

Service Manual (Level 1)

Total 24 pages

(Cover Included)

Approved _____

ZTE CORPORATION

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1. Product Summary

1.1 The Standard Fittings

No.	Name	Quantity
1	Handset	1
2	Li Battery	1
3	Charger	1
4	Earphone	1

1.2 Specification

- Network: CDMA
- Shape: Super thin bar type mobile phone
- Frequency range: TX 824 ~ 849MHz; RX 869 ~ 894MHz
- Dimensions: 45mm*105mm*13mm (antenna excluded)
- Weight: 80g
- Antenna: Inner antenna
- LCD: Single screen 1.5 inches, colorful film 96*64 dots
- Color: Black
- Battery: 670mAh Li Battery
- Continuous talk time: 2h – 4h
- Standby time: 80h – 160h



1.3 Main Functions

- LCD: Single screen 1.5 inches, colorful film 96*64 dots
- Directory: 200*3 groups
- Ring tone: 32 polyphone tones; 20 ring tones for incoming call, 6 ring tones for short message; support polyphone tones grouping

- Short message: 50 for Inbox / Outbox respectively; group sending with a limit of 10
- Call: Support call firewall
- Value-added business: BREW download and UTK
- Other: support earphone (selected) function, hand free function and inner vibration; Chinese, English, symbol and numerical method of inputting; calculator, alarm clock, calendar and game; standard USB data, charging interface

1.4 Inner and Outer Type Names

Inner Type	Outer Type
ZTEC330	C330

2. Inner Structure and Elements

2.1 Function Test

Basic Function Test

- ◆ Input ‘*983*0#’ command to enter test mode, test LCD→Ring tones→Motor→Keypad→Audio loop→Earphone→FM successively and then exit

Main Test Points

- ◆ Check LCD: check whether there are display defects, such as missing line, spot or abnormal display.
- ◆ Check ring tone & vibration: the volume of the ring tone and vibration should be normal. Strange voice or abnormal volume is not allowed.
- ◆ Check keyboard: 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 with the same strength.
- ◆ Check audio loop: puff towards MIC to hear the sound of “Sha sha” from the telephone receiver.
- ◆ Check earphone: insert earphone and puff towards MIC to hear the sound of “Sha sha” from the telephone receiver.
- ◆ Check FM: insert earphone and check FM. Abnormal volume is not allowed.
- ◆ Press ‘End’ key, and the handset will reset automatically.

2.2 Software Download

- ◆ Software download illumination

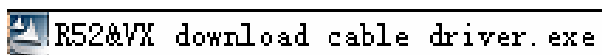
Each handset to be repaired should be upgraded to the latest version, that is, each repaired handset should be in the latest version.

- ◆ Download data cable

C330/C335 download cable (code: ISO13032)

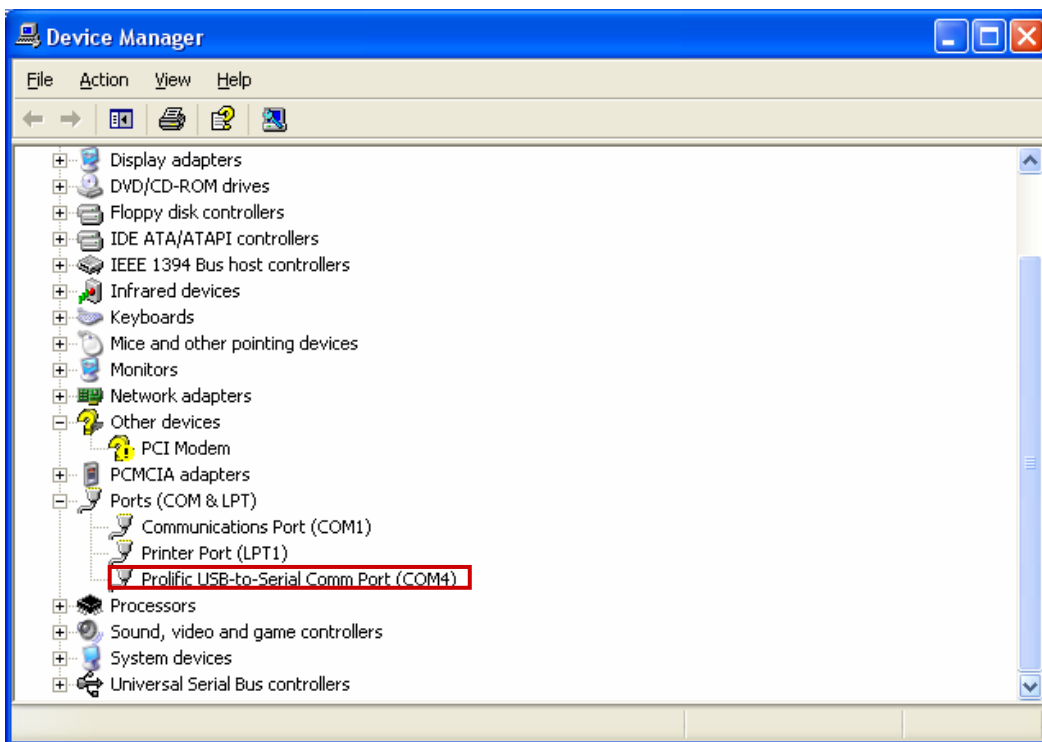


- ◆ Download cable driver

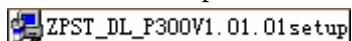


- ◆ Notice: Connect download cable with computer and enter into Device manager to check serial ports

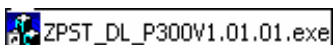
Checking route: My computer→Management→Device manager→Ports



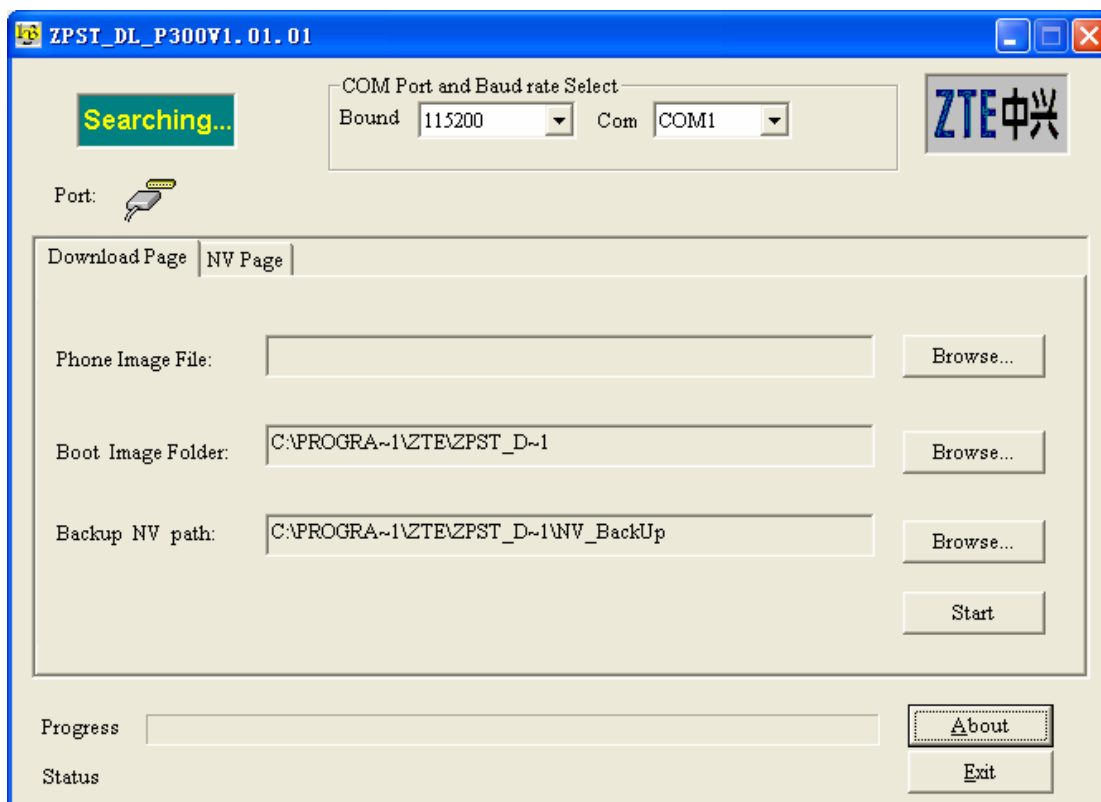
- ◆ Install download platform: ZPST_DL_P300V1.01.01setup



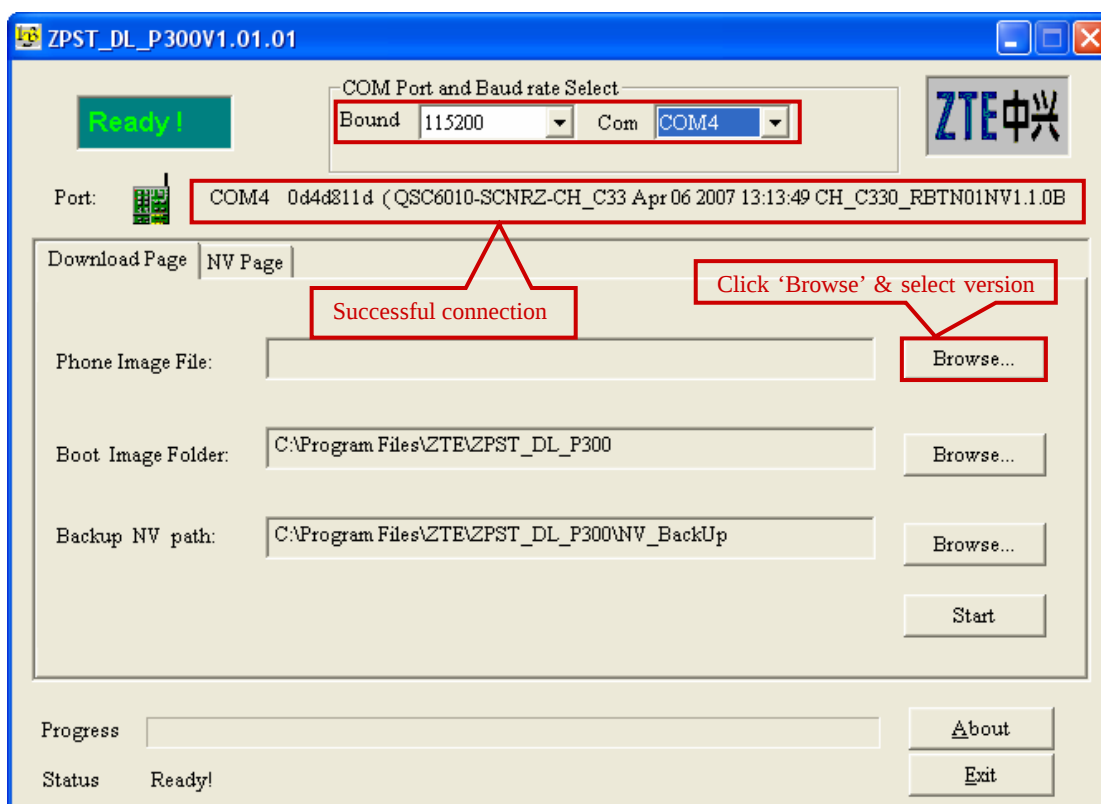
- ◆ Double-click shortcut icon after successful installation



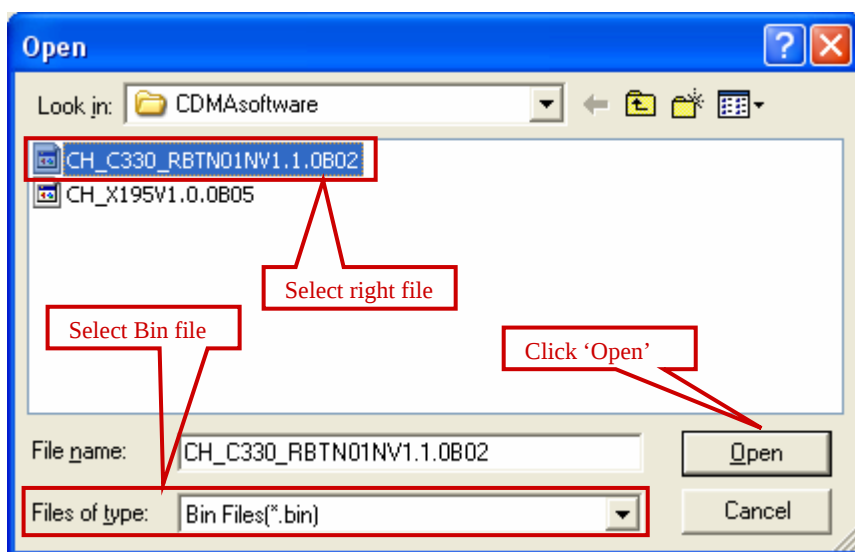
- ◆ The main interface as follow



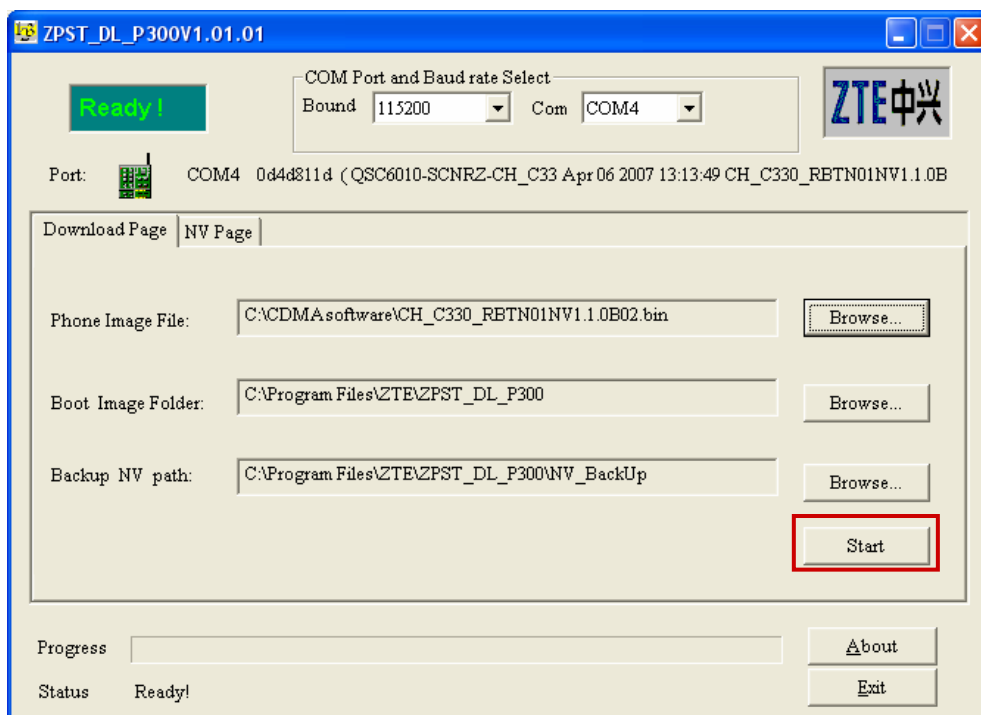
- ◆ Select Bound 115200
- ◆ Select right serial port



- ◆ Select right version



- ◆ Click 'Start' and begin to download



◆ Downloading

Running...

COM Port and Baud rate Select
Bound Com

Port: COM4 0d4d811d (QSC6010-SCNRZ-CH_C33 Apr 06 2007 13:13:49 CH_C330_RBTN01NV1.1.0B)

Download Page | NV Page |

Phone Image File:

Boot Image Folder:

Backup NV path:

Progress

Status Start download file, please wait ...

Progress

Status Download the image file complete! Reseting.....

Progress

Status Searching handset.....

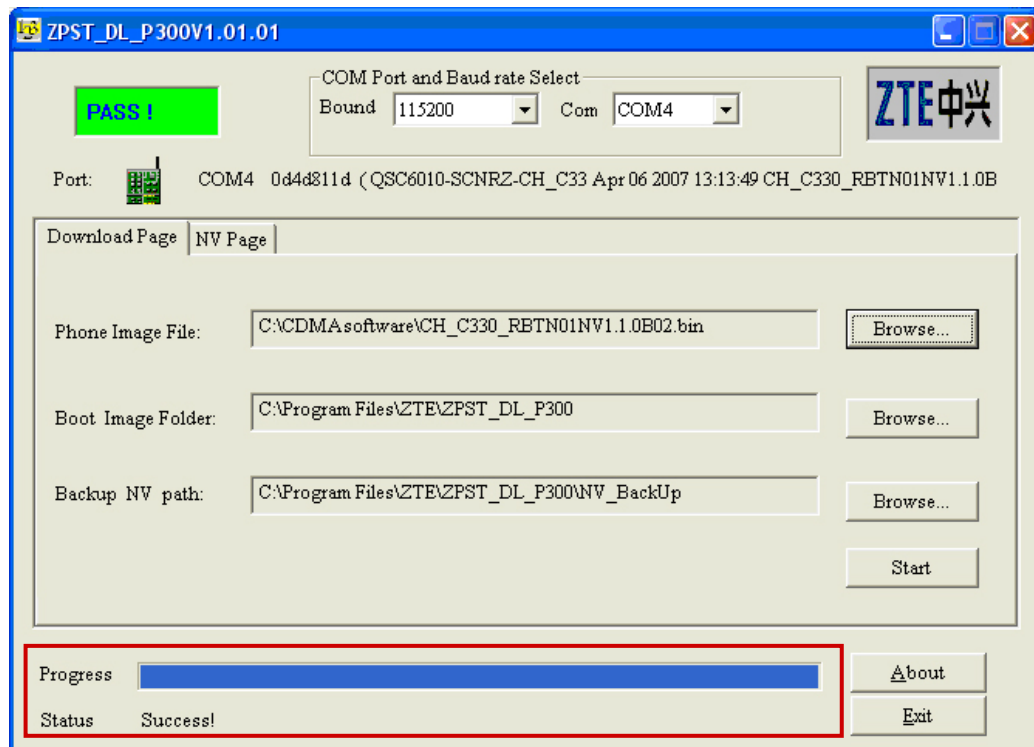
Progress

Status Restore NV item ...

Progress

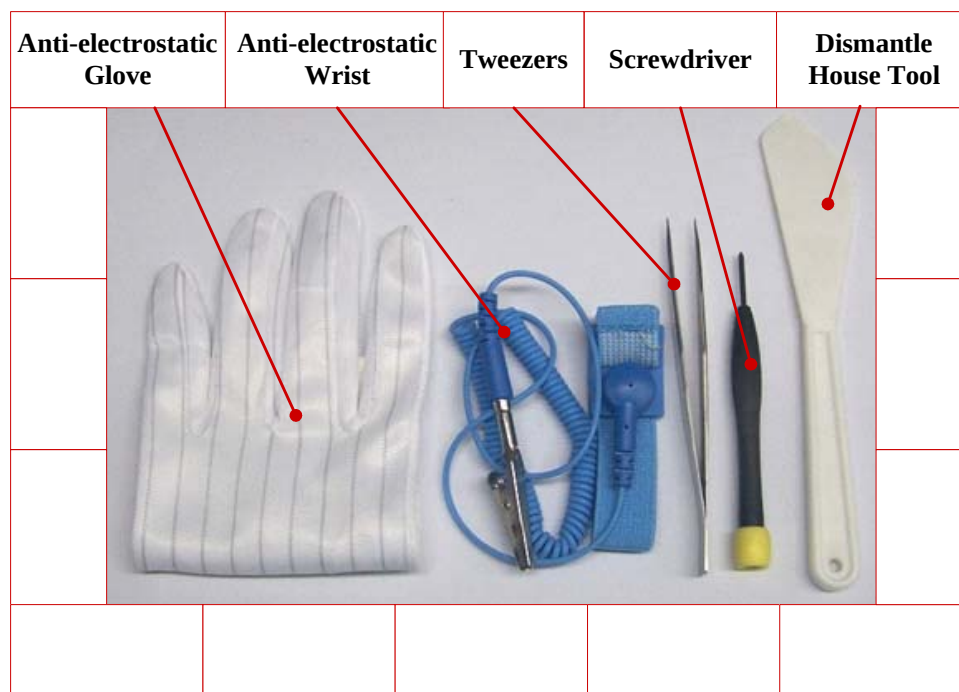
Status Reset handset.....

◆ Download success

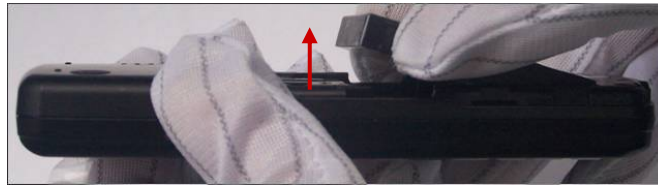


2.3 Disassembly Flow

◆ Tools



- ◆ Take out the battery. Pay attention to the positions of connecting points.



- ◆ Pay attention to the positions of four screws.



- ◆ Separate the front and back covers with dismantle house tool.
- ◆ Pay attention to the positions of the locks.

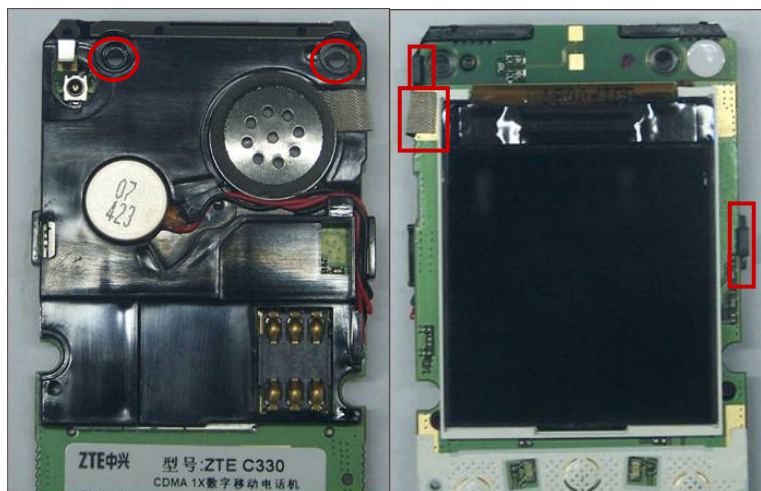




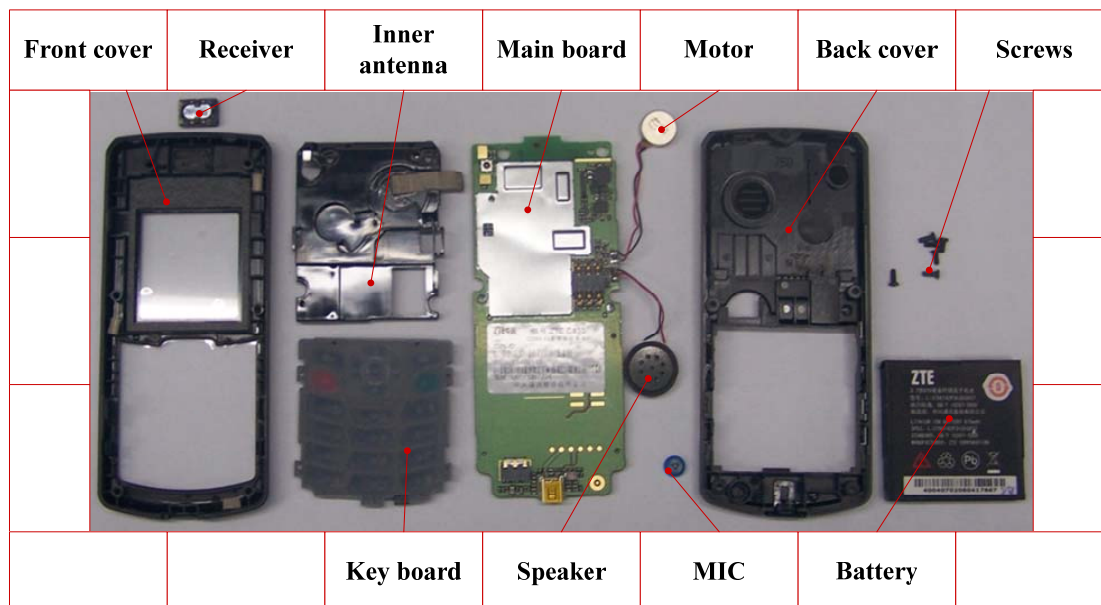
- ◆ The front and back covers after separating
- ◆ Notice: Three points of MIC face to the top
- ◆ Pay attention to the installation position of receiver and key board.



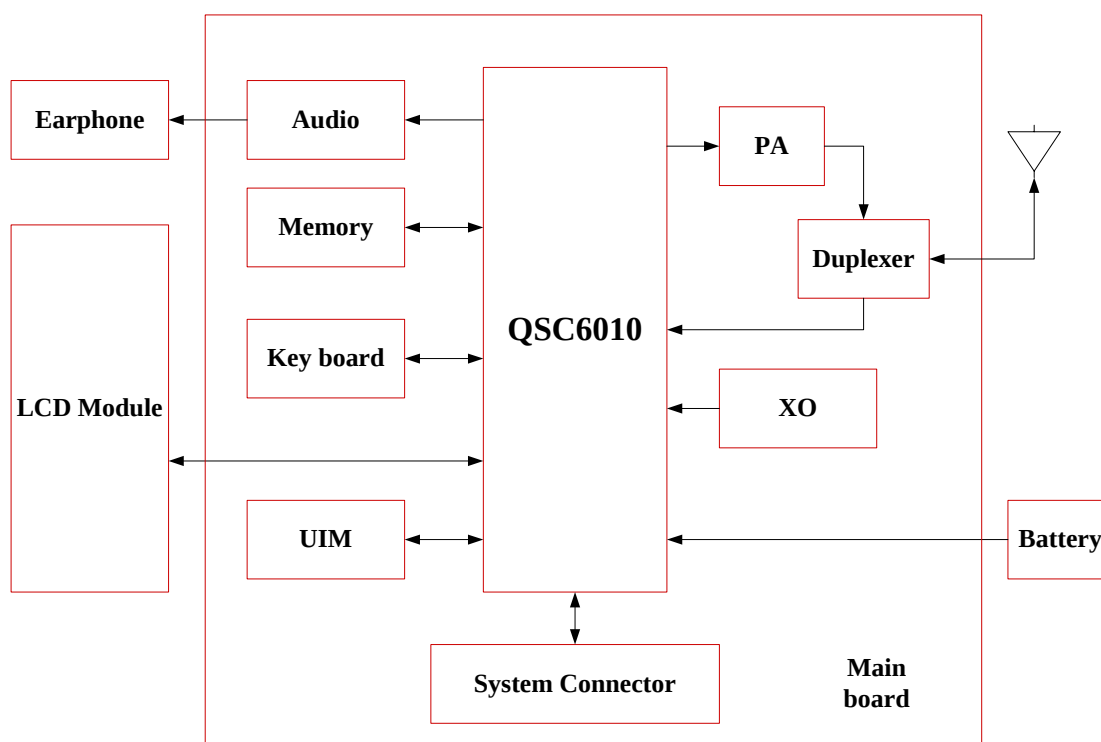
- ◆ Pay attention to the position of two screws on the antenna holder.
- ◆ Pay attention to the position of insulating tape.



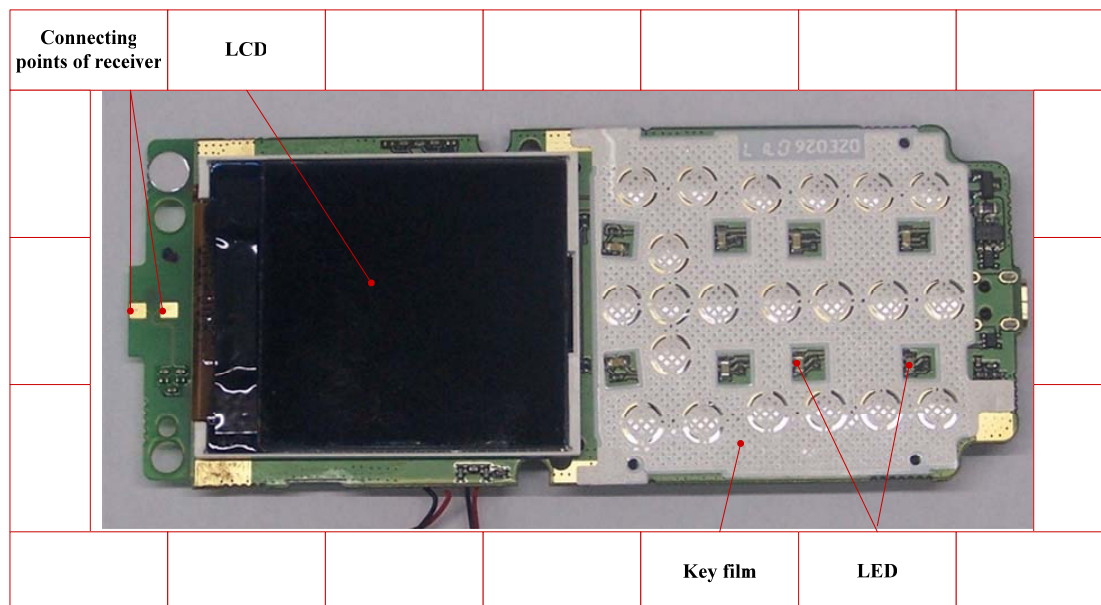
2.4 Composing



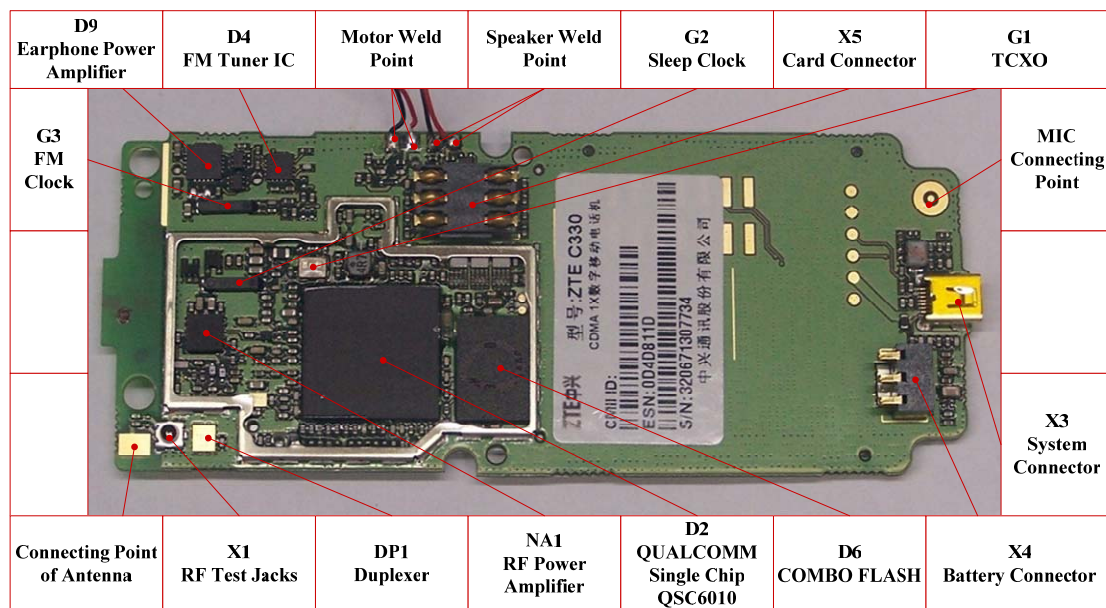
2.5 Block Diagram



2.6 Basic Device Distributing



MB Top Distributing



MB Bottom Distributing

2.7 Main Test Points

Name	Voltage	Test Points	Function
VREG_TCXO	2.85V	C19	Power supply for TCXO of RF circuit
VREG_RFRX	2.6V	C21	Power supply for the front RX
VREG_RFTX	2.6V	C38	Power supply for TX circuit
VREG_RUIM	3V	C18	Power supply for UIM card
VREG_MSMP	2.6V	C32	Power supply for the outer equipment
VREG_MSME1	2.9V	C33	Power supply for BUS
VREG_MSME2	2.9V	C23	Power supply for BUS
VREG_MSMA	2.6V	C37	Power supply for analog circuit of the baseband
VREG_MSMC	1.2V	C40	Power supply for CPU

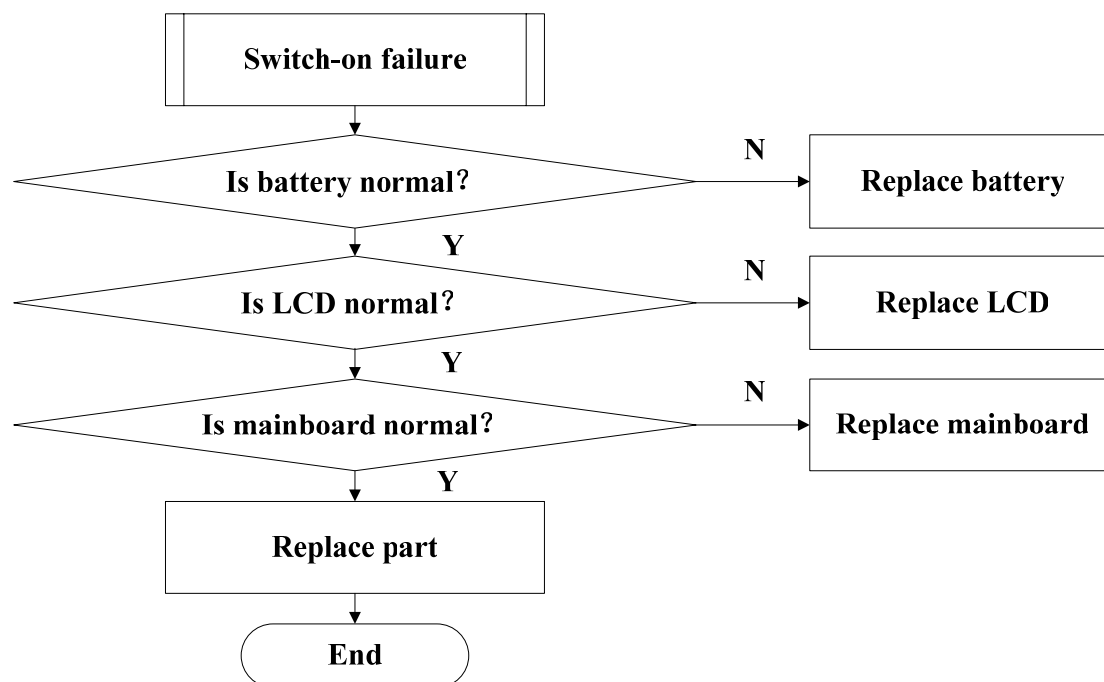


3. Basic flow chart of familiar troubleshooting (Level 1)

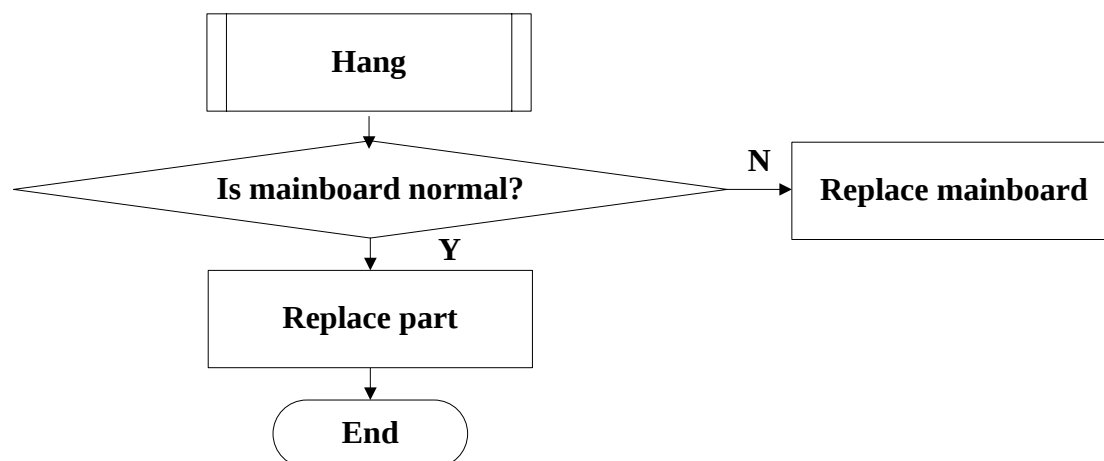
3.1 Outer Parts Failure

Outer parts failure according to the dismantling flow.

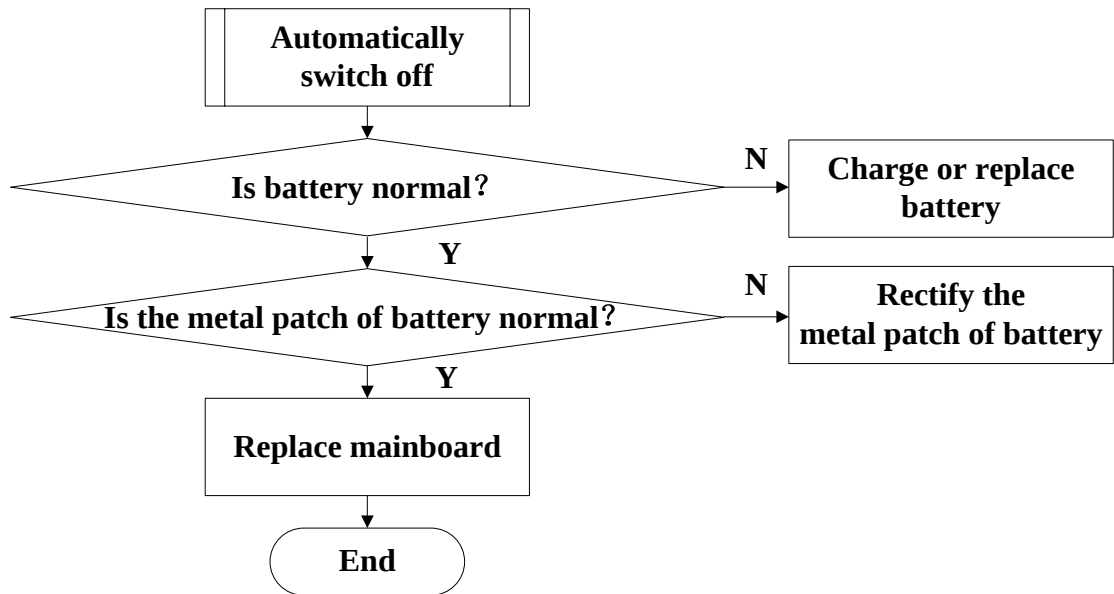
3.2 Switch-on Failure



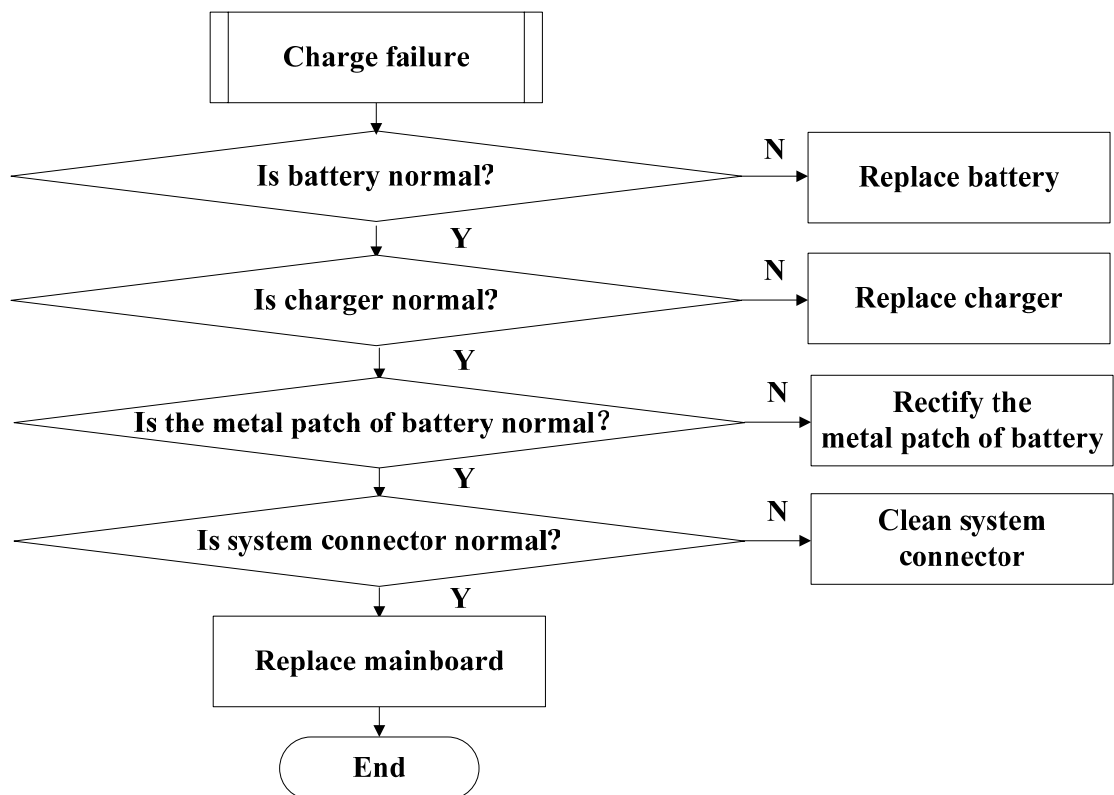
3.3 Hang



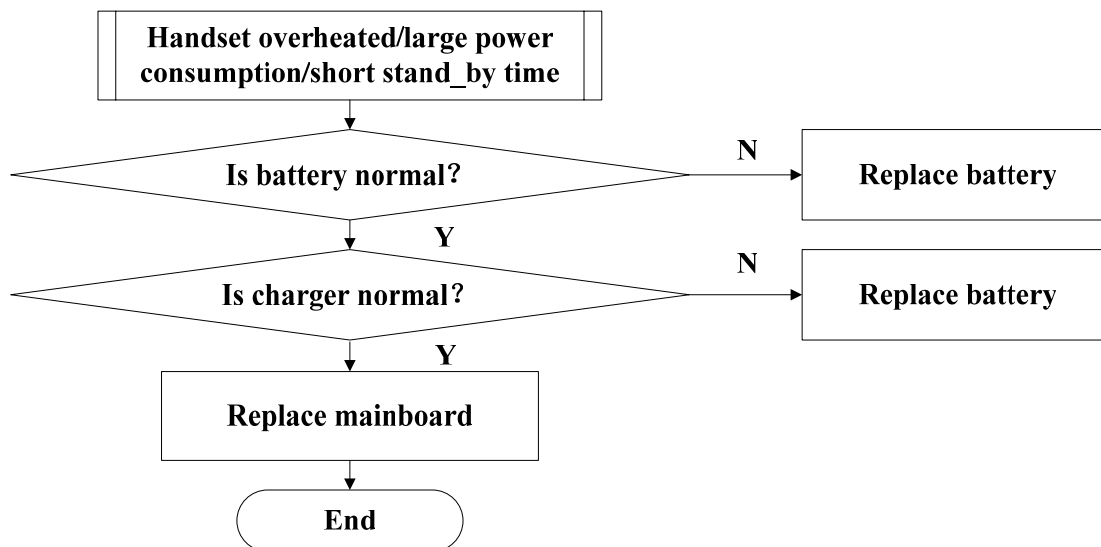
3.4 Automatically Switch Off



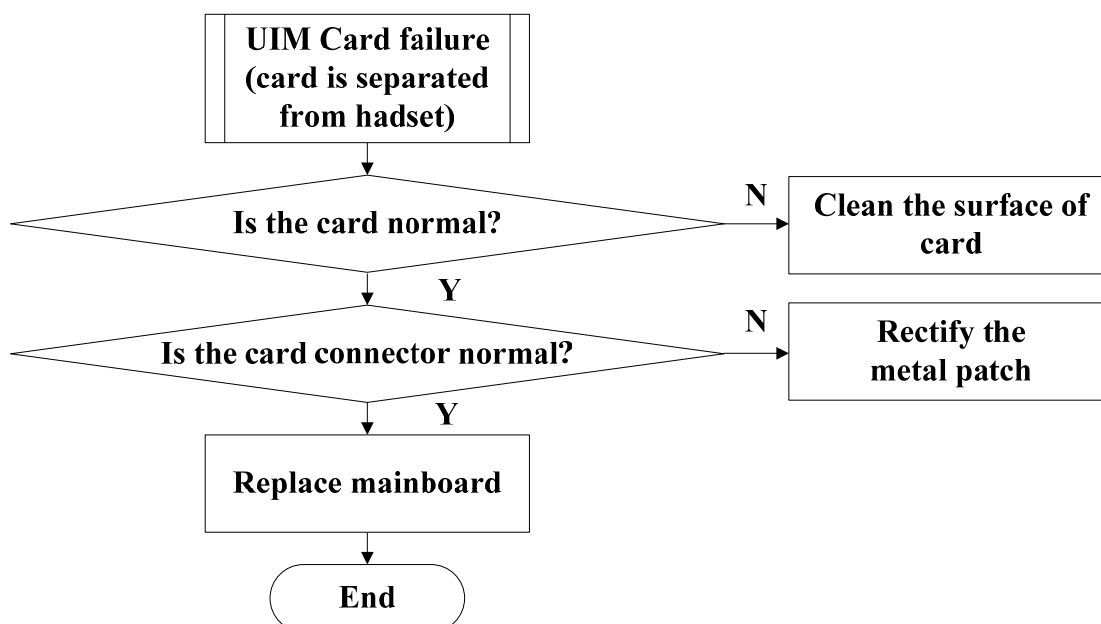
3.5 Charge Failure



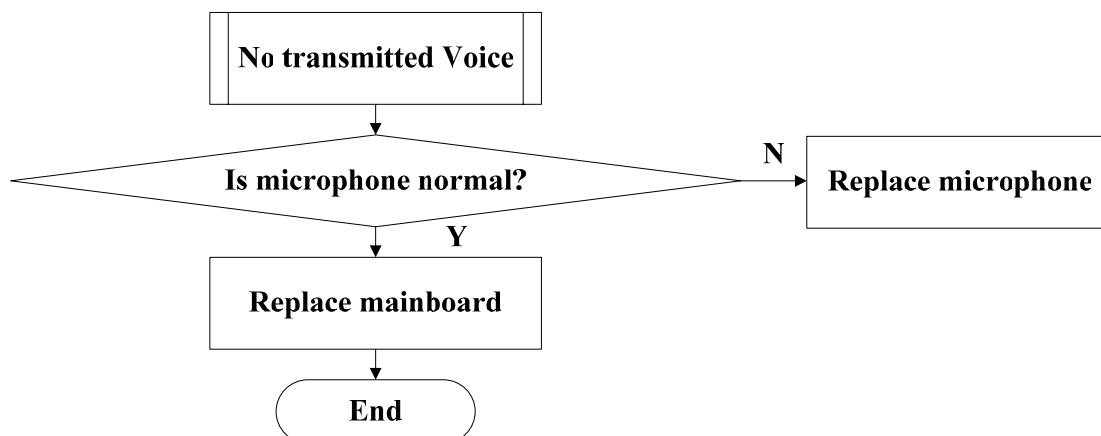
3.6 Handset Overheated



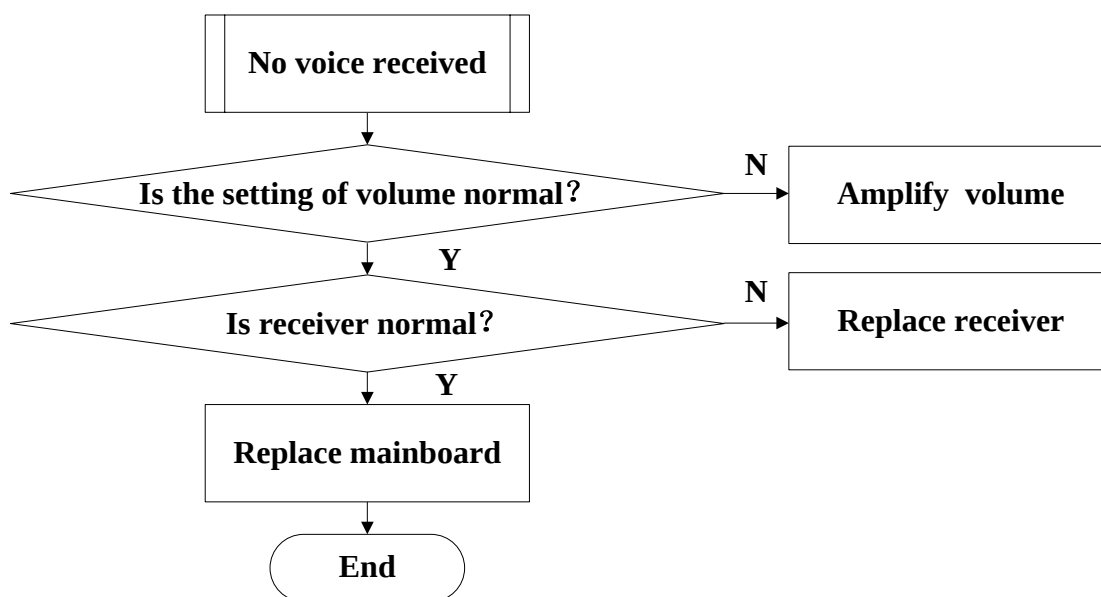
3.7 UIM Card Failure



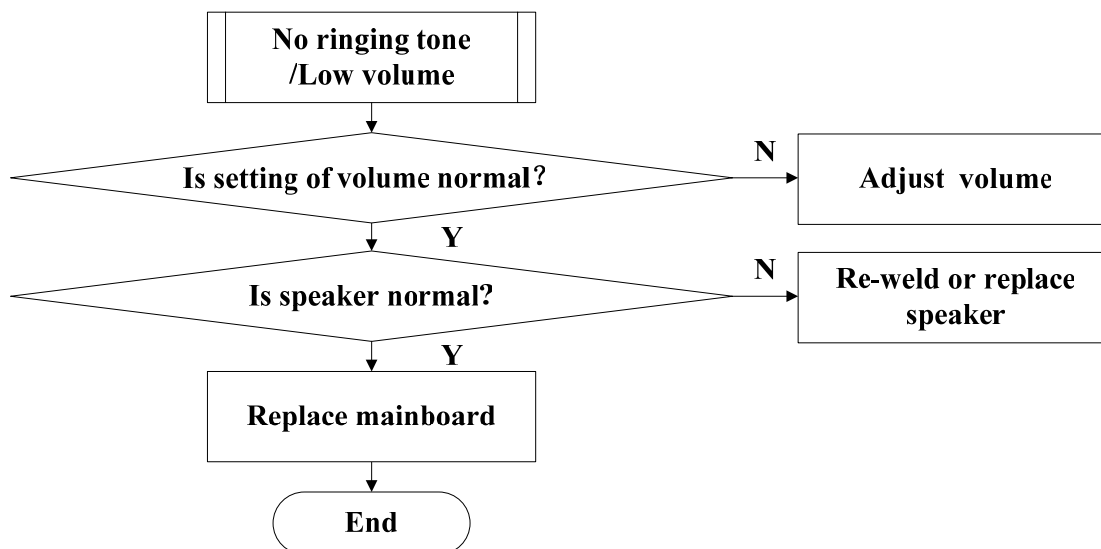
3.8 No Transmitted Voice



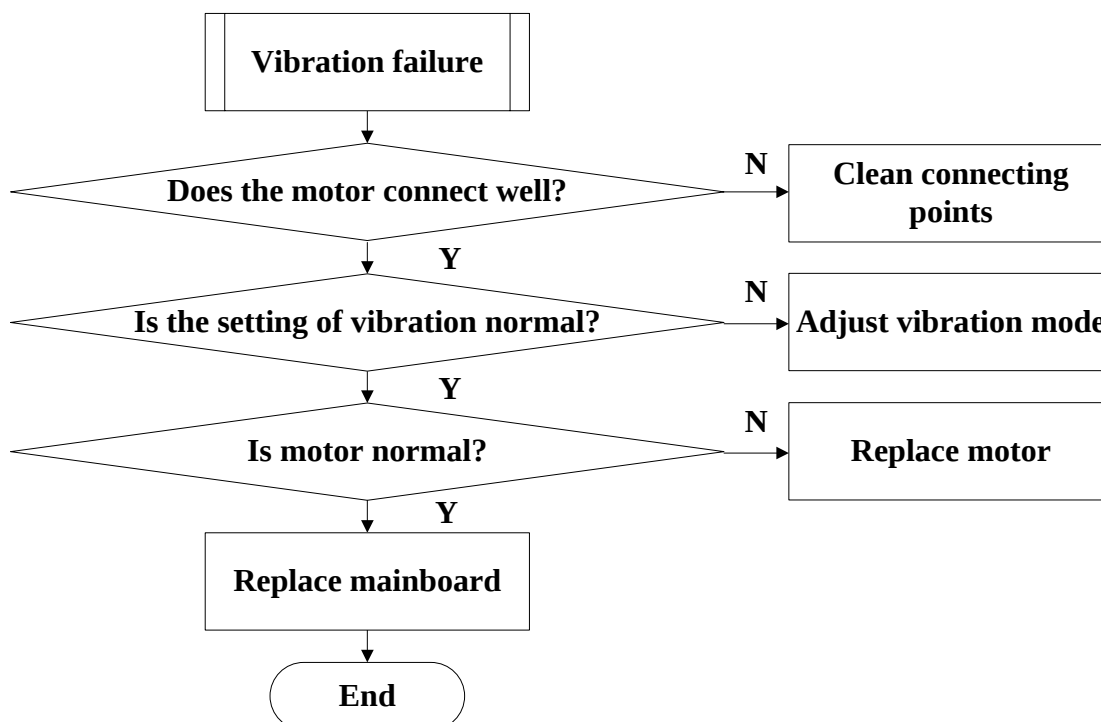
3.9 No Voice Received/Noise in the Receiver/Low Voice Volume



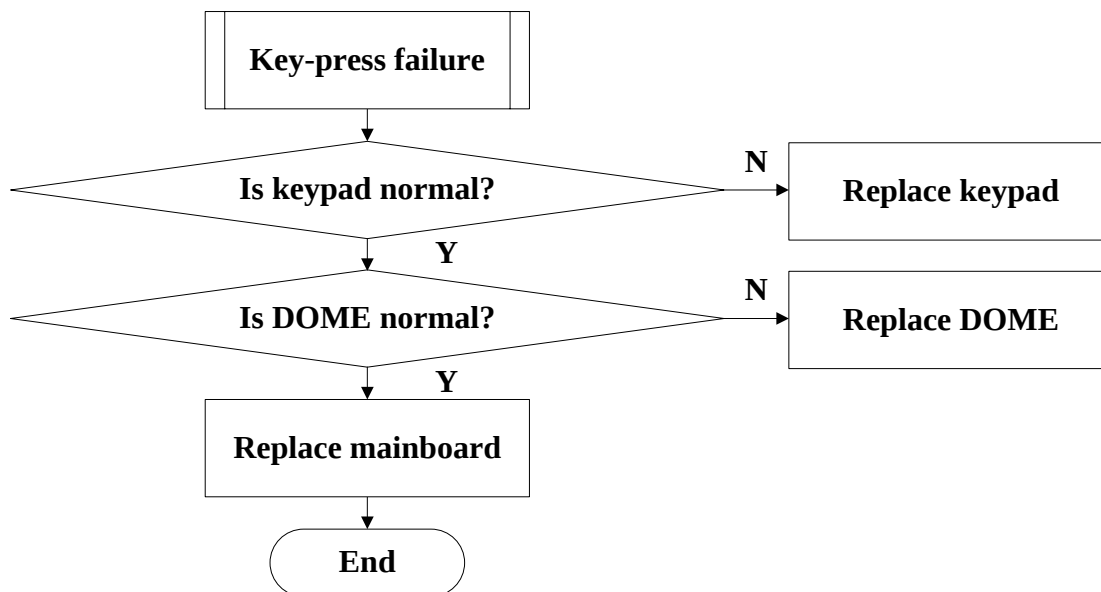
3.10 No Ring Tone or Low Volume



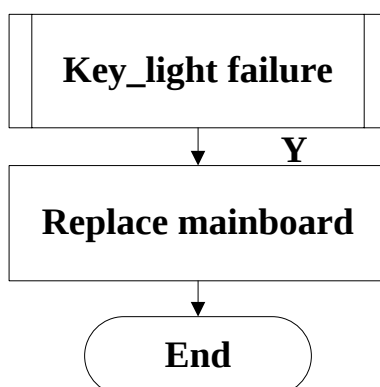
3.11 Vibration Failure



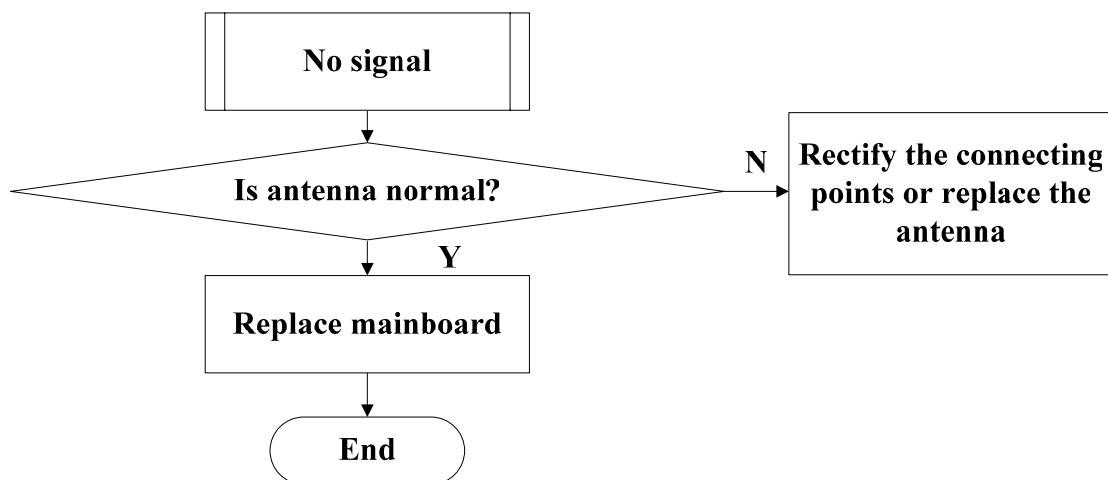
3.12 Key-press Failure



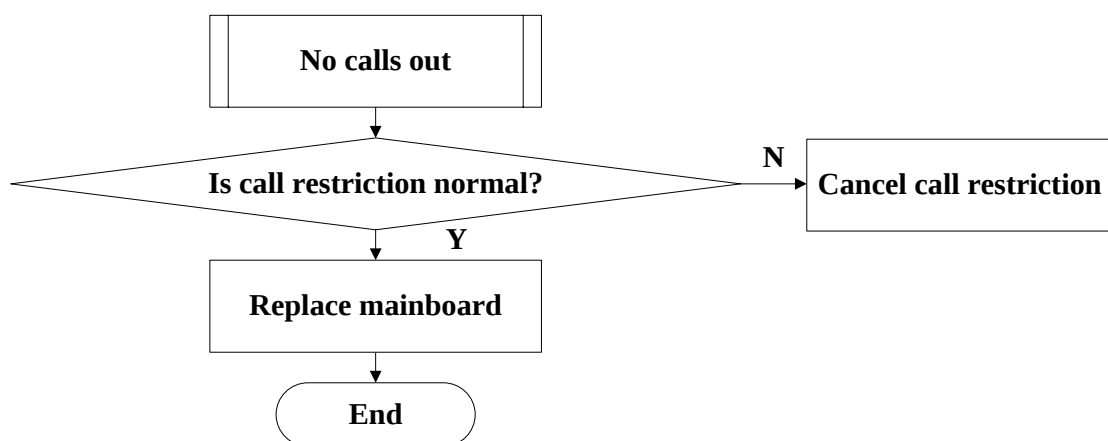
3.13 Key Light Failure



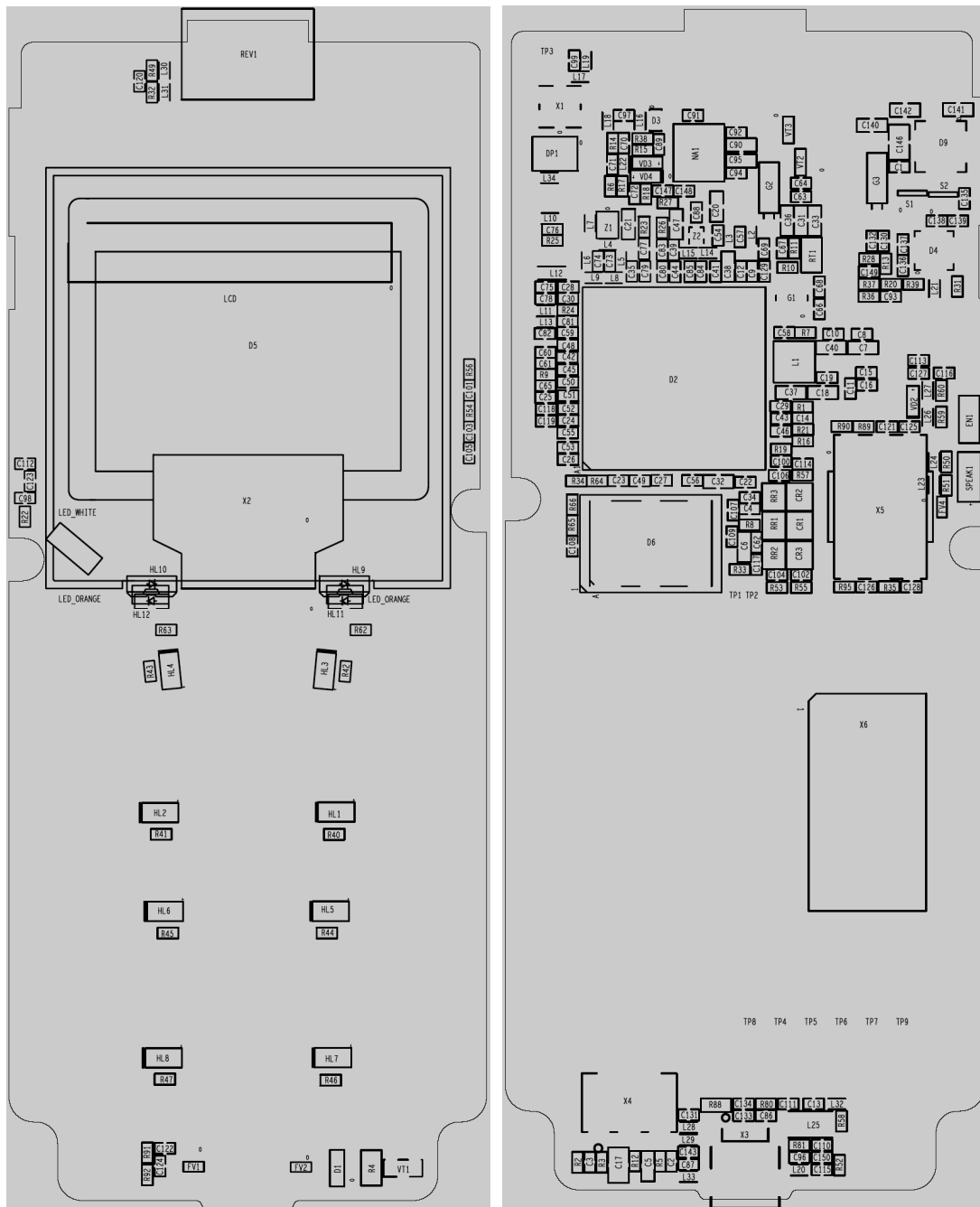
3.14 No Signal



3.15 No Calls Out



4. Layout schematics



5. Handset Part List

ZTEC330 CDMA 1X Handset Part List (Unicom)		
No.	Code	Name
1	055402100013	C330 DOME
2	050603100064	C300 Inner Antenna
3	035030100158	1.5CSTN LCD, Bar Type
4	035040300038	4015 Contact MIC
5	035070100022	Vibration Motor
6	035040400025	0711 Spring Type Receiver
7	035040100057	15-L30H04 Speaker

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