  
COMPASS\_DRDY

# Digital Compass + Accelerometer sensor



### 4.18 DC Motor Trouble Shooting

Vibrator is worked as below

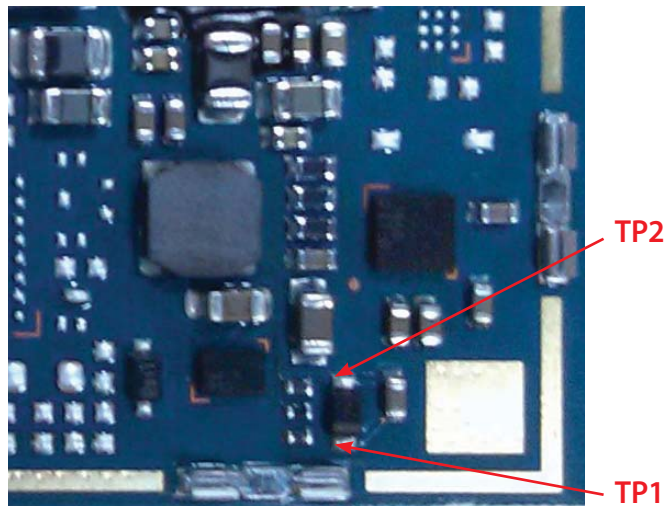
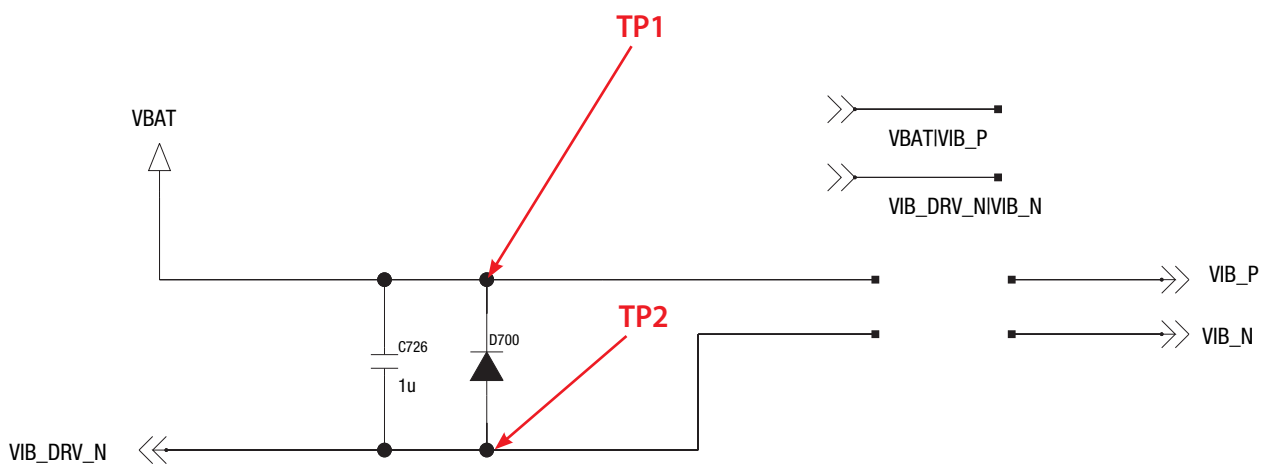


#### Measurement

VBAT

VIB\_DRV\_N

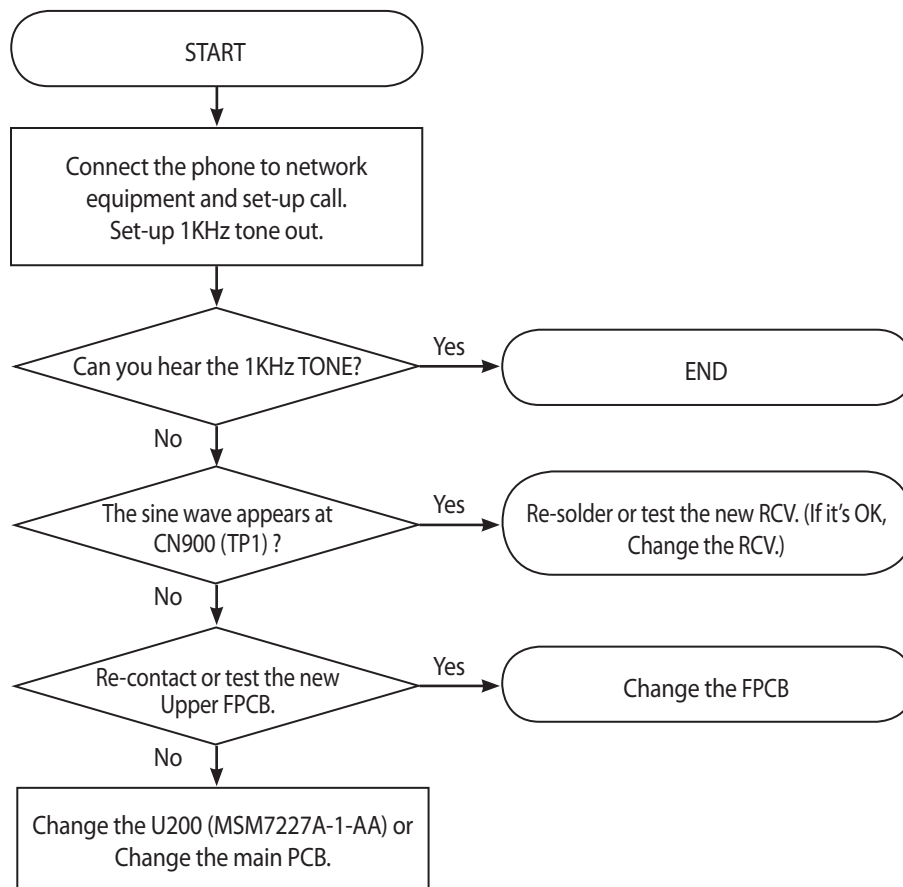
# MOTOR



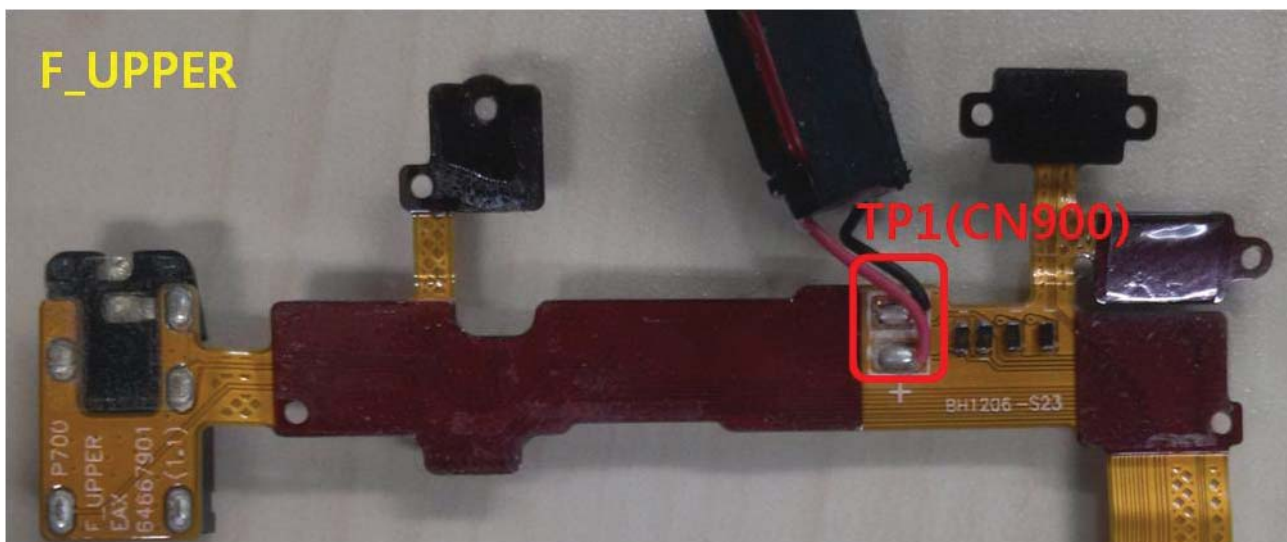
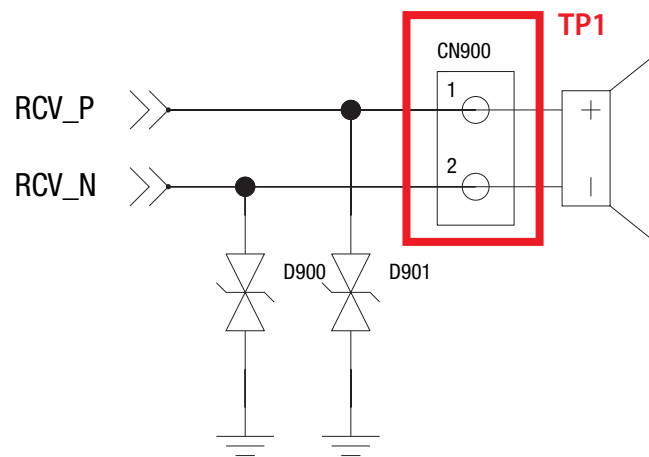
### 4.19 Audio Trouble

#### 4.19.1 Receiver Path

MSM7227A-1-AA RCV\_N / RCV\_P -> CN900 (TP1) (RCV pad)

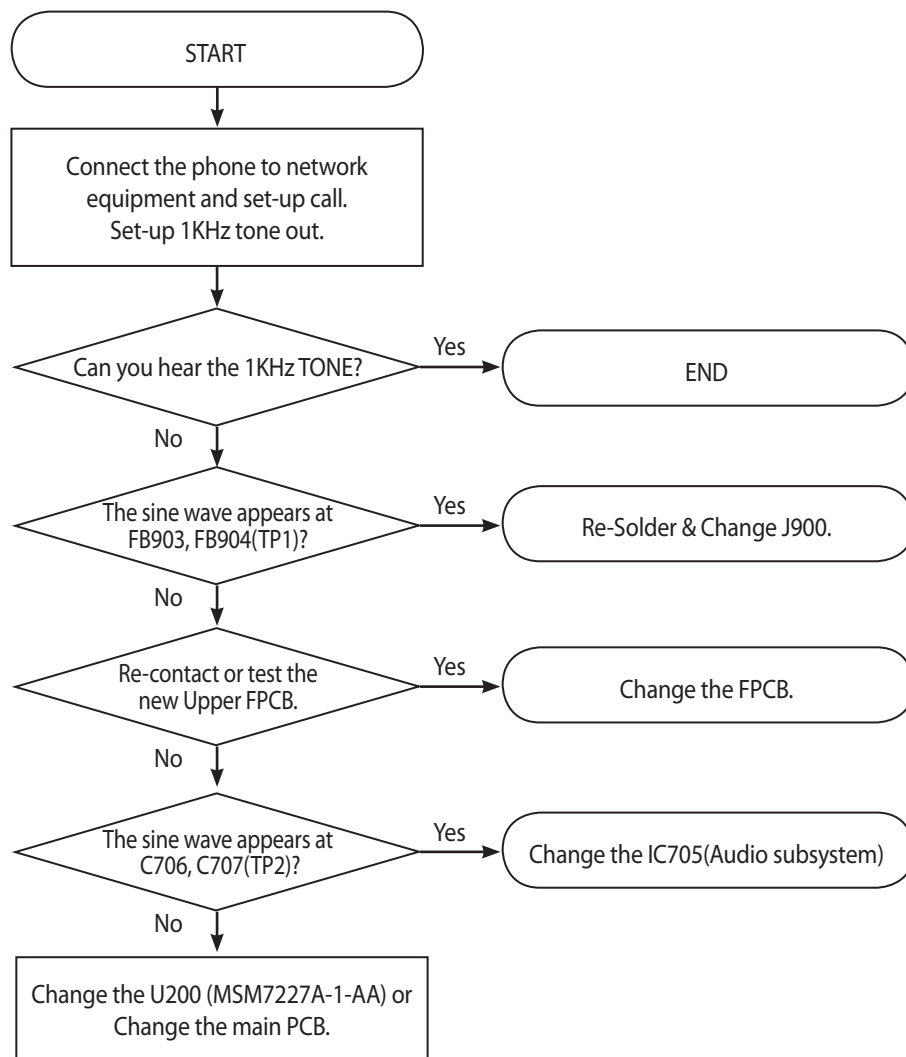


# RECEIVER

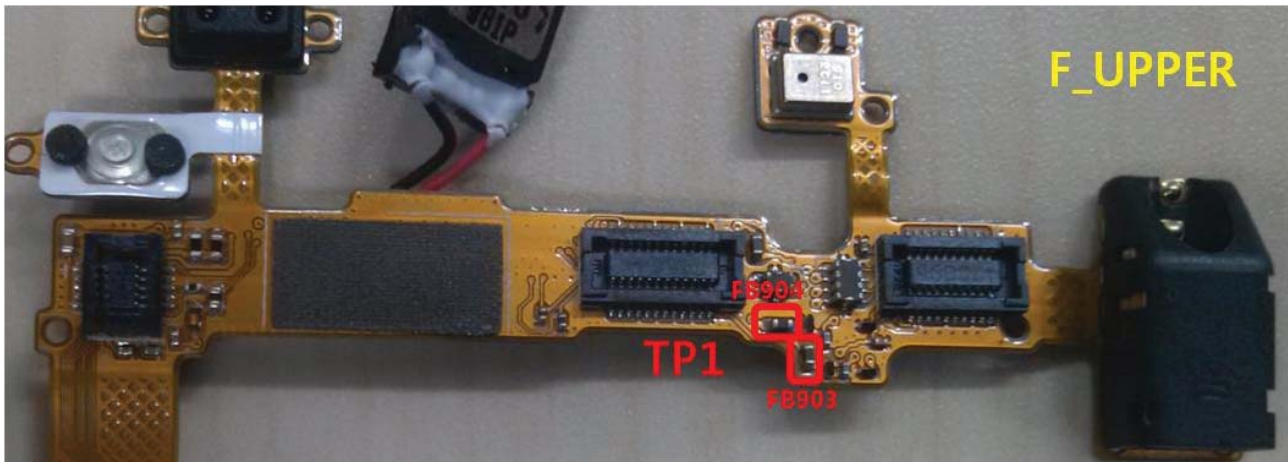
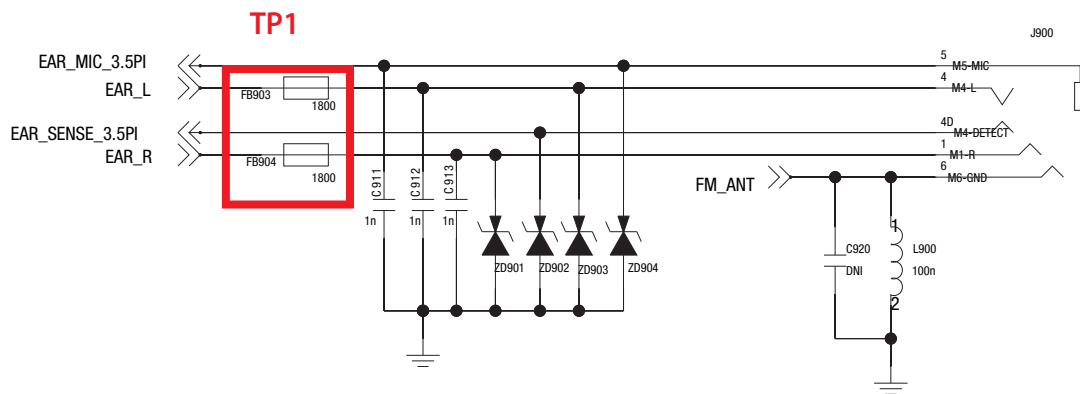


### 4.19.2 Headset path

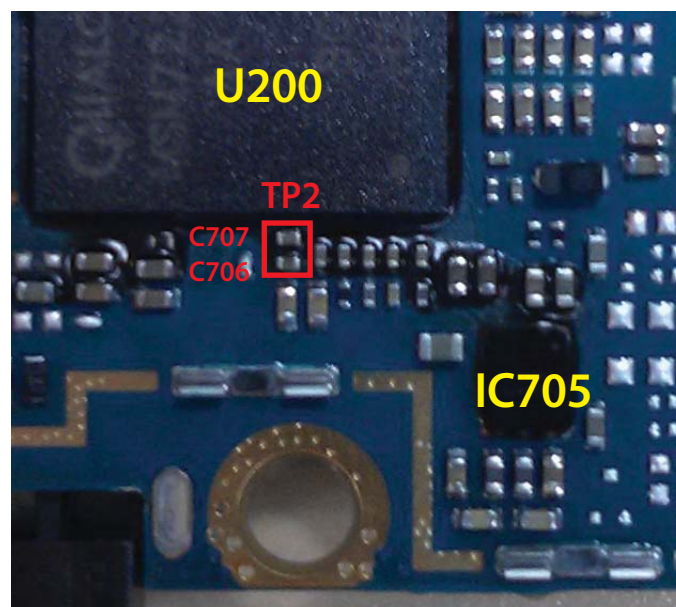
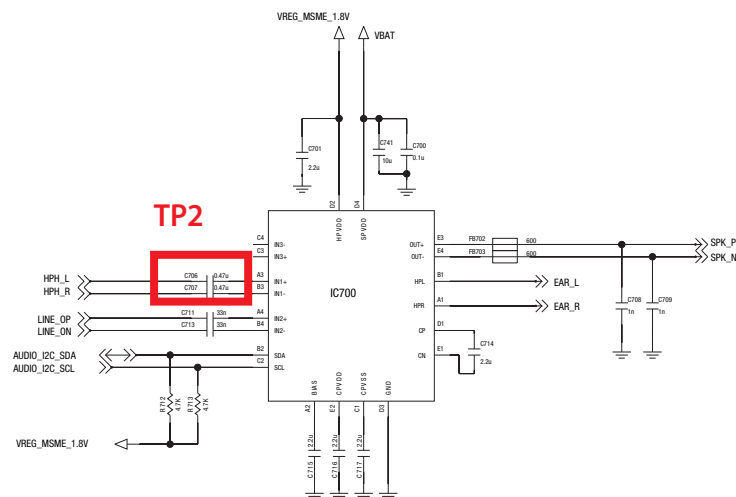
MSM7227A-1-AA HPH\_L / HPH\_R -> C706, C707(TP2) -> IC705 (TPA2055D3:Audio Subsystem) -> R710, R711 -> FB903, FB904(TP1) -> J900 (3.5pi Ear-jack)



## 3.5pi Ear Jack Connector

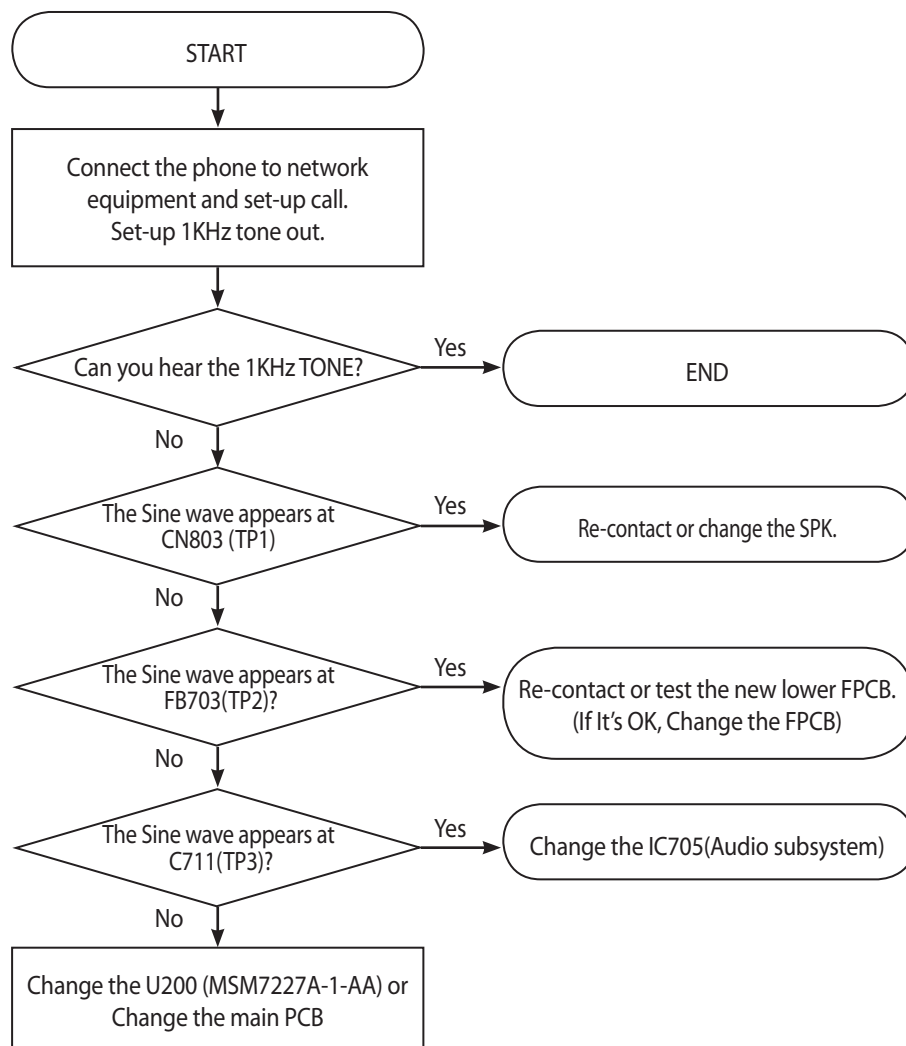


# Audio Sub System

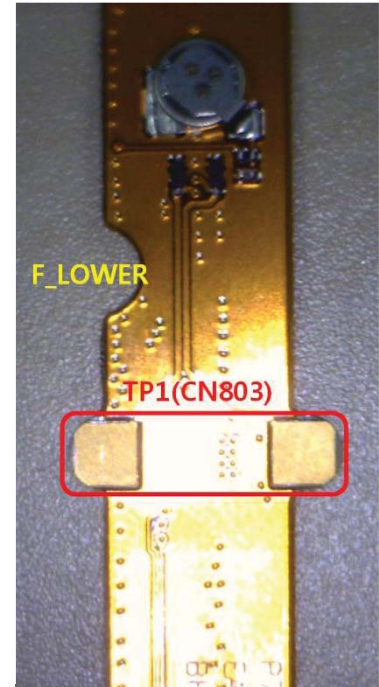
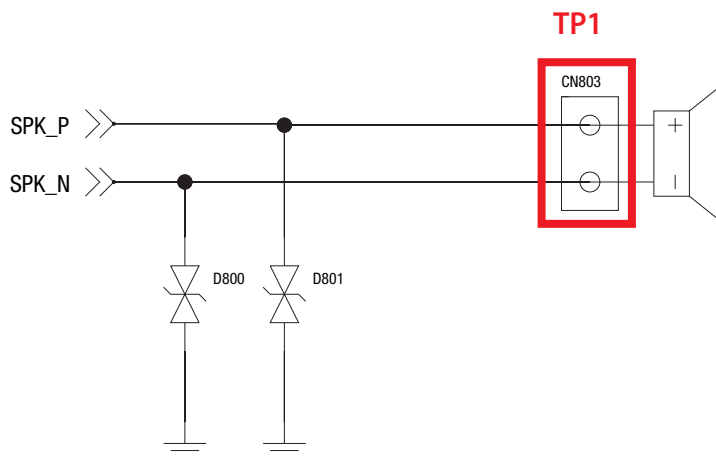


### 4.19.3 Speaker/Speaker Phone path

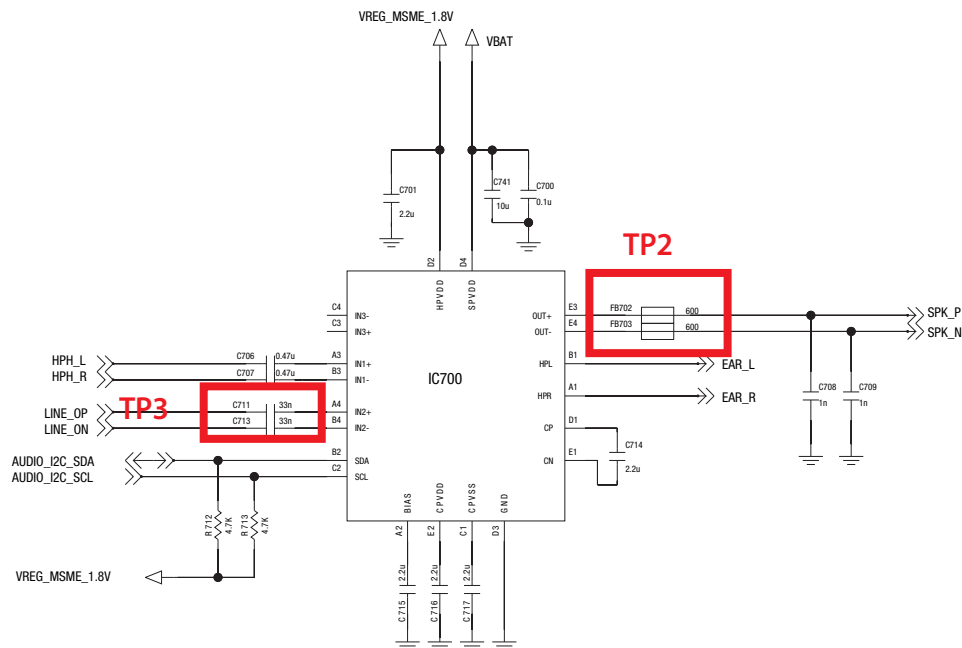
MSM7227A-1-AA LINE\_OP, LINE\_ON -> C711, C713(TP3) -> IC705 (TPA2055D3: Audio Subsystem) -> FB702, FB703(TP2)  
-> CN803(TP1)(SPK pad)

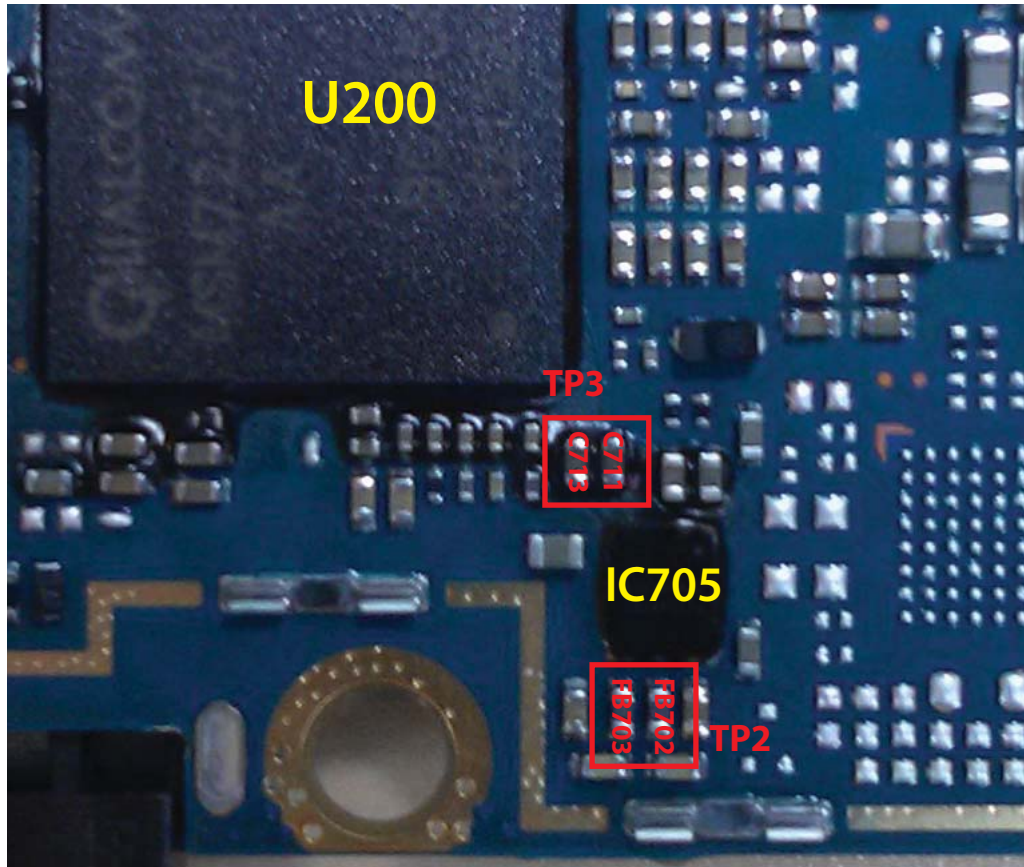


# SPEAKER



## Audio Sub System

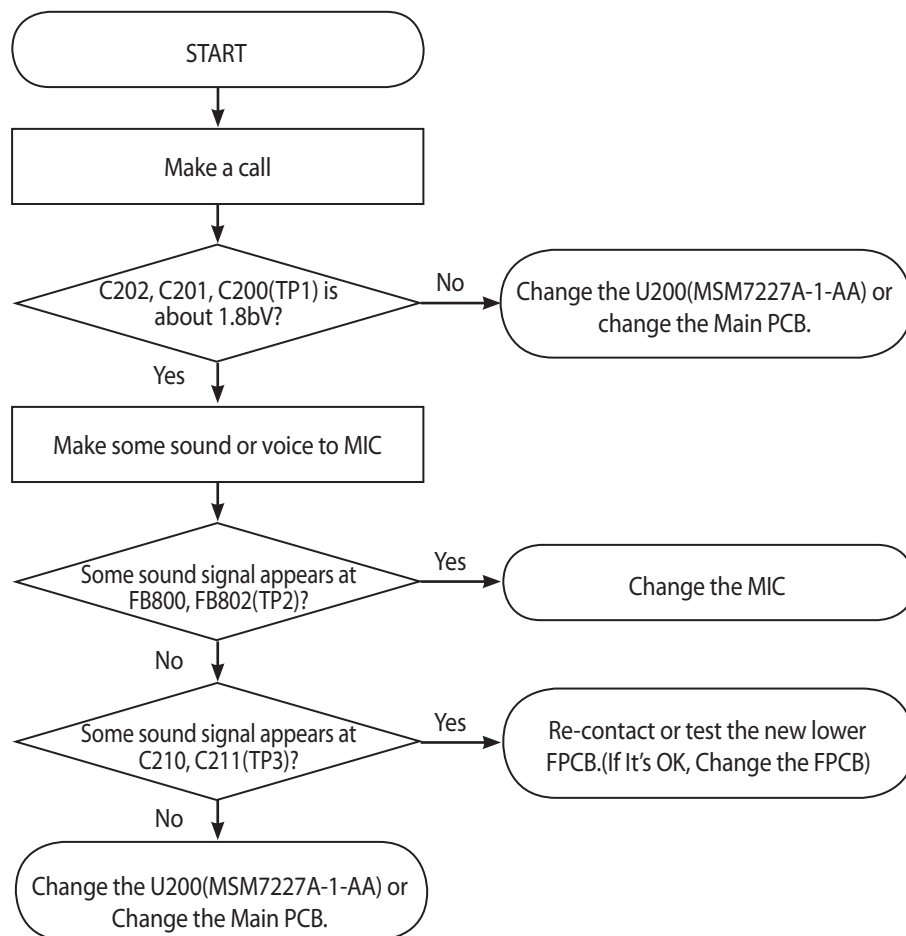


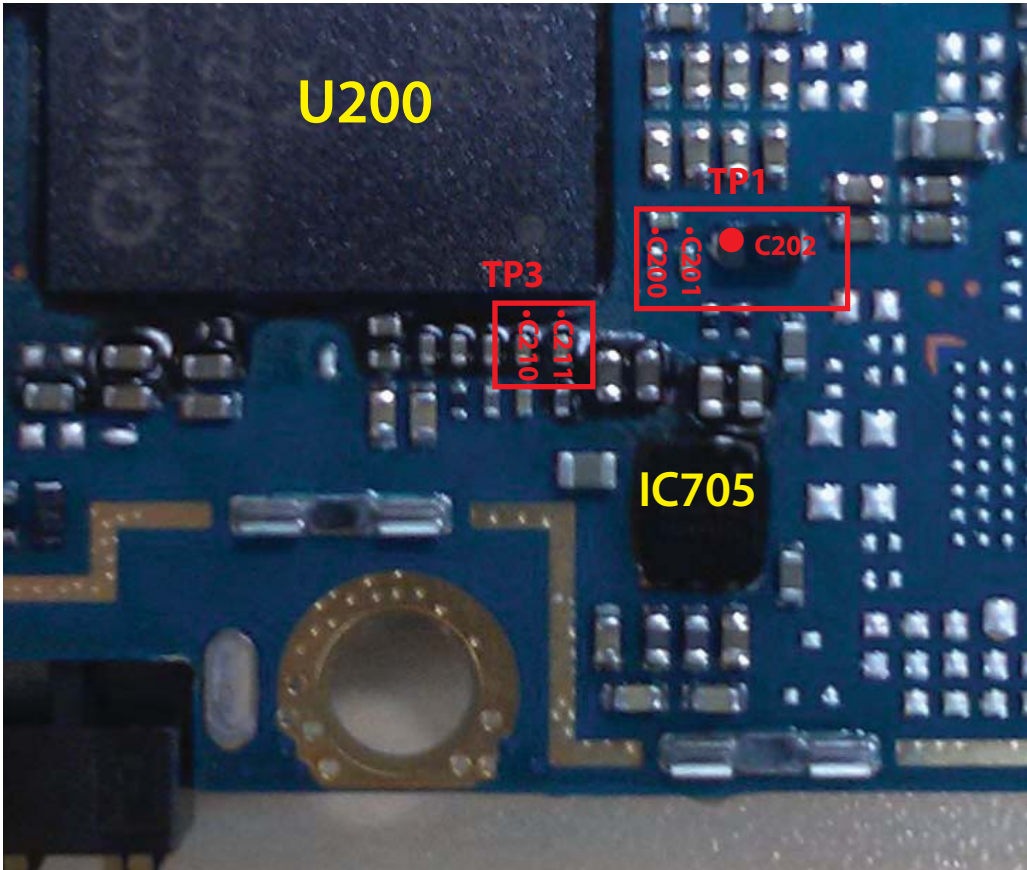


### 4.19.4 Main Microphone

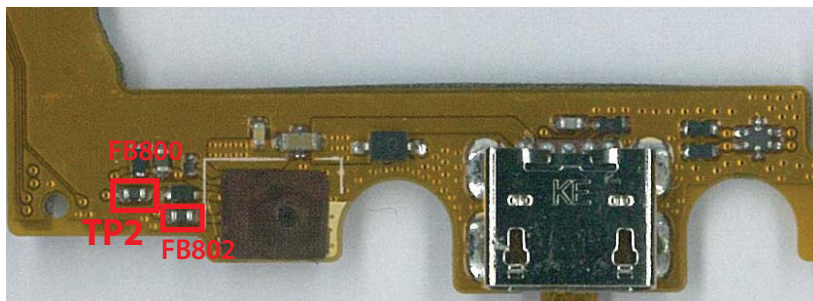
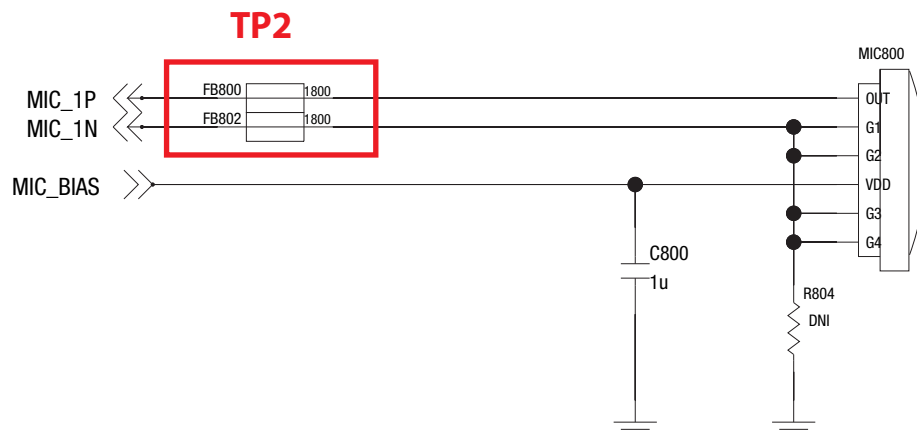
MIC Signal: MIC800 -> FB800, FB802(TP2) -> C211(TP3) MIC\_1P of MSM7227A-1-AA

MIC Bias: MSM7227A-1-AA MIC\_BIAS -> MIC800





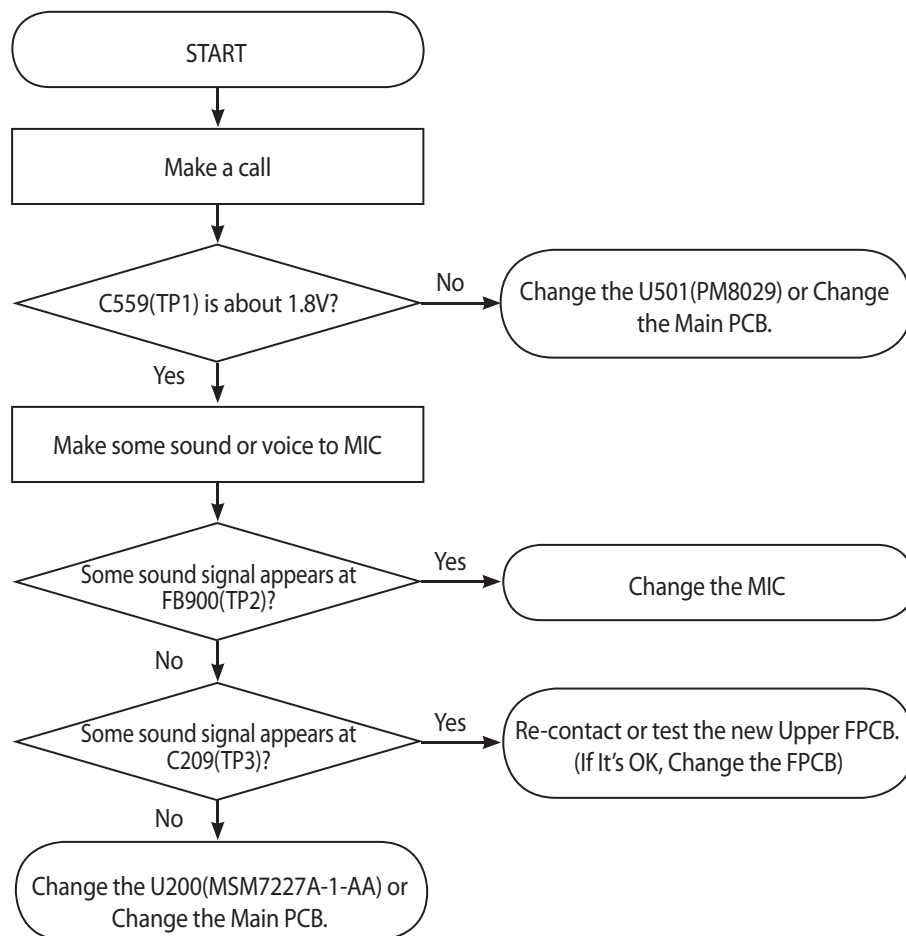
# MAIN MIC

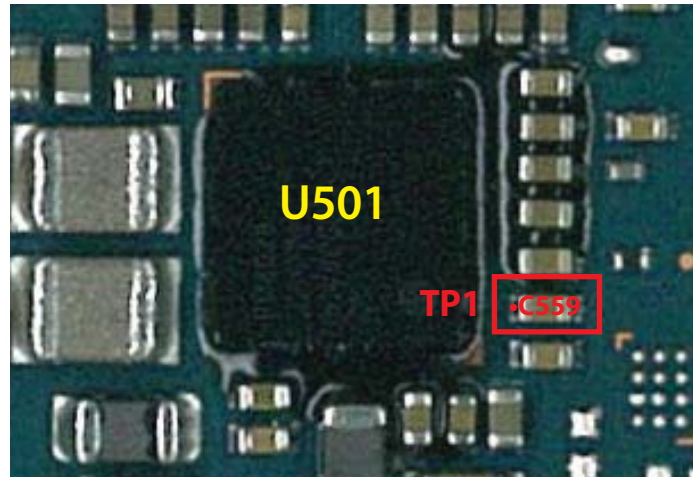
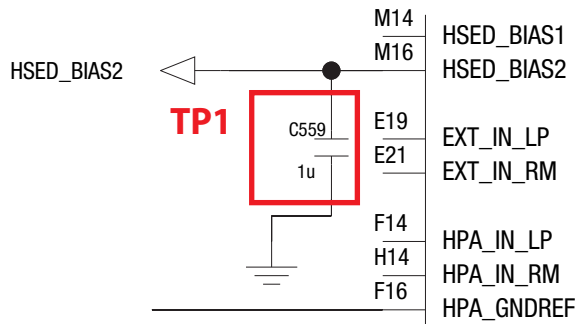


### 4.19.5 2nd Microphone

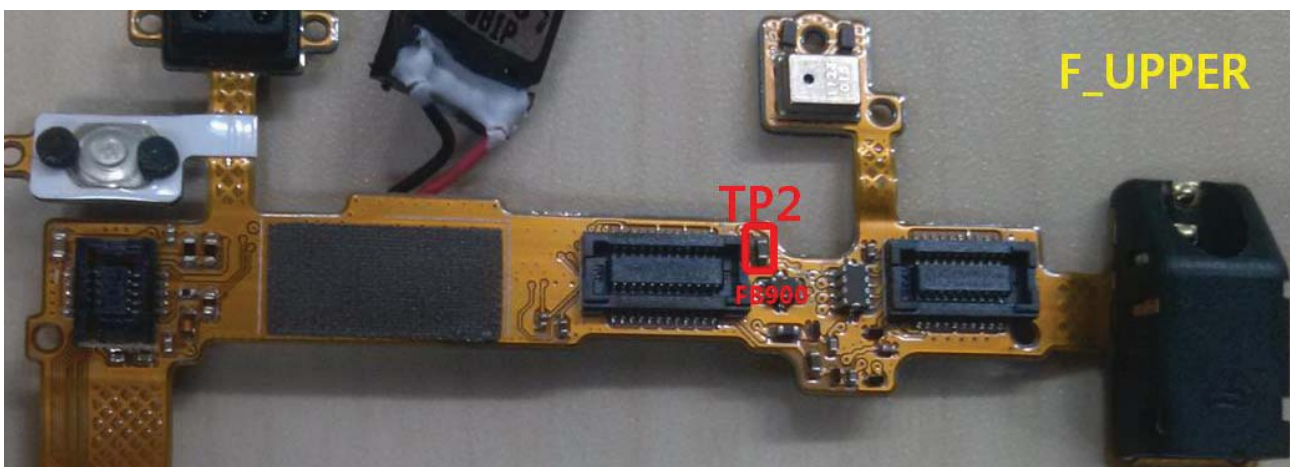
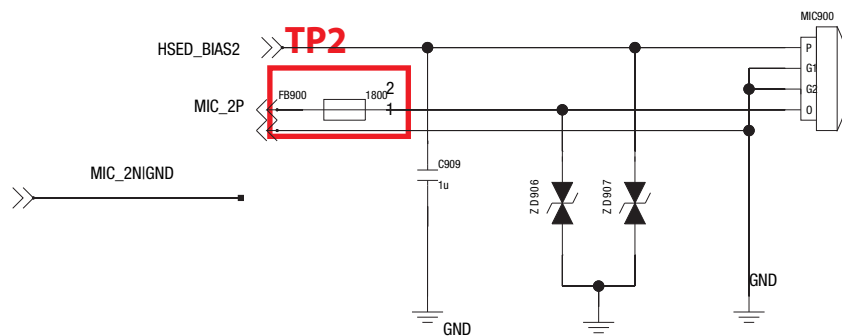
MIC Signal: MIC900 -> FB900, FB802(TP2) -> C209(TP3) MIC\_2P(AUXIP) of MSM7227A-1-AA

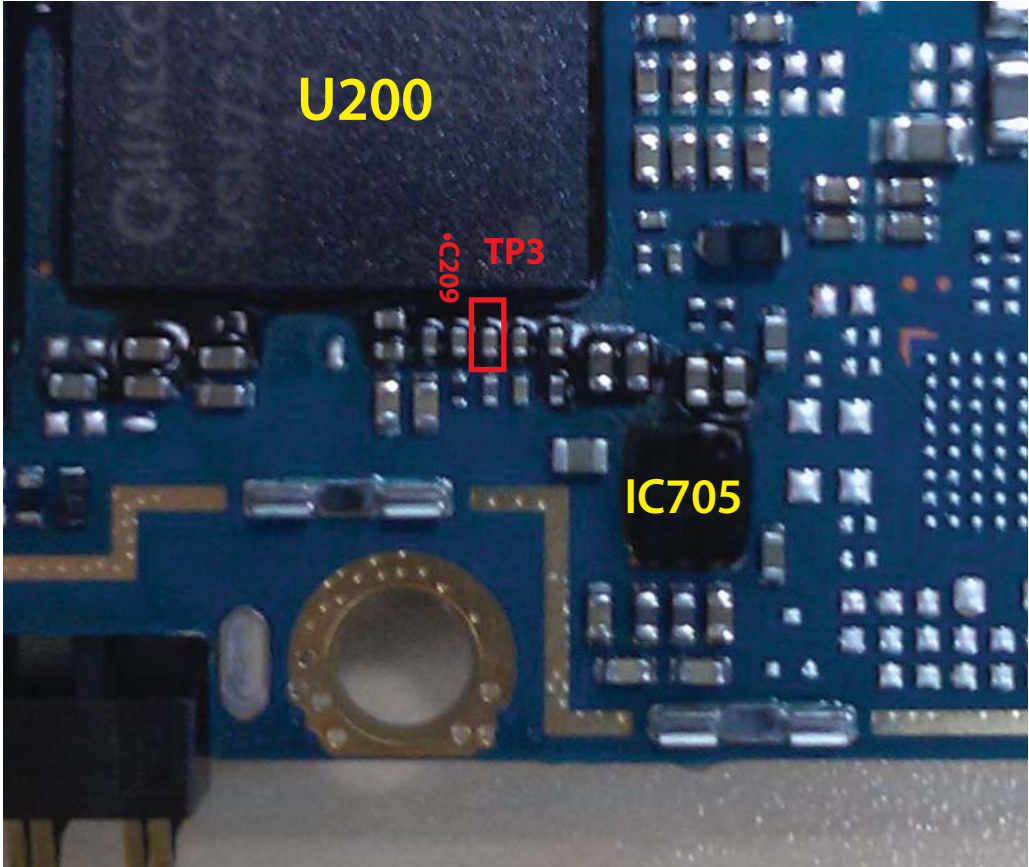
MIC Bias: PM8029 HSED\_BIAS2 -> MIC900





## 2nd MIC



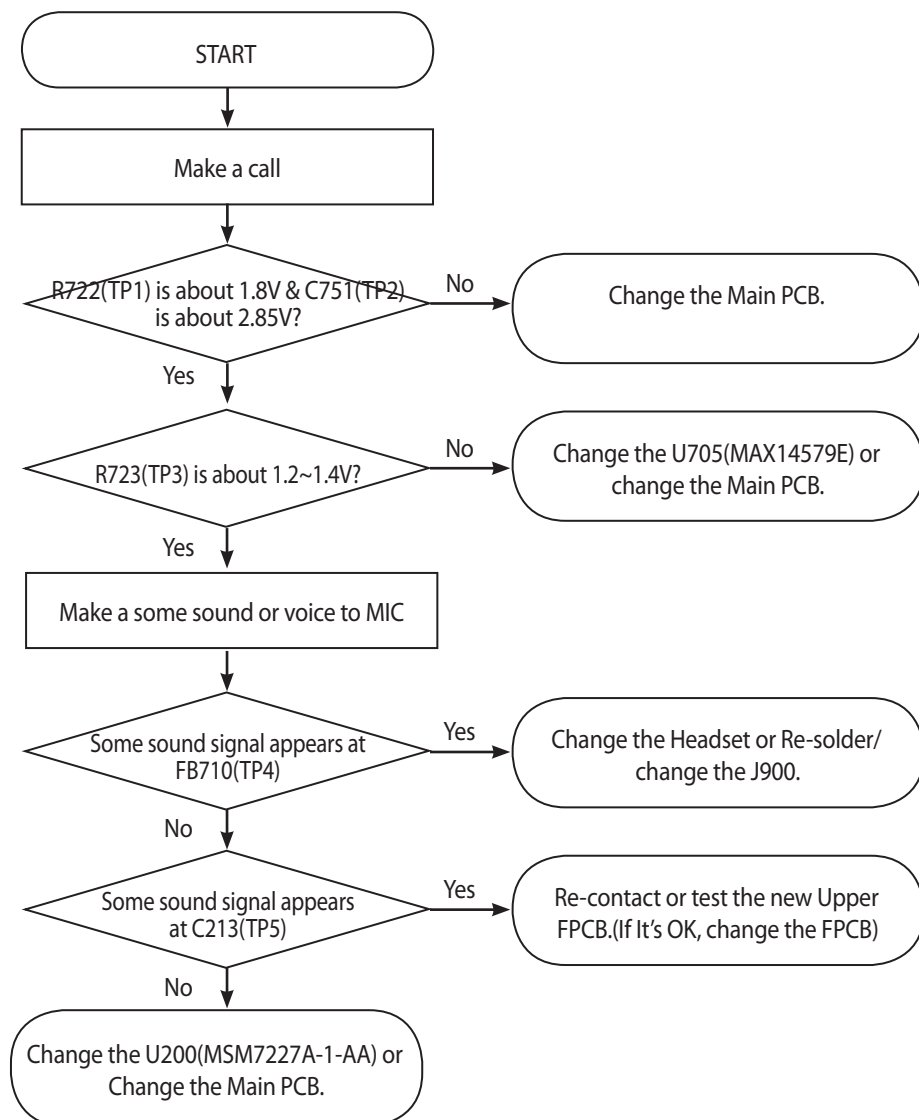


### 4.19.6 Headset mic ophone

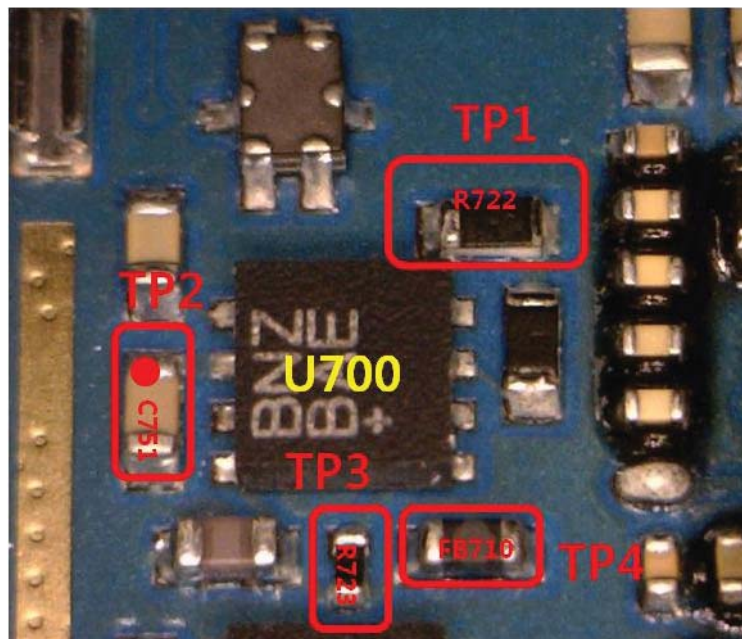
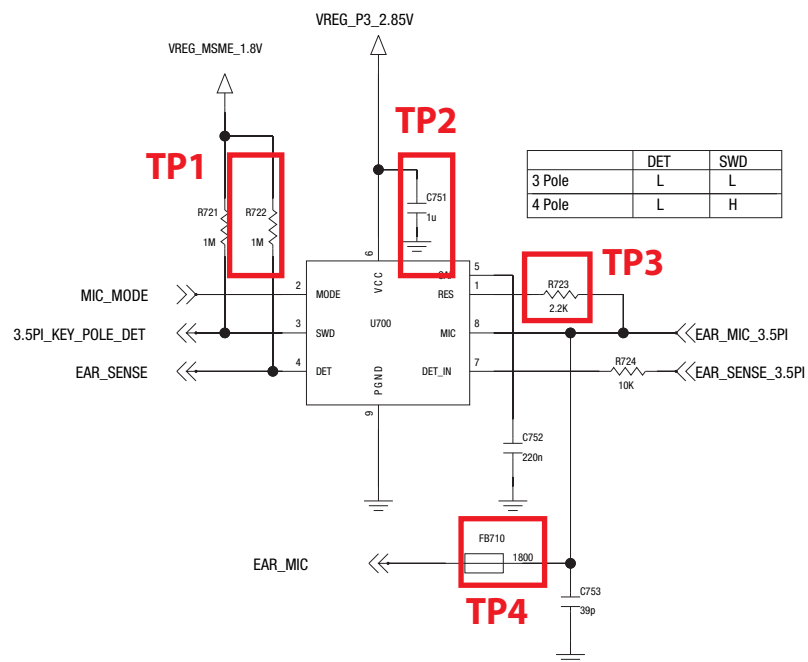
MIC Signal: 3.5 pi Headset (J900) → FB710(TP4) → C213(TP4) EAR\_MIC(MIC2P) of MSM7227A-1-AA

MIC Bias : VREG\_MSME\_1.8V → R722 (**TP1**) (DET) → R723(TP3)(RES) -> Headset MIC

HS Detect IC Bias: VREG\_P3\_2.85V



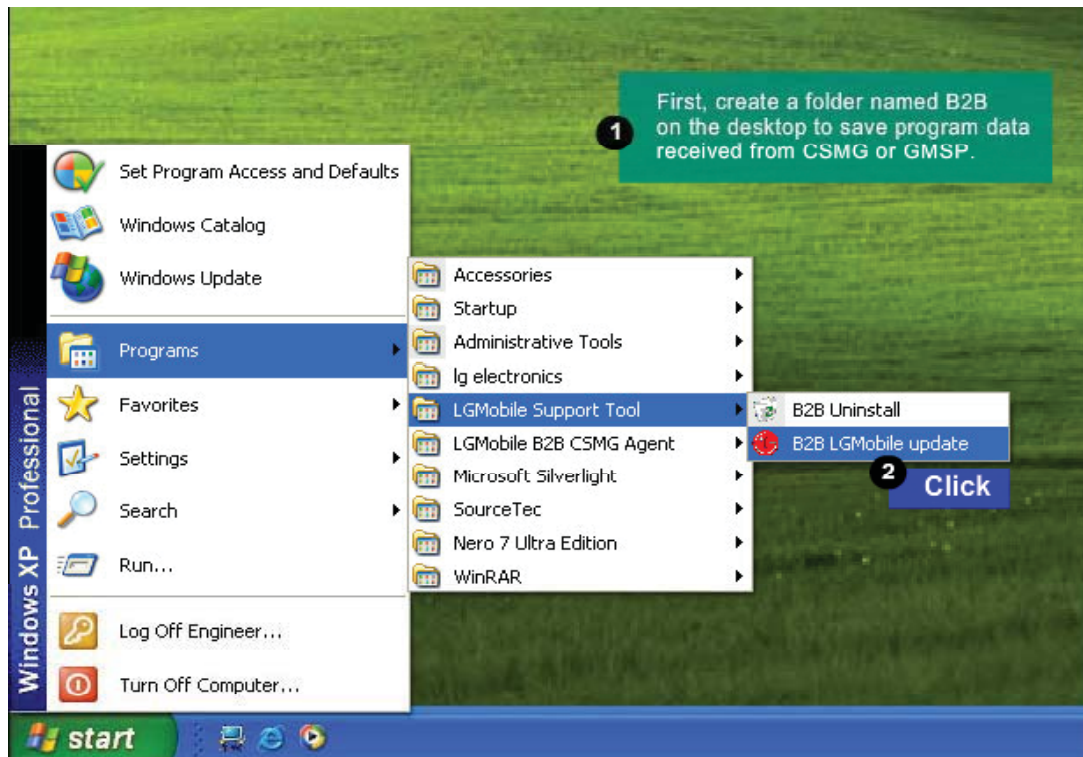
# HEADSET\_DETECT



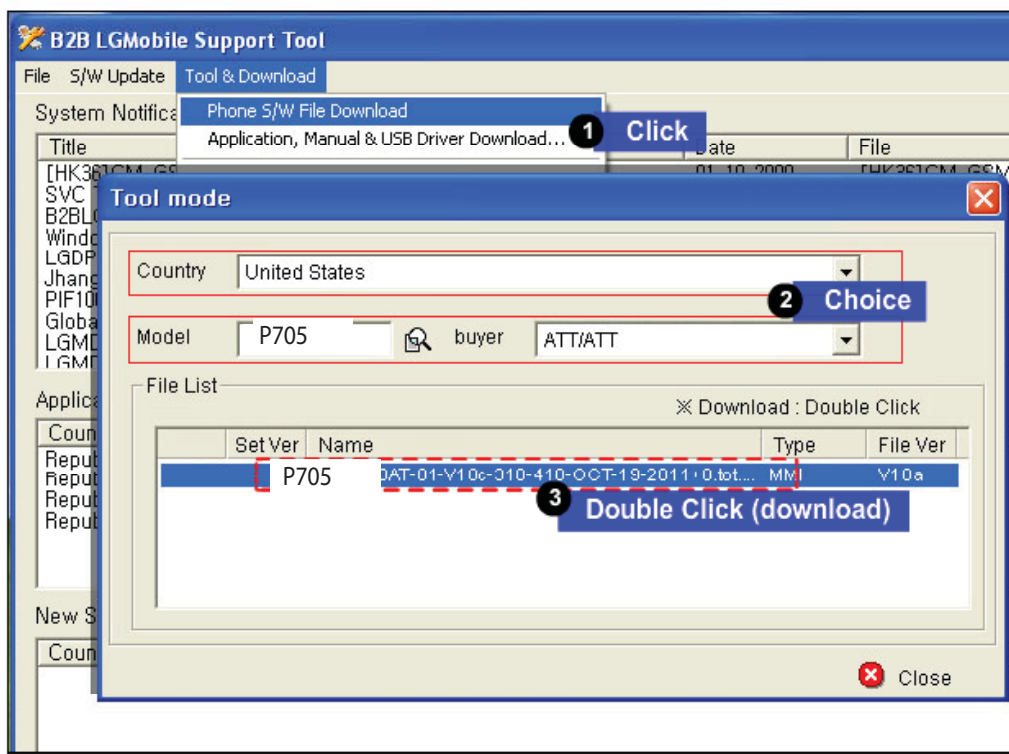
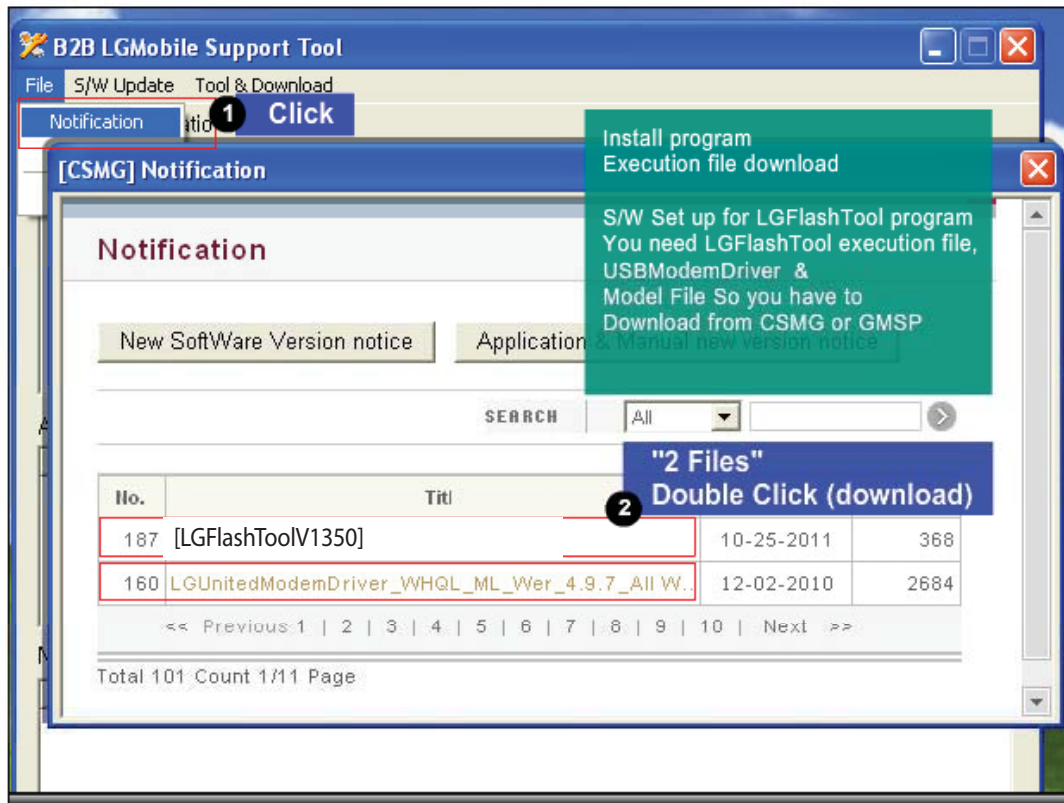


## 5. DOWNLOAD

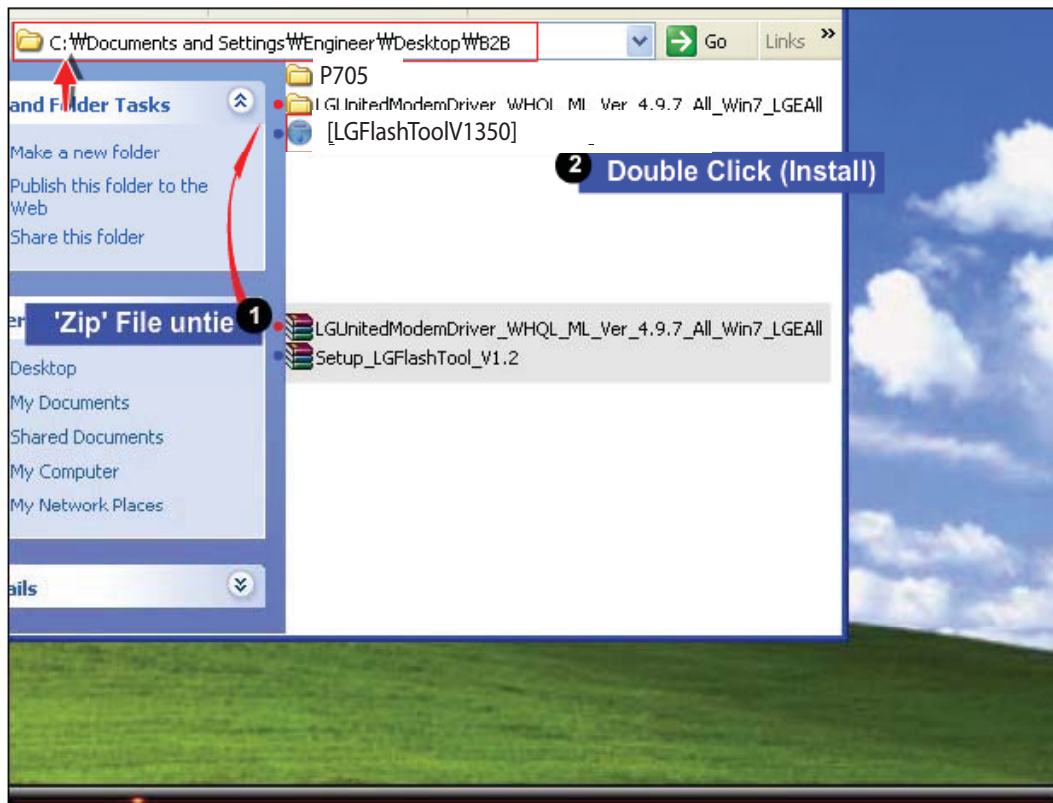
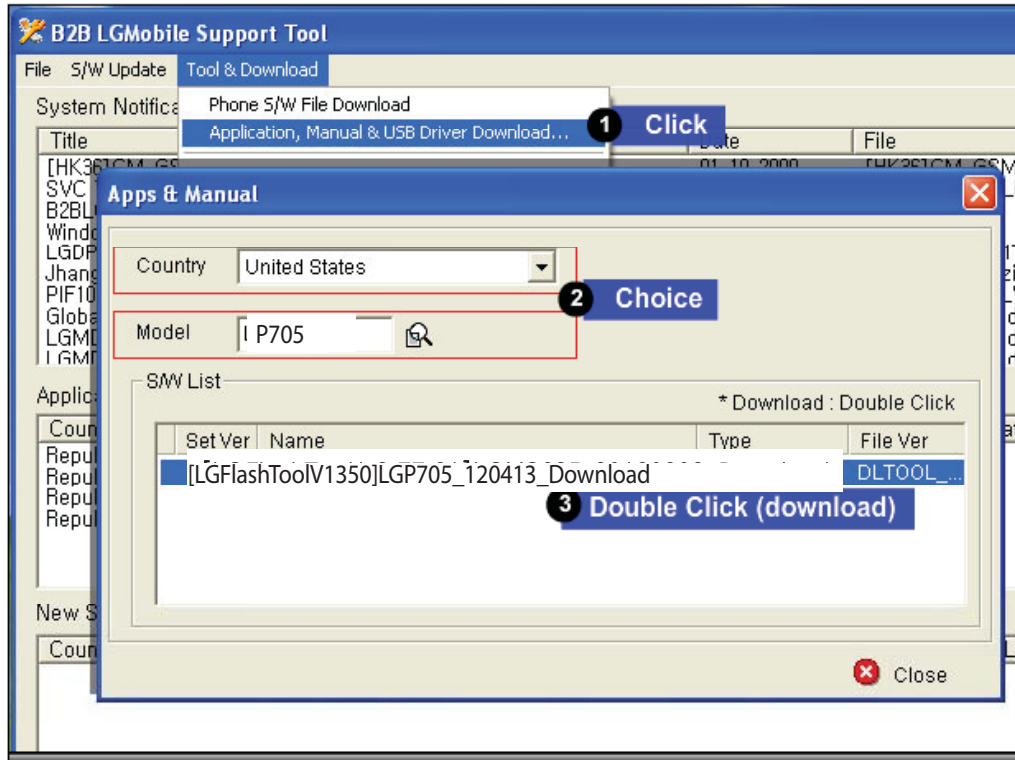
| TOOL INFORMATION                        |                                              |                                                                   |
|-----------------------------------------|----------------------------------------------|-------------------------------------------------------------------|
| TOOL VERSION                            | DLL NAME                                     | USB DRIVER                                                        |
| [LGFlashToolV1350]                      | [LGFlashToolV1350]LGP705_120413_<br>Download | LG United Mobile Driver Version 3.6 Package Release<br>2011.11.01 |
| Please check the final version to "B2B" |                                              |                                                                   |
| H/W                                     |                                              |                                                                   |
|                                         | Name                                         | Part No.                                                          |
| D/L Cable                               | Micro 5P (56-open-910K) USB DLC              | RAD32167835                                                       |



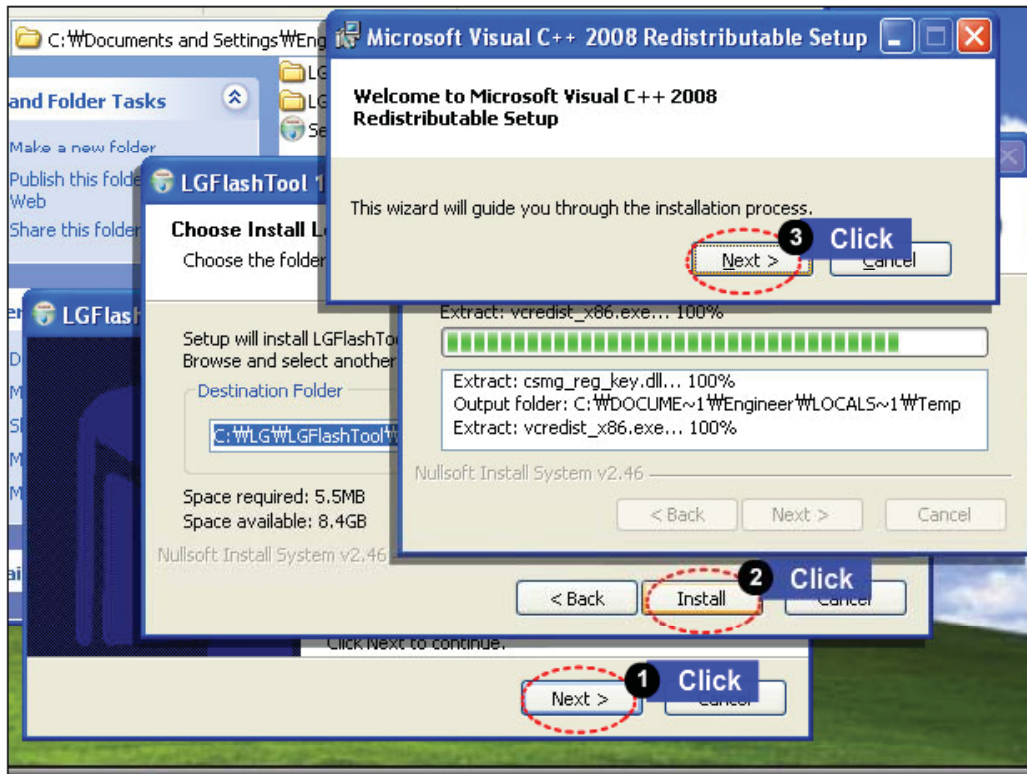
## 5. DOWNLOAD



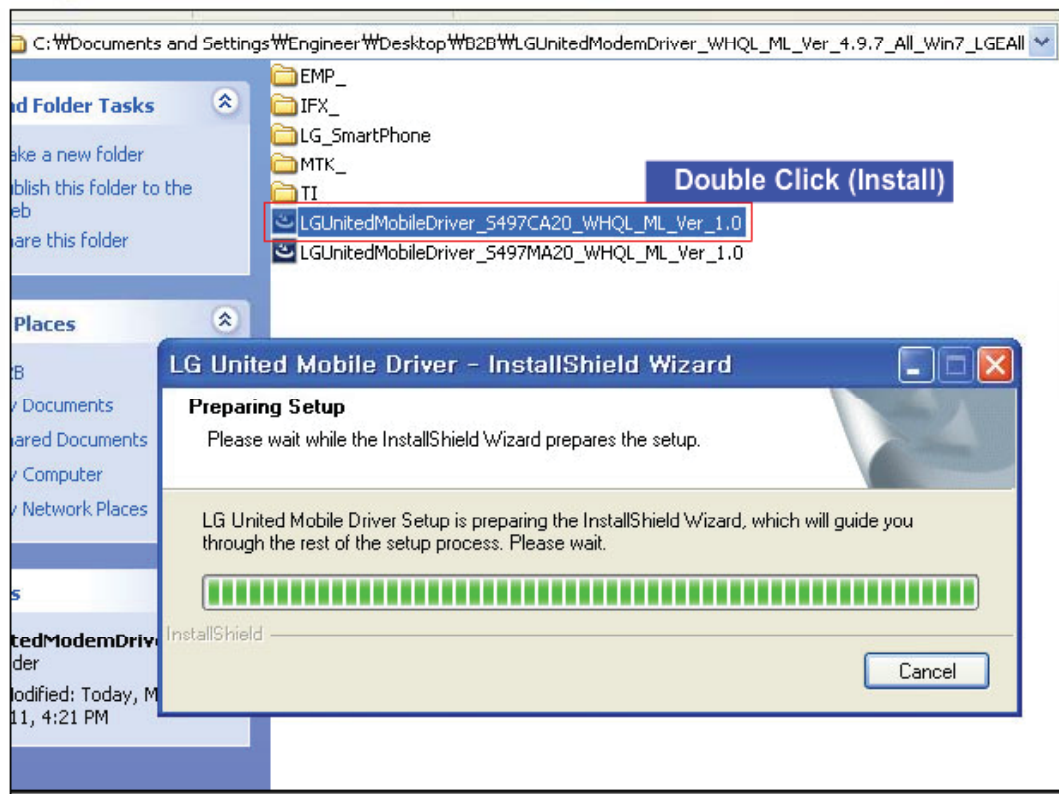
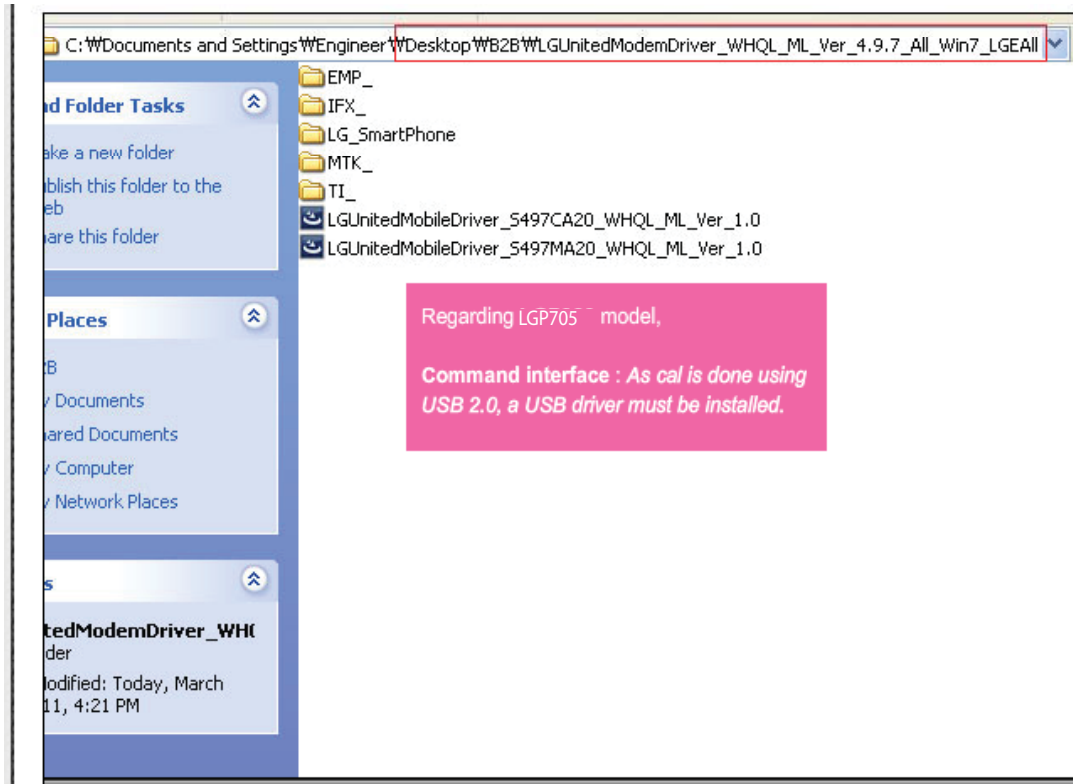
## 5. DOWNLOAD

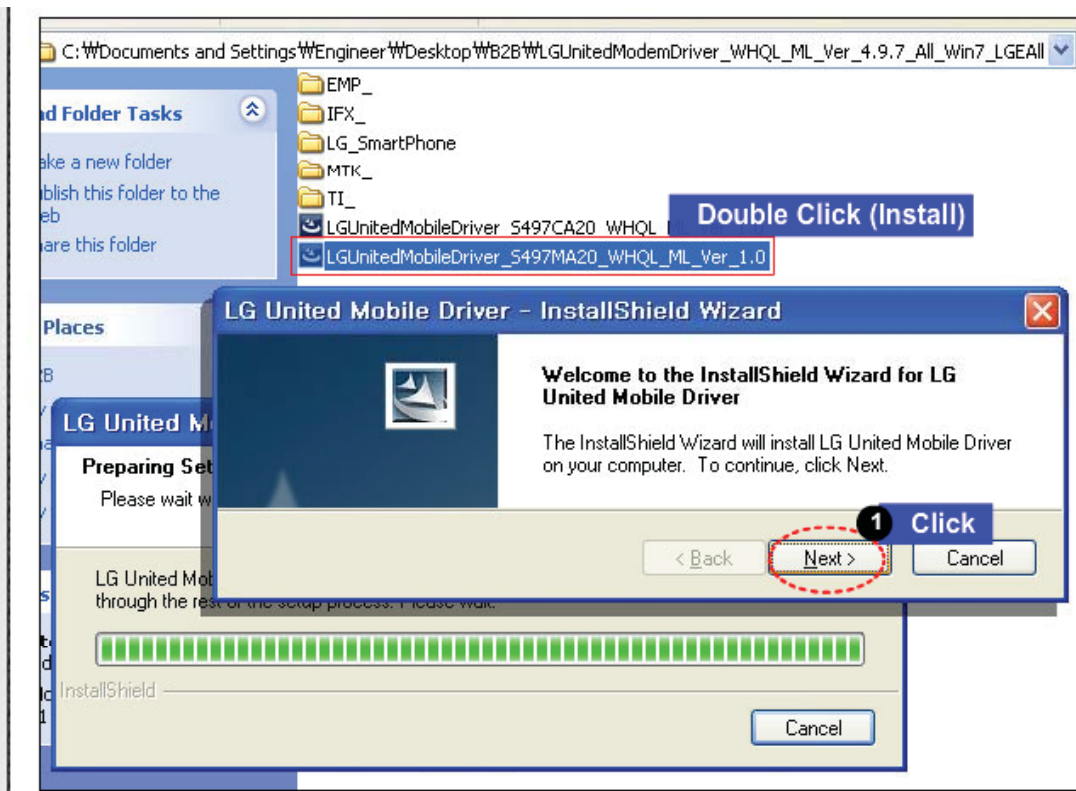
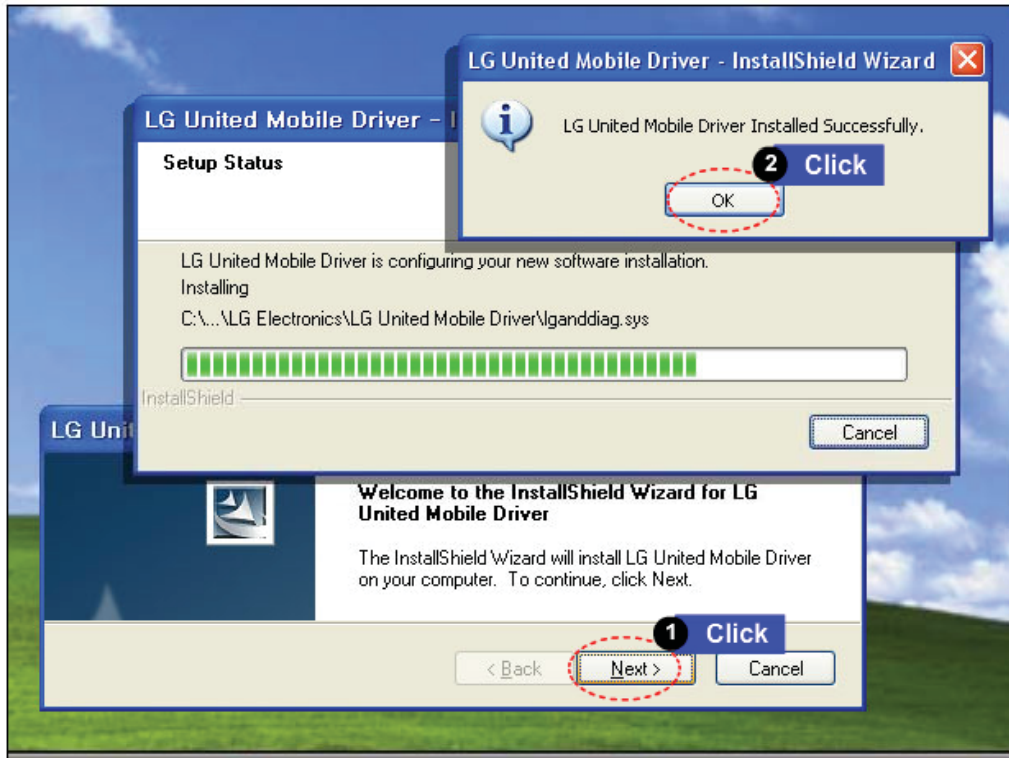


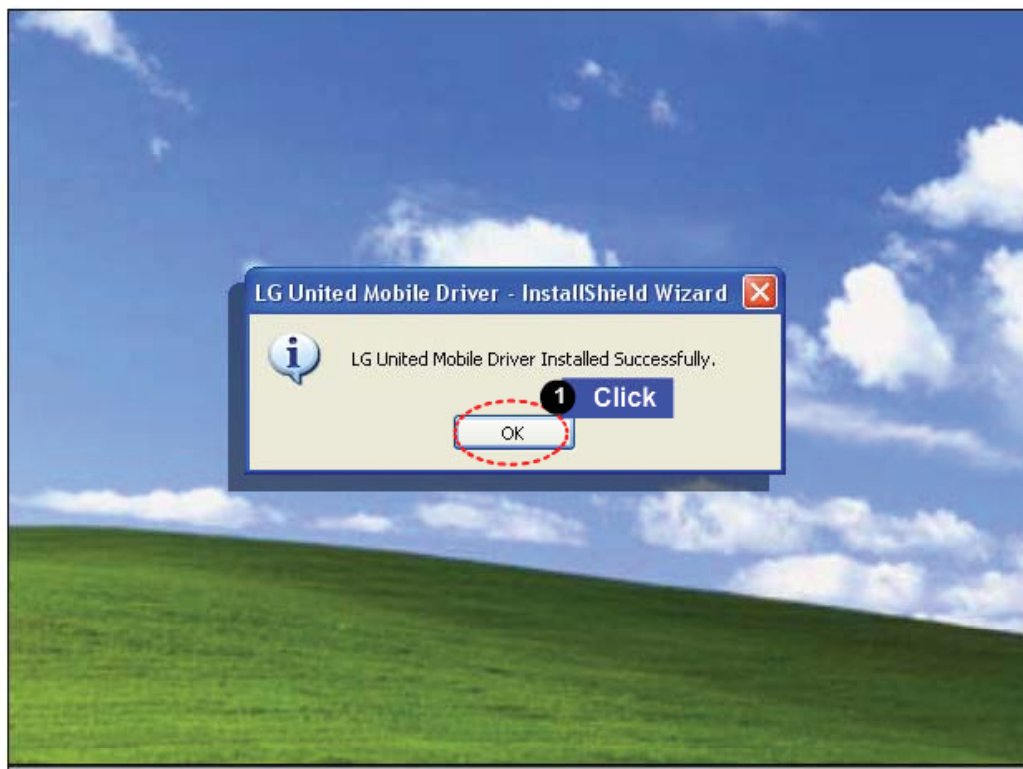
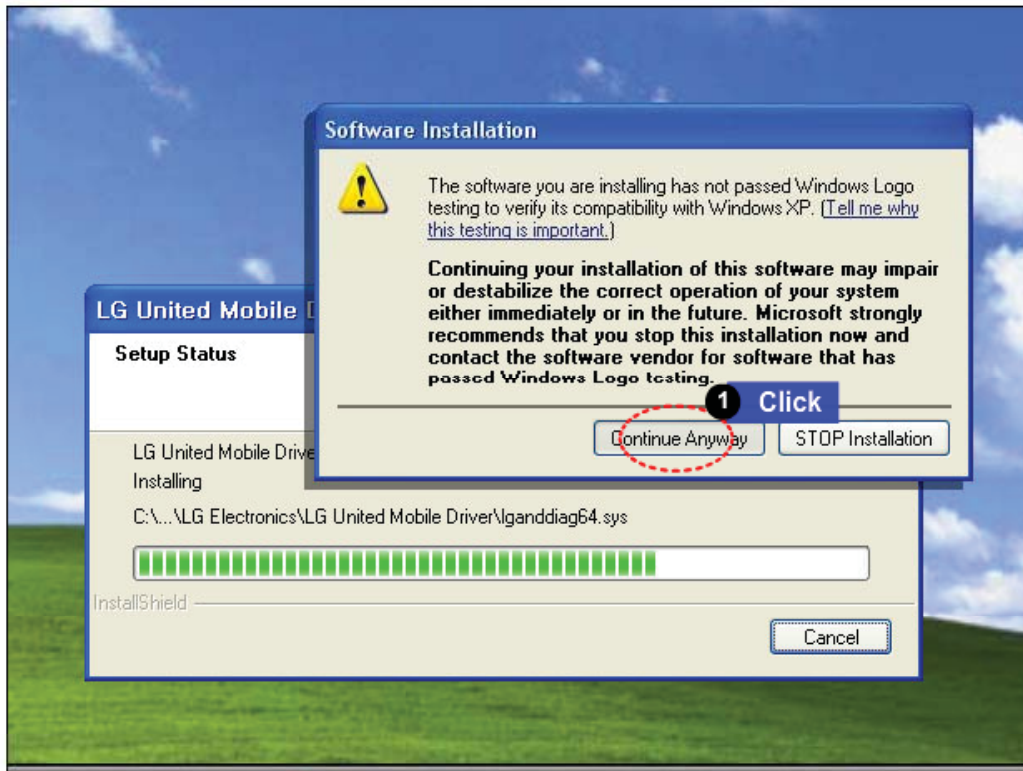
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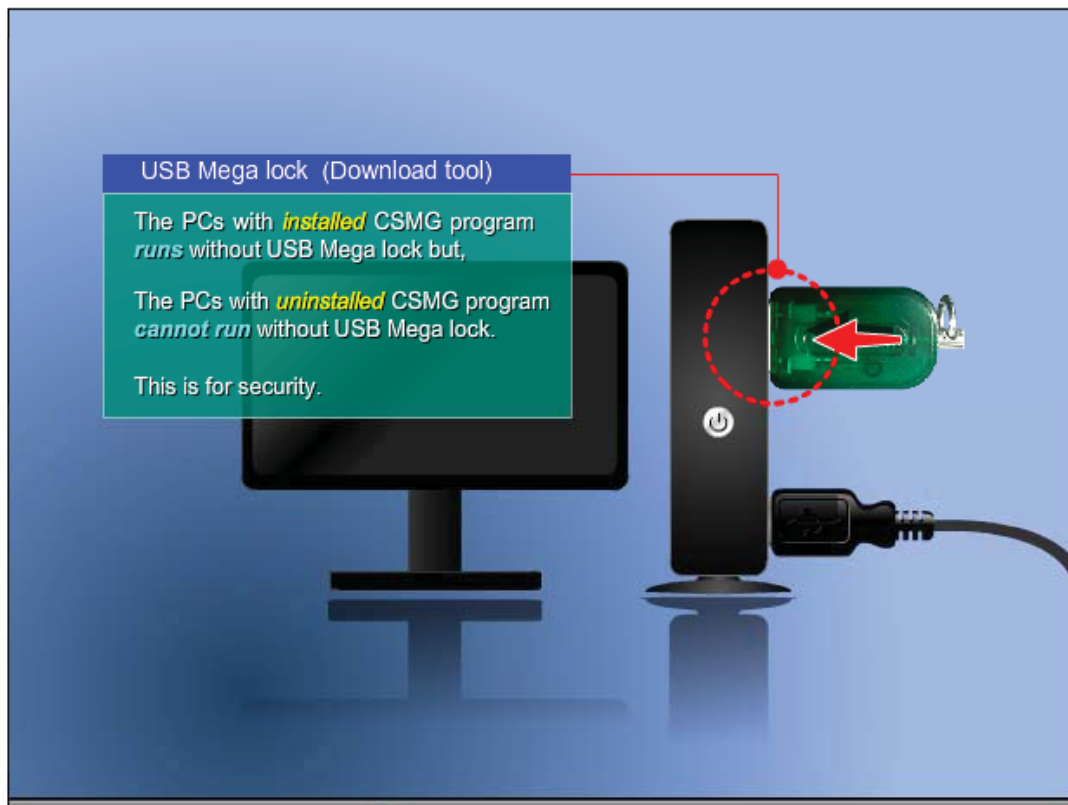
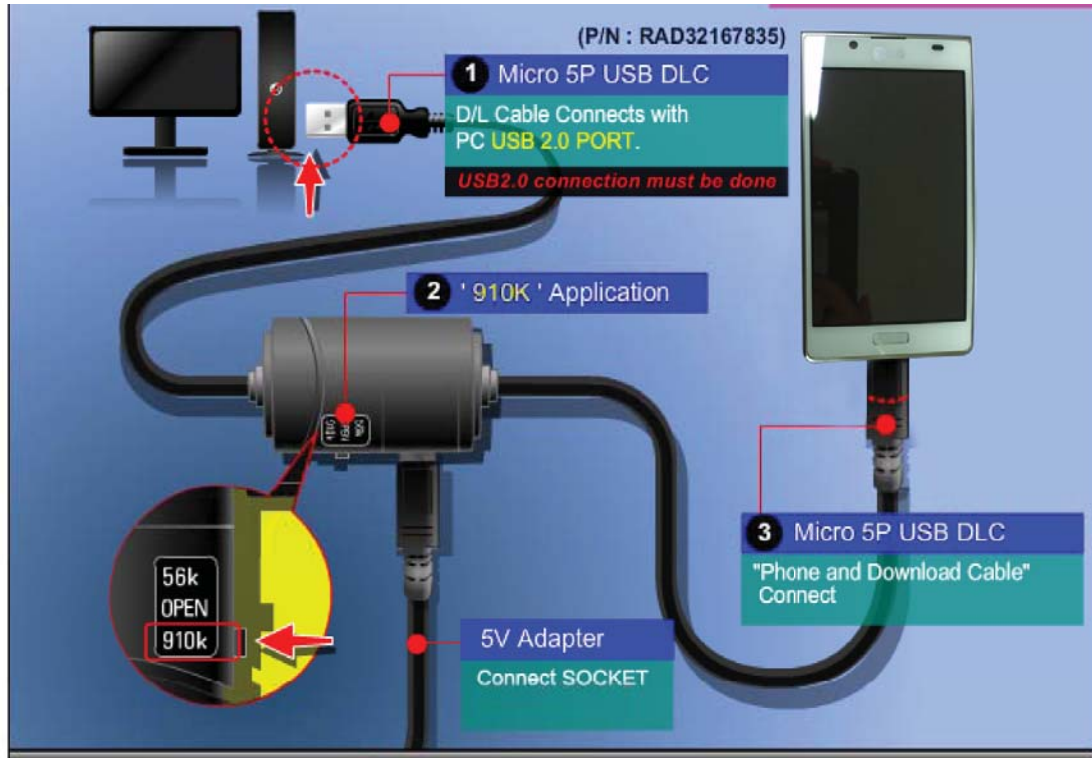
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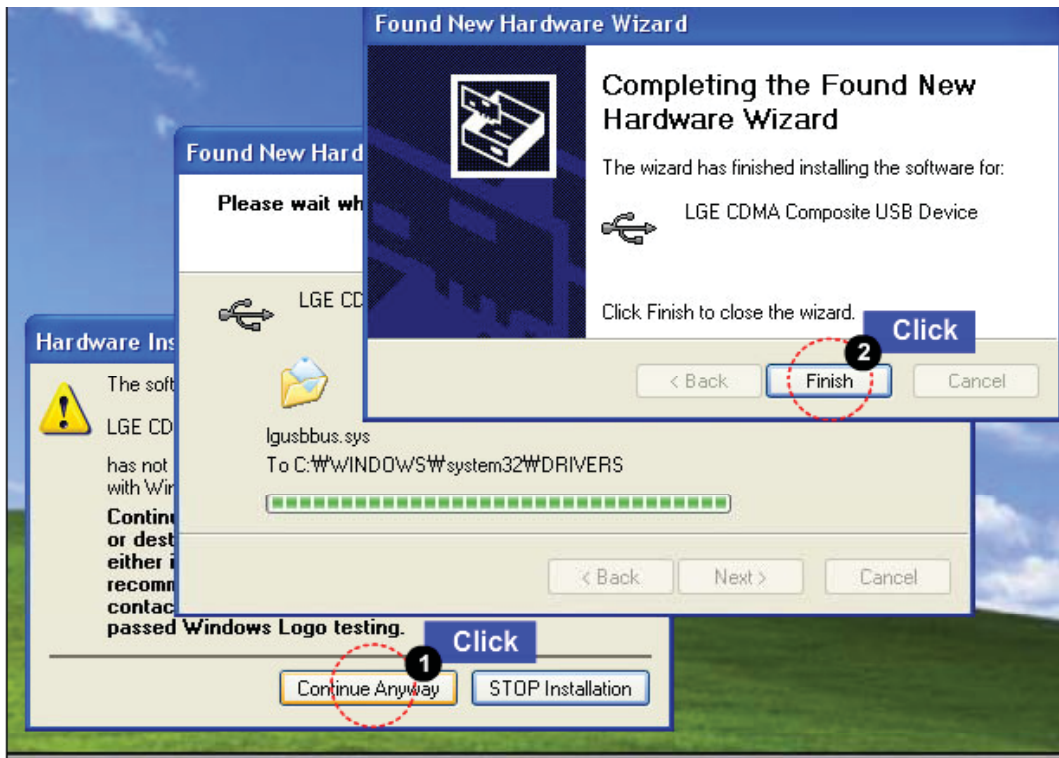
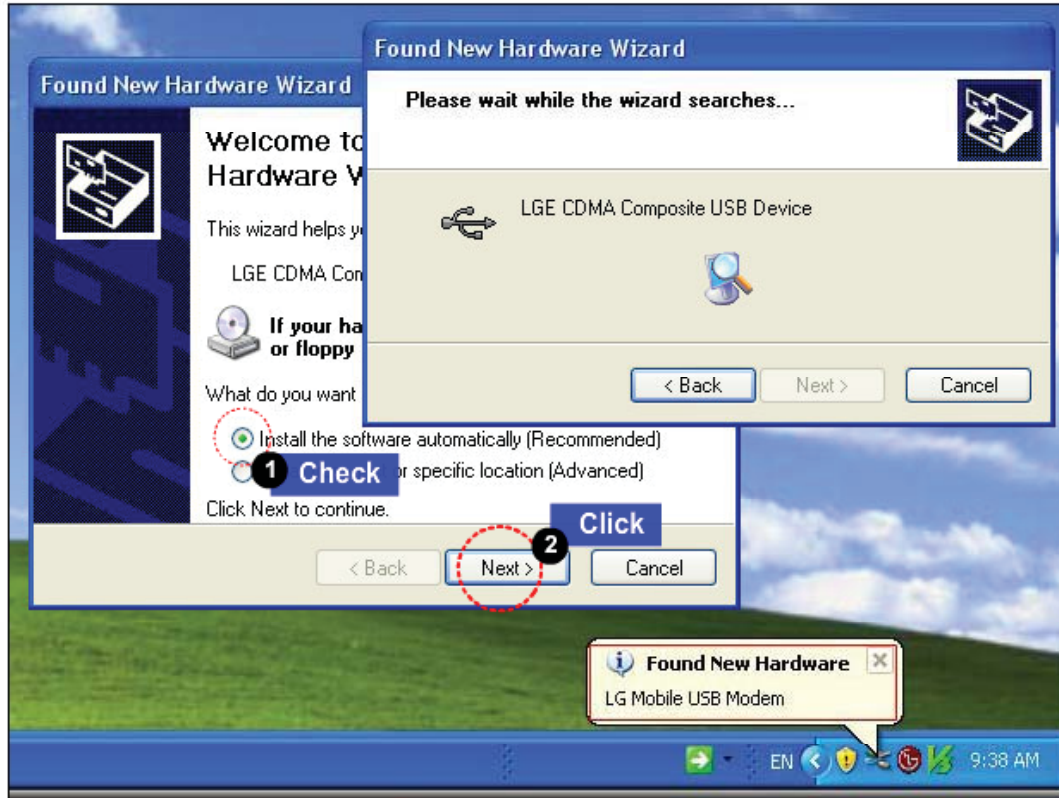




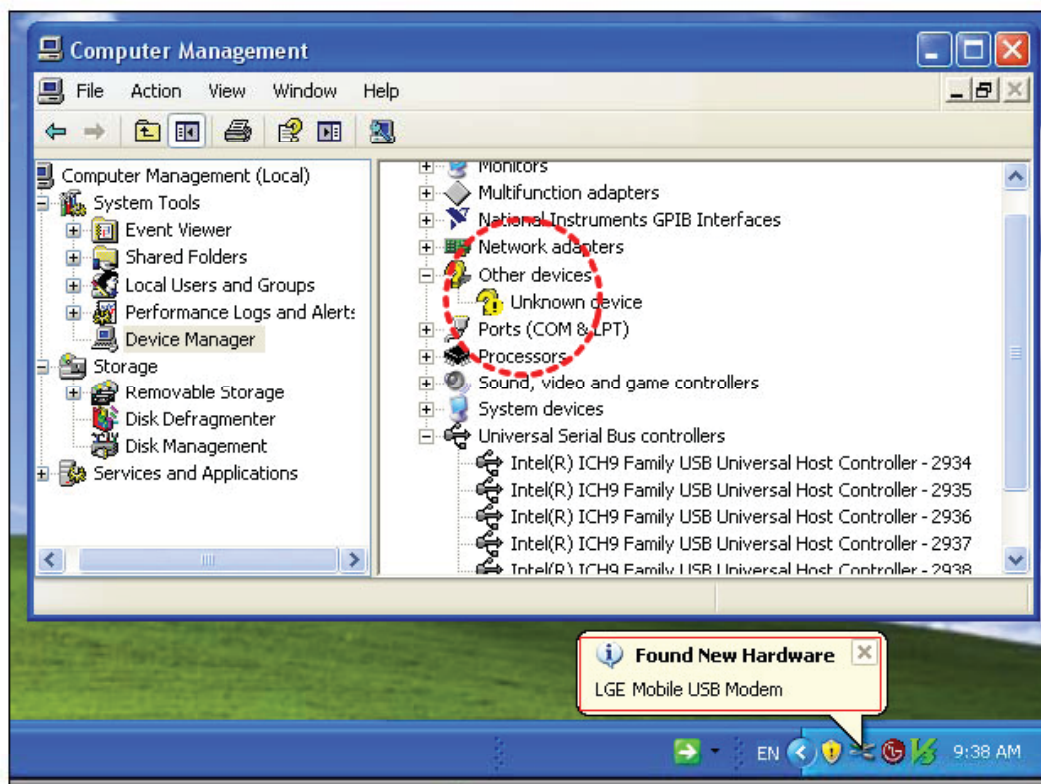
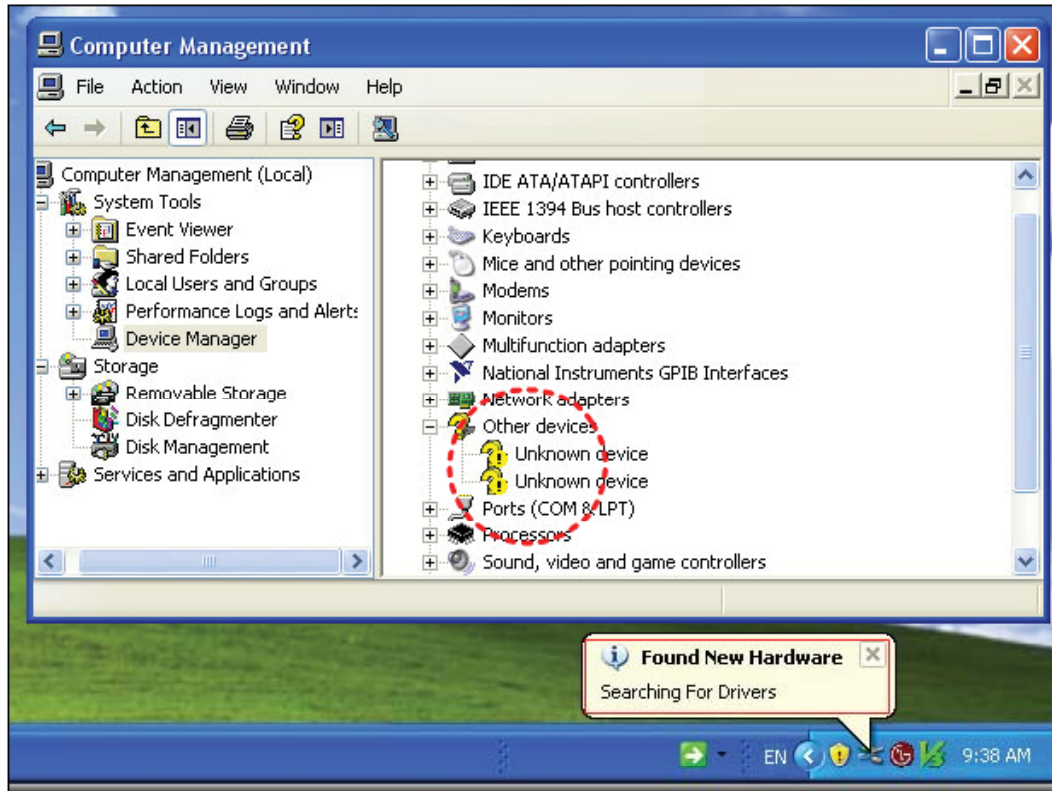


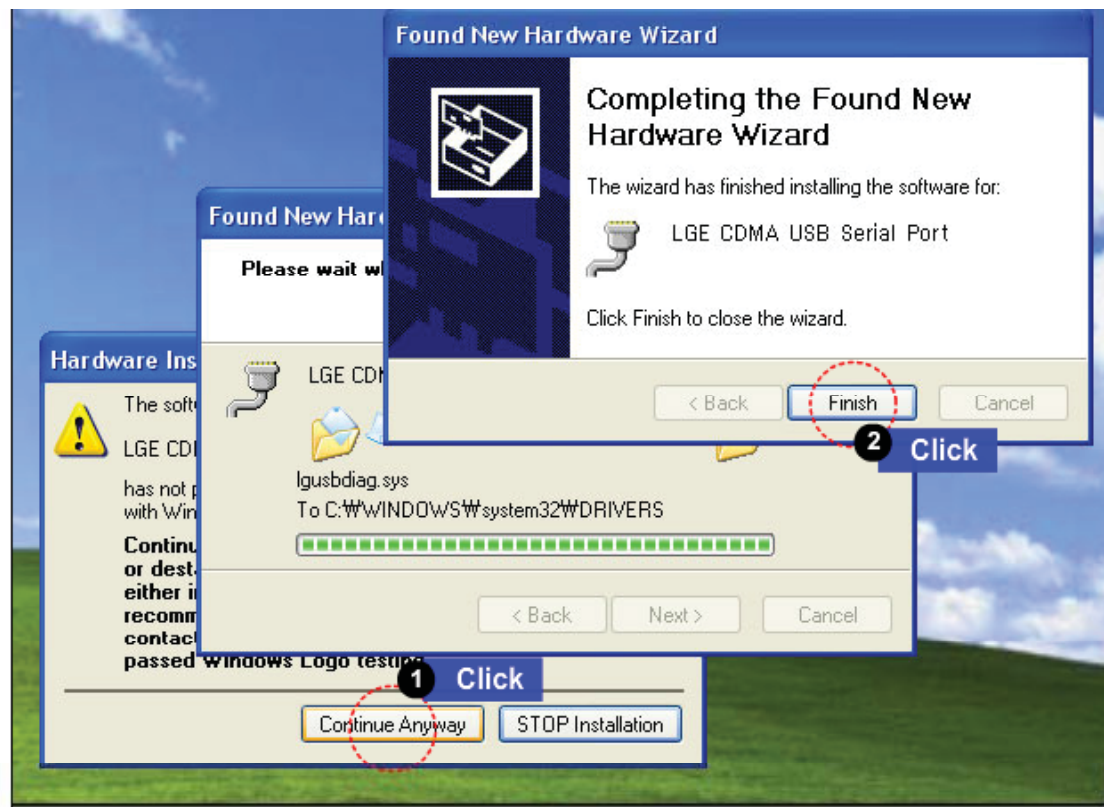
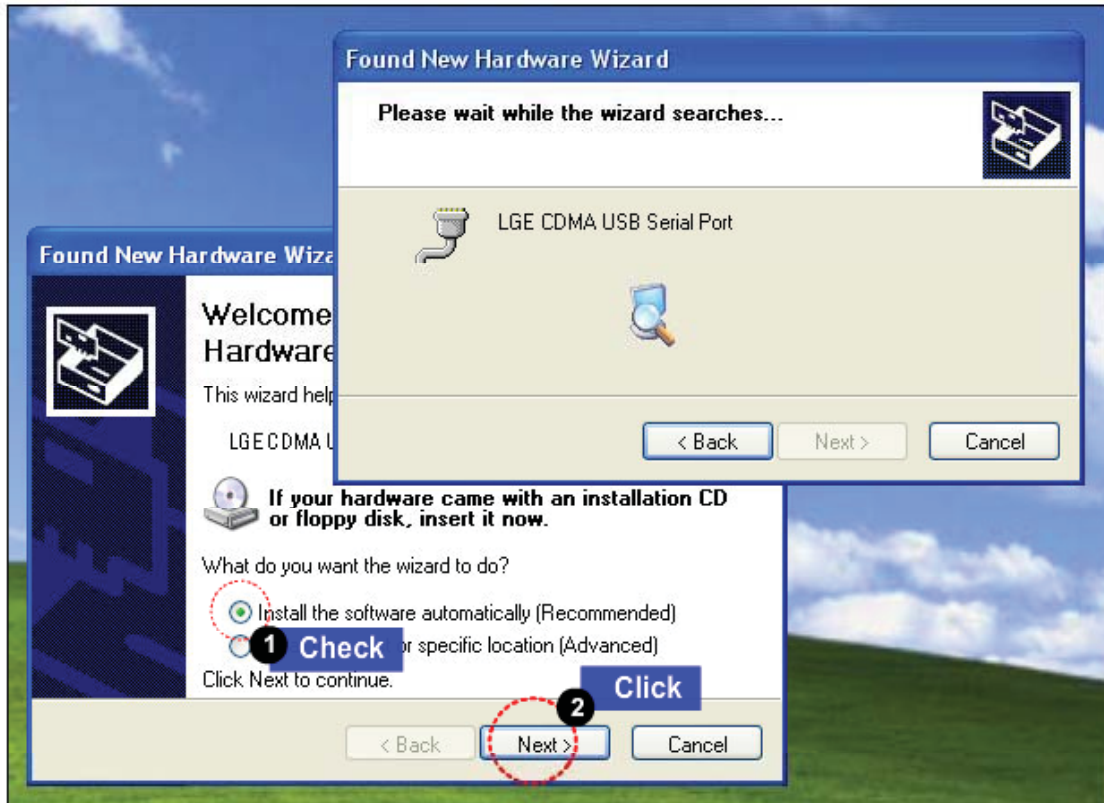
## 5. DOWNLOAD



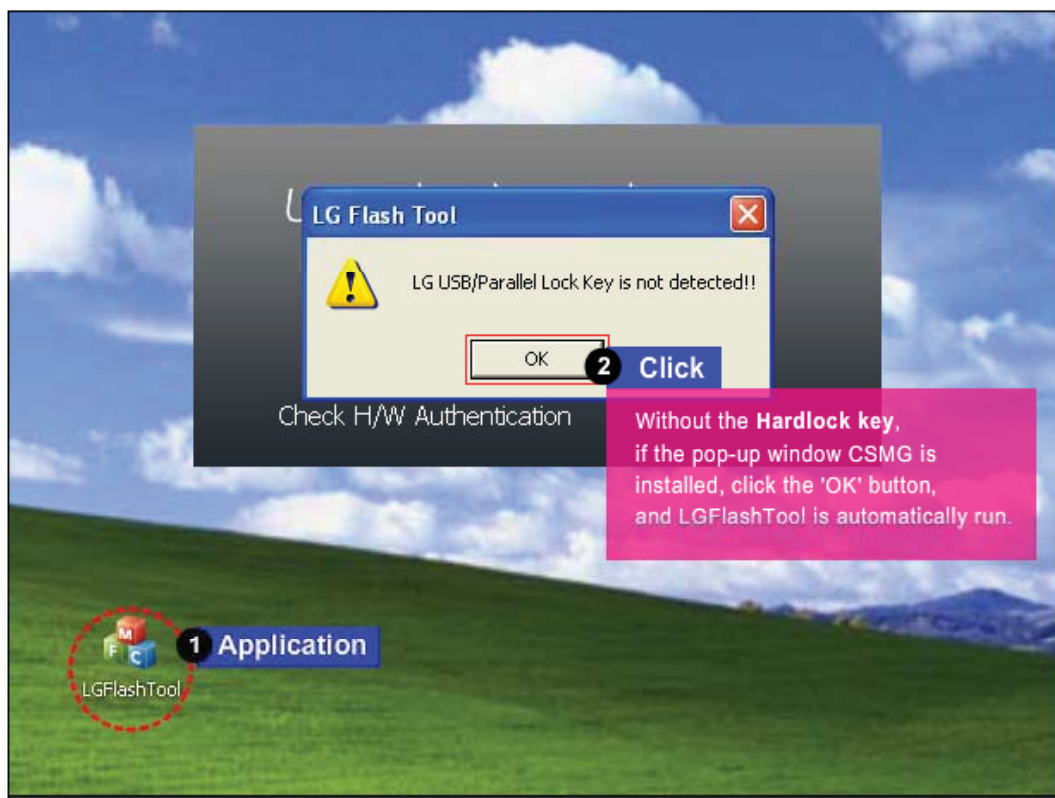
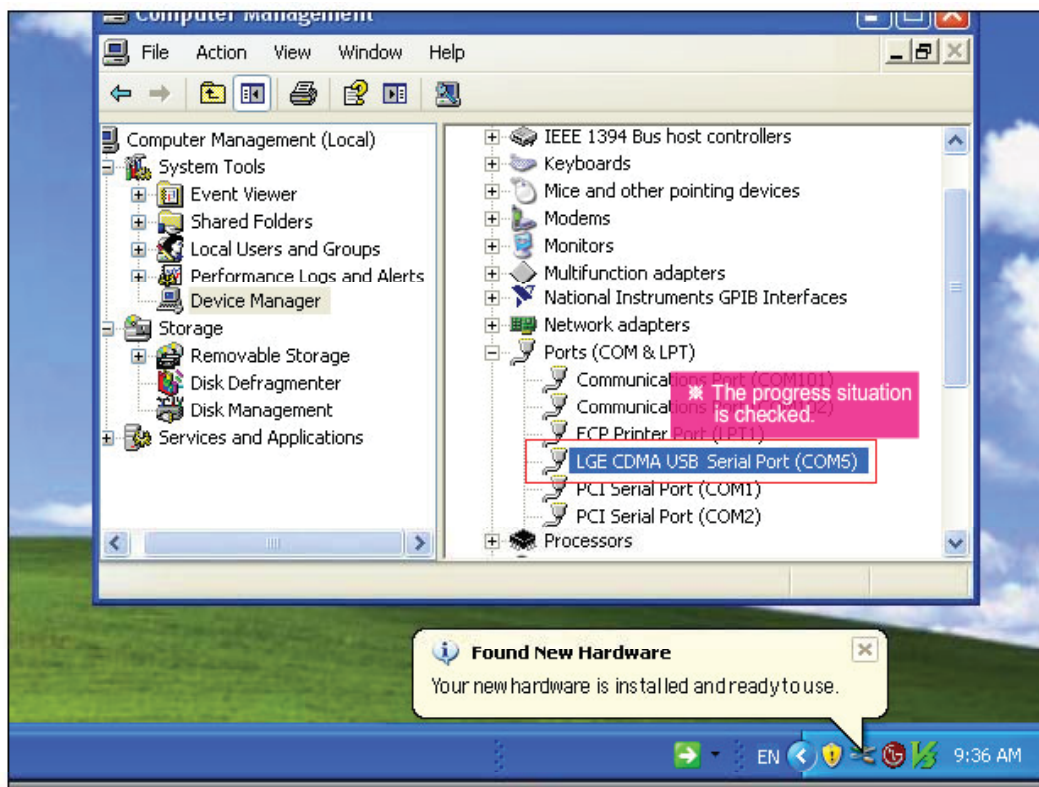


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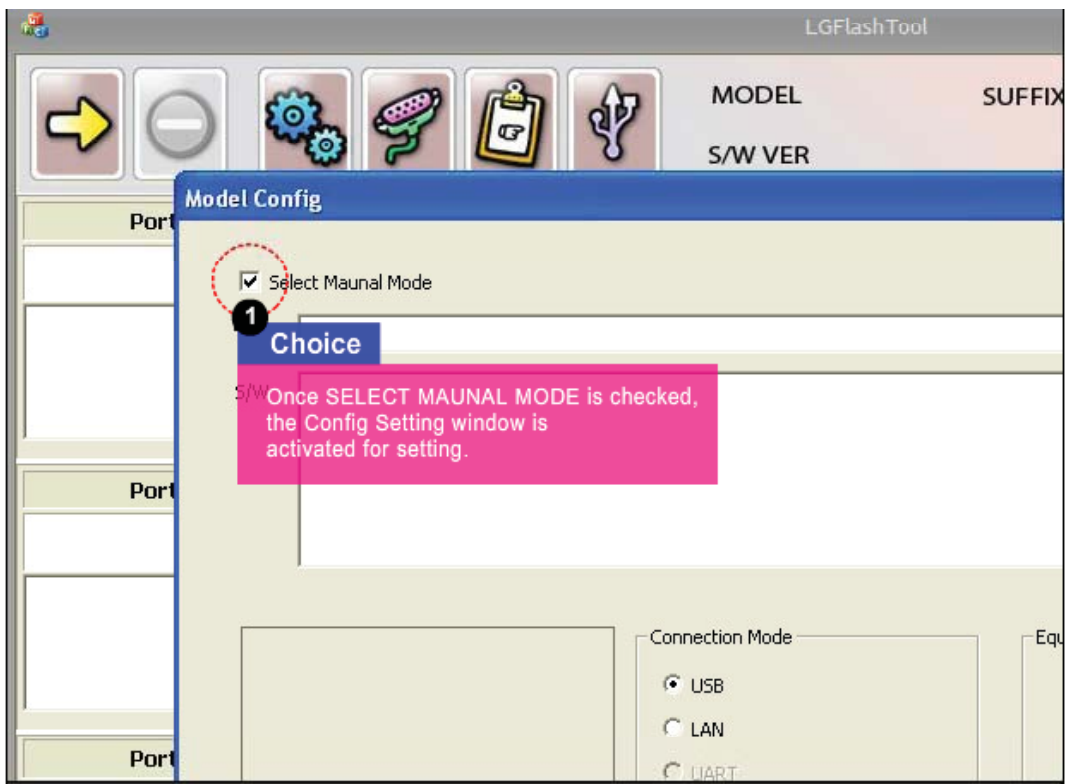
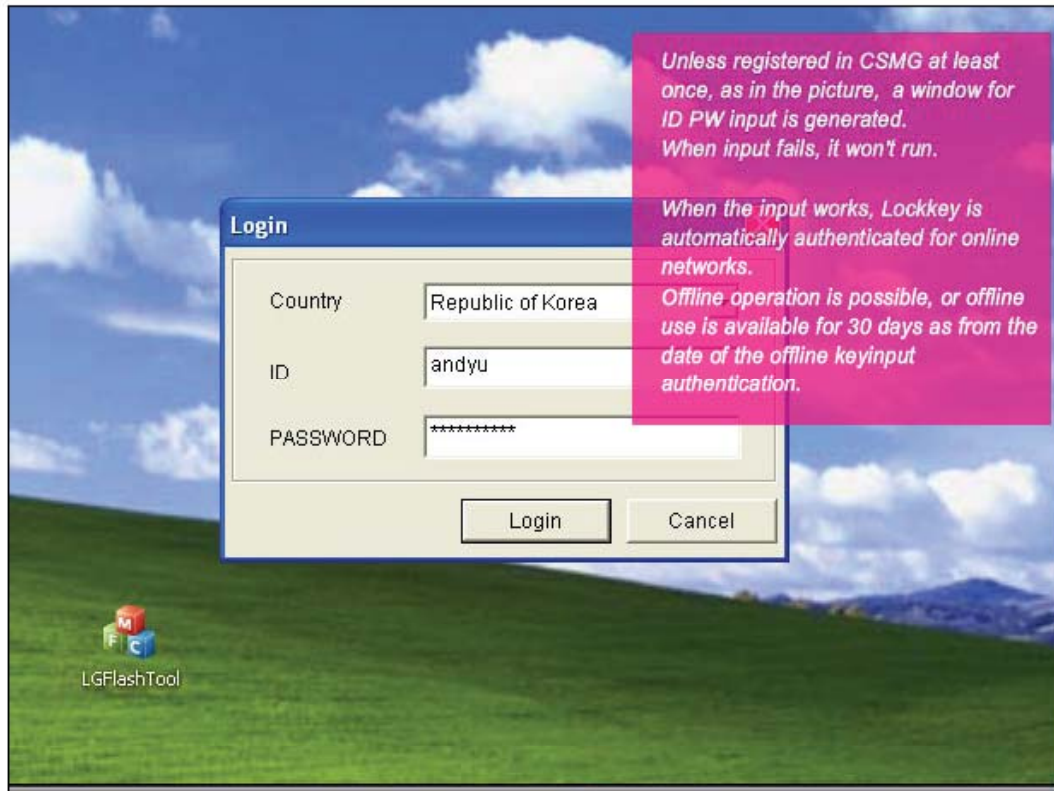




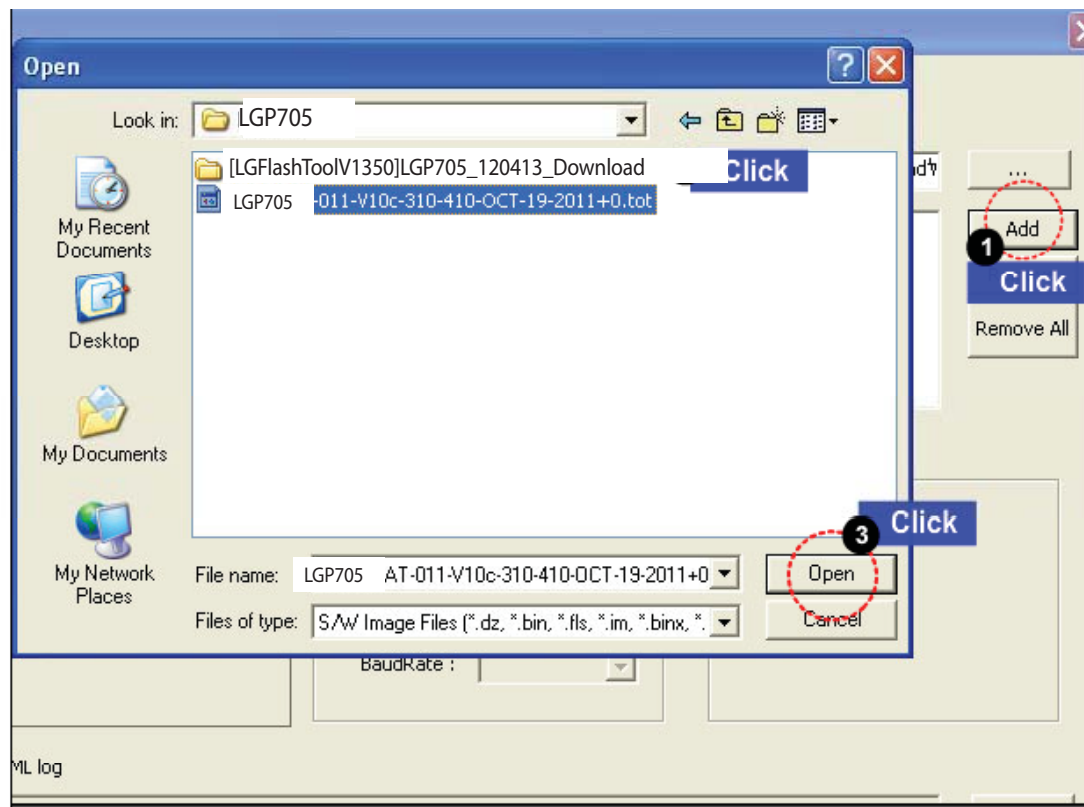
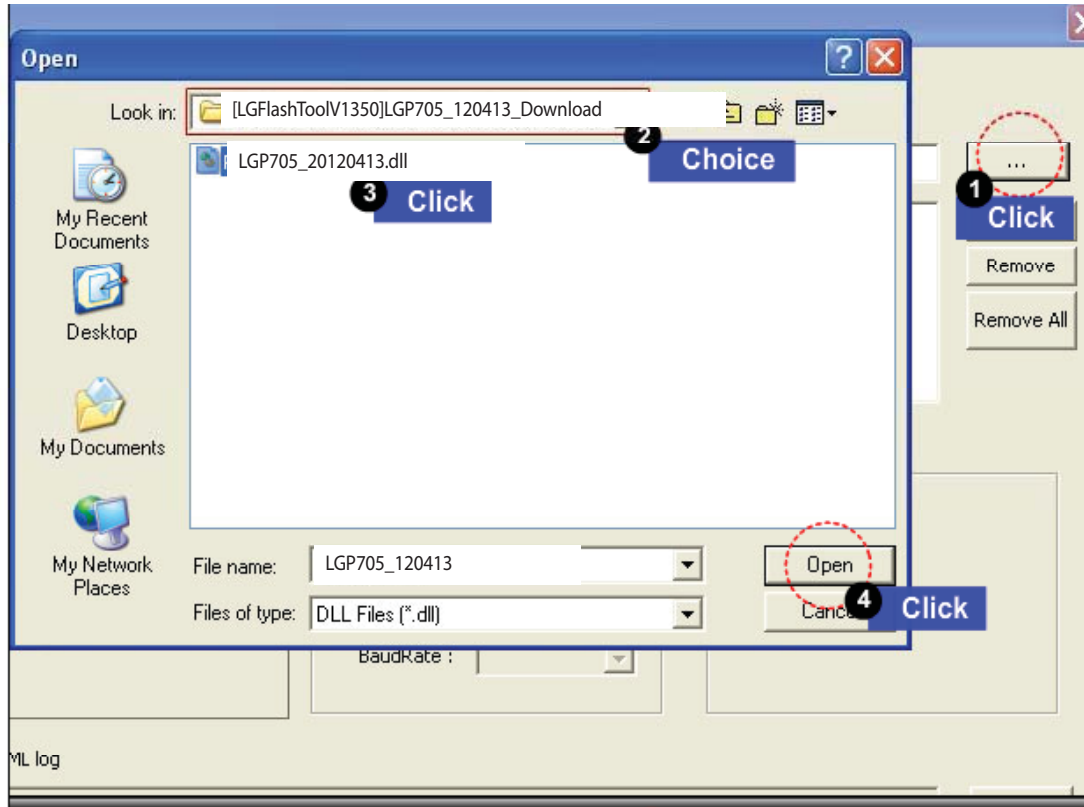
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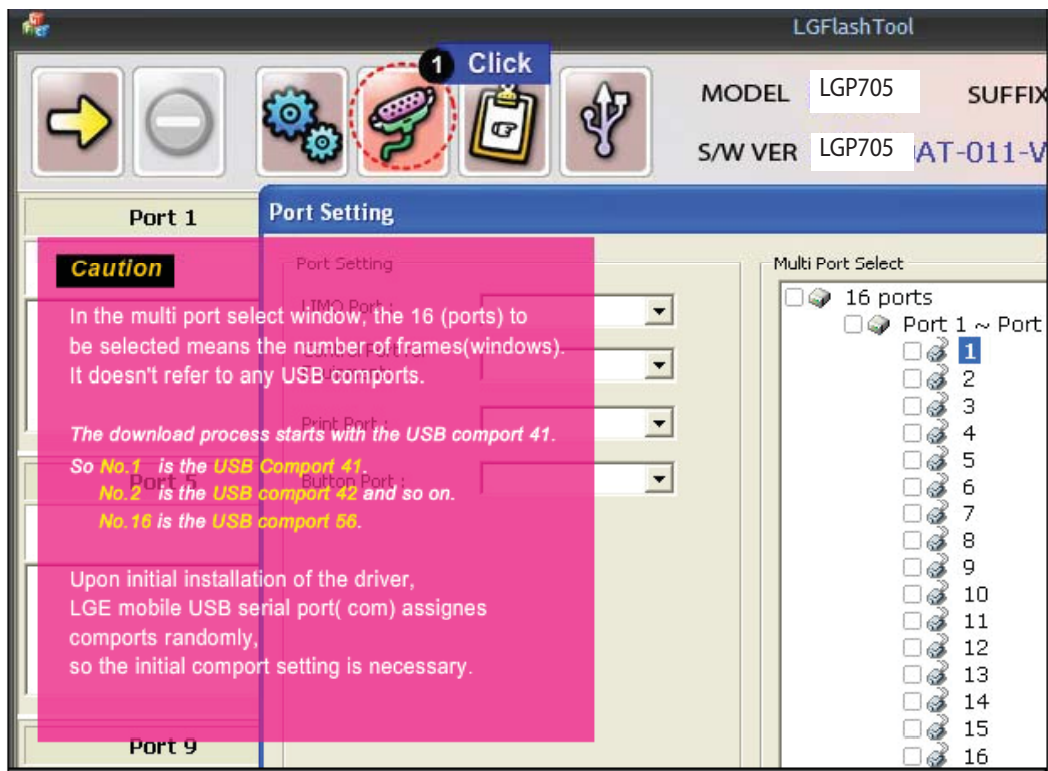
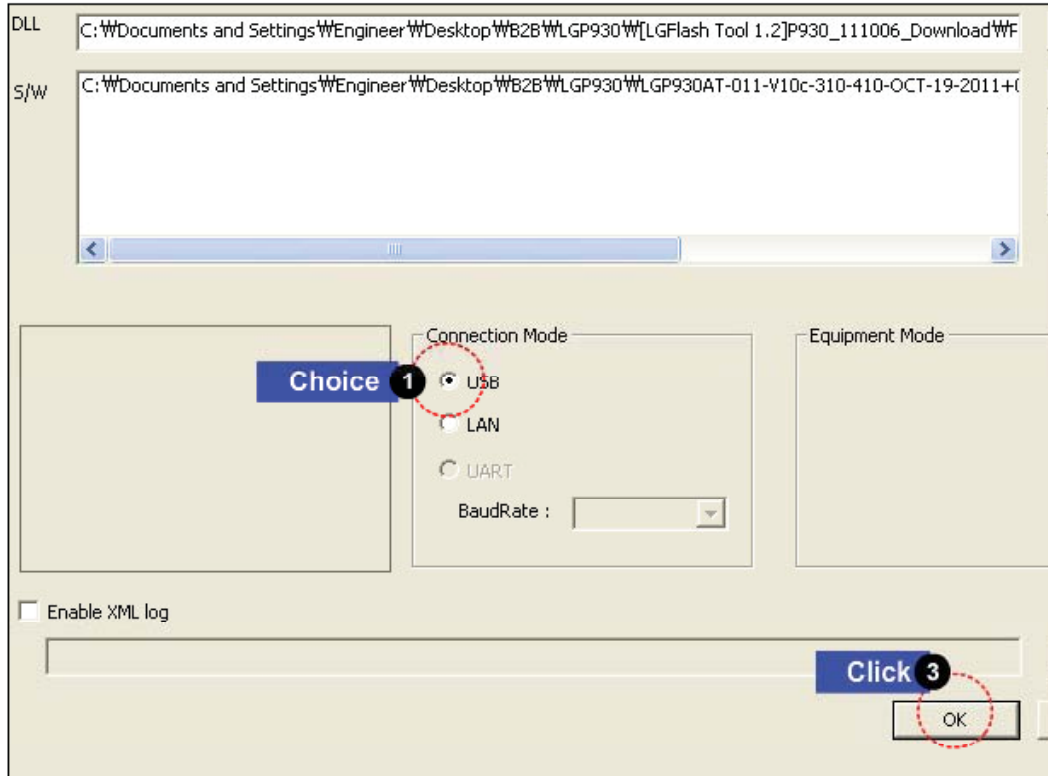
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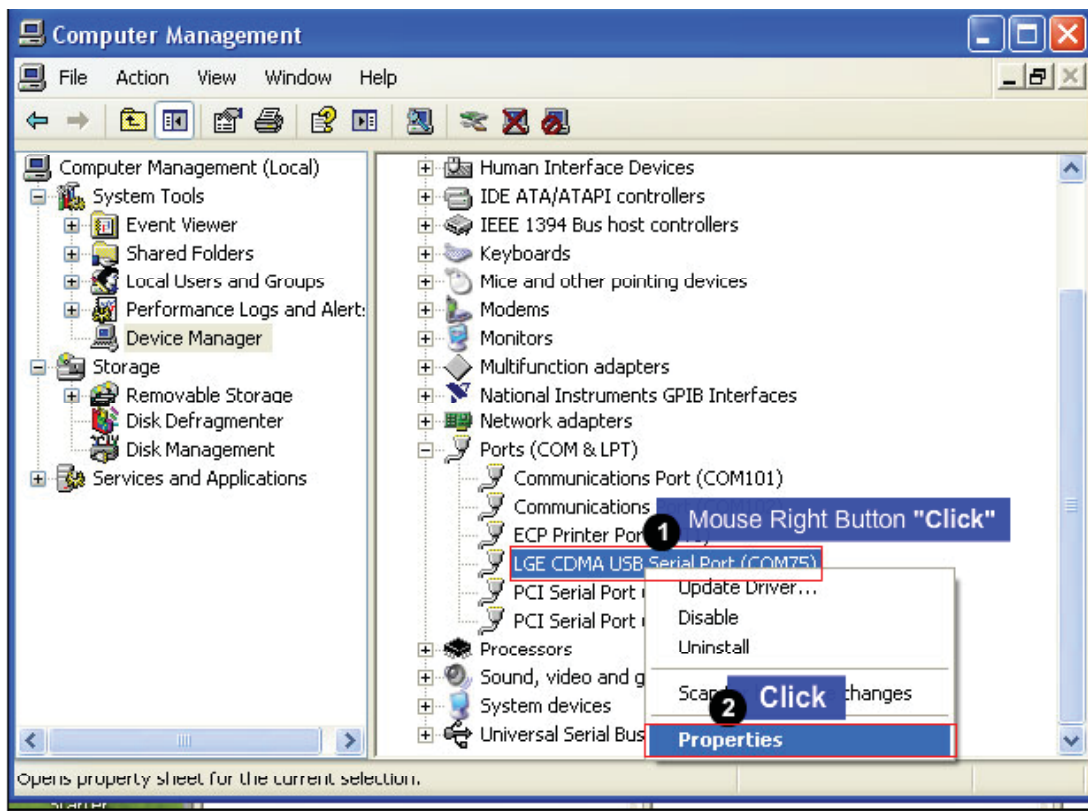
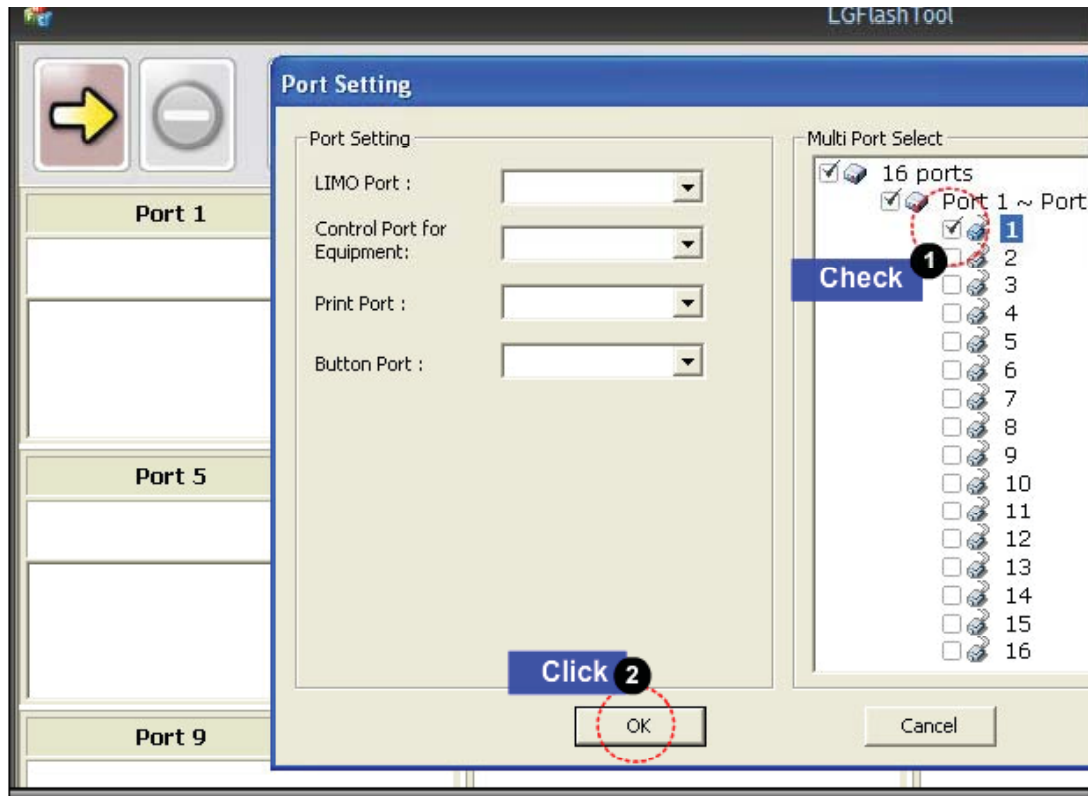
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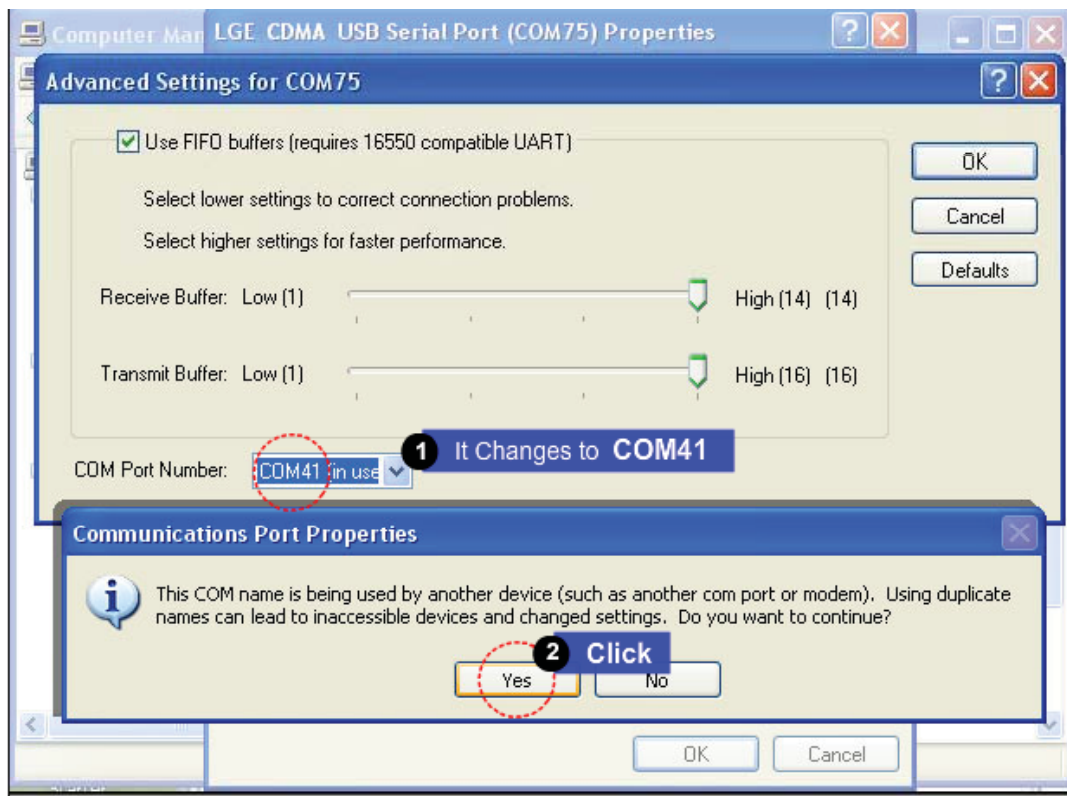
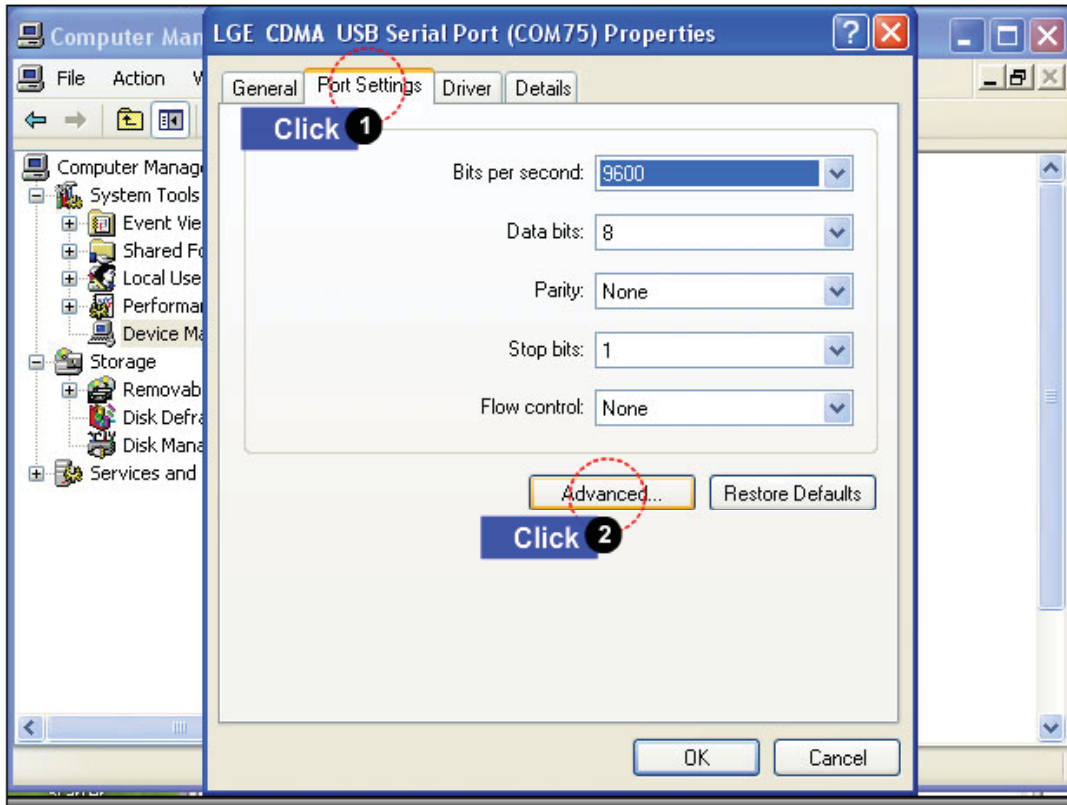


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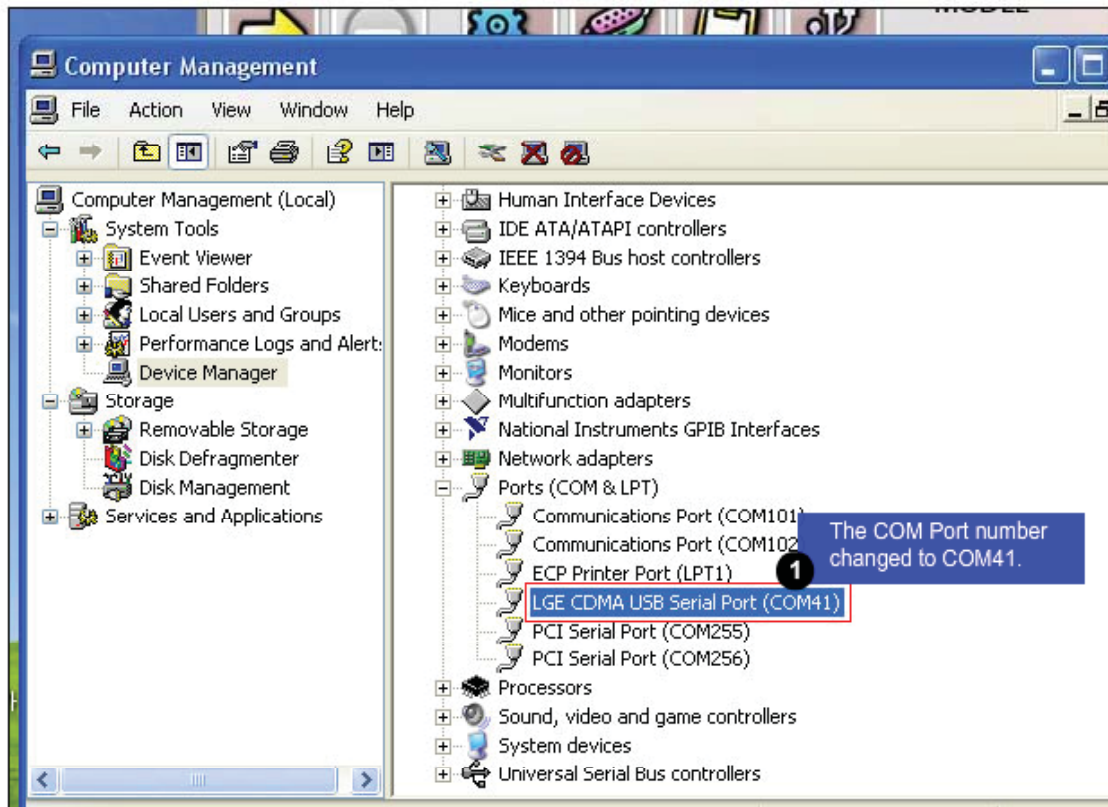
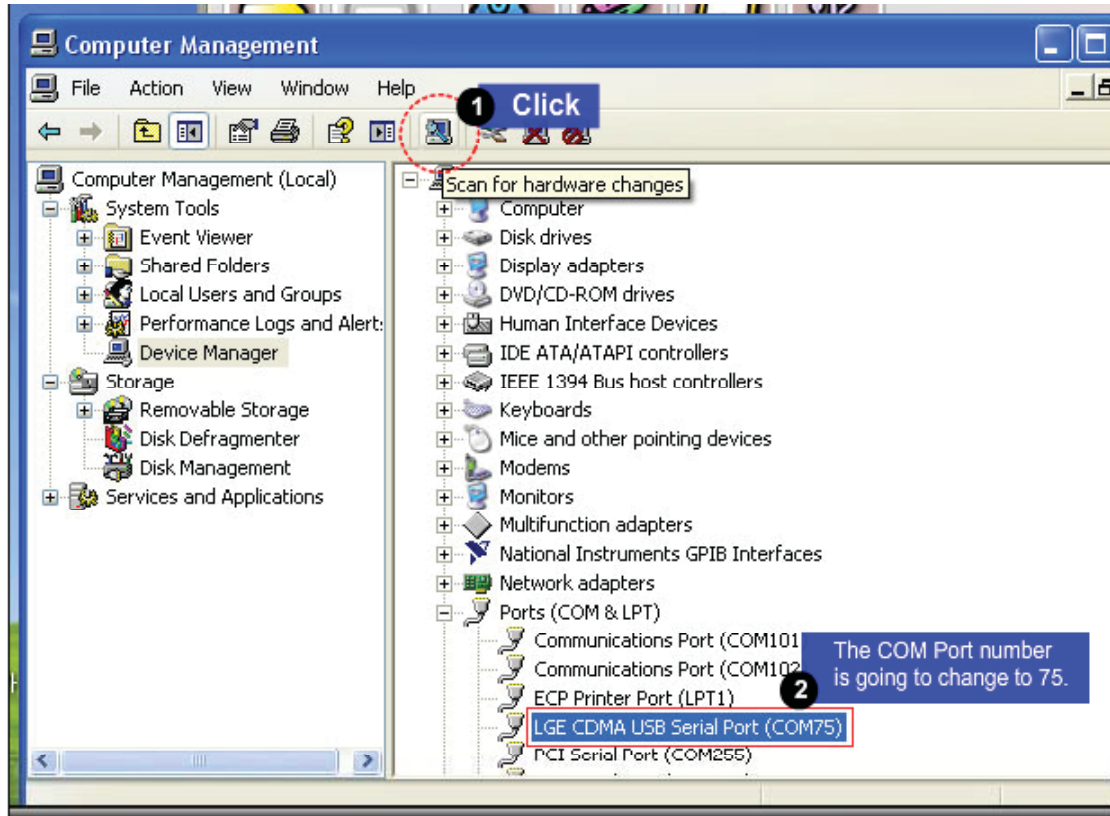


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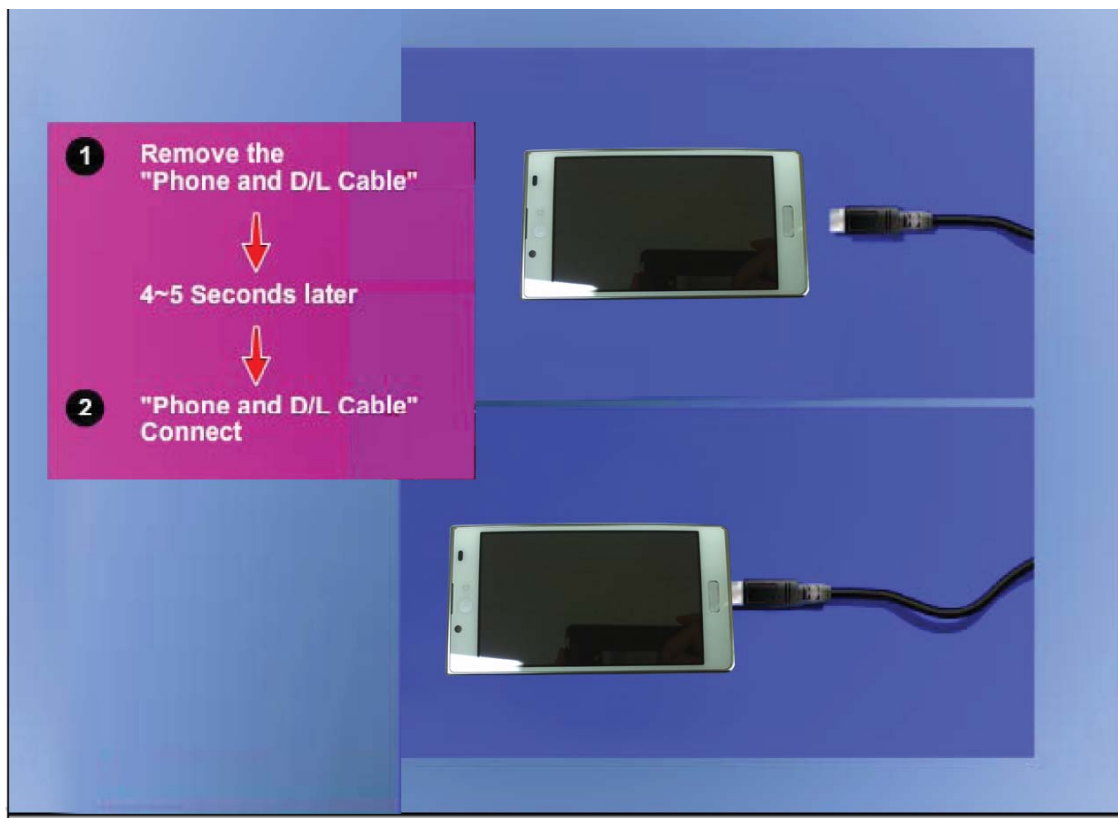
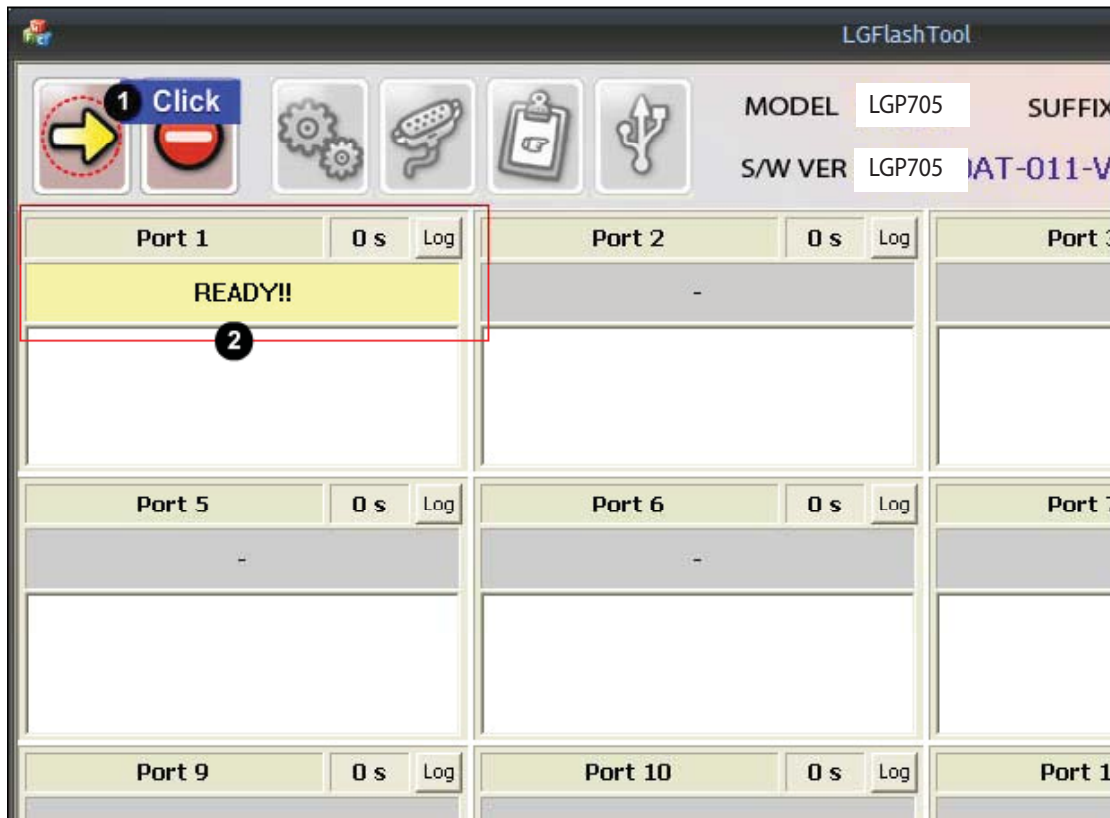




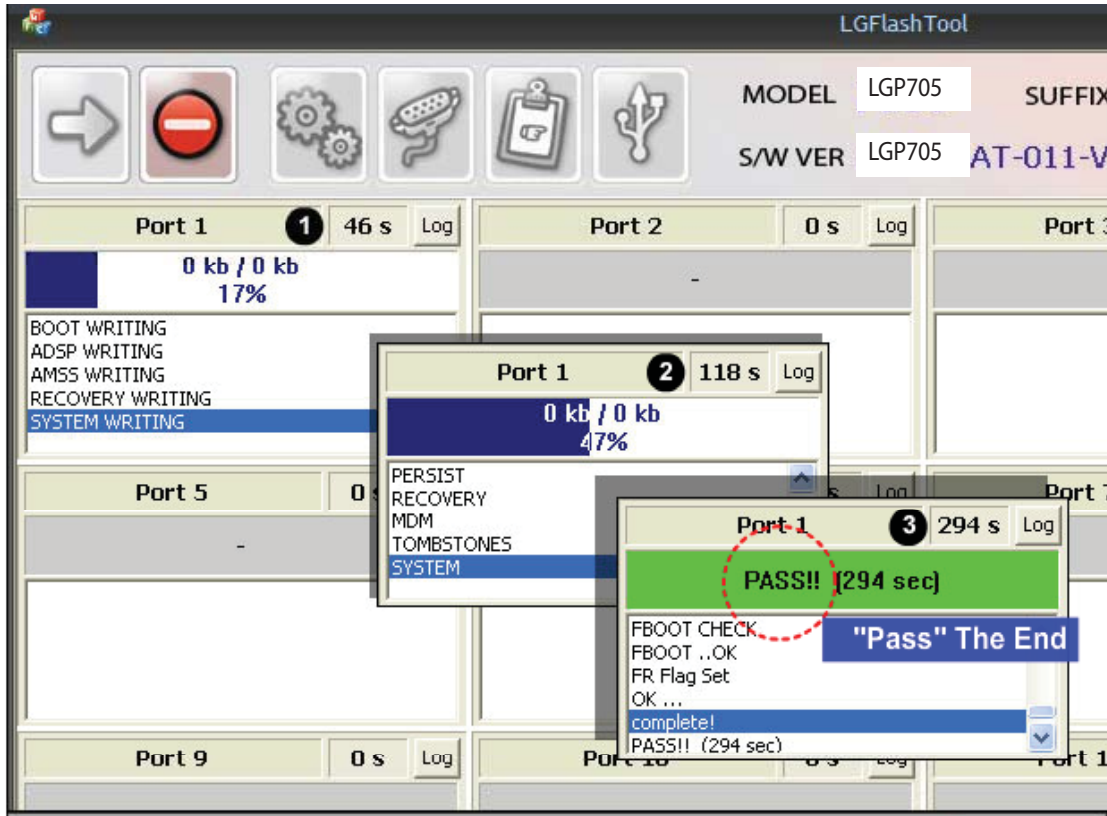
## 5. DOWNLOAD



## 5. DOWNLOAD

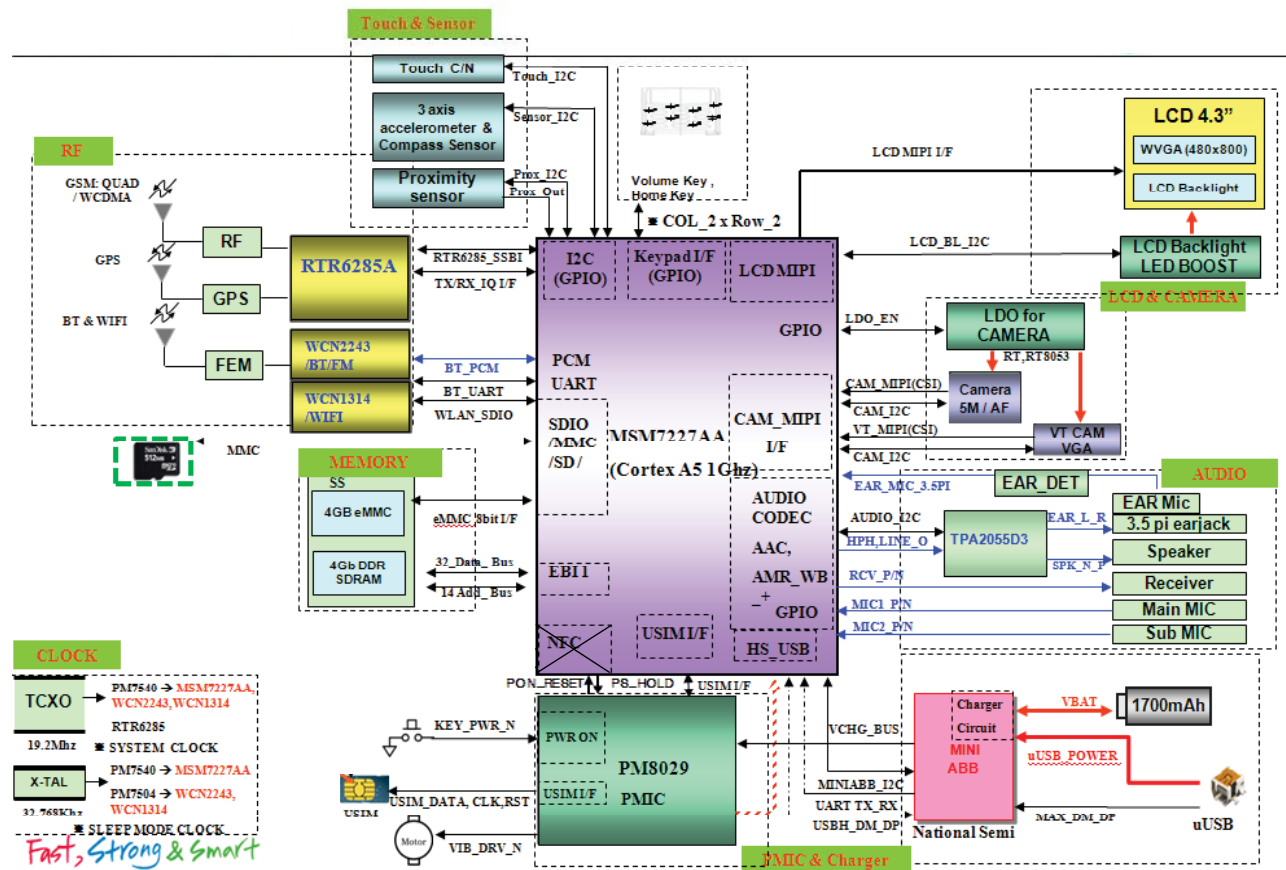


## 5. DOWNLOAD

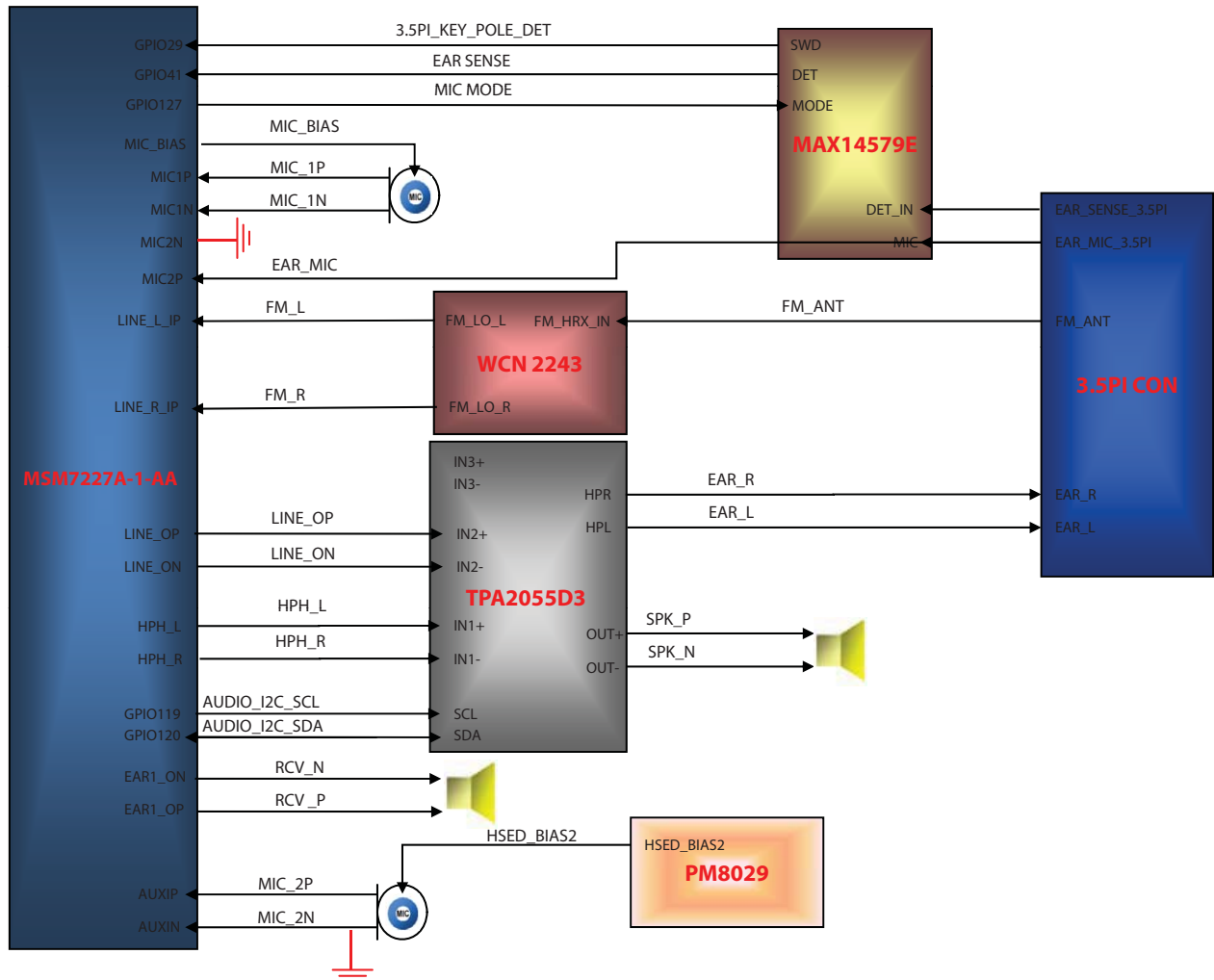


## 6. Block diagram

Block Diagram \_ TOTAL

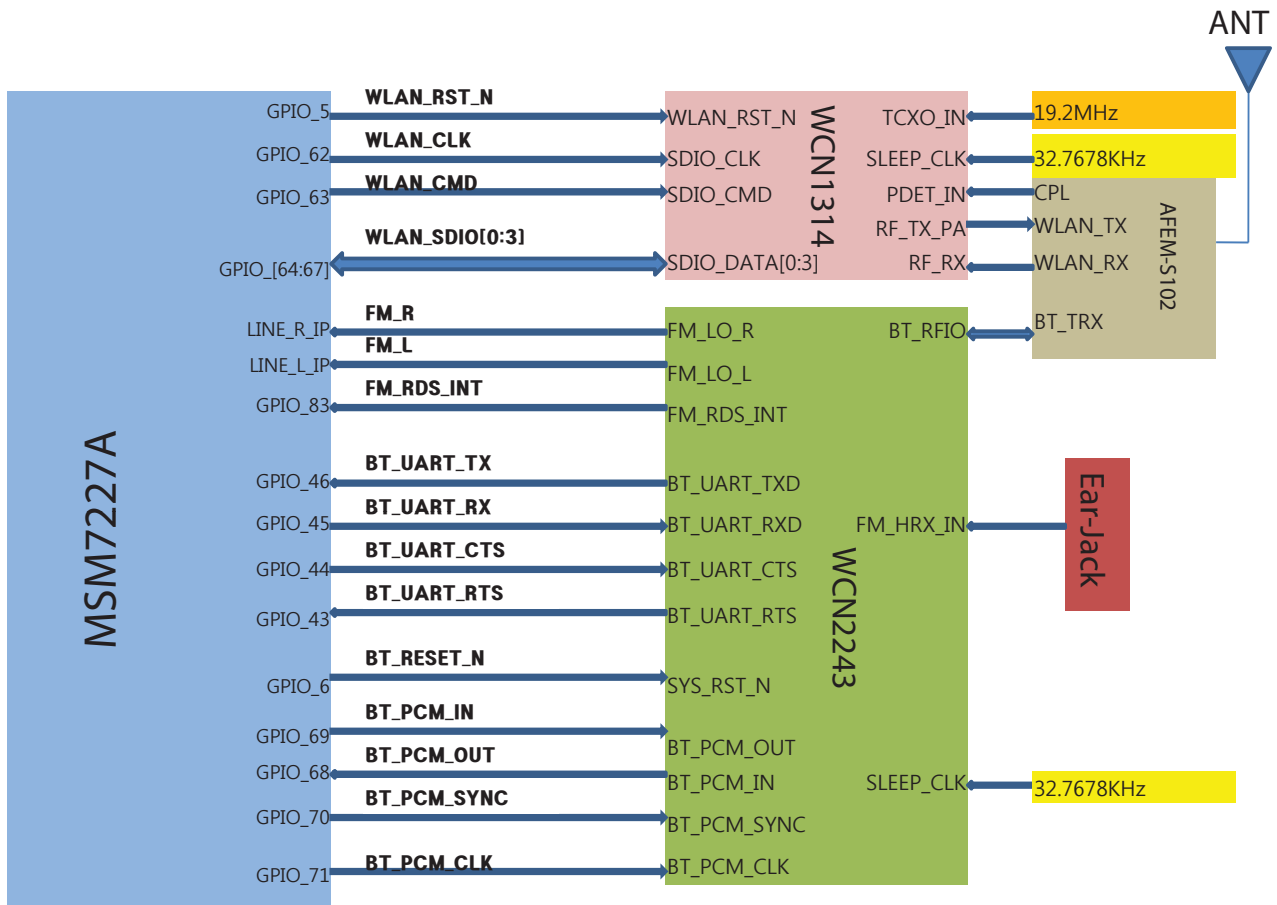


### Block Diagram \_ AUDIO

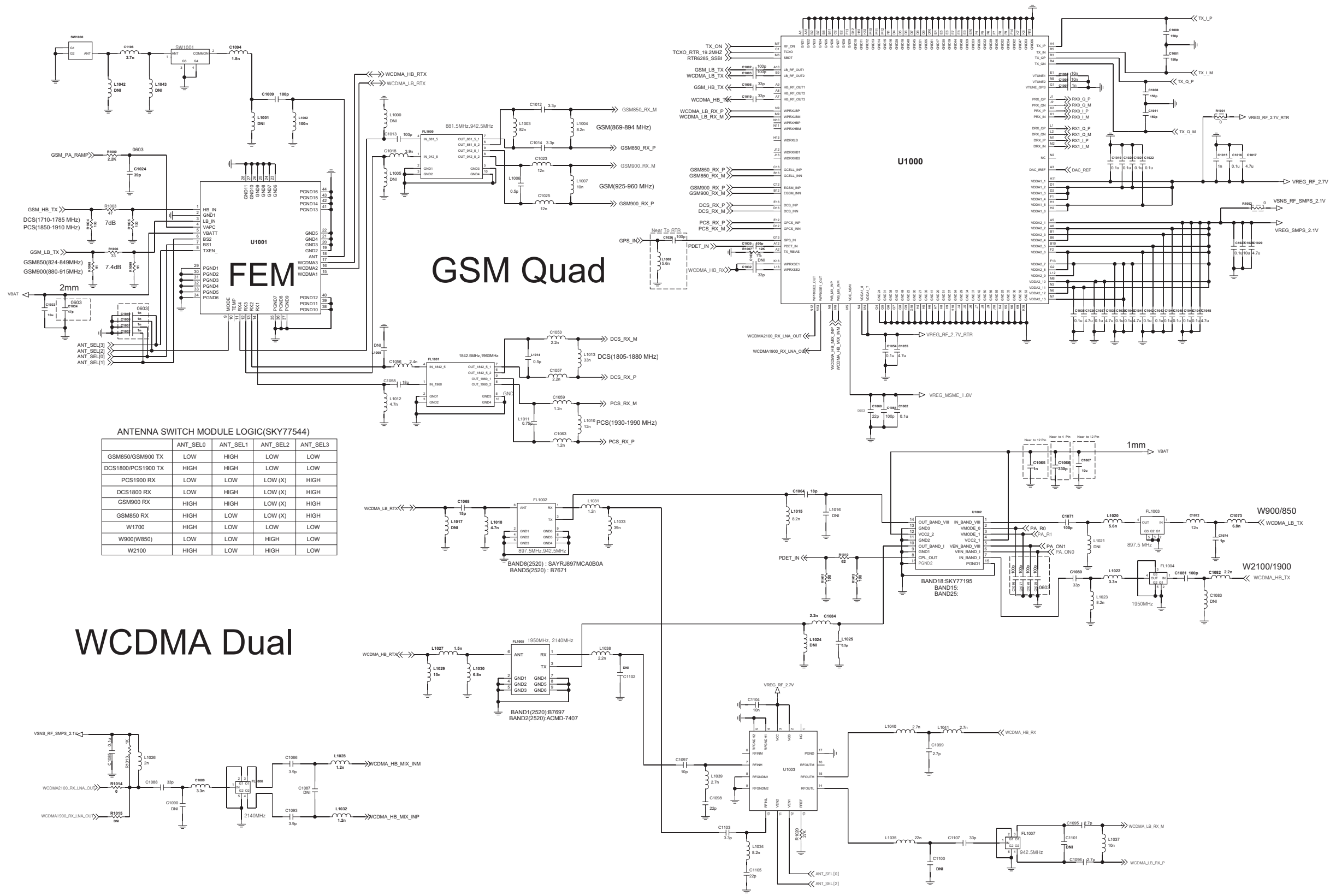


## 6. BLOCK DIAGRAM

Block Diagram \_ BTWIFIM



7. CIRCUIT DIAGRAM





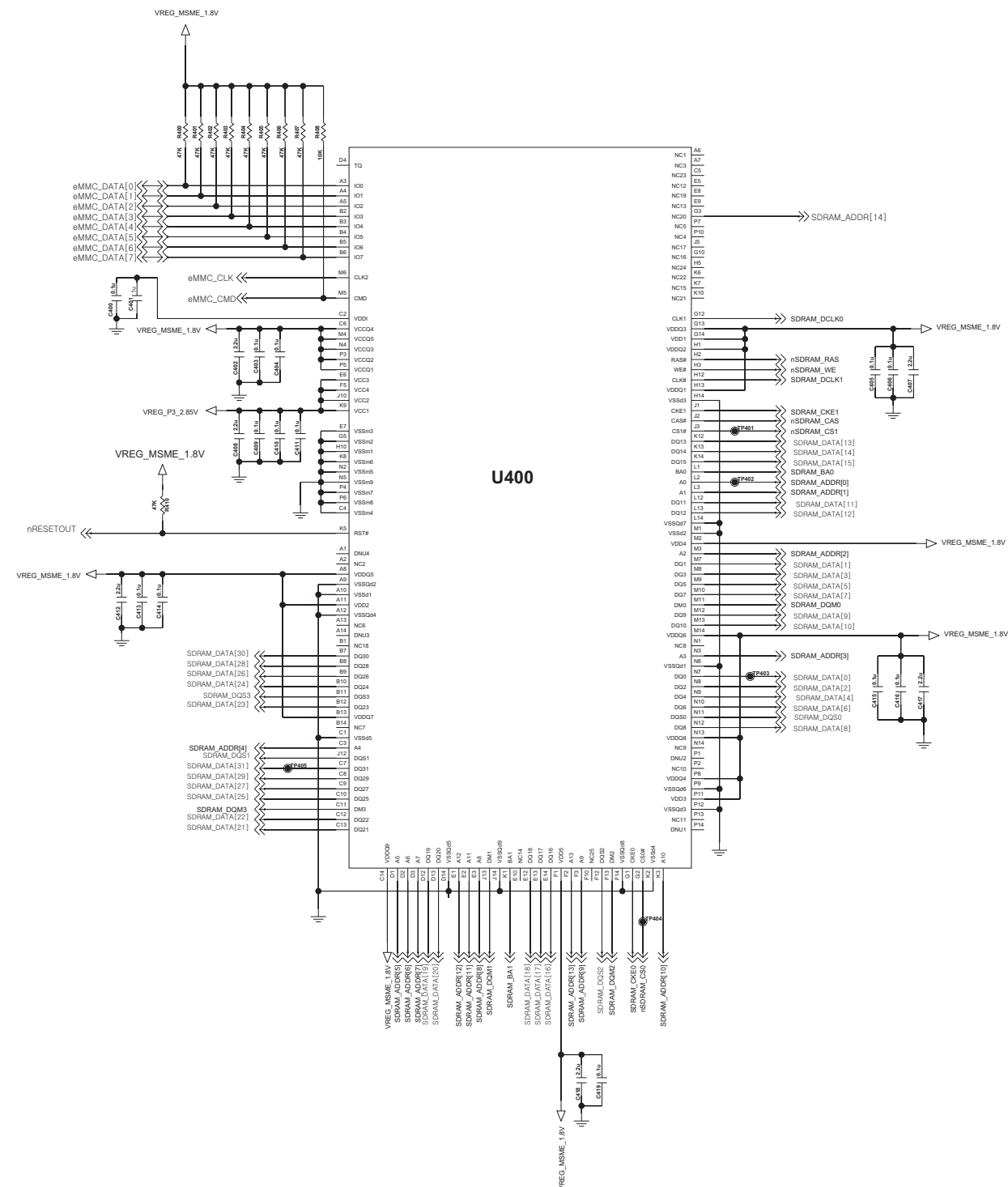
# CAN CLIP

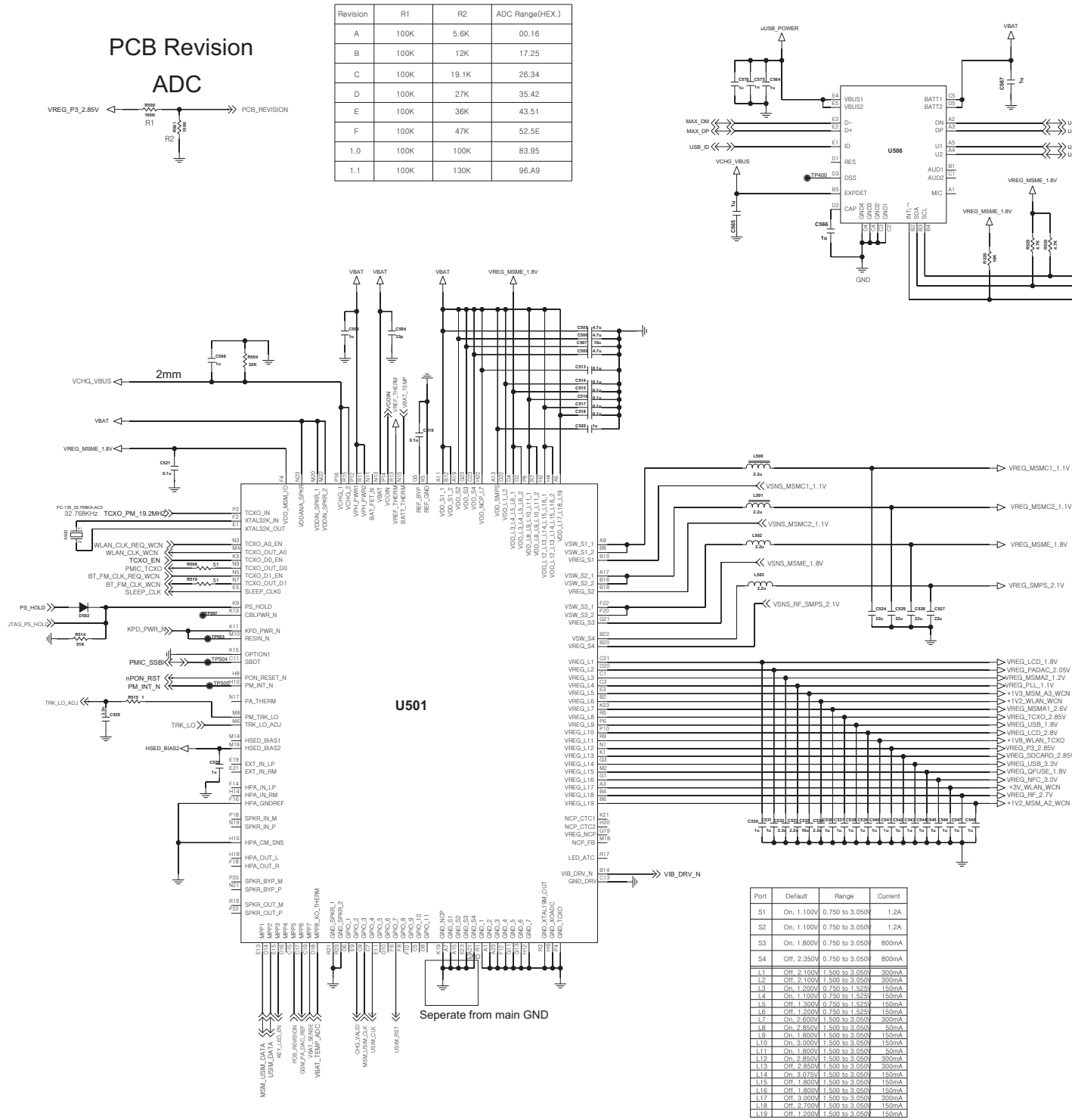
The diagram illustrates the CAN CLIP wiring for 32 channels, labeled SC300 through SC324. Each channel is represented by a square box containing a circle with a vertical line through it, symbolizing a CAN transceiver. The channels are organized into four rows of eight. A common CAN bus is represented by a horizontal line with a ground symbol at the right end. Each channel is connected to this bus via a single wire. The connections are as follows:

- Row 1: SC300, SC301, SC303, SC304
- Row 2: SC306, SC316, SC317, SC307
- Row 3: SC309, SC318, SC311
- Row 4: SC312, SC313, SC314, SC315
- Row 5: SC321, SC318, SC319, SC320
- Row 6: SC322, SC323, SC324

Note: There is a discrepancy in the original image where SC318 is listed twice. The channels are SC300, SC301, SC303, SC304, SC306, SC316, SC317, SC307, SC309, SC318, SC311, SC312, SC313, SC314, SC315, SC321, SC318, SC319, SC320, SC322, SC323, SC324.

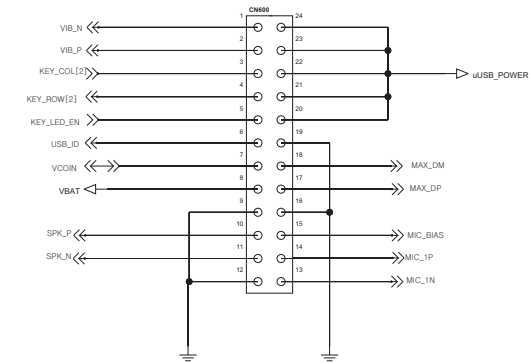
## MCP (4GB eMMC +4Gb LPDDR1)



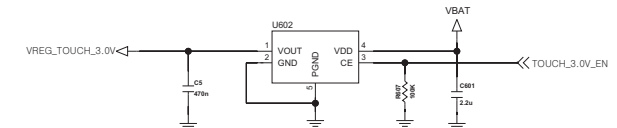


## MAIN-TO-lowerFPCB CONNECTOR

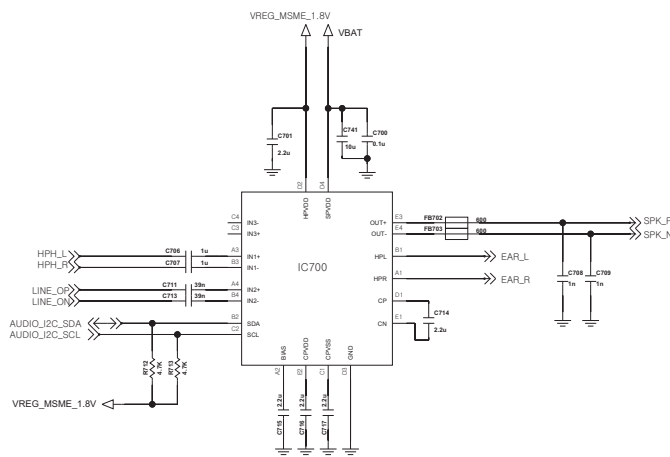
24pin 0.4mm pitch, 0.9T Narrow Type



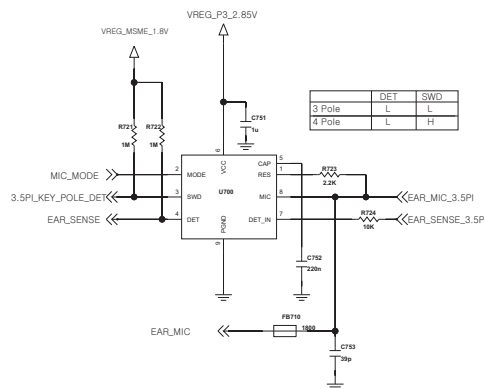
## MAIN-TO-upperFPCB CONNECTOR



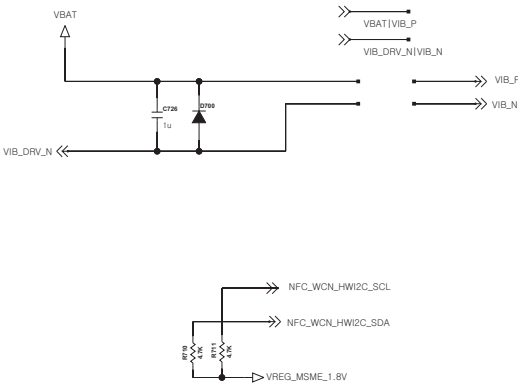
Audio Sub System



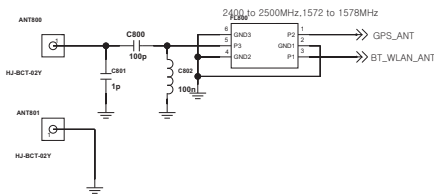
HEADSET\_DETECT



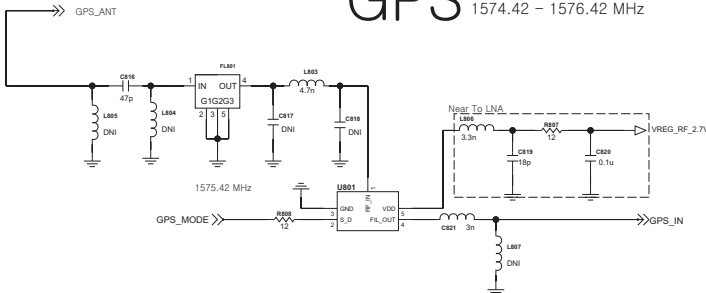
MOTOR



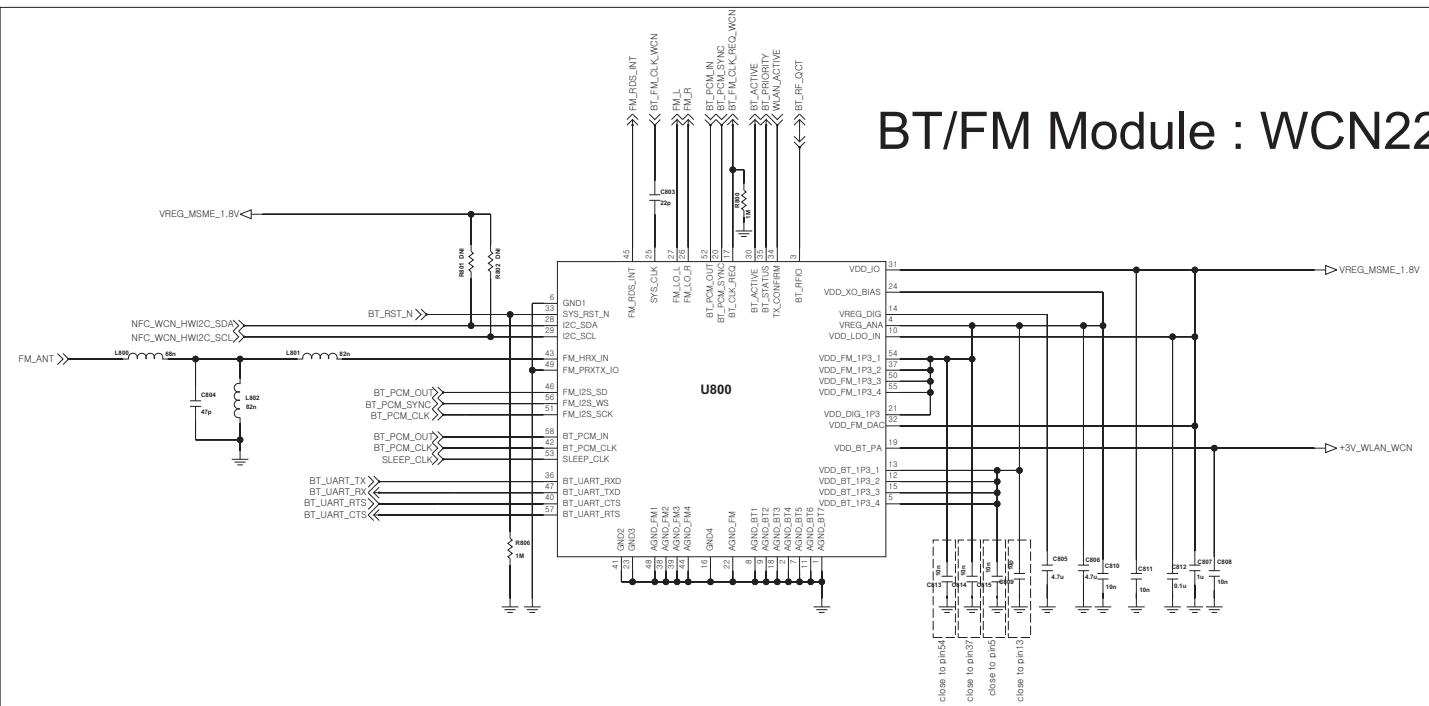
BT/GPS Di-plexer



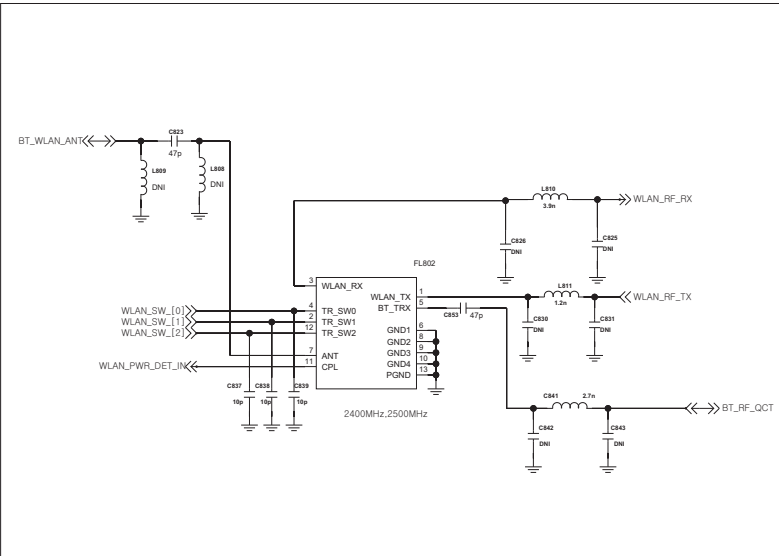
GPS 1574.42 ~ 1576.42 MHz



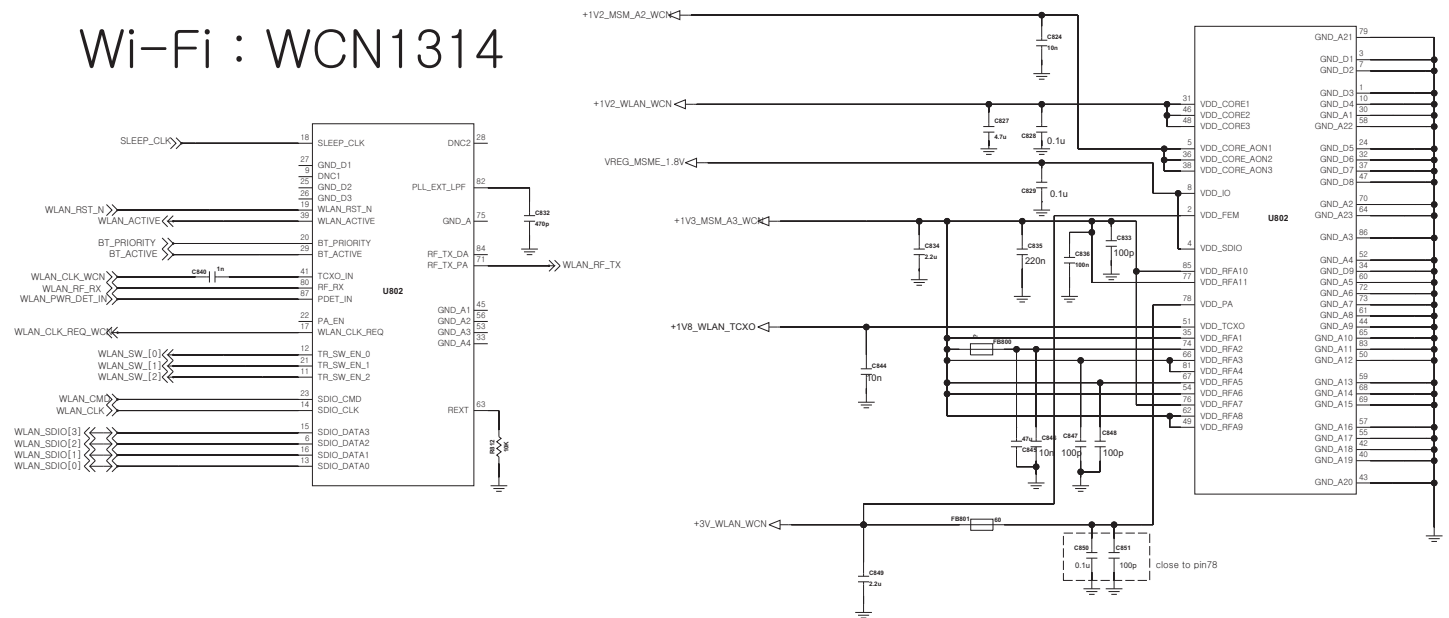
BT/FM Module : WCN2243



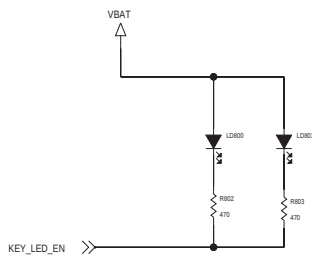
WiFi : WCN 1314



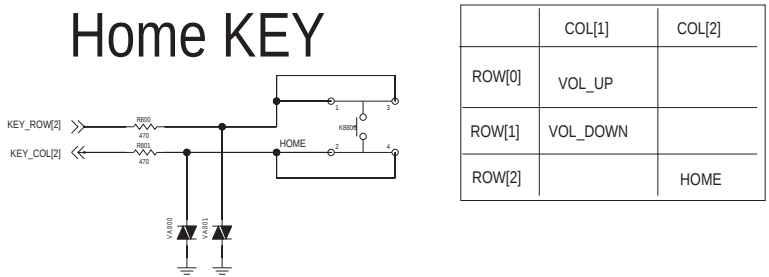
Wi-Fi : WCN1314



MAIN KEY LED

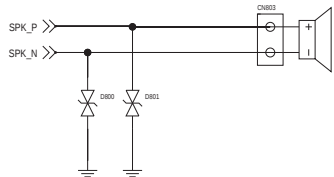


Home KEY

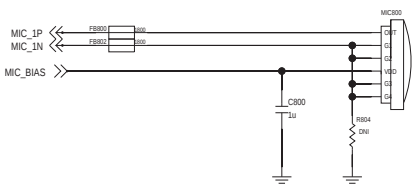


|        | COL[1]   | COL[2] |
|--------|----------|--------|
| ROW[0] | VOL_UP   |        |
| ROW[1] | VOL_DOWN |        |
| ROW[2] |          | HOME   |

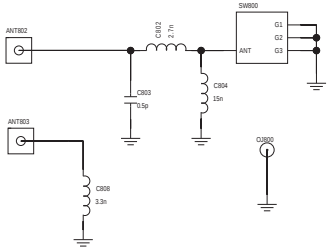
SPEAKER



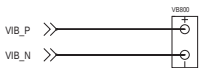
MAIN MIC



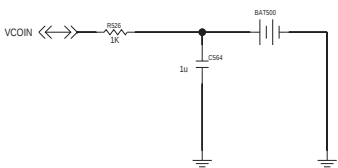
MAIN ANT PAD



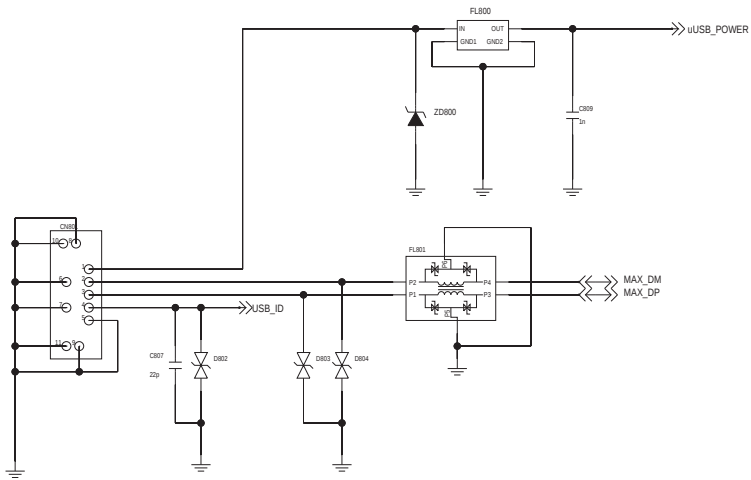
LINEAR MOTOR



Back\_up Capacitor

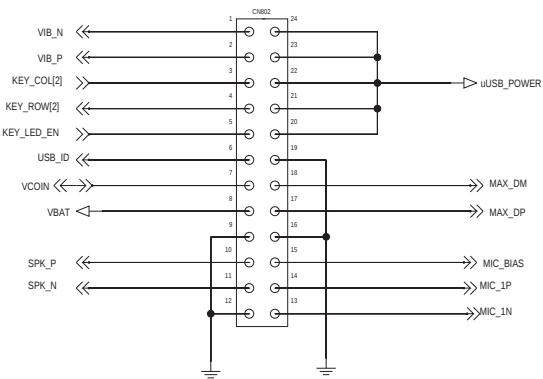


MICRO USB IO

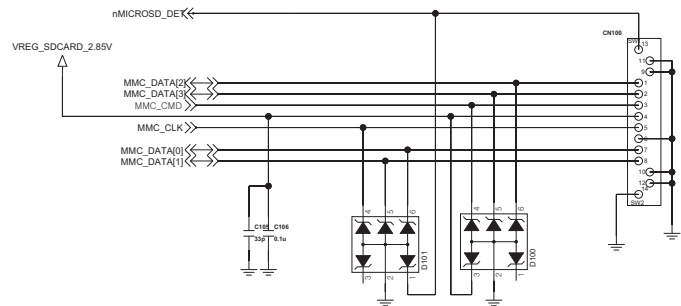


FPCB2 TO MAIN

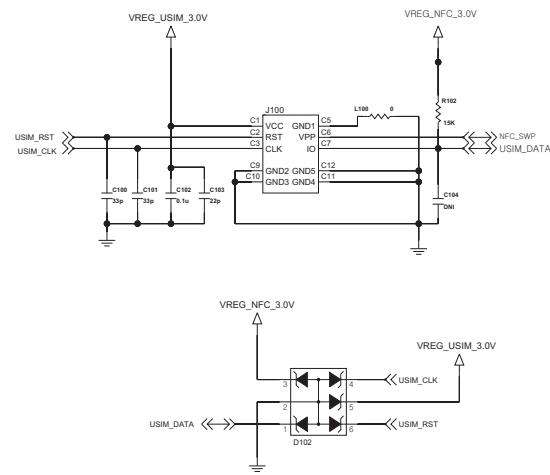
24pin 0.4mm pitch narrow Type



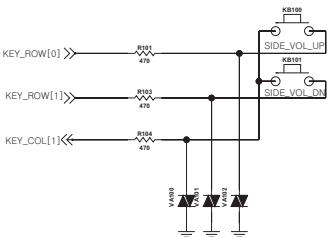
micro-SD SOCKET  
(Push-Pull Type w/ detect)



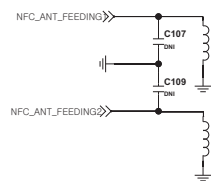
USIM (6pin Normal)



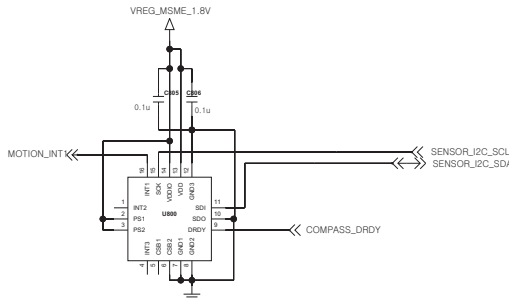
VOLUME KEY



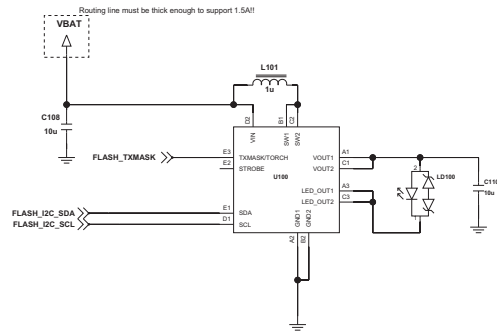
NFC ANT Matching Circuit



Digital Compass  
+ Accelerometer sensor

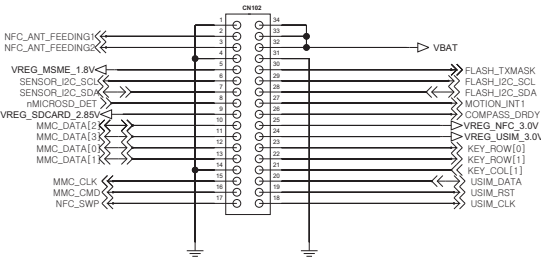


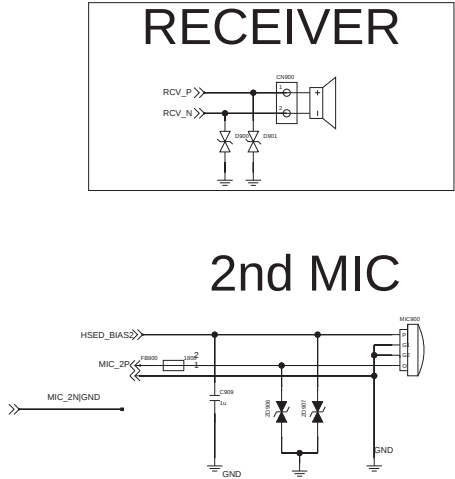
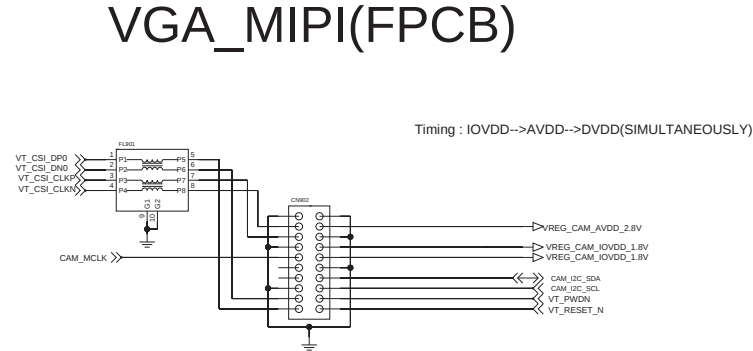
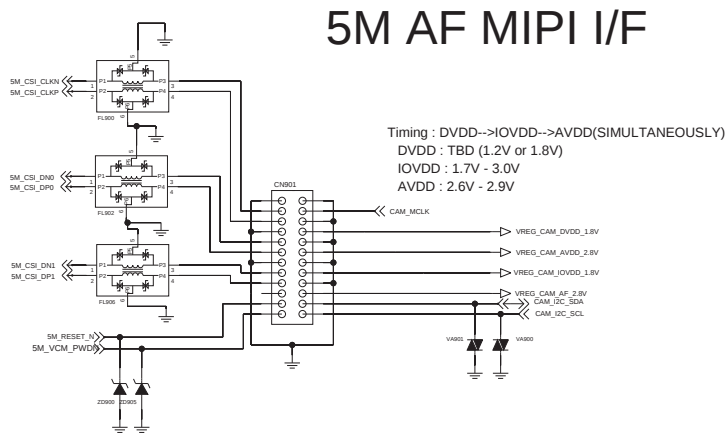
CAMERA FLASH LED DRIVER



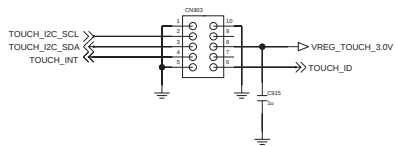
SUB-TO-MAIN CONNECTOR

30pin socket NARROW TYPE 0.9t

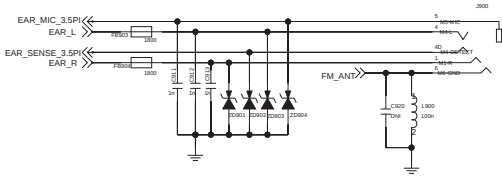




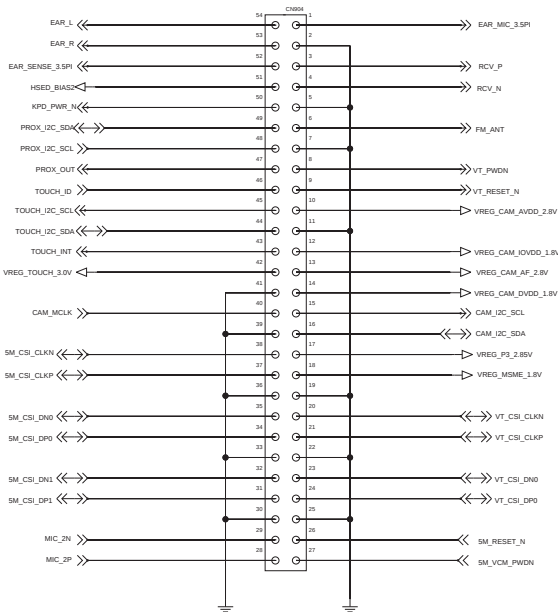
## TOUCH CONNECTOR



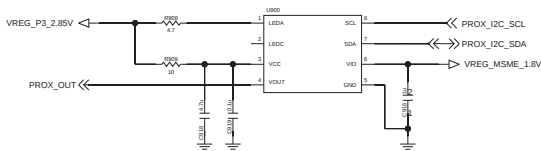
## 3.5pi Ear Jack Connector



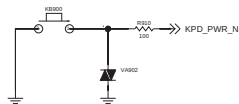
## MAIN-TO-upperFPCB CONNECTOR



## Proximity Sensor



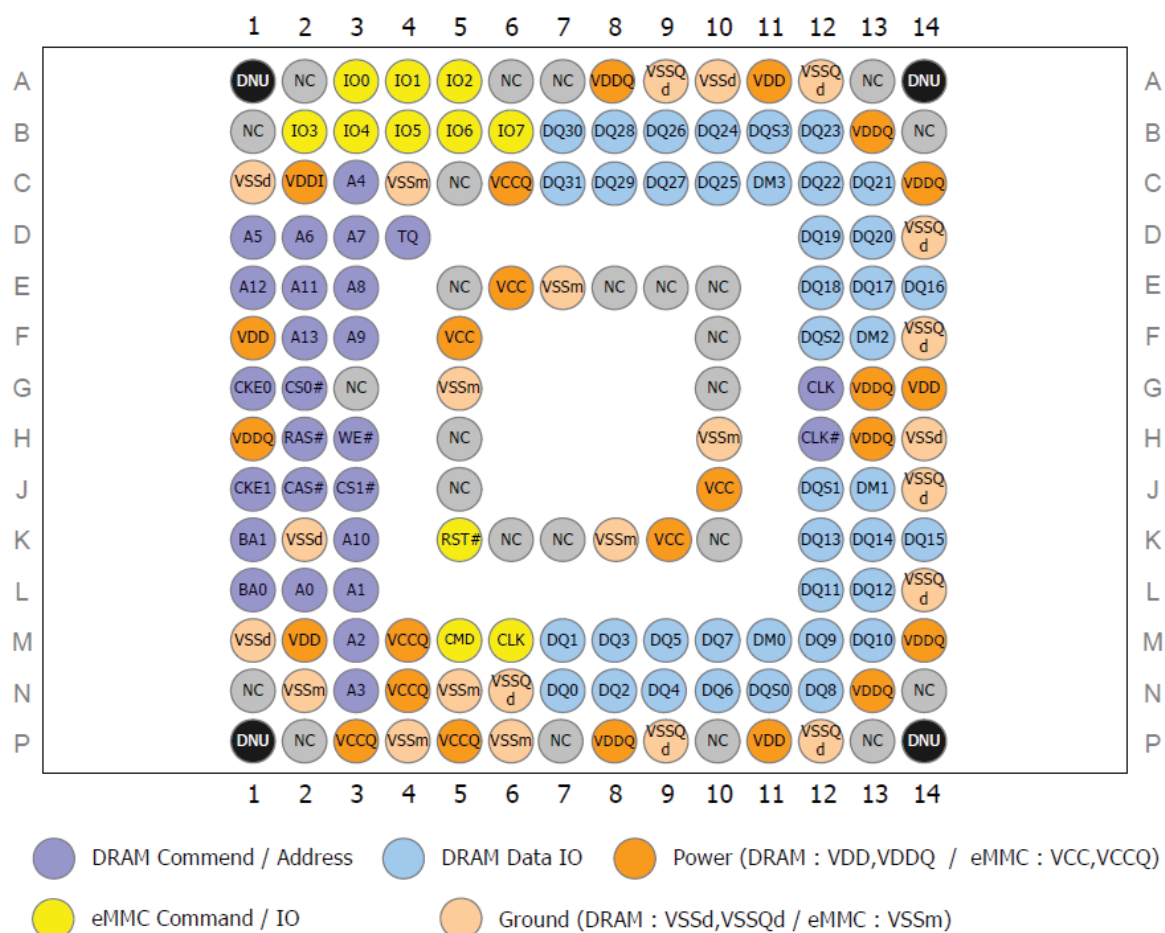
## POWER & LOCK KEY



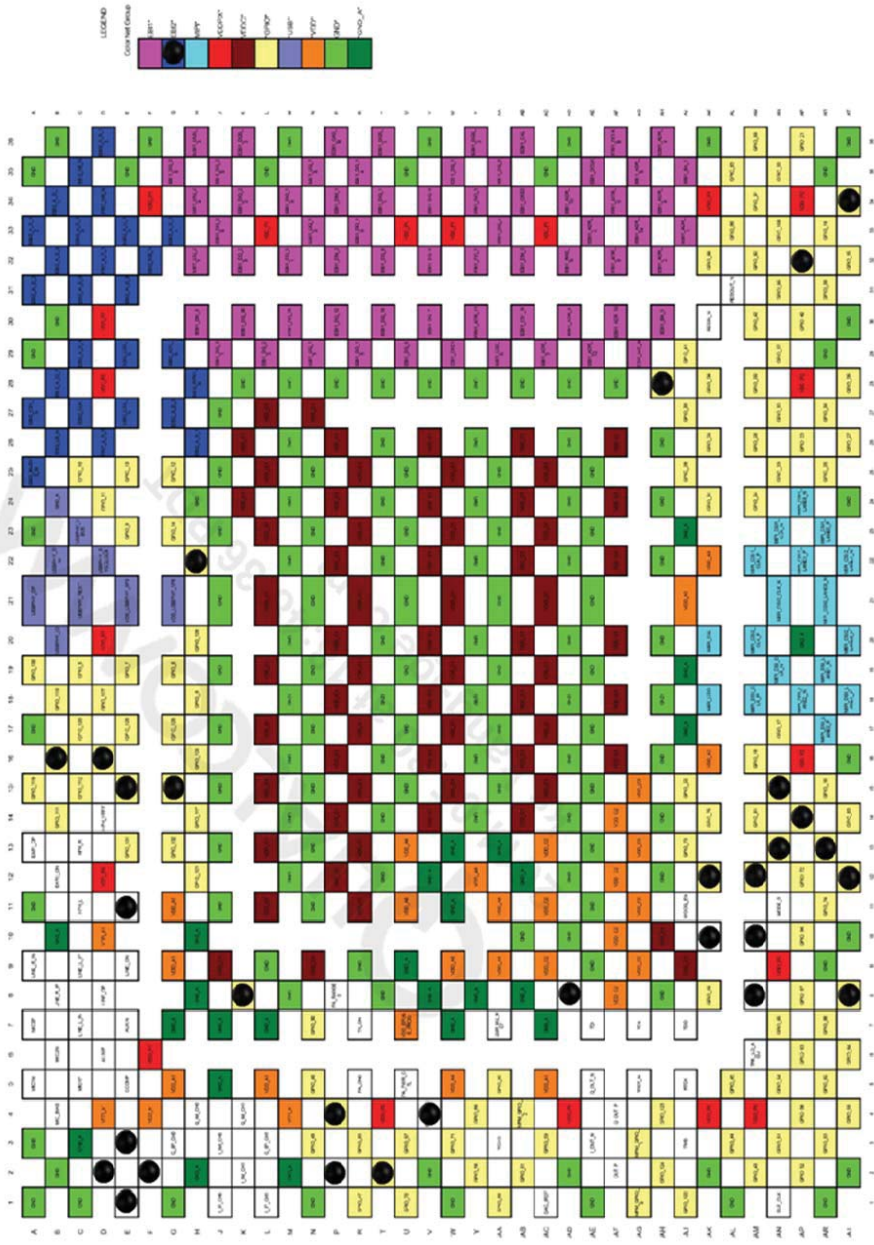
## 8. BGA PIN MAP

U400 - Memory MCP (Top View)

## 153Ball ASSIGNMENT - (4GB+4Gb / eMMC4.41 + x32 LPDDR, 2CS)

*Top View*

### U200 - MSM7227A(bottom view)



○ USE

● NOT IN USE

## 8. BGA PIN MAP

### U501 – PM8029

|   | 1           | 2          | 3        | 4        | 5        | 6        | 7        | 8        | 9        | 10       | 11       | 12       | 13       | 14       | 15       | 16       | 17       | 18       | 19       | 20       | 21       | 22       | 23       | 24       |
|---|-------------|------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| A | NC          | VBUS_L17   | NC       | NC       | VDD_L17  | NC       | NC       | VBUS_L11 | NC       | VBUS_L11 | NC       | VDD_L11  | NC       | NC       | VBUS_L2  | NC       | VBUS_L2  | NC       | VDD_L2   | NC       | VBUS_L4  | NC       | VBUS_L4  | NC       |
| B | NC          | VBUS_L18   | NC       | VBUS_L18 | NC       | VBUS_L18 | NC       | VBUS_L11 | NC       | VBUS_L11 | NC       | VDD_L11  | NC       | VBUS_L11 | NC       | VBUS_L11 | NC       | VBUS_L11 | NC       | VBUS_L11 | NC       | VBUS_L11 | NC       | VBUS_L11 |
| C | VBUS_L13    | NC         | VBUS_L14 | NC       | NC       | NC       | OP104    | NC       | OP103    | NC       | NC       | NC       | NC       | NC       | NC       | NC       | NC       | NC       | NC       | NC       | NC       | NC       | NC       | NC       |
| D | NC          | VBUS_L13   | NC       | VBUS_L13 | NC       | VBUS_L13 | NC       | VBUS_L13 | NC       | VBUS_L13 | NC       | VBUS_L13 | NC       | VBUS_L13 | NC       | VBUS_L13 | NC       | VBUS_L13 | NC       | VBUS_L13 | NC       | VBUS_L13 | NC       | VBUS_L13 |
| E | XTAL12K_OUT | NC         | VBUS_L15 | NC       | VBUS_L15 | NC       | VBUS_L15 | NC       | VBUS_L15 | NC       | VBUS_L15 | NC       | VBUS_L15 | NC       | VBUS_L15 | NC       | VBUS_L15 | NC       | VBUS_L15 | NC       | VBUS_L15 | NC       | VBUS_L15 | NC       |
| F | NC          | XTAL12K_IN | NC       | VBUS_L16 | NC       | VBUS_L16 | NC       | VBUS_L16 | NC       | VBUS_L16 | NC       | VBUS_L16 | NC       | VBUS_L16 | NC       | VBUS_L16 | NC       | VBUS_L16 | NC       | VBUS_L16 | NC       | VBUS_L16 | NC       | VBUS_L16 |
| G | VBUS_L16    | NC         | VBUS_L14 | NC       | VBUS_L14 | NC       | VBUS_L14 | NC       | VBUS_L14 | NC       | VBUS_L14 | NC       | VBUS_L14 | NC       | VBUS_L14 | NC       | VBUS_L14 | NC       | VBUS_L14 | NC       | VBUS_L14 | NC       | VBUS_L14 | NC       |
| H | NC          | VBUS_L12   | NC       | VBUS_L12 | NC       | VBUS_L12 | NC       | VBUS_L12 | NC       | VBUS_L12 | NC       | VBUS_L12 | NC       | VBUS_L12 | NC       | VBUS_L12 | NC       | VBUS_L12 | NC       | VBUS_L12 | NC       | VBUS_L12 | NC       | VBUS_L12 |
| K | VBUS_L13    | NC         | VBUS_L13 | NC       | VBUS_L13 | NC       | VBUS_L13 | NC       | VBUS_L13 | NC       | VBUS_L13 | NC       | VBUS_L13 | NC       | VBUS_L13 | NC       | VBUS_L13 | NC       | VBUS_L13 | NC       | VBUS_L13 | NC       | VBUS_L13 | NC       |
| M | NC          | VBUS_L18   | NC       | VBUS_L18 | NC       | VBUS_L18 | NC       | VBUS_L18 | NC       | VBUS_L18 | NC       | VBUS_L18 | NC       | VBUS_L18 | NC       | VBUS_L18 | NC       | VBUS_L18 | NC       | VBUS_L18 | NC       | VBUS_L18 | NC       | VBUS_L18 |
| N | VBUS_L12    | NC         | VBUS_L12 | NC       | VBUS_L12 | NC       | VBUS_L12 | NC       | VBUS_L12 | NC       | VBUS_L12 | NC       | VBUS_L12 | NC       | VBUS_L12 | NC       | VBUS_L12 | NC       | VBUS_L12 | NC       | VBUS_L12 | NC       | VBUS_L12 | NC       |
| P | NC          | VBUS_L12   | NC       | VBUS_L12 | NC       | VBUS_L12 | NC       | VBUS_L12 | NC       | VBUS_L12 | NC       | VBUS_L12 | NC       | VBUS_L12 | NC       | VBUS_L12 | NC       | VBUS_L12 | NC       | VBUS_L12 | NC       | VBUS_L12 | NC       | VBUS_L12 |
| R | NC          | VBUS_L12   | NC       | VBUS_L12 | NC       | VBUS_L12 | NC       | VBUS_L12 | NC       | VBUS_L12 | NC       | VBUS_L12 | NC       | VBUS_L12 | NC       | VBUS_L12 | NC       | VBUS_L12 | NC       | VBUS_L12 | NC       | VBUS_L12 | NC       | VBUS_L12 |

○ USE  
● NOT IN USE

PM8029 IC pin assignments (bottom view)

## 8. BGA PIN MAP

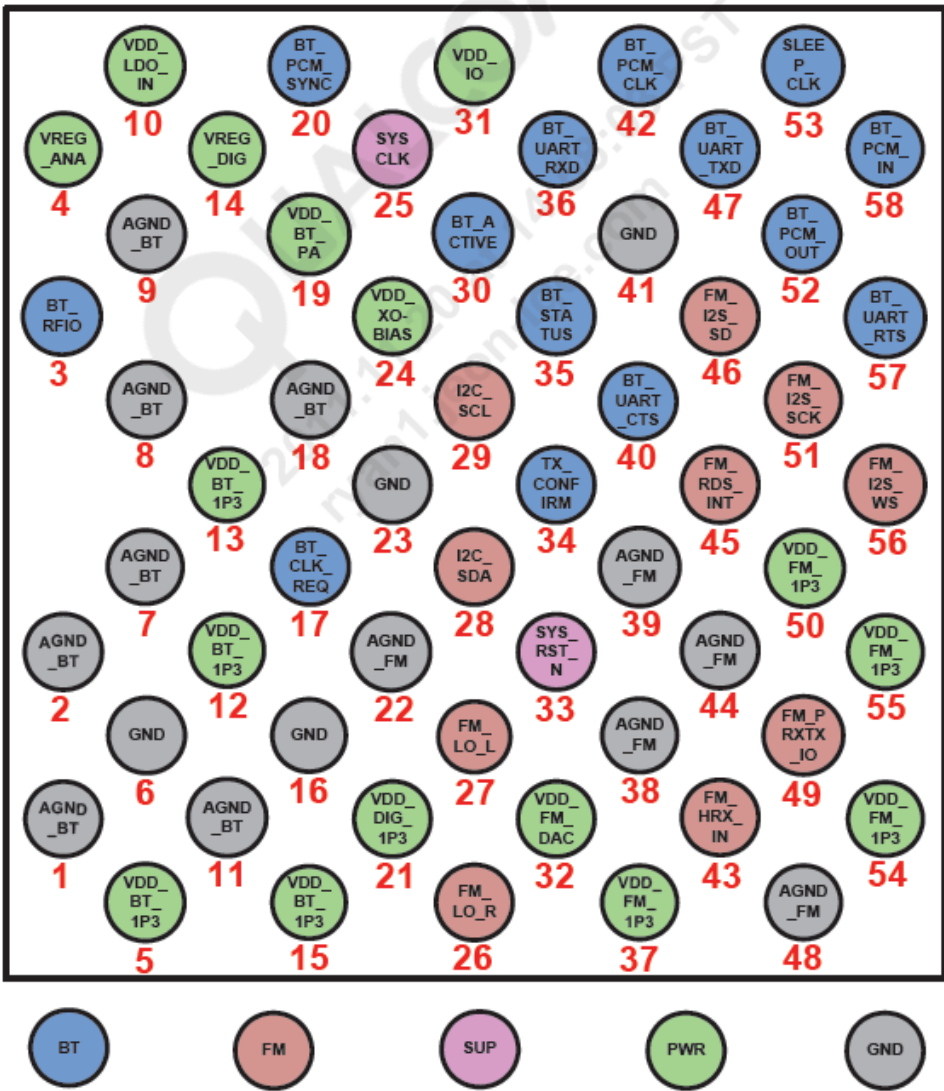
U1000 - RTR6285A (Top View)

|   | 1             | 2        | 3        | 4     | 5       | 6     | 7              | 8              | 9              | 10      | 11      | 12              | 13              |  |
|---|---------------|----------|----------|-------|---------|-------|----------------|----------------|----------------|---------|---------|-----------------|-----------------|--|
| A | GND           | TX_RB1AS | DAC_IREF | TX_IP | VDDA2   | VDDA2 | HB_RF_O<br>UT3 | HB_RF_O<br>UT1 | LB_RF_OU<br>T1 | VDDA1   | POET_IN | GND             |                 |  |
| B | VDDA2         | GND      | TX_QP    | TX_QN | TX_IN   | VDDA2 | GND            | GND            | LB_RF_OU<br>T2 | VDDA2   | GND     | EGSM_INN        | GCELL_IN<br>N   |  |
| C | TCXO          | GND      |          |       |         |       |                |                |                |         |         | EGSM_INP        | GCELL_IN<br>P   |  |
| D | VDDA1         | VDDA1    |          | GND   | GND     | GND   | GND            | GND            | GND            | GND     |         | GPCS_INN        | DCS_INN         |  |
| E | VTUNE1        | GND      |          | GND   | GND     | GND   | GND            | GND            | GND            | GND     |         | GPCS_INP        | DCS_INP         |  |
| F | VDDA1         | VDDA2    |          | GND   | GND     | GND   | GND            | GND            | GND            | GND     |         | GND             | VDDA2           |  |
| G | VTUNE_G<br>PS | VDDA2    |          | GND   | GND     | GND   | GND            | GND            | GND            | GND     |         | GND             | GPS_IN          |  |
| H | VDDA1         | VDDA1    |          | GND   | GND     | GND   | GND            | GND            | GND            | GND     |         | GND             | VDDA1           |  |
| J | PRX_QP        | PRX_QN   |          | GND   | GND     | GND   | GND            | GND            | GND            | GND     |         | WPRXSE1         | WPRXSE2         |  |
| K | PRX_IN        | PRX_IP   |          | GND   | GND     | GND   | GND            | GND            | GND            | GND     |         | GND             | WPRXSE1         |  |
| L | DRX_QP        | DRX_QN   |          |       |         |       |                |                |                |         |         | VDDA2           | WPRXSE2         |  |
| M | DRX_IP        | DRX_IN   | SBOT     | VDDA1 | VDD_MSM | VDDA2 | RF_ON          | WB_MX_I<br>NM  | WPRXLBM        | GND     | GND     | GND             | WPRXSE1<br>_OUT |  |
| N | GND           | NC       | VDDA2    | VDDA1 | VTUNE2  | VDDA2 | VDDA2          | WB_MX_I<br>NP  | WPRXLBP        | WPRXSE1 | WPRXSE2 | WPRXSE2<br>_OUT | GND             |  |
|   | 1             | 2        | 3        | 4     | 5       | 6     | 7              | 8              | 9              | 10      | 11      | 12              | 13              |  |

○ USE

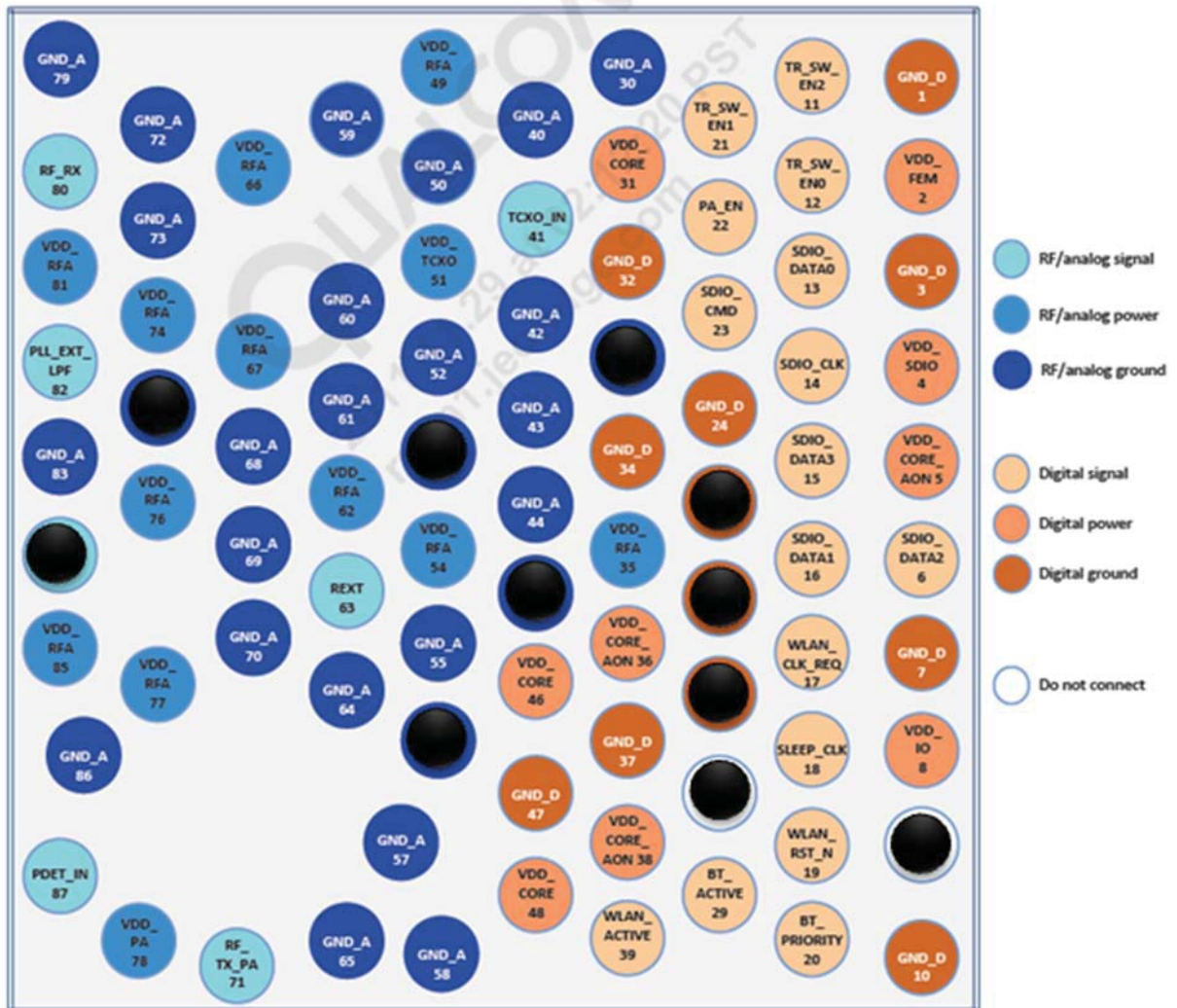
● NOT IN USE

### U800 – WCN2243 (BT/FM) (Top View)



### WCN2243 IC pin assignments, top view

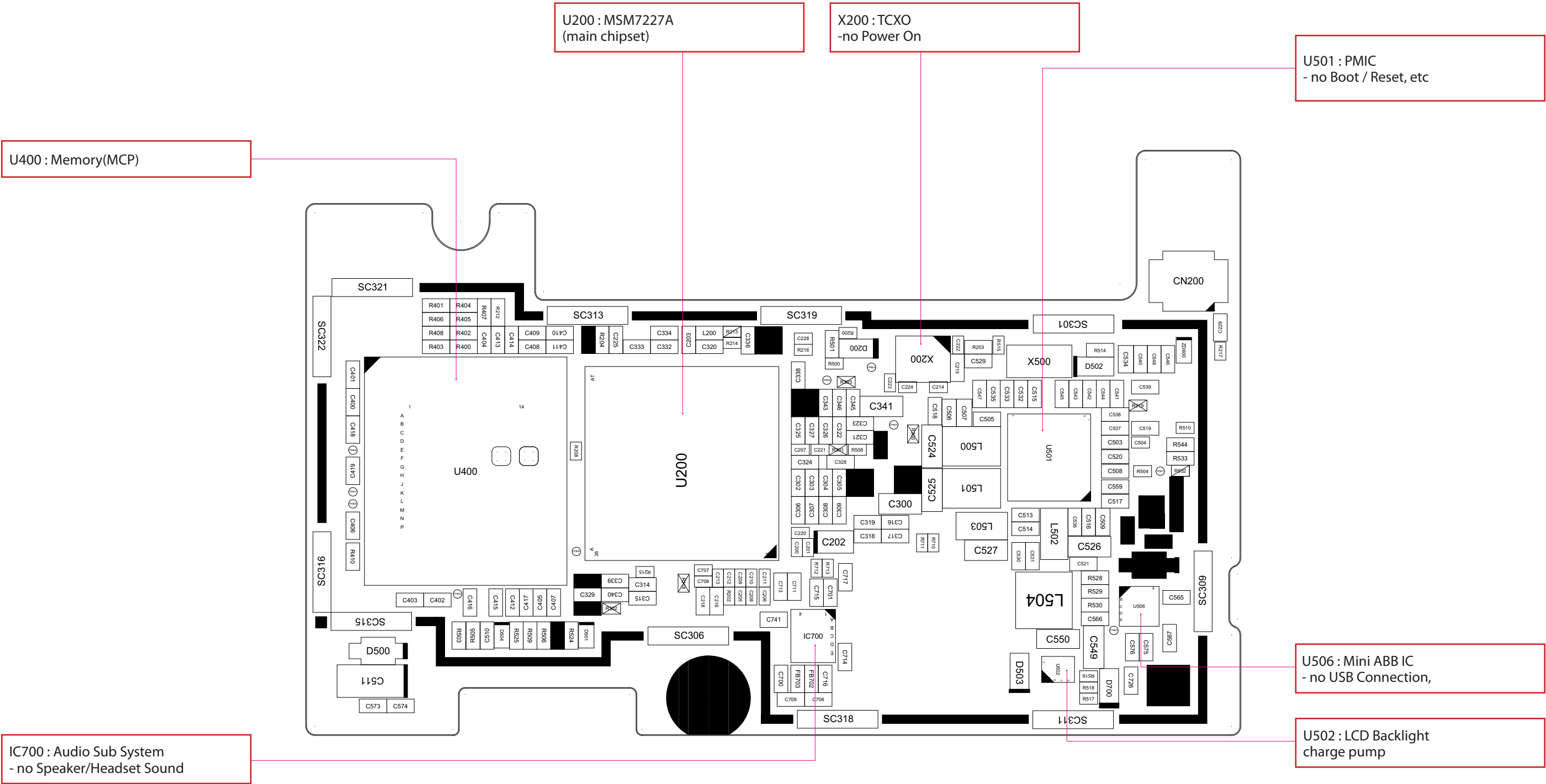
### U802– WCN1314 (WiFi) (Top View)



WCN1314 IC pin assignments (top view)

- USE  
● NOT IN USE

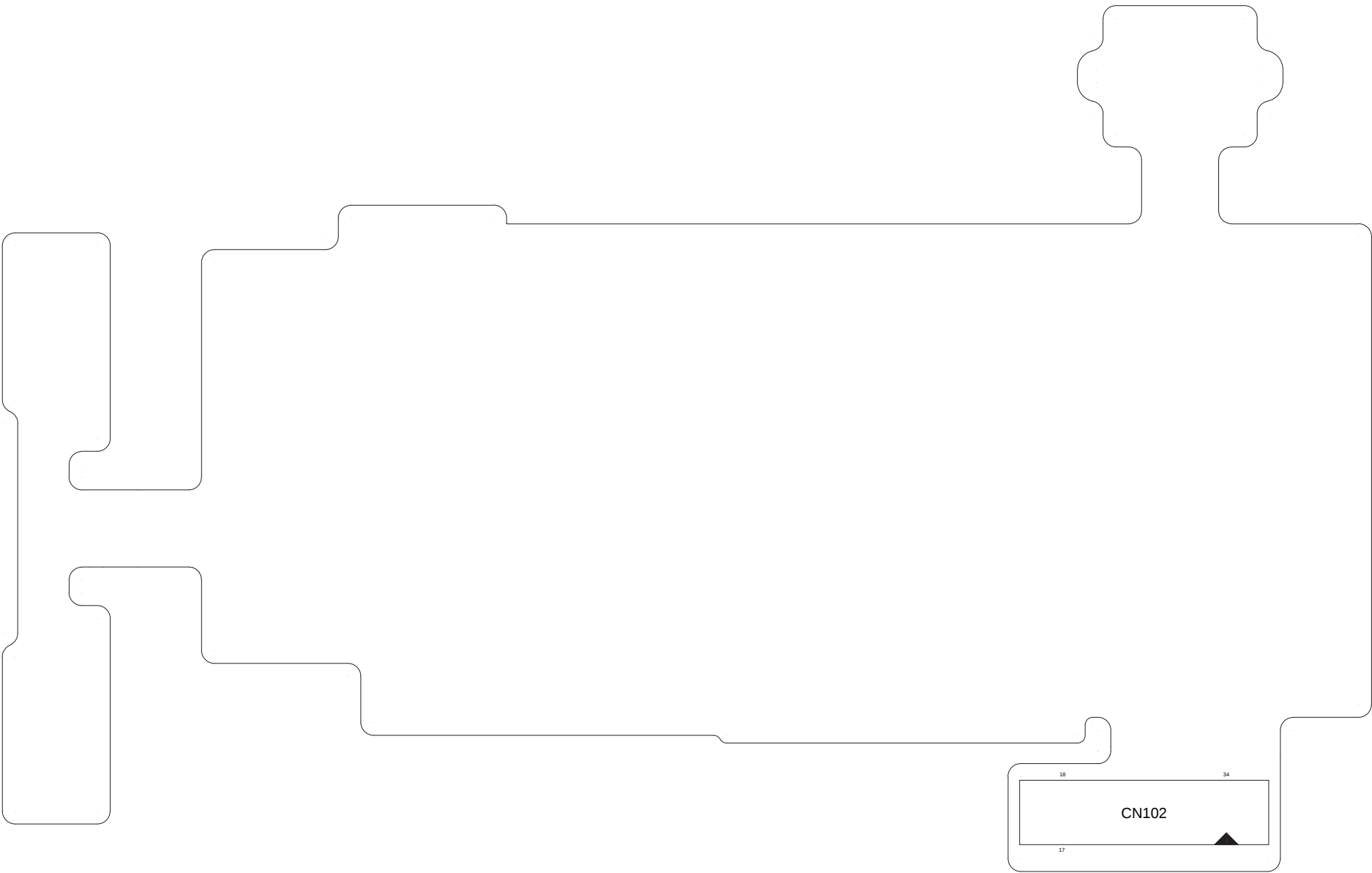
9. PCB LAYOUT



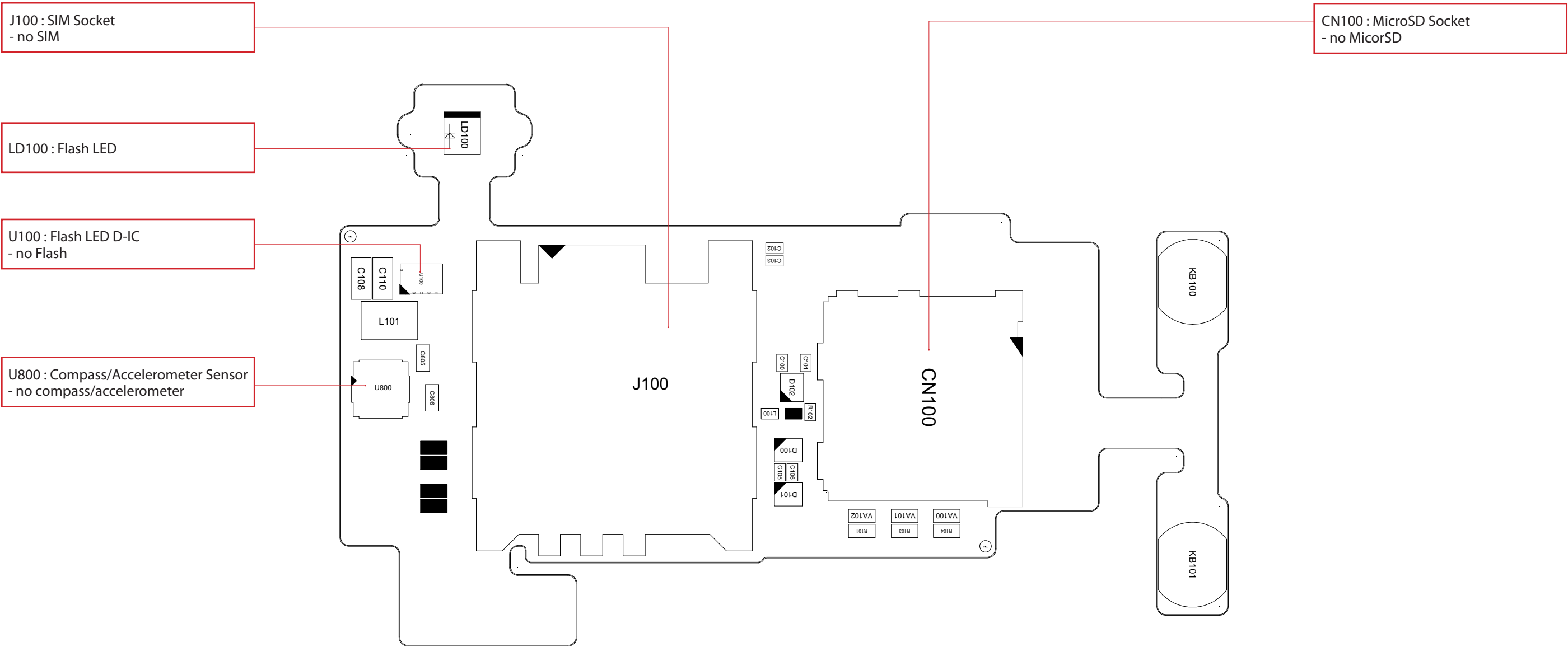
LG-P705\_MAIN\_EAX64550001-1.0-TOP



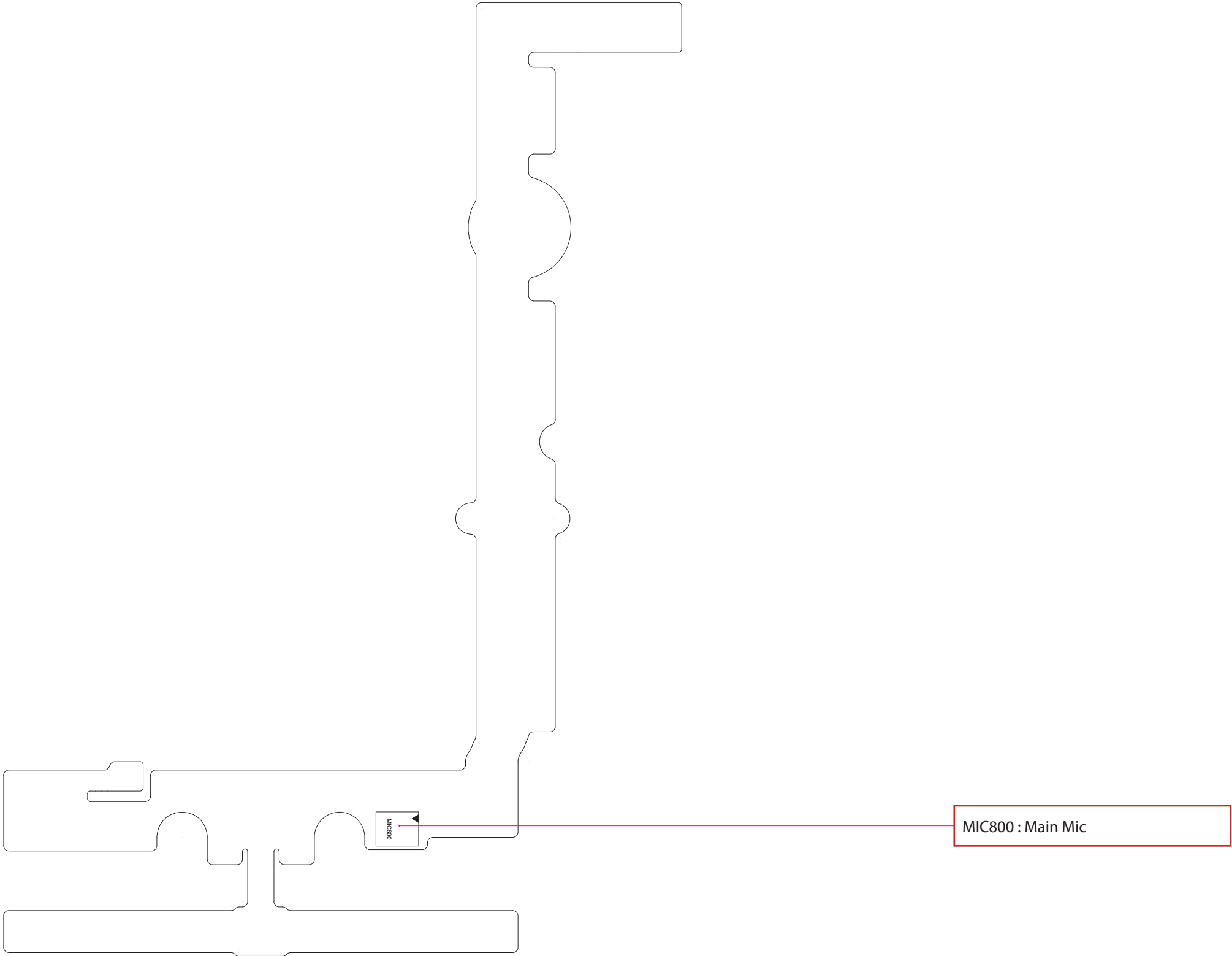
LG-P705\_MAIN\_EAX64550001-1.0\_BOT



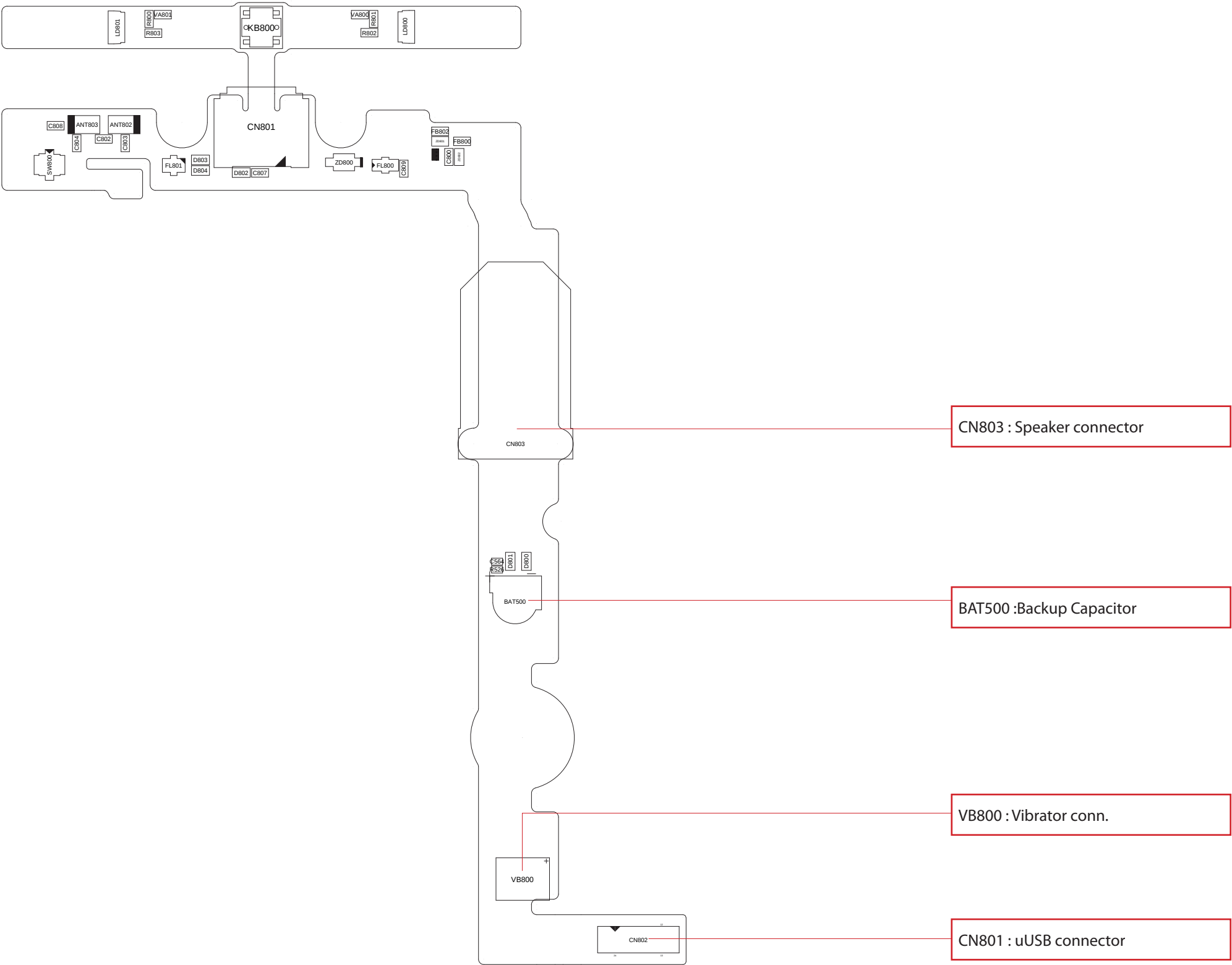
LG-P705\_F\_SUB-1.1-TOP



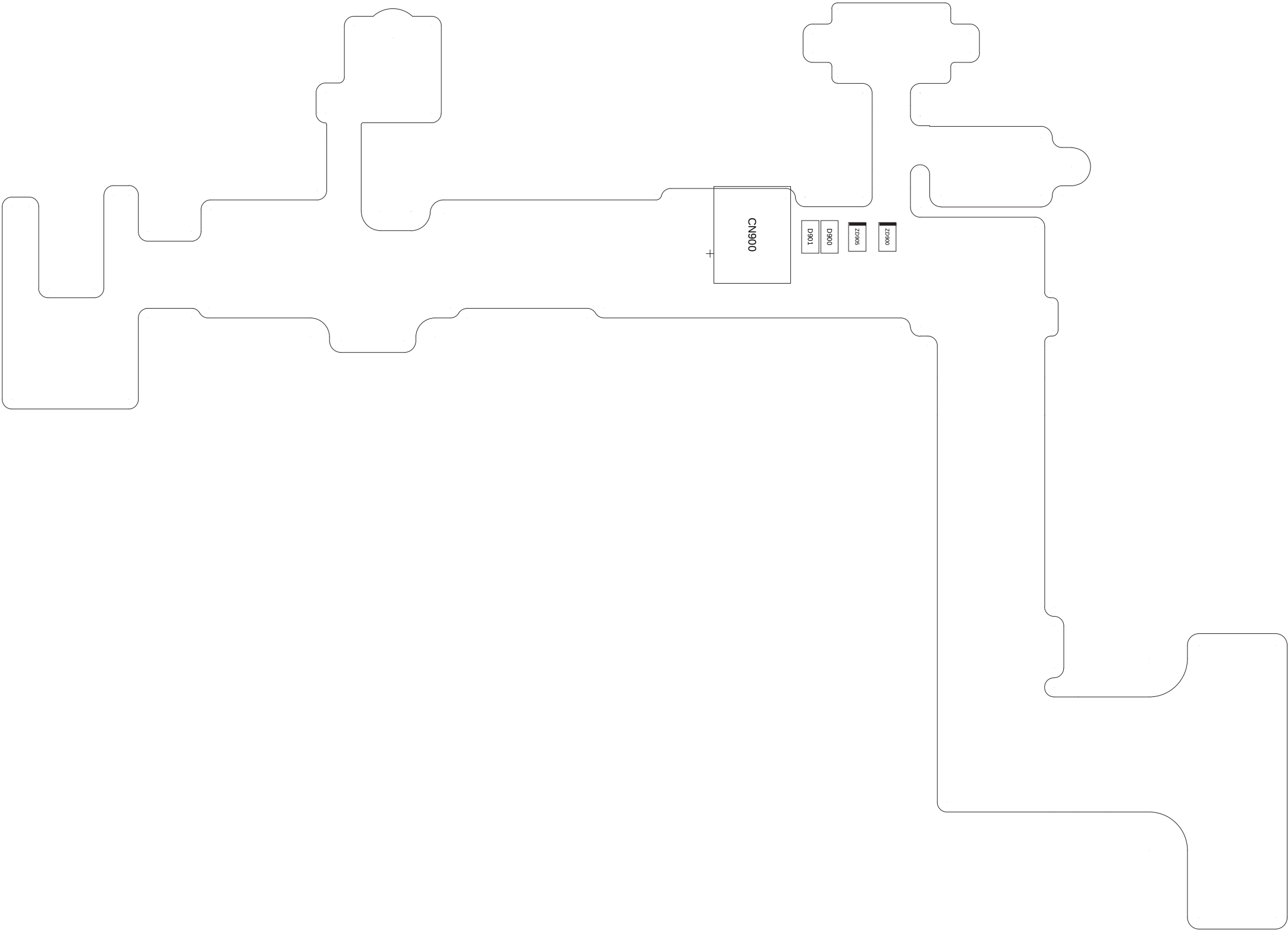
LG-P705\_F\_SUB-1.1-BOT



LG-P705\_F\_LOWER-1.0-TOP



LG-P705\_F\_LOWER-1.0-BOT

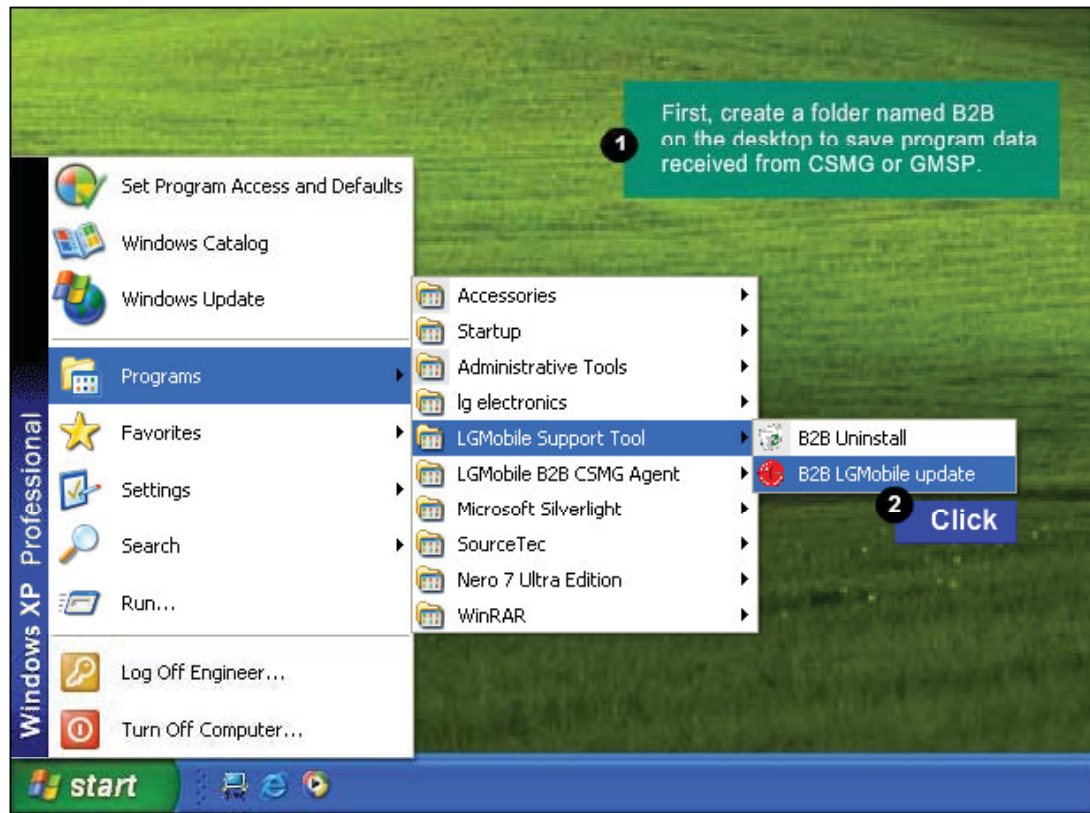


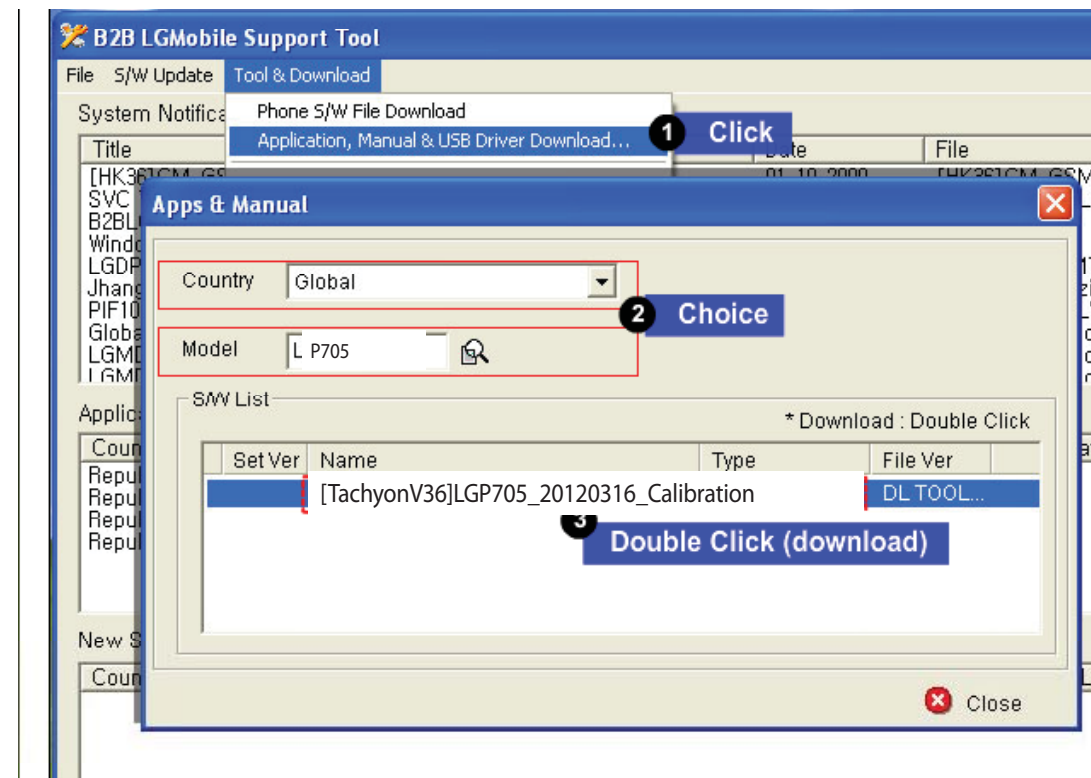
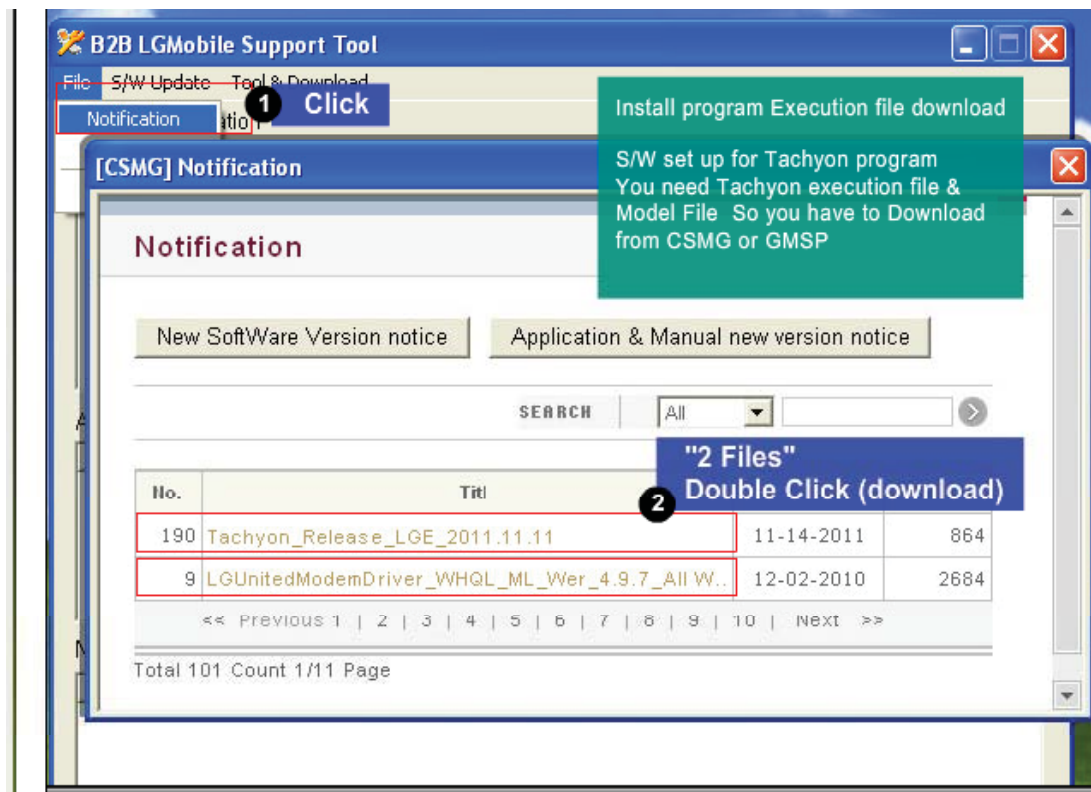
LG-P705\_F\_UPPER\_EAX64667901-1.1-TOP

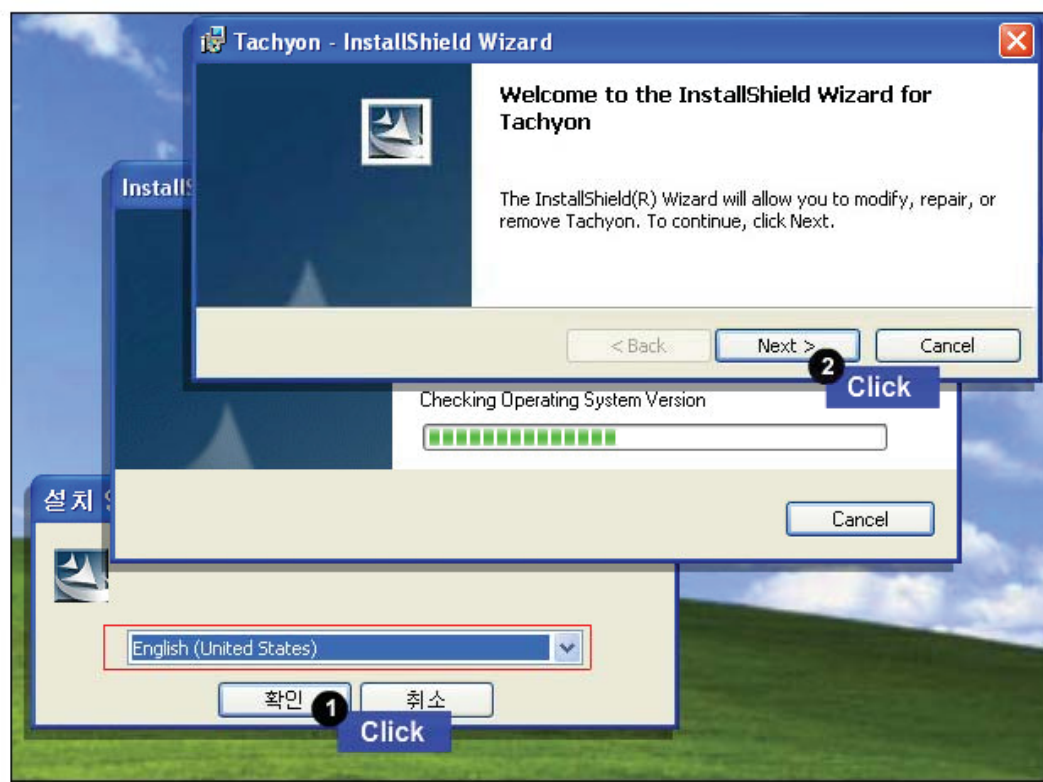
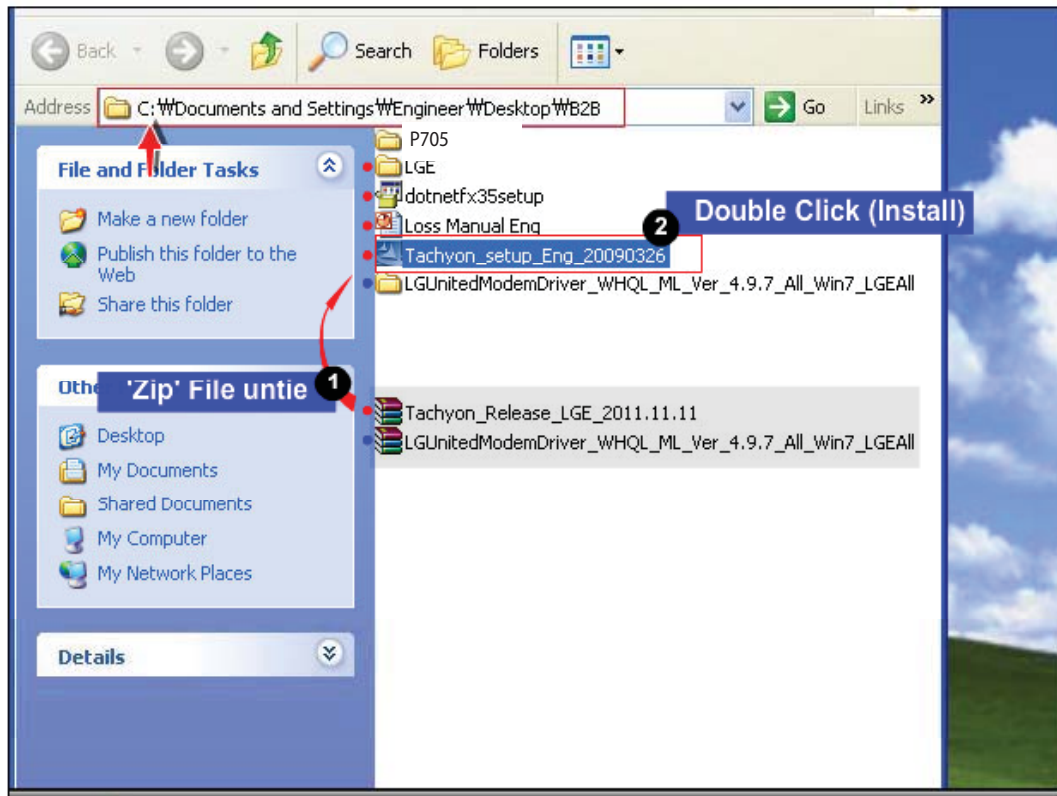


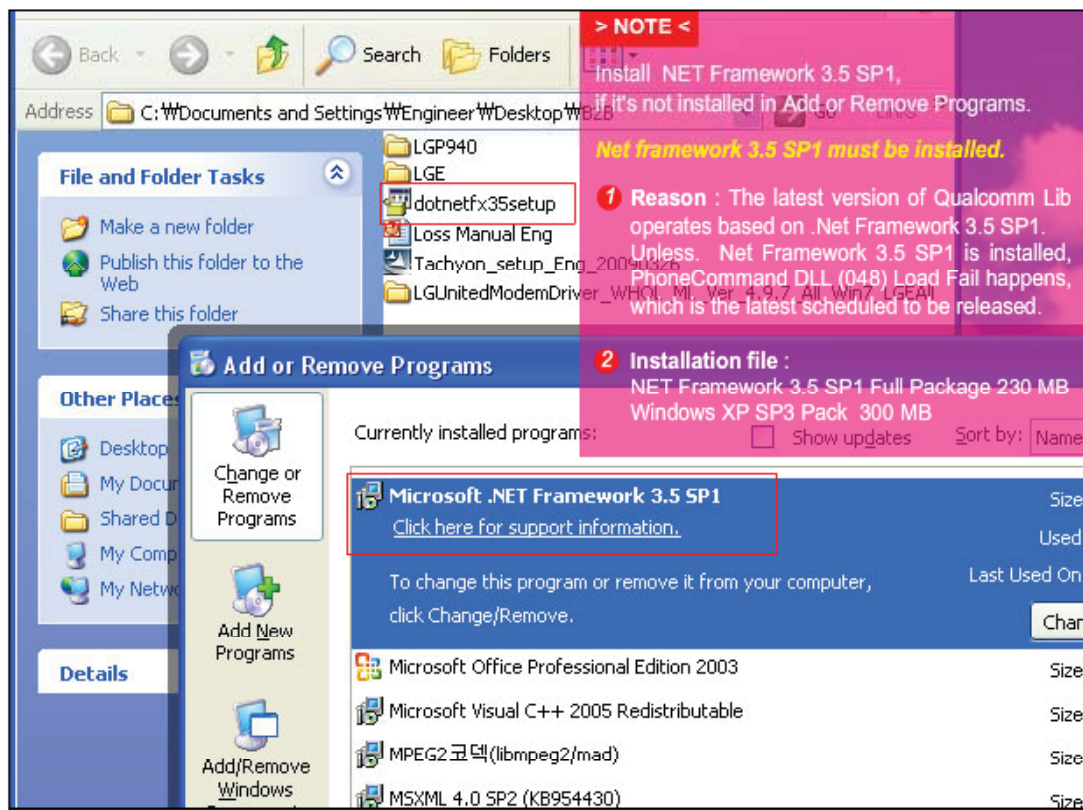
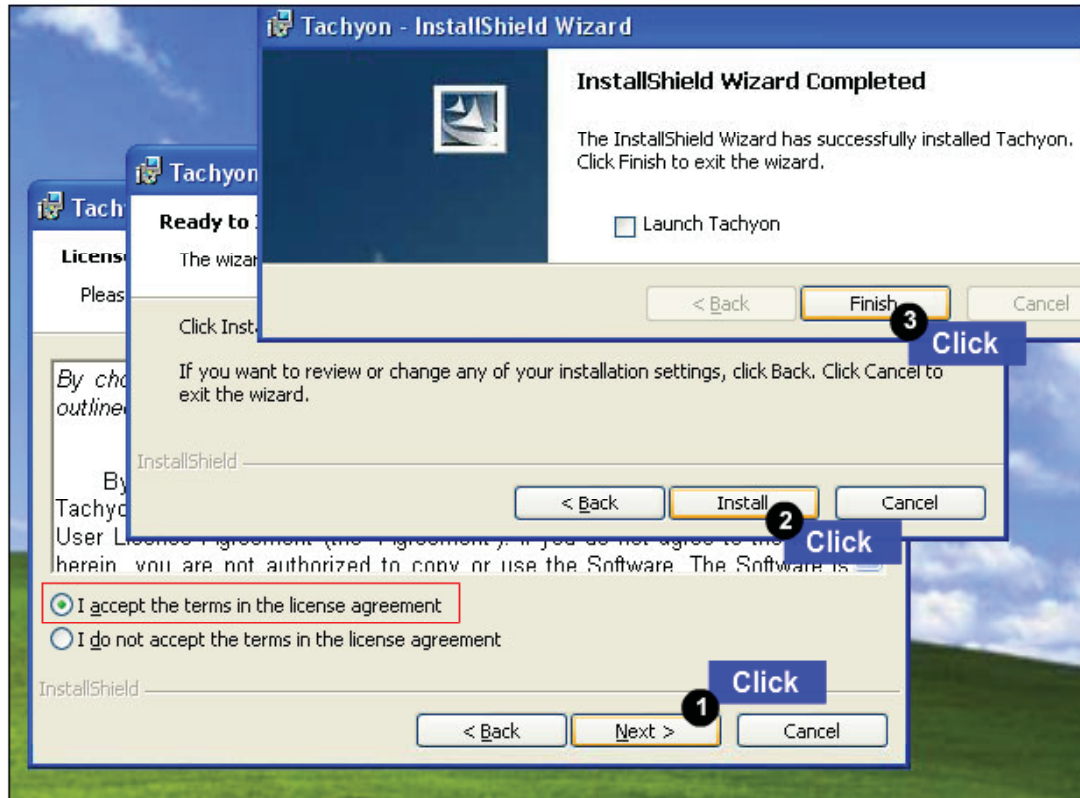
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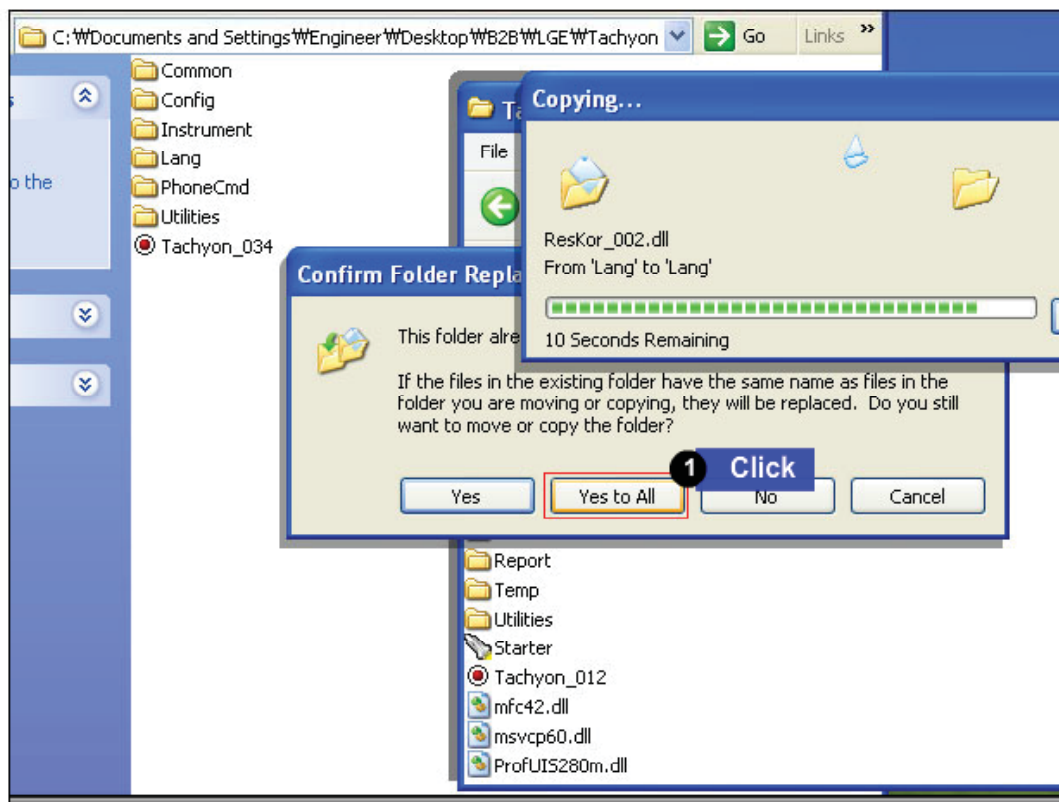
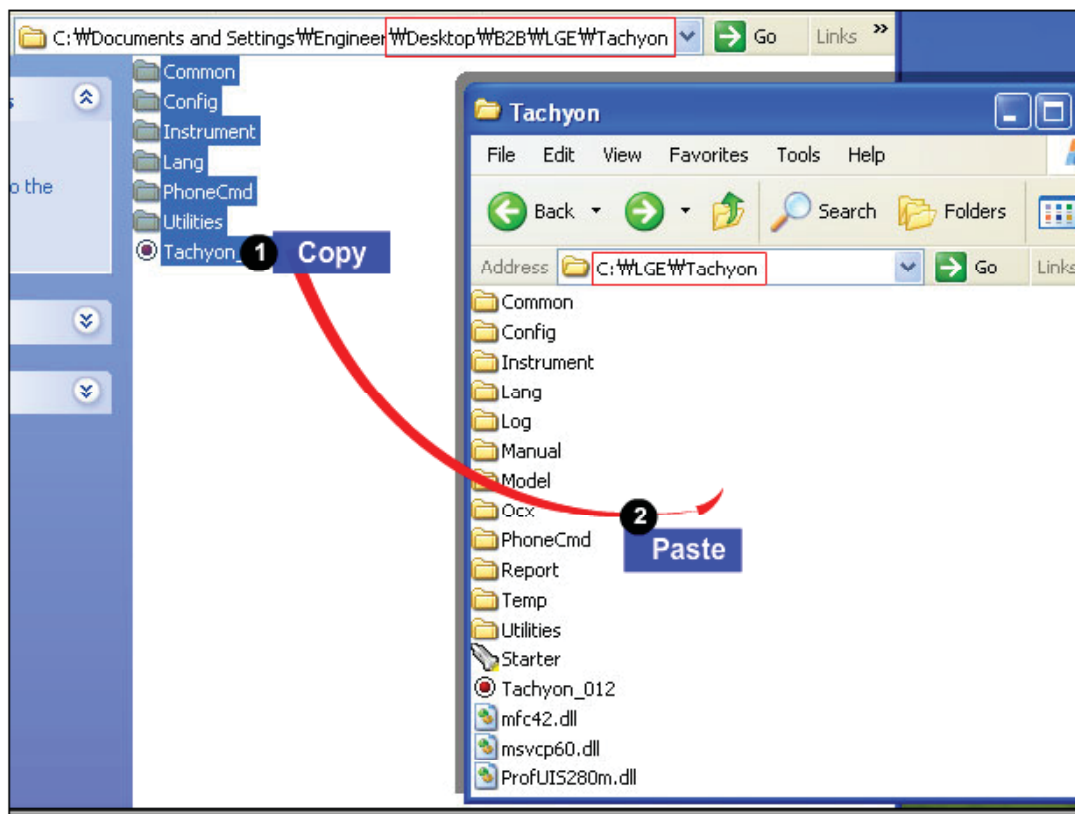
| CAL INFORMATION                                |                   |             |
|------------------------------------------------|-------------------|-------------|
| S/W VERSION                                    |                   |             |
| [TachyonV36]LGP705_20120316_Calibration        |                   |             |
| <b>Please check the final version to "B2B"</b> |                   |             |
| H/W                                            |                   |             |
|                                                | Name              | Part No.    |
| PIF                                            | PIF200(All Type)  | BJAY0024021 |
| USB Cable                                      | USB Cable         | RAD32247898 |
| Power Cable                                    | DC Power Cable    | RAD32247878 |
| I/O Cable                                      | 5P E-SATA_DC_Plug | RAD32167861 |
| RF Cable_Main                                  | MS-156C           | BJAY0024004 |
| Power Supply_PIF                               | Power Supply 5.3V |             |
| Power Supply_Phone                             | Power Supply 5.0V |             |
| RF Test Equipment                              | E5515C(8960)      |             |

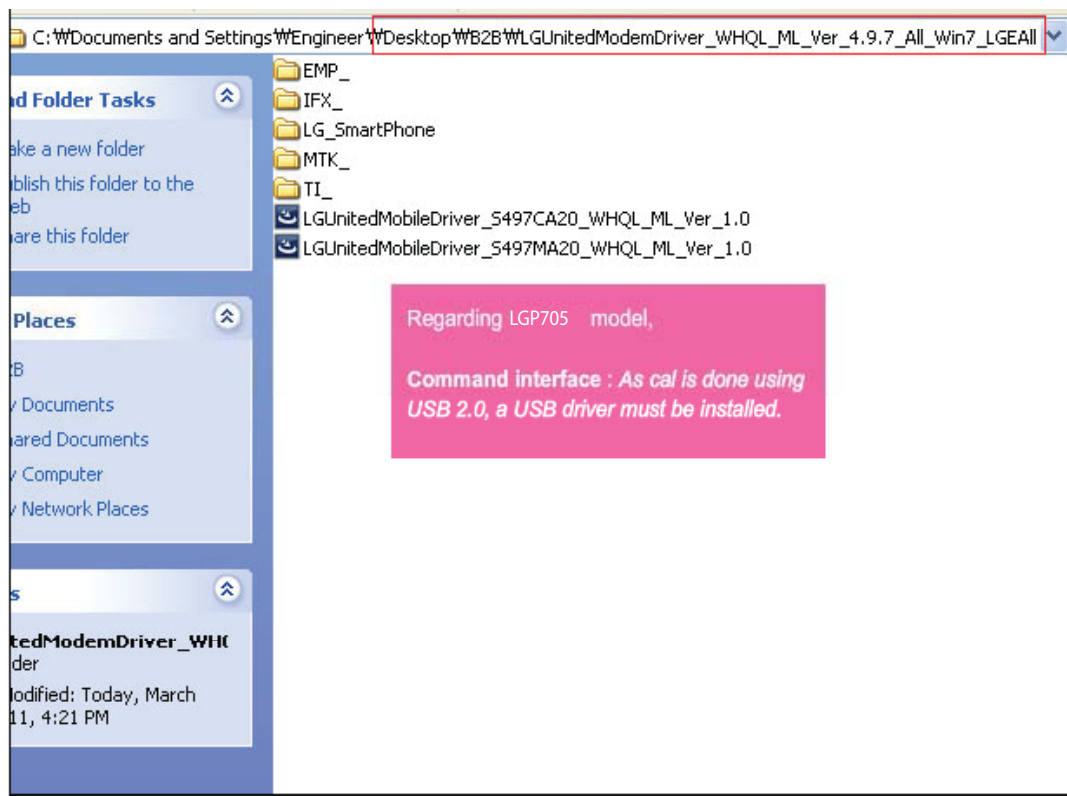
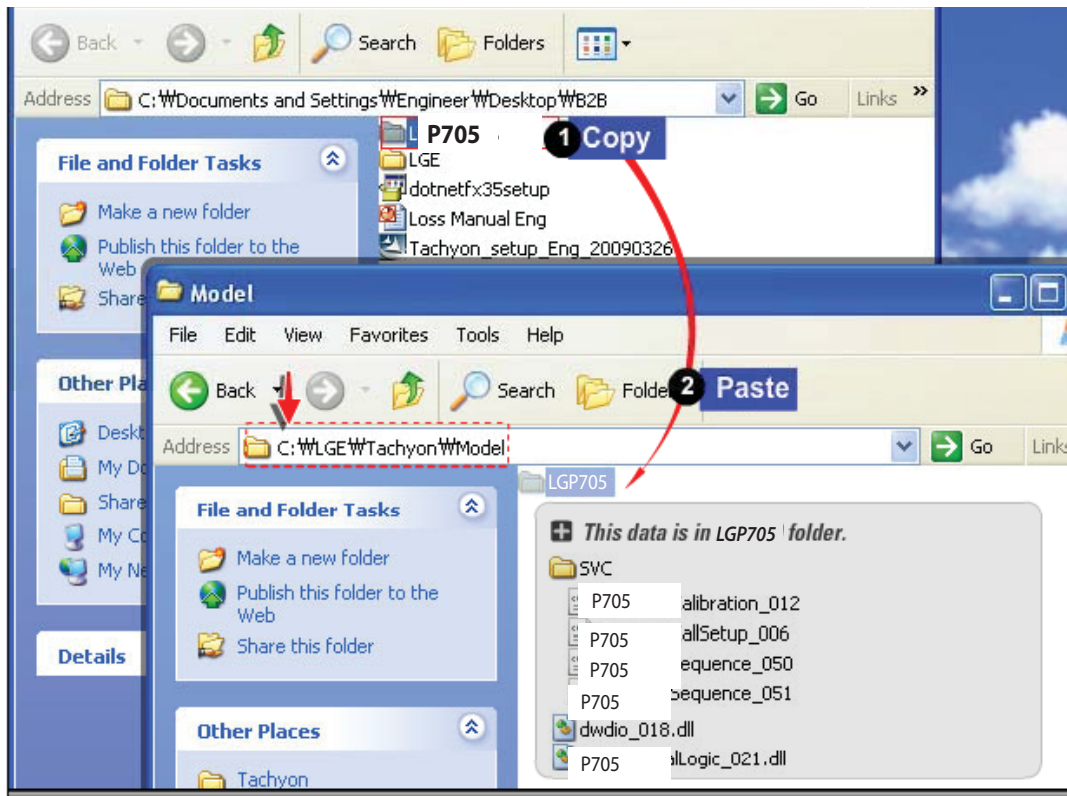


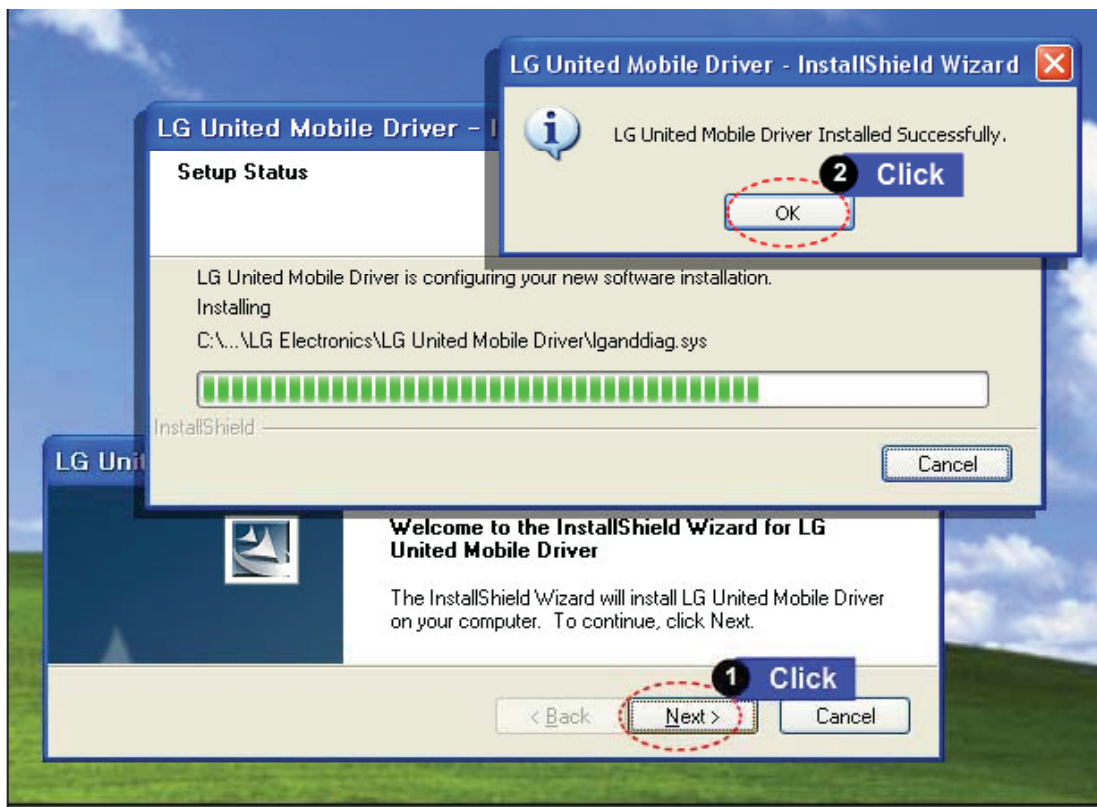
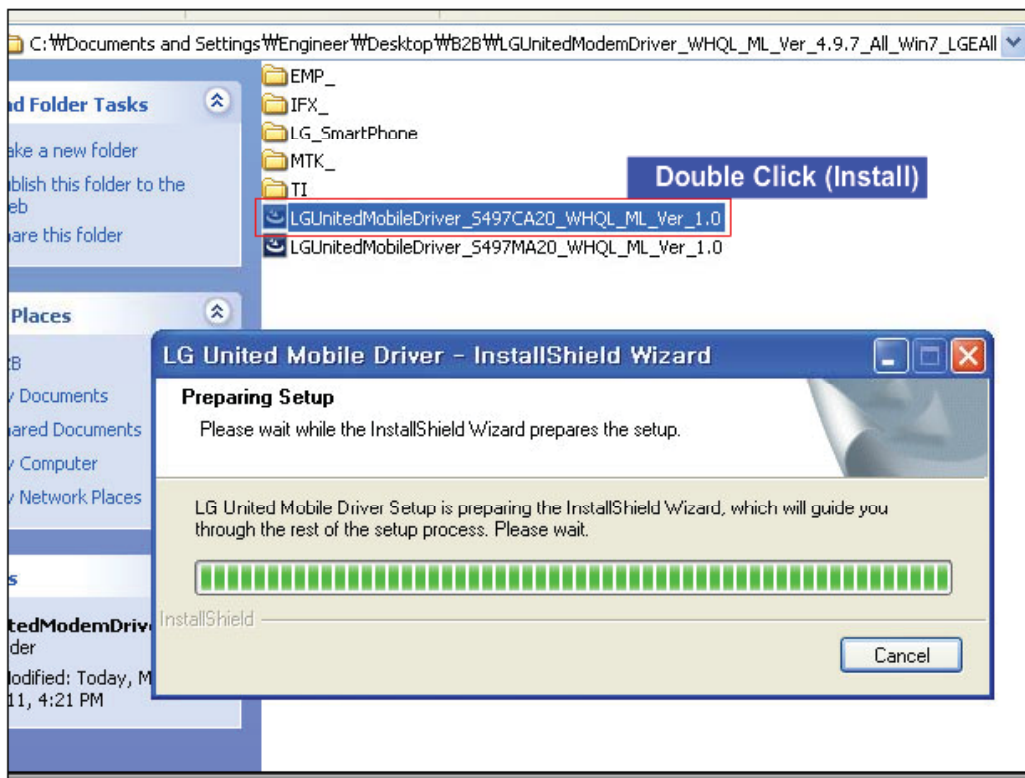


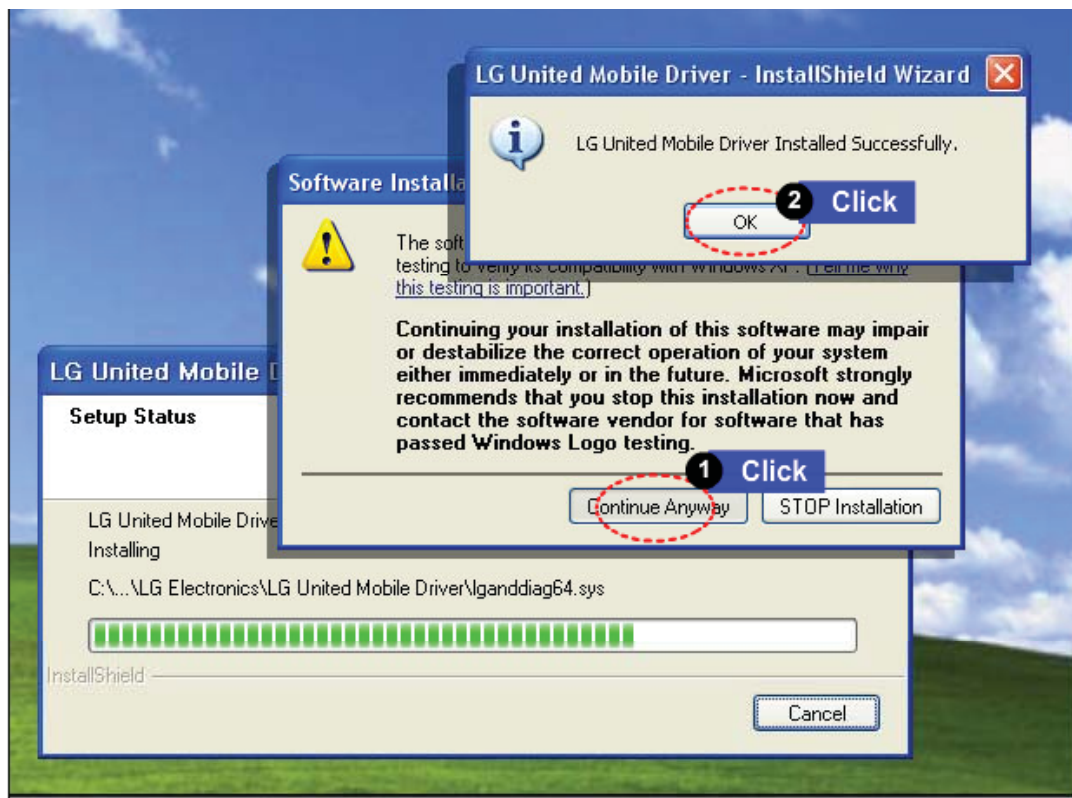
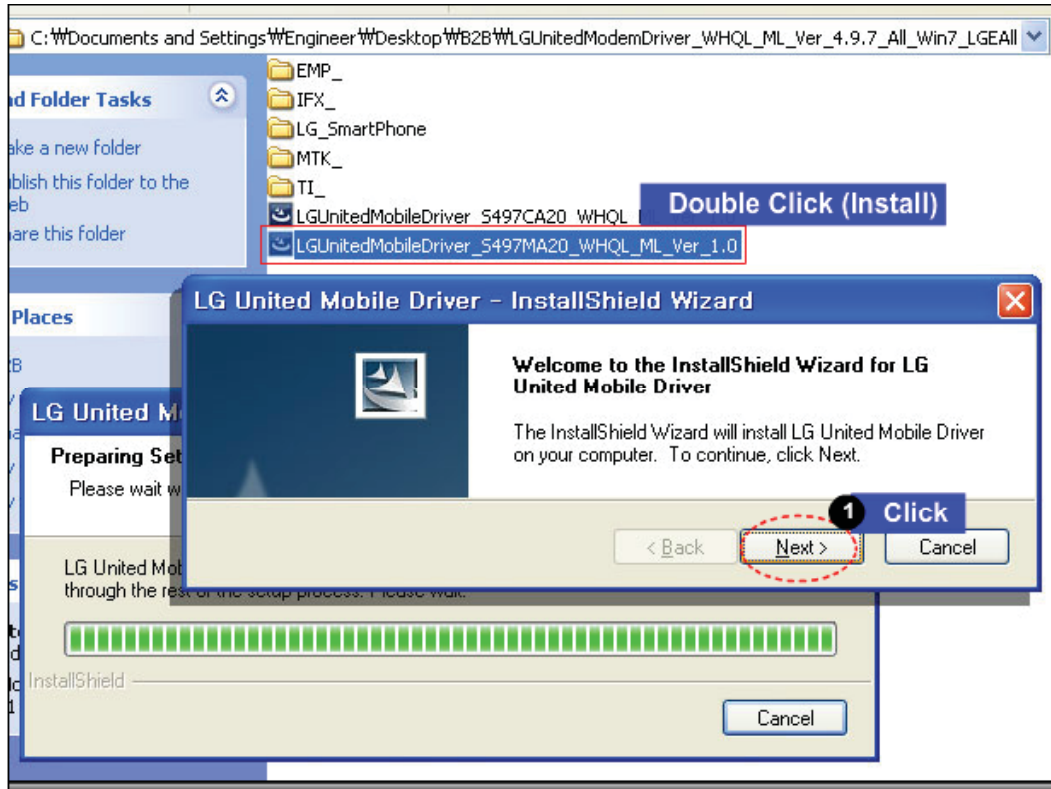




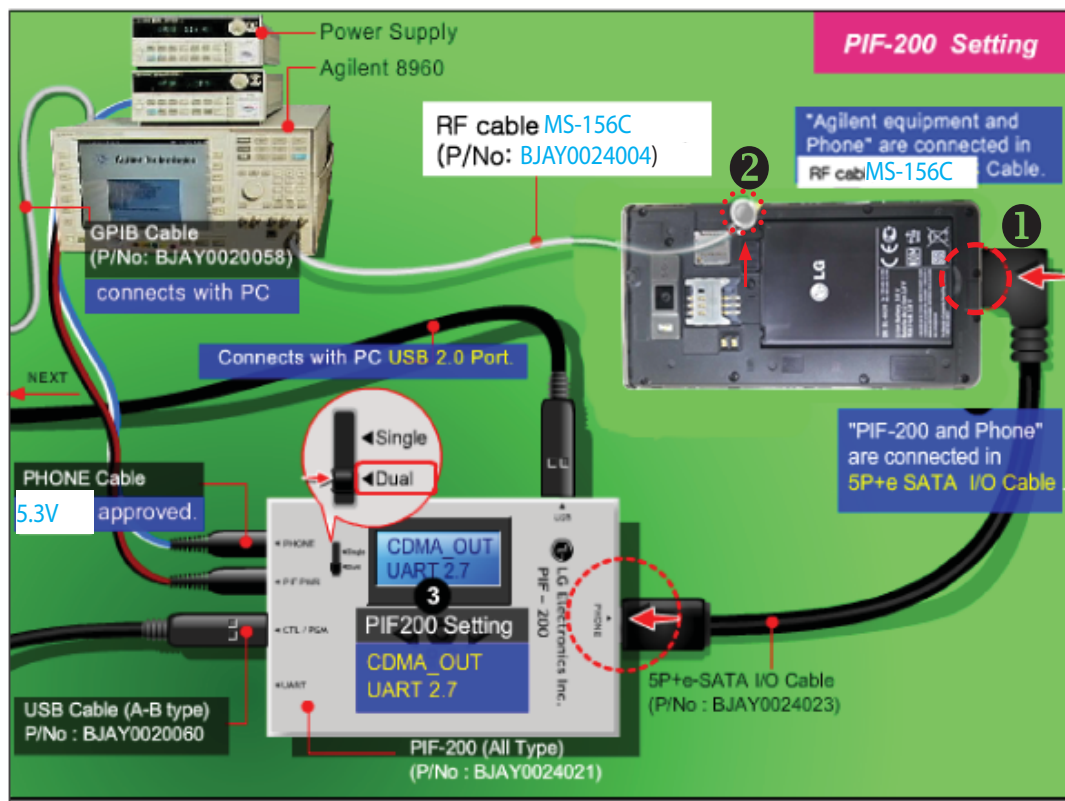
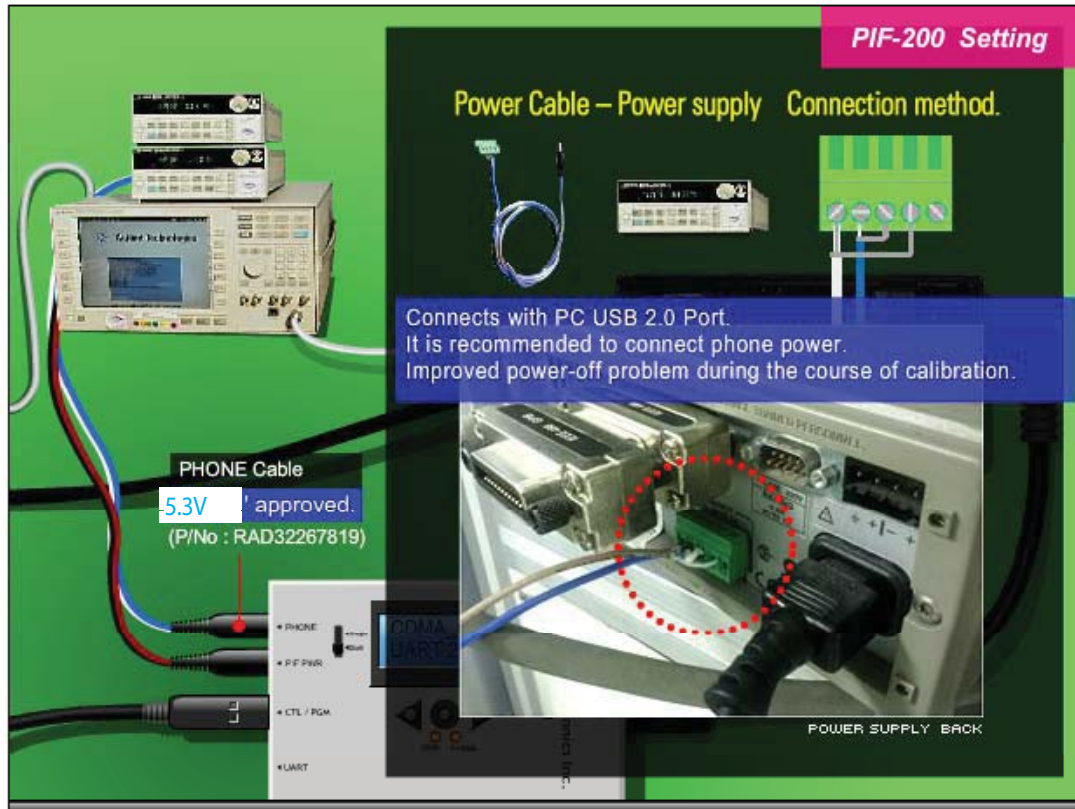


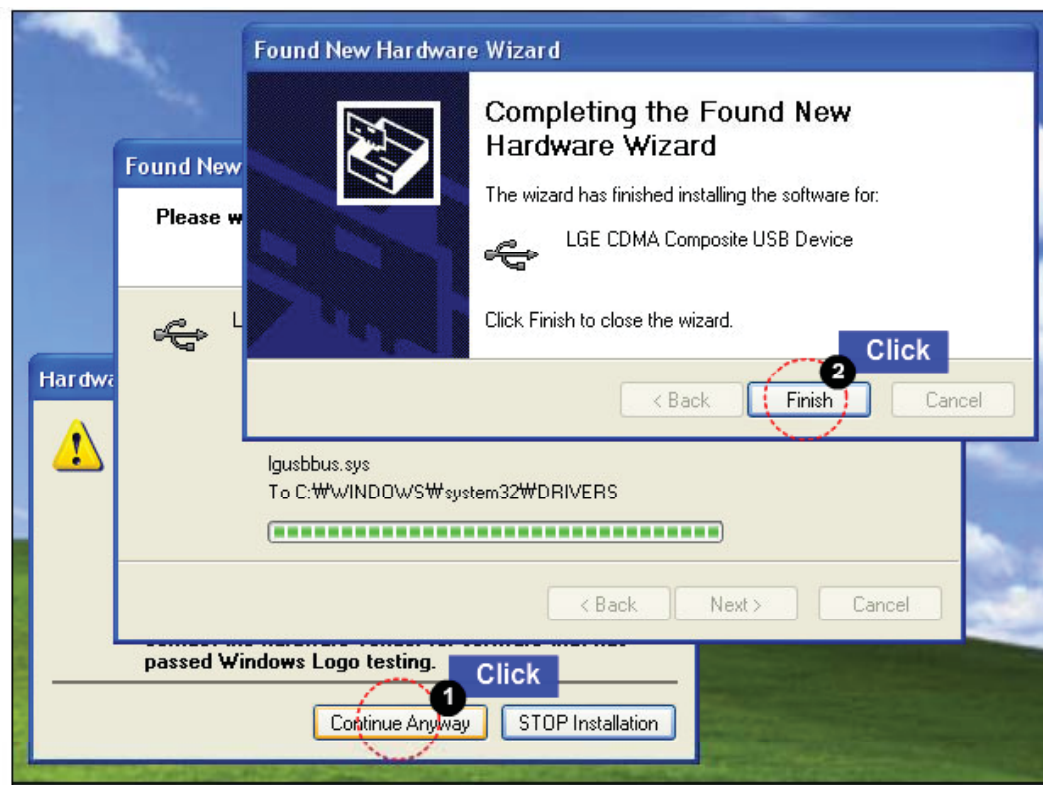
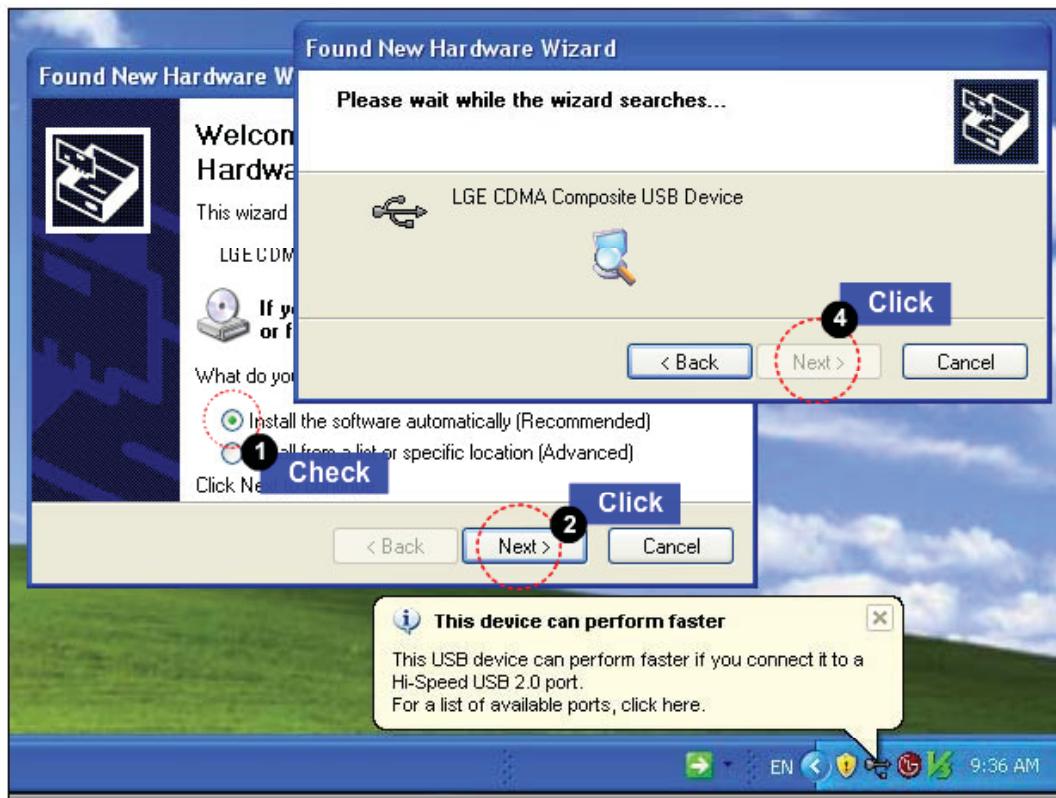


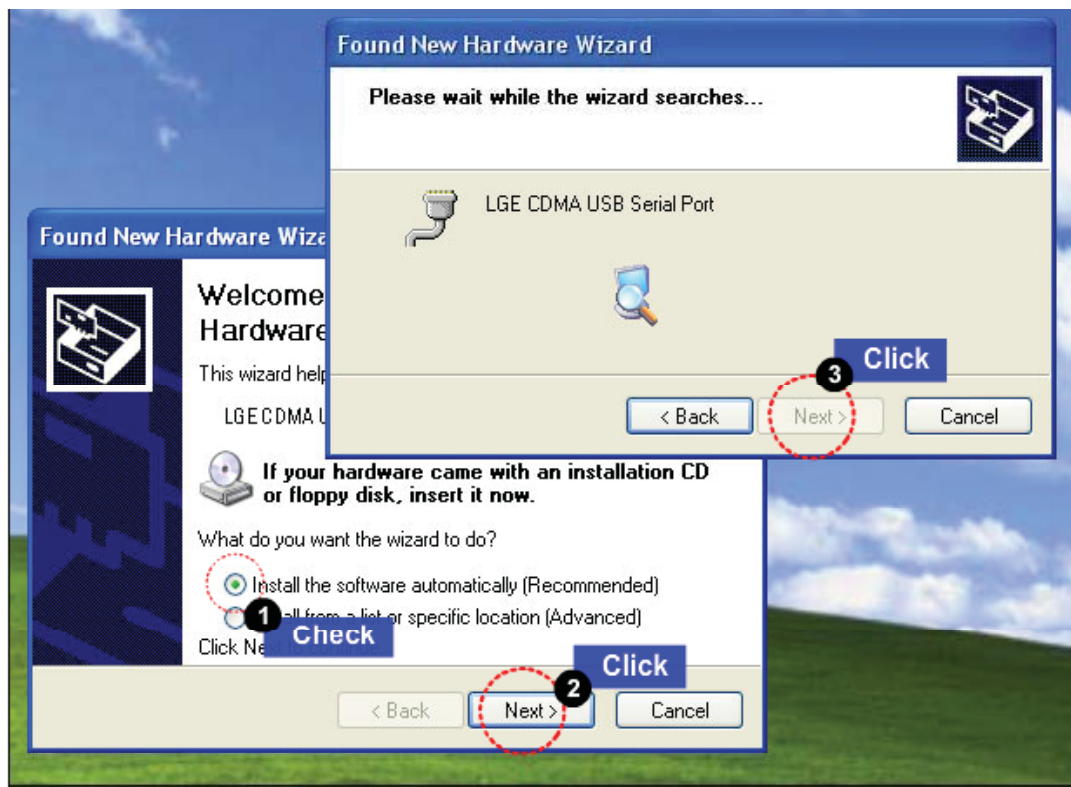
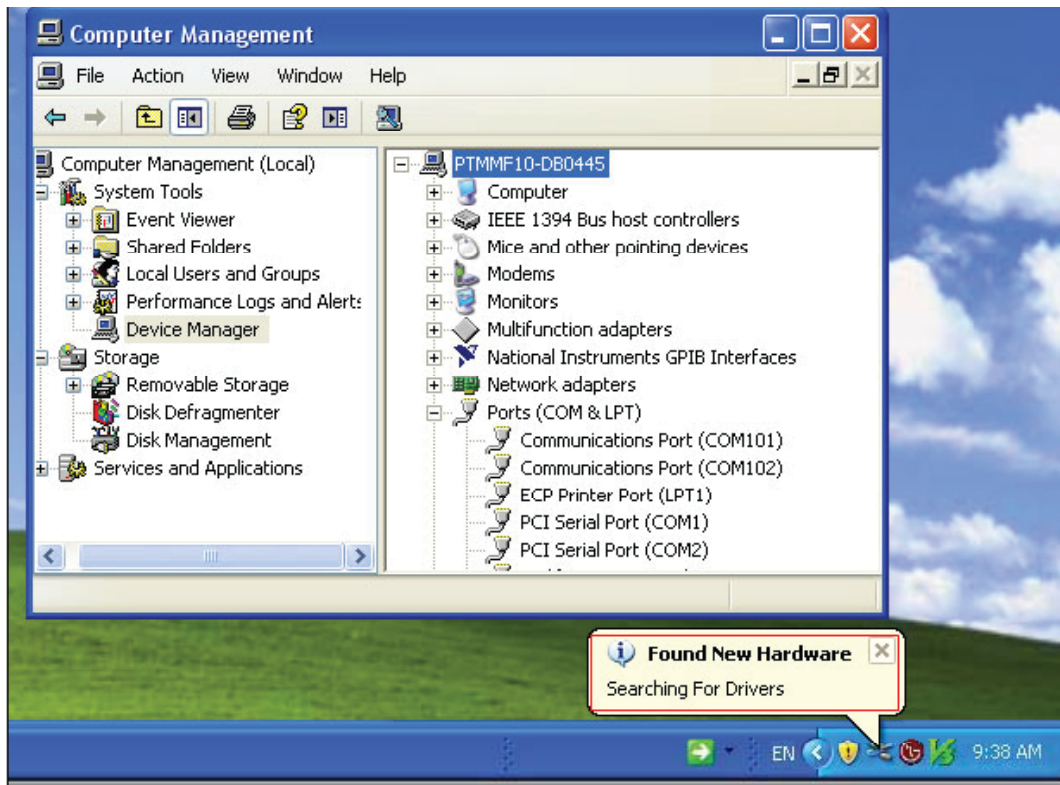


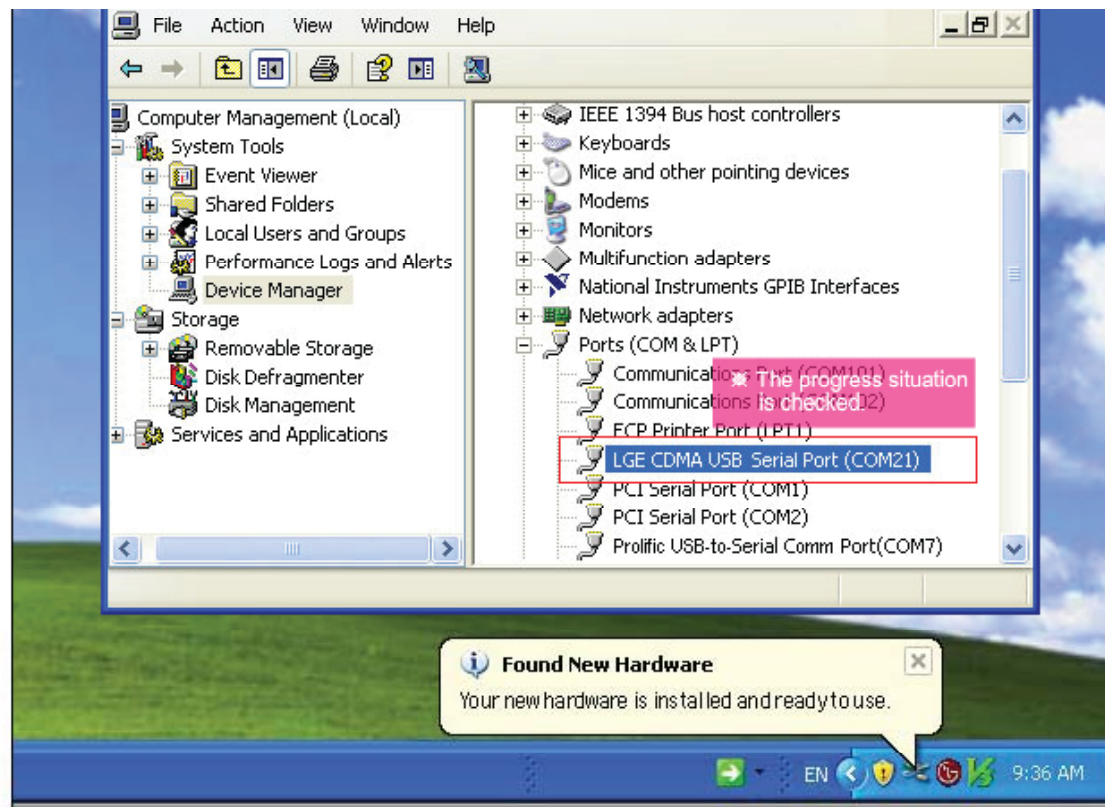
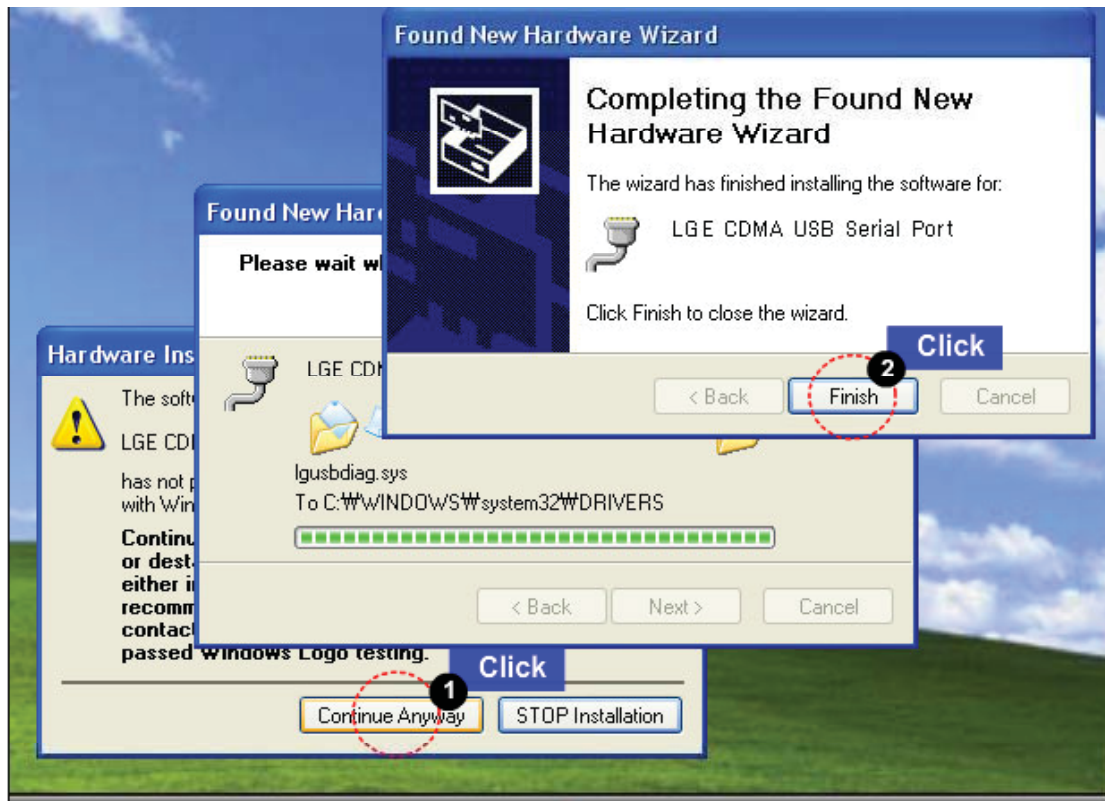


## 10. CALIBRATION

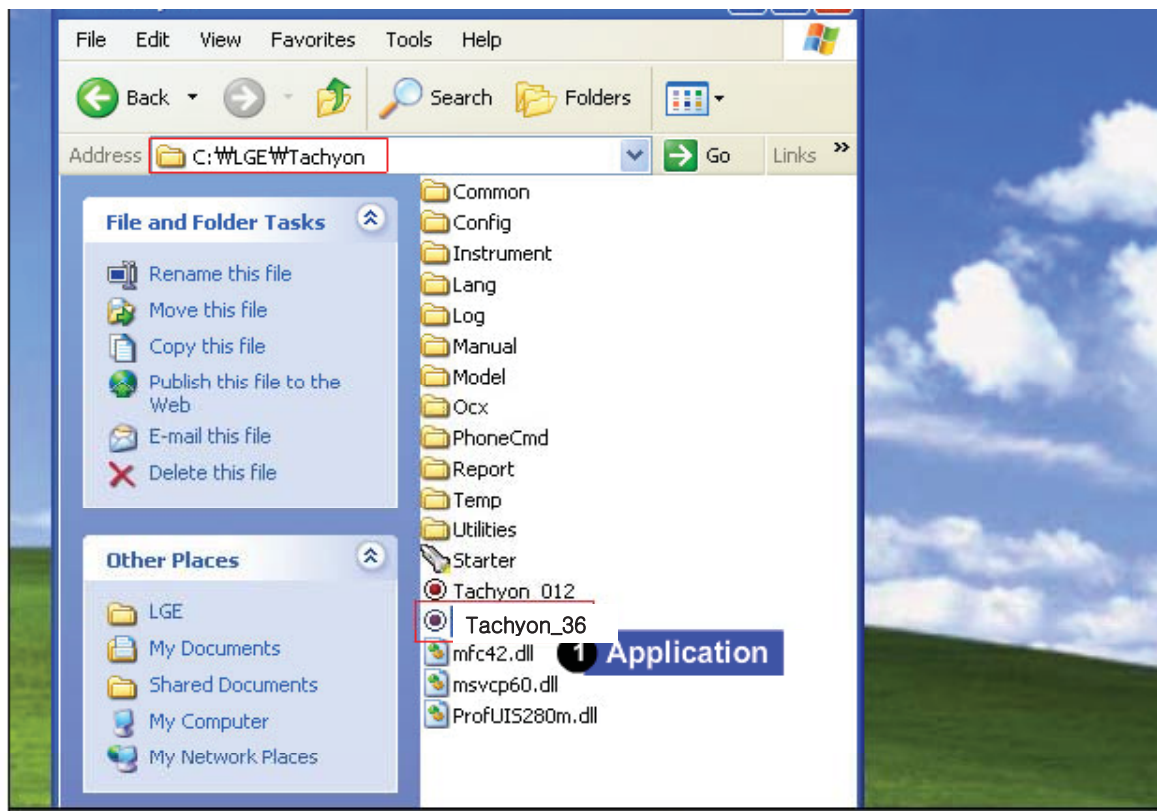
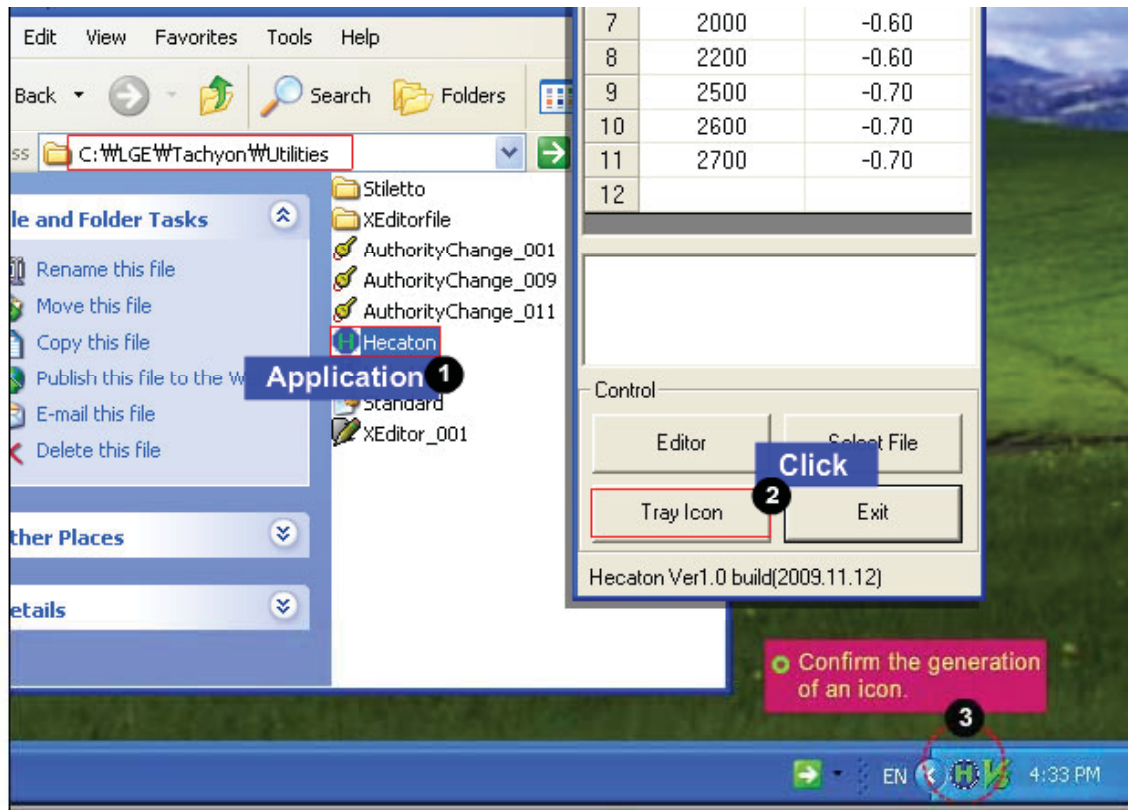




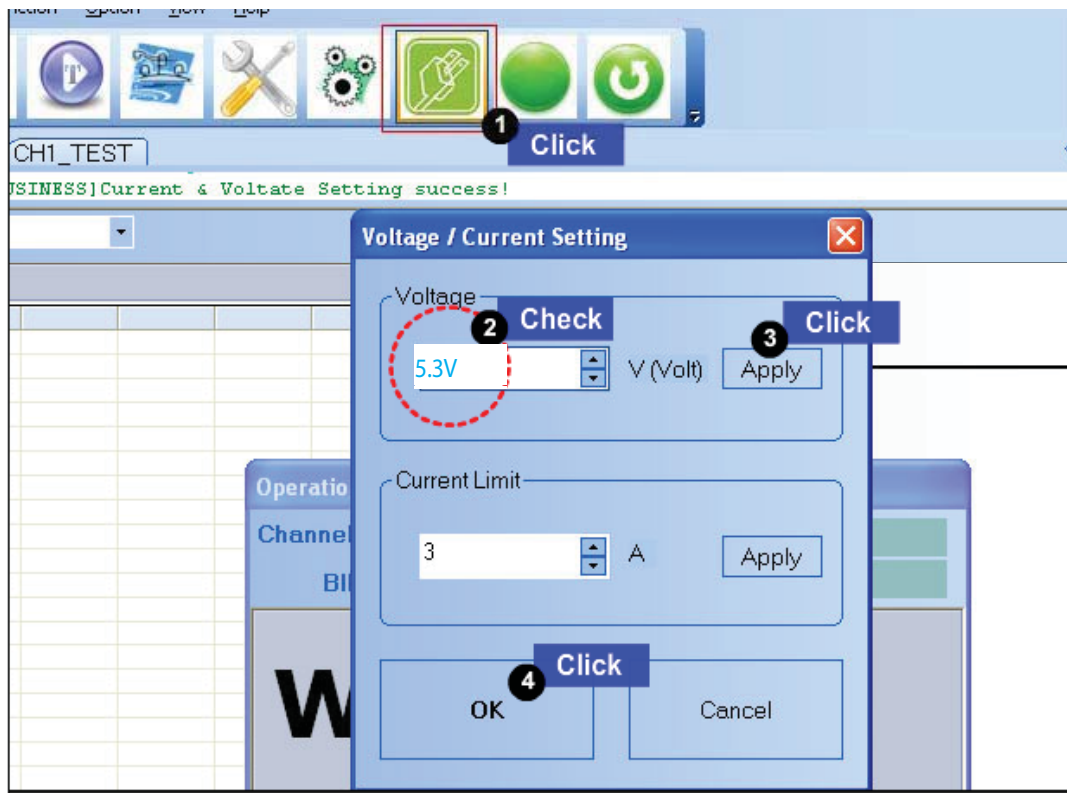
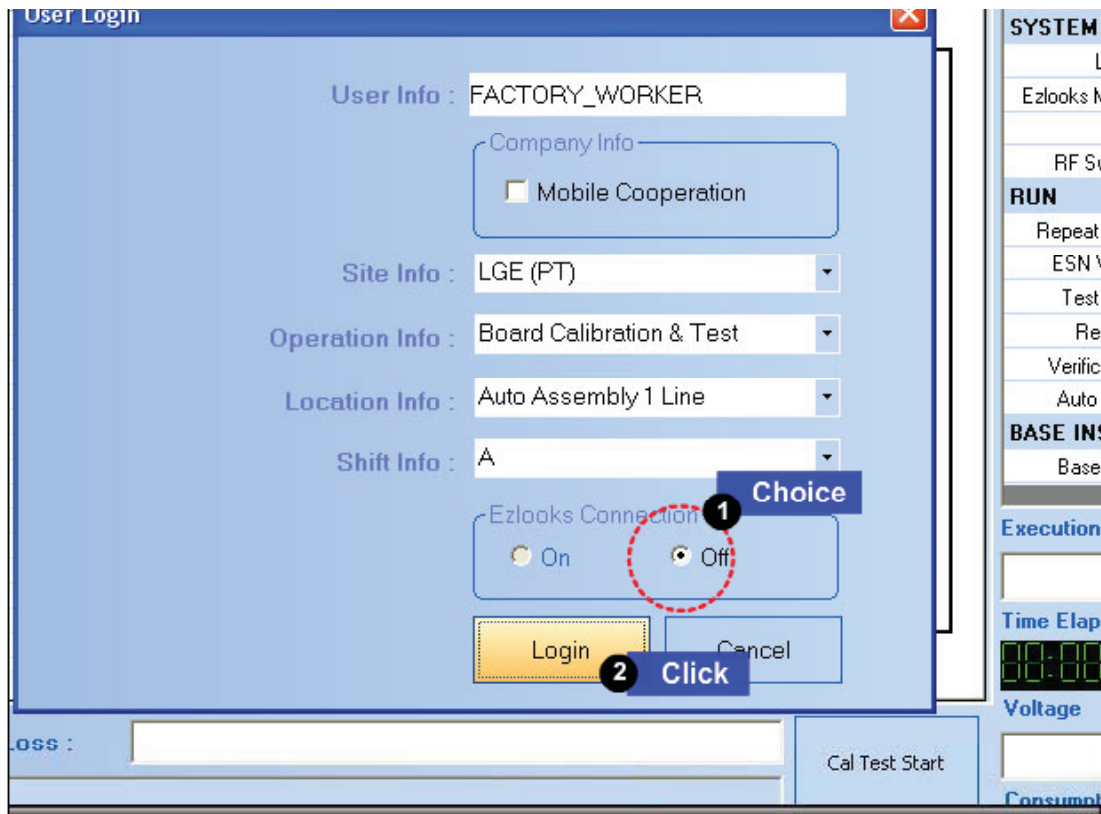




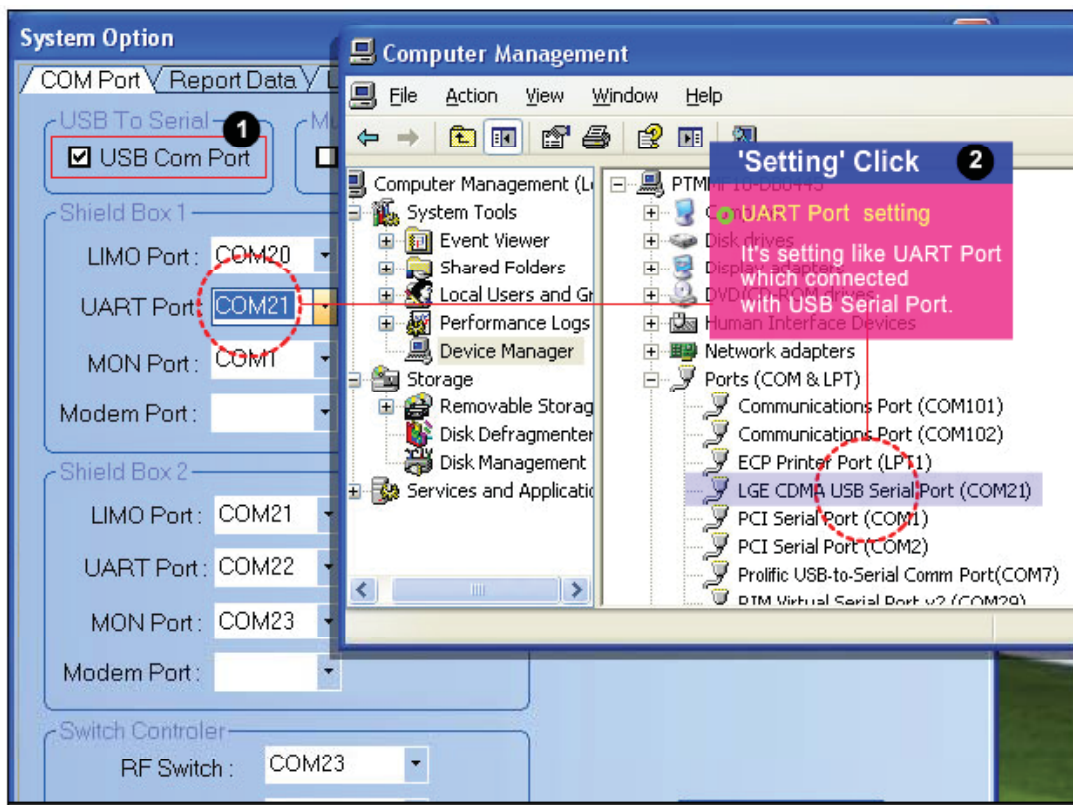
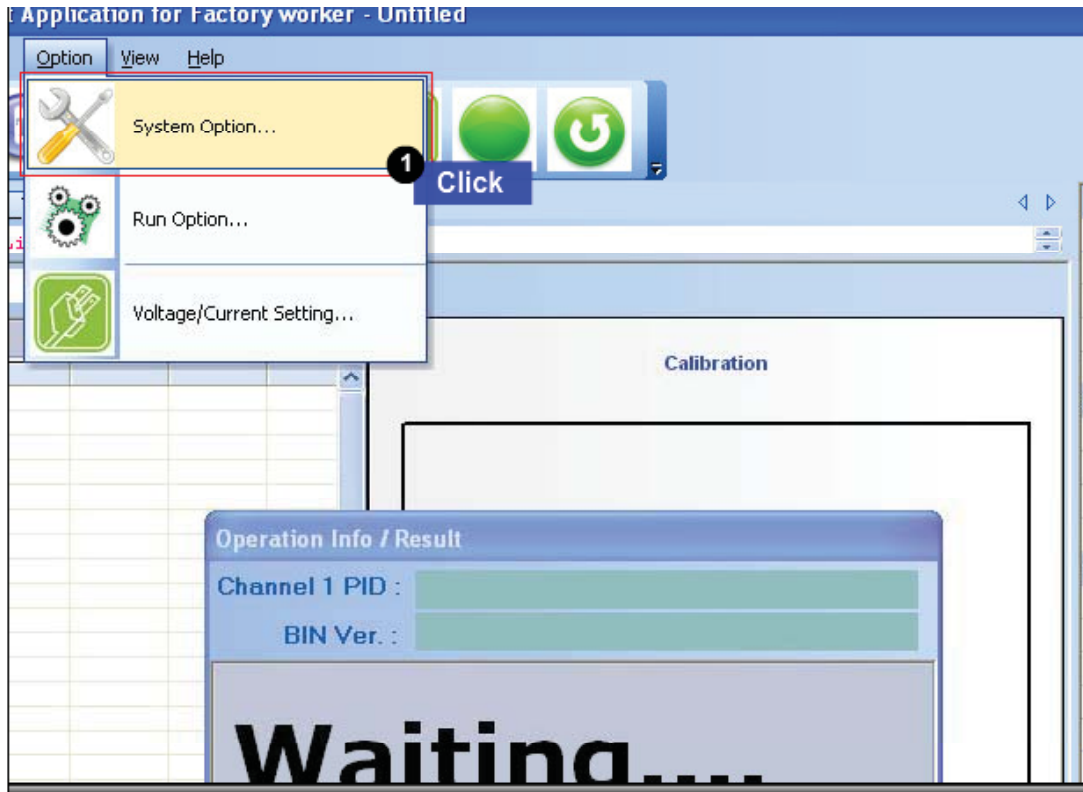
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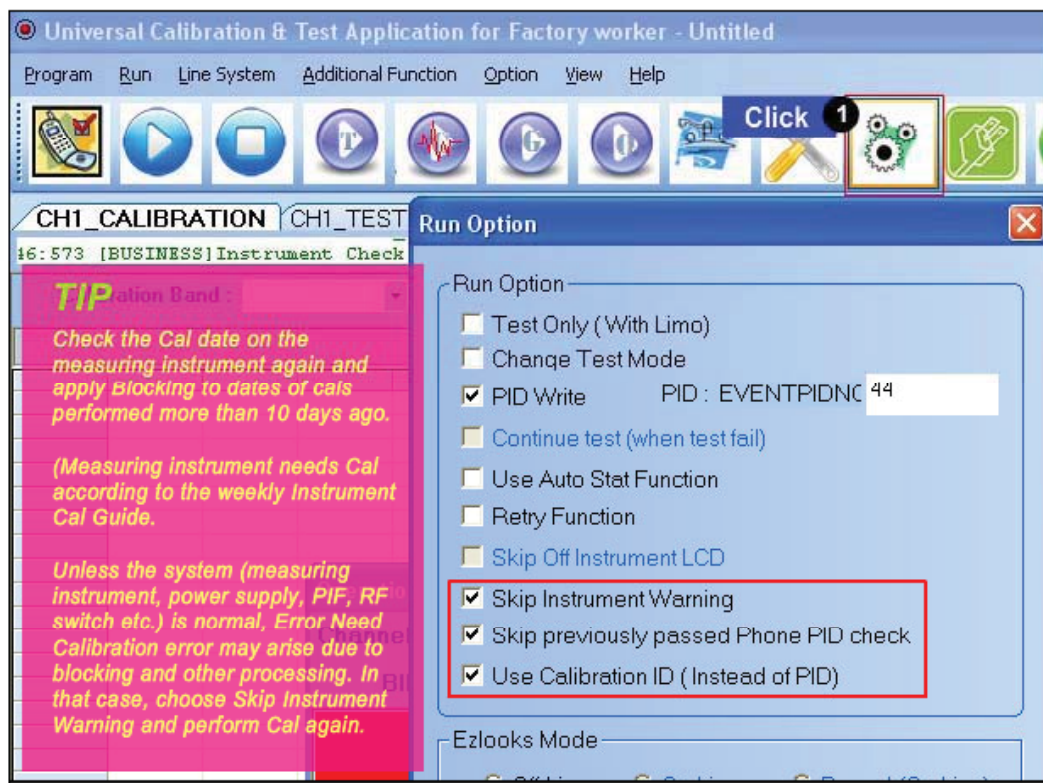
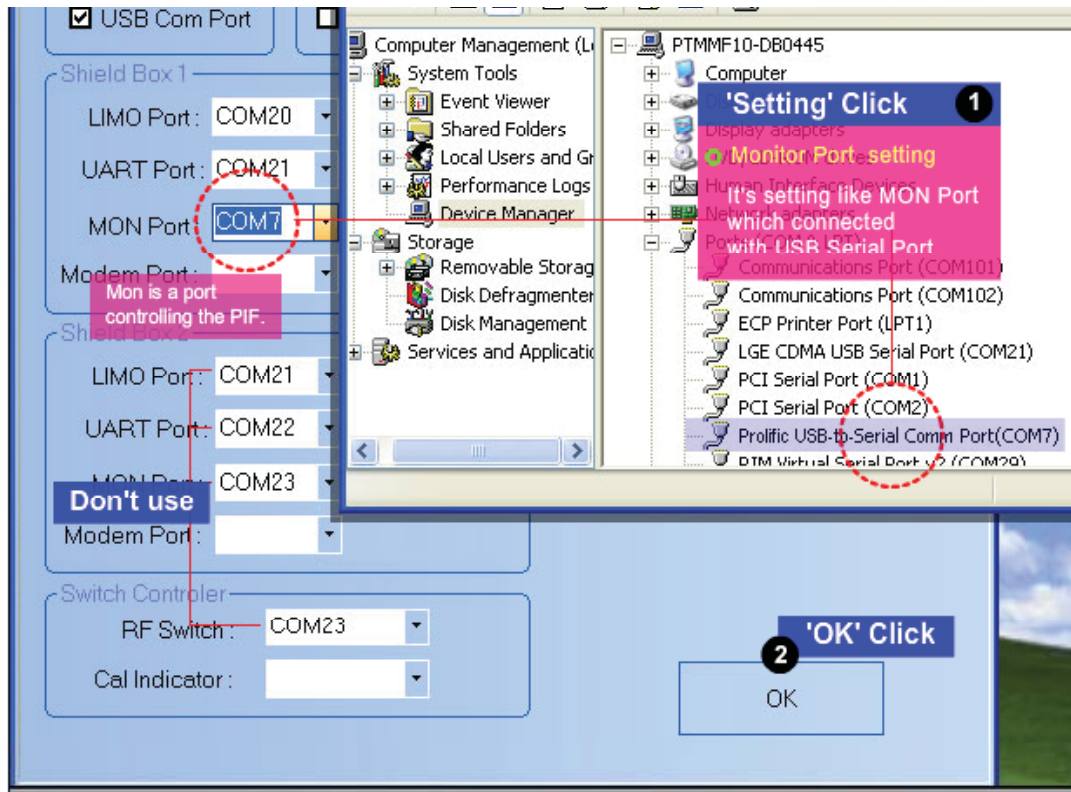


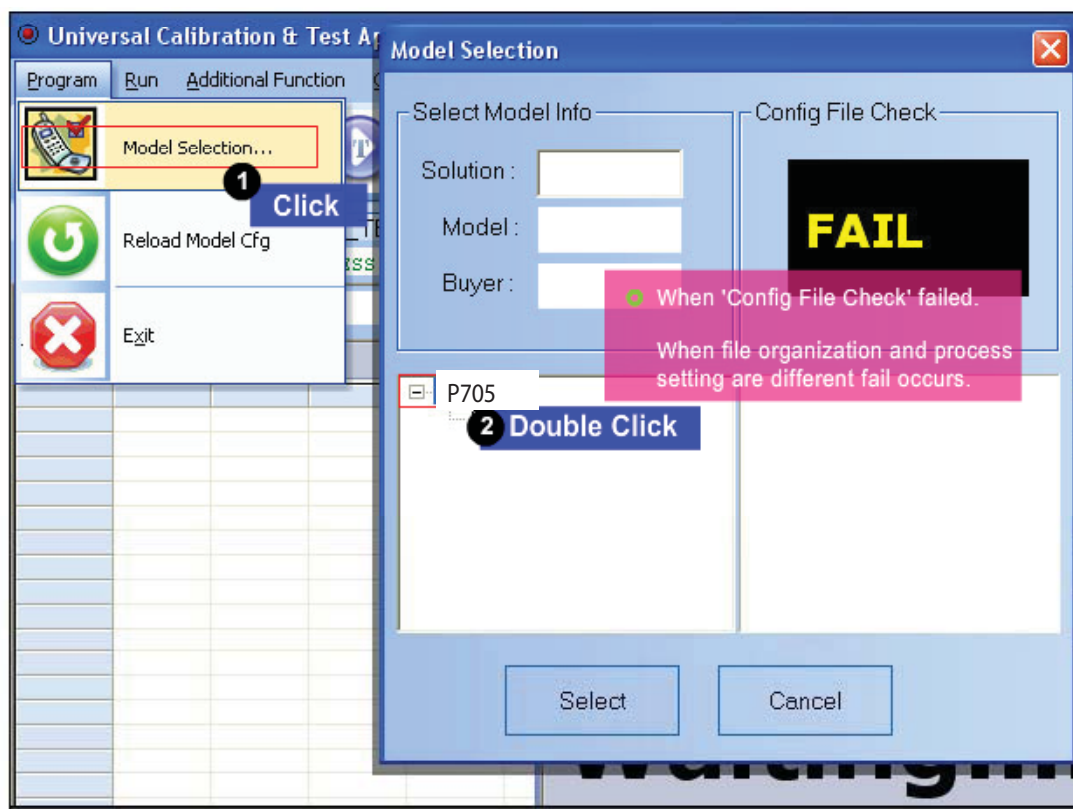
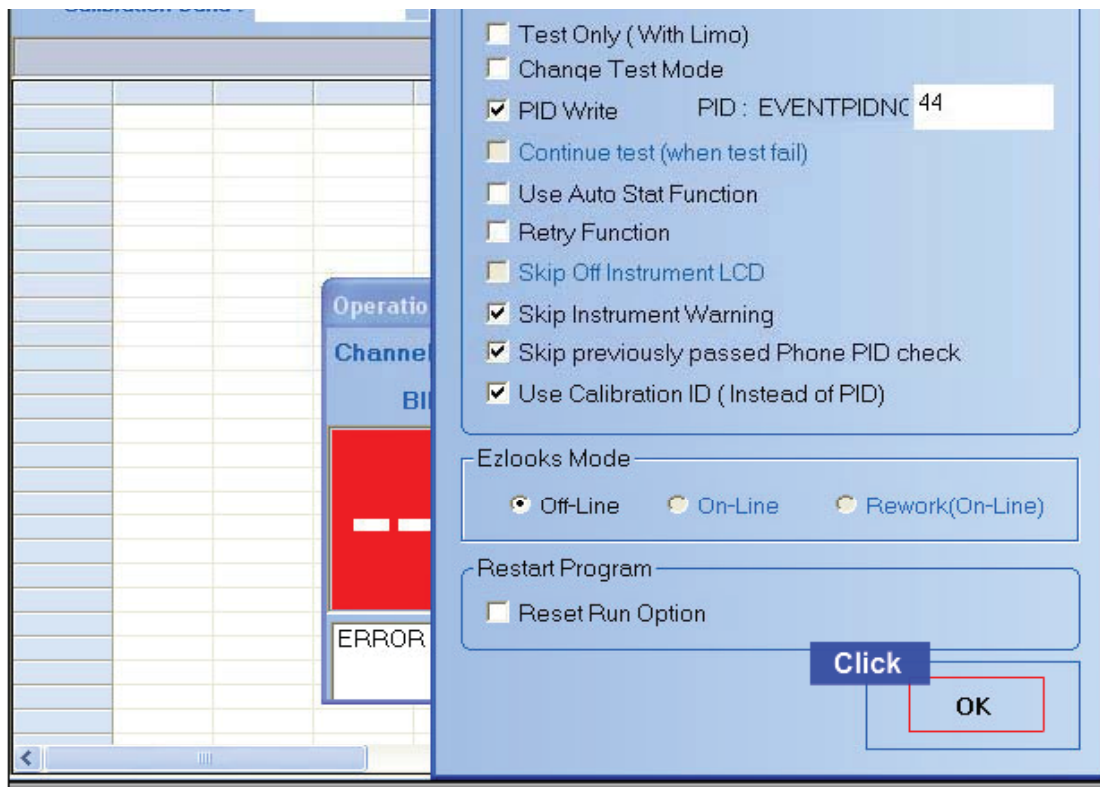
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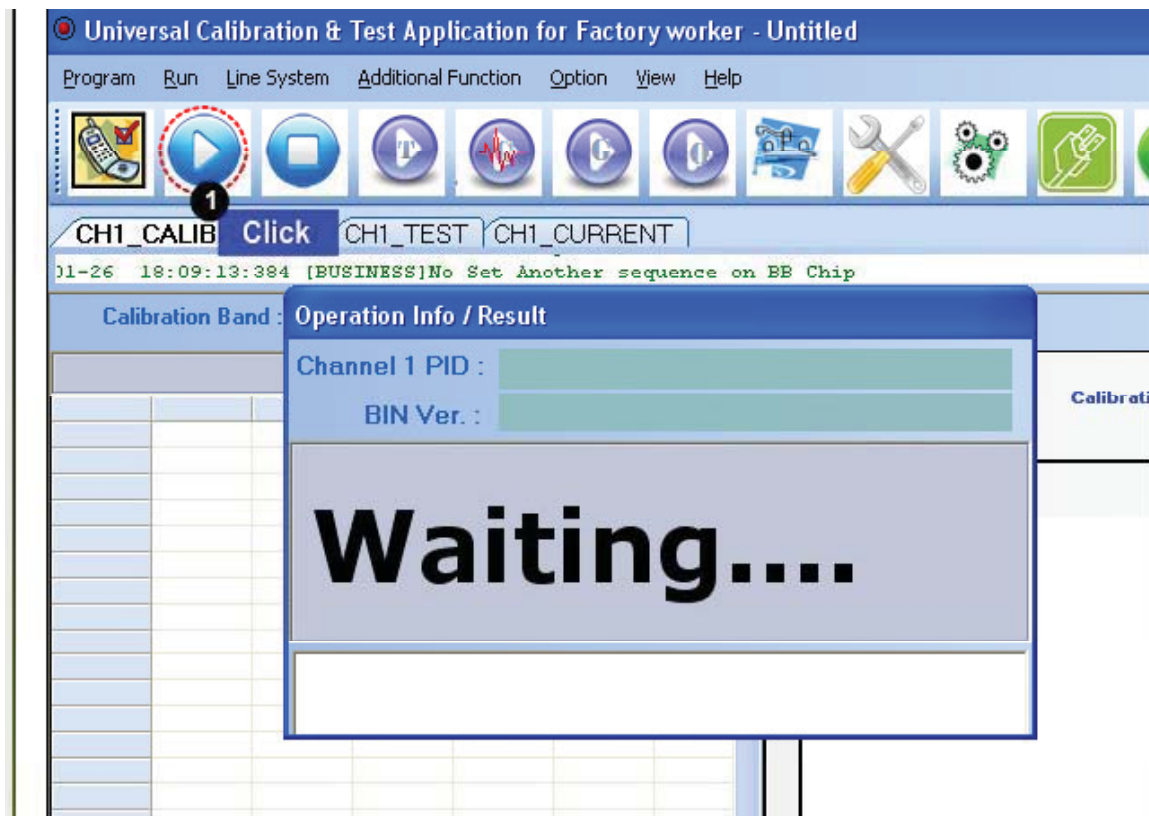
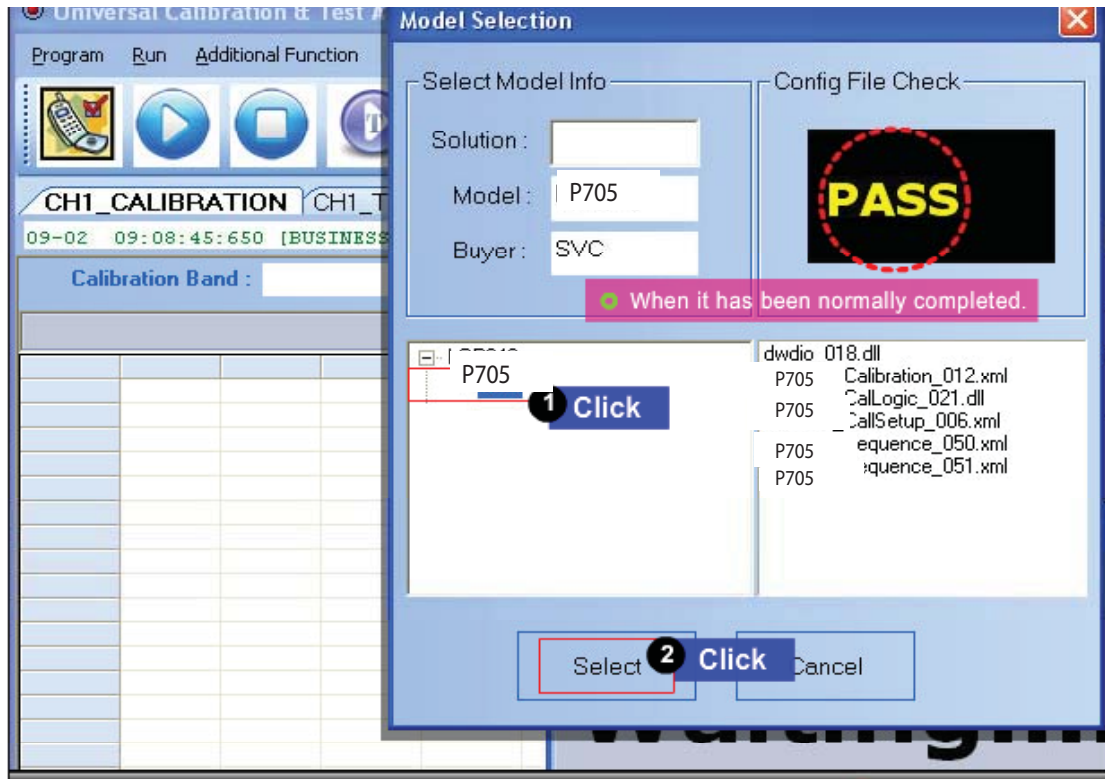
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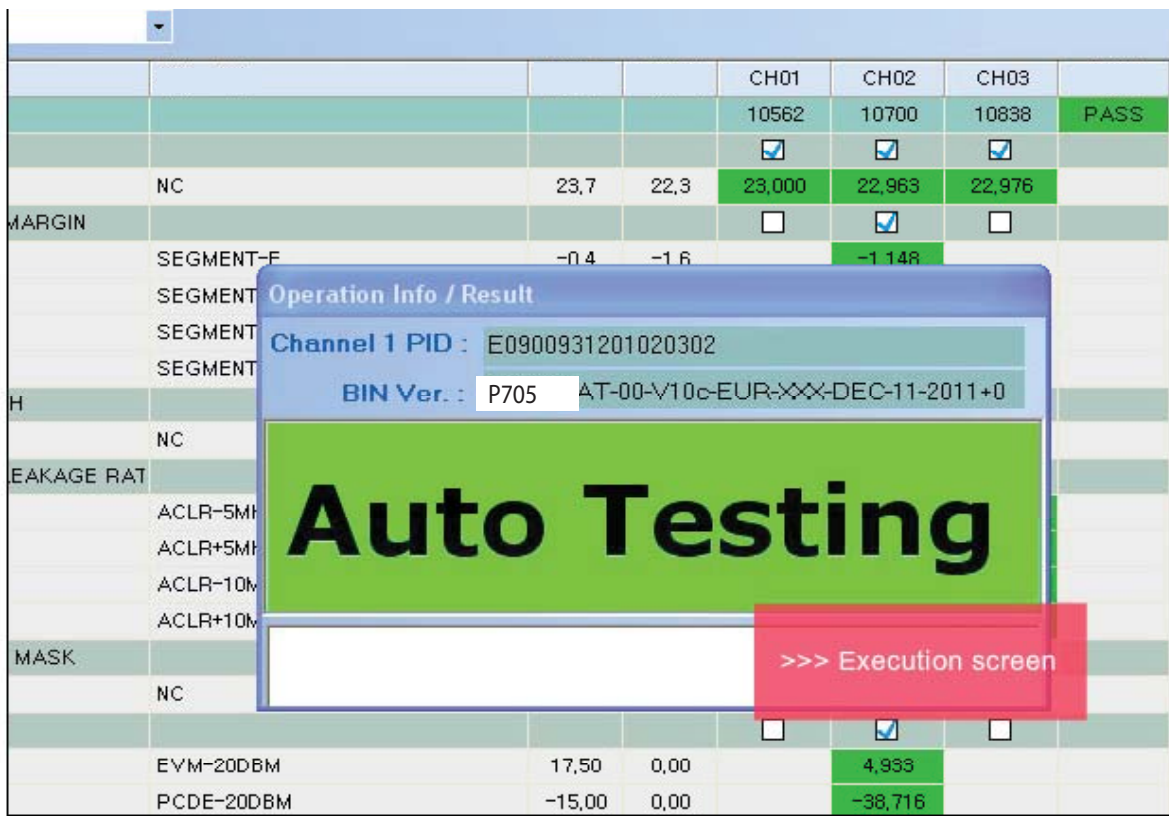
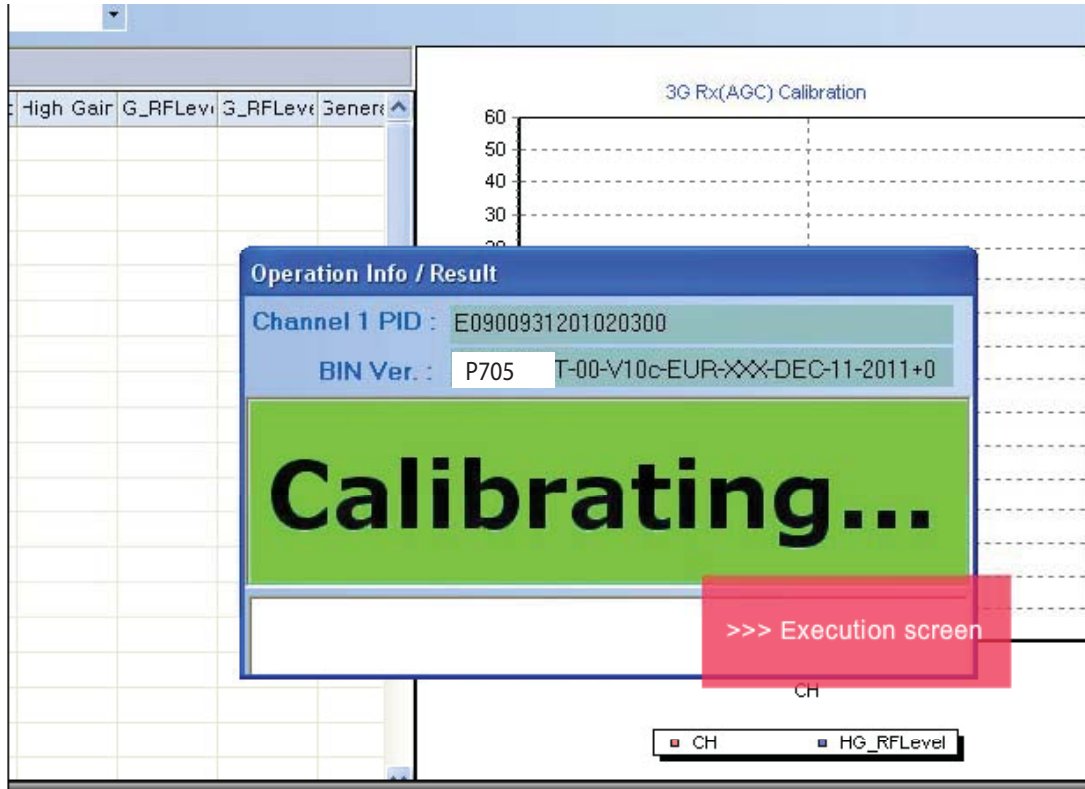






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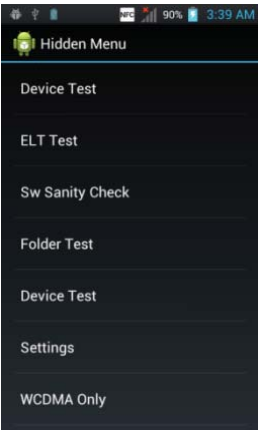




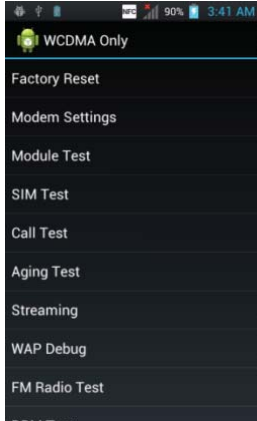
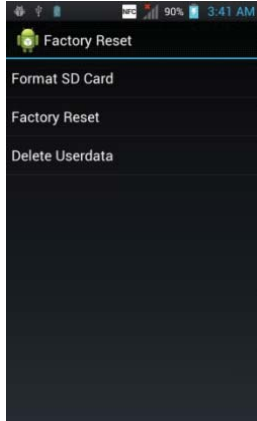
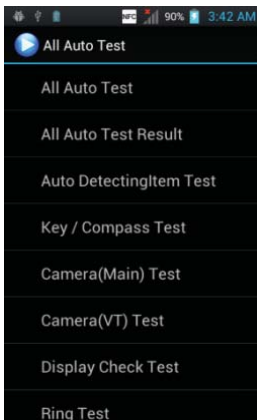
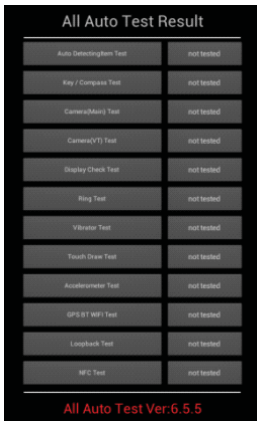
|                                                           |                                                                                                                                                                                               |        |      |                                     |                                     |                                     |                          |
|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------|
|                                                           |                                                                                                                                                                                               |        |      | 10562                               | 10700                               | 10838                               | PASS                     |
|                                                           |                                                                                                                                                                                               |        |      | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                          |
|                                                           | NC                                                                                                                                                                                            | 23,7   | 22,3 | 23,065                              | 22,983                              | 23,013                              |                          |
| MARGIN                                                    |                                                                                                                                                                                               |        |      | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                          |
| SEGMENT                                                   | <div> <div>Operation Info / Result</div> <div>Channel 1 PID : F09000931201020299</div> <div>BIN Ver. : P705 AT-00-V10c-EUR-XXX-DEC-11-2011+0</div> <div>--- PASS ---</div> <div></div> </div> |        |      |                                     |                                     |                                     |                          |
| SEGMENT                                                   |                                                                                                                                                                                               |        |      |                                     |                                     |                                     |                          |
| SEGMENT                                                   |                                                                                                                                                                                               |        |      |                                     |                                     |                                     |                          |
| SEGMENT                                                   |                                                                                                                                                                                               |        |      |                                     |                                     |                                     |                          |
| OTH                                                       |                                                                                                                                                                                               |        |      |                                     |                                     |                                     |                          |
| NC                                                        |                                                                                                                                                                                               |        |      |                                     |                                     |                                     |                          |
| LEAKAGE RAT                                               |                                                                                                                                                                                               |        |      |                                     |                                     |                                     |                          |
| ACLR-5M                                                   |                                                                                                                                                                                               |        |      |                                     |                                     |                                     |                          |
| ACLR+5M                                                   |                                                                                                                                                                                               |        |      |                                     |                                     |                                     |                          |
| ACLR-10M                                                  |                                                                                                                                                                                               |        |      |                                     |                                     |                                     |                          |
| ACLR+10M                                                  |                                                                                                                                                                                               |        |      |                                     |                                     |                                     |                          |
| ON MASK                                                   |                                                                                                                                                                                               |        |      |                                     |                                     |                                     |                          |
| NC                                                        |                                                                                                                                                                                               | 0,5    | -0,5 |                                     | 11,1001                             |                                     |                          |
| Y                                                         |                                                                                                                                                                                               |        |      |                                     |                                     |                                     | <input type="checkbox"/> |
| EVM-20DBM                                                 |                                                                                                                                                                                               | 17,50  | 0,00 |                                     | 4,720                               |                                     |                          |
| PCDE-20DBM                                                |                                                                                                                                                                                               | -15,00 | 0,00 |                                     | -38,441                             |                                     |                          |
| <div>System Loss : MySystem(MS ).gms · RF900 6C.grf</div> |                                                                                                                                                                                               |        |      |                                     |                                     |                                     |                          |

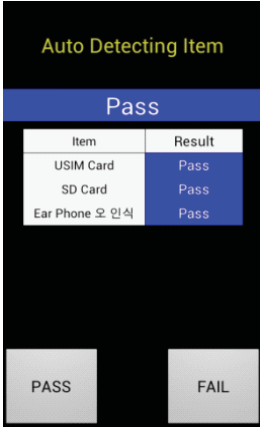
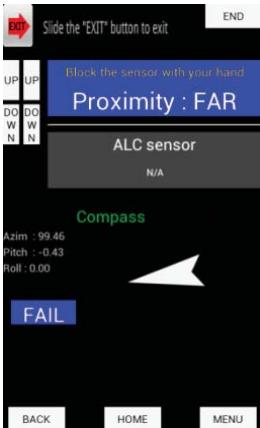
'PASS' The End

# 11. HIDDEN MENU

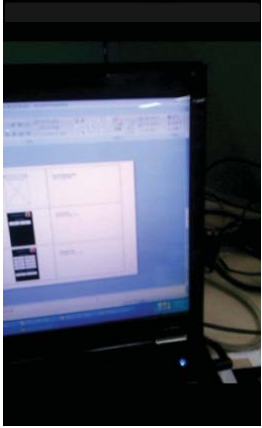
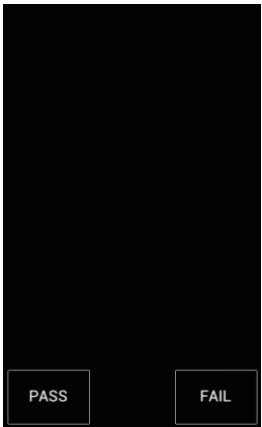
|                                                                                     |                                                                                                                                                                                                 |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | <p><b>Hidden Menu Start</b></p> <p>Start shortcut keys: 3845#*705#</p>                                                                                                                          |
|   | <p><b>Hidden Menu</b></p> <p>Start the desired menu: Menu, click</p>                                                                                                                            |
|  | <p><b>Version Info</b></p> <p>Classified Information representation</p> <ul style="list-style-type: none"> <li>-&gt; Hidden Menu</li> <li>-&gt; Settings</li> <li>-&gt; Version Info</li> </ul> |

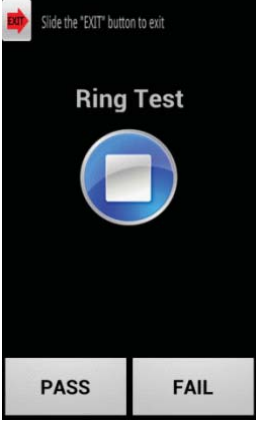
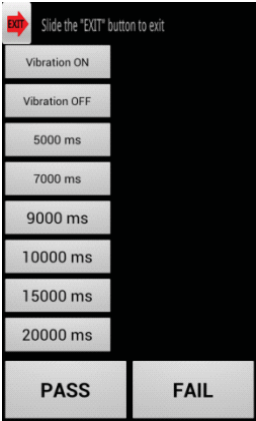
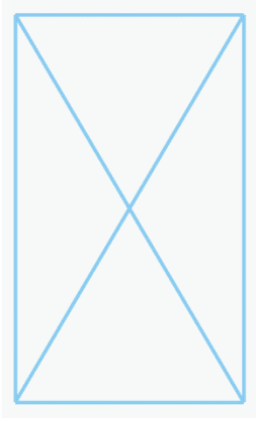
## 11. HIDDEN MENU

|                                                                                     |                                                                                                      |                                                                                                                                                                                                                                                 |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |                     | <h3>Factory Reset</h3> <p>Format SD Card : SD Card Data reset</p> <p>Factory Reset : Reset as default</p> <p>Factory Settings</p> <p>Delete Userdata : Disabled</p> <p>-&gt; Hidden menu</p> <p>-&gt; WCDMA-Only</p> <p>-&gt; Factory Reset</p> |
|   | <h3>AAT Device Test</h3> <p>Allauto Test :</p> <p>-&gt; You can test all functions automatically</p> |                                                                                                                                                                                                                                                 |
|  | <h3>Auto All Test Result</h3> <p>-&gt; You can check Test Results</p>                                |                                                                                                                                                                                                                                                 |

|                                                                                     |                                                                                                                                                                                                                                                                                             |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | <p><b>Auto Detecting Item</b></p> <p>Check below Items</p> <p>USIM Card : connecting is PASS</p> <p>-&gt; SD Card : connecting is PASS</p> <p>-&gt; Ear Phone : <b>No</b> connecting is PASS</p> <p>-&gt; Charging Mode : connecting is PASS</p>                                            |
|   | <p><b>Key Press Test</b></p> <p>Check below Items</p> <p>Up/Down key : Hard Key</p> <p>Power key : Hard Key</p> <p>Menu key : Touch Key</p> <p>Home key : Hard Key</p> <p>Back key : Touch Key</p> <p>Compass Sensor : Check North</p> <p>Proximity Sensor : Block the Proximity sensor</p> |
|  | <p><b>Camera Test – Snapshot</b></p> <p>Touch screen to capture</p>                                                                                                                                                                                                                         |

## 11. HIDDEN MENU

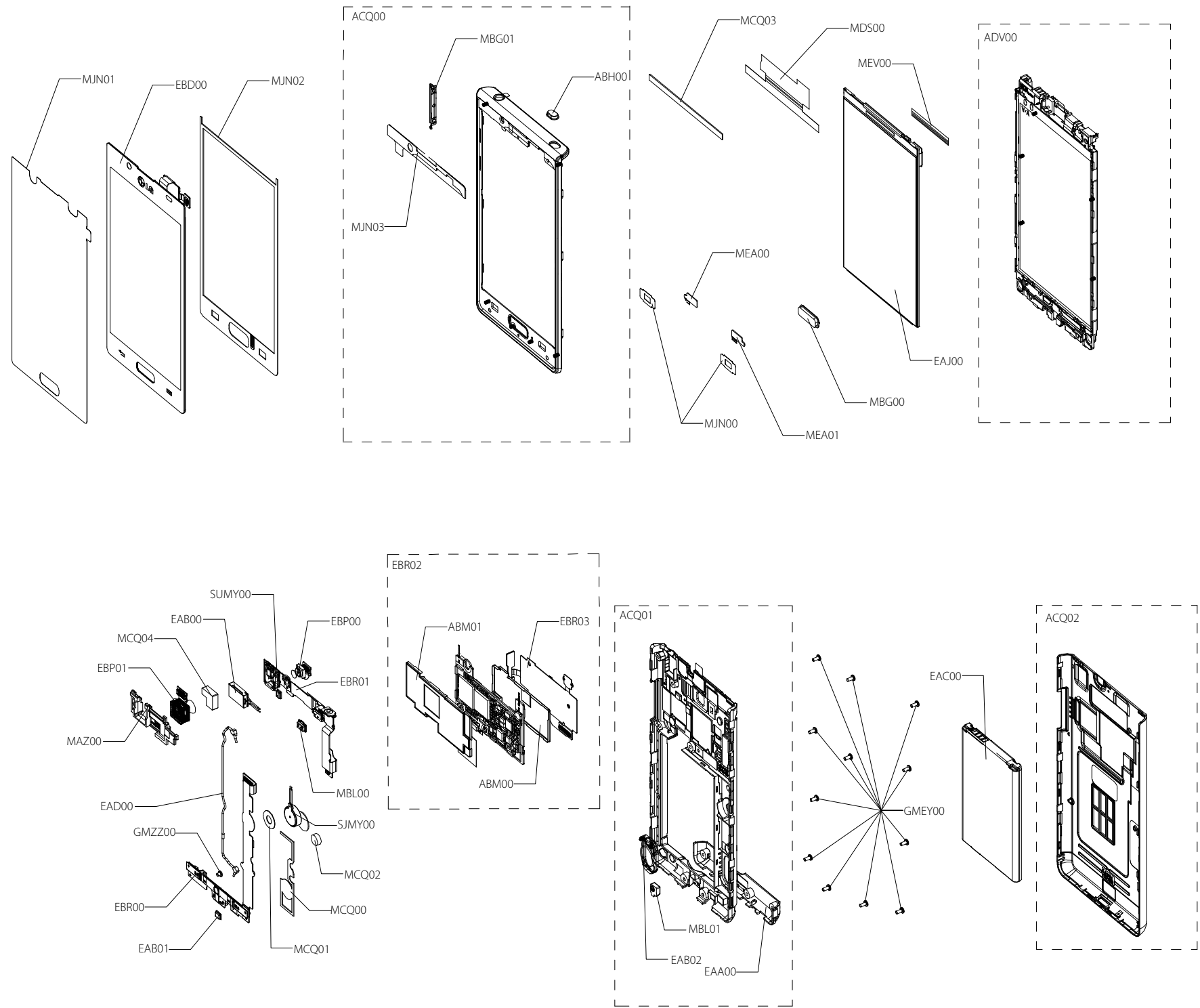
|                                                                                     |                                                                            |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
|    | <p><b>Camera Test - Camcoding</b><br/>Camera is recoding for 5 seconds</p> |
|   | <p><b>VT Camera Test</b><br/>Show the VT Camera image</p>                  |
|  | <p><b>2D LCD Display Test</b><br/>Check Black &amp; White Color</p>        |

|                                                                                     |                                                           |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------|
|    | <p><b>Sound Test</b></p> <p>Touch the "Play" icon</p>     |
|   | <p><b>Vibrator Test</b></p> <p>Touch the "Start" icon</p> |
|  | <p><b>Touch Drawing Test</b></p> <p>Draw a guide line</p> |

|  |                                                                                                                                                                                                         |
|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p><b>Motion Sensor Test</b></p> <p>Check 3 positions</p> <ul style="list-style-type: none"> <li>-&gt; Position horizontally</li> <li>-&gt; Position Vertically</li> <li>-&gt; Position side</li> </ul> |
|  | <p><b>GPS BT Wifi Test</b></p> <p>GPS(RF) test : CNO is some value : OK</p> <p>Bluetooth Scanning is PASS : OK</p> <p>WiFi Scanning is PASS : OK</p>                                                    |
|  | <p><b>Sound Loopback Test</b></p> <p>"Look Back On" is test mode on</p> <p>"Look Back OFF" is test mode off</p>                                                                                         |

12. EXPLODED VIEW & REPLACEMENT PART LIST

12.1 EXPLODED VIEW(SBOM)



| Location | Description                      |
|----------|----------------------------------|
| EBR02    | PCB Assembly,Main                |
| ABM00    | Can Assembly,Shield              |
| ABM01    | Can Assembly,Shield              |
| EBR03    | PCB Assembly,Flexible            |
| EAB02    | Speaker,Dual Mode                |
| EAA00    | PIFA Antenna,Multiple            |
| ACQ01    | Cover Assembly,Rear(SVC)         |
| MBL01    | Cap,Receptacle                   |
| GMEY00   | Screw,Machine                    |
| EBR00    | PCB Assembly,Flexible            |
| SUMY00   | Microphone,Condenser             |
| EBR01    | PCB Assembly,Flexible            |
| EAB01    | Microphone,Condenser             |
| SJMY00   | Motor,DC                         |
| MBG00    | Button                           |
| ACQ00    | Cover Assembly,Front             |
| MJN03    | Tape,Window                      |
| ABH00    | Button Assembly (Power)          |
| MBG01    | Button,Side (Volume)             |
| ADV00    | Frame Assembly                   |
| GMZZ00   | Screw,Machine                    |
| MJN01    | Tape                             |
| MJN00    | Tape                             |
| MAZ00    | Bracket                          |
| MBL00    | Cap                              |
| MCQ00    | Damper,Speaker                   |
| MCQ01    | Damper,Motor                     |
| MCQ02    | Damper                           |
| MCQ03    | Damper,LCD                       |
| MCQ04    | Damper                           |
| MDS00    | Gasket                           |
| MEA01    | Guide                            |
| MEA00    | Guide                            |
| MEV00    | Insulator                        |
| MJN02    | Tape,Window                      |
| EBP01    | Camera Module                    |
| EBP00    | Camera Module                    |
| EBD00    | Touch Window Assembly            |
| EAJ00    | LCD,Module-TFT                   |
| EAB00    | Receiver                         |
| EAD00    | Cable,Assembly                   |
| EAC00    | Rechargeable Battery,Lithium Ion |
| ACQ02    | Cover Assembly,Battery           |

## 12. EXPLODED VIEW & REPLACEMENT PART LIST

### 12.2 ReplacementParts <Mechanic component>

**Note:** This Chapter is used for reference, Part order is ordered by SBOM standard on GCSC

| Level | LocationNo.                                                                                     | Description            | PartNumber  | Spec                                                                    | Remark |
|-------|-------------------------------------------------------------------------------------------------|------------------------|-------------|-------------------------------------------------------------------------|--------|
| 1     | AGQ000000                                                                                       | Phone Assembly         | AGQ86787201 | LGP705.ACISWH WH:WHITE WHITE -                                          |        |
| 2     | MEZ002100                                                                                       | Label,Approval         | MLAA0062319 | COMPLEX GU280 OREBK ZZ:Without Color<br>COMPLEX, (empty), , , ,         |        |
| 2     | ACQ100400                                                                                       | Cover<br>Assembly,EMS  | ACQ86034301 | LGP705.ANGRBK BK:BLACK BLACK -                                          |        |
| 6     | SC301<br>SC306<br>SC309<br>SC311<br>SC313<br>SC315<br>SC316<br>SC318<br>SC319<br>SC321<br>SC322 | Clip                   | MCGY0003801 | COMPLEX LG-KH3900 KTF ZZ:Without Color -                                |        |
| 6     | ANT800<br>ANT801                                                                                | Contact                | MCIZ0008501 | COMPLEX LG-T310 VIVBK ZZ:Without Color<br>PRESS, BeCu, , 3.5, 2.0, 1.5, |        |
| 6     | SC301<br>SC306<br>SC309<br>SC311<br>SC313<br>SC315<br>SC316<br>SC318<br>SC319<br>SC321<br>SC322 | Clip                   | MCGY0003801 | COMPLEX LG-KH3900 KTF ZZ:Without Color -                                |        |
| 5     | MEZ000000                                                                                       | Label                  | MLAZ0038301 | COMPLEX LG-VX6000 ZZ:Without Color PID Label<br>4 Array PRINTING,       |        |
| 5     | ABM00                                                                                           | Can<br>Assembly,Shield | ABM73816201 | LGP700.AFRAWH ZZ:Without Color -                                        |        |
| 6     | MEV000000                                                                                       | Insulator              | MEV64172001 | COMPLEX LGP700.AFRAWH ZZ:Without Color -                                |        |
| 6     | MBK070300                                                                                       | Can,Shield             | MBK63254501 | PRESS STS 0.15 LGP700.AFRAWH ZZ:Without<br>Color -                      |        |

## 12. EXPLODED VIEW & REPLACEMENT PART LIST

| Level | LocationNo. | Description              | PartNumber  | Spec                                            | Remark |
|-------|-------------|--------------------------|-------------|-------------------------------------------------|--------|
| 6     | MCQ000000   | Damper                   | MCQ67069001 | COMPLEX LGP700.AFRAWH ZZ:Without Color -        |        |
| 5     | ABM01       | Can Assembly,Shield      | ABM73816101 | LGP700.AFRAWH ZZ:Without Color -                |        |
| 6     | MJN000000   | Tape                     | MJN68138801 | COMPLEX LGP700.AFRAWH ZZ:Without Color -        |        |
| 6     | MCQ000002   | Damper                   | MCQ67068901 | COMPLEX LGP700.AFRAWH ZZ:Without Color -        |        |
| 6     | MCQ000001   | Damper                   | MCQ67068801 | COMPLEX LGP700.AFRAWH ZZ:Without Color -        |        |
| 6     | MCQ000000   | Damper                   | MCQ67068701 | COMPLEX LGP700.AFRAWH ZZ:Without Color -        |        |
| 6     | MHK000000   | Sheet                    | MHK63801001 | COMPLEX LGP700.AFRAWH ZZ:Without Color -        |        |
| 6     | MEV000000   | Insulator                | MEV64171901 | COMPLEX LGP700.AFRAWH ZZ:Without Color -        |        |
| 6     | MEV000001   | Insulator                | MEV64169101 | COMPLEX LGP700.AFRAWH ZZ:Without Color -        |        |
| 6     | MBK070300   | Can,Shield               | MBK63234101 | PRESS STS 0.15 LGP700.AFRAWH ZZ:Without Color - |        |
| 6     | MCQ000003   | Damper                   | MCQ67006801 | COMPLEX LGP700.AFRAWH ZZ:Without Color -        |        |
| 3     | ACQ063300   | Cover Assembly,Rear      | ACQ86108601 | LGP705.ACISWH BK:BLACK BLACK -                  |        |
| 4     | ACQ01       | Cover Assembly Rear(SVC) | ACQ86075501 | LGP705.ACISWH BK:BLACK BLACK -                  |        |
| 5     | MHK000002   | Sheet                    | MHK63845101 | COMPLEX LGP705.ANGBK ZZ:Without Color -         |        |
| 5     | MJN020800   | Tape,Decor               | MJN68076901 | COMPLEX LGP700.AFRAWH ZZ:Without Color -        |        |
| 5     | MJN089301   | Tape,Window              | MJN68077001 | COMPLEX LGP700.AFRAWH ZZ:Without Color -        |        |
| 5     | MJN000000   | Tape                     | MJN68099401 | COMPLEX LGP700.AFRAWH ZZ:Without Color -        |        |

## 12. EXPLODED VIEW & REPLACEMENT PART LIST

| Level | LocationNo. | Description         | PartNumber  | Spec                                                       | Remark |
|-------|-------------|---------------------|-------------|------------------------------------------------------------|--------|
| 5     | MJN089300   | Tape,Window         | MJN68114401 | COMPLEX LGP700.AFRAWH ZZ:Without Color -                   |        |
| 5     | MKC009400   | Window,Camera       | MKC64340201 | CUTTING ACRYL LGP700.AFRAWH ZZ:Without Color -             |        |
| 5     | MEZ000900   | Label,After Service | MLAB0001102 | COMPLEX C2000 CGRSV WA:White C2000 USASV DIA 4.0 PRINTING, |        |
| 5     | MHK000001   | Sheet               | MHK63751401 | COMPLEX LGP700.AFRAWH BK:Black -                           |        |
| 5     | MHK000000   | Sheet               | MHK63792701 | COMPLEX LGP700.AFRAWH ZZ:Without Color -                   |        |
| 5     | MBL01       | Cap,Receptacle      | MBL65201301 | MOLD PC LGP700.AFRAWH BK:Black -                           |        |
| 5     | MCK063300   | Cover,Rear          | MCK67152401 | MOLD PC LGP700.AFRAWH BK:Black -                           |        |
| 5     | MCQ049800   | Damper,Motor        | MCQ66914901 | COMPLEX LGP700.AFRAWH BK:Black -                           |        |
| 5     | MCQ015700   | Damper Connector    | MCQ66915001 | COMPLEX LGP700.AFRAWH BK:Black -                           |        |
| 5     | MCQ000001   | Damper              | MCQ66919101 | COMPLEX LGP700.AFRAWH BK:Black -                           |        |
| 5     | MCQ074200   | Damper,Speaker      | MCQ66951401 | COMPLEX LGP700.AFRAWH ZZ:Without Color -                   |        |
| 5     | MCQ015701   | Damper Connector    | MCQ66959801 | COMPLEX LGP700.AFRAWH BK:Black -                           |        |
| 5     | MCQ000002   | Damper              | MCQ66959901 | COMPLEX LGP700.AFRAWH BK:Black -                           |        |
| 5     | MCQ009400   | Damper,Camera       | MCQ66970101 | COMPLEX LGP700.AFRAWH BK:Black -                           |        |
| 5     | MCQ000000   | Damper              | MCQ66995001 | COMPLEX LGP700.AFRAWH ZZ:Without Color -                   |        |
| 5     | MCR000000   | Decor               | MCR64753401 | PRESS STS ZZ LGP700.AFRAWH ZZ:Without Color -              |        |
| 5     | MCR000001   | Decor               | MCR64753501 | COMPLEX LGP700.AFRAWH WH:WHITE WHITE -                     |        |
| 5     | MDS000000   | Gasket              | MDS63981701 | COMPLEX LGP700.AFRAWH ZZ:Without Color -                   |        |
| 5     | MFB029600   | Lens,Flash          | MFB62793301 | MOLD PC LGP700.AFRAWH ZZ:Without Color -                   |        |

## 12. EXPLODED VIEW & REPLACEMENT PART LIST

| Level | LocationNo.      | Description             | PartNumber  | Spec                                                        | Remark |
|-------|------------------|-------------------------|-------------|-------------------------------------------------------------|--------|
| 3     | GMEY00           | Screw,Machine           | GMEY0011201 | GMEY0011201 BH + 1.4mM 3mM MSWR FZB N N LG ELECTRONICS INC. |        |
| 3     | ACQ003400        | Cover Assembly,Bar      | ACQ85950405 | LGP700.AFAWH WH:WHITE WHITE -                               |        |
| 7     | ANT802<br>ANT803 | Contact                 | MCE62253601 | COMPLEX LGLS685.ASPRZY ZZ:Without Color -                   |        |
| 4     | MBG00            | Button                  | MBG64528101 | COMPLEX LGP700.AFAWH WH:WHITE WHITE -                       |        |
| 4     | ACQ00            | Cover Assembly,Front    | ACQ85922101 | LGP700.AFAWH WH:WHITE WHITE -                               |        |
| 5     | MJN000000        | Tape                    | MJN68098601 | COMPLEX LGP700.AFAWH ZZ:Without Color -                     |        |
| 5     | MEV000001        | Insulator               | MEV64161501 | COMPLEX LGP700.AFAWH ZZ:Without Color -                     |        |
| 5     | MJN020800        | Tape,Decor              | MJN68076701 | COMPLEX LGP700.AFAWH ZZ:Without Color -                     |        |
| 5     | MJN03            | Tape,Window             | MJN68076601 | COMPLEX LGP700.AFAWH ZZ:Without Color -                     |        |
| 5     | MEV000000        | Insulator               | MEV64080001 | COMPLEX LGP700.AFAWH ZZ:Without Color -                     |        |
| 5     | MDJ000000        | Filter                  | MDJ63425801 | COMPLEX LGP700.AFAWH ZZ:Without Color -                     |        |
| 5     | MCR000000        | Decor                   | MCR64792701 | PRESS STS 0.2T LGP700.AFAWH WH:WHITE WHITE -                |        |
| 5     | MCR000001        | Decor                   | MCR64792601 | COMPLEX LGP700.AFAWH BK:Black -                             |        |
| 5     | MCQ000000        | Damper                  | MCQ66995501 | COMPLEX LGP700.AFAWH BK:Black -                             |        |
| 5     | MEV000002        | Insulator               | MEV64169401 | COMPLEX LGP700.AFAWH ZZ:Without Color -                     |        |
| 5     | MCQ000001        | Damper                  | MCQ67104501 | COMPLEX LGP700.AFAWH ZZ:Without Color -                     |        |
| 5     | ABH00            | Button Assembly (Power) | ABH74619701 | LGP700.AFAWH ZZ:Without Color -                             |        |
| 6     | MCQ000000        | Damper                  | MCQ67105301 | COMPLEX LGP700.AFAWH ZZ:Without Color -                     |        |

## 12. EXPLODED VIEW & REPLACEMENT PART LIST

| Level | LocationNo. | Description          | PartNumber  | Spec                                                         | Remark |
|-------|-------------|----------------------|-------------|--------------------------------------------------------------|--------|
| 6     | MBG071300   | Button,Side          | MBG64528301 | PRESS STS zz LGP700.AFRAWH ZZ:Without Color -                |        |
| 5     | MBG01       | Button,Side (Volume) | MBG64584901 | MOLD PC LGP700.AFRAWH WH:WHITE WHITE -                       |        |
| 5     | MCK032700   | Cover,Front          | MCK67131801 | MOLD PC LGP700.AFRAWH WH:WHITE WHITE -                       |        |
| 6     | MET099500   | INSERT,NUT           | MICE0016903 | MECH_COMMON ZY,ZZ,PRESS, STS, , , , ,                        |        |
| 6     | MET099501   | INSERT,NUT           | MICE0016905 | MECH_COMMON ZY,ZZ,PRESS, STS, , , , ,                        |        |
| 5     | MCQ074200   | Damper,Speaker       | MCQ66970001 | COMPLEX LGP700.AFRAWH ZZ:Without Color -                     |        |
| 4     | ADV00       | Frame Assembly       | ADV74288301 | LGP700.AFRAWH ZZ:Without Color -                             |        |
| 5     | MCQ000001   | Damper               | MCQ66918401 | COMPLEX LGP700.AFRAWH BK:Black -                             |        |
| 5     | MCQ000000   | Damper               | MCQ66995601 | COMPLEX LGP700.AFRAWH BK:Black -                             |        |
| 5     | MDQ000000   | Frame                | MDQ63198001 | CASTING PMP TPX MX-221M LGP700.AFRAWH ZZ:Without Color -     |        |
| 6     | MET099500   | INSERT,NUT           | MICE0016903 | MECH_COMMON ZY,ZZ,PRESS, STS, , , , ,                        |        |
| 6     | MDQ000000   | Frame                | MDQ63238601 | MOLD PA LGP700.AFRAWH ZZ:Without Color -                     |        |
| 5     | MJN000000   | Tape                 | MJN68077101 | COMPLEX LGP700.AFRAWH ZZ:Without Color -                     |        |
| 5     | MJN000003   | Tape                 | MJN68169601 | COMPLEX LGP700.AFRAWH ZZ:Without Color -                     |        |
| 5     | MJN000001   | Tape                 | MJN68133901 | COMPLEX LGP700.AFRAWH ZZ:Without Color -                     |        |
| 5     | MDS000000   | Gasket               | MDS63979701 | COMPLEX LGP700.AFRAWH ZZ:Without Color -                     |        |
| 5     | MDS000001   | Gasket               | MDS64030201 | COMPLEX LGP700.AFRAWH ZZ:Without Color -                     |        |
| 5     | MJN000002   | Tape                 | MJN68098301 | COMPLEX LGP700.AFRAWH ZZ:Without Color -                     |        |
| 4     | GMZZ00      | Screw,Machine        | GMZZ0019003 | GMZZ0019003 FH + 1.4mM 1.5mM MSWR FZB N - SERVEONE CO., LTD. |        |

## 12. EXPLODED VIEW & REPLACEMENT PART LIST

| Level | LocationNo. | Description    | PartNumber  | Spec                                               | Remark |
|-------|-------------|----------------|-------------|----------------------------------------------------|--------|
| 4     | MJN01       | Tape           | MJN68123501 | COMPLEX LGP700.AFRAWH ZZ:Without Color -           |        |
| 4     | MJN00       | Tape           | MJN68227201 | COMPLEX LGP700.AFRAWH ZZ:Without Color -           |        |
| 4     | MEZ000000   | Label          | MLAZ0038303 | COMPLEX LG-LC3200 WA:White PRINTING, PPRI PRINTING |        |
| 4     | MAZ00       | Bracket        | MAZ63410101 | MOLD PA LGP700.AFRAWH ZZ:Without Color -           |        |
| 4     | MBL00       | Cap            | MBL65280101 | MOLD PC LGP700.AFRAWH BK:Black -                   |        |
| 4     | MCQ00       | Damper,Speaker | MCQ66917201 | COMPLEX LGP700.AFRAWH ZZ:Without Color -           |        |
| 4     | MCQ01       | Damper,Motor   | MCQ66951301 | COMPLEX LGP700.AFRAWH ZZ:Without Color -           |        |
| 4     | MCQ02       | Damper         | MCQ67068501 | COMPLEX LGP700.AFRAWH ZZ:Without Color -           |        |
| 4     | MCQ03       | Damper,LCD     | MCQ67068601 | COMPLEX LGP700.AFRAWH ZZ:Without Color -           |        |
| 4     | MCQ04       | Damper         | MCQ67069101 | COMPLEX LGP700.AFRAWH ZZ:Without Color -           |        |
| 4     | MDS00       | Gasket         | MDS64000801 | COMPLEX LGP700.AFRAWH ZZ:Without Color -           |        |
| 4     | MEA01       | Guide          | MEA62991001 | COMPLEX LGP700.AFRAWH ZZ:Without Color -           |        |
| 4     | MEA00       | Guide          | MEA63050001 | COMPLEX LGP700.AFRAWH ZZ:Without Color -           |        |
| 4     | MEV000000   | Insulator      | MEV64174801 | COMPLEX LGP700.AFRAWH ZZ:Without Color -           |        |
| 4     | MEV00       | Insulator      | MEV64176901 | COMPLEX LGP700.AFRAWH ZZ:Without Color -           |        |
| 4     | MJN061100   | Tape,Protect   | MJN68106501 | COMPLEX LGP700.AFRAWH ZZ:Without Color -           |        |
| 4     | MJN02       | Tape,Window    | MJN68114301 | COMPLEX LGP700.AFRAWH ZZ:Without Color -           |        |

## 12. EXPLODED VIEW & REPLACEMENT PART LIST

| Level | LocationNo. | Description               | PartNumber  | Spec                                                                                    | Remark |
|-------|-------------|---------------------------|-------------|-----------------------------------------------------------------------------------------|--------|
| 1     | AAD000000   | Addition Assembly         | AAD86056501 | LGP705.ACISWH WH:WHITE WHITE -                                                          |        |
| 2     | MEZ002101   | Label,Approval            | MEZ64570001 | CUTTING LAMI LGP940.ACISBK WA:White -                                                   |        |
| 2     | MEZ002100   | Label,Approval            | MEZ64188201 | COMPLEX LGA190.ACISBK ZZ:Without Color -                                                |        |
| 2     | AFN053800   | Manual Assembly Operation | AFN75754701 | LGP705.ACISBK ZZ:Without Color Manual assy for LGP705 CIS                               |        |
| 2     | ACQ02       | Cover Assembly,Battery    | ACQ86009201 | LGP700.AFRAWH WH:WHITE WHITE -                                                          |        |
| 3     | MCK004100   | Cover,Battery             | MCK67152501 | MOLD PC LGP700.AFRAWH WH:WHITE WHITE -                                                  |        |
| 3     | MEZ000000   | Sheet                     | MHK63800001 | COMPLEX LGP700.AFRAWH ZZ:Without Color -                                                |        |
| 3     | MEV000000   | Insulator                 | MEV64212401 | COMPLEX LGP700.AFRAWH ZZ:Without Color -                                                |        |
| 3     | MCR000000   | Decor                     | MCR64808601 | COMPLEX LGP700.AFRAWH ZZ:Without Color -                                                |        |
| 1     | AGF000000   | Package Assembly          | AGF76485603 | LGP705.ACISWH ZZ:Without Color LGP705 CIS( S6T/CIS UB/CIS LB_CH) 480ea/Pallet           |        |
| 2     | MEZ000000   | Label                     | MLAZ0050901 | COMPLEX KU990.AGBRBK ZZ:Without Color Battery Warning Label (Lithium ion Battery Label) |        |
| 2     | MAY084000   | Box,Unit                  | MAY65535504 | PRINTING LGP705.ACISWH ZZ:Without Color LGP705 CIS Unit Box(S6T)                        |        |
| 2     | AGJ000000   | Pallet Assembly           | AGJ73458304 | LGE510.ACISBK ZZ:Without Color S6T Type_CIS Body+Cap+AL(1200x800x800)_480EA             |        |
| 3     | MCQ000000   | Damper                    | MCQ66486911 | COMPLEX LGE730.ACISBK ZZ:Without Color S6T-CIS Dead Space Sleeve(480EA/1200*800)        |        |
| 3     | MBL007000   | Cap,Box                   | MCCL0002604 | COMPLEX LGE730.ANLDKT ZZ:Without Color S6T-STD Cap(800EA/1200*800)                      |        |
| 3     | MAY010800   | Box,Carton                | MBEC0004405 | COMPLEX LGE730.ACISBK ZZ:Without Color S6T-CIS Body(480EA/h:800 under/1200*800)         |        |

## 12. EXPLODED VIEW & REPLACEMENT PART LIST

| Level | LocationNo. | Description      | PartNumber  | Spec                                                                                                                  | Remark |
|-------|-------------|------------------|-------------|-----------------------------------------------------------------------------------------------------------------------|--------|
| 3     | MGA000000   | Pallet           | MPCY0012403 | COMPLEX KG800 FRABK DB:DARK BLUE -                                                                                    |        |
| 2     | MEZ084100   | Label,Unit Box   | MLAQ0018301 | PRINTING GS200 CISBK ZZ:Without Color Unit Box Label(CIS USE-LGE-Peel-90*40) CIS only_China_Peel_unit box label_90x40 |        |
| 2     | MEZ047200   | Label,Master Box | MLAJ0004402 | PRINTING CG300 CGR DG ZZ:Without Color LABEL MASTER BOX(for CGR TDR 2VER. mbox_label) GSM standard_master box label   |        |
| 2     | MAY047100   | Box,Master       | MBEE0061004 | COMPLEX LGE730.ANLDKT ZZ:Without Color S6T_STD Master Box(10EA)                                                       |        |
| 2     | MAF086500   | Bag,Vinyl        | MBAD0005204 | COMPLEX LG-LX260 SPRAG ZZ:Without Color -                                                                             |        |

## 12. EXPLODED VIEW & REPLACEMENT PART LIST

### 12.2 Replacement Parts <Main component>

**Note:** This Chapter is used for reference, Part order is ordered by SBOM standard on GCSC

| Level | LocationNo.                                                          | Description                | PartNumber  | Spec                                                                                            | Remark |
|-------|----------------------------------------------------------------------|----------------------------|-------------|-------------------------------------------------------------------------------------------------|--------|
| 3     | EBR02                                                                | PCB Assembly, Main         | EBR75418001 | LGP705.ACISWH 1.0 Main                                                                          |        |
| 4     | EBR071800                                                            | PCB Assembly Main, SMT     | EBR75440701 | LGP705.ANGRBK 1.0 Main                                                                          |        |
| 5     | SAD010000                                                            | Software, Mobile           | SAD33443301 | Base V09i - EUROPE QCT -                                                                        |        |
| 5     | EBR071700                                                            | PCB Assembly Main, SMT Top | EBR75440901 | LGP705.ANGRBK 1.0 Main                                                                          |        |
| 6     | R212                                                                 | Resistor, Chip             | ERHZ0000406 | MCR01MZP5J104 100KOHM 5% 1/16W 1005 R/TP - ROHM.                                                |        |
| 6     | R400<br>R401<br>R402<br>R403<br>R404<br>R405<br>R406<br>R407<br>R410 | Resistor, Chip             | ERHZ0000486 | MCR01MZP5J473 47KOHM 5% 1/16W 1005 R/TP - ROHM.                                                 |        |
| 6     | R514                                                                 | Resistor, Chip             | ERHZ0000493 | MCR01MZP5J513 51KOHM 5% 1/16W 1005 R/TP - ROHM.                                                 |        |
| 6     | R505                                                                 | Resistor, Chip             | ERHZ0000537 | MCR01MZP5F6803 680KOHM 1% 1/16W 1005 R/TP - ROHM.                                               |        |
| 6     | R525                                                                 | Resistor, Chip             | ERHZ0003001 | MCR01MZP5F3002 30KOHM 1% 1/16W 1005 R/TP - ROHM.                                                |        |
| 6     | IC700                                                                | IC, Audio Sub System       | EUSY0420001 | TPA2055D3 1.6~5.5V 0W WLCSP R/TP 20P - TEXAS INSTRUMENTS INCO.                                  |        |
| 6     | FB702<br>FB703                                                       | Filter, Bead               | SFBH0008101 | BLM15AG601SN1D 600 ohm 1.0X0.5X0.5 25% 0.6 ohm 0.3A SMD R/TP 2P 0 MURATA MANUFACTURING CO.,LTD. |        |
| 6     | X500                                                                 | Crystal                    | EAW61843401 | Q13FC1350000200 32.768KHZ 20PPM 0.000000000007F NONE SMD R/TP EPSON TOYOCOM CORP                |        |

## 12. EXPLODED VIEW & REPLACEMENT PART LIST

| Level | LocationNo.                                  | Description                   | PartNumber  | Spec                                                                                                                                                                                                                                             | Remark |
|-------|----------------------------------------------|-------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 6     | C511                                         | Capacitor,TA,Confo<br>rmal    | ECTH0002703 | TCTAL1A107M8R-V2 100uF 20% 10V 50UA -<br>55TO+125C 2.5OHM 3.2X1.6X1.1MM NONE SMD<br>R/TP 1.2T max. ROHM CO.,LTD.                                                                                                                                 |        |
| 6     | R710<br>R711<br>R712<br>R713                 | Resistor,Chip                 | ERHY0009526 | MCR006YZPJ472 4.7KOHM 5% 1/20W 0603 R/TP<br>- ROHM.                                                                                                                                                                                              |        |
| 6     | R213<br>R532                                 | PCB ASSY,MAIN<br>PAD OPEN     | SAFO0000401 | AX3100 ATL SV_SHIPBACK,MAIN,A,0OHM DNI                                                                                                                                                                                                           |        |
| 6     | R218<br>R219<br>R300<br>R301<br>R302<br>R303 | PCB<br>ASSY,MAIN,PAD<br>SHORT | SAFP0000401 | LG-LU3000 LGTBK,MAIN,A,                                                                                                                                                                                                                          |        |
| 6     | C507<br>C534<br>C741                         | Capacitor<br>Ceramic,Chip     | EAE62502901 | CL05A106MP5NUNC 10uF 20% 10V X5R -<br>55TO+85C 1005 R/TP 0.55T max. SAMSUNG<br>ELECTRO-MECHANICS CO., LTD.                                                                                                                                       |        |
| 6     | C550                                         | Capacitor<br>Ceramic,Chip     | EAE62505701 | CL10A105KB8NNNC 1uF 10% 50V X5R -<br>55TO+85C 1608 R/TP 0.9T max. SAMSUNG<br>ELECTRO-MECHANICS CO., LTD.                                                                                                                                         |        |
| 6     | C505<br>C506<br>C509                         | Capacitor<br>Ceramic,Chip     | EAE62506501 | CL05A475MP5NRNC 4.7uF 20% 10V X5R -<br>55TO+85C 1005 R/TP - SAMSUNG ELECTRO-<br>MECHANICS CO., LTD.                                                                                                                                              |        |
| 6     | C575<br>C576                                 | Capacitor<br>Ceramic,Chip     | EAE62685301 | CL05A105KA5NQNC 1uF 10% 25V X5R -<br>55TO+85C 1005 R/TP 0.6T max. SAMSUNG<br>ELECTRO-MECHANICS CO., LTD.                                                                                                                                         |        |
| 6     | D200<br>D700                                 | Diode,Switching               | EAH61532901 | BA891_ 1V 35V - - 0SEC 715mW SOD523 R/TP 2P<br>1 NXP Semiconductors                                                                                                                                                                              |        |
| 6     | D500                                         | Diode,TVS                     | EAH61872601 | PESD12VS1UA 12V 13.3V min. 19V 22.5A 360mW<br>SOD323 R/TP 2P 1 NXP Semiconductors                                                                                                                                                                |        |
| 6     | U501                                         | IC,PMIC                       | EAN62090501 | PM8029 3 to 4.4V adj 1.3W NSP R/TP 140P -<br>QUALCOMM INCORPORATED.                                                                                                                                                                              |        |
| 6     | U400                                         | IC,MCP,eMMC                   | EAN62171901 | H9DP32A4JJCGR-KEM NAND/4G<br>SDRAM/4G(2G*2/ 32bit)<br>1.7VTO1.95V,2.7VTO3.6V,1.7VTO1.95V<br>11.5x13.0x0.9 TR 153P NAND+DDR SDRAM FBGA<br>4GB eMMC v4.41+4Gb LPDDR1 200MHz x32 2CS<br>(27nm 32Gb MLC NAND+44nm 2Gb LPDDR1)<br>HYNIX SEMICONDUCTOR |        |

## 12. EXPLODED VIEW & REPLACEMENT PART LIST

| Level | LocationNo.  | Description                      | PartNumber  | Spec                                                                                                         | Remark |
|-------|--------------|----------------------------------|-------------|--------------------------------------------------------------------------------------------------------------|--------|
| 6     | U502         | IC,DC,DC Converter               | EAN62186901 | LM3530TMX-40 NOPB 2.7 to 5.5V adj 0W CSP R/TP 12P - NATIONAL SEMICONDUCTOR CORPORATION.                      |        |
| 6     | U506         | IC,Mini ABB                      | EAN62339701 | LP8727- B MUIC with Charger IC CSP R/TP 25P TEXAS INSTRUMENTS KOREA LTD, HONGKONG BRANCH.                    |        |
| 6     | U200         | IC,Digital Baseband Processor,3G | EAN62408201 | MSM7227A-1-AA 576NSP,ARMv7(1GHz),HSPA7.2Mbps,FWVGA30fps,8M,MIPI CSI_DSI NSP R/TP 576P QUALCOMM INCORPORATED. |        |
| 6     | L504         | Inductor,Wire Wound,Chip         | EAP61747901 | VLS3010ET-100M 10UH 20% - 560mA 0.56 0.8 0.468OHM - - SHIELD 3.0X3.0X1.0 MM NONE R/TP TDK KOREA COOPERATION  |        |
| 6     | X200         | Oscillator VCTCXO                | EAW61563401 | KT2520F19200DCW28RAK 19.2MHZ 2PPM 2.8V 2.5x2.0x0.8MM ; SMD R/TP KYOCERA CORP.                                |        |
| 6     | EAX010000    | PCB,Main                         | EAX64550001 | LGP700.AFRABK 1.0 FR-4 Stack via 10 1.0 Main                                                                 |        |
| 6     | R515         | Resistor,Chip                    | EBC62035901 | RC0201FR-071RL 1OHM 1% 1/20W 0603 R/TP - YAGEO CORPORATION                                                   |        |
| 6     | C573         | Capacitor Ceramic,Chip           | ECCH0000115 | MCH155A220JK 22pF 5% 50V NP0 -55TO+125C 1005 R/TP - ROHM Semiconductor KOREA CORPORATION                     |        |
| 6     | C708<br>C709 | Capacitor, Ceramic,Chip          | ECCH0000143 | MCH155CN102KK 1nF 10% 50V X7R -55TO+125C 1005 R/TP - ROHM Semiconductor KOREA CORPORATION                    |        |
| 6     | C529         | Capacitor Ceramic,Chip           | ECCH0000149 | MCH155CN332KK 3.3nF 10% 50V X7R - 55TO+125C 1005 R/TP - ROHM Semiconductor KOREA CORPORATION                 |        |
| 6     | C510         | Capacitor Ceramic,Chip           | ECCH0000161 | MCH153CN333KK 33nF 10% 16V X7R - 55TO+125C 1005 R/TP - ROHM Semiconductor KOREA CORPORATION                  |        |

## 12. EXPLODED VIEW & REPLACEMENT PART LIST

| Level | LocationNo.                                                                                                          | Description               | PartNumber  | Spec                                                                                                  | Remark |
|-------|----------------------------------------------------------------------------------------------------------------------|---------------------------|-------------|-------------------------------------------------------------------------------------------------------|--------|
| 6     | C215<br>C229<br>C328<br>C513<br>C514<br>C515<br>C516<br>C517<br>C518<br>C519<br>C521<br>C700                         | Capacitor<br>Ceramic,Chip | ECCH0000182 | GRM155R61A104K 0.1uF 10% 10V X5R -<br>55TO+85C 1005 R/TP - MURATA<br>MANUFACTURING CO.,LTD.           |        |
| 6     | C203<br>C402<br>C407<br>C408<br>C412<br>C417<br>C418<br>C532<br>C533<br>C535<br>C701<br>C714<br>C715<br>C716<br>C717 | Capacitor<br>Ceramic,Chip | ECCH0000198 | CL05A225MQ5NSNC 2.2uF 20% 6.3V X5R -<br>55TO+85C 1005 R/TP . SAMSUNG ELECTRO-<br>MECHANICS CO., LTD.  |        |
| 6     | C216<br>C218<br>C400<br>C403<br>C404<br>C405<br>C406<br>C409<br>C410<br>C411<br>C413<br>C414<br>C415<br>C416<br>C419 | Capacitor<br>Ceramic,Chip | ECCH0002001 | C1005JB0J104KT000F 0.1uF 10% 6.3V Y5P -<br>30TO+85C 1005 R/TP - TDK CORPORATION                       |        |
| 6     | C401                                                                                                                 | Capacitor<br>Ceramic,Chip | ECCH0004904 | GRM155R60J105K 1uF 10% 6.3V X5R -55TO+85C<br>1005 R/TP - MURATA MANUFACTURING<br>CO.,LTD.             |        |
| 6     | C549                                                                                                                 | Capacitor<br>Ceramic,Chip | ECCH0007803 | CL10A106MP8NNNC 10uF 20% 10V X5R -<br>55TO+85C 1608 R/TP 0.8MM SAMSUNG<br>ELECTRO-MECHANICS CO., LTD. |        |

## 12. EXPLODED VIEW & REPLACEMENT PART LIST

| Level | LocationNo.                                                          | Description               | PartNumber  | Spec                                                                                                                                          | Remark |
|-------|----------------------------------------------------------------------|---------------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 6     | C201<br>C208<br>C209<br>C210<br>C211<br>C212<br>C213<br>C220<br>C221 | Capacitor<br>Ceramic,Chip | ECCH0009101 | C0603X5R0J104KT00NN 0.1uF 10% 6.3V X5R -<br>55TO+85C 0603 R/TP - TDK CORPORATION                                                              |        |
| 6     | C222                                                                 | Capacitor<br>Ceramic,Chip | ECCH0009106 | C0603X7R1C103KT 10nF 10% 10V X7R -<br>55TO+125C 0603 R/TP - TDK CORPORATION                                                                   |        |
| 6     | C207                                                                 | Capacitor<br>Ceramic,Chip | ECCH0009107 | GRM033R71C222K 2.2nF 10% 16V X7R -<br>55TO+125C 0603 R/TP - KOREA MURATA<br>ELECTRONICS CO. LTD.                                              |        |
| 6     | C223                                                                 | Capacitor<br>Ceramic,Chip | ECCH0009506 | MCH032A270JK 27pF 5% 25V NP0 -55TO+125C<br>0603 R/TP - ROHM.                                                                                  |        |
| 6     | C225                                                                 | Capacitor<br>Ceramic,Chip | ECCH0010501 | GRM1555C1H7R5D 7.5pF 0.5PF 50V C0G -<br>55TO+125C 1005 R/TP - MURATA<br>MANUFACTURING CO.,LTD.                                                |        |
| 6     | C706<br>C707                                                         | Capacitor<br>Ceramic,Chip | ECCH0017301 | CL03A105MQ3CSNH 0.000001F 20% 6.3V X5R -<br>45TO+85C 0603 R/TP - SAMSUNG ELECTRO-<br>MECHANICS CO., LTD.                                      |        |
| 6     | C300<br>C341<br>C524<br>C525<br>C526<br>C527                         | Capacitor<br>Ceramic,Chip | ECCH0017501 | CL10A226MQ8NRNE 22uF 20% 6.3V X5R -<br>55TO+85C 1608 R/TP 0.8MM SAMSUNG<br>ELECTRO-MECHANICS CO., LTD.                                        |        |
| 6     | C202                                                                 | Capacitor<br>TA,Conformal | ECTH0001903 | F980J226MMA 22uF 20% 6.3V 1.4UA -55TO+125C<br>80HM 1.6X0.85X0.8MM NONE SMD R/TP 0.9T<br>max. NICHICON CORPORATION, EAST JAPAN<br>SALES OFFICE |        |
| 6     | C574                                                                 | Capacitor<br>Ceramic,Chip | ECZH0000813 | C1005C0G1H101JT 100pF 5% 50V C0G -<br>55TO+125C 1005 R/TP - TDK KOREA<br>COOPERATION                                                          |        |

## 12. EXPLODED VIEW & REPLACEMENT PART LIST

| Level | LocationNo.                                                                                                                                                                          | Description               | PartNumber  | Spec                                                                                   | Remark |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-------------|----------------------------------------------------------------------------------------|--------|
| 6     | C503<br>C508<br>C520<br>C530<br>C531<br>C536<br>C537<br>C538<br>C539<br>C540<br>C541<br>C542<br>C543<br>C544<br>C545<br>C546<br>C547<br>C548<br>C559<br>C565<br>C566<br>C567<br>C726 | Capacitor<br>Ceramic,Chip | ECZH0001215 | C1005X5R1A105KT000F 1uF 10% 10V X5R -<br>55TO+85C 1005 R/TP - TDK KOREA<br>COOPERATION |        |

## 12. EXPLODED VIEW & REPLACEMENT PART LIST

| Level | LocationNo.                                                                                                                                                                                                                                                          | Description               | PartNumber  | Spec                                                                                           | Remark |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-------------|------------------------------------------------------------------------------------------------|--------|
| 6     | C302<br>C303<br>C304<br>C305<br>C306<br>C307<br>C308<br>C309<br>C314<br>C315<br>C316<br>C317<br>C318<br>C319<br>C320<br>C321<br>C322<br>C323<br>C324<br>C325<br>C326<br>C327<br>C329<br>C332<br>C333<br>C334<br>C336<br>C338<br>C339<br>C340<br>C343<br>C345<br>C346 | Capacitor<br>Ceramic,Chip | ECZH0001217 | GRM155R60J474K 470nF 10% 6.3V X5R -<br>25TO+70C 1005 BK-DUP - MURATA<br>MANUFACTURING CO.,LTD. |        |
| 6     | C711<br>C713                                                                                                                                                                                                                                                         | Capacitor<br>Ceramic,Chip | ECZH0003126 | GRM155R71A393K 39nF 10% 10V X7R -<br>55TO+125C 1005 R/TP - MURATA<br>MANUFACTURING CO.,LTD.    |        |
| 6     | C205<br>C206<br>C504                                                                                                                                                                                                                                                 | Capacitor<br>Ceramic,Chip | ECZH0025916 | GRM0335C1E330J 33pF 5% 25V NP0 -<br>55TO+125C 0603 R/TP - MURATA<br>MANUFACTURING CO.,LTD.     |        |
| 6     | C200<br>C228                                                                                                                                                                                                                                                         | Capacitor<br>Ceramic,Chip | ECZH0025917 | GRM0335C1E470J 47pF 5% 25V NP0 -<br>55TO+125C 0603 R/TP - MURATA<br>MANUFACTURING CO.,LTD.     |        |
| 6     | C214<br>C224                                                                                                                                                                                                                                                         | Capacitor<br>Ceramic,Chip | ECZH0025920 | GRM033R71C102K 1nF 10% 16V X7R -<br>55TO+125C 0603 R/TP - MURATA<br>MANUFACTURING CO.,LTD.     |        |
| 6     | D502                                                                                                                                                                                                                                                                 | Diode,Switching           | EDSY0011901 | SDB310Q 340mV 30V 200mA 1A 0SEC 150mW<br>EMD2 R/TP 2P 1 AUK CORP                               |        |

## 12. EXPLODED VIEW & REPLACEMENT PART LIST

| Level | LocationNo.          | Description                 | PartNumber  | Spec                                                                                                        | Remark |
|-------|----------------------|-----------------------------|-------------|-------------------------------------------------------------------------------------------------------------|--------|
| 6     | D503                 | Diode,Switching             | EDSY0018601 | SDS511Q 1.2V 85V 100mA 2A 4NSEC 150mW<br>SOD523 R/TP 2P 1 AUK CORP                                          |        |
| 6     | ZD600                | Diode,TVS                   | EDTY0012101 | PESD5V0F1BL 5.5V 6V min 11V 2.5A - SOD-882<br>R/TP 2P 1 STC CORP.                                           |        |
| 6     | D501<br>D504         | Diode,TVS                   | EDTY0012102 | PESD5V0V1BL 5V 5.8V min. 12.5V 4.8A 45W<br>SOD-882 R/TP 2P 1 STC CORP.                                      |        |
| 6     | L200                 | Inductor<br>Multilayer,Chip | ELCH0010401 | LK1005 2R2K-T 2.2UH 10% - 20mA - - 1.7OHM<br>40MHZ 20 SHIELD NONE 1.0X0.5X0.5MM R/TP<br>TAIYO YUDEN CO.,LTD |        |
| 6     | L502<br>L503         | Inductor,Wire<br>Wound,Chip | ELCP0008013 | MIPSZ2012D2R2 2.2UH 30% - 700mA 0.77 0.7<br>0.23OHM - - SHIELD 2.0X1.2X1.0 MM NONE R/TP<br>FDK CORPORATION. |        |
| 6     | L500<br>L501         | Inductor,Wire<br>Wound,Chip | ELCP0014201 | 1239AS-H-2R2N=P2 2.2UH 30% - 1.6A 2.2 1.6<br>0.108OHM - - SHIELD 2.5X2.0X1.2MM NONE R/TP<br>TOKO, INC.      |        |
| 6     | R506<br>R529<br>R530 | Resistor,Chip               | ERHY0000254 | MCR01MZP5J472 4.7KOHM 5% 1/16W 1005 R/TP<br>- ROHM.                                                         |        |
| 6     | R203                 | Resistor,Chip               | ERHY0003301 | MCR01MZP5J101 100OHM 5% 1/16W 1005 R/TP -<br>ROHM.                                                          |        |
| 6     | R517<br>R518<br>R519 | Resistor,Chip               | ERHY0009303 | MCR006YZPF1002 10KOHM 1% 1/20W 0603 R/TP<br>- ROHM.                                                         |        |
| 6     | R216<br>R508<br>R510 | Resistor,Chip               | ERHY0009311 | MCR006YZPF51R0 51OHM 1% 1/20W 0603 R/TP<br>- ROHM.                                                          |        |
| 6     | R200<br>R214<br>R217 | Resistor,Chip               | ERHY0009505 | MCR006YZPJ103 10KOHM 5% 1/20W 0603 R/TP -<br>ROHM.                                                          |        |
| 6     | R504                 | Resistor,Chip               | ERHY0009517 | MCR006YZPJ223 22KOHM 5% 1/20W 0603 R/TP -<br>ROHM.                                                          |        |
| 6     | R500                 | Resistor,Chip               | ERHY0009536 | MCR006YZPF1003 100KOHM 1% 1/20W 0603<br>R/TP - ROHM.                                                        |        |
| 6     | R202                 | Resistor,Chip               | ERHY0009586 | MCR006YZPF2201 2.2KOHM 1% 1/20W 0603<br>R/TP - ROHM.                                                        |        |
| 6     | R215                 | Resistor,Chip               | ERHY0042405 | RC0201FR-074K02L 4.02KOHM 1% 1/20W 0603<br>R/TP - YAGEO CORPORATION                                         |        |

## 12. EXPLODED VIEW & REPLACEMENT PART LIST

| Level | LocationNo.          | Description                     | PartNumber  | Spec                                                                                                 | Remark |
|-------|----------------------|---------------------------------|-------------|------------------------------------------------------------------------------------------------------|--------|
| 6     | R208                 | Resistor,Chip                   | ERHY0042409 | RC0201FR-0749R9L 49.9OHM 1% 1/20W 0603 R/TP - YAGEO CORPORATION                                      |        |
| 6     | R524                 | Resistor,Chip                   | ERHZ0000201 | MCR01MZIP5F1000 100OHM 1% 1/16W 1005 R/TP - ROHM.                                                    |        |
| 6     | R544                 | Resistor,Chip                   | ERHZ0000203 | MCR01MZIP5F1002 10KOHM 1% 1/16W 1005 R/TP - ROHM.                                                    |        |
| 6     | R501                 | Resistor,Chip                   | ERHZ0000204 | MCR01MZIP5F1003 100KOHM 1% 1/16W 1005 R/TP - ROHM.                                                   |        |
| 6     | R204                 | Resistor,Chip                   | ERHZ0000206 | MCR01MZIP5F10R0 10OHM 1% 1/16W 1005 R/TP - ROHM.                                                     |        |
| 6     | R503                 | Resistor,Chip                   | ERHZ0000288 | MCR01MZIP5F4703 470KOHM 1% 1/16W 1005 R/TP - ROHM.                                                   |        |
| 6     | R533                 | Resistor,Chip                   | ERHZ0000318 | MCR01MZIP5F8062 80.6KOHM 1% 1/16W 1005 R/TP - ROHM.                                                  |        |
| 6     | R509                 | Resistor,Chip                   | ERHZ0000323 | MCR01MZIP5F9102 91KOHM 1% 1/16W 1005 R/TP - ROHM.                                                    |        |
| 6     | R408<br>R528         | Resistor,Chip                   | ERHZ0000405 | MCR01MZIP5J103 10KOHM 5% 1/16W 1005 R/TP - ROHM.                                                     |        |
| 5     | EBR071600            | PCB Assembly<br>Main,SMT Bottom | EBR75440801 | LGP705.ANGRBK 1.0 Main                                                                               |        |
| 6     | C836                 | Capacitor<br>Ceramic,Chip       | EAE62286801 | CL03A104KP3NNNC 0.0000001F 10% 10V X5R - 55TO+85C 0603 R/TP 0.3 SAMSUNG ELECTRO-MECHANICS CO., LTD.  |        |
| 6     | C507<br>C534<br>C741 | Capacitor<br>Ceramic,Chip       | EAE62502901 | CL05A106MP5NUNC 10uF 20% 10V X5R - 55TO+85C 1005 R/TP 0.55T max. SAMSUNG ELECTRO-MECHANICS CO., LTD. |        |
| 6     | C550                 | Capacitor<br>Ceramic,Chip       | EAE62505701 | CL10A105KB8NNNC 1uF 10% 50V X5R - 55TO+85C 1608 R/TP 0.9T max. SAMSUNG ELECTRO-MECHANICS CO., LTD.   |        |
| 6     | L1011                | Capacitor<br>Ceramic,Chip       | EAE62621801 | C1005NPO758CGTQ 0.75pF 0.25PF 50V C0G - 55TO+125C 1005 R/TP 0.55MM DARFON ELECTRONICS CORP.          |        |
| 6     | C845                 | Capacitor<br>Ceramic,Chip       | EAE62767201 | CL21A476MQ9LRNB 47uF -20TO20% 6.3V X5R - 55TO+85C 2012 R/TP 0.9T SAMSUNG ELECTRO-MECHANICS CO., LTD. |        |
| 6     | FB801                | Filter,Bead                     | EAM62150301 | CIM05J600NC 60 ohm 1.0X0.5X0.5 25% 0.2 ohm 0.65A SMD R/TP 2P 0 SAMSUNG ELECTRO-MECHANICS CO., LTD.   |        |

## 12. EXPLODED VIEW & REPLACEMENT PART LIST

| Level | LocationNo.            | Description               | PartNumber  | Spec                                                                                                                                                                | Remark |
|-------|------------------------|---------------------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 6     | FB800                  | Filter,Bead               | EAM62471001 | BLM03AX241SN1D 240 ohm 0.6X0.3X0.33 25%<br>0.38 ohm 0.35A SMD R/TP 2P 0 MURATA<br>MANUFACTURING CO.,LTD.                                                            |        |
| 6     | U800                   | IC,Bluetooth              | EAN61966101 | WCN-2243-0-58BWLNSP-S/TR-05<br>17VTO2.7V,2.2VTO3V,1.7VTO1.9V 120mW 58P -<br>WLCSP R/TP-T 58P QUALCOMM<br>INCORPORATED.                                              |        |
| 6     | U700                   | IC,Comparator             | EAN62065901 | MAX14579E 2.5~5.5V 2uA COMPARATOR TDFN<br>R/TP 8P Headset Jack Detection IC with LDO, 15kV<br>ESD MAXIM INTEGRATED PRODUCTS INC.                                    |        |
| 6     | U1000                  | IC,RF<br>Transceiver,3G   | EAN62090401 | RTR6285A GSM/EDGE/3G Quad with MSM7227A<br>CSP R/TP 137P QUALCOMM INCORPORATED.                                                                                     |        |
| 6     | U802                   | IC,WiFi                   | EAN62416201 | WCN1314-0-87WLNSP-TR-0D WCN1314 Revision<br>version, WiFi(11bgn) single band, 3.95x4.16x0.63,<br>0.4pitch, 65nm, WLCSP R/TP 87P QUALCOMM<br>INCORPORATED.           |        |
| 6     | U1001                  | Module,Tx Module          | EAT61674101 | SKY77544-52 0DBM 0DB 0% 0A 0A 0DB 0DBM<br>0DBM 28P 6.0x6.0x0.9MM WGP RS TxM Quad Tx,<br>Quad Rx, SP9T, Triple WCDMA Port, 28pin,<br>6*6*0.9 SKYWORKS SOLUTIONS INC. |        |
| 6     | C1097<br>C809<br>C837  | Capacitor<br>Ceramic,Chip | ECCH0000110 | MCH155A100D 10pF 0.5PF 50V NP0 -55TO+125C<br>1005 R/TP - ROHM Semiconductor KOREA<br>CORPORATION                                                                    |        |
| 6     | C1068                  | Capacitor<br>Ceramic,Chip | ECCH0000112 | MCH155C150J 15pF 5% 50V NP0 -55TO+125C<br>1005 R/TP - ROHM Semiconductor KOREA<br>CORPORATION                                                                       |        |
| 6     | C1058<br>C1064<br>C819 | Capacitor<br>Ceramic,Chip | ECCH0000113 | MCH155A180J 18pF 5% 50V NP0 -55TO+125C<br>1005 R/TP - ROHM Semiconductor KOREA<br>CORPORATION                                                                       |        |
| 6     | C573                   | Capacitor<br>Ceramic,Chip | ECCH0000115 | MCH155A220JK 22pF 5% 50V NP0 -55TO+125C<br>1005 R/TP - ROHM Semiconductor KOREA<br>CORPORATION                                                                      |        |
| 6     | C753                   | Capacitor<br>Ceramic,Chip | ECCH0000120 | MCH155A390J 39pF 5% 50V NP0 -55TO+125C<br>1005 R/TP - ROHM Semiconductor KOREA<br>CORPORATION                                                                       |        |
| 6     | C804<br>C816<br>C823   | Capacitor<br>Ceramic,Chip | ECCH0000122 | MCH155A470JK 47pF 5% 50V NP0 -55TO+125C<br>1005 R/TP - ROHM Semiconductor KOREA<br>CORPORATION                                                                      |        |

## 12. EXPLODED VIEW & REPLACEMENT PART LIST

| Level | LocationNo.                                                          | Description               | PartNumber  | Spec                                                                                                   | Remark |
|-------|----------------------------------------------------------------------|---------------------------|-------------|--------------------------------------------------------------------------------------------------------|--------|
| 6     | C1104<br>C811<br>C815                                                | Capacitor<br>Ceramic,Chip | ECCH0000155 | MCH153CN103KK 10nF 10% 16V X7R -<br>55TO+125C 1005 R/TP - ROHM Semiconductor<br>KOREA CORPORATION      |        |
| 6     | C1095<br>C1096<br>C1099                                              | Capacitor<br>Ceramic,Chip | ECCH0000175 | GRM1555C1H2R7B 2.7pF 0.1PF 50V NP0 -<br>55TO+125C 1005 R/TP - MURATA<br>MANUFACTURING CO.,LTD.         |        |
| 6     | C1012<br>C1014<br>C1103                                              | Capacitor<br>Ceramic,Chip | ECCH0000180 | GRM1555C1H3R3C 3.3pF 0.25PF 50V NP0 -<br>55TO+125C 1005 R/TP - MURATA<br>MANUFACTURING CO.,LTD.        |        |
| 6     | C1000<br>C1001<br>C1008<br>C1011                                     | Capacitor<br>Ceramic,Chip | ECCH0000187 | GRM1555C1H151J 150pF 5% 50V NP0 -<br>55TO+125C 1005 R/TP - MURATA<br>MANUFACTURING CO.,LTD.            |        |
| 6     | C1086<br>C1093                                                       | Capacitor<br>Ceramic,Chip | ECCH0000195 | GRM1555C1H3R9C 3.9pF 0.25PF 50V NP0 -<br>55TO+125C 1005 R/TP - MURATA<br>MANUFACTURING CO.,LTD.        |        |
| 6     | C401                                                                 | Capacitor<br>Ceramic,Chip | ECCH0004904 | GRM155R60J105K 1uF 10% 6.3V X5R -55TO+85C<br>1005 R/TP - MURATA MANUFACTURING<br>CO.,LTD.              |        |
| 6     | C1028<br>C610                                                        | Capacitor<br>Ceramic,Chip | ECCH0005604 | GRM188R60J106M 10000000<br>pF,6.3V,M,X5R,TC,1608,R/TP,0.8 mm MURATA<br>MANUFACTURING CO.,LTD.          |        |
| 6     | C601<br>C834<br>C849                                                 | Capacitor<br>Ceramic,Chip | ECCH0007804 | CL05A225MP5NSNC 2.2uF 20% 10V X5R -<br>55TO+85C 1005 R/TP 0.5MM SAMSUNG<br>ELECTRO-MECHANICS CO., LTD. |        |
| 6     | C201<br>C208<br>C209<br>C210<br>C211<br>C212<br>C213<br>C220<br>C221 | Capacitor<br>Ceramic,Chip | ECCH0009101 | C0603X5R0J104KT00NN 0.1uF 10% 6.3V X5R -<br>55TO+85C 0603 R/TP - TDK CORPORATION                       |        |

## 12. EXPLODED VIEW & REPLACEMENT PART LIST

| Level | LocationNo.                                                                                 | Description               | PartNumber  | Spec                                                                                                     | Remark |
|-------|---------------------------------------------------------------------------------------------|---------------------------|-------------|----------------------------------------------------------------------------------------------------------|--------|
| 6     | C1002<br>C1003<br>C1061<br>C1076<br>C1077<br>C1078<br>C1079<br>C833<br>C847<br>C848<br>C851 | Capacitor<br>Ceramic,Chip | ECCH0009103 | C0603C0G1H101JT00NN 100pF 5% 50V C0G -<br>55TO+125C 0603 R/TP - TDK CORPORATION                          |        |
| 6     | C1006<br>C1010<br>C1032                                                                     | Capacitor<br>Ceramic,Chip | ECCH0009104 | C0603C0G1H330JT00NN 33pF 5% 50V C0G -<br>55TO+125C 0603 R/TP - TDK CORPORATION                           |        |
| 6     | C222                                                                                        | Capacitor<br>Ceramic,Chip | ECCH0009106 | C0603X7R1C103KT 10nF 10% 10V X7R -<br>55TO+125C 0603 R/TP - TDK CORPORATION                              |        |
| 6     | C1066                                                                                       | Capacitor<br>Ceramic,Chip | ECCH0009109 | C0603X7R1H331KT00NN 330pF 10% 50V X7R -<br>55TO+125C 0603 R/TP - TDK CORPORATION                         |        |
| 6     | C1060<br>C803                                                                               | Capacitor<br>Ceramic,Chip | ECCH0009216 | GRM0335C1E220J 22pF 5% 25V X7R -<br>55TO+125C 0603 R/TP - MURATA<br>MANUFACTURING CO.,LTD.               |        |
| 6     | C1024                                                                                       | Capacitor<br>Ceramic,Chip | ECCH0009226 | GRM0335C1E390J 39pF 5% 25V X7R -<br>55TO+125C 0603 R/TP - MURATA<br>MANUFACTURING CO.,LTD.               |        |
| 6     | C832                                                                                        | Capacitor<br>Ceramic,Chip | ECCH0009231 | GRM033R71C471K 470pF 10% 16V X7R -<br>55TO+125C 0603 R/TP - MURATA<br>MANUFACTURING CO.,LTD.             |        |
| 6     | C838<br>C839                                                                                | Capacitor<br>Ceramic,Chip | ECCH0009514 | MCH032A(AN)100DK 10pF 0.5PF 25V X7R -<br>55TO+125C 0603 R/TP - ROHM.                                     |        |
| 6     | C706<br>C707                                                                                | Capacitor<br>Ceramic,Chip | ECCH0017301 | CL03A105MQ3CSNH 0.000001F 20% 6.3V X5R -<br>45TO+85C 0603 R/TP - SAMSUNG ELECTRO-<br>MECHANICS CO., LTD. |        |

## 12. EXPLODED VIEW & REPLACEMENT PART LIST

| Level | LocationNo.                                                                                                                                                                          | Description               | PartNumber  | Spec                                                                                                    | Remark |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-------------|---------------------------------------------------------------------------------------------------------|--------|
| 6     | C1017<br>C1029<br>C1036<br>C1038<br>C1041<br>C1048<br>C1055<br>C604<br>C606<br>C805<br>C806<br>C827                                                                                  | Capacitor<br>Ceramic,Chip | ECCH0017601 | CL05A475MQ5NRNC 4.7uF 20% 6.3V X5R -<br>55TO+85C 1005 R/TP 0.5MM SAMSUNG<br>ELECTRO-MECHANICS CO., LTD. |        |
| 6     | C835                                                                                                                                                                                 | Capacitor<br>Ceramic,Chip | ECCH0032801 | GRM033R60J224M 0.00000022F 20% 6.3V X5R -<br>55TO+85C 0603 R/TP 0.3MM MURATA<br>MANUFACTURING CO.,LTD.  |        |
| 6     | C574                                                                                                                                                                                 | Capacitor<br>Ceramic,Chip | ECZH0000813 | C1005C0G1H101JT 100pF 5% 50V C0G -<br>55TO+125C 1005 R/TP - TDK KOREA<br>COOPERATION                    |        |
| 6     | C1080<br>C1088<br>C1107                                                                                                                                                              | Capacitor<br>Ceramic,Chip | ECZH0000830 | C1005C0G1H330JT000F 33pF 5% 50V NP0 -<br>55TO+125C 1005 R/TP - TDK KOREA<br>COOPERATION                 |        |
| 6     | L1006<br>L1014<br>L1025                                                                                                                                                              | Capacitor<br>Ceramic,Chip | ECZH0001002 | C1005CH1H0R5BT000F 0.5pF 0.1PF 50V NP0 -<br>55TO+125C 1005 R/TP - TDK KOREA<br>COOPERATION              |        |
| 6     | C503<br>C508<br>C520<br>C530<br>C531<br>C536<br>C537<br>C538<br>C539<br>C540<br>C541<br>C542<br>C543<br>C544<br>C545<br>C546<br>C547<br>C548<br>C559<br>C565<br>C566<br>C567<br>C726 | Capacitor<br>Ceramic,Chip | ECZH0001215 | C1005X5R1A105KT000F 1uF 10% 10V X5R -<br>55TO+85C 1005 R/TP - TDK KOREA<br>COOPERATION                  |        |

## 12. EXPLODED VIEW & REPLACEMENT PART LIST

| Level | LocationNo.                                                                                                                                                                                                                                                          | Description               | PartNumber  | Spec                                                                                           | Remark |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-------------|------------------------------------------------------------------------------------------------|--------|
| 6     | C752                                                                                                                                                                                                                                                                 | Capacitor<br>Ceramic,Chip | ECZH0001216 | C1005X5R1A224KT000E 220nF 10% 10V X5R -<br>55TO+85C 1005 R/TP - TDK KOREA<br>COOPERATION       |        |
| 6     | C302<br>C303<br>C304<br>C305<br>C306<br>C307<br>C308<br>C309<br>C314<br>C315<br>C316<br>C317<br>C318<br>C319<br>C320<br>C321<br>C322<br>C323<br>C324<br>C325<br>C326<br>C327<br>C329<br>C332<br>C333<br>C334<br>C336<br>C338<br>C339<br>C340<br>C343<br>C345<br>C346 | Capacitor<br>Ceramic,Chip | ECZH0001217 | GRM155R60J474K 470nF 10% 6.3V X5R -<br>25TO+70C 1005 BK-DUP - MURATA<br>MANUFACTURING CO.,LTD. |        |
| 6     | C1035<br>C1039<br>C1054<br>C1085<br>C812<br>C820                                                                                                                                                                                                                     | Capacitor<br>Ceramic,Chip | ECZH0003103 | GRM36X7R104K10PT 100nF 10% 10V X7R -<br>55TO+125C 1005 R/TP - MURATA<br>MANUFACTURING CO.,LTD. |        |
| 6     | C200<br>C228                                                                                                                                                                                                                                                         | Capacitor<br>Ceramic,Chip | ECZH0025917 | GRM0335C1E470J 47pF 5% 25V NP0 -<br>55TO+125C 0603 R/TP - MURATA<br>MANUFACTURING CO.,LTD.     |        |
| 6     | C214<br>C224                                                                                                                                                                                                                                                         | Capacitor<br>Ceramic,Chip | ECZH0025920 | GRM033R71C102K 1nF 10% 16V X7R -<br>55TO+125C 0603 R/TP - MURATA<br>MANUFACTURING CO.,LTD.     |        |

## 12. EXPLODED VIEW & REPLACEMENT PART LIST

| Level | LocationNo.             | Description                 | PartNumber  | Spec                                                                                                                | Remark |
|-------|-------------------------|-----------------------------|-------------|---------------------------------------------------------------------------------------------------------------------|--------|
| 6     | L803                    | Inductor<br>Multilayer,Chip | ELCH0001035 | HK1005 4N7S-T 4.7NH 0.3NH - 300mA 0.21OHM<br>4GHZ 8 SHIELD NONE 1.0X0.5X0.5MM R/TP<br>TAIYO YUDEN CO.,LTD           |        |
| 6     | L810                    | Inductor<br>Multilayer,Chip | ELCH0001040 | HK1005 3N9S-T 3.9NH 0.3NH - 300mA 0.21OHM<br>4GHZ 8 SHIELD NONE 1.0X0.5X0.5MM R/TP<br>TAIYO YUDEN CO.,LTD           |        |
| 6     | L1007<br>L1037          | Inductor<br>Multilayer,Chip | ELCH0001048 | 1005GC2T10NJLF 10NH 5% - 250mA 0.42OHM<br>2.5GHZ 8 SHIELD NONE 1.0X0.5X0.5MM R/TP<br>PILKOR ELECTRONICS LTD.        |        |
| 6     | C1073<br>L1030          | Inductor<br>Multilayer,Chip | ELCH0001049 | 1005GC2T6N8JLF 6.8NH 5% - 250mA 0.32OHM<br>3GHZ 8 SHIELD NONE 1.0X0.5X0.5MM R/TP<br>PILKOR ELECTRONICS LTD.         |        |
| 6     | L1020                   | Inductor<br>Multilayer,Chip | ELCH0001054 | 1005GC2T5N6SLF 5.6NH 0.3NH - 300mA<br>0.27OHM 3.2GHZ 8 SHIELD NONE<br>1.0X0.5X0.5MM R/TP PILKOR ELECTRONICS<br>LTD. |        |
| 6     | L1039<br>L1040<br>L1041 | Inductor<br>Multilayer,Chip | ELCH0001056 | 1005GC2T2N7SLF 2.7NH 0.3NH - 300mA<br>0.17OHM 5.5GHZ 8 SHIELD NONE<br>1.0X0.5X0.5MM R/TP PILKOR ELECTRONICS<br>LTD. |        |
| 6     | C1018                   | Inductor<br>Multilayer,Chip | ELCH0001057 | 1005GC2T3N9SLF 3.9NH 0.3NH - 300mA<br>0.22OHM 4GHZ 8 SHIELD NONE 1.0X0.5X0.5MM<br>R/TP PILKOR ELECTRONICS LTD.      |        |
| 6     | L1027                   | Inductor<br>Multilayer,Chip | ELCH0001404 | LL1005-FHL1N5S 1.5NH 0.3NH - 400mA 0.13OHM<br>15GHZ 8 SHIELD NONE 1.0X0.5X0.5MM R/TP<br>TOKO, INC.                  |        |
| 6     | L1012<br>L1018          | Inductor<br>Multilayer,Chip | ELCH0001406 | LL1005-FHL4N7S 4.7NH 0.3NH - 300mA 0.2OHM<br>7GHZ 9 SHIELD NONE 1.0X0.5X0.5MM R/TP<br>TOKO, INC.                    |        |
| 6     | L1028<br>L1032<br>L811  | Inductor<br>Multilayer,Chip | ELCH0001411 | LL1005-FHL1N2S 1.2NH 0.3NH - 400mA 0.1OHM<br>16GHZ 7 SHIELD NONE 1.0X0.5X0.5MM R/TP<br>TOKO, INC.                   |        |
| 6     | C1094                   | Inductor<br>Multilayer,Chip | ELCH0001412 | LL1005-FHL1N8S 1.8NH 0.3NH - 400mA 0.14OHM<br>15GHZ 8 SHIELD NONE 1.0X0.5X0.5MM R/TP<br>TOKO, INC.                  |        |
| 6     | L1035                   | Inductor<br>Multilayer,Chip | ELCH0001413 | LL1005-FHL22NJ 22NH 5% - 300mA 0.7OHM<br>2.5GHZ 10 SHIELD NONE 1.0X0.5X0.5MM R/TP<br>TOKO, INC.                     |        |

## 12. EXPLODED VIEW & REPLACEMENT PART LIST

| Level | LocationNo.                      | Description                 | PartNumber  | Spec                                                                                                                       | Remark |
|-------|----------------------------------|-----------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------|--------|
| 6     | L1003<br>L801<br>L802            | Inductor<br>Multilayer,Chip | ELCH0001425 | LL1005-FHL82NJ 82NH 5% - 150mA 1.9OHM<br>1.15GHZ 10 SHIELD NONE 1.0X0.5X0.5MM R/TP<br>TOKO, INC.                           |        |
| 6     | C1106<br>C841                    | Inductor<br>Multilayer,Chip | ELCH0003815 | LQG15HS2N7S02D 2.7NH 0.3NH - 300mA<br>0.15OHM 6GHZ 8 SHIELD NONE 1.0X0.5X0.5MM<br>R/TP MURATA MANUFACTURING CO.,LTD.       |        |
| 6     | C1072<br>L1010                   | Inductor<br>Multilayer,Chip | ELCH0003819 | LQG15HS12NJ02D 12NH 5% - 300mA - - 0.28OHM<br>3GHZ 8 SHIELD NONE 1.0X0.5X0.5MM R/TP<br>MURATA MANUFACTURING CO.,LTD.       |        |
| 6     | C821                             | Inductor<br>Multilayer,Chip | ELCH0003820 | LQG15HS3N0S02D 3NH 0.3NH - 300mA 0.17OHM<br>6GHZ 8 SHIELD NONE 1.0X0.5X0.5MM R/TP<br>MURATA MANUFACTURING CO.,LTD.         |        |
| 6     | C1056                            | Inductor<br>Multilayer,Chip | ELCH0003828 | LQG15HS2N4S02D 2.4NH 0.3NH - 300mA<br>0.15OHM 6GHZ 8 SHIELD NONE 1.0X0.5X0.5MM<br>R/TP MURATA MANUFACTURING CO.,LTD.       |        |
| 6     | C1084                            | Inductor<br>Multilayer,Chip | ELCH0003832 | LQG15HS2N2S02D 2.2NH 0.3NH - 300mA - -<br>0.12OHM 6GHZ 8 SHIELD NONE 1.0X0.5X0.5MM<br>R/TP MURATA MANUFACTURING CO.,LTD.   |        |
| 6     | C802                             | Inductor<br>Multilayer,Chip | ELCH0003842 | LQG15HSR10J02D 100NH 5% - 150mA - -<br>1.25OHM 600MHZ 8 SHIELD NONE<br>1.0X0.5X0.5MM R/TP MURATA<br>MANUFACTURING CO.,LTD. |        |
| 6     | C1023<br>C1025                   | Inductor<br>Multilayer,Chip | ELCH0004701 | 1005GC2T12NJLF 12NH 5% - 250mA 0.48OHM<br>2.1GHZ 8 SHIELD NONE 1.0X0.5X0.5MM R/TP<br>PILKOR ELECTRONICS LTD.               |        |
| 6     | L1004<br>L1015<br>L1023<br>L1034 | Inductor<br>Multilayer,Chip | ELCH0004705 | 1005GC2T8N2JLF 8.2NH 5% - 250mA 0.37OHM<br>2.8GHZ 8 SHIELD NONE 1.0X0.5X0.5MM R/TP<br>PILKOR ELECTRONICS LTD.              |        |
| 6     | C1089<br>L1022<br>L806           | Inductor<br>Multilayer,Chip | ELCH0004709 | 1005GC2T3N3SLF 3.3NH 0.3NH - 300mA<br>0.19OHM 4.5GHZ 8 SHIELD NONE<br>1.0X0.5X0.5MM R/TP PILKOR ELECTRONICS<br>LTD.        |        |

## 12. EXPLODED VIEW & REPLACEMENT PART LIST

| Level | LocationNo.                      | Description                 | PartNumber  | Spec                                                                                                                | Remark |
|-------|----------------------------------|-----------------------------|-------------|---------------------------------------------------------------------------------------------------------------------|--------|
| 6     | L1029                            | Inductor<br>Multilayer,Chip | ELCH0004710 | 1005GC2T15NJLF 15NH 5% - 250mA 0.53OHM<br>2GHZ 8 SHIELD NONE 1.0X0.5X0.5MM R/TP<br>PILKOR ELECTRONICS LTD.          |        |
| 6     | L1033                            | Inductor<br>Multilayer,Chip | ELCH0004716 | 1005GC2T39NJLF 39NH 5% - 200mA 1.2OHM<br>1.2GHZ 8 SHIELD NONE 1.0X0.5X0.5MM R/TP<br>PILKOR ELECTRONICS LTD.         |        |
| 6     | L1008                            | Inductor<br>Multilayer,Chip | ELCH0004718 | 1005GC2T5N6SLF 5.6NH 0.3NH - 300mA<br>0.27OHM 3.2GHZ 8 SHIELD NONE<br>1.0X0.5X0.5MM R/TP PILKOR ELECTRONICS<br>LTD. |        |
| 6     | C1059<br>C1063<br>L1031          | Inductor<br>Multilayer,Chip | ELCH0004720 | 1005GC2T1N2SLF 1.2NH 0.3NH - 300mA - -<br>0.12OHM 9GHZ 8 SHIELD NONE 1.0X0.5X0.5MM<br>R/TP PILKOR ELECTRONICS LTD.  |        |
| 6     | C1053<br>C1057<br>C1082<br>L1038 | Inductor<br>Multilayer,Chip | ELCH0004721 | 1005GC2T2N2SLF 2.2NH 0.3NH - 300mA - -<br>0.16OHM 6GHZ 8 SHIELD NONE 1.0X0.5X0.5MM<br>R/TP PILKOR ELECTRONICS LTD.  |        |
| 6     | L1002                            | Inductor<br>Multilayer,Chip | ELCH0004727 | 1005GC2TR10JLF 100NH 5% - 100mA 2.3OHM<br>600MHZ 8 SHIELD NONE 1.0X0.5X0.5MM R/TP<br>PILKOR ELECTRONICS LTD.        |        |
| 6     | L1013                            | Inductor<br>Multilayer,Chip | ELCH0004730 | 1005GC2T33NJLF 33NH 5% - 200mA 1OHM<br>1.3GHZ 8 SHIELD NONE 1.0X0.5X0.5MM R/TP<br>PILKOR ELECTRONICS LTD.           |        |
| 6     | L800                             | Inductor<br>Multilayer,Chip | ELCH0005019 | HK1005 68NJ 68NH 5% - 180mA 1.2OHM 750MHZ<br>8 SHIELD NONE 1.0X0.5X0.5MM R/TP TAIYO<br>YUDEN CO.,LTD                |        |
| 6     | L1026                            | Inductor<br>Multilayer,Chip | ELCH0012508 | LQP15MN2N0B02D 2NH 0.1NH - 220mA 0.3OHM<br>6GHZ 13 SHIELD NONE 1.0X0.5X0.35MM R/TP<br>MURATA MANUFACTURING CO.,LTD. |        |
| 6     | CN603                            | Connector,BtoB              | ENBY0034201 | GB042-24S-H10-E3000 24P 0.40MM STRAIGHT<br>SOCKET SMD R/TP 1M - LS Mtron Ltd.                                       |        |
| 6     | CN602                            | Connector,BtoB              | ENBY0042701 | GB042-54S-H10 54P 0.4MM STRAIGHT SOCKET<br>SMD R/TP 1M - LS Mtron Ltd.                                              |        |
| 6     | CN600                            | Connector,BtoB              | ENBY0056901 | 24-5804-024-000-829+ 24P 0.40MM STRAIGHT<br>FEMALE SMD R/TP 900mM - KYOCERA ELCO<br>KOREA SALES CO.,LTD.            |        |

## 12. EXPLODED VIEW & REPLACEMENT PART LIST

| Level | LocationNo.          | Description                 | PartNumber  | Spec                                                                                                              | Remark |
|-------|----------------------|-----------------------------|-------------|-------------------------------------------------------------------------------------------------------------------|--------|
| 6     | CN601                | Connector,BtoB              | ENBY0057501 | 24-5804-034-000-829+ 34,0.4mm,STRAIGHT,gold,34,0.40MM,STRAIGHT,FEMALE,SMD,0.9T, KYOCERA ELCO KOREA SALES CO.,LTD. |        |
| 6     | SW1000               | Connector,RF                | ENWY0005501 | 20279-001E-01 NONE STRAIGHT SOCKET SMD R/TP AU 50OHM 400mDB I-PEX CO., LTD                                        |        |
| 6     | SW1001               | Connector,RF                | ENWY0008701 | MS-156C NONE STRAIGHT SOCKET SMD T/REEL AU 50OHM 400mDB HIROSE KOREA CO.,LTD                                      |        |
| 6     | CN500                | Connector<br>Terminal Block | ENZY0030301 | 04-9254-004-032-868+ 4P 2.50MM ANGLE SMD R/TP - KYOCERA ELCO KOREA SALES CO.,LTD.                                 |        |
| 6     | R1020                | Resistor,Chip               | ERHY0000137 | MCR01MZP5F2702 27KOHM 1% 1/16W 1005 R/TP - ROHM.                                                                  |        |
| 6     | R506<br>R529<br>R530 | Resistor,Chip               | ERHY0000254 | MCR01MZP5J472 4.7KOHM 5% 1/16W 1005 R/TP - ROHM.                                                                  |        |
| 6     | R517<br>R518<br>R519 | Resistor,Chip               | ERHY0009303 | MCR006YZPF1002 10KOHM 1% 1/20W 0603 R/TP - ROHM.                                                                  |        |
| 6     | R1011<br>R1012       | Resistor,Chip               | ERHY0009503 | MCR006YZPJ101 100OHM 5% 1/20W 0603 R/TP - ROHM.                                                                   |        |
| 6     | R600<br>R800         | Resistor,Chip               | ERHY0009507 | MCR006YZPJ105 1MOHM 5% 1/20W 0603 R/TP - ROHM.                                                                    |        |
| 6     | R723                 | Resistor,Chip               | ERHY0009516 | MCR006YZPJ222 2.2KOHM 5% 1/20W 0603 R/TP - ROHM.                                                                  |        |
| 6     | R1003                | Resistor,Chip               | ERHY0009524 | MCR006YZPJ470 47OHM 5% 1/20W 0603 R/TP - ROHM.                                                                    |        |
| 6     | R1010                | Resistor,Chip               | ERHY0009531 | MCR006YZPJ620 62OHM 5% 1/20W 0603 R/TP - ROHM.                                                                    |        |
| 6     | R202                 | Resistor,Chip               | ERHY0009586 | MCR006YZPF2201 2.2KOHM 1% 1/20W 0603 R/TP - ROHM.                                                                 |        |
| 6     | R1004<br>R1005       | Resistor,Chip               | ERHY0042403 | RC0201JR-07130RL 130OHM 5% 1/20W 0603 R/TP - YAGEO CORPORATION                                                    |        |
| 6     | R1007                | Resistor,Chip               | ERHZ0000212 | MCR01MZP5F1202 12KOHM 1% 1/16W 1005 R/TP - ROHM.                                                                  |        |

## 12. EXPLODED VIEW & REPLACEMENT PART LIST

| Level | LocationNo.          | Description              | PartNumber  | Spec                                                                                                                       | Remark |
|-------|----------------------|--------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------|--------|
| 6     | R807<br>R808         | Resistor,Chip            | ERHZ0000348 | MCR01MZP5F12R0 12OHM 1% 1/16W 1005 R/TP - ROHM.                                                                            |        |
| 6     | R1014<br>R621        | Resistor,Chip            | ERHZ0000401 | MCR01MZSJ000 0OHM 5% 1/16W 1005 R/TP - ROHM.                                                                               |        |
| 6     | R1013                | Resistor,Chip            | ERHZ0000404 | MCR01MZP5J102 1KOHM 5% 1/16W 1005 R/TP - ROHM.                                                                             |        |
| 6     | R408<br>R528         | Resistor,Chip            | ERHZ0000405 | MCR01MZP5J103 10KOHM 5% 1/16W 1005 R/TP - ROHM.                                                                            |        |
| 6     | R212                 | Resistor,Chip            | ERHZ0000406 | MCR01MZP5J104 100KOHM 5% 1/16W 1005 R/TP - ROHM.                                                                           |        |
| 6     | R721<br>R722<br>R806 | Resistor,Chip            | ERHZ0000407 | MCR01MZP5J105 1MOHM 5% 1/16W 1005 R/TP - ROHM.                                                                             |        |
| 6     | R1006                | Resistor,Chip            | ERHZ0000463 | MCR01MZP5J330 33OHM 5% 1/16W 1005 R/TP - ROHM.                                                                             |        |
| 6     | R514                 | Resistor,Chip            | ERHZ0000493 | MCR01MZP5J513 51KOHM 5% 1/16W 1005 R/TP - ROHM.                                                                            |        |
| 6     | R1008<br>R1009       | Resistor,Chip            | ERHZ0000517 | MCR01MZP5J910 91OHM 5% 1/16W 1005 R/TP - ROHM.                                                                             |        |
| 6     | U1003                | IC,RF Amplifier          | EUSY0365001 | BGA735 -0.3~3.6 2.7-3.0 NA 0W 0W NA 0 TSLP R/TP 16P - INFINEON TECHNOLOGIES (ASIA PACIFIC) PTE LTD.                        |        |
| 6     | U602                 | IC,LDO Voltage Regulator | EUSY0373901 | RP103K301D-TR RP103K301D-TR RP103K301D-TR,PLP1010 ,4 ,R/TP ,150mA, 3.0V Single LDO RICOH COMPANY, LTD. RICOH COMPANY, LTD. |        |
| 6     | U509                 | IC,LDO Voltage Regulator | EUSY0407101 | BU28TD4WNVX SSON004,4,R/TP,2.8V 150mA Single LDO,IC,LDO Voltage RegulatorIC,LDO Voltage Regulator ROHM.                    |        |
| 6     | U504                 | IC,LDO Voltage Regulator | EUSY0407401 | RT9032 WDFN8L,8,R/TP,Programmable Dual LDO,IC,LDO Voltage RegulatorIC,LDO Voltage Regulator RICHTEK TECHNOLOGY CORP.       |        |
| 6     | U508                 | IC,LDO Voltage Regulator | EUSY0407501 | BU18TD4WNVX SSON004,4,R/TP,1.8V 150mA Single LDO,IC,LDO Voltage RegulatorIC,LDO Voltage Regulator ROHM.                    |        |

## 12. EXPLODED VIEW & REPLACEMENT PART LIST

| Level | LocationNo. | Description             | PartNumber  | Spec                                                                                                                                         | Remark |
|-------|-------------|-------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 6     | FL1005      | Filter,Duplexer,IMT     | SDMY0003001 | B7697 2140000000 2112.4 to 2167.6 1950000000<br>1922.4 to 1977.6 2.2 1.8 2.5x2.0x0.89 DUAL SMD<br>R/TP - EPCOS PTE LTD.                      |        |
| 6     | FL1002      | Filter,Duplexer,IMT     | SDMY0003701 | B7675 942500000 925 to 960 897500000 880 to<br>915 3.5 3.1 2.5*2.0*0.68 DUAL SMD R/TP -<br>EPCOS PTE LTD.                                    |        |
| 6     | FL800       | Filter,Separator        | SFAY0012401 | LFD181G57DPFC087 0.6 22 - 2400 to 2500,1572<br>to 1578,0.6 dB,0.4 dB,22 dB,13<br>dB,1608,diplexer,GPS/WiFi, MURATA<br>MANUFACTURING CO.,LTD. |        |
| 6     | FL802       | Filter<br>Separator,FEM | SFAY0015501 | AFEM-S102 2.1 25 0 connectivity for WCN1314<br>AVAGO TECHNOLOGIES INTERNATIONAL<br>SALES PTE. LIMITED                                        |        |
| 6     | FB710       | Filter,Bead             | SFBH0008102 | BLM15HD182SN1D 1800 ohm 1.0X0.5X0.5 25%<br>2.2 ohm 0.2A SMD R/TP 2P 0 MURATA<br>MANUFACTURING CO.,LTD.                                       |        |
| 6     | FL600       | Filter,EMI/Power        | SFEY0015901 | ICMEF214P101MFR ICMEF214P101MFR<br>ICMEF214P101MFR,SMD ,ESD Common mode<br>Filter INNOCHIPS TECHNOLOGY INNOCHIPS<br>TECHNOLOGY               |        |
| 6     | FL601       | Filter,EMI/Power        | SFEY0016301 | ICMEF112P900M COMMON MODE NOISE<br>FILTER 0HZ 0F 0H SMD R/TP INNOCHIPS<br>TECHNOLOGY                                                         |        |
| 6     | FL1000      | Filter,Saw,Dual         | SFSB0001802 | SAWEN881MCN0F00 881.5MHz, 1960MHz<br>1.8*1.4*0.5 SMD R/TP 10P MURATA<br>MANUFACTURING CO.,LTD.                                               |        |
| 6     | FL1001      | Filter,Saw,Dual         | SFSB0001902 | SAWEN1G84CN0F00 1842.5MHz, 1960MHz<br>1.8*1.4*0.5 SMD R/TP 10P MURATA<br>MANUFACTURING CO.,LTD.                                              |        |
| 6     | FL1007      | Filter,Saw              | SFSY0024301 | SAFE8942MFL0F00 942.5 1.4*1.1*0.6 SMD R/TP<br>5P MURATA MANUFACTURING CO.,LTD.                                                               |        |
| 6     | FL1004      | Filter,Saw              | SFSY0028101 | SAFE81G95KA0F00 1950 1.4*1.1*0.6 SMD R/TP<br>5P MURATA MANUFACTURING CO.,LTD.                                                                |        |
| 6     | FL1006      | Filter,Saw              | SFSY0028201 | SAFE82G14FB0F00 - - - - 2P MURATA<br>MANUFACTURING CO.,LTD.                                                                                  |        |
| 6     | FL1003      | Filter,Saw              | SFSY0037501 | SAFE8897MAM0F00 897.5MHz 1.4*1.1*0.6 SMD<br>R/TP 5P MURATA MANUFACTURING CO.,LTD.                                                            |        |

## 12. EXPLODED VIEW & REPLACEMENT PART LIST

| Level | LocationNo.                                  | Description                            | PartNumber  | Spec                                                                                                                                                                                                             | Remark |
|-------|----------------------------------------------|----------------------------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 6     | FL801                                        | Filter,Saw                             | SFSY0038901 | SAFEB1G57KB0F00 SAFEB1G57KB0F00<br>SAFEB1G57KB0F00,1575.42 MHz,1.4*1.1*0.6<br>,SMD ,1574.22M~1576.62M, IL 0.8, 5pin, U-U, 50-<br>50, GPS LOW LOSS MURATA MANUFACTURING<br>CO.,LTD. MURATA MANUFACTURING CO.,LTD. |        |
| 6     | U1002                                        | IC,Power Amplifier                     | SMPY0020001 | SKY77195 SKY77195,28<br>dBm,%,A,dBc,dB,4x5,SMD,3G Dual PAM Band<br>1+8. CPL integrated SKYWORKS SOLUTIONS<br>INC.                                                                                                |        |
| 6     | U801                                         | IC,RF Amplifier                        | SMZY0025501 | RF2815 3.3*2.1*1.0,FILTER+GPS LNA+FILTER<br>MODULE,GPS, RF MICRO DEVICES INC                                                                                                                                     |        |
| 6     | C1074<br>C801                                | Capacitor<br>Ceramic,Chip              | ECZH0000802 | C1005C0G1H010CT 1pF 0.25PF 50V NP0 -<br>55TO+125C 1005 R/TP - TDK KOREA<br>COOPERATION                                                                                                                           |        |
| 6     | R213<br>R532                                 | PCB ASSY,MAIN<br>PAD OPEN              | SAFO0000401 | AX3100 ATL SV_SHIPBACK,MAIN,A,0OHM DNI                                                                                                                                                                           |        |
| 6     | R218<br>R219<br>R300<br>R301<br>R302<br>R303 | PCB ASSY<br>MAIN,PAD SHORT             | SAFP0000401 | LG-LU3000 LGTBK,MAIN,A,                                                                                                                                                                                          |        |
| 4     | EBR071500                                    | PCB Assembly<br>Main,Insert            | EBR74616902 | LGP700.AFRAWH 1.0 Main                                                                                                                                                                                           |        |
| 5     | RAA050100                                    | Resin,PC                               | BRAH0001301 | UF2040 or 3075BHF . . NONE                                                                                                                                                                                       |        |
| 5     | EBR03                                        | PCB Assembly<br>Flexible               | EBR75100102 | LGP700.AFRABK 1.0 Flexible                                                                                                                                                                                       |        |
| 6     | EBR070400                                    | PCB Assembly<br>Flexible,SMT           | EBR75100202 | LGP700.AFRABK 1.0 Flexible                                                                                                                                                                                       |        |
| 7     | EAX010700                                    | PCB,Flexible                           | EAX64658001 | LGP700.AFRABK 1.0 POLYI Multi 2 0.15 Flexible                                                                                                                                                                    |        |
| 7     | EBR070200                                    | PCB Assembly<br>Flexible,SMT<br>Bottom | EBR75036002 | LGP700.AFRABK 1.0 Flexible                                                                                                                                                                                       |        |

## 12. EXPLODED VIEW & REPLACEMENT PART LIST

| Level | LocationNo.                                                                                                          | Description                 | PartNumber  | Spec                                                                                            | Remark |
|-------|----------------------------------------------------------------------------------------------------------------------|-----------------------------|-------------|-------------------------------------------------------------------------------------------------|--------|
| 8     | C1006<br>C1010<br>C1032                                                                                              | Capacitor<br>Ceramic,Chip   | ECCH0009104 | C0603C0G1H330JT00NN 33pF 5% 50V C0G - 55TO+125C 0603 R/TP - TDK CORPORATION                     |        |
| 8     | R101<br>R103<br>R104                                                                                                 | Resistor,Chip               | ERHZ0000285 | MCR01MZP5F4700 470OHM 1% 1/16W 1005 R/TP - ROHM.                                                |        |
| 8     | VA100<br>VA101<br>VA102                                                                                              | Varistor                    | SEVY0003601 | ICVL0505101V150FR 5.6V 0% 100pF 1.0*0.5*0.55 NONE SMD R/TP INNOCHIPS TECHNOLOGY                 |        |
| 8     | CN100                                                                                                                | Socket,Card                 | EAG62830201 | 104031-0811 SD 8P ANGLE SMD R/TP 11.95x11.40x1.42t, Push-pull type MOLEX                        |        |
| 8     | D100<br>D101<br>D102                                                                                                 | Diode,TVS                   | EAH61794301 | ESD5205P6T6G 5V 5.5V min. 10V 2UA 0W SOT-963 R/TP 6P 5 ON SEMICONDUCTOR                         |        |
| 8     | C216<br>C218<br>C400<br>C403<br>C404<br>C405<br>C406<br>C409<br>C410<br>C411<br>C413<br>C414<br>C415<br>C416<br>C419 | Capacitor<br>Ceramic,Chip   | ECCH0002001 | C1005JB0J104KT000F 0.1uF 10% 6.3V Y5P - 30TO+85C 1005 R/TP - TDK CORPORATION                    |        |
| 8     | L101                                                                                                                 | Inductor,Wire<br>Wound,Chip | ELCP0014301 | 1239AS-H-1R0N=P2 1UH 30% - 2.3A 3.0 2.3 0.059OHM - - SHIELD 2.5X2.0X1.2MM NONE R/TP TOKO, INC.  |        |
| 8     | C549                                                                                                                 | Capacitor<br>Ceramic,Chip   | ECCH0007803 | CL10A106MP8NNNC 10uF 20% 10V X5R - 55TO+85C 1608 R/TP 0.8MM SAMSUNG ELECTRO-MECHANICS CO., LTD. |        |
| 8     | J100                                                                                                                 | Socket<br>DIMM/SIMM         | EAG63215801 | 5000-6P-1.5L-A1 6P STRAIGHT STANDARD SMD T/REEL - HYUPJIN I&C CO.,LTD.                          |        |

## 12. EXPLODED VIEW & REPLACEMENT PART LIST

| Level | LocationNo.                                                          | Description                      | PartNumber  | Spec                                                                                                                                | Remark |
|-------|----------------------------------------------------------------------|----------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------|--------|
| 8     | C201<br>C208<br>C209<br>C210<br>C211<br>C212<br>C213<br>C220<br>C221 | Capacitor<br>Ceramic,Chip        | ECCH0009101 | C0603X5R0J104KT00NN 0.1uF 10% 6.3V X5R -<br>55TO+85C 0603 R/TP - TDK CORPORATION                                                    |        |
| 8     | R102                                                                 | Resistor,Chip                    | ERHY0042402 | RC0201JR-0715KL 15KOHM 5% 1/20W 0603 R/TP<br>- YAGEO CORPORATION                                                                    |        |
| 8     | L100                                                                 | Resistor,Chip                    | ERHY0009501 | MCR006YZPJ000 0OHM 5% 1/20W 0603 R/TP -<br>ROHM.                                                                                    |        |
| 8     | U100                                                                 | IC,DC,DC<br>Converter            | EAN62410701 | AS3647 2.7 to 4.4V adj 0W WLCSP R/TP 13P -<br>AUSTRIAMICROSYSTEMS AG                                                                |        |
| 8     | U800                                                                 | IC,Acceleration<br>Sensor        | EAN62222201 | BMC050 Accelerometer with Geomagnetic Sensor<br>3X3X1 QFN R/TP 16P Accelerometer with<br>Geomagnetic Sensor BOSCH SENSORTEC<br>GMBH |        |
| 8     | LD100                                                                | LED,Chip                         | EDLM0009701 | EHP-C04/NT01A-P01/TR(LM) WHITE 3.35~4.15<br>1A 100~140lm x, y 6.6W - R/TP 2P - EVERLIGHT<br>ELECTRONICS CO., LTD.                   |        |
| 8     | C1060<br>C803                                                        | Capacitor<br>Ceramic,Chip        | ECCH0009216 | GRM0335C1E220J 22pF 5% 25V X7R -<br>55TO+125C 0603 R/TP - MURATA<br>MANUFACTURING CO.,LTD.                                          |        |
| 7     | EBR070300                                                            | PCB Assembly<br>Flexible,SMT Top | EBR75035902 | LGP700.AFRABK 1.0 Flexible                                                                                                          |        |
| 8     | CN102                                                                | Connector,BtoB                   | ENBY0057401 | 14-5804-034-000-829+ 34,0.4<br>mm,STRAIGHT,gold,34,0.40MM,STRAIGHT,MALE,<br>SMD,0.9T, KYOCERA ELCO KOREA SALES<br>CO.,LTD.          |        |
| 4     | EAB02                                                                | Speaker,Dual<br>Mode             | EAB62653301 | 1810-8T-08PP Fe-Ne-B 700mW 8OHM 90DB<br>750HZ 18.0 X 10.0 X 3 SPRING KIRYN TELECOM<br>CO., LTD                                      |        |
| 4     | EAA00                                                                | PIFA<br>Antenna,Multiple         | EAA62747901 | LG3369-16-000-C MULTI -2DB 5 LDS Type -<br>SHANGHAI AMPHENOL AIRWAVE                                                                |        |
| 5     | EAA030100                                                            | PIFA<br>Antenna,Multiple         | EAA62807201 | ATC-P700-F-1109 DUAL -2DB 5 FPCB Type -<br>AT&C CO.,LTD                                                                             |        |
| 4     | EBR00                                                                | PCB<br>Assembly,Flexible         | EBR75035501 | LGP700.AFRABK 1.0 Flexible                                                                                                          |        |

## 12. EXPLODED VIEW & REPLACEMENT PART LIST

| Level | LocationNo.    | Description                      | PartNumber  | Spec                                                                                                     | Remark |
|-------|----------------|----------------------------------|-------------|----------------------------------------------------------------------------------------------------------|--------|
| 5     | EBR070400      | PCB Assembly Flexible,SMT        | EBR75099901 | LGP700.AFRABK 1.0 Flexible                                                                               |        |
| 6     | EAX010700      | PCB,Flexible                     | EAX64658101 | LGP700.AFRABK 1.0 POLYI SBL 4 0.3 Flexible                                                               |        |
| 6     | EBR070300      | PCB Assembly Flexible,SMT Top    | EBR75100001 | LGP700.AFRABK 1.0 Flexible                                                                               |        |
| 7     | SUMY00         | Microphone Condenser             | SUMY0010616 | SUMY0010616 FPCB,dB,1.1TO10V, KNOWLES ACOUSTICS                                                          |        |
| 6     | EBR070200      | PCB Assembly Flexible,SMT Bottom | EBR75035701 | LGP700.AFRABK 1.0 Flexible                                                                               |        |
| 7     | C574           | Capacitor Ceramic,Chip           | ECZH0000813 | C1005C0G1H101JT 100pF 5% 50V C0G - 55TO+125C 1005 R/TP - TDK KOREA COOPERATION                           |        |
| 7     | C1074 C801     | Capacitor Ceramic,Chip           | ECZH0000802 | C1005C0G1H010CT 1pF 0.25PF 50V NP0 - 55TO+125C 1005 R/TP - TDK KOREA COOPERATION                         |        |
| 7     | C1068          | Capacitor Ceramic,Chip           | ECCH0000112 | MCH155C150J 15pF 5% 50V NP0 -55TO+125C 1005 R/TP - ROHM Semiconductor KOREA CORPORATION                  |        |
| 7     | R804           | Diode,TVS                        | EAH61693001 | uClamp0541Z 5V 6V min 12V 2A 30W SLP0603P2X3 R/TP 2P 1 SEMTECH INTERNATIONAL AG                          |        |
| 7     | D803 D804      | Diode,TVS                        | EAH61533301 | RCLAMP0521PA.TCT 5V 6V min. / 9.3V typ. / 11V max. 15V 4A - SLP1006P2 R/TP 2P 1 SEMTECH INTERNATIONAL AG |        |
| 7     | LD800 LD801    | LED,Chip                         | EDLH0015202 | 99-216UTC/TR8-1 WHITE 2.95~3.3 30mA 1440~1720mcd x, y 110mW - R/TP 2P - EVERLIGHT ELECTRONICS CO., LTD.  |        |
| 7     | KB800          | Switch,Tact                      | ESCY0008701 | SKRWAME030 1C1P 12VDC 0.05A HORIZONTAL 1.57GF R/TP-T - ALPS ELECTRIC CO.,LTD.                            |        |
| 7     | R101 R103 R104 | Resistor,Chip                    | ERHZ0000285 | MCR01MZP5F4700 470OHM 1% 1/16W 1005 R/TP - ROHM.                                                         |        |
| 7     | D800 D801 D802 | Diode,TVS                        | EDTY0008606 | PRSB6.8C 4.7V 5.7 11.5V 1A 10W DFN-2 R/TP 2P 1 PROTEK DEVICES INC.                                       |        |

## 12. EXPLODED VIEW & REPLACEMENT PART LIST

| Level | LocationNo.    | Description                 | PartNumber  | Spec                                                                                                                    | Remark |
|-------|----------------|-----------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------|--------|
| 7     | ZD801<br>ZD802 | Diode,TVS                   | EDTY0012501 | UCLAMP3311T.TCT 3.3V 3.5V min. 6.5V 5A -<br>SLP1006P2T R/TP 2P 1 SEMTECH<br>CORPORATION                                 |        |
| 7     | C803           | Inductor<br>Multilayer,Chip | ELCH0001052 | 1005GC2T18NJLF 18NH 5% - 200mA 0.65OHM<br>1.6GHZ 8 SHIELD NONE 1.0X0.5X0.5MM R/TP<br>PILKOR ELECTRONICS LTD.            |        |
| 7     | R802<br>R803   | Resistor,Chip               | ERHY0008207 | RC1005F470CS 47OHM 1% 1/16W 1005 R/TP -<br>SAMSUNG ELECTRO-MECHANICS CO., LTD.                                          |        |
| 7     | FB710          | Filter,Bead                 | SFBH0008102 | BLM15HD182SN1D 1800 ohm 1.0X0.5X0.5 25%<br>2.2 ohm 0.2A SMD R/TP 2P 0 MURATA<br>MANUFACTURING CO.,LTD.                  |        |
| 7     | FL601          | Filter,EMI/Power            | SFEY0016301 | ICMEF112P900M COMMON MODE NOISE<br>FILTER 0HZ 0F 0H SMD R/TP INNOCHIPS<br>TECHNOLOGY                                    |        |
| 7     | C708<br>C709   | Capacitor<br>Ceramic,Chip   | ECCH0000143 | MCH155CN102KK 1nF 10% 50V X7R -55TO+125C<br>1005 R/TP - ROHM Semiconductor KOREA<br>CORPORATION                         |        |
| 7     | CN801          | Connector,I/O               | EAG63090001 | 04-5161-005-100-868 7P 0.90MM ANGLE<br>RECEPTACLE DIP R/TP Normal New IO Connector<br>KYOCERA ELCO KOREA SALES CO.,LTD. |        |
| 7     | BAT500         | Capacitor<br>Assembly       | SMZY0023501 | PAS311HR-VG1 3.8 Backup Capacitor<br>0.03F,Module Assembly, KOREA TAIYO<br>YUDEN.CO., LTD.                              |        |
| 7     | C706<br>C707   | Capacitor<br>Ceramic,Chip   | ECCH0017301 | CL03A105MQ3CSNH 0.000001F 20% 6.3V X5R -<br>45TO+85C 0603 R/TP - SAMSUNG ELECTRO-<br>MECHANICS CO., LTD.                |        |
| 7     | SW800          | Connector,RF                | ENWY0005601 | 20369-001E NONE STRAIGHT SOCKET SMD<br>R/TP AU 50OHM 400mDB I-PEX CO., LTD                                              |        |

## 12. EXPLODED VIEW & REPLACEMENT PART LIST

| Level | LocationNo.                                                                                                                                                                          | Description                  | PartNumber  | Spec                                                                                                   | Remark |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------------|--------------------------------------------------------------------------------------------------------|--------|
| 7     | C503<br>C508<br>C520<br>C530<br>C531<br>C536<br>C537<br>C538<br>C539<br>C540<br>C541<br>C542<br>C543<br>C544<br>C545<br>C546<br>C547<br>C548<br>C559<br>C565<br>C566<br>C567<br>C726 | Capacitor<br>Ceramic,Chip    | ECZH0001215 | C1005X5R1A105KT000F 1uF 10% 10V X5R -<br>55TO+85C 1005 R/TP - TDK KOREA<br>COOPERATION                 |        |
| 7     | CN802                                                                                                                                                                                | Connector,BtoB               | ENBY0056801 | 14-5804-024-000-829+ 24P 0.40MM STRAIGHT<br>MALE SMD R/TP 900mM - KYOCERA ELCO<br>KOREA SALES CO.,LTD. |        |
| 7     | ZD800                                                                                                                                                                                | Diode,TVS                    | EDTY0008602 | PSD12-LF 12V 13.3 25.9V 21A 500W SOD323<br>R/TP 2P 1 PROTEK DEVICES INC.                               |        |
| 7     | FL800                                                                                                                                                                                | Filter,EMI/Power             | SFEY0015301 | NFM18PC104R1C3 ESD/EMI 0HZ 0.1uF 0H SMD<br>R/TP MURATA MANUFACTURING CO.,LTD.                          |        |
| 7     | C573                                                                                                                                                                                 | Capacitor<br>Ceramic,Chip    | ECCH0000115 | MCH155A220JK 22pF 5% 50V NP0 -55TO+125C<br>1005 R/TP - ROHM Semiconductor KOREA<br>CORPORATION         |        |
| 7     | R526                                                                                                                                                                                 | Resistor,Chip                | ERHY0009504 | MCR006YZPJ102 1KOHM 5% 1/20W 0603 R/TP -<br>ROHM.                                                      |        |
| 7     | VA100<br>VA101<br>VA102                                                                                                                                                              | Varistor                     | SEVY0003601 | ICVL0505101V150FR 5.6V 0% 100pF 1.0*0.5*0.55<br>NONE SMD R/TP INNOCHIPS TECHNOLOGY                     |        |
| 4     | EBR01                                                                                                                                                                                | PCB Assembly<br>Flexible     | EBR75099401 | LGP700.AFRABK 1.0 Flexible                                                                             |        |
| 5     | EBR070400                                                                                                                                                                            | PCB Assembly<br>Flexible,SMT | EBR75099501 | LGP700.AFRABK 1.0 Flexible                                                                             |        |

## 12. EXPLODED VIEW & REPLACEMENT PART LIST

| Level | LocationNo.                                                                                 | Description                            | PartNumber  | Spec                                                                                                     | Remark |
|-------|---------------------------------------------------------------------------------------------|----------------------------------------|-------------|----------------------------------------------------------------------------------------------------------|--------|
| 6     | EAX010700                                                                                   | PCB,Flexible                           | EAX64667901 | LGP700.AFRABK 1.1 FR-4 SBL 4 0.4 Flexible                                                                |        |
| 6     | EBR070300                                                                                   | PCB Assembly<br>Flexible,SMT Top       | EBR75099601 | LGP700.AFRABK 1.0 Flexible                                                                               |        |
| 7     | ZD600                                                                                       | Diode,TVS                              | EDTY0012101 | PESD5V0F1BL 5.5V 6V min 11V 2.5A - SOD-882<br>R/TP 2P 1 STC CORP.                                        |        |
| 7     | D800<br>D801<br>D802                                                                        | Diode,TVS                              | EDTY0008606 | PRSB6.8C 4.7V 5.7 11.5V 1A 10W DFN-2 R/TP 2P<br>1 PROTEK DEVICES INC.                                    |        |
| 6     | EBR070200                                                                                   | PCB Assembly<br>Flexible,SMT<br>Bottom | EBR75099701 | LGP700.AFRABK 1.0 Flexible                                                                               |        |
| 7     | C1002<br>C1003<br>C1061<br>C1076<br>C1077<br>C1078<br>C1079<br>C833<br>C847<br>C848<br>C851 | Capacitor<br>Ceramic,Chip              | ECCH0009103 | C0603C0G1H101JT00NN 100pF 5% 50V C0G -<br>55TO+125C 0603 R/TP - TDK CORPORATION                          |        |
| 7     | C912<br>C913                                                                                | Capacitor<br>Ceramic,Chip              | ECCH0009228 | GRM033R61A472K 4700pF 10% 10V X5R -<br>55TO+85C 0603 R/TP - MURATA<br>MANUFACTURING CO.,LTD.             |        |
| 7     | CN903                                                                                       | Connector,BtoB                         | ENBY0051001 | GB042-10S-H10-E3000 10P 0.4MM STRAIGHT<br>FEMALE SMD R/TP 1M - LS Mtron Ltd.                             |        |
| 7     | FB710                                                                                       | Filter,Bead                            | SFBH0008102 | BLM15HD182SN1D 1800 ohm 1.0X0.5X0.5 25%<br>2.2 ohm 0.2A SMD R/TP 2P 0 MURATA<br>MANUFACTURING CO.,LTD.   |        |
| 7     | C706<br>C707                                                                                | Capacitor<br>Ceramic,Chip              | ECCH0017301 | CL03A105MQ3CSNH 0.000001F 20% 6.3V X5R -<br>45TO+85C 0603 R/TP - SAMSUNG ELECTRO-<br>MECHANICS CO., LTD. |        |
| 7     | FL601                                                                                       | Filter,EMI/Power                       | SFEY0016301 | ICMEF112P900M COMMON MODE NOISE<br>FILTER 0HZ 0F 0H SMD R/TP INNOCHIPS<br>TECHNOLOGY                     |        |
| 7     | ZD801<br>ZD802                                                                              | Diode,TVS                              | EDTY0012501 | UCLAMP3311T.TCT 3.3V 3.5V min. 6.5V 5A -<br>SLP1006P2T R/TP 2P 1 SEMTECH<br>CORPORATION                  |        |

## 12. EXPLODED VIEW & REPLACEMENT PART LIST

| Level | LocationNo.                                                                                         | Description               | PartNumber  | Spec                                                                                                                           | Remark |
|-------|-----------------------------------------------------------------------------------------------------|---------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------|--------|
| 7     | J900                                                                                                | Jack,Phone                | EAG63070601 | KJA-PH-4-0176 5P 2P ANGLE R/TP 3.5M BLACK<br>5P - KSD CO., LTD                                                                 |        |
| 7     | VA100<br>VA101<br>VA102                                                                             | Varistor                  | SEVY0003601 | ICVL0505101V150FR 5.6V 0% 100pF 1.0*0.5*0.55<br>NONE SMD R/TP INNOCHIPS TECHNOLOGY                                             |        |
| 7     | C1017<br>C1029<br>C1036<br>C1038<br>C1041<br>C1048<br>C1055<br>C604<br>C606<br>C805<br>C806<br>C827 | Capacitor<br>Ceramic,Chip | ECCH0017601 | CL05A475MQ5NRNC 4.7uF 20% 6.3V X5R -<br>55TO+85C 1005 R/TP 0.5MM SAMSUNG<br>ELECTRO-MECHANICS CO., LTD.                        |        |
| 7     | U900                                                                                                | IC,Proximity              | EUSY0376201 | GP2AP002S00F GP2AP002S00F<br>GP2AP002S00F,,8 ,R/TP , SHARP<br>CORPORATION. SHARP CORPORATION.                                  |        |
| 7     | CN603                                                                                               | Connector,BtoB            | ENBY0034201 | GB042-24S-H10-E3000 24P 0.40MM STRAIGHT<br>SOCKET SMD R/TP 1M - LS Mtron Ltd.                                                  |        |
| 7     | R804                                                                                                | Diode,TVS                 | EAH61693001 | uClamp0541Z 5V 6V min 12V 2A 30W<br>SLP0603P2X3 R/TP 2P 1 SEMTECH<br>INTERNATIONAL AG                                          |        |
| 7     | C214<br>C224                                                                                        | Capacitor<br>Ceramic,Chip | ECZH0025920 | GRM033R71C102K 1nF 10% 16V X7R -<br>55TO+125C 0603 R/TP - MURATA<br>MANUFACTURING CO.,LTD.                                     |        |
| 7     | FL600                                                                                               | Filter,EMI/Power          | SFEY0015901 | ICMEF214P101MFR ICMEF214P101MFR<br>ICMEF214P101MFR,SMD ,ESD Common mode<br>Filter INNOCHIPS TECHNOLOGY INNOCHIPS<br>TECHNOLOGY |        |
| 7     | R204                                                                                                | Resistor,Chip             | ERHZ0000206 | MCR01MZP5F10R0 100HM 1% 1/16W 1005 R/TP<br>- ROHM.                                                                             |        |
| 7     | CN902                                                                                               | Connector,BtoB            | ENBY0039601 | GB042-20S-H10-E3000 20P 0.4MM STRAIGHT<br>SOCKET SMD R/TP 1M - LS Mtron Ltd.                                                   |        |
| 7     | EAB01                                                                                               | Microphone<br>Condenser   | EAB62429201 | SO8OT423-09 -42DB 100OHM OMNI 1.5 TO 3.6V<br>3.76x2.95x1.1 SMD GoerTek Inc.                                                    |        |

## 12. EXPLODED VIEW & REPLACEMENT PART LIST

| Level | LocationNo.                                                          | Description                 | PartNumber  | Spec                                                                                                                                                          | Remark |
|-------|----------------------------------------------------------------------|-----------------------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 7     | CN904                                                                | Connector,BtoB              | ENBY0042601 | GB042-54P-H10 54P 0.40MM STRAIGHT MALE<br>SMD R/TP 1M - LS Mtron Ltd.                                                                                         |        |
| 7     | R908                                                                 | Resistor,Chip               | ERHZ0000488 | MCR01MZP5J4R7 4.7OHM 5% 1/16W 1005 R/TP -<br>ROHM.                                                                                                            |        |
| 7     | L900                                                                 | Inductor<br>Multilayer,Chip | ELCH0001444 | 0402AF-101XJEW 100NH 5% - 900mA 0.16OHM<br>1.4GHZ 8 NON SHIELD NONE 1.12X0.66X0.66MM<br>R/TP COILCRAFT SINGAPORE PTE LTD.                                     |        |
| 7     | R1011<br>R1012                                                       | Resistor,Chip               | ERHY0009503 | MCR006YZPJ101 100OHM 5% 1/20W 0603 R/TP -<br>ROHM.                                                                                                            |        |
| 7     | C201<br>C208<br>C209<br>C210<br>C211<br>C212<br>C213<br>C220<br>C221 | Capacitor<br>Ceramic,Chip   | ECCH0009101 | C0603X5R0J104KT00NN 0.1uF 10% 6.3V X5R -<br>55TO+85C 0603 R/TP - TDK CORPORATION                                                                              |        |
| 4     | SJMY00                                                               | Motor,DC                    | SJMY0007108 | WHVM-1030B10 WHVM-1030B10 WHVM-<br>1030B10,3 V,80 mA,10*3.0 ,12mm SEOUNGHYUN<br>SMT SEOUNGHYUN SMT                                                            |        |
| 4     | EBP01                                                                | Camera Module               | EBP61582101 | C5AA-H429A C5AA-H429A 5M AF, Hynix(1/4") CIS,<br>8.5x8.5x4.95t, MIPI, 0deg, FPCB LG INNOTEK<br>CO., LTD                                                       |        |
| 4     | EBP00                                                                | Camera Module               | EBP61561901 | CW0361 CW0361 VGA Aptina 1/11" MIPI, FPCB<br>5mm, 0deg. COWELL ELECTRONICS CO.,LTD                                                                            |        |
| 4     | EBD00                                                                | Touch Window<br>Assembly    | EBD61346201 | TSMC-G434A CAPACITIVE TOUCH GFF Melfas<br>MMS136 4.3" B to B White color LG<br>INNOTEK.,LTD.                                                                  |        |
| 4     | EAJ00                                                                | LCD,Module-TFT              | EAJ62069801 | LH430WV1-SD04 WVGA 4.3INCH 800X480 450CD<br>COLOR 70% 15/9 800:1 60Hz Inverter N LED<br>3D(Non-Glasses) - LG Display Co. Ltd.                                 |        |
| 4     | EAB00                                                                | Receiver                    | EAB62491301 | KR-1207-WB1P 30mW 32OHM 106DB<br>300HZTO7KHZ WIRE dualize EM tech RCV<br>1207x2.7T wideband RCV SURY0015202 , SPL<br>improvement 106dB KIRYN TELECOM CO., LTD |        |

## 12. EXPLODED VIEW & REPLACEMENT PART LIST

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| Level | LocationNo. | Description    | PartNumber  | Spec                                                                        | Remark |
|-------|-------------|----------------|-------------|-----------------------------------------------------------------------------|--------|
| 4     | EAD00       | Cable,Assembly | EAD62064601 | 80421-202B-92L-01 UFL-LP-066 UFL-LP-066<br>0.09M 2 BLACK N N I-PEX CO., LTD |        |

## 12. EXPLODED VIEW & REPLACEMENT PART LIST

### 12.3 Accessory

**Note:** This Chapter is used for reference, Part order is ordered by SBOM standard on GCSC

| Level | LocationNo. | Description                         | PartNumber  | Spec                                                                                                                      | Remark |
|-------|-------------|-------------------------------------|-------------|---------------------------------------------------------------------------------------------------------------------------|--------|
| 2     | EAC00       | Rechargeable Battery<br>Lithium Ion | EAC61839001 | BL-44JH_LGC_UPPER PRISMATIC 3.8V 1.65AH<br>330mAh 61.0x44.0x4.4 65.0x44.0x4.8Max BLACK<br>Top cap Assembly - LG Chem,LTD. |        |
| 2     | MFL053800   | Manual,Operation                    | MFL67528301 | PRINTING LGP705.ACISWH ZZ:Without Color<br>Web manual for LGP705 CIS                                                      |        |
| 3     | MBM062600   | Card,Quick Reference                | MBM63736701 | PRINTING LGP705.ACISBK ZZ:Without Color<br>Simple manual for LGP705 CIS                                                   |        |
| 3     | MBM087200   | Card,Warranty                       | MCDF0011303 | COMPLEX GD350 CISBK ZZ:Without Color -                                                                                    |        |
| 2     | EAY060000   | Adapters                            | SSAD0038301 | 100-240V,5060 Hz,5.1 V,700 mA,CE,AC-DC<br>Adaptor,90Vac~264Vac,5.1V,700mA,5060,WALL<br>2P,USB,                            |        |
| 2     | EBX000000   | Accessory,Data Cable                | SGDY0016701 | KCA-ET-8-0020 KCA-ET-8-0020 Micro USB, 1.2M<br>KSD CO., LTD                                                               |        |