

Technology Document

Document Title: GSM A37 After-sales Service Manual

(Level 1, 2)

Document Number:

Version: B

Document Quality Grade:

Total 38 pages

(Cover Included)

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Checked

Signed

Standardized

Approved

ZTE CORPORATION

Modification Record

File No.	Version No.	Drafted	Date	Modification Reason	Main Modification Content
	B	Xu Kun	2007-07-24	None	None

Notice: 1. Fill in the table while modify the document.

2. The modification reason and main modification content columns are filled in none during first document making.

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1. Product Summarize

1.1 Specification

- ✧ Network: GSM
- ✧ Dimension (high*width*ply): 101mm*44mm*13.5mm
- ✧ Weigh: about 80g (including the battery)
- ✧ Call continuance: about 2~4h
- ✧ Standby continuance: about 80~120h
- ✧ LCD: 128 * 128
- ✧ Standard configuration: one battery one charge



1.2 Main Functions

- ✧ 300000 pixels camera
- ✧ WAP / GPRS / MMS
- ✧ 65536 TFT
- ✧ 32 Poly tone
- ✧ Multi-Profile setting (General, meeting, outdoor, silent, handset)



1.3 Inner Type

Inner Type	Outer Type
P103B2	A37

2. Inner Structure and Elements

2.1 Function Test

- ◆ Edition test dictate: *983*837#
- ◆ Function test dictate: *983*0#

Enter function automatic test, handset will automatic test in turn.

(Remark: Function automatic test includes: display, vibrator and ringing tone, keyboard and audio frequency loop.)

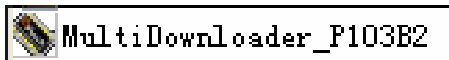
2.2 Software Download

◆ Software download illuminate

Each handset to be repaired should be upgrade to the latest version.

◆ Download platform

MultiDownloader_P103B2 (Only support Chinese System Windows)



◆ Data Cable

- **Bata Cable:** A100 series standard download Cable (including charge)

Material code: IS010103

- **USB data Cable of E798DOWNLOAD**

Material code: ISO11259



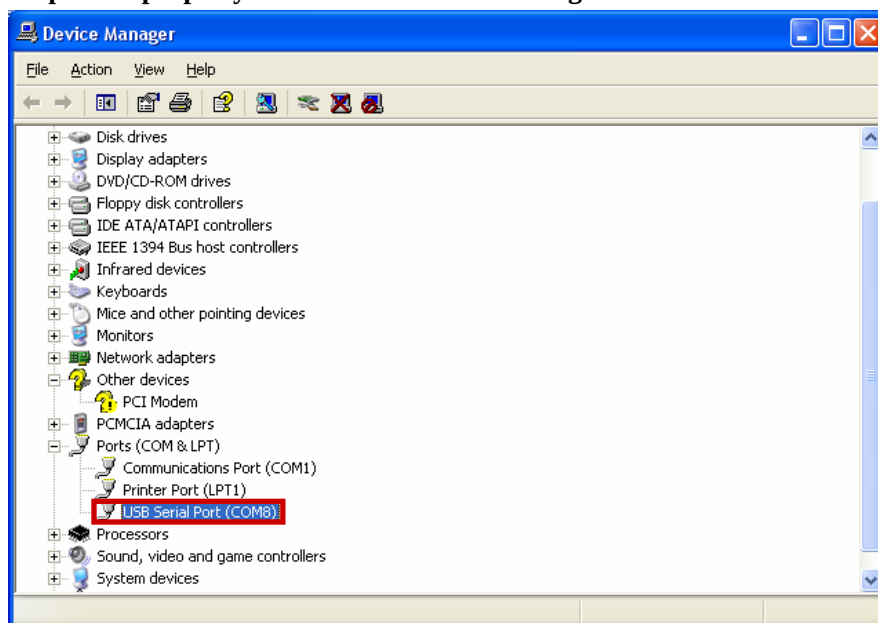
◆ Download cable driver

USB download cable driver of E798 (Note: only when using USB cable to download, it needs to install this driver.)

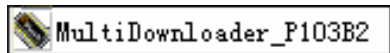
◆ Port setting (first you should check which port is the virtual port in device manager, then to set port)

The best way to enter device manager:

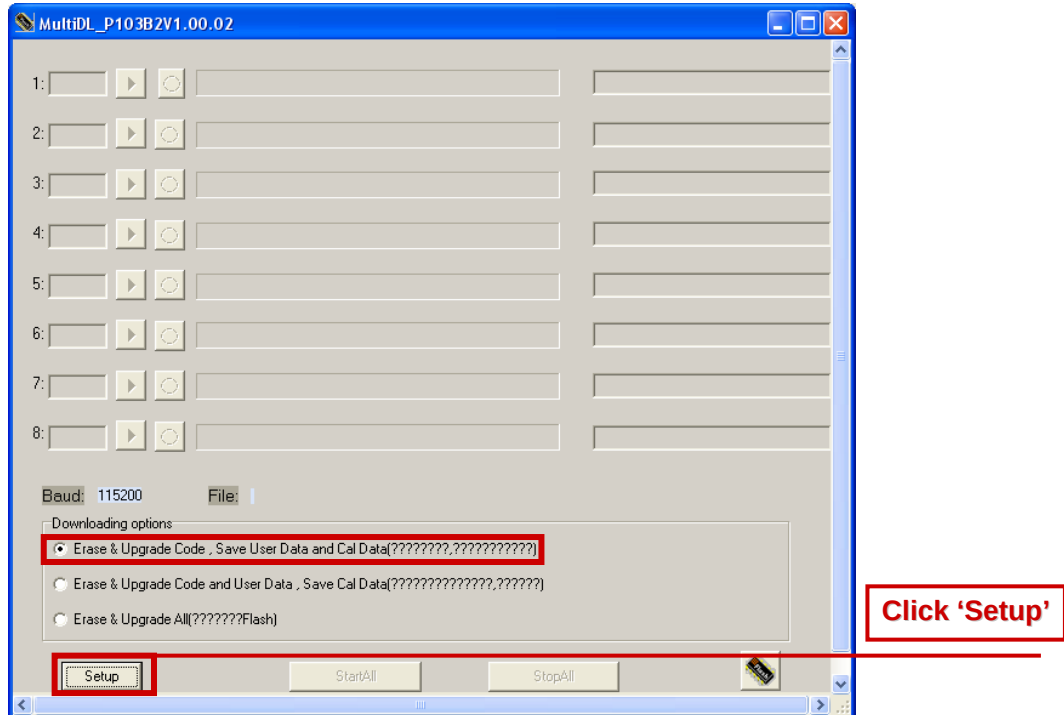
My computer—property—hardware—device manager



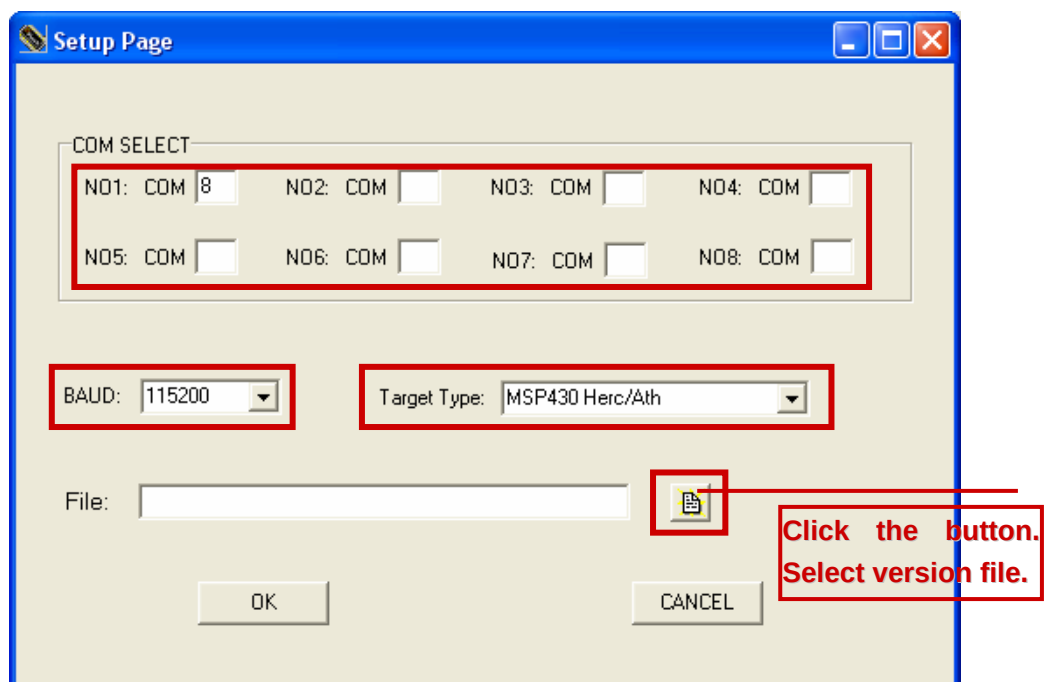
◆ Click the icon twice.



- ◆ Main interface
- ◆ Select ☒ Erase & Upgrade Code , Save User Data and Cal Data

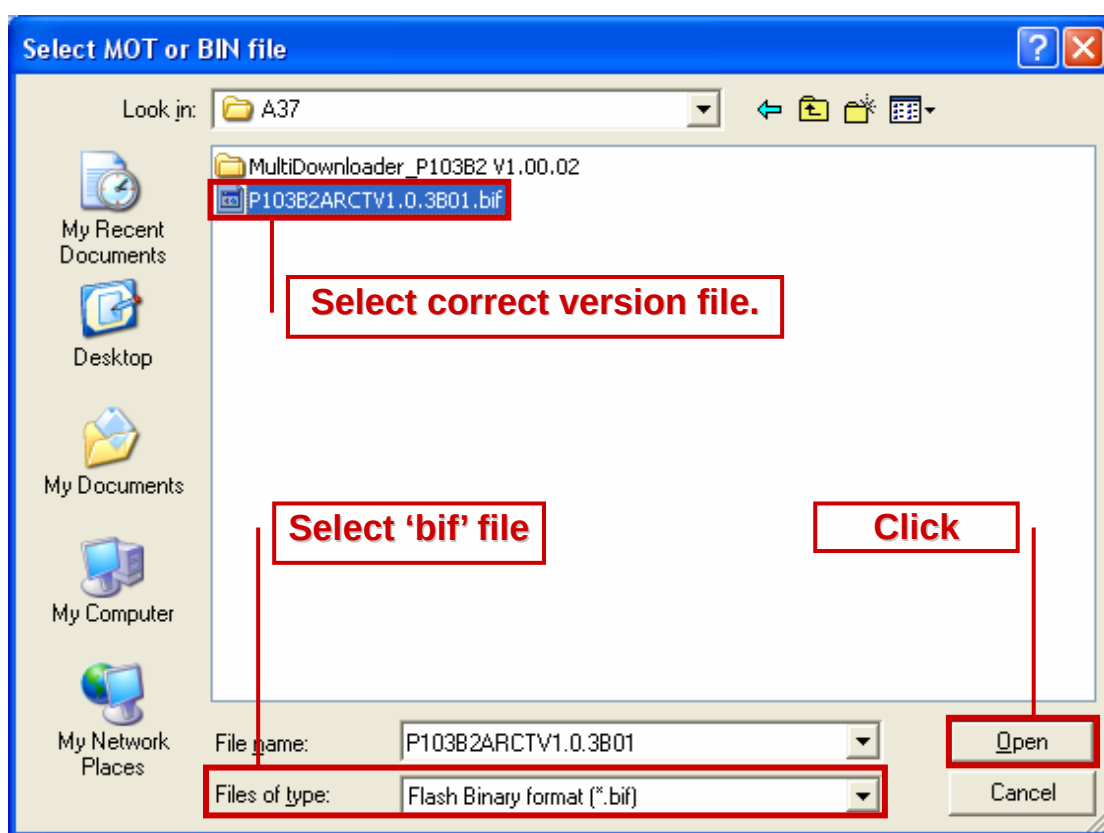
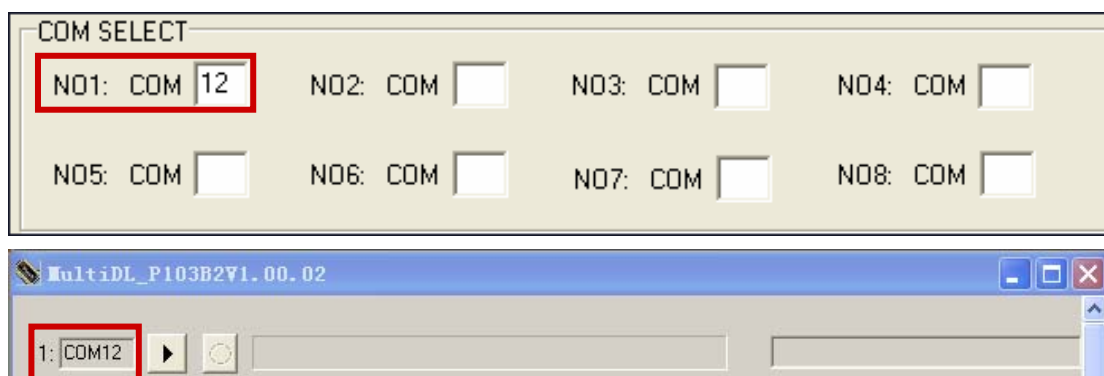


- ◆ Set the port by manual as follow.
BAUD: 115200
Target Type: MSP430Herc/Ath

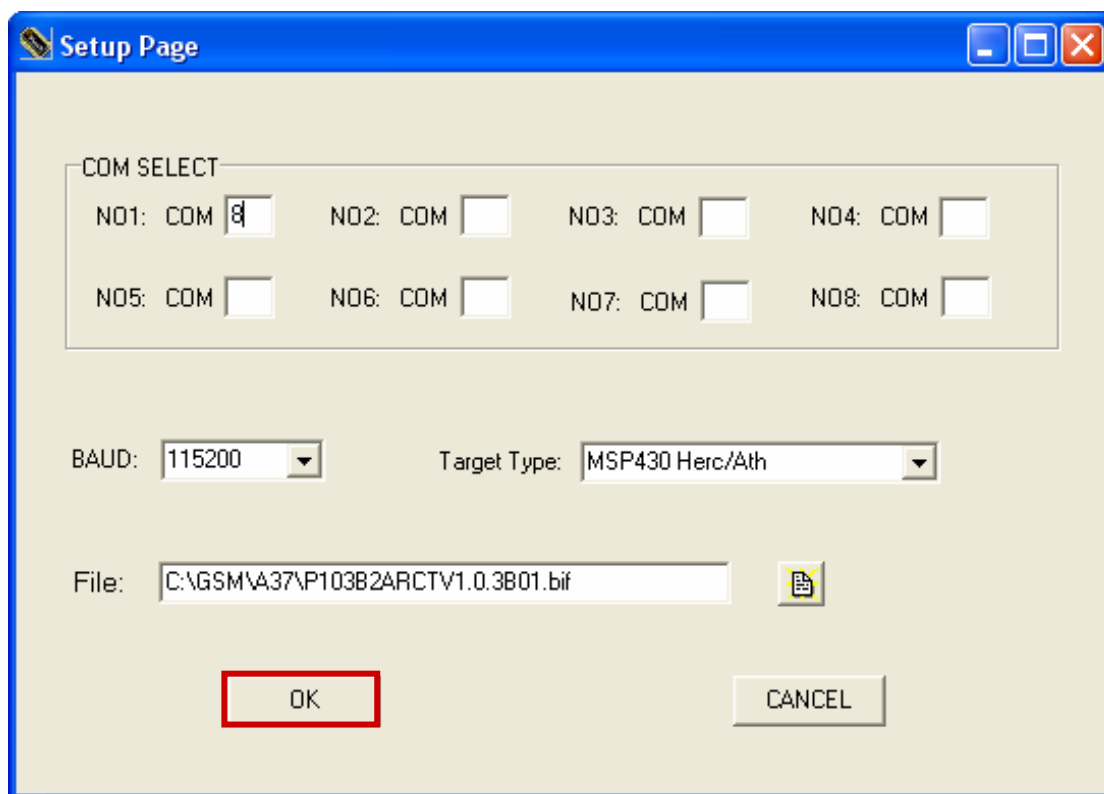


- Note during setting port: if the default port is more than 8 in device manager, for

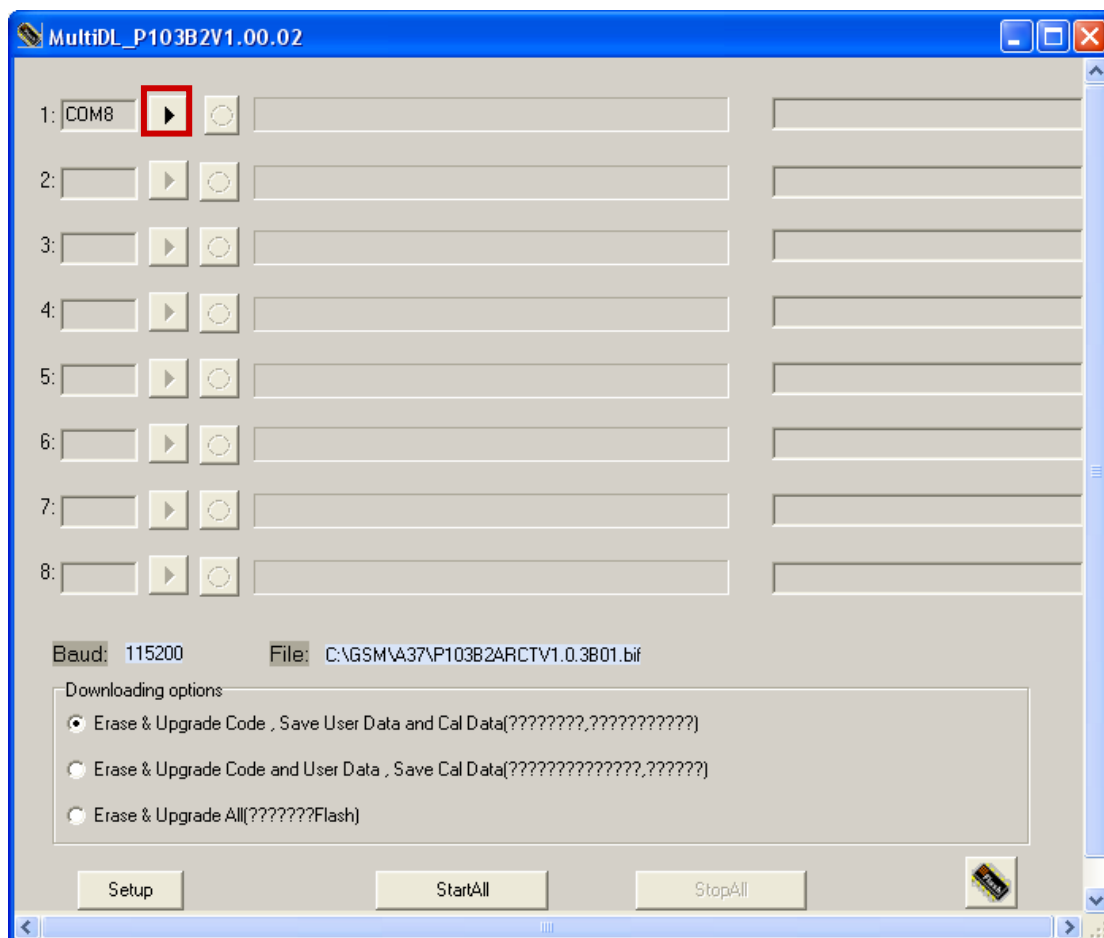
example 12, set the port COM12. Select COM12 during downloading.



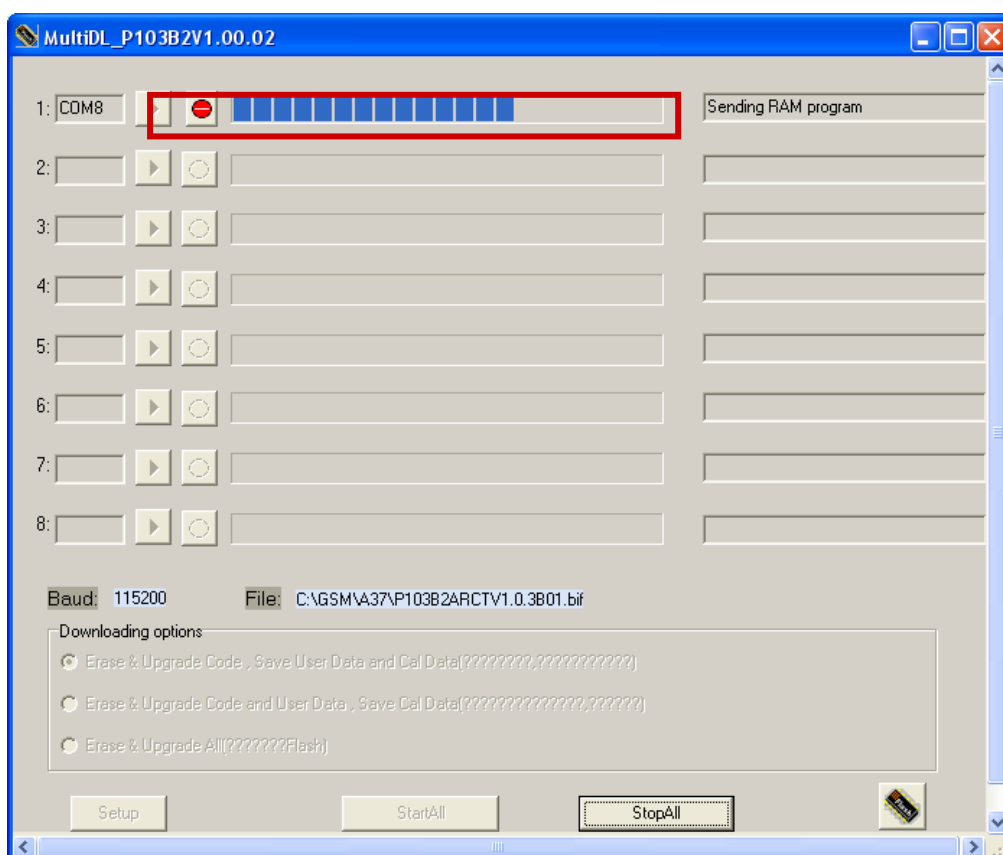
- ◆ Click OK.



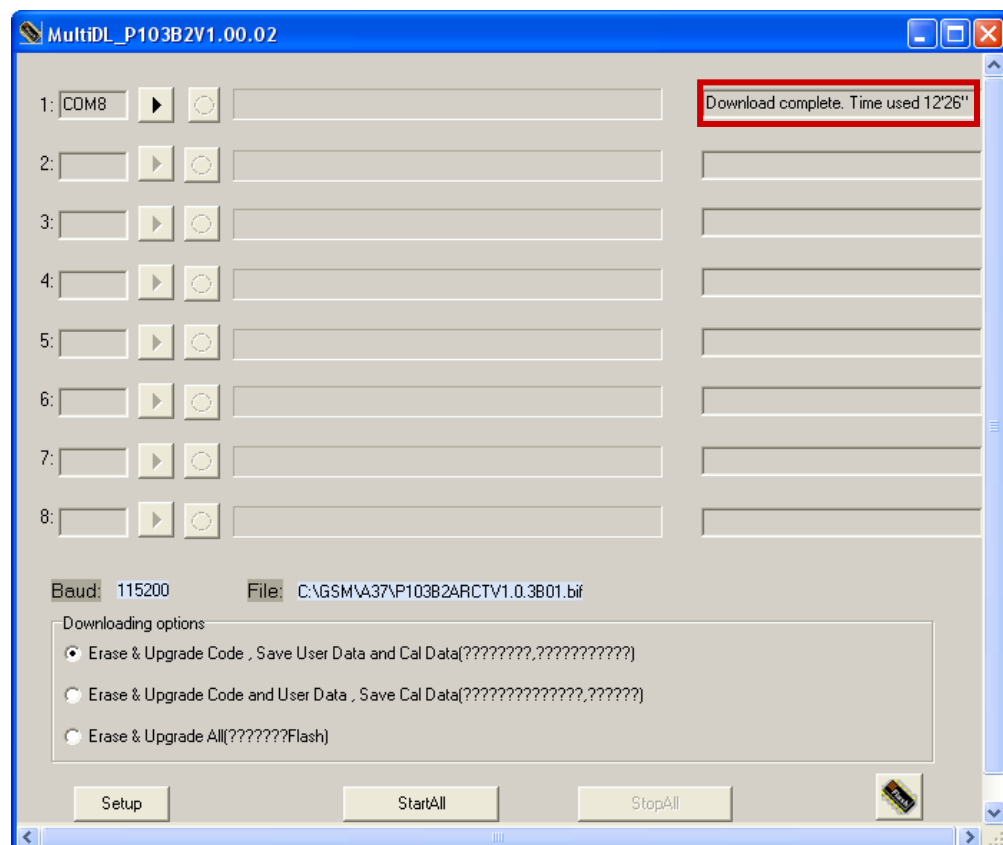
- ◆ Click the start button  or 'StartAll', then begin to download.



Downloading.



Download complete. Time used.



2.3 Unlock Software Operation

2.3.1 Execute Programme

Connect the handset (in charging state) and computer by data cable, double click the shortcut “Unlock Mobile” on the desktop, run the program. The interface as follows:

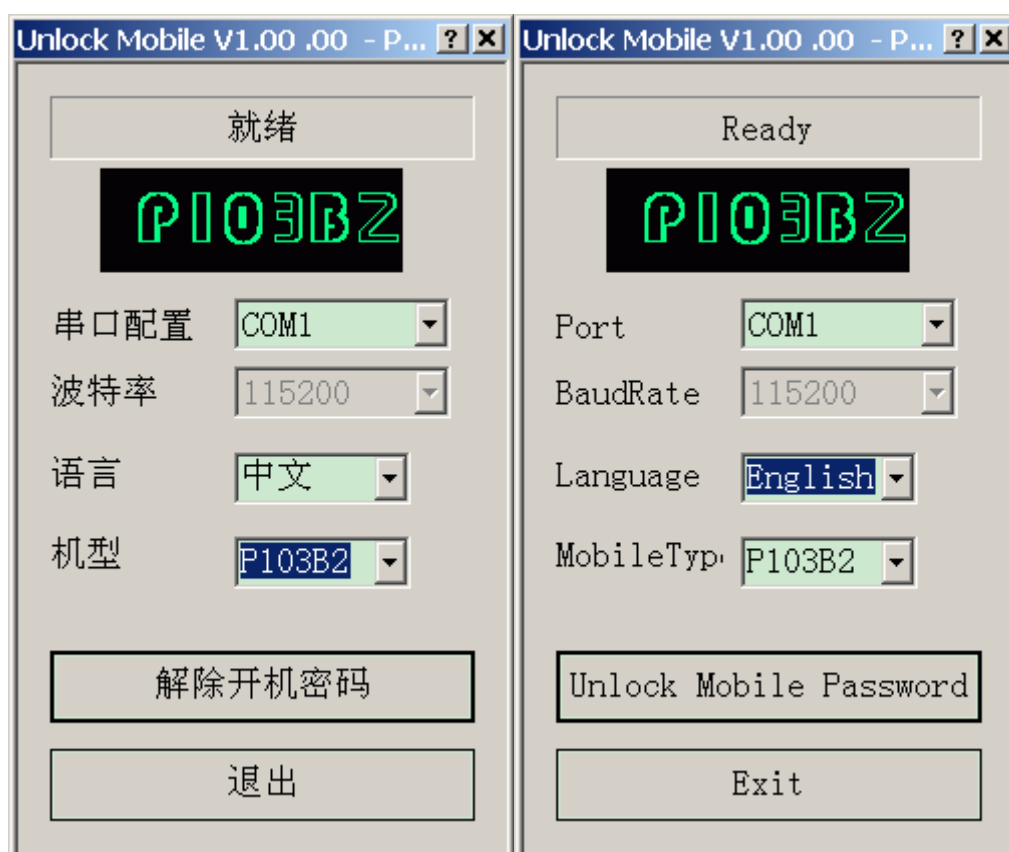


Fig 1

2.3.2 Port setting

Select the right COM, the BaudRate is 115200 that can not change. Then you can select English or Chinese.

This version is suitable for unlocking P103C1 (A39), you can select P103C1 in “Mobile type”.

Take the Chinese interface of P103B2 for example:

2.3.3 Unlock operation

Click “Unlock Mobile Password”, state bar display “success”, fig 2:



Fig 2

The unlocking is successful, the password is “1234” .

Otherwise the interface will display “fail” , as the fig 3, check if the connecting between handset and computer is OK .



Fig 3

Note :

1. This software is suitable for both P103B2 and P103C1.
2. If the software no respond after you click “Unlock Mobile password” one or two minutes later, please close all programmer then restart .
3. User can choose language. Choose “English”, the interface display as English, choose Chinese the interface display as Chinese.

2.4 Disassembly Flow



**Handset disassembly
needs these tools
(From left to right):
Anti-electrostatic glove,
Anti-electrostatic wrist,
Screwdriver,
Tweezers,
Dismantle rind implement.**

- ◆ **The position of four screws.**



- ◆ **Pay attention to the position of lock.**



- ◆ **Pay attention to the position of lock.**



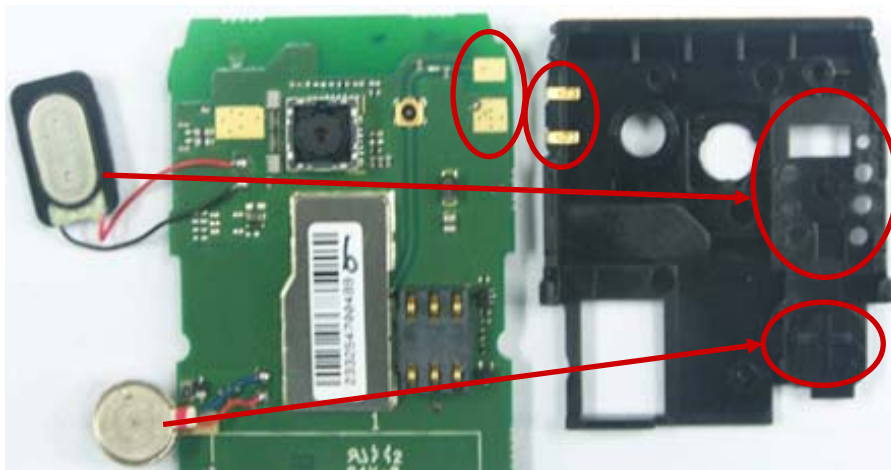
- ◆ Separate the front and back cover, pay attention to the position of motor speaker MIC and MIC point.



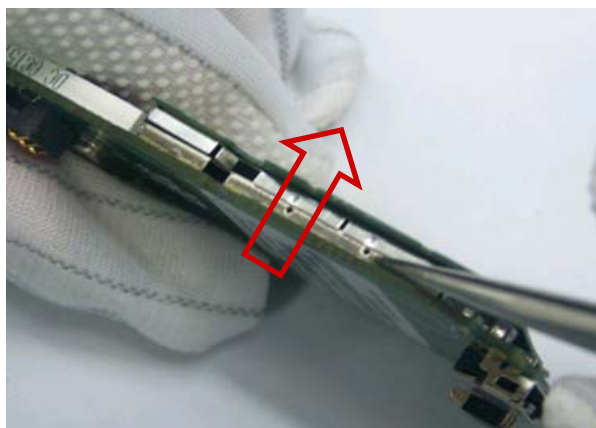
- ◆ Pay attention to headphone, headphone point and antenna point.



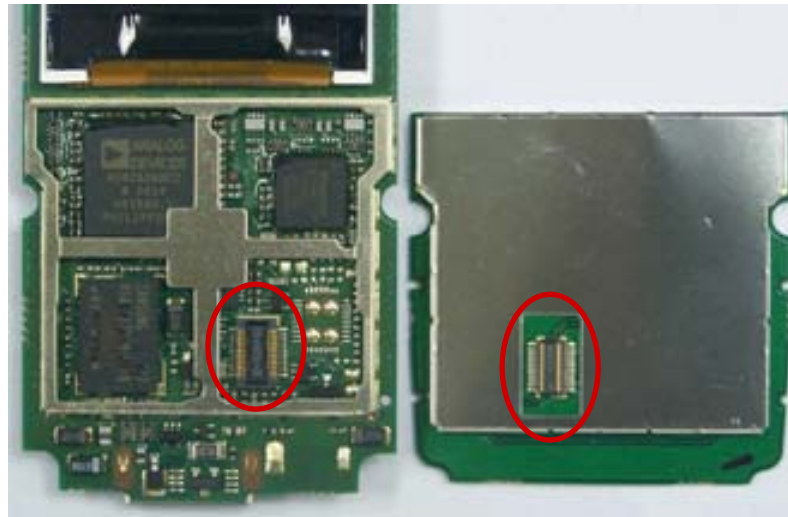
- ◆ Pay attention to the inner antenna touch, speaker and motor.



- ◆ Take out the key board by tweezers.



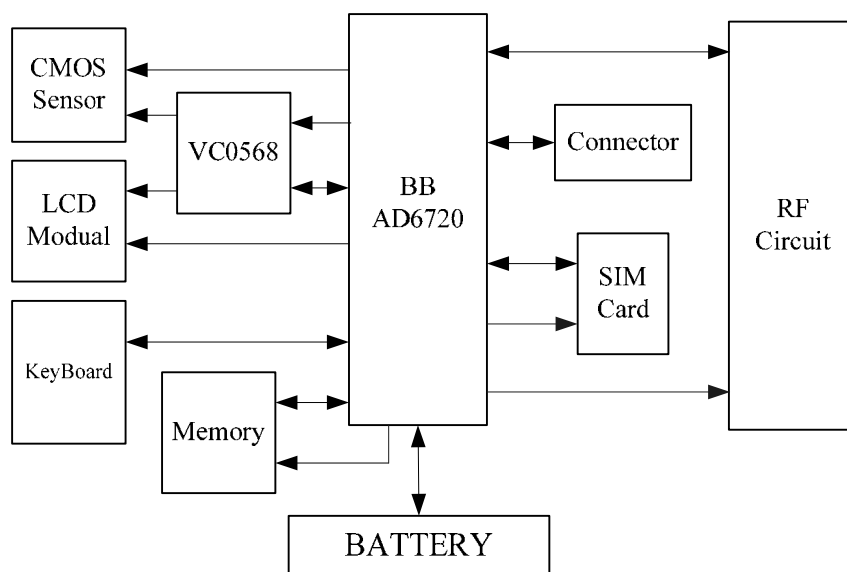
- Key board and key board connector



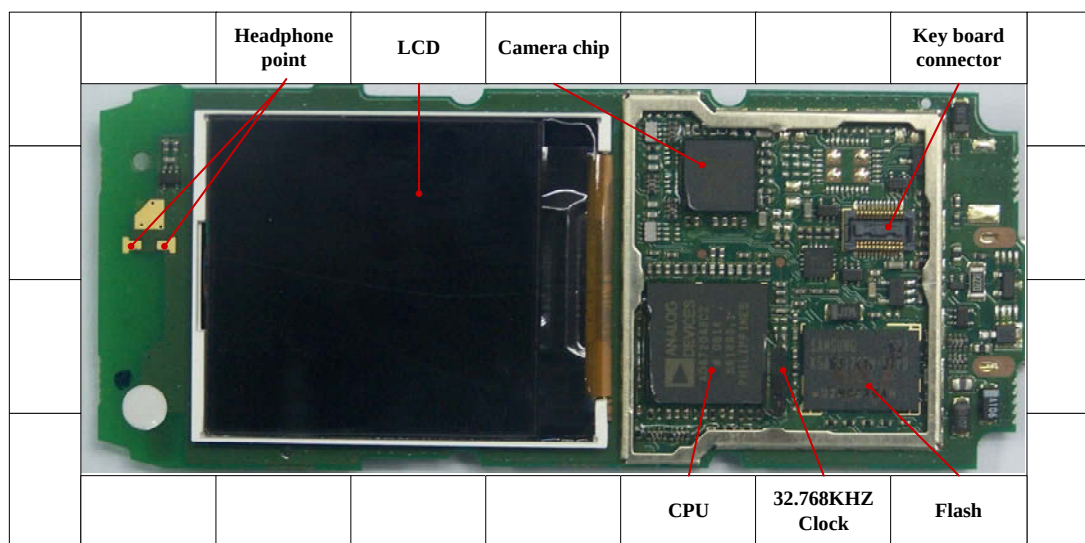
2.5 Composing



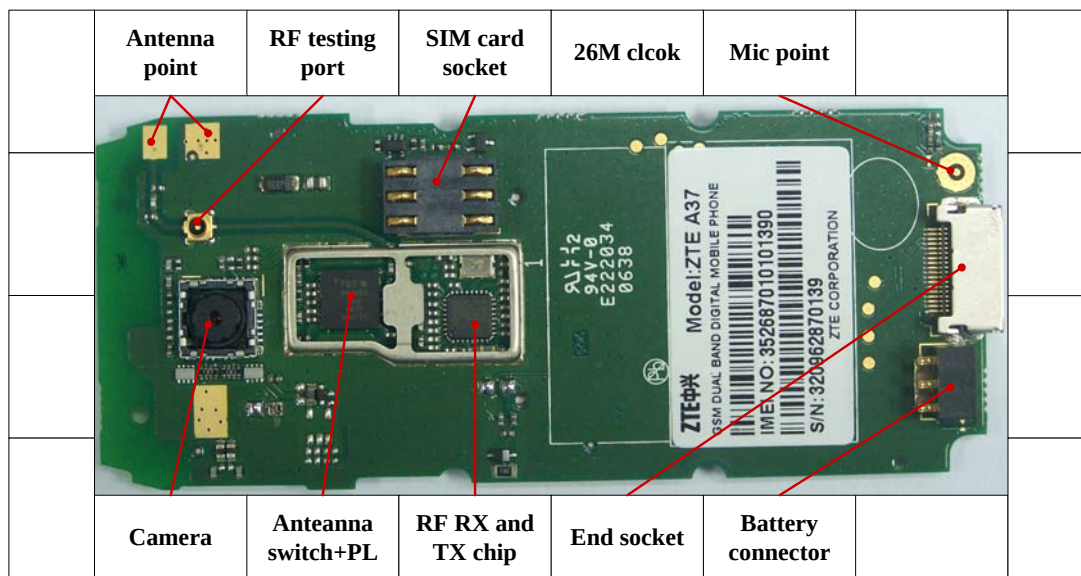
2.6 Block Diagram



2.7 Basic Part Distributing



MB Top Distributing



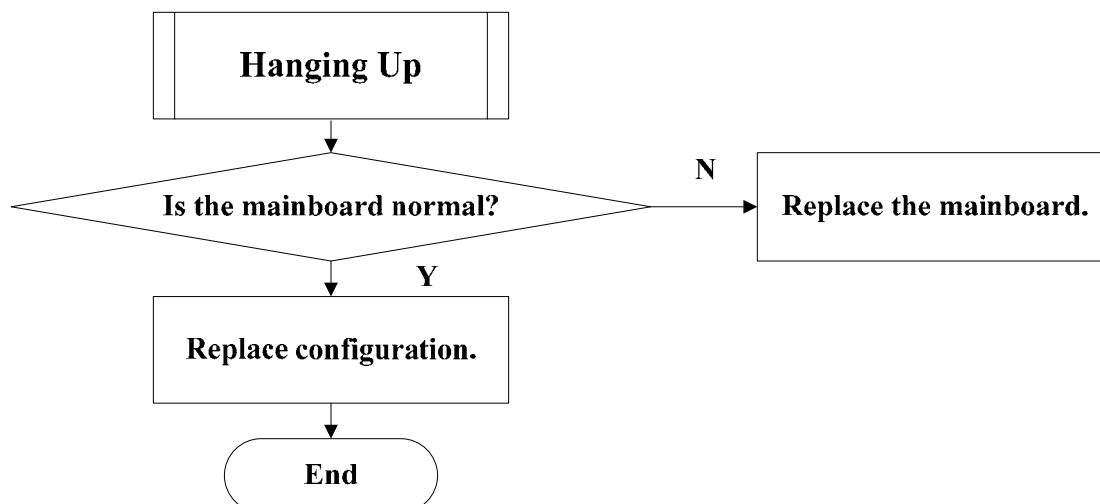
MB Bottom Distributing

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

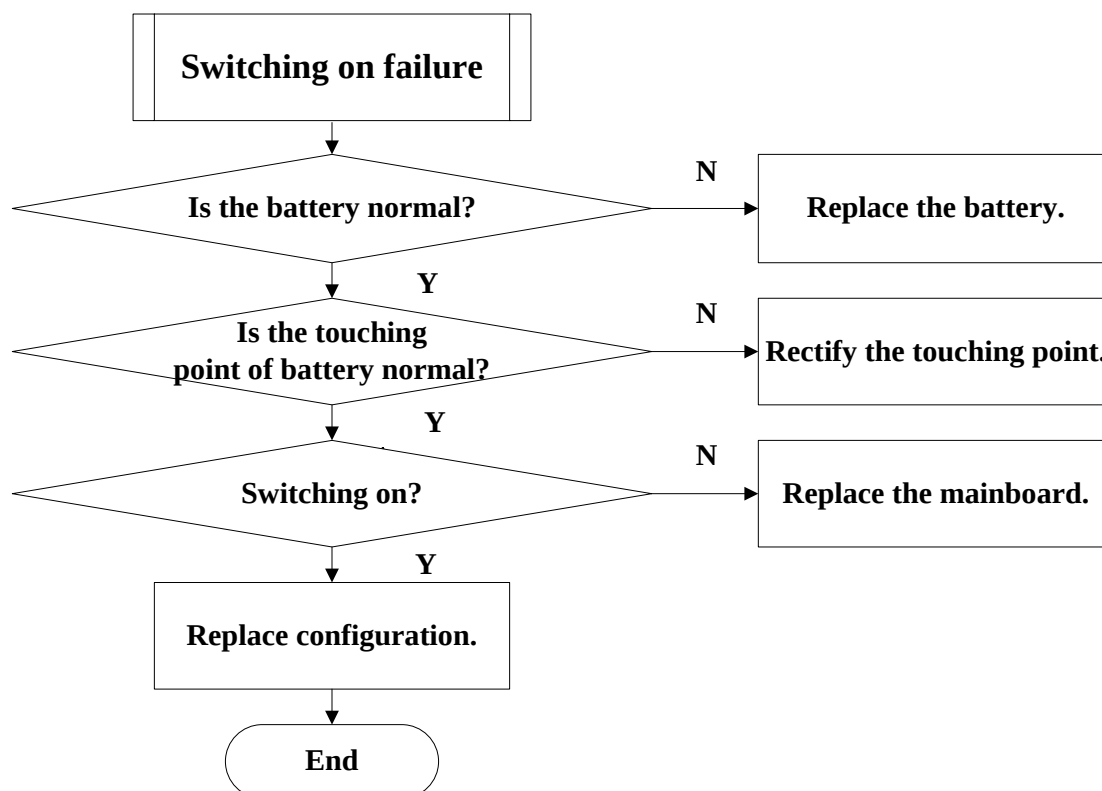
3.1 Outer Parts Failure

Outer parts failure according to the dismantling flow.

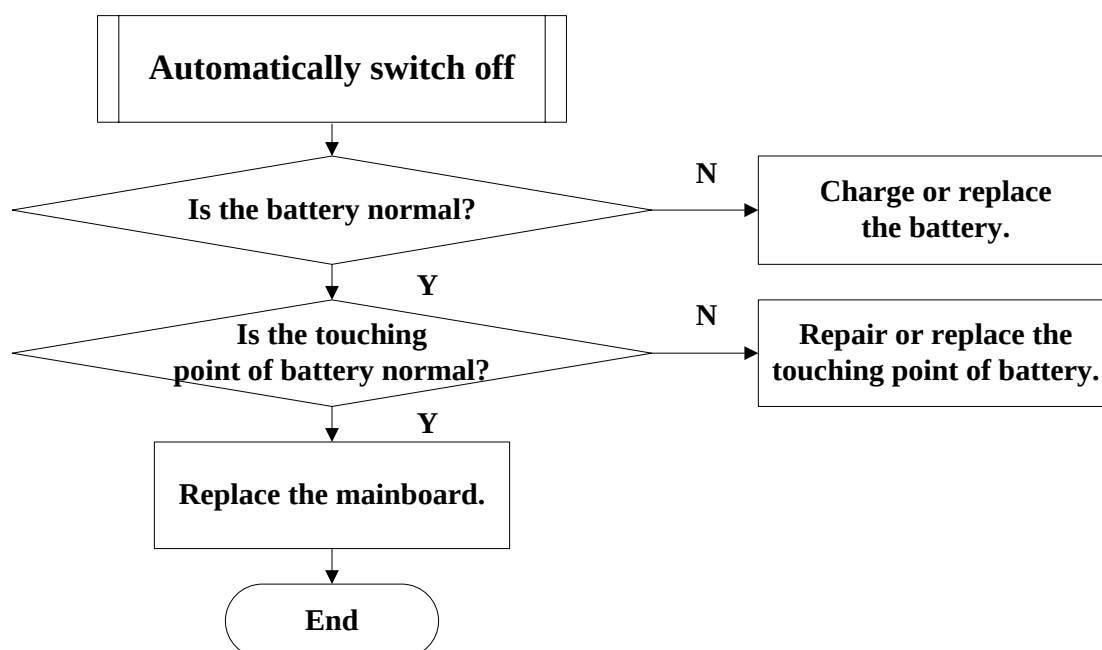
3.2 Hanging Up



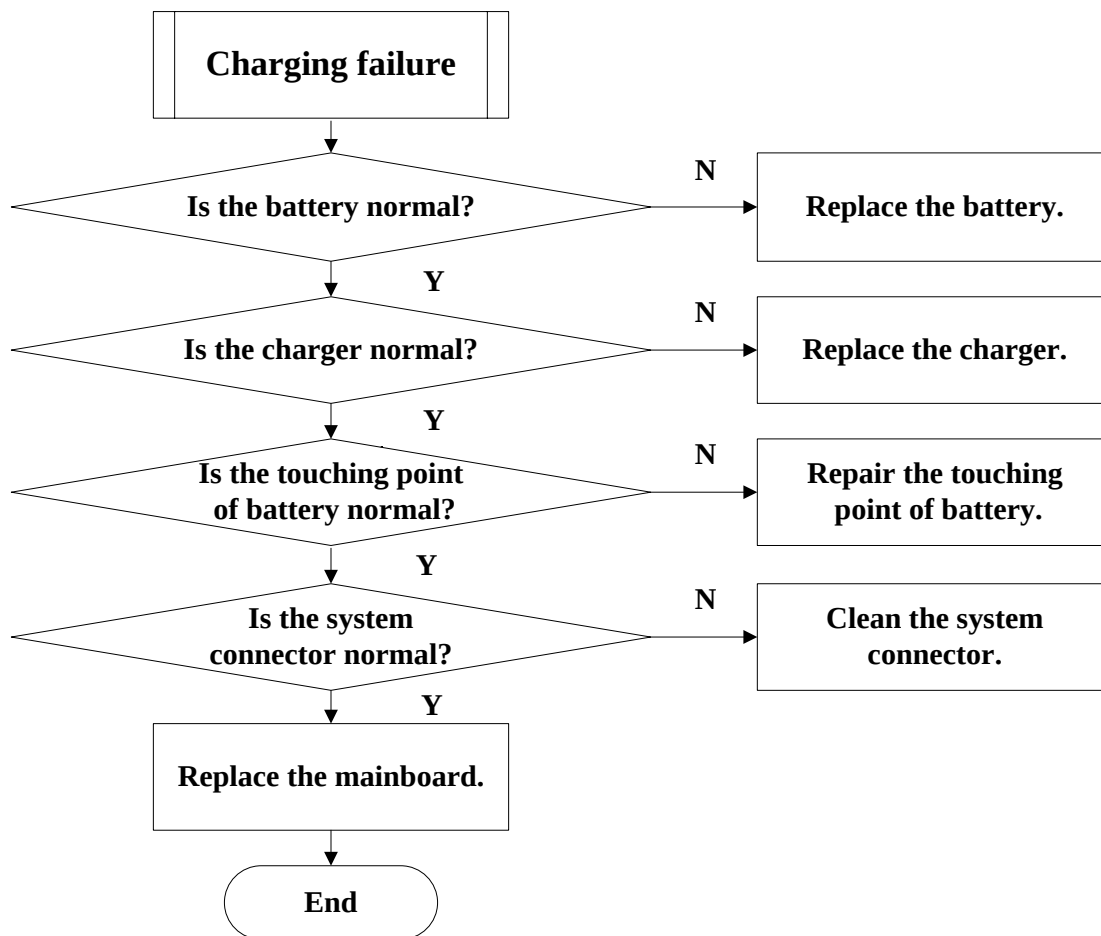
3.3 Switching On Failure



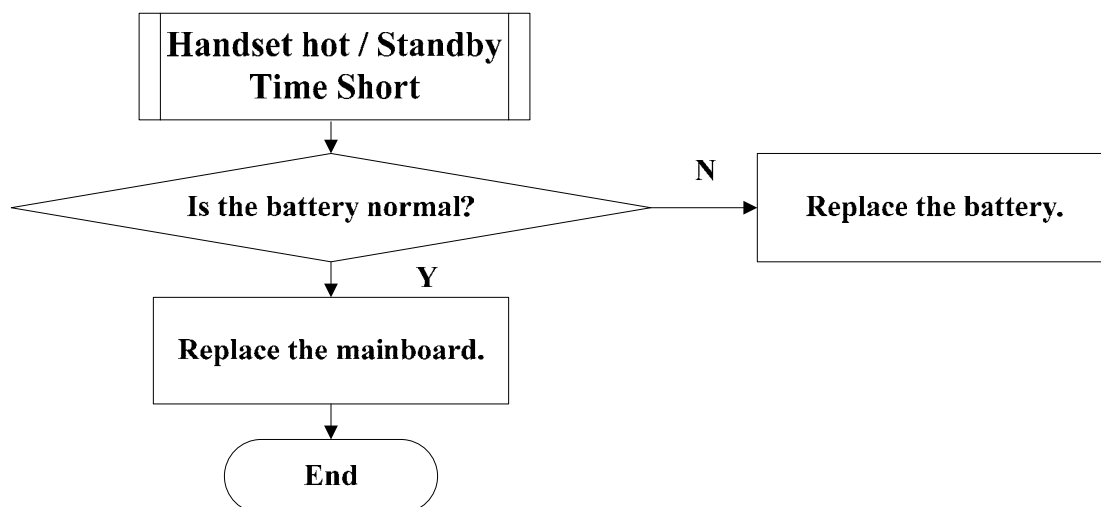
3.4 Automatically Switch Off



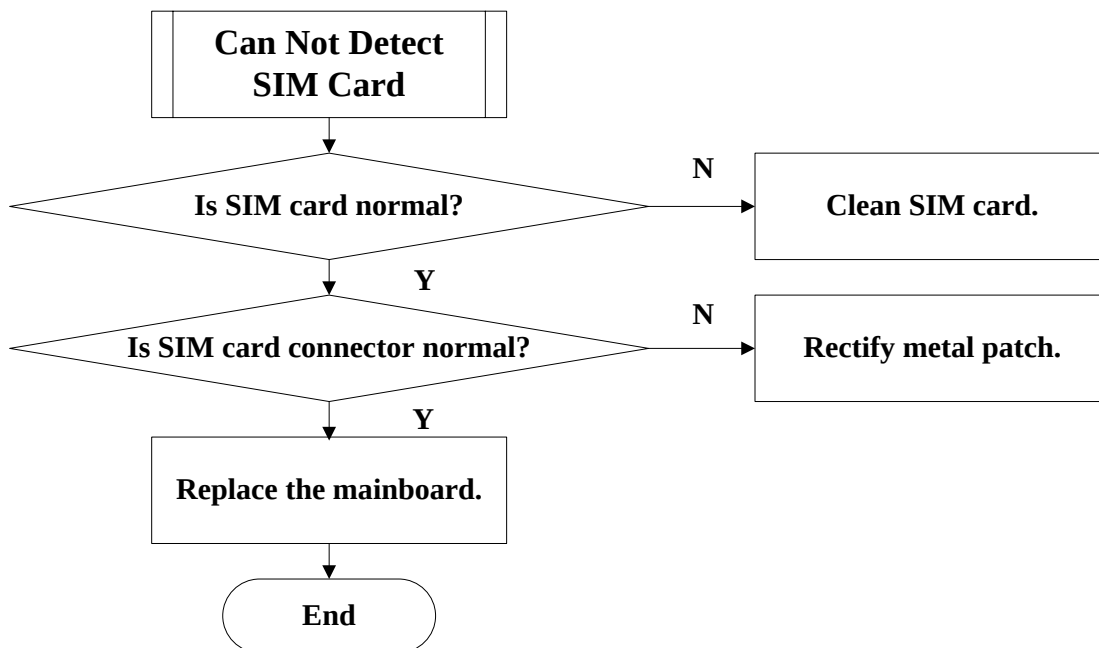
3.5 Charging Failure



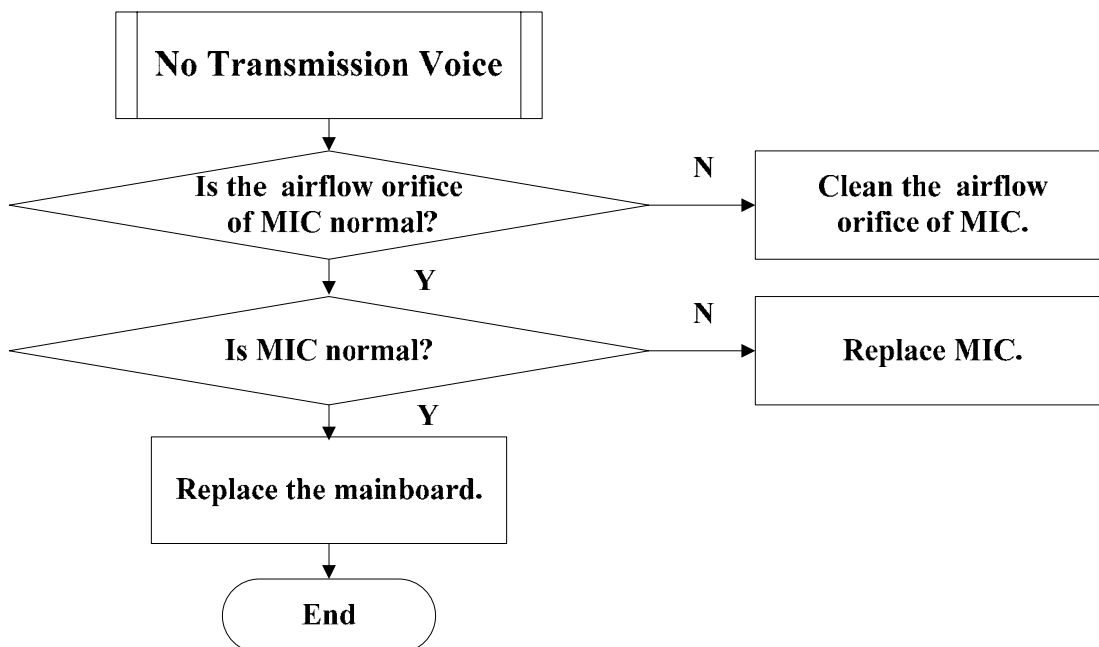
3.6 Handset Hot/Standby Time Short



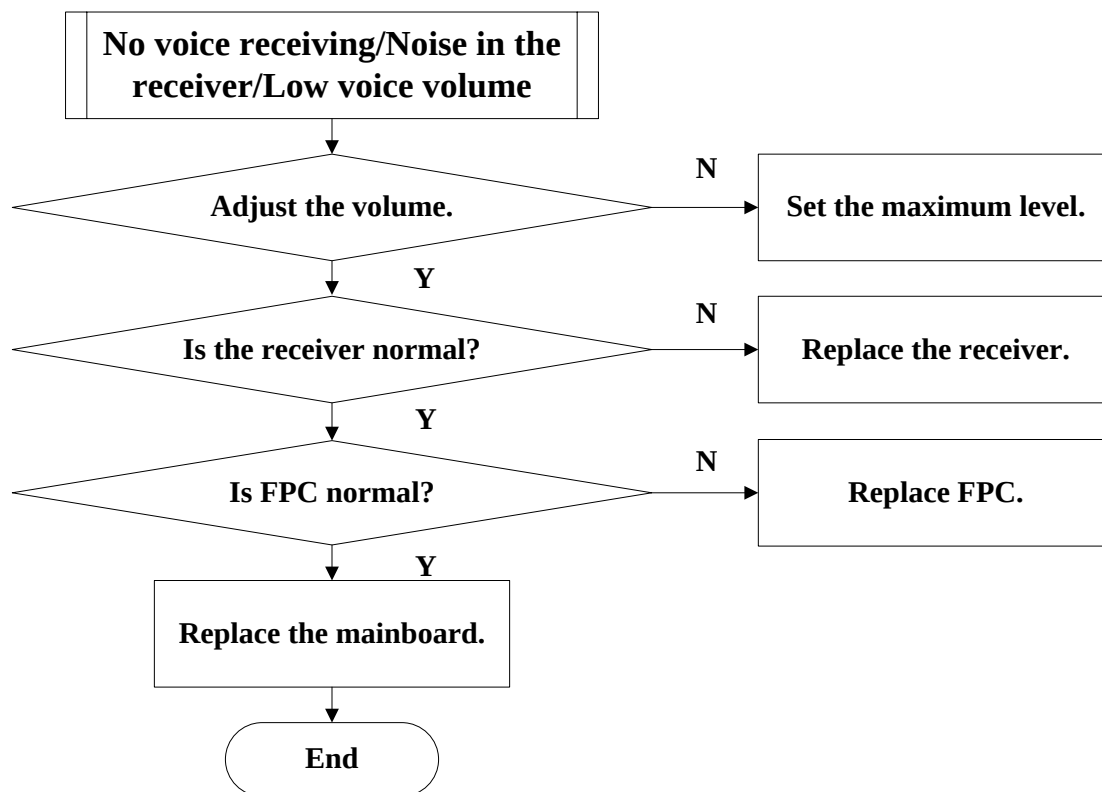
3.7 Can Not Detect SIM Card



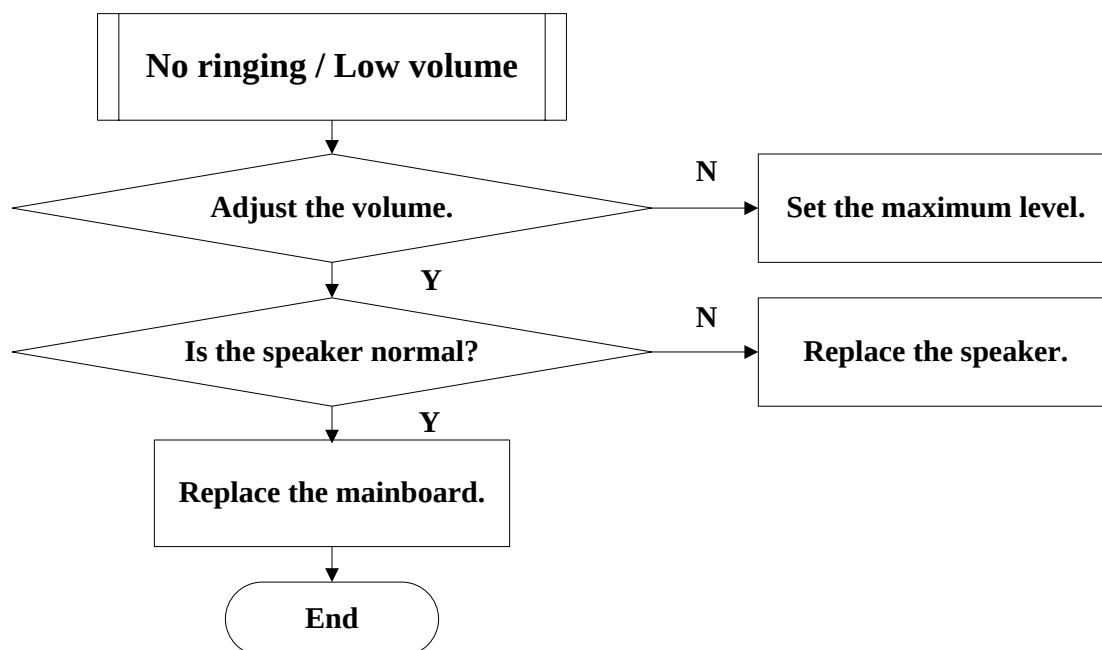
3.8 No Transmission Voice



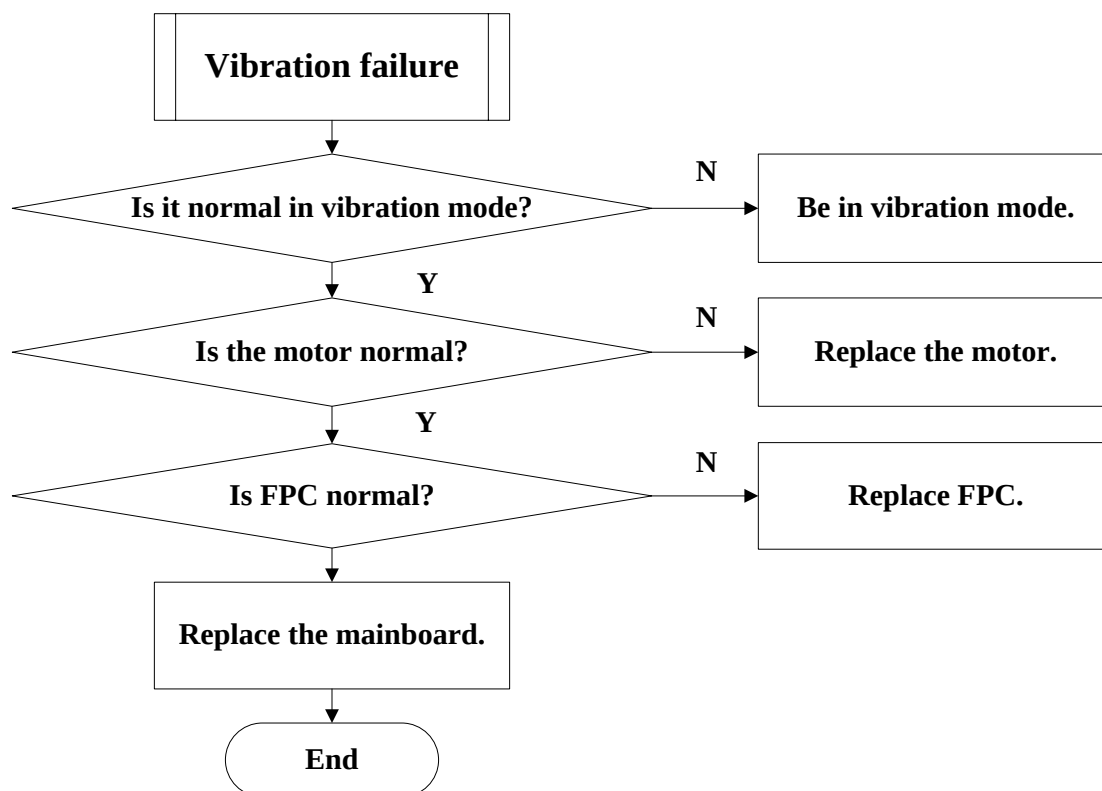
3.9 No voice receiving/Noise in the receiver/Low voice volume



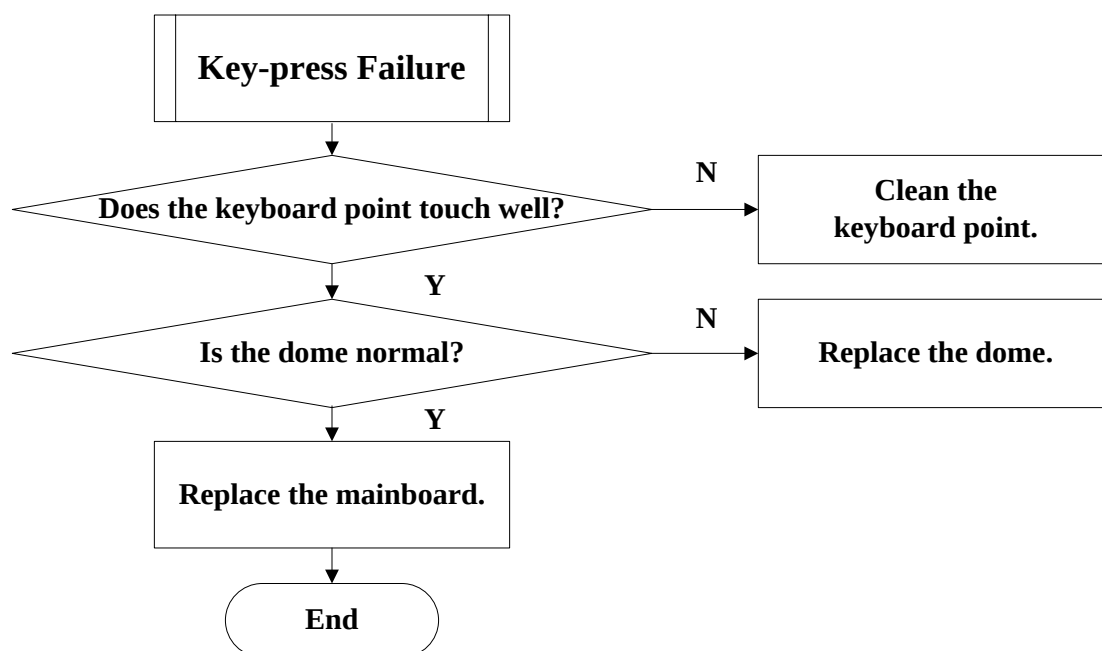
3.10 No ringing / Low volume



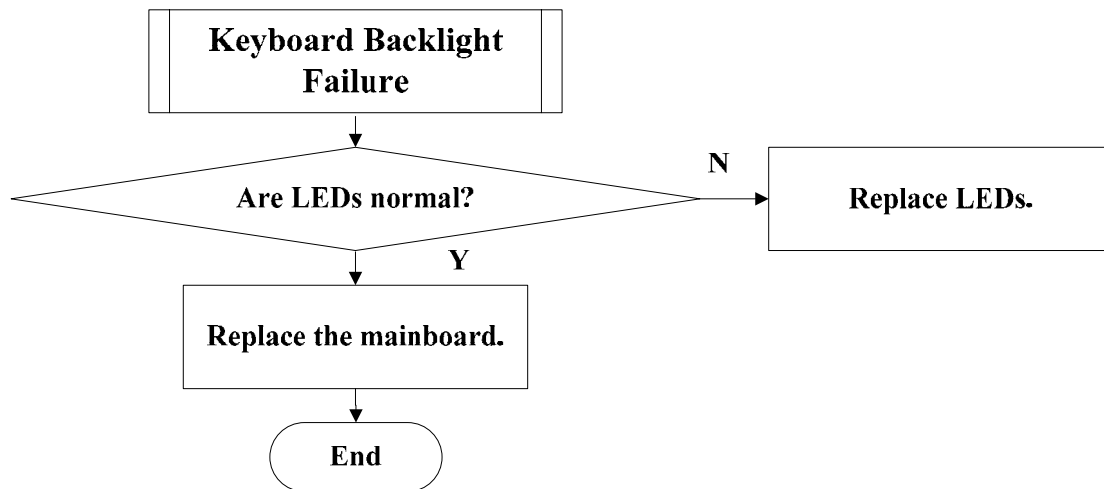
3.11 Vibration Failure



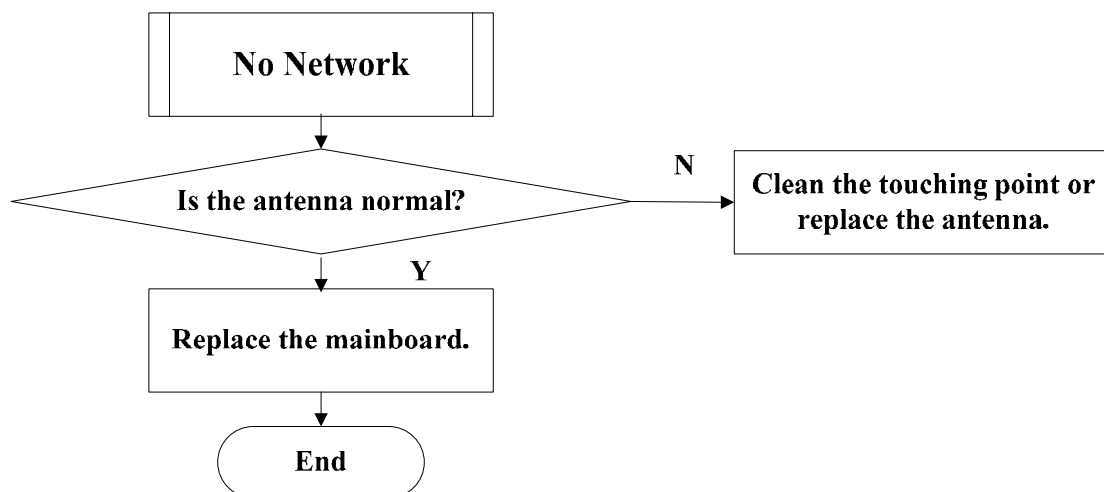
3.12 Key-press Failure



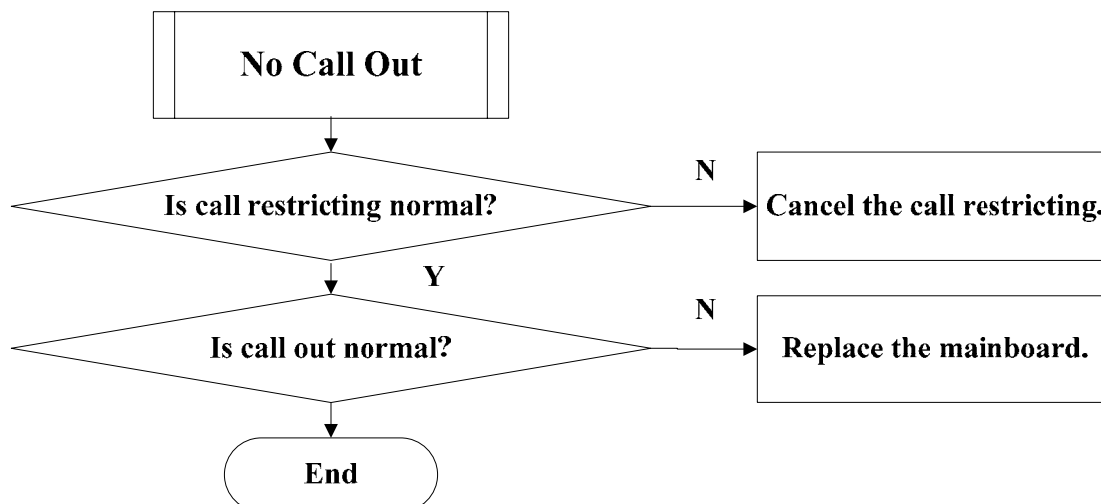
3.13 Keyboard Backlight Failure



3.14 No Network

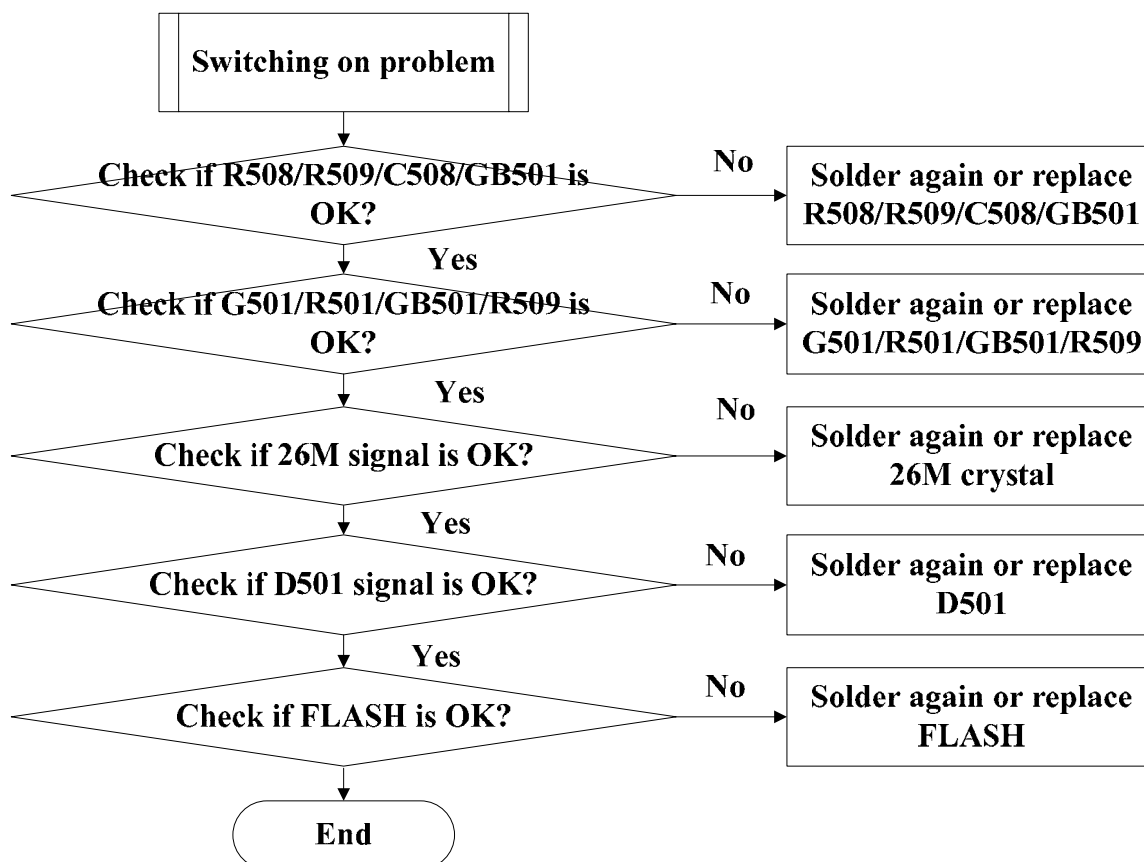


3.15 No Call Out

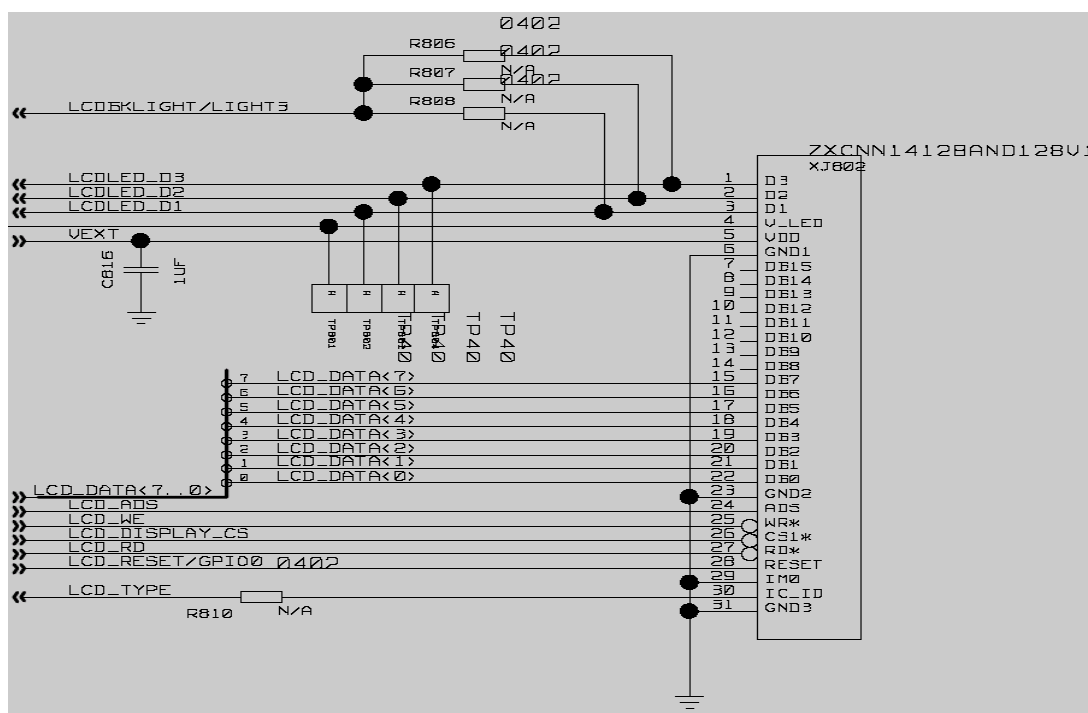
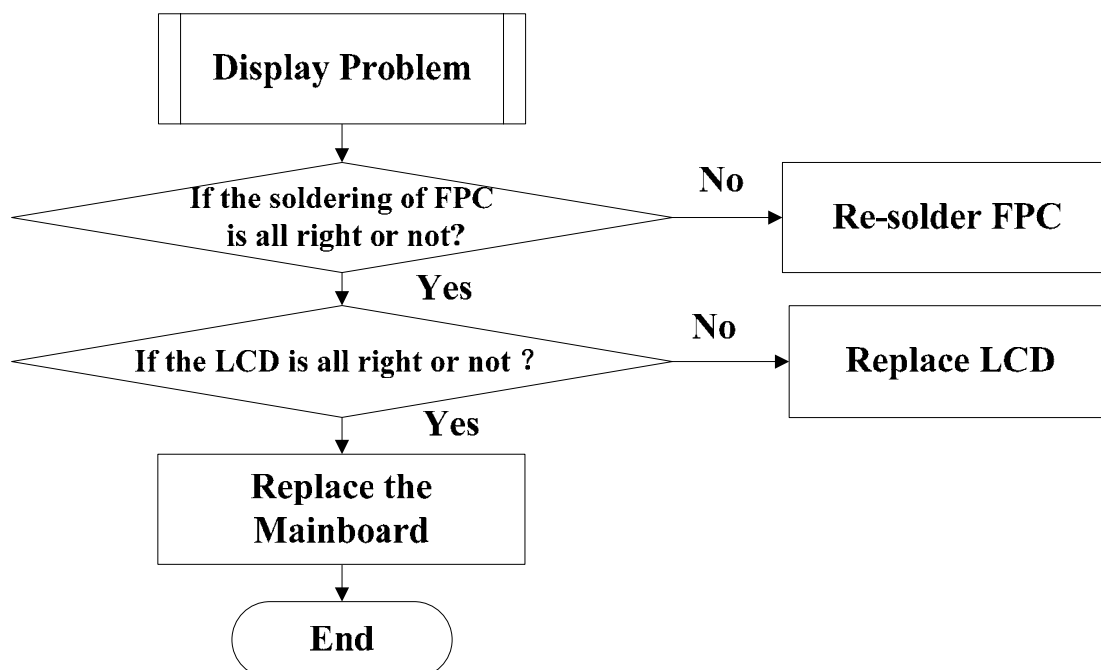


4. Basic flow chart of familiar troubleshooting (Level 2)

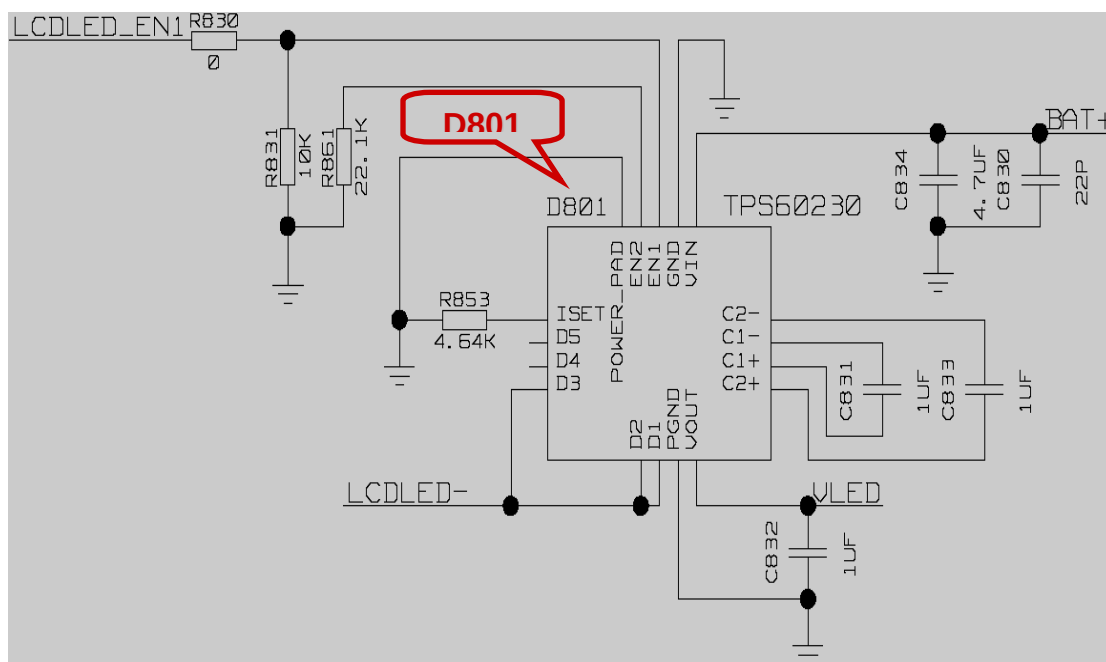
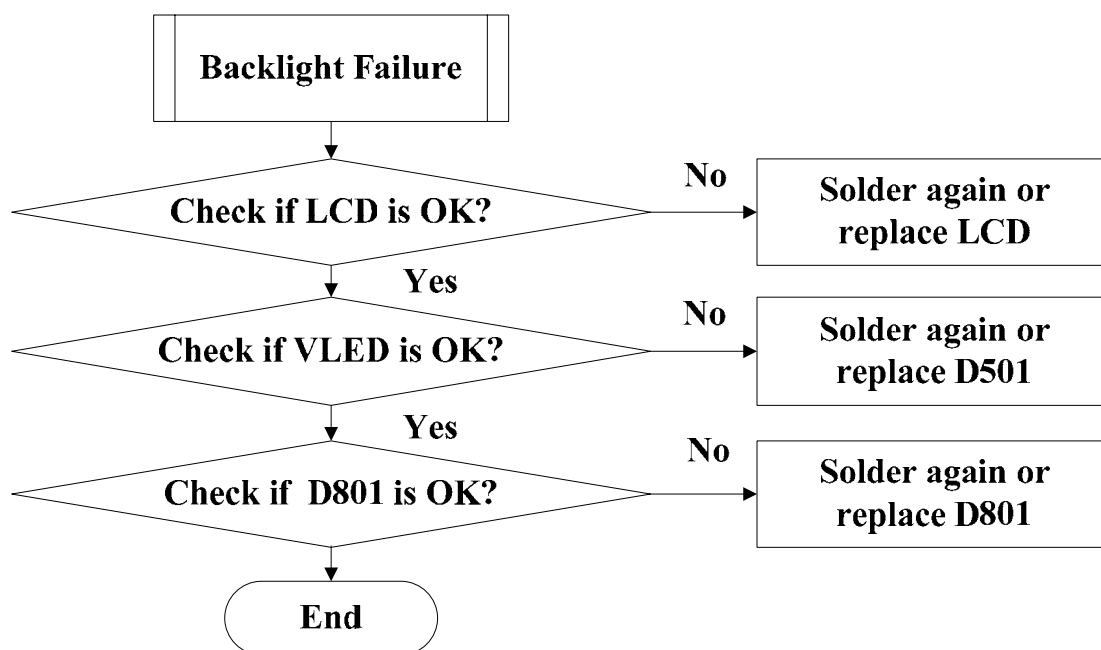
4.1 Switching On Failure



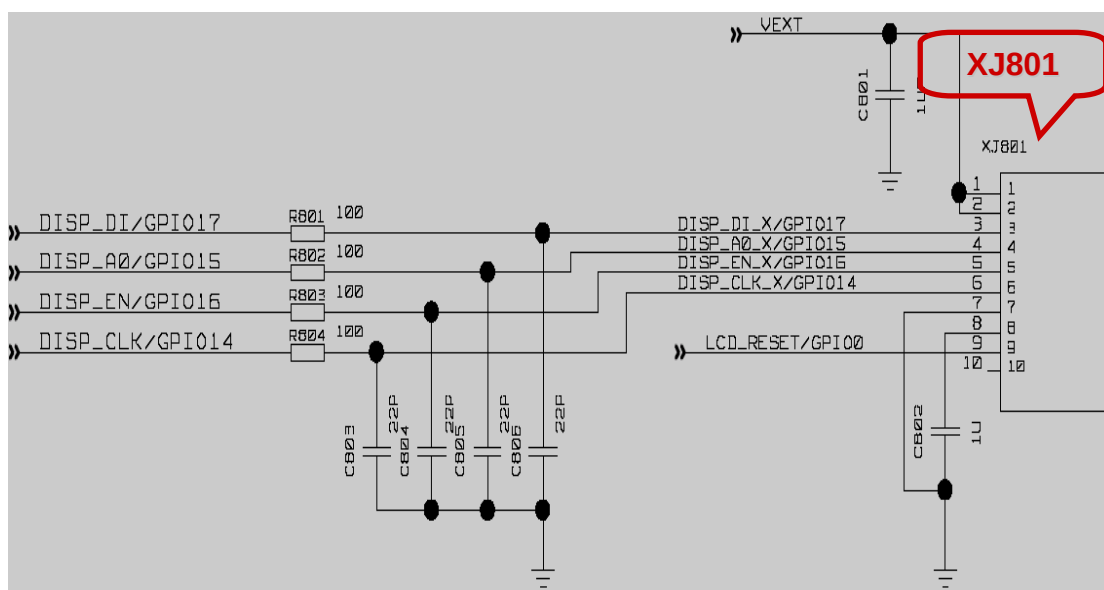
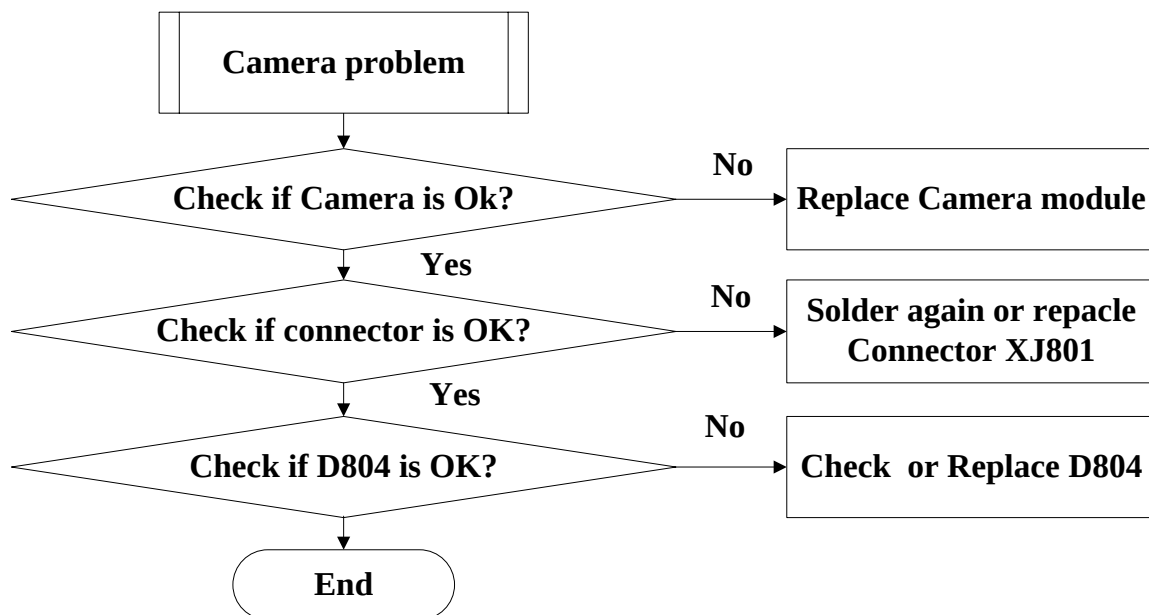
4.2 Display Failure



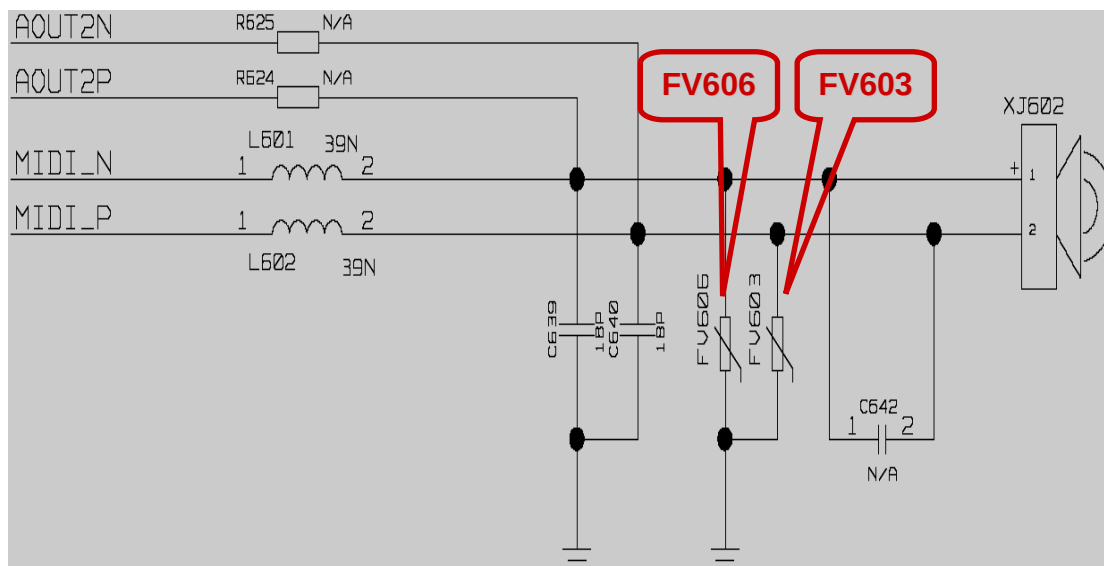
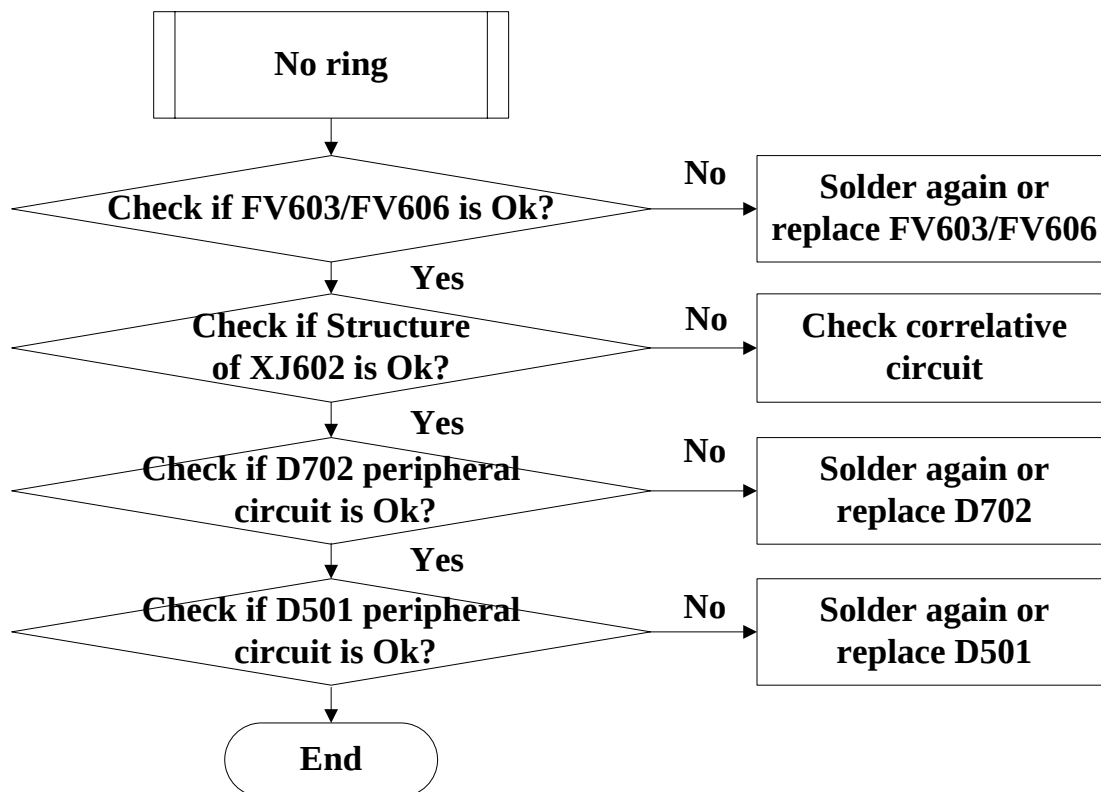
4.3 Backlight Failure

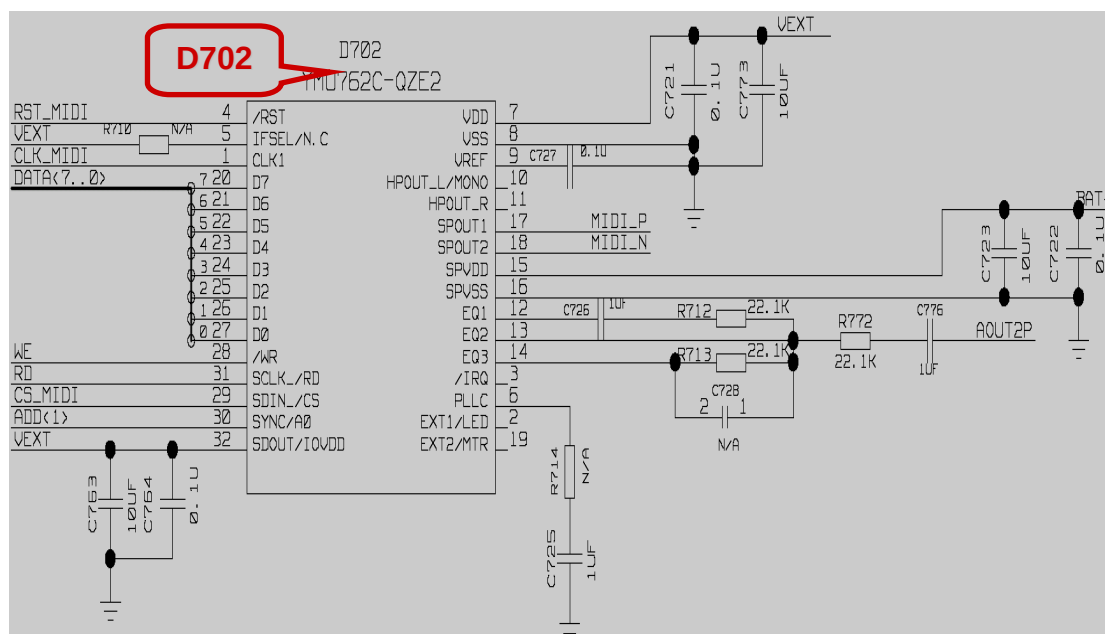
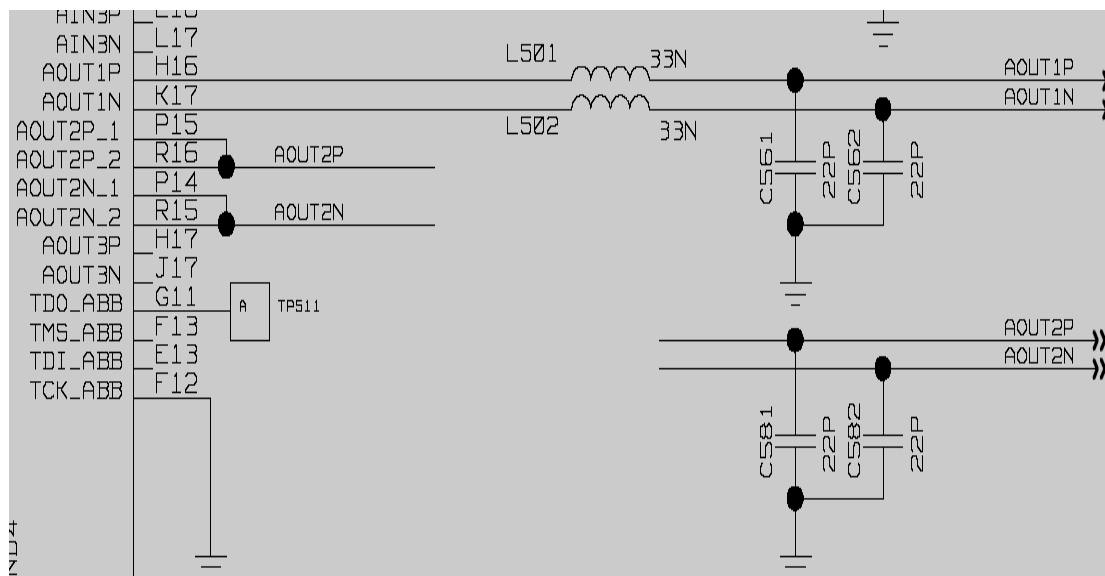


4.4 Camera Failure

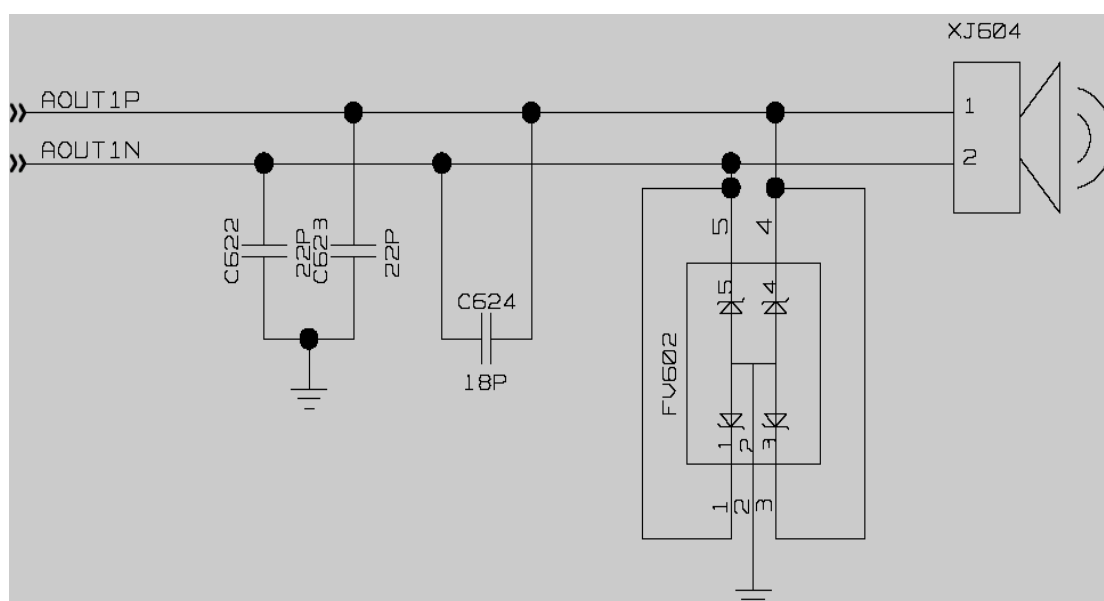
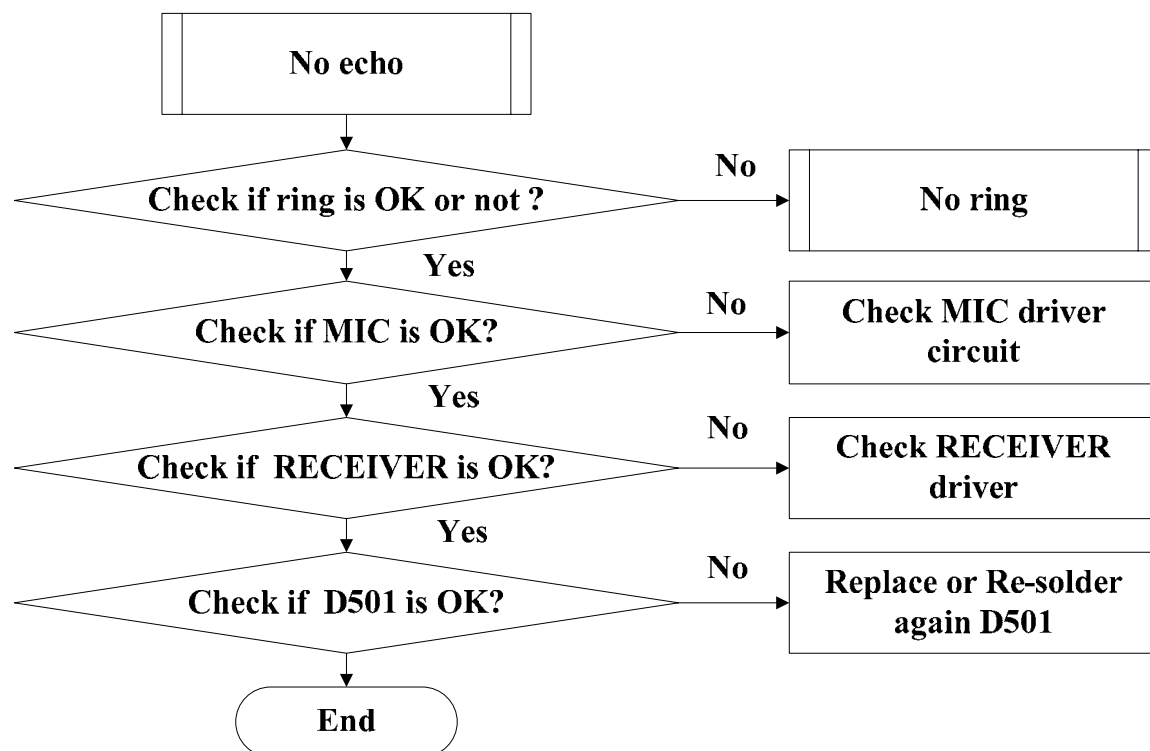


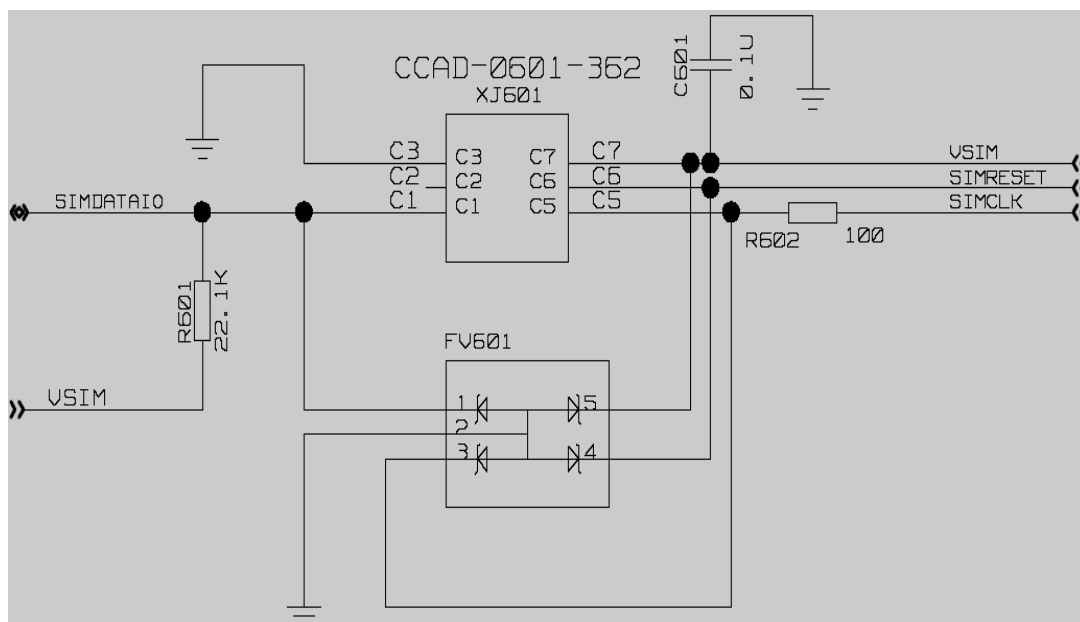
4.5 No Ring



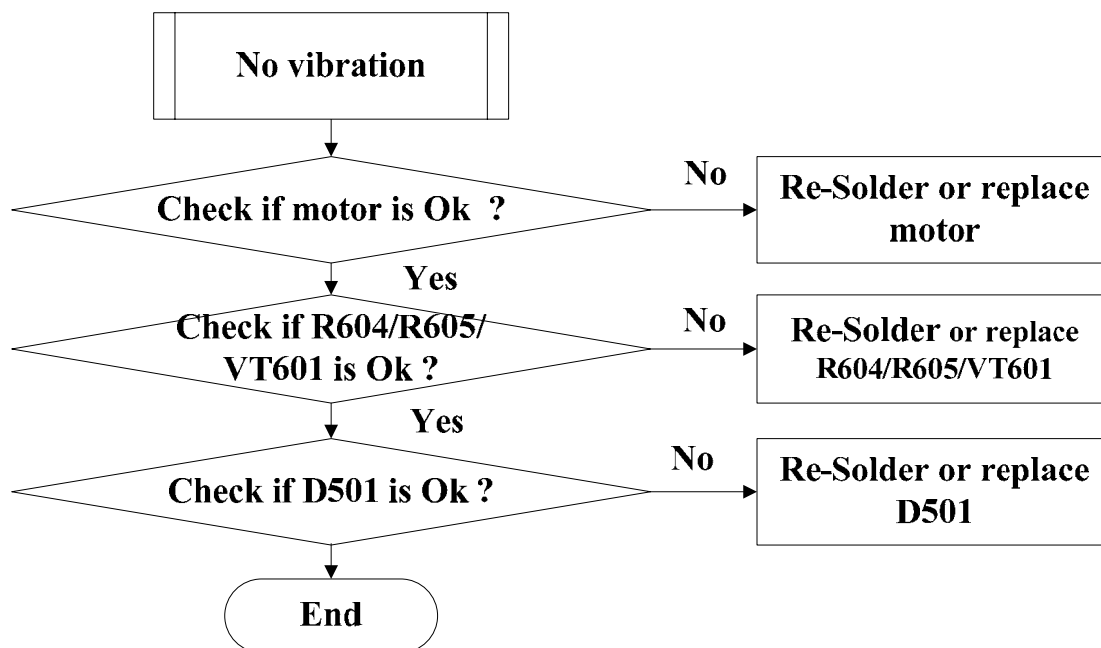


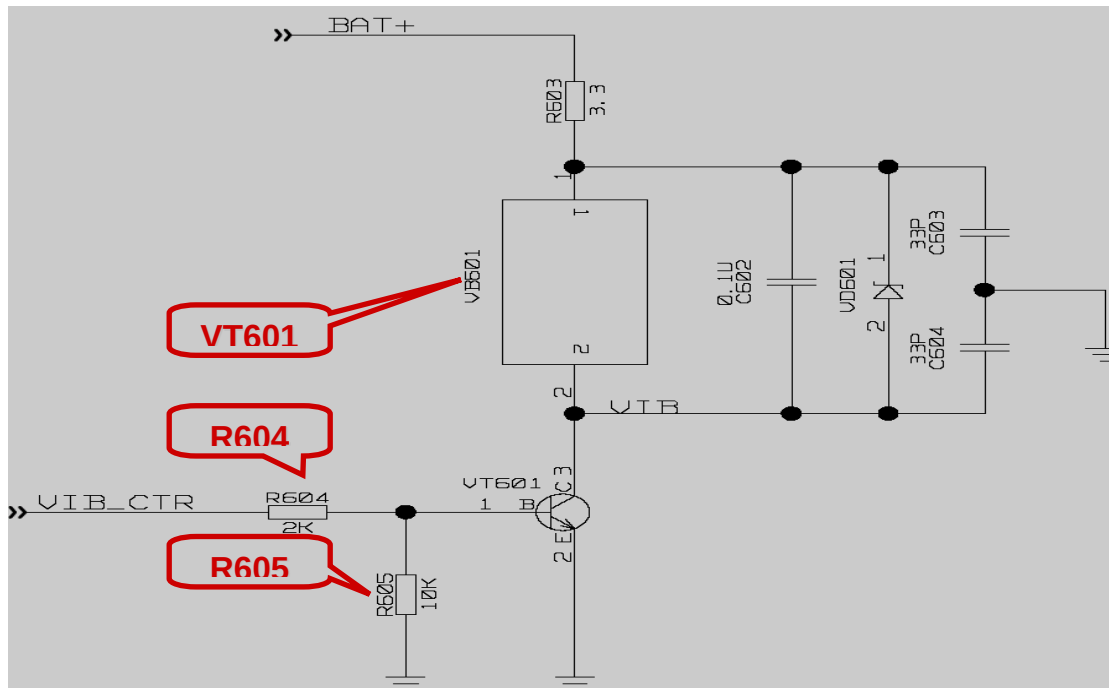
4.6 No Echo



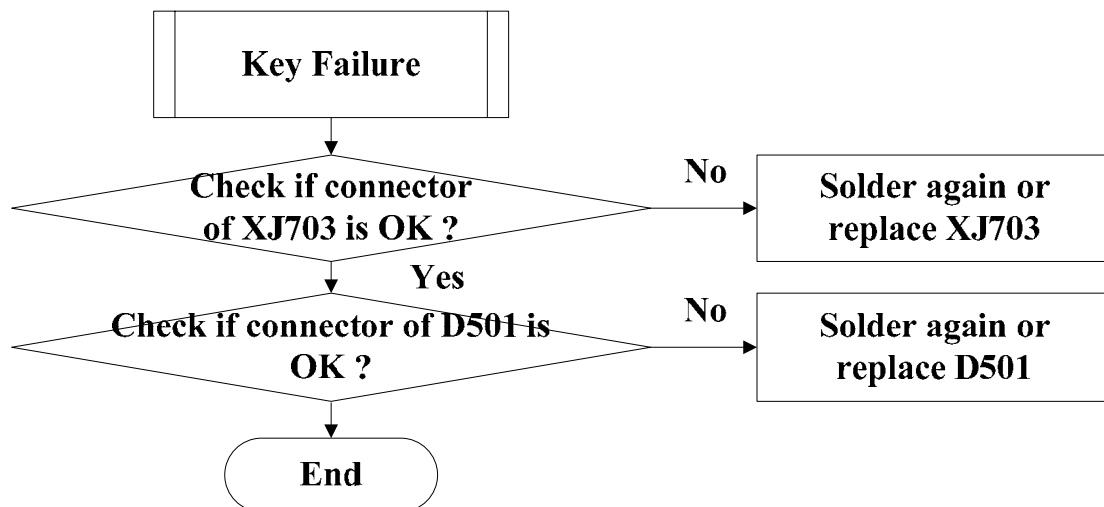


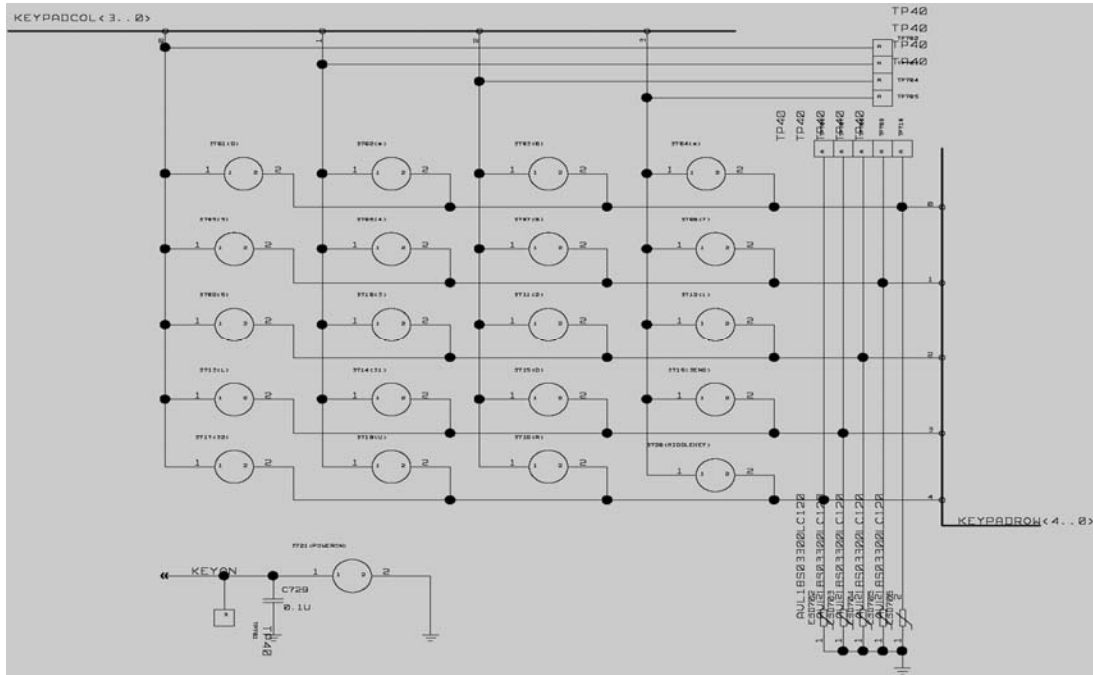
4.8 No Vibration



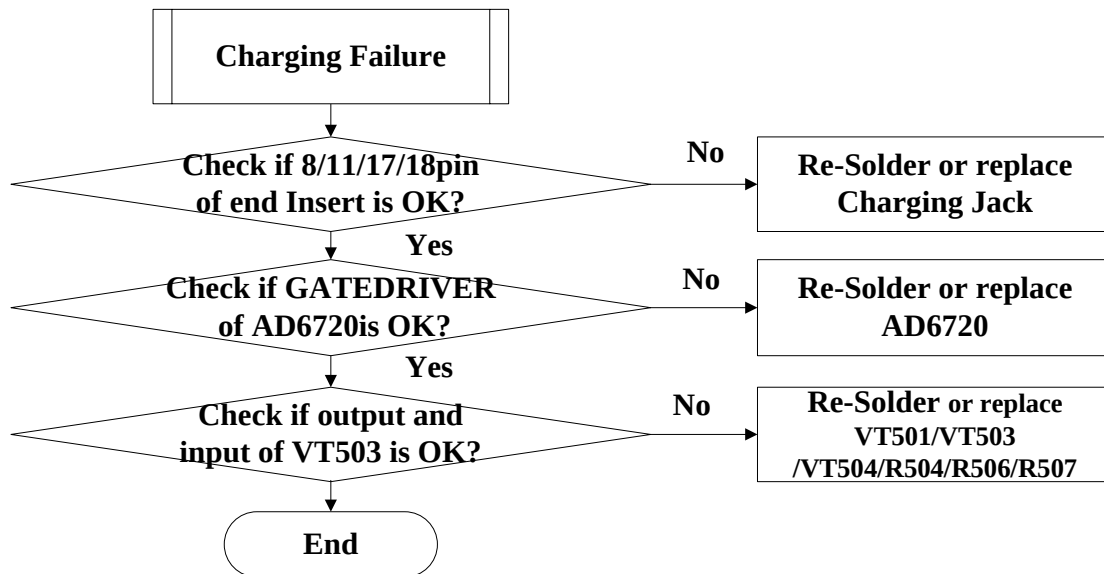


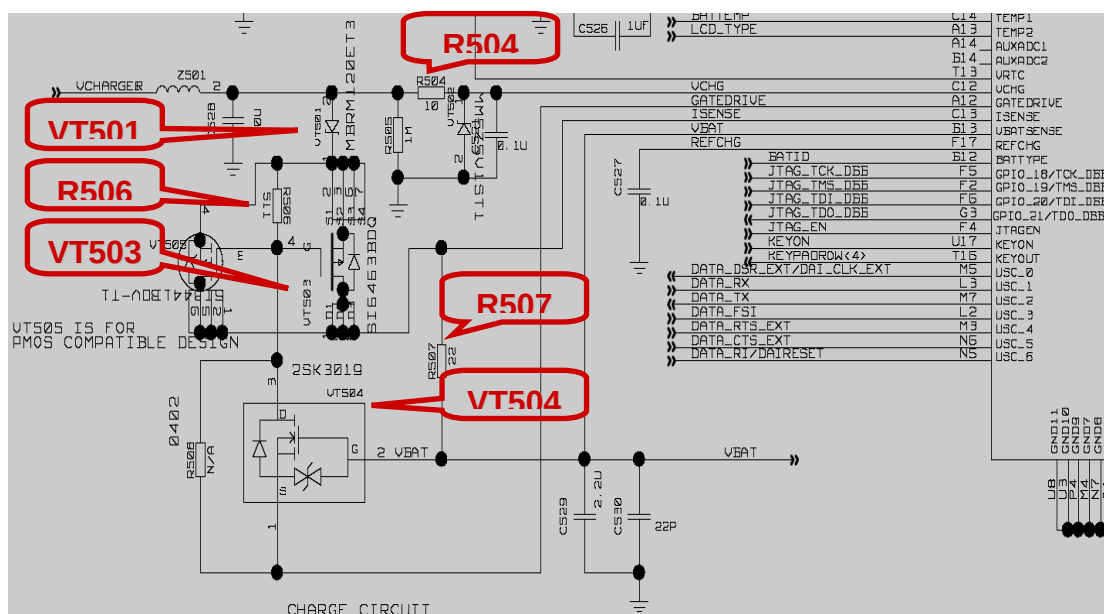
4.9 Key Failure



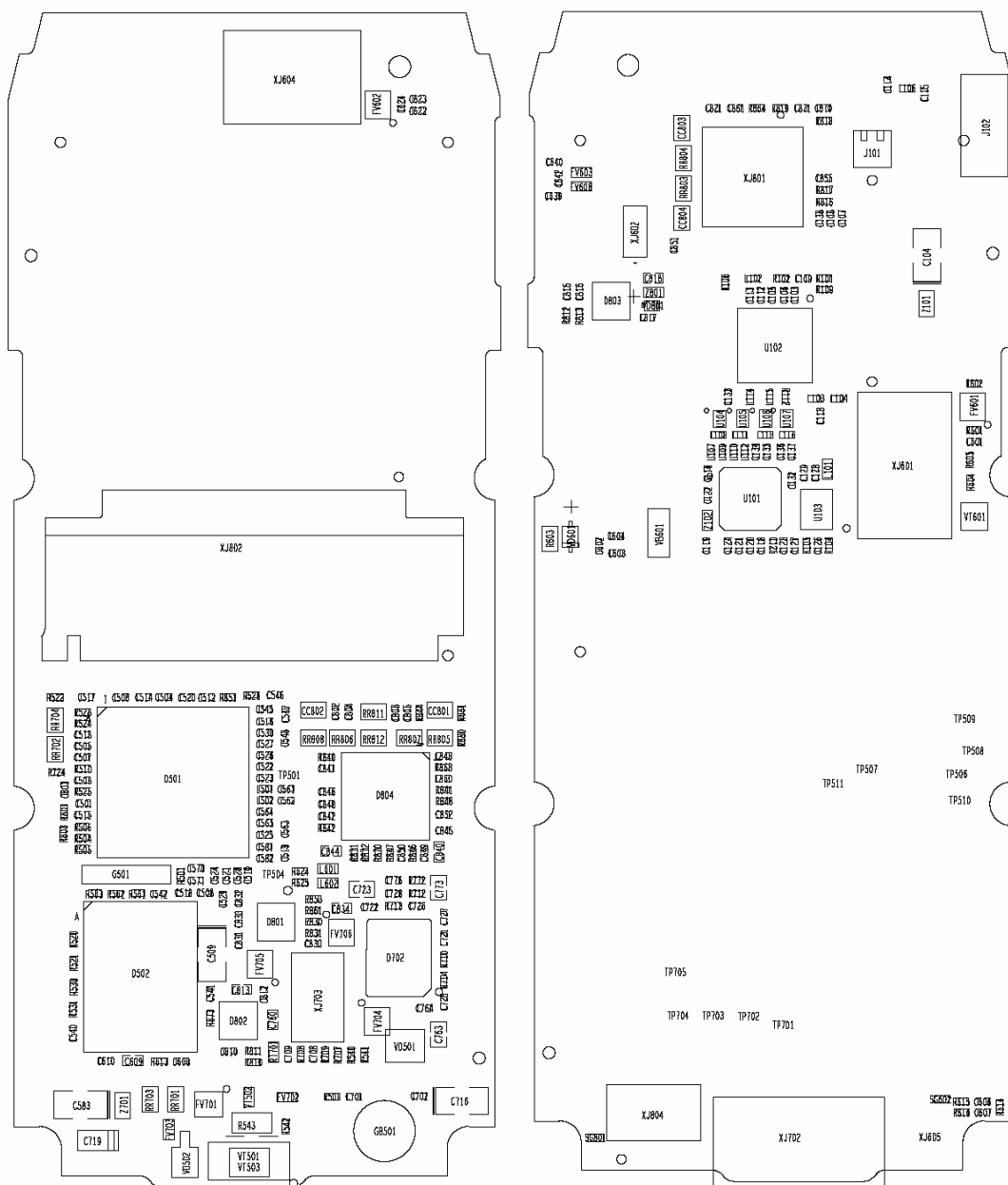


4.10 Charging Failure





5. Schematic



5	035070100032	Motor
6	035040400001	P300B Receiver
7	035040300038	4015 Contact Microphone
8	050603300004	P606 Camera Module
9	035030100158	1.5 CSTN LCD
10	IS011085	1710 speaker