

# Technology Document

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After-sales Service Manual (Level 1)

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Approved    \_\_\_\_\_

**ZTE CORPORATION**

## Modification Record

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## 1. Product Summarize

### 1.1 Standard Installation

| Serial No. | Name                              | Quantity |
|------------|-----------------------------------|----------|
| 1          | Handset                           | 1        |
| 2          | Lithium Battery                   | 1        |
| 3          | Charger                           | 1        |
| 4          | Earphone                          | 1        |
| 5          | USB Standard Universal Data Cable | 1        |

### 1.2 Specification

- ◆ Frequency Scale (MHz): UMT2100, GSM/GPRS/EDGE 900/1800/1900
- ◆ Dimension (high\*width\*ply ): 93mm×47mm×17mm
- ◆ Ring Tone: 72 polyphone tones
- ◆ LCD: Inner LCD: TFT 176x220 2.0 inch  
Outer LCD: CSTN 96x64 1.0 inch
- ◆ Camera: 1.3M pixel rotatable
- ◆ Battery: 830mAh
- ◆ Talk Time: 190min
- ◆ Video Call: 210min
- ◆ Standby Time: 180h
- ◆ Network Speed: 384Kbps DL; 384Kbps UL



### 1.3 Function

- ◆ Video Call
- ◆ Multi-media Play
- ◆ 180° Rotatable Camera

- ◆ Download Java Program
- ◆ MMS
- ◆ WAP
- ◆ Support T-Flash
- ◆ Support Bluetooth

## 1.4 Inner Type

| Inner Type | Outer Type |
|------------|------------|
| P617B1     | F230       |

## 2. Inner Structure and Elements

### 2.1 Function Test

#### Simple function test:

- ◆ Input \*983\*0#, then enter test mode. Function automatic test includes: LCD→motor→ring→keyboard→camera→audio circuit
- ◆ LCD Test: LCD will appear red, green and blue colors.
- ◆ Motor Test: check the motor if it and its intensity is normal.
- ◆ Ring Test: The volume of the ring should be normal, strange voice or abnormal volume is not allowed.
- ◆ Keyboard Check: Check each individual key to guarantee the correct character can be shown. Take care about the feeling of touch, and you should feel the difference for switch of keys, and you should press the keys same.
- ◆ Camera Test: the picture appears normally and clearly.
- ◆ Audio circuit Test: puff towards MIC to hear “Shasha” from the telephone receiver.

#### Software version test:

- ◆ Input \*983\*837#. Ensure that handset version is the highest version.

### 2.2 Software Download

- ◆ **Software download illumination**  
Each handset to be repaired should be upgraded to the latest version, and each repaired handset should be in the latest version.
- ◆ **Note: the handset can be switched on normally.**
- ◆ **Download Data Cable**

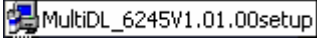
8pin USB standard universal data cable (code: 052621600208)



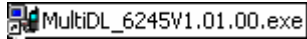
◆ **Download cable driver**

USB driver

◆ **Install the download platform**

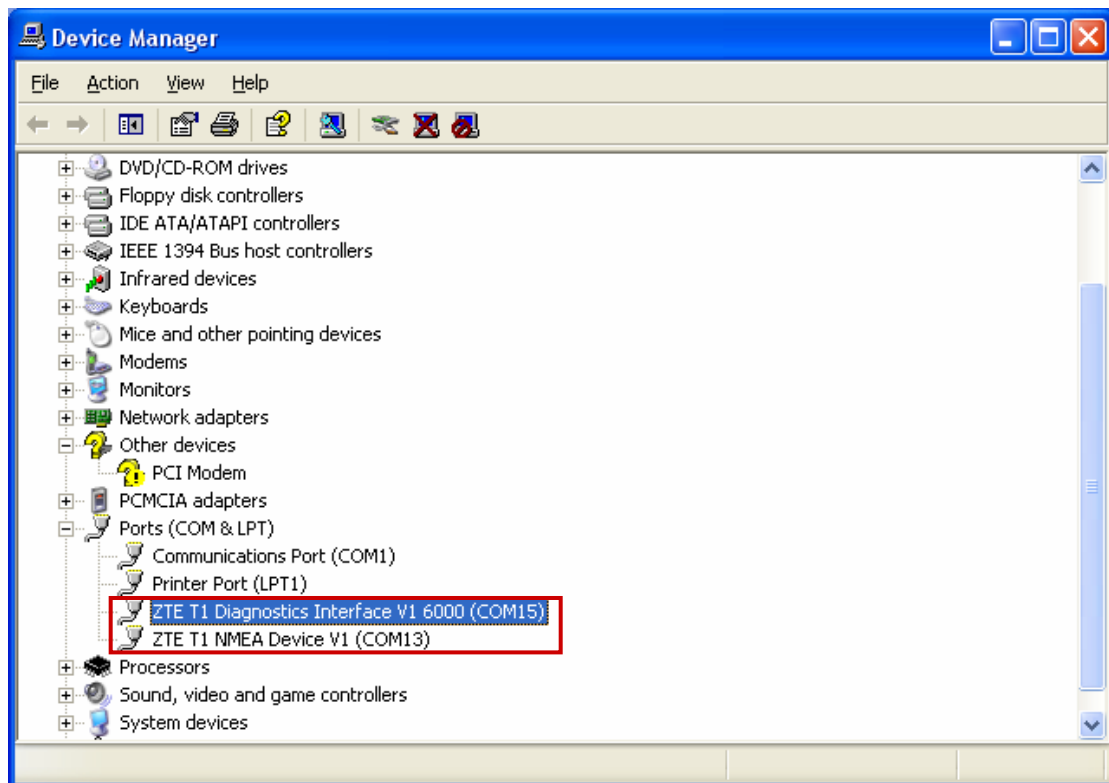
MultiDL\_6245V1.01.00setup 

◆ **After installing successfully, click the icon twice.**

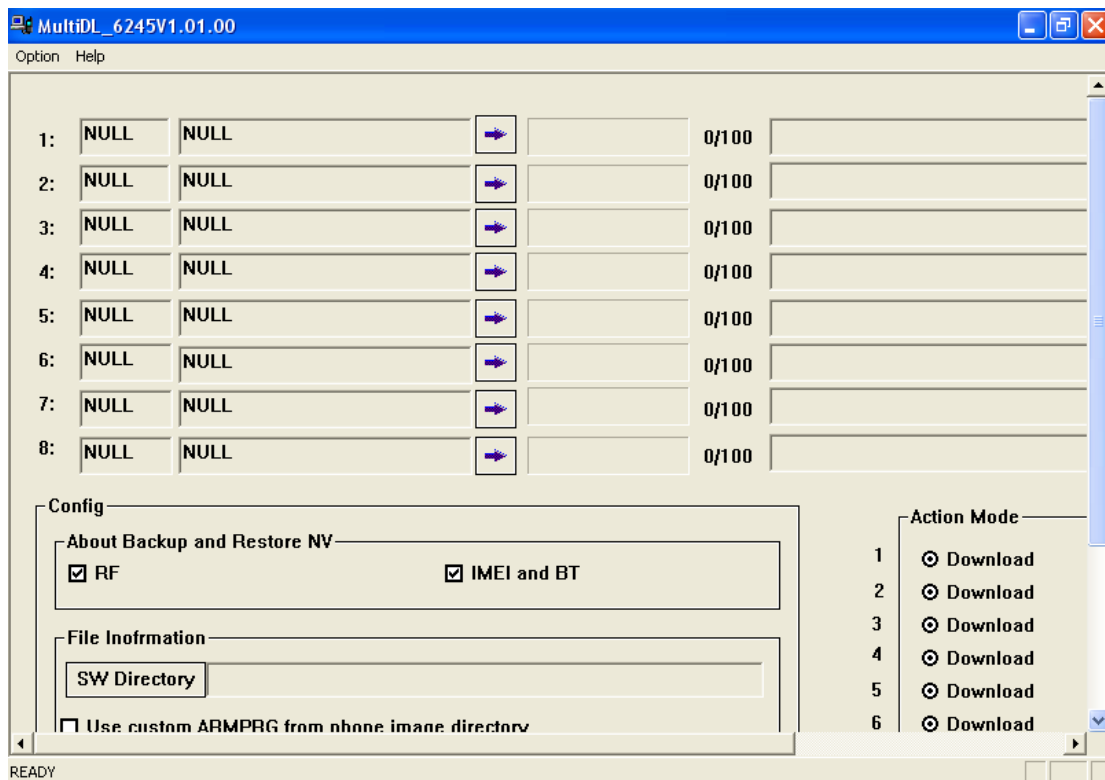


◆ **Check the serial port after connecting to the data cable.**

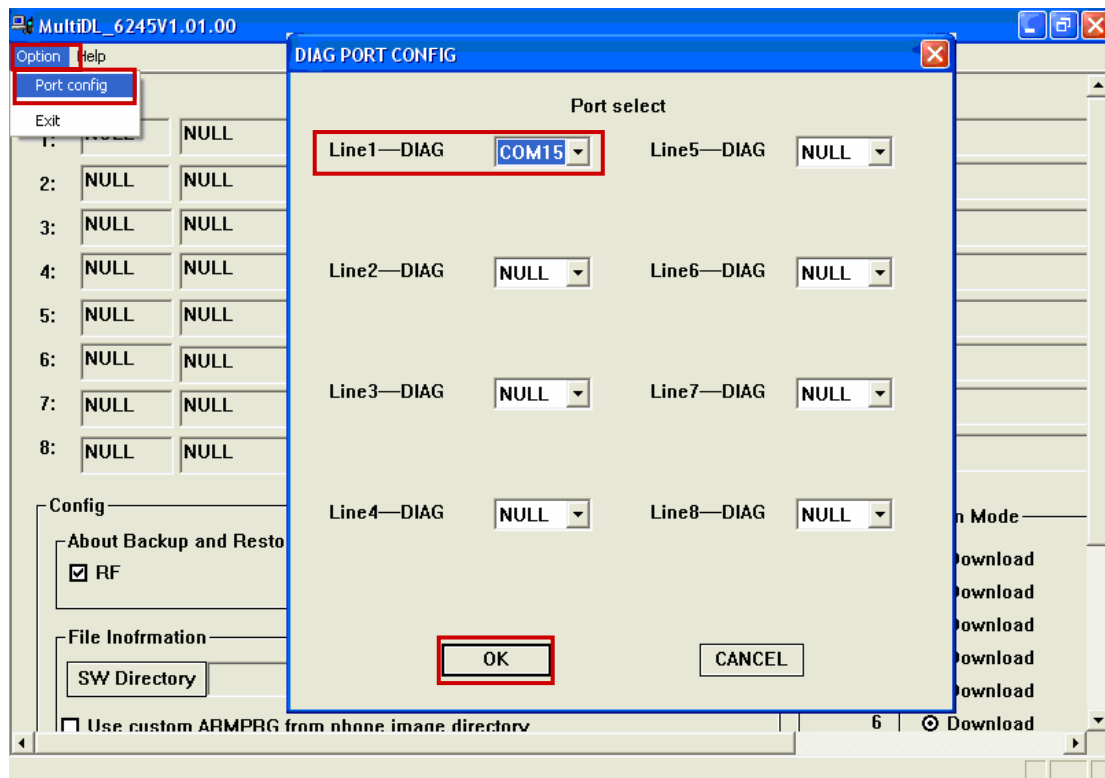
Checking path: my computer→attribute→hardware→facility manager→port



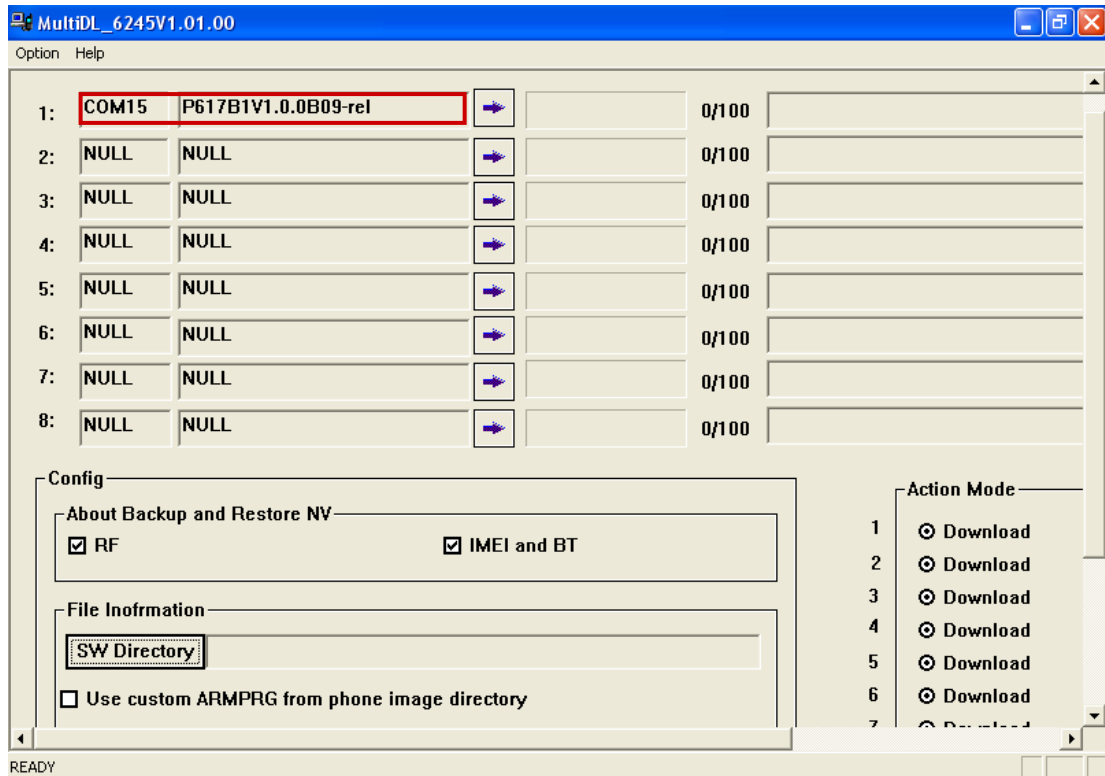
◆ **The main interface is as follow:**



◆ Click 'Option'→ 'Port config'. Set correct port. Click OK.

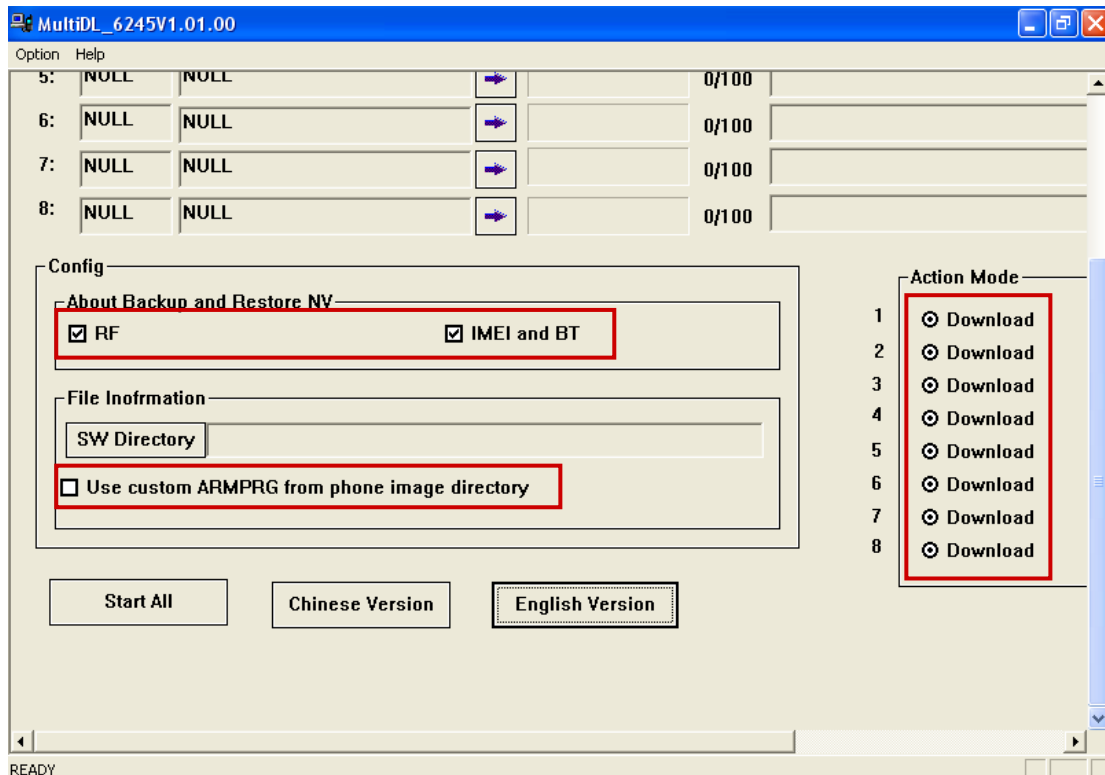


◆ After port setting successfully, port will read the version information automatically.

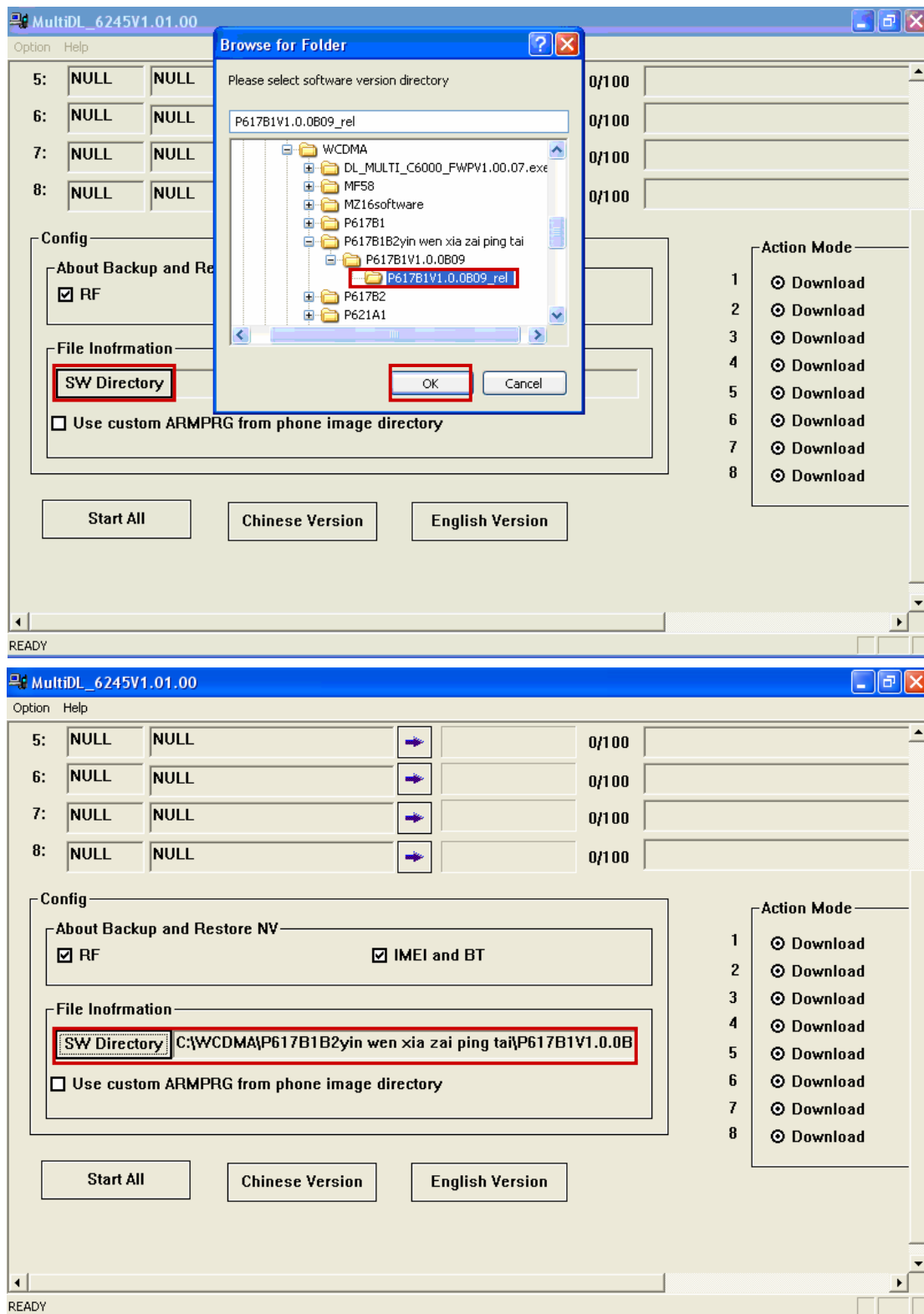


◆ Select 'RF'. Select 'IMEI and BT'.

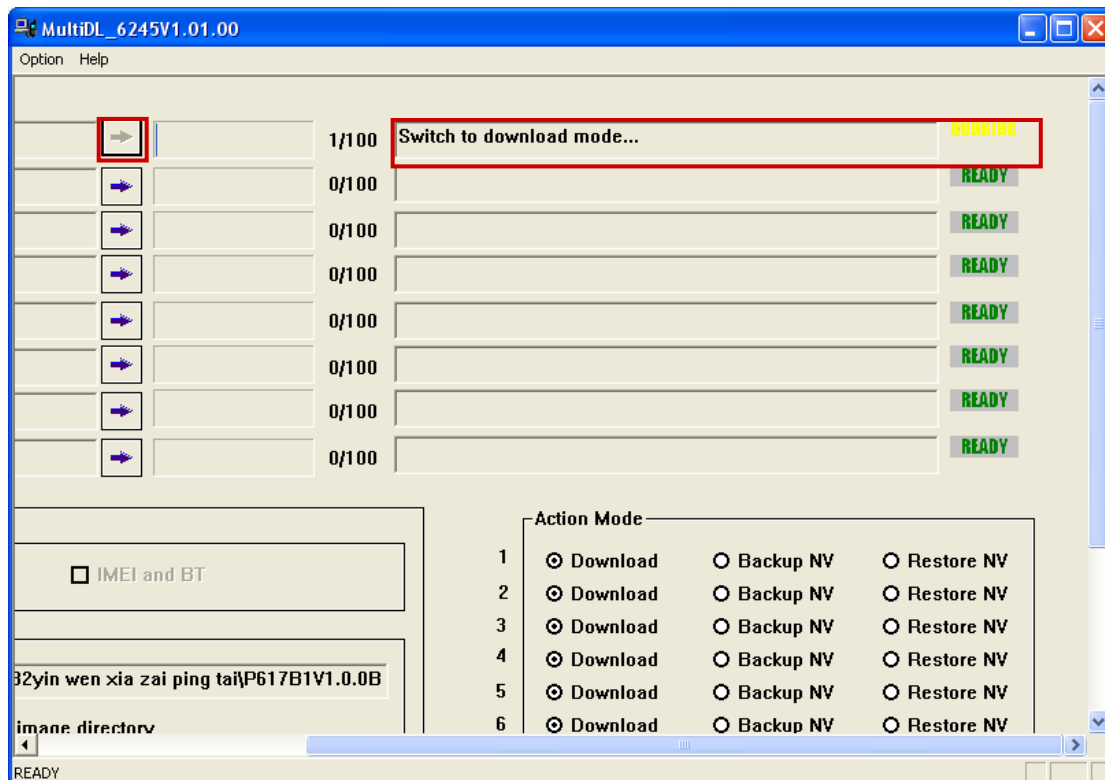
◆ **Note: don't select 'Use custom ARMPRG from phone image directory'.**



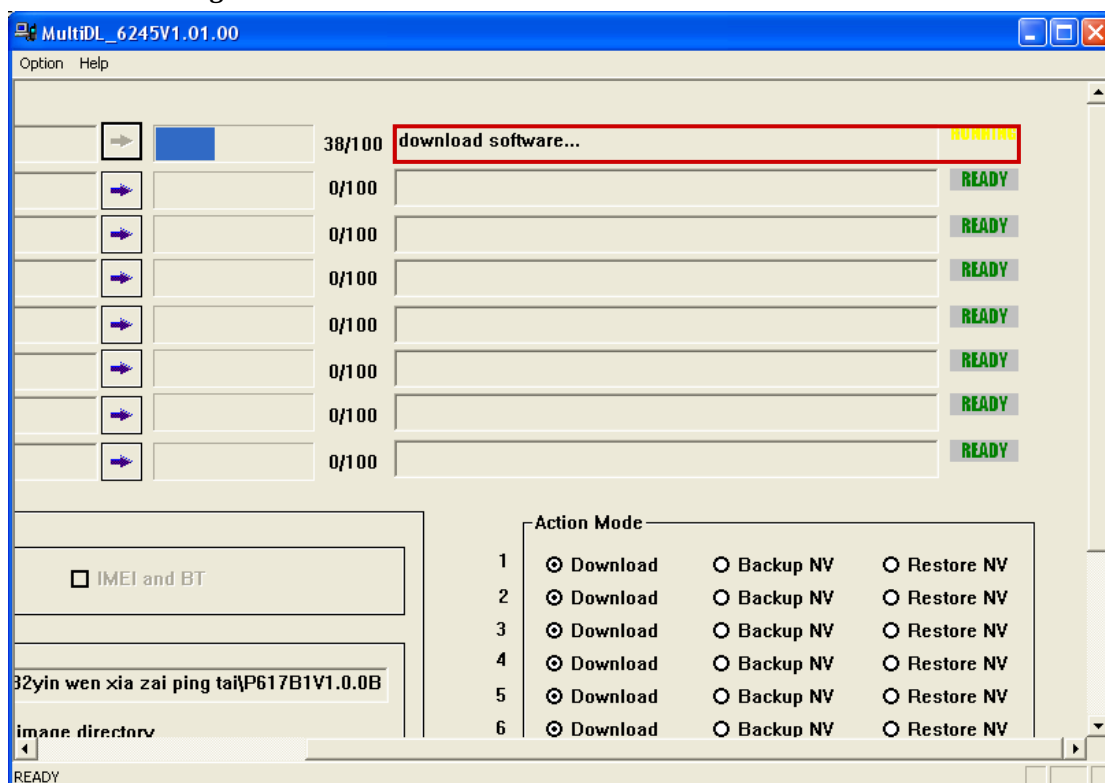
◆ Click 'SW Directory' → select correct version → click OK.



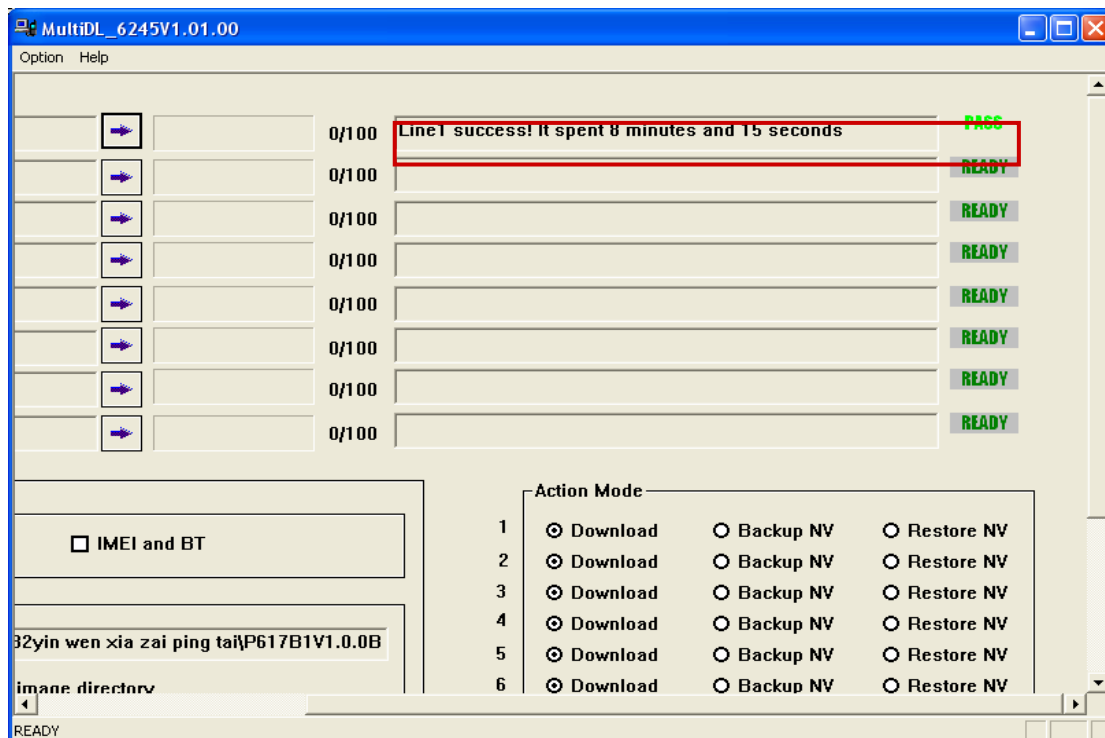
◆ Click the button and then start to download.



◆ Downloading.



◆ Finish.

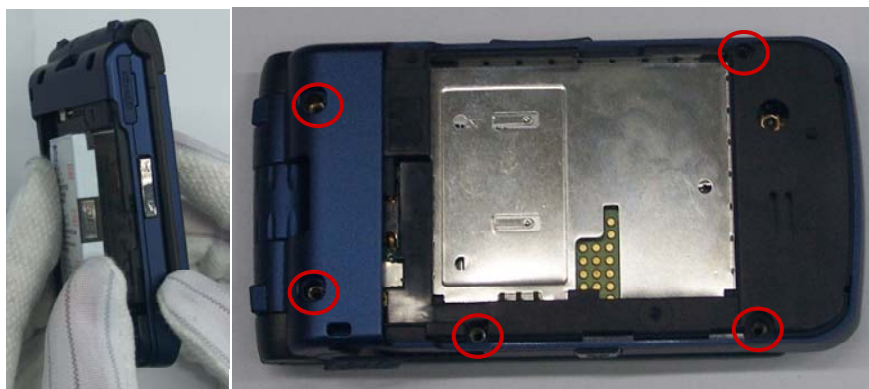


## 2.3 Disassembly Flow



Tools (From left to right):  
 Anti-electrostatic glove  
 Anti-electrostatic wrist  
 Screwdriver  
 Tweezers  
 Dismantle ring tool  
 Knife

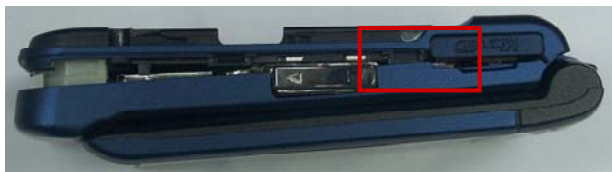
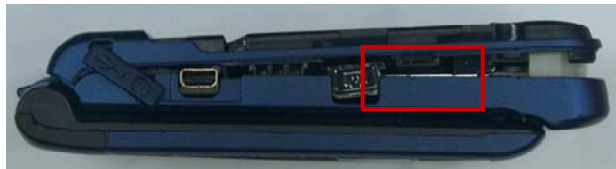
- ◆ Take out the battery.
- ◆ Pay attention to five screws.



- ◆ Separate the up back cover and the down back cover with a gap by knife.



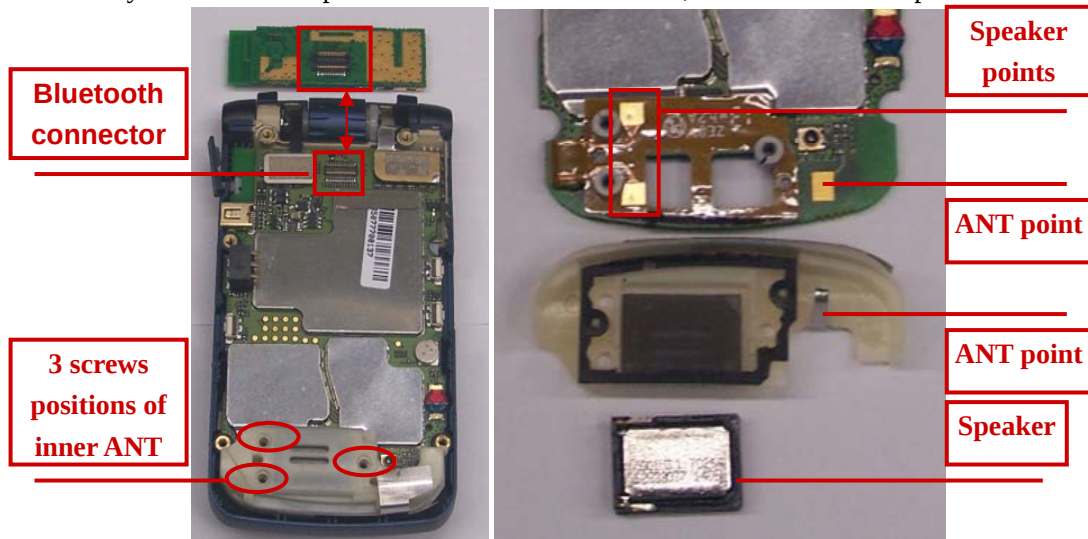
- ◆ Separate the down back cover with dismantle rind tool. Pay attention to the positions of side keys and the locks.



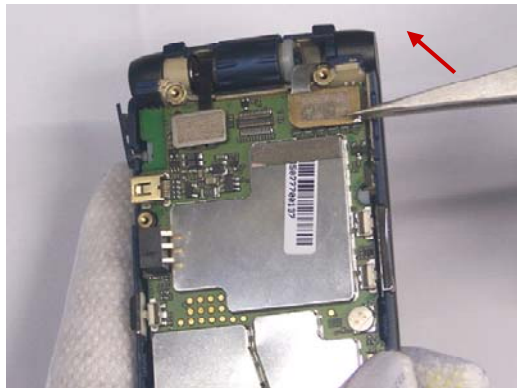
- ◆ The down back cover after separating. Take out the bluetooth with tweezers.



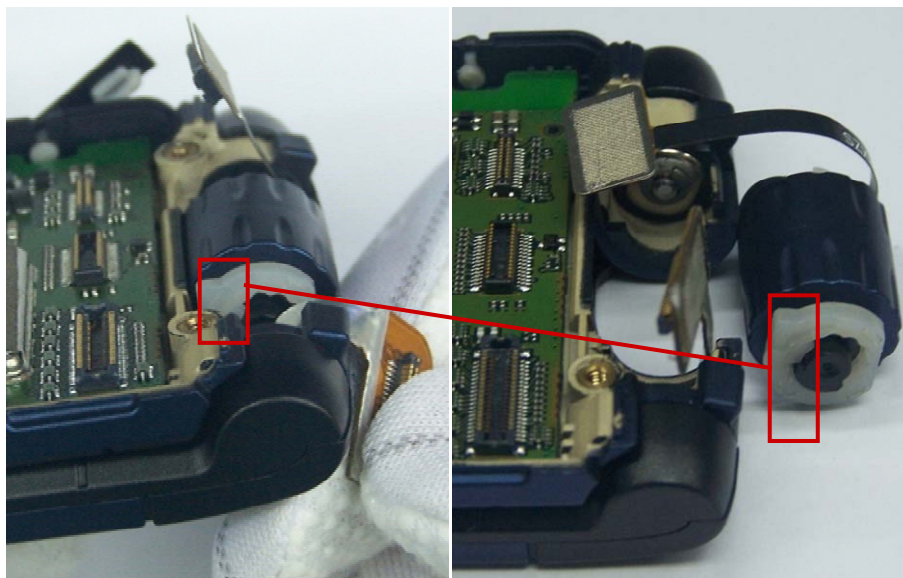
- ◆ Pay attention to the positions of bluetooth connector, inner antenna and speaker.



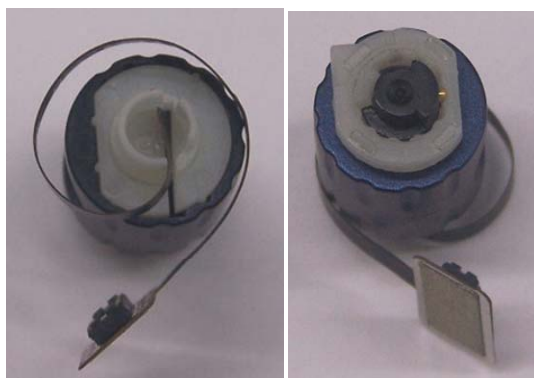
- ◆ Take out FPC with tweezers.



- ◆ Pay attention to the correct fixing method of camera. The long side faces to inside.



- ◆ The camera two side.



- ◆ The keypad, side key, camera and front cover after separating.



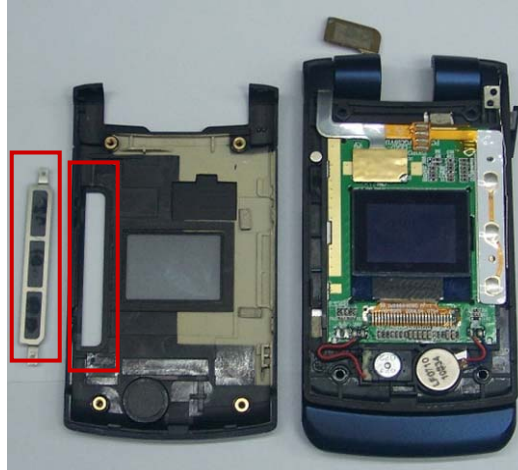
- ◆ Pay attention to the positions of four screws.



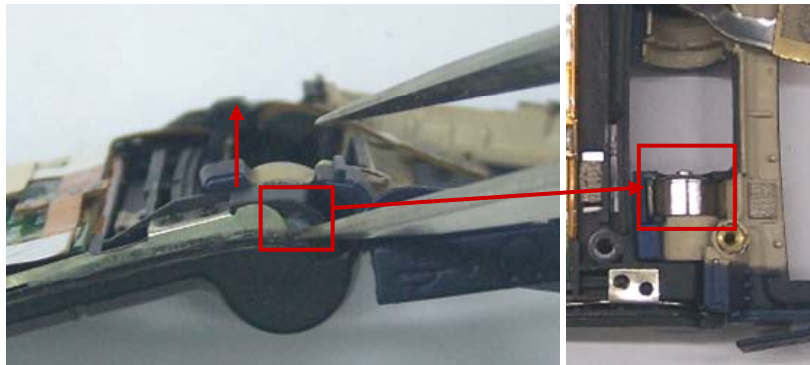
- ◆ Separate the up back cover and the down back cover with a gap by knife. Separate the down back cover with dismantle rind tool. Pay attention to the positions of side keys and the locks.



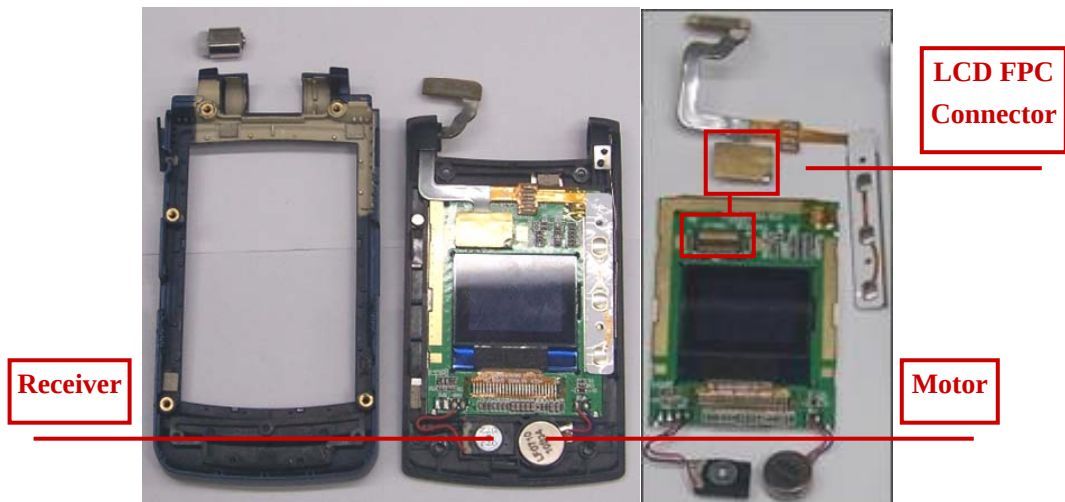
- ◆ The up front cover after separating. Pay attention to the position of fixing side key.



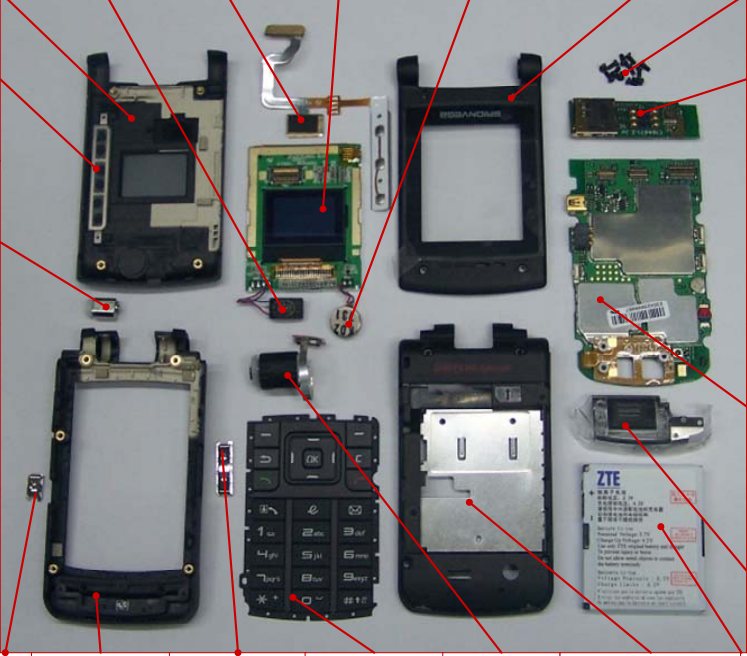
- ◆ Separate the up and down front covers with tweezers.



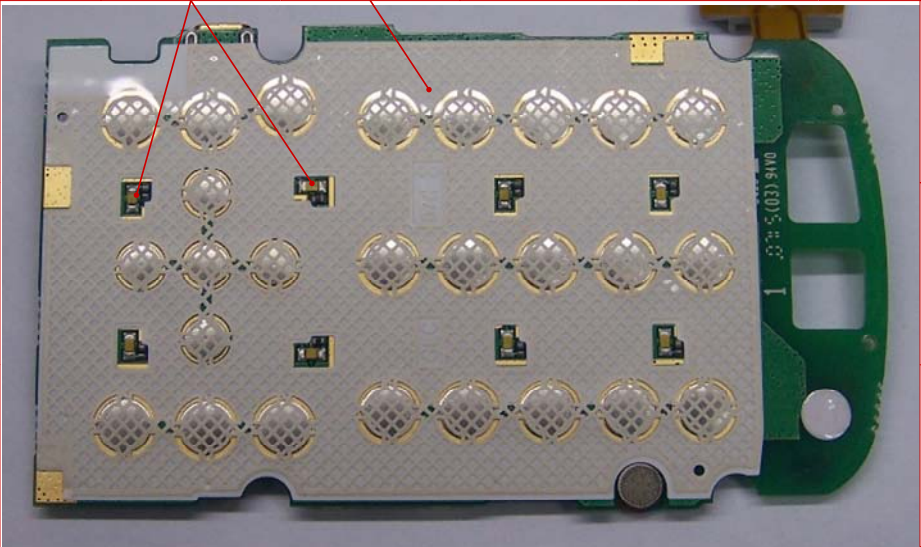
- ◆ The up and down front covers after separating. Pay attention to fix speaker and receiver correctly.

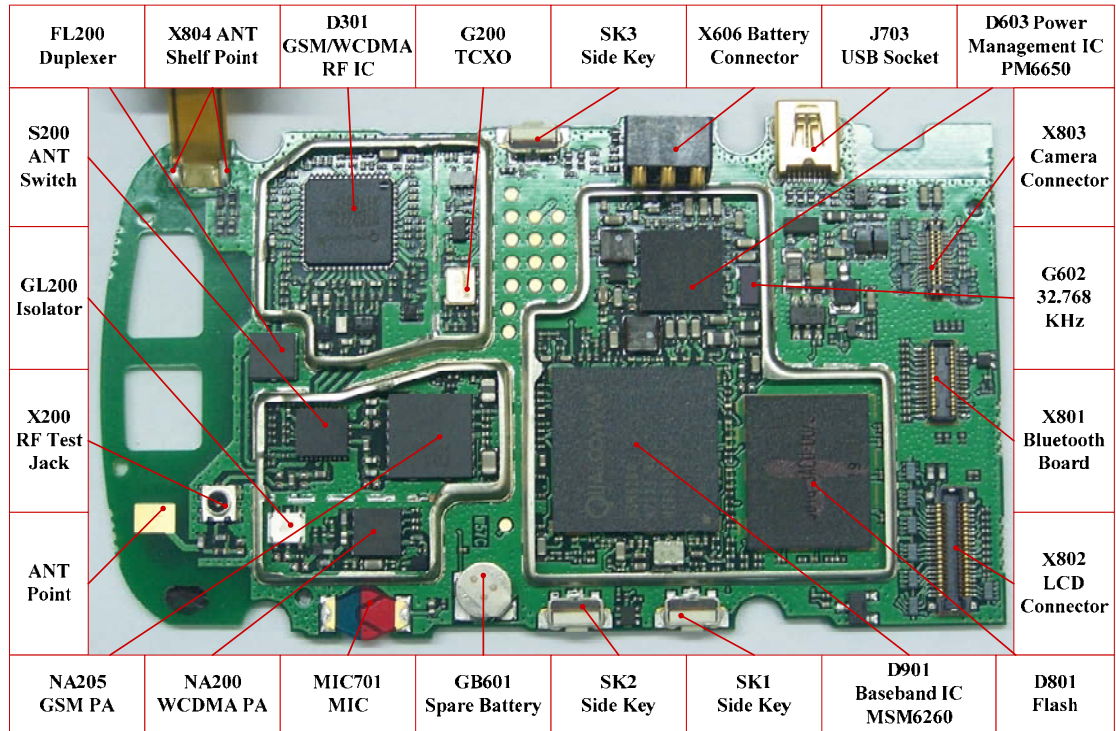


## 2.4 Composing

| Up Front Cover | Speaker                                                                             | FPC      | LCD     | Motor  | Down Front Cover | Screws              |
|----------------|-------------------------------------------------------------------------------------|----------|---------|--------|------------------|---------------------|
| KB             |  |          |         |        |                  | Bluetooth           |
| Hinge          |                                                                                     |          |         |        |                  |                     |
|                |                                                                                     |          |         |        |                  | MB                  |
|                |                                                                                     |          |         |        |                  | Inner ANT (Speaker) |
| Side Key       | Up Back Cover                                                                       | Side Key | Key Pad | Camera | Down Back Cover  | Battery             |

## 2.5 Basic Device Distributing

|                                                                                      | LED | Dome |  |  |  |
|--------------------------------------------------------------------------------------|-----|------|--|--|--|
|  |     |      |  |  |  |
|                                                                                      |     |      |  |  |  |
|                                                                                      |     |      |  |  |  |
|                                                                                      |     |      |  |  |  |
|                                                                                      |     |      |  |  |  |

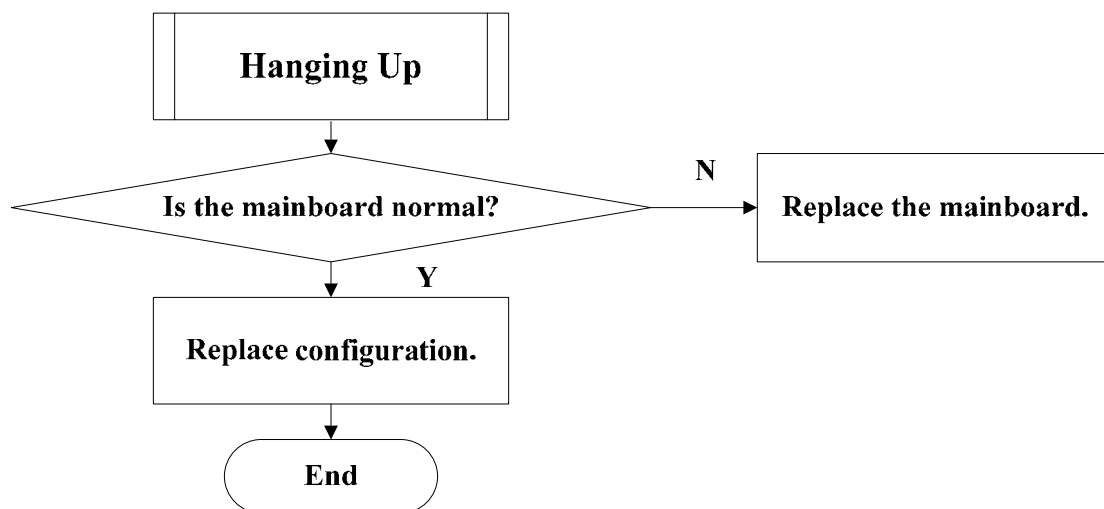


### 3. Basic flow chart of familiar troubleshooting (Level 1)

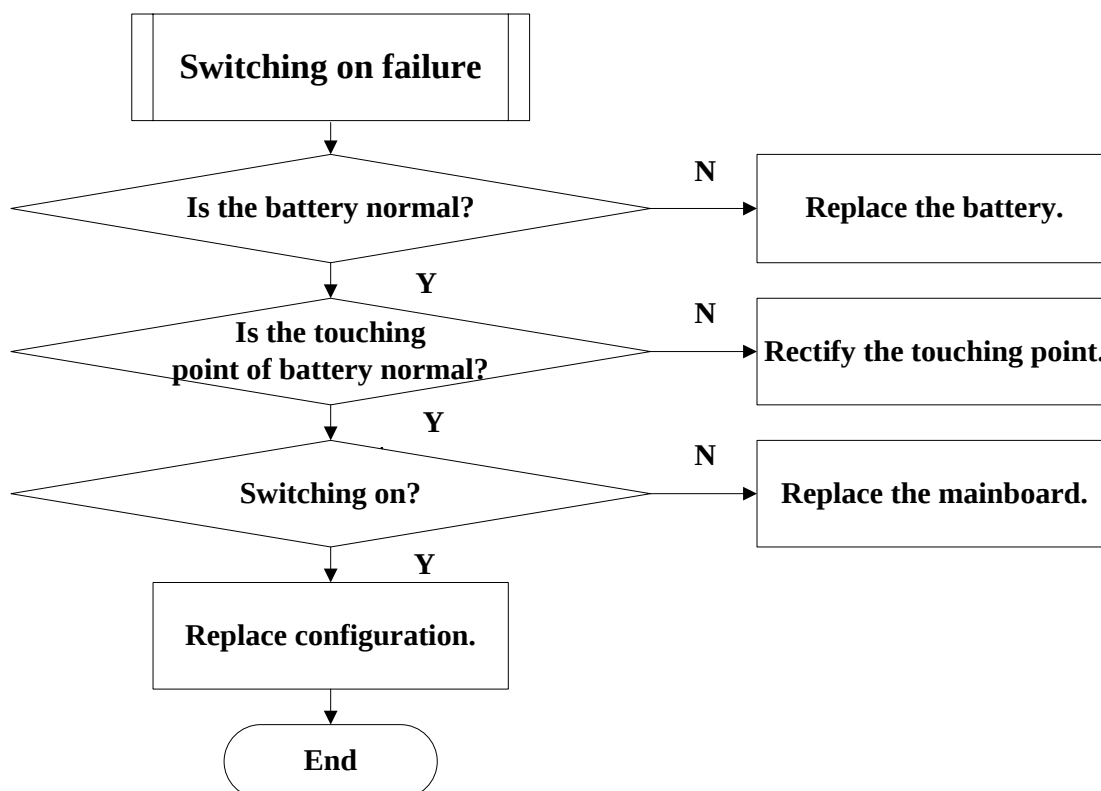
#### 3.1 Outer Devices Failure

Outer devices failure according to the dismantling flow.

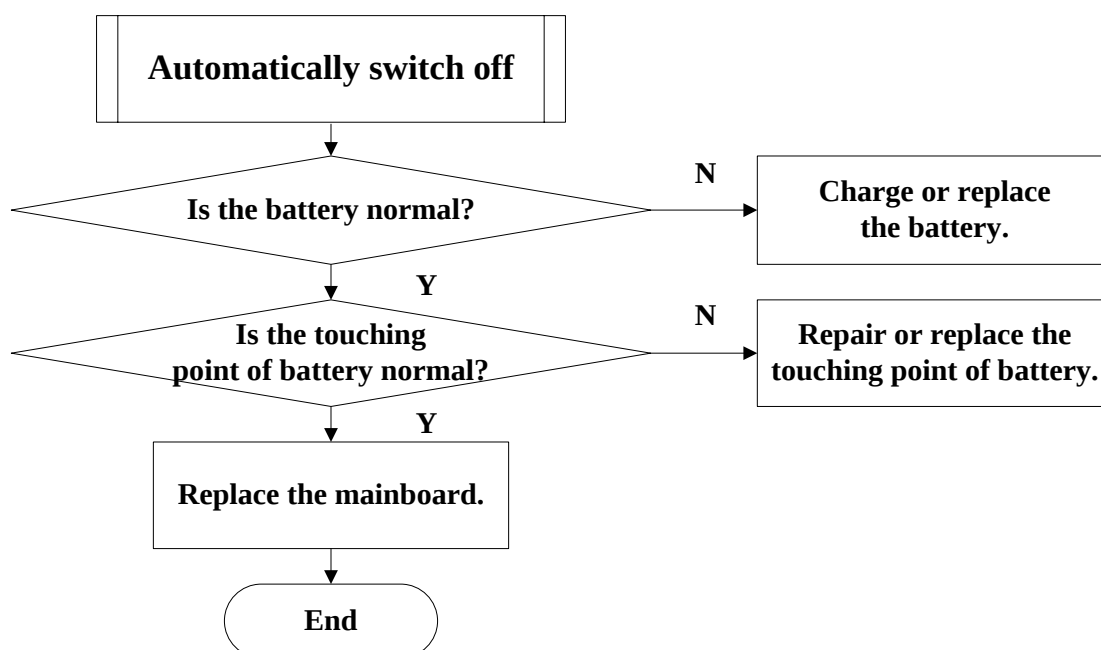
#### 3.2 Hanging Up



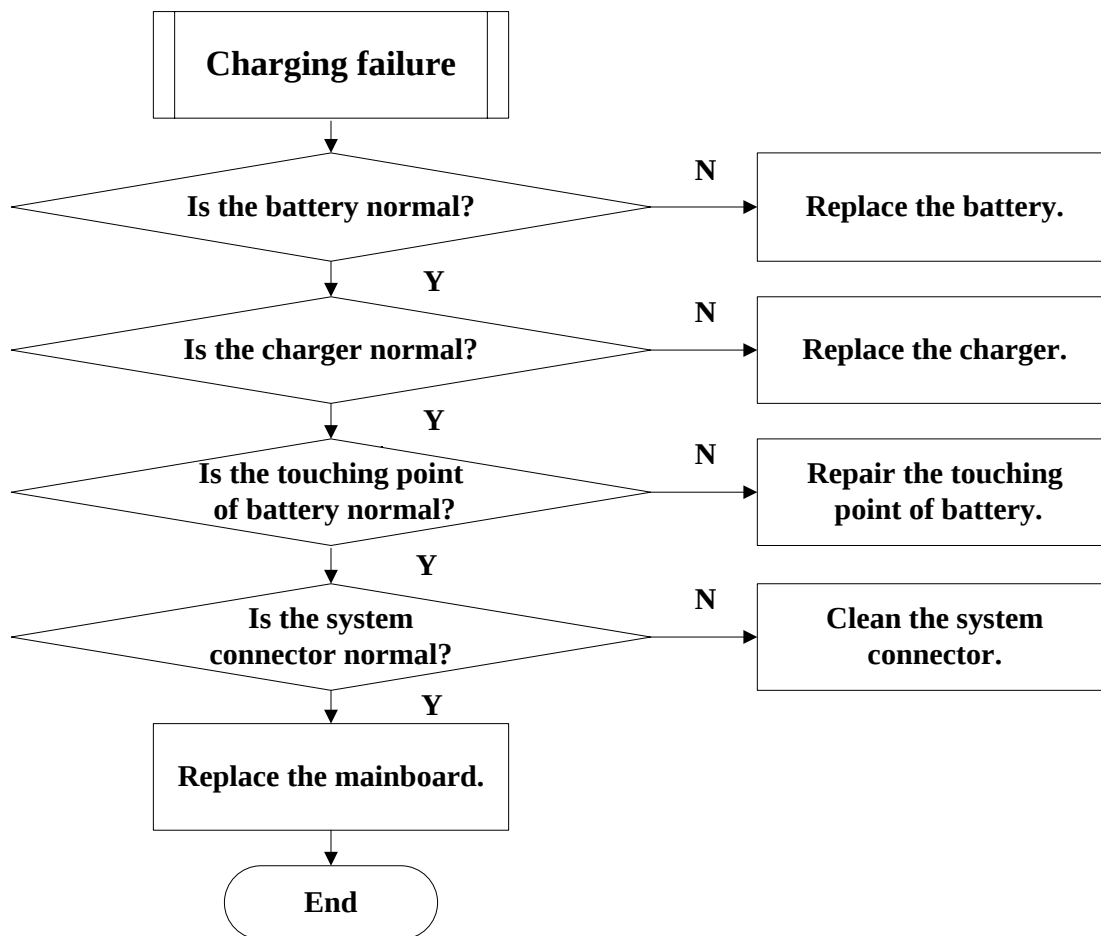
### 3.3 Switching On Failure



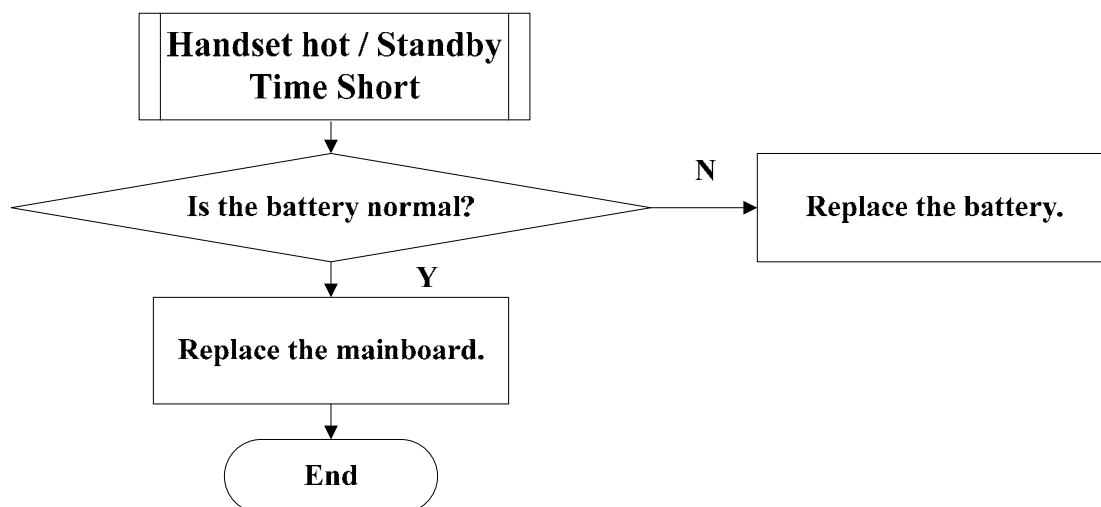
### 3.4 Automatically Switch Off



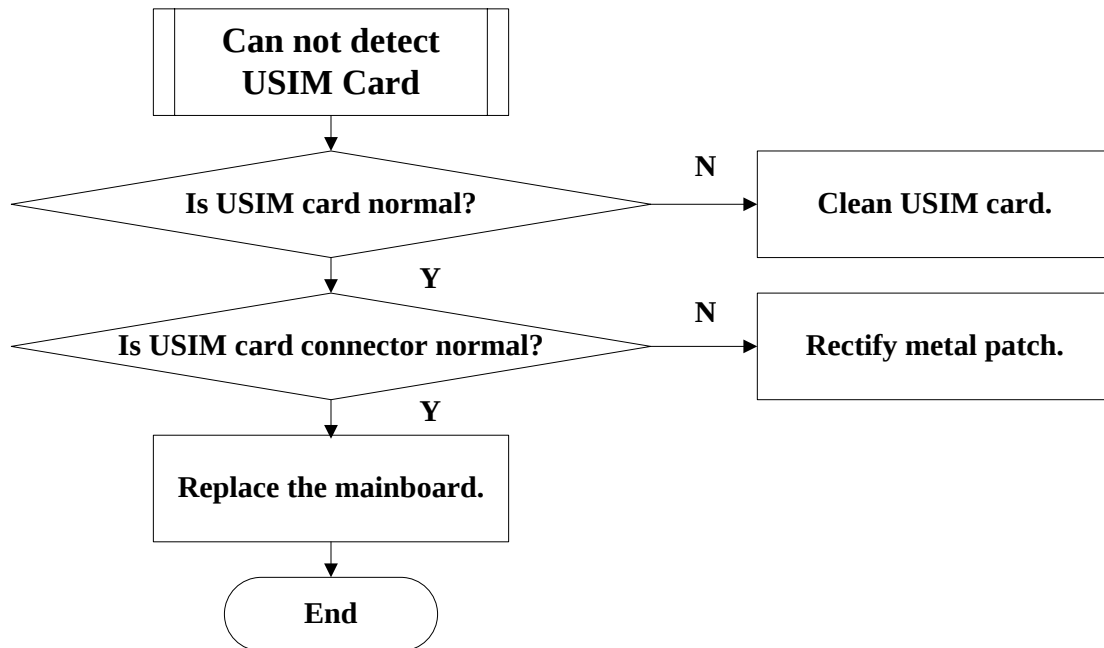
### 3.5 Charging Failure



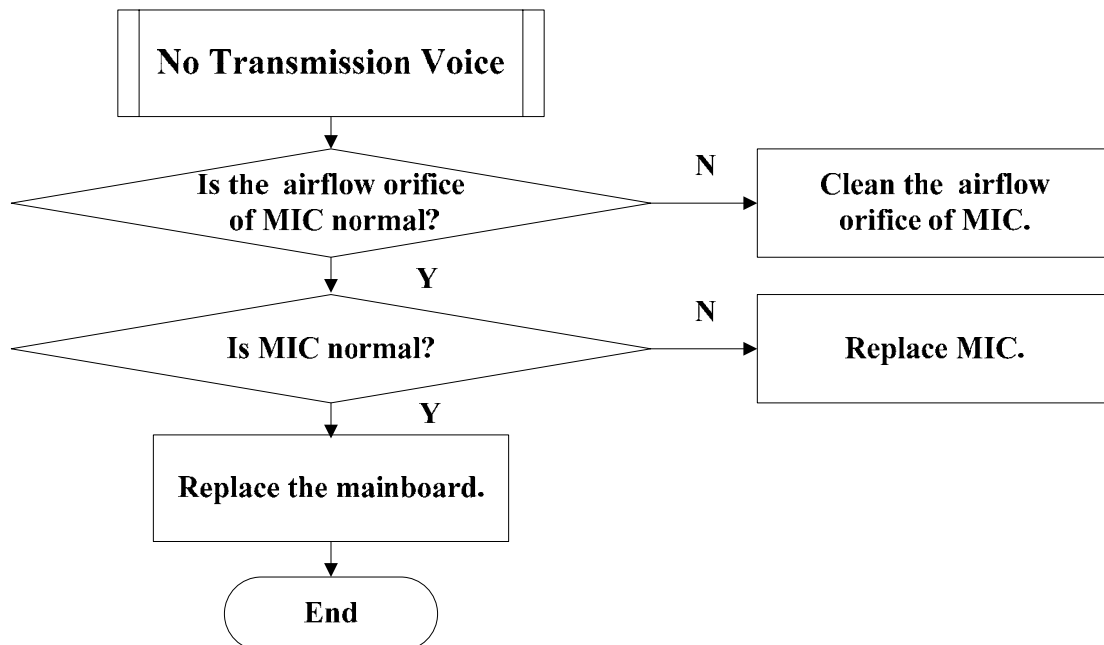
### 3.6 Handset Hot/Standby Time Short



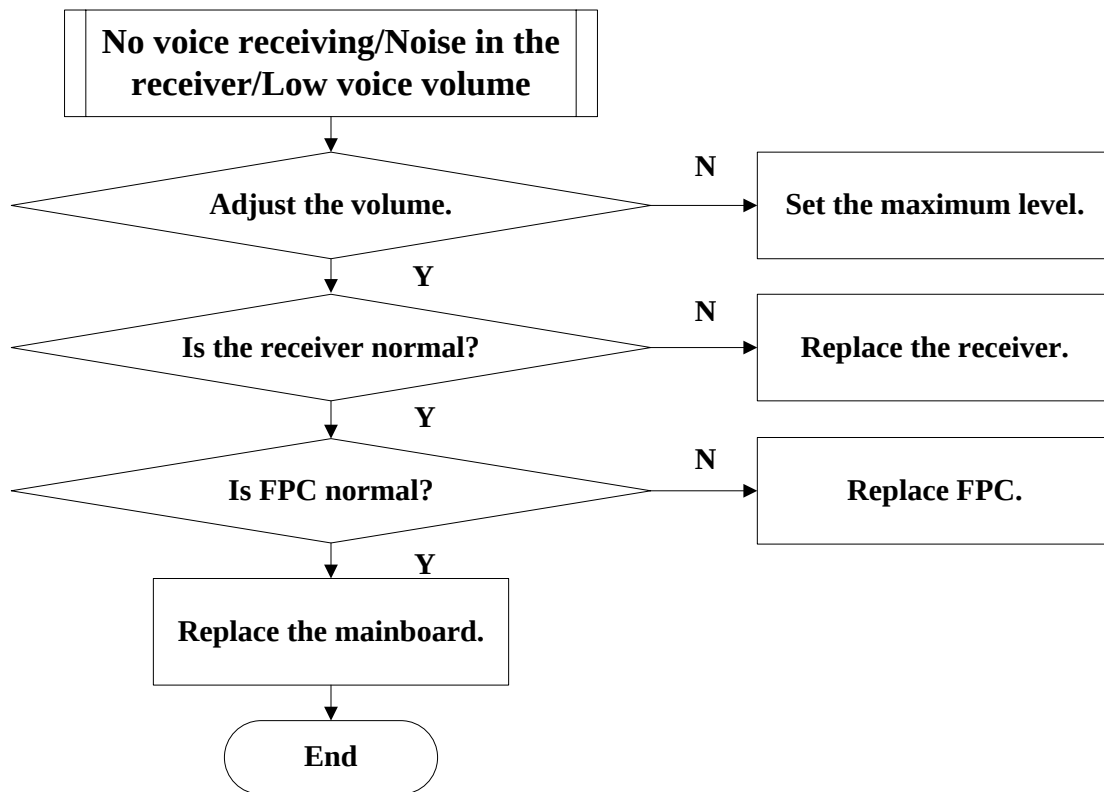
### 3.7 Can not detect USIM Card



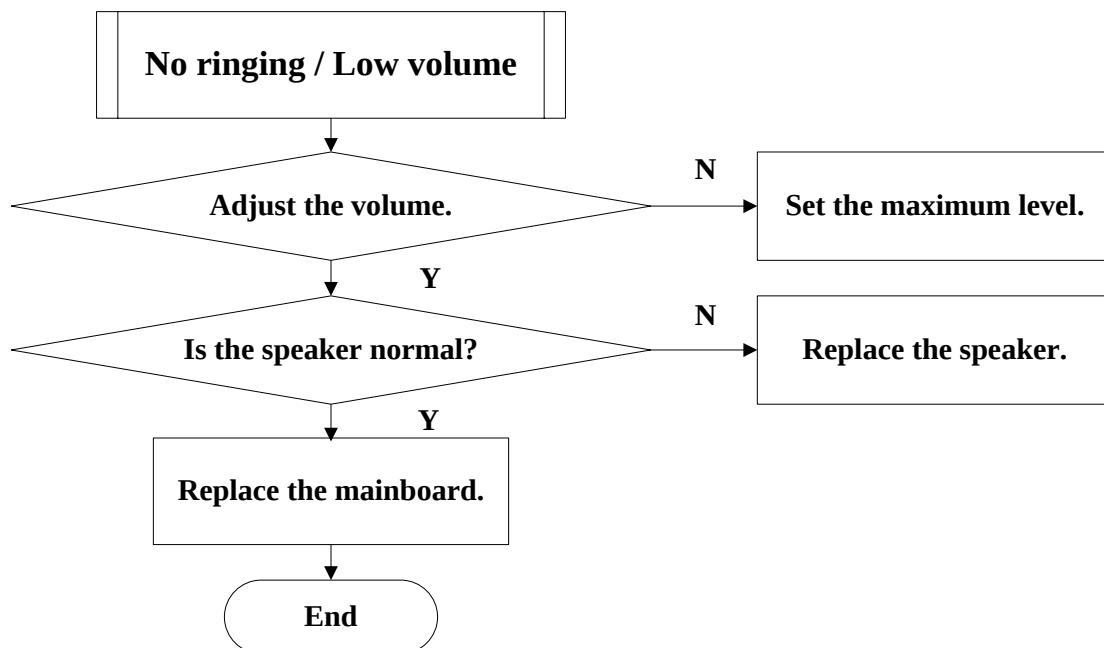
### 3.8 No Transmission Voice



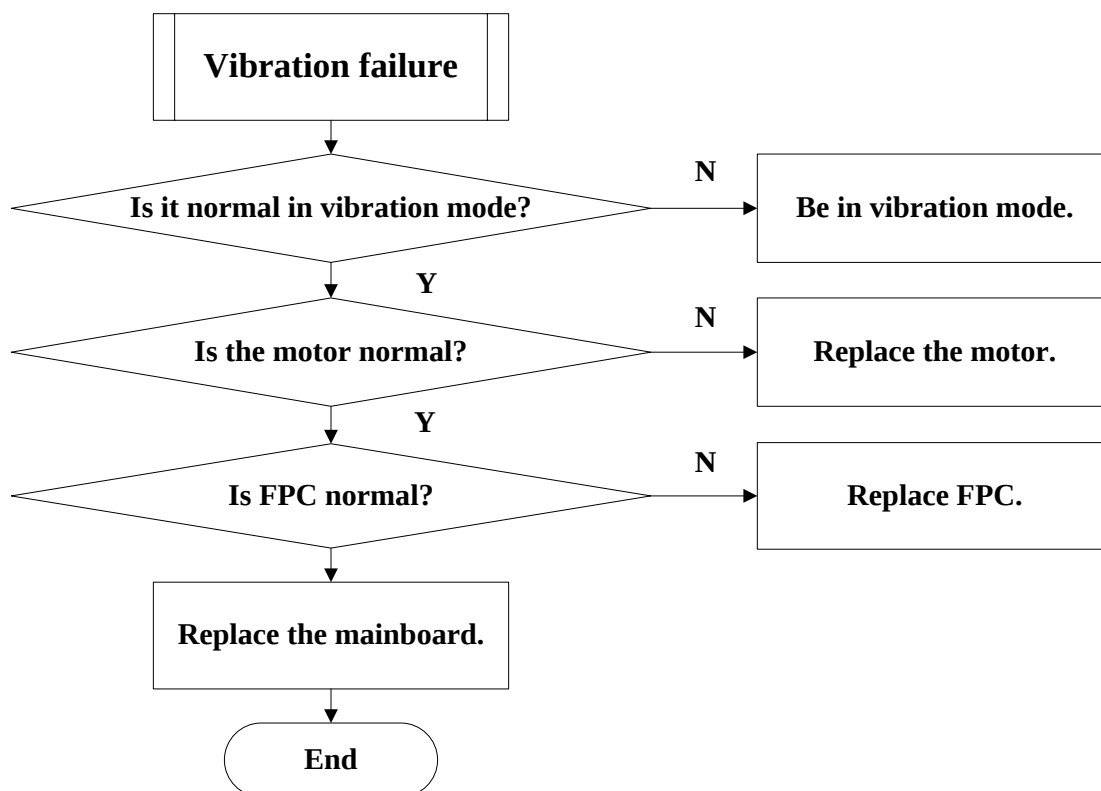
### 3.9 No voice receiving/Noise in the receiver/Low voice volume



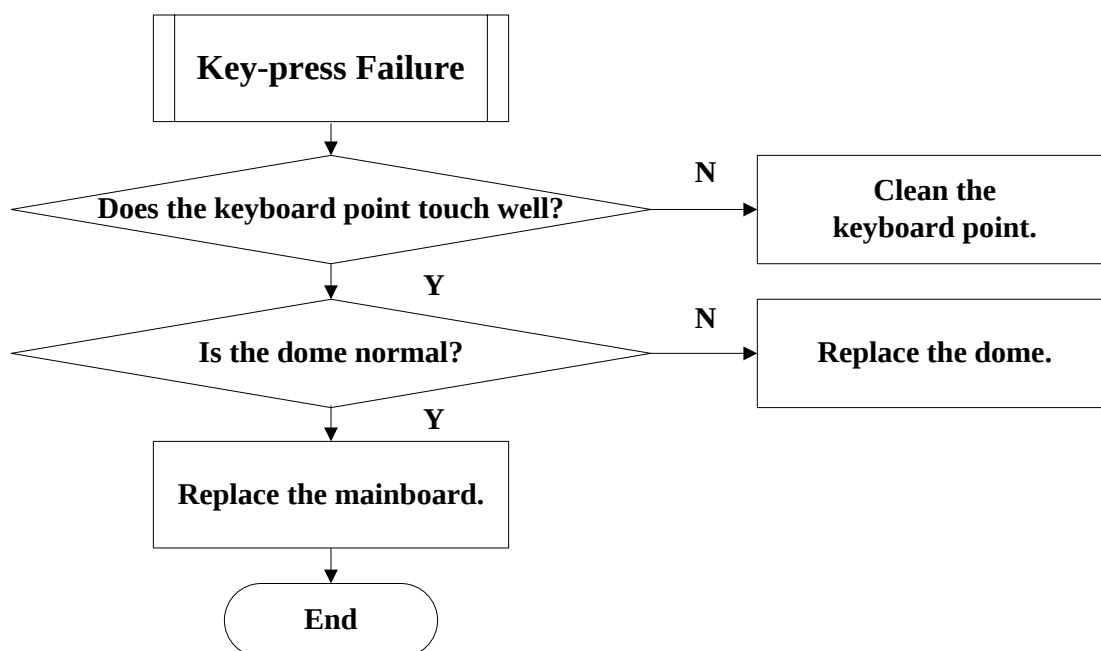
### 3.10 No ringing / Low volume



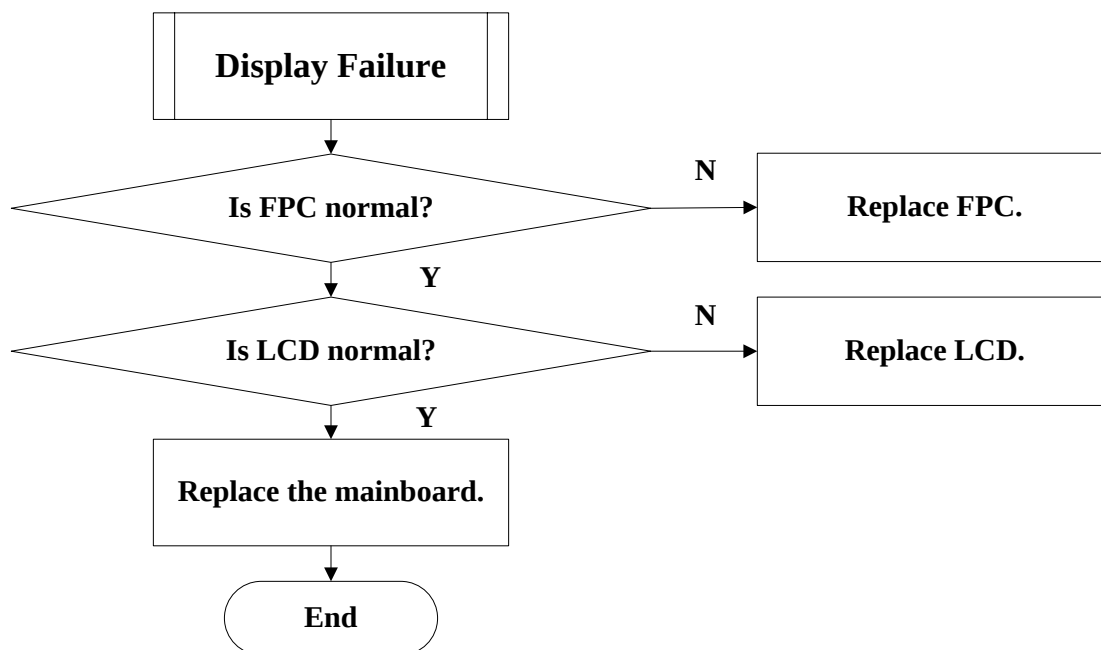
### 3.11 Vibration Failure



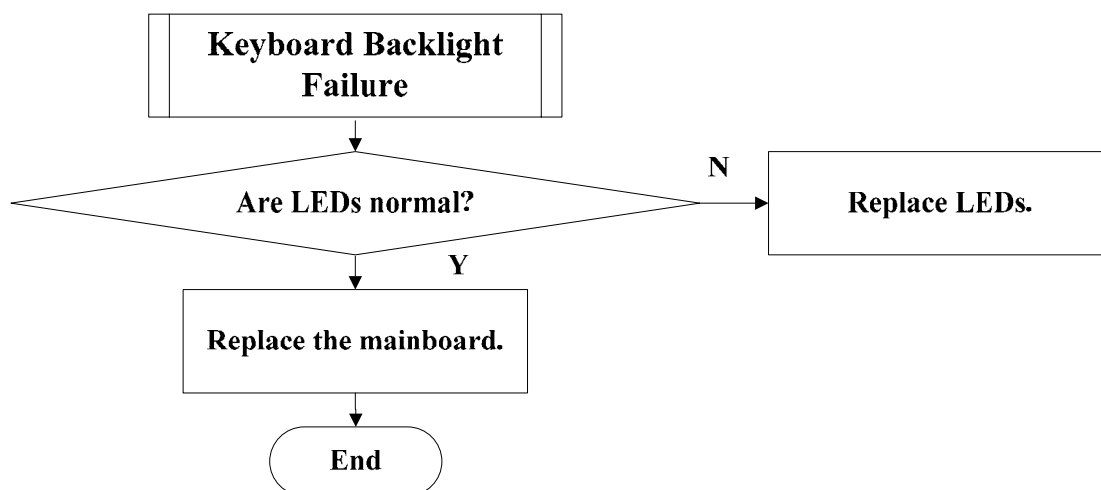
### 3.12 Key-press Failure



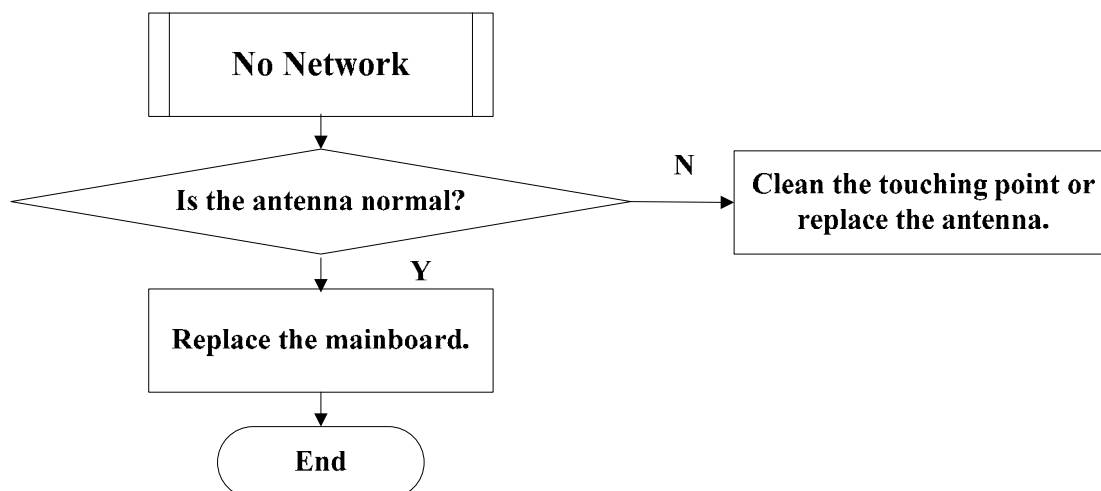
### 3.13 Display Failure



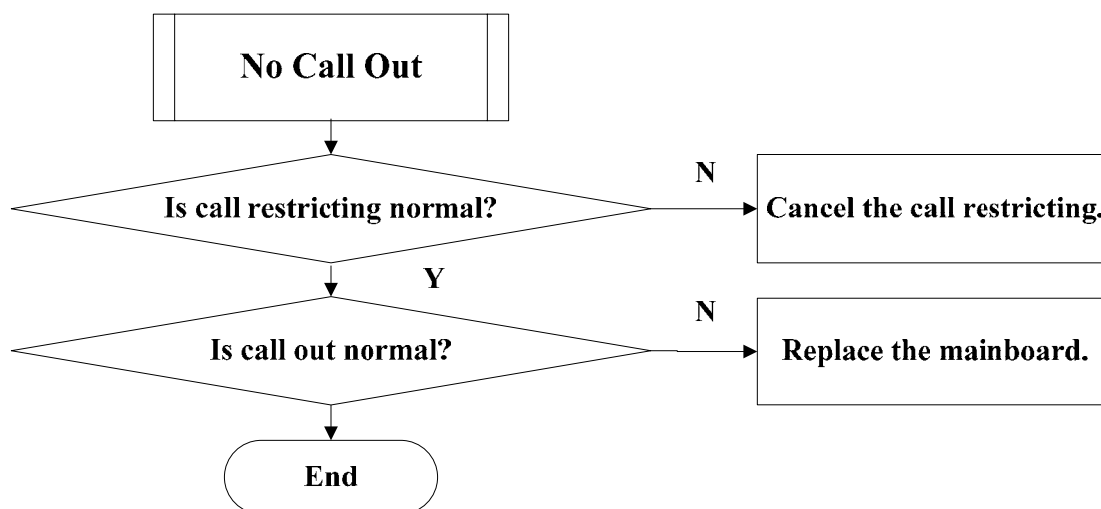
### 3.14 Keyboard Backlight Failure



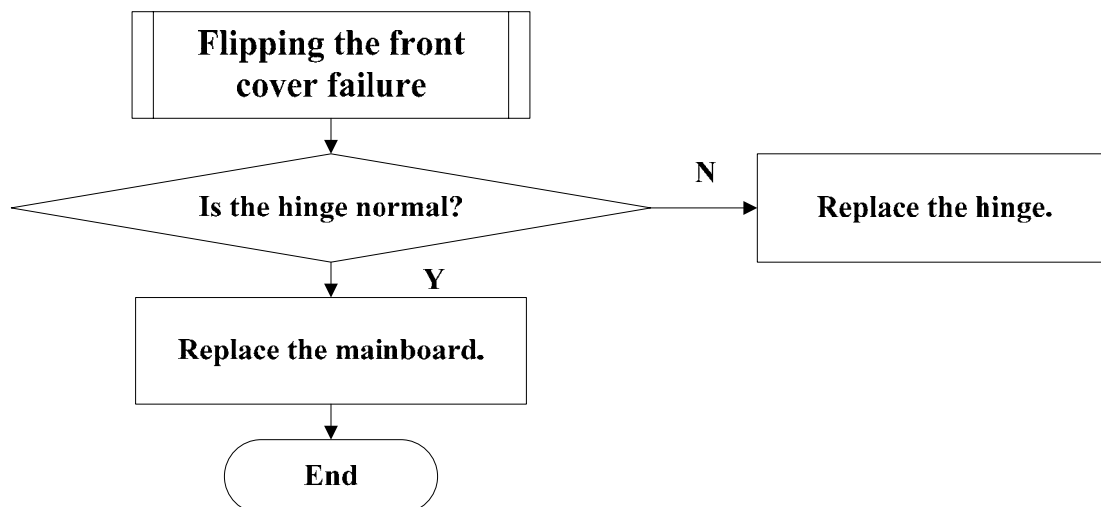
### 3.15 No Network



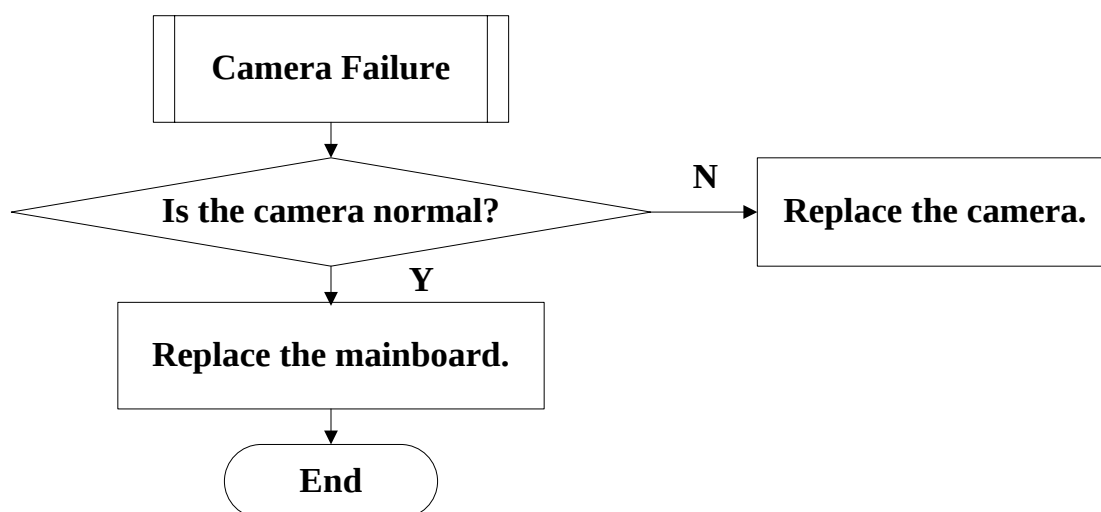
### 3.16 No Call Out



### 3.17 Flipping the front cover failure



### 3.18 Camera Failure



## 4. Part List

| P617B1 WCDMA/GSM/GPRS Handset Part List |              |                  |
|-----------------------------------------|--------------|------------------|
| No.                                     | Code         | Name             |
| 1                                       | 055401002230 | Up Front Cover   |
| 2                                       | 055401002231 | Down Front Cover |
| 3                                       | 055401002232 | Up Back Cover    |

|    |              |                   |
|----|--------------|-------------------|
| 4  | 055401002233 | Down Back Cover   |
| 5  | 055402000625 | Keyboard Assembly |
| 6  | 055401002237 | Camera FPC Hinge  |
| 7  | 035030100183 | P617B1LCD         |
| 8  | 050603100111 | P617B1 Antenna    |
| 9  | 035040400030 | Receiver          |
| 10 | 035070100039 | Motor             |
| 11 | 035040100058 | Speaker           |

Note: This is the main parts list. If you need a detail one, please apply it from local after-sales service manager.