BLU

PRODUCTS

ARIA II

SERVICE MANUAL

CAUTIONS

1、 Please read this service manual carefully and make sure all elements of anti-static are in place before the repair work is carried out.

2、 Servicing and alignment **MUST** be undertaken by qualified personnel only.

3、 Please use specified tools and equipments for servicing, in which the parameters need to be calibrated with specified criteria.

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BLU
1
2 ABC
3 DEF
4 GHI
5 JKL
6 MNO
7 PQRS
8 TUV
9 WXYZ
0
BLU

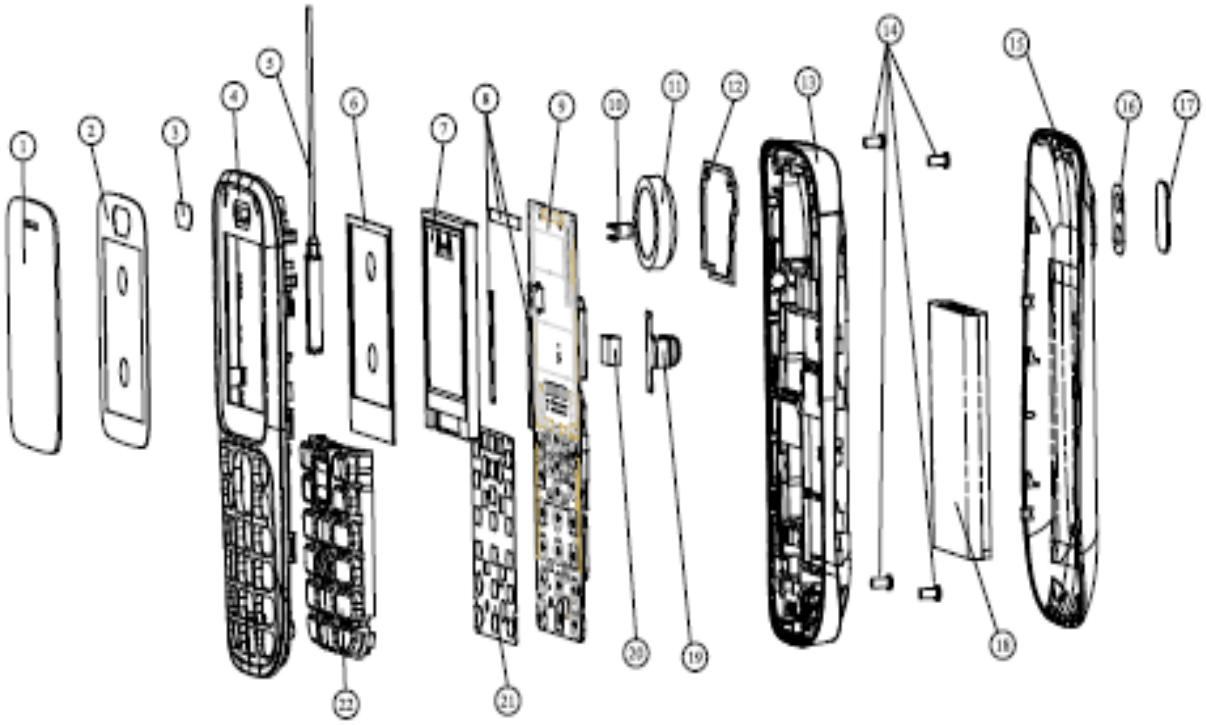
Aria II Features & Functions

- Dual SIM
- MT 6260M
- 24Mb+32Mb
- Fashion bar phone
- FM
- Moner detector flash
- Multi-Media application
- 0.08M　sw upgarde to 0.3M by sw
- T-Flash（Support 8G T Card）
- 1.8“TFT 128*160
- MP3、MP4、AVI

Specification :

Network:　900MHz/1800MHz, 850MHz/1900MHz
Display:　1.8“TFT 128*160
Camera:　0.08M　sw upgarde to 0.3M by sw;
Travel Charger AC Adaptor: 5V 500mah
Lithium Battery:　Standard (900mAh)
Bluetooth Version:　BT 3.0, HFG, OPP

Chapter 2 Exploded View



1. Lens
3. Receiver
4. Front cover
5. FM antenna
7. LCD
9. PCBA
11. Speaker
13 Back cover
18 Battery
19 Camera
21 DOME
22 Keypad

Chapter 3 Tools

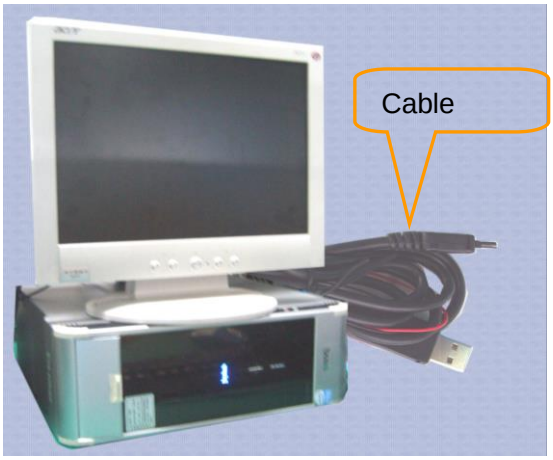
Solder iron

Hot Air Gun

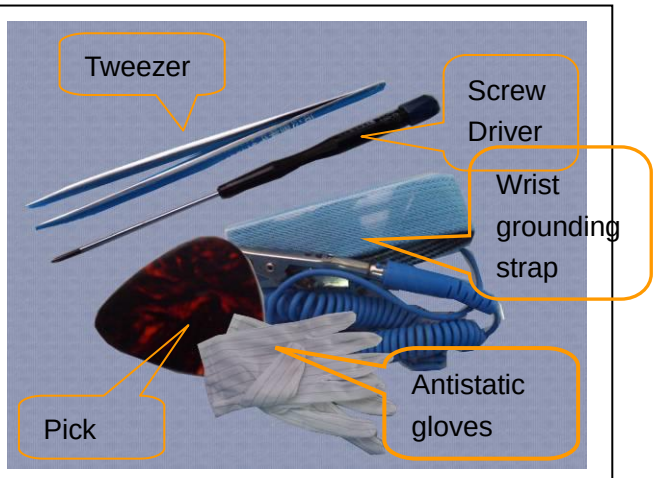
Power Supply

Multimeter

Solder wire, Flux



PC, Download cable



Others

Chapter 4 Disassembly & Assembly

1. Disassembly Process

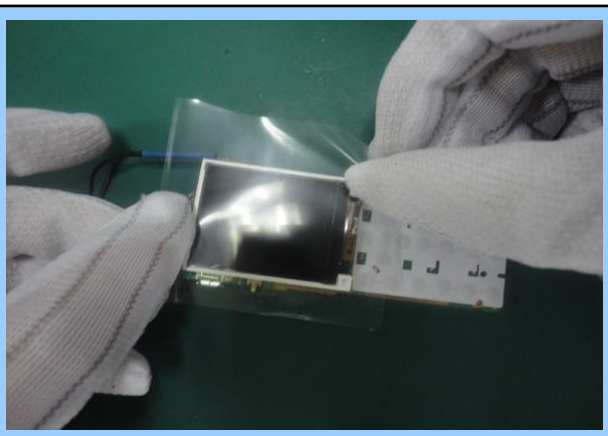
1. Remove the battery cover

2. Unfasten the 4 screws by screw driver

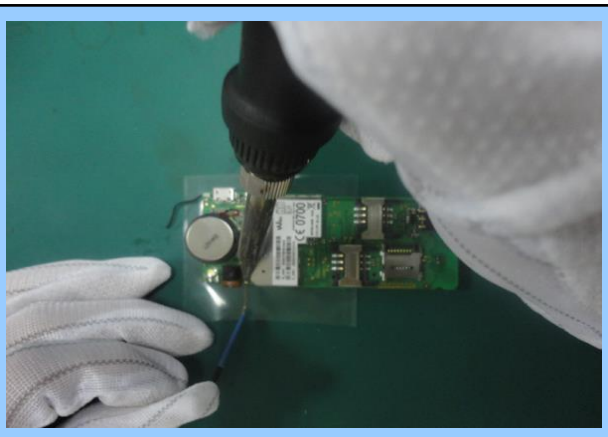
3. Prize up the back cover by pick

4. Remove the PCBA ..

5. Stick protection film for front cover.

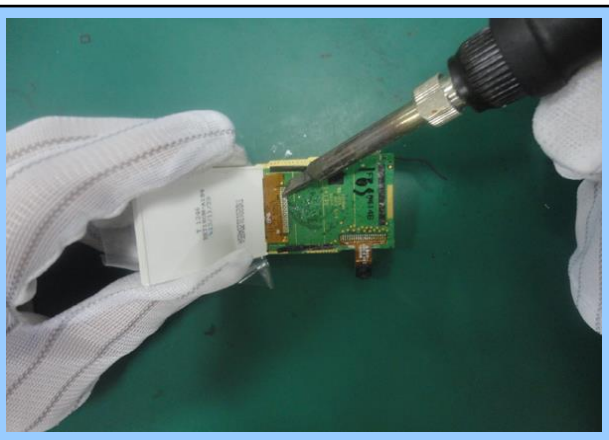


6. Stick protection film for LCD

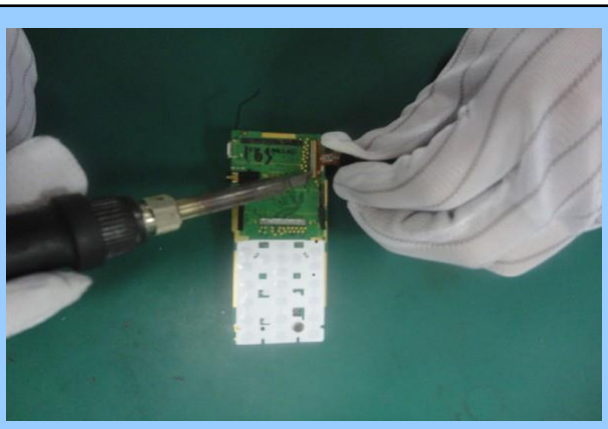


7. Remove the FM antenna by iron

8. Remove the speaker by iron



9. Remove the LCD by iron

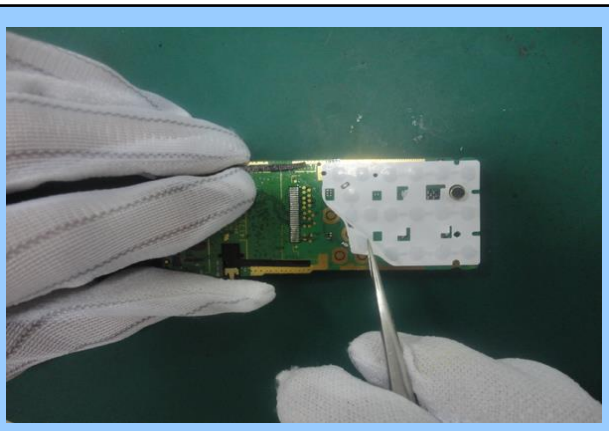


10. Remove the camera by iron

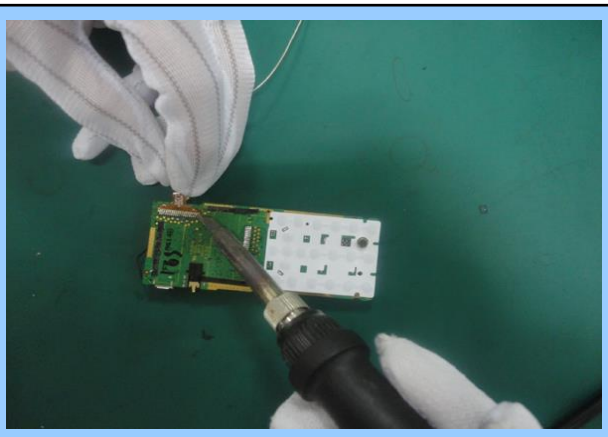
11. Remove the keying film

Finished.

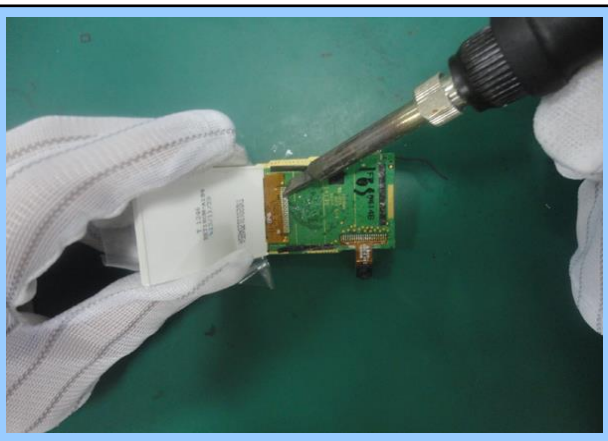
2. Assembly Process



1. Install the keying film

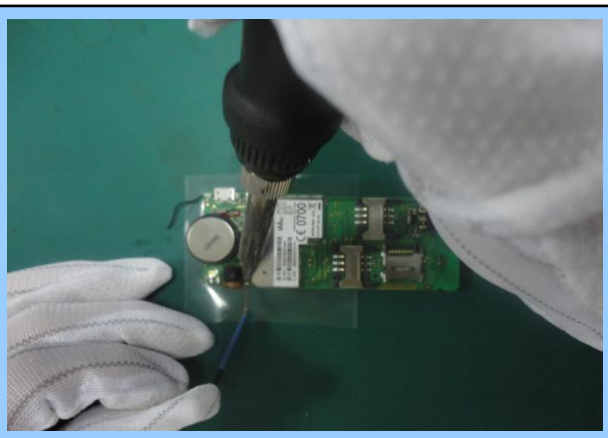


2. Install the camera.



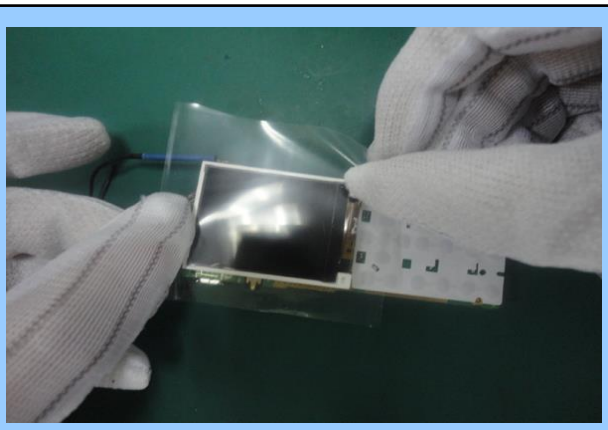
3. Install the LCD by iron..

4. Install the speaker by iron.



5. Install the FM antenna by iron..

6. Remove the protection film front cover



6. Remove the protection film LCD

6. Install the PCBA.

6. . Install the back cover

6. Fasten the screws

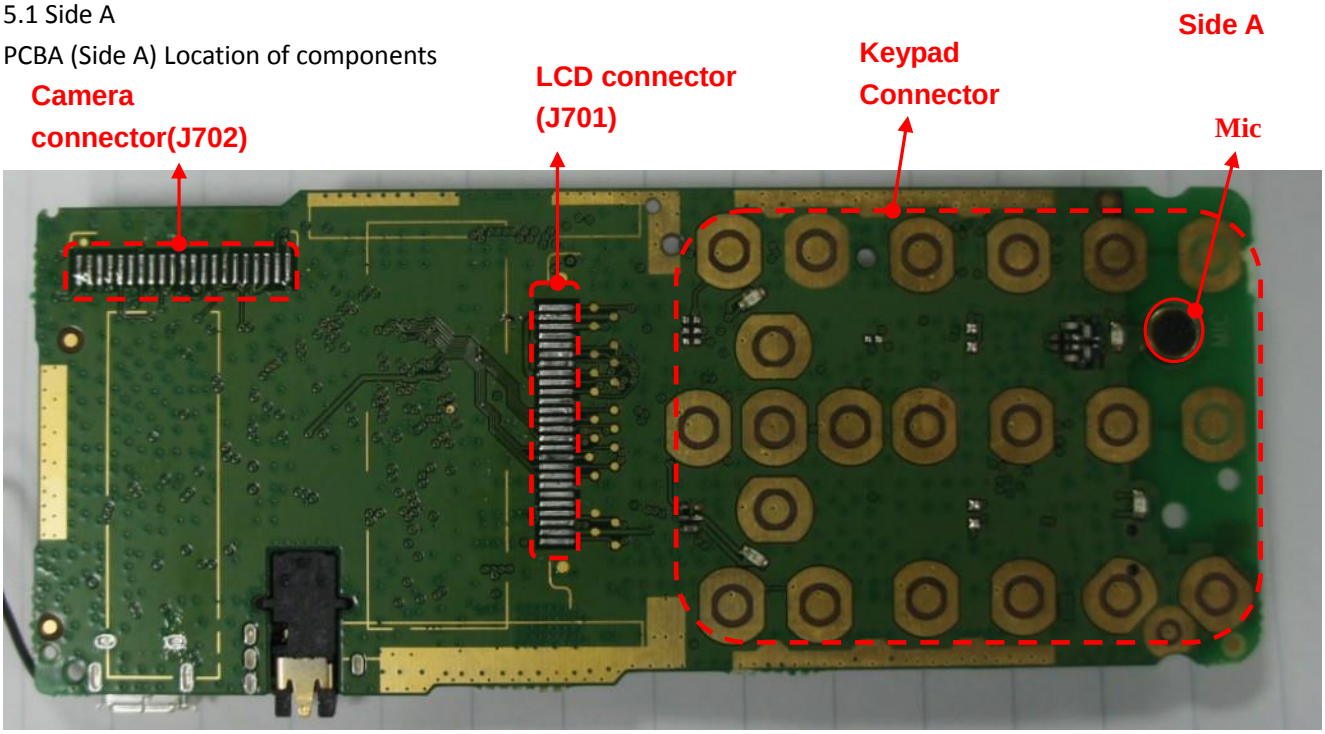
6.. Install the battery cover

Finished.

Chapter 5 Picture of PCBA

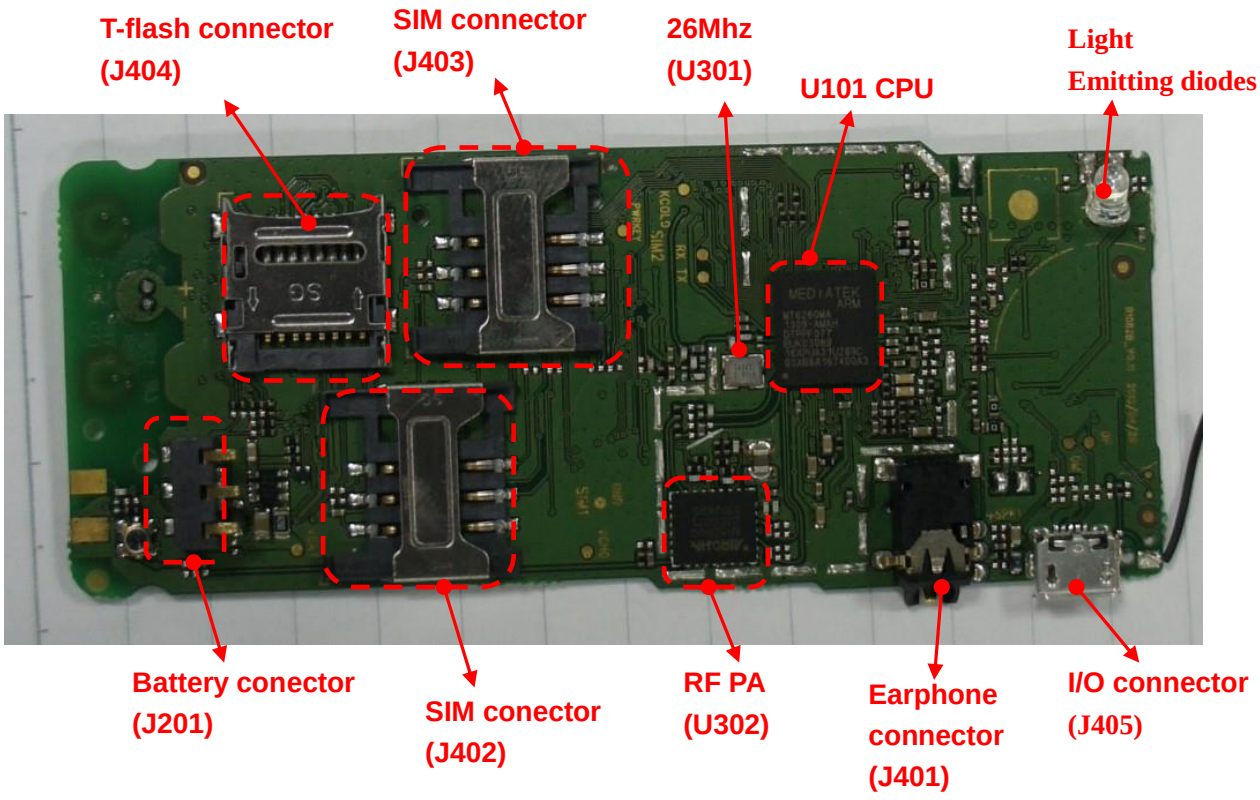
5.1 Side A

PCBA (Side A) Location of components

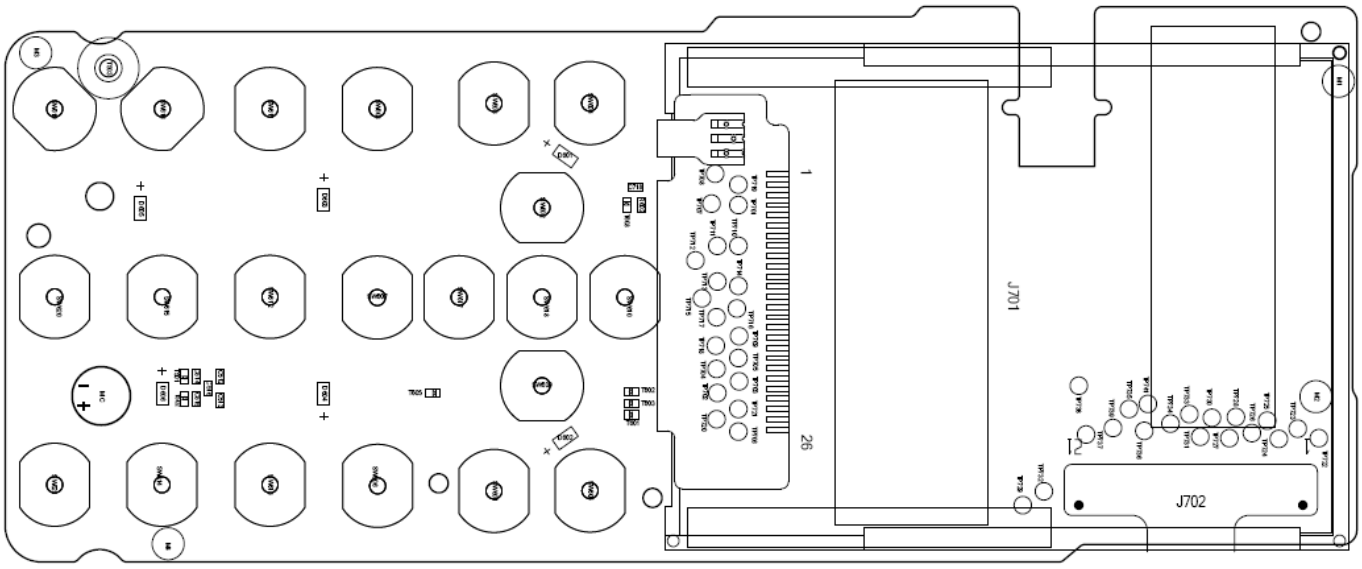


5.2 Side B

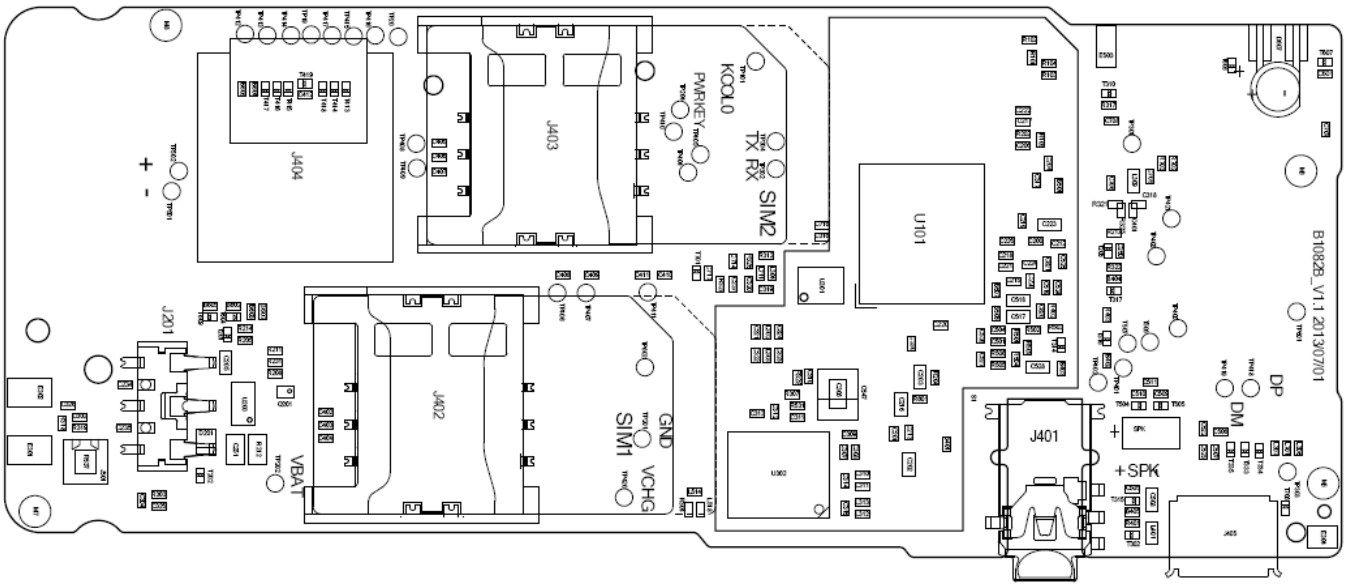
PCBA (Side B) Location of Components



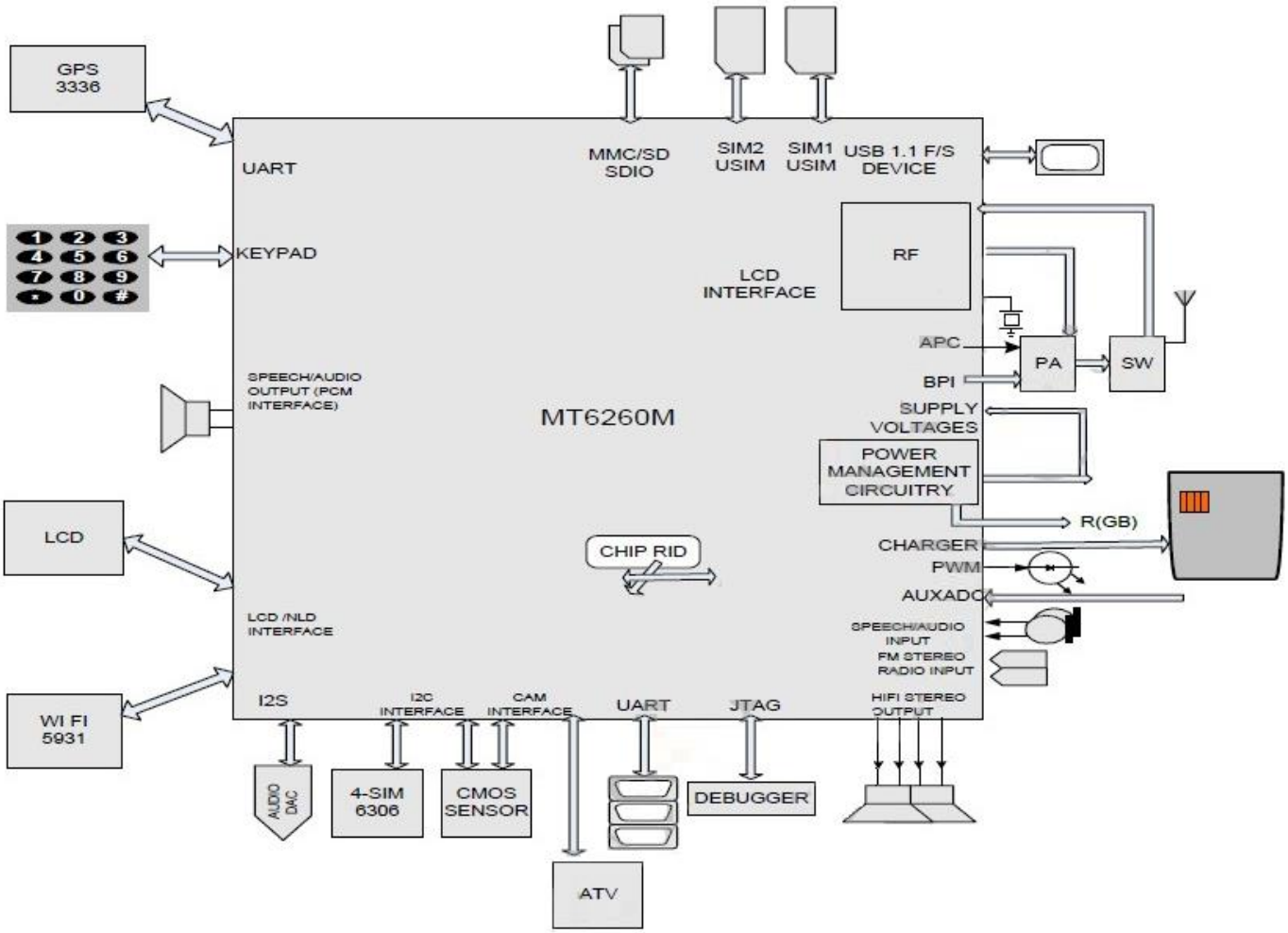
5.3 PCBA Layout side A



5.4 PCB Layout Side B



Chapter 6 System Block Chart



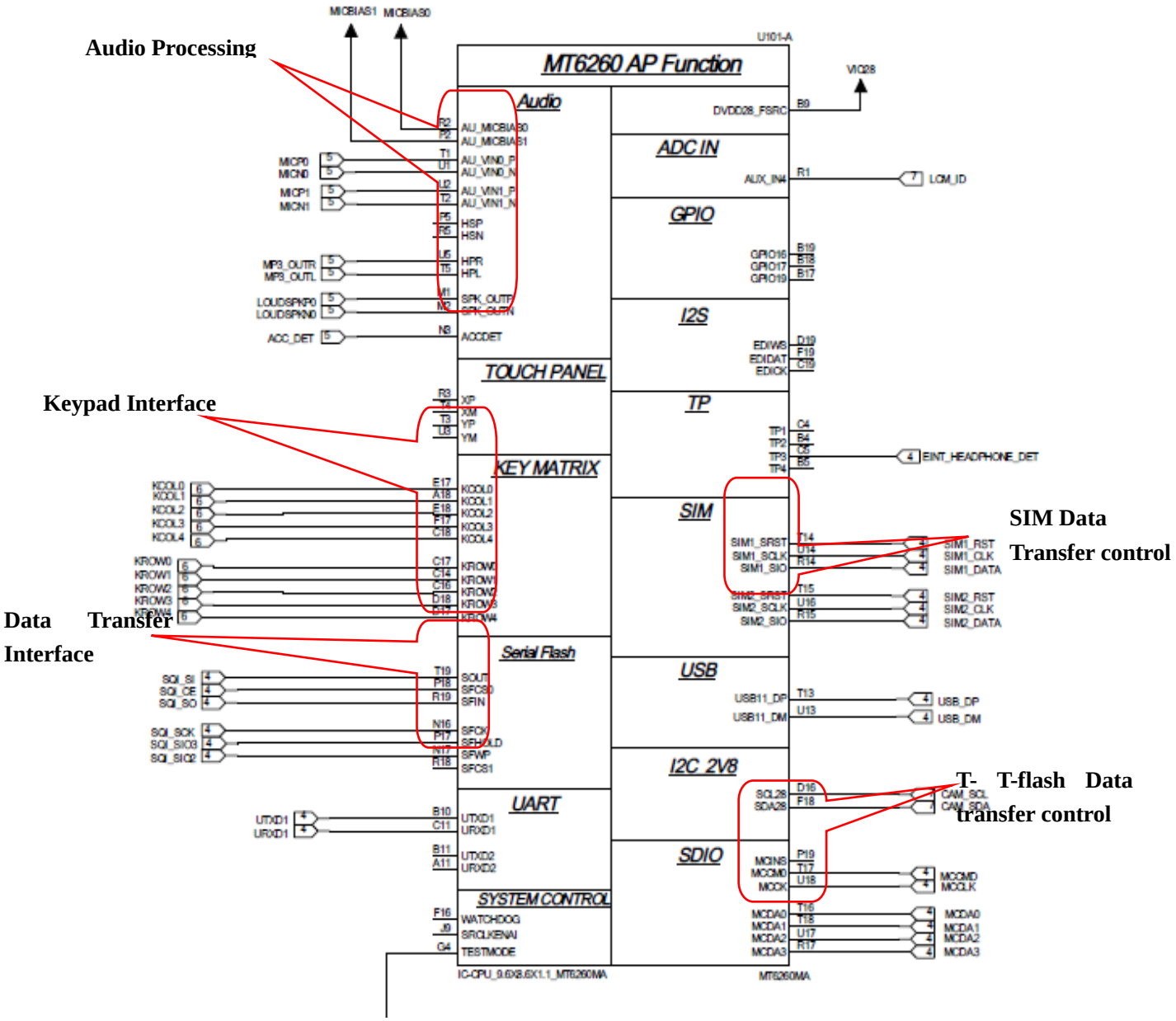
Chapter 7 Unit Circuit

7.1.1 System Overview

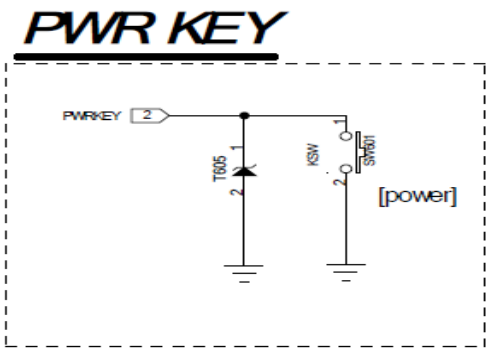
MT6260M is a monolithic chip integrating leading edge power management unit, analog baseband and radio circuitry based on the low power CMOS process.

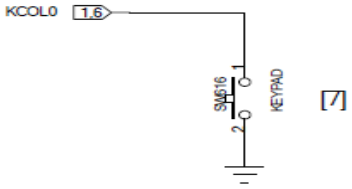
MT6260M is a feature-rich and extremely powerful single-chip solution for high-end GSM/GPRS and EDGE-Rx capability. Based on the 32-bit ARM7EJ-S RISC processor, MT6260M's superb processing power, along with high bandwidth architecture and dedicated hardware support, provides a platform for high-performance GPRS/EDGE-Rx Class 12 MODEM application and leading-edge multimedia applications.

7.1.2 Baseband & CPU

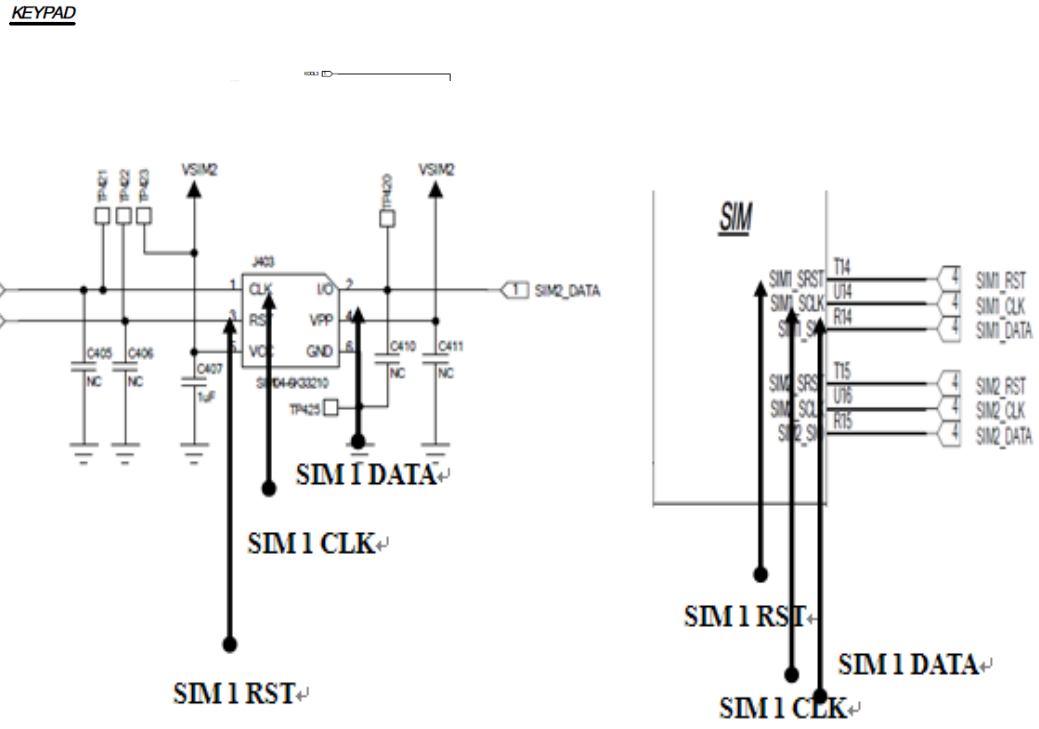


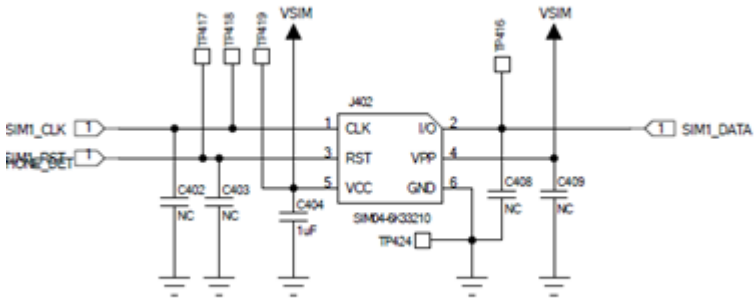
7.1.3 **Keypad Input Interface**



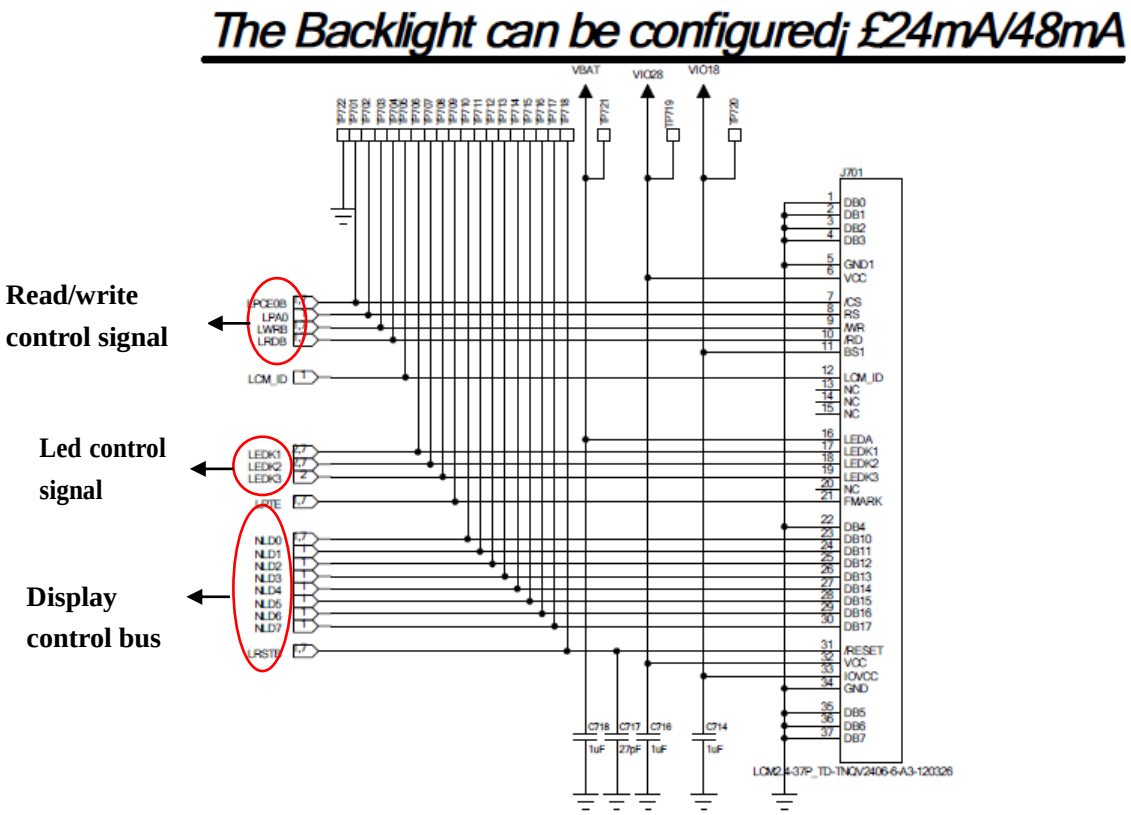


7.1.4

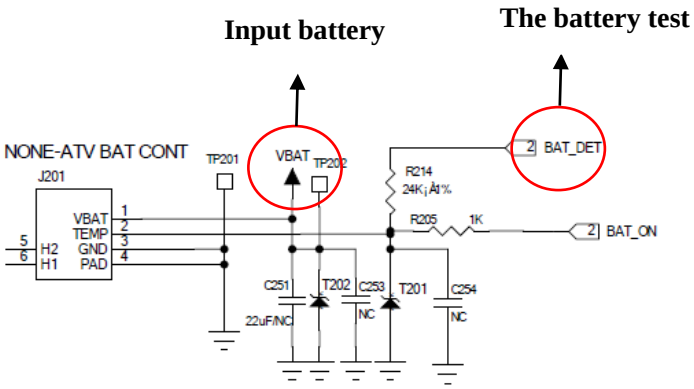




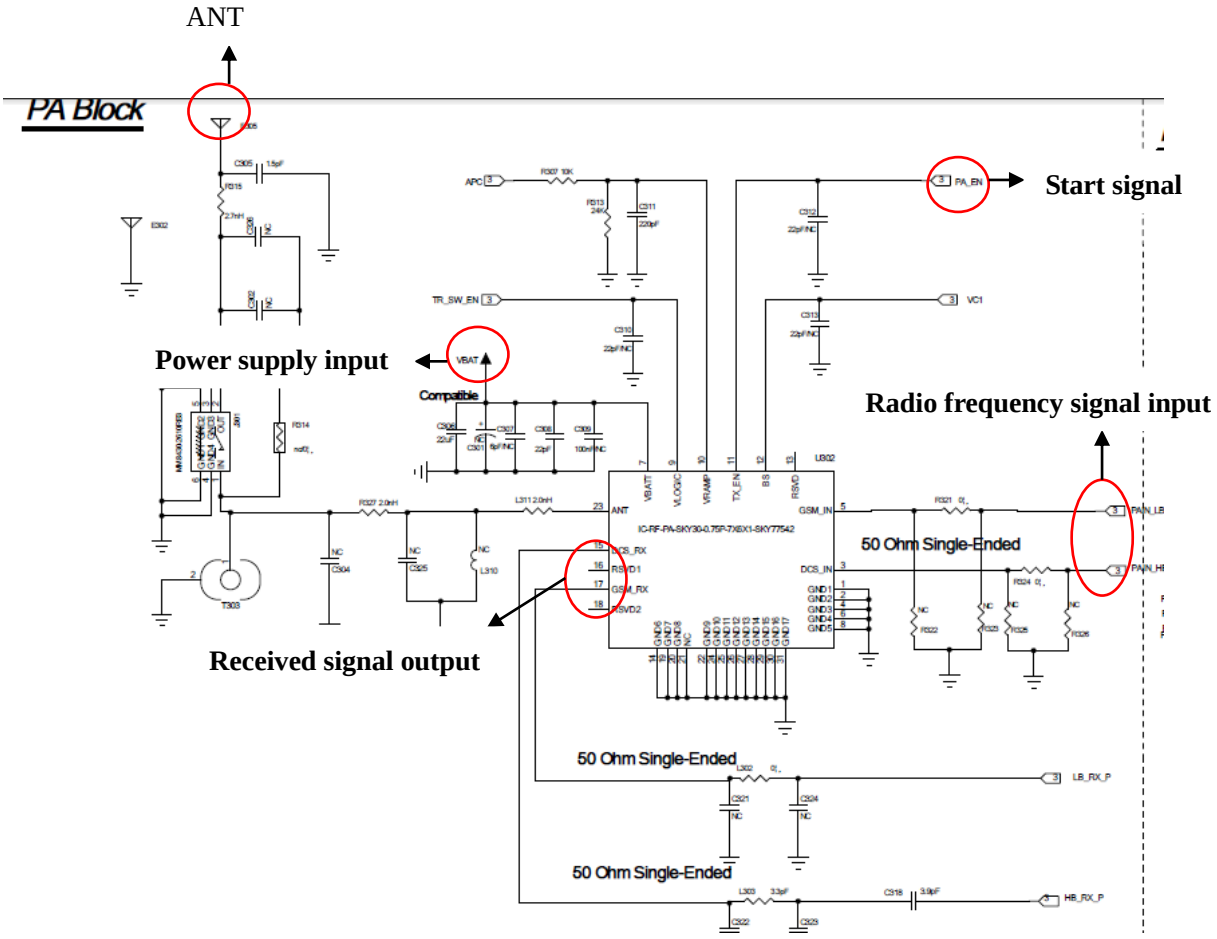
7.1.5 Display interface circuit



Battery Connector

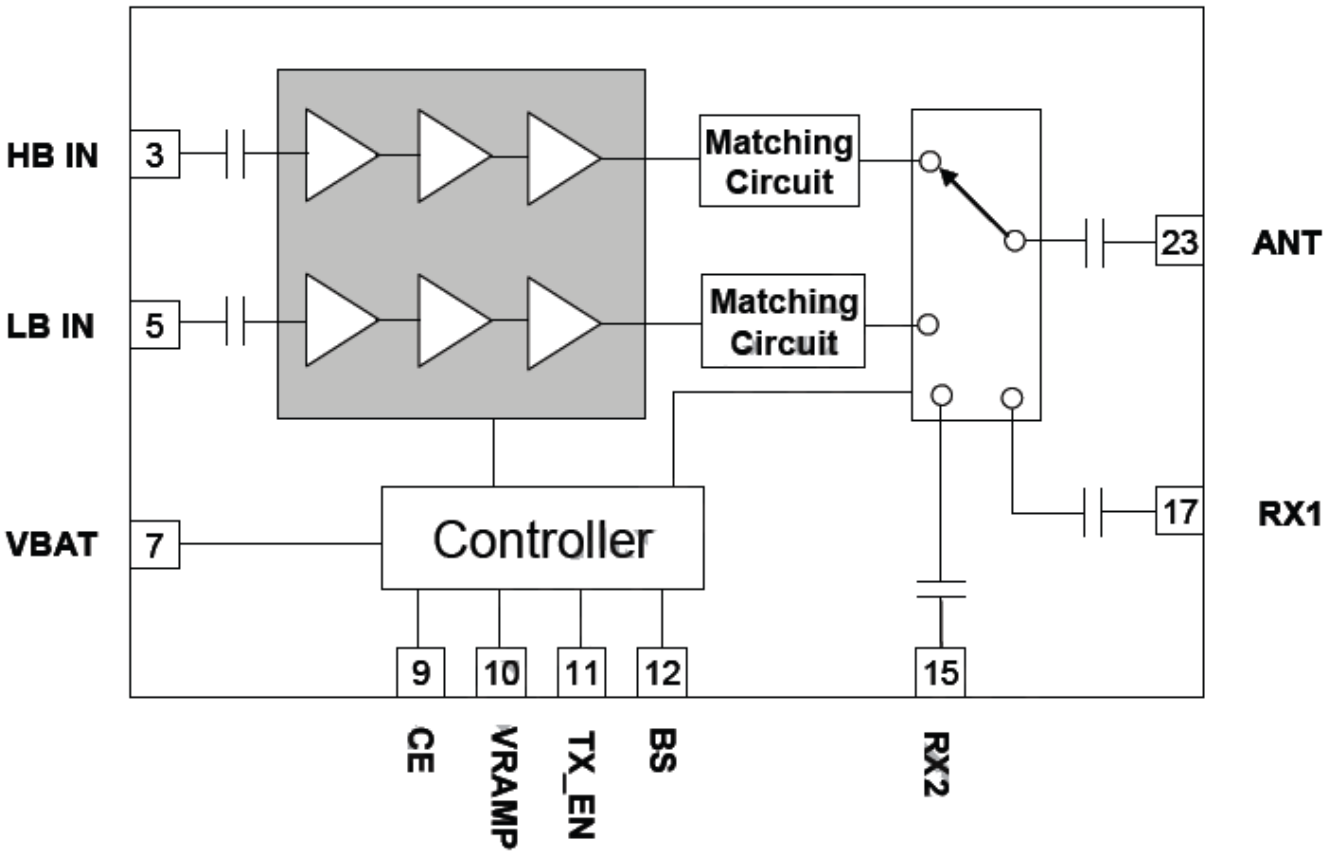


7.1.6 **Power amplifier**

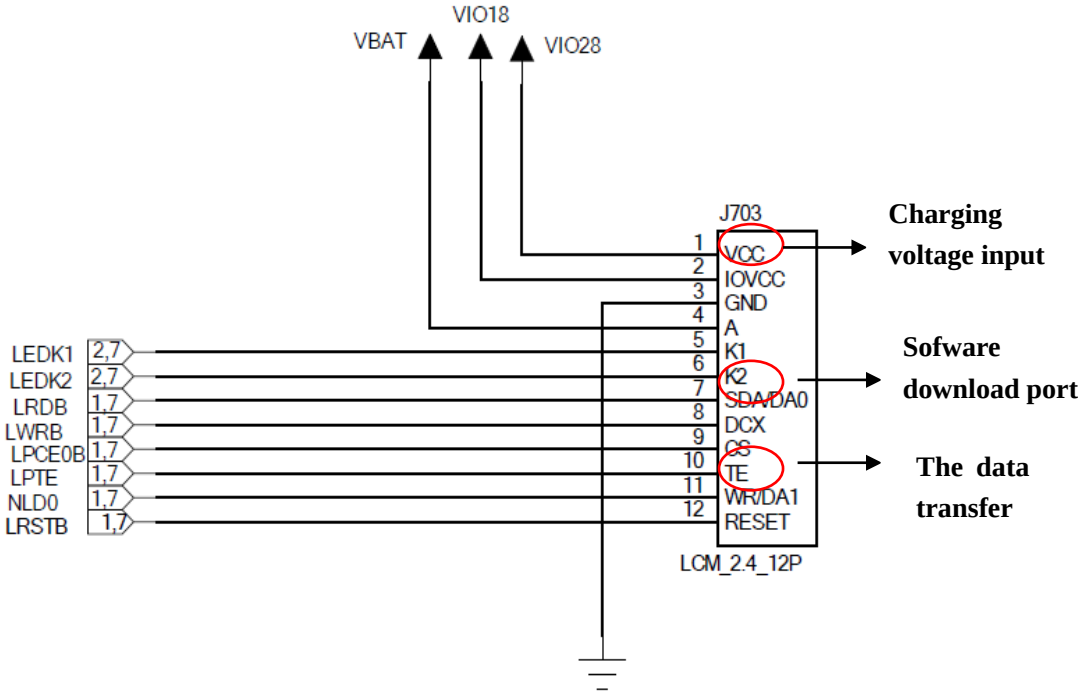


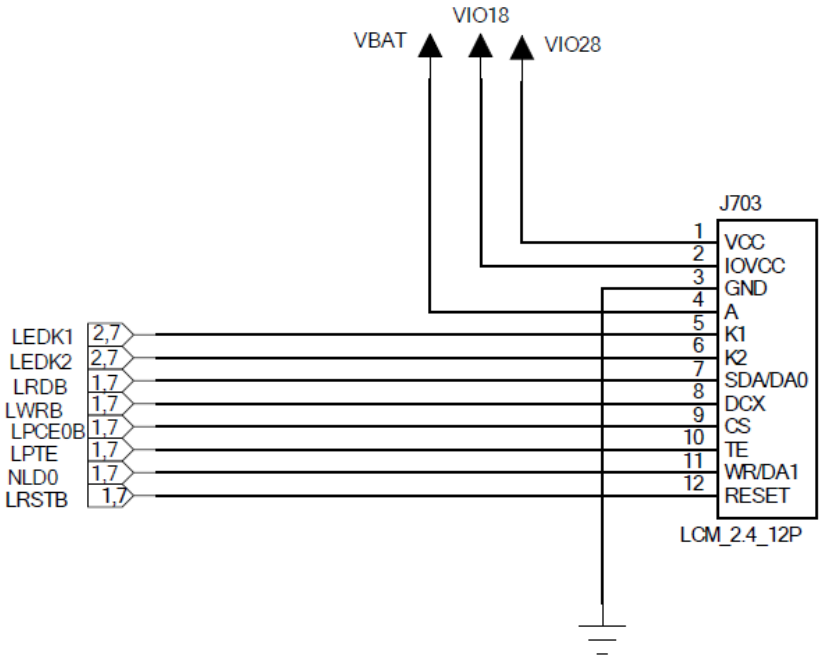
System Overview

The AP5200 is a dual-band frond-end module for GSM900 and DCS1800 operation. It offers complete handset transmitting and receiving function including, transmitting RF transceiver-to-antenna and receiving antenna-to-SAW filter, in a compact module. It also supports GPRS Class 12 multi-slot operation.



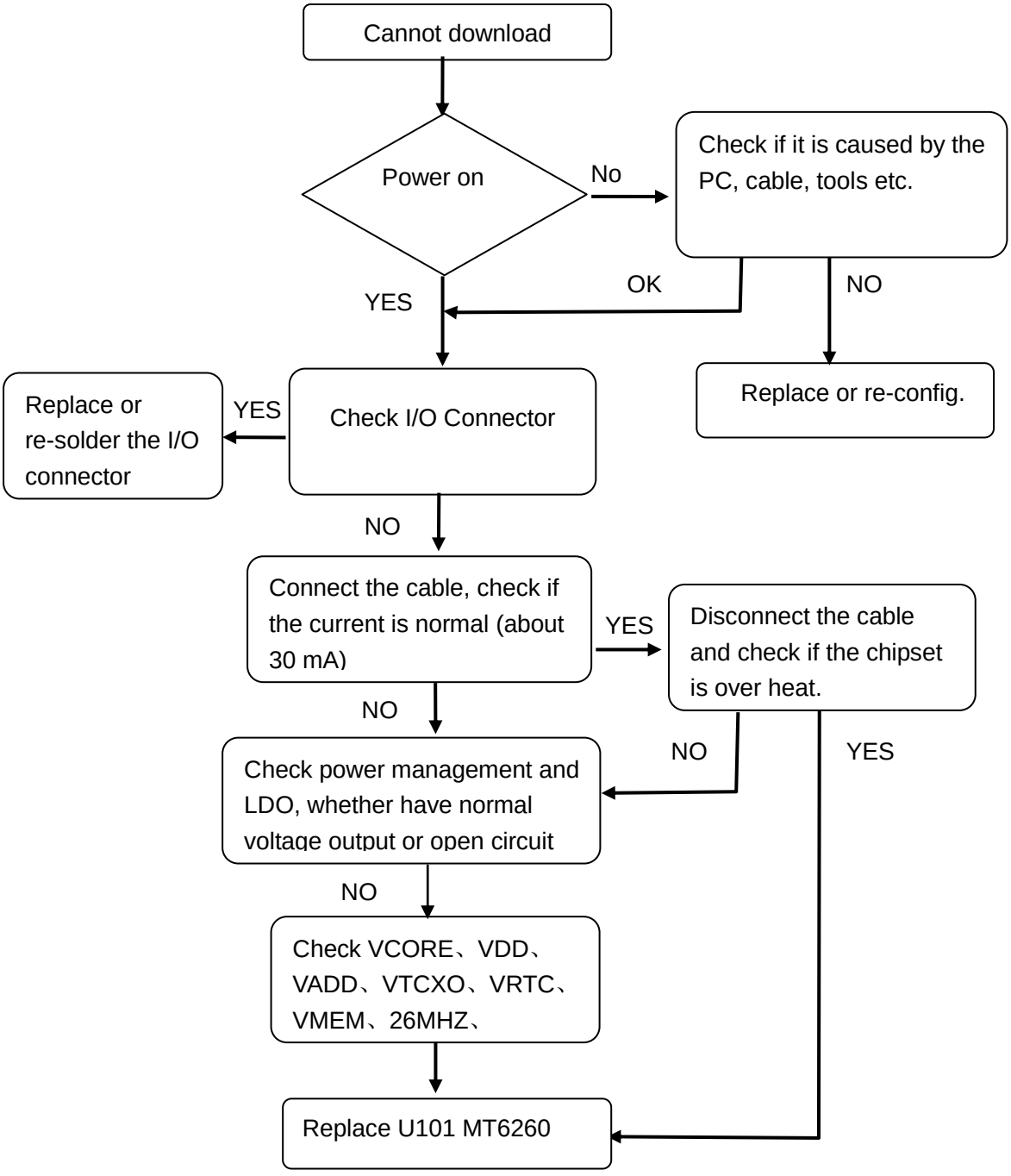
7.1.7 I/O Interface (5PIN)



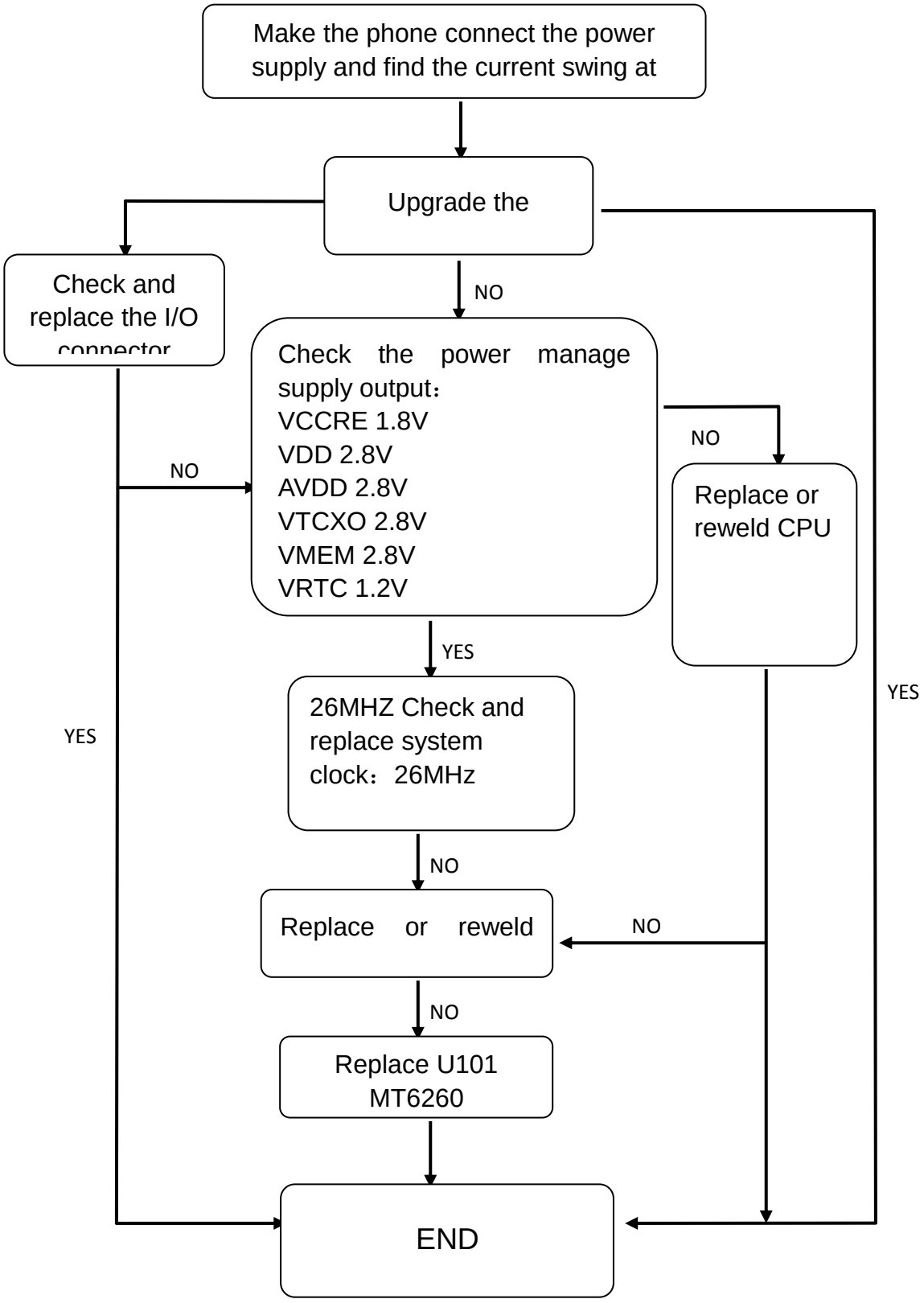


Chapter 8 Trouble shooting guide

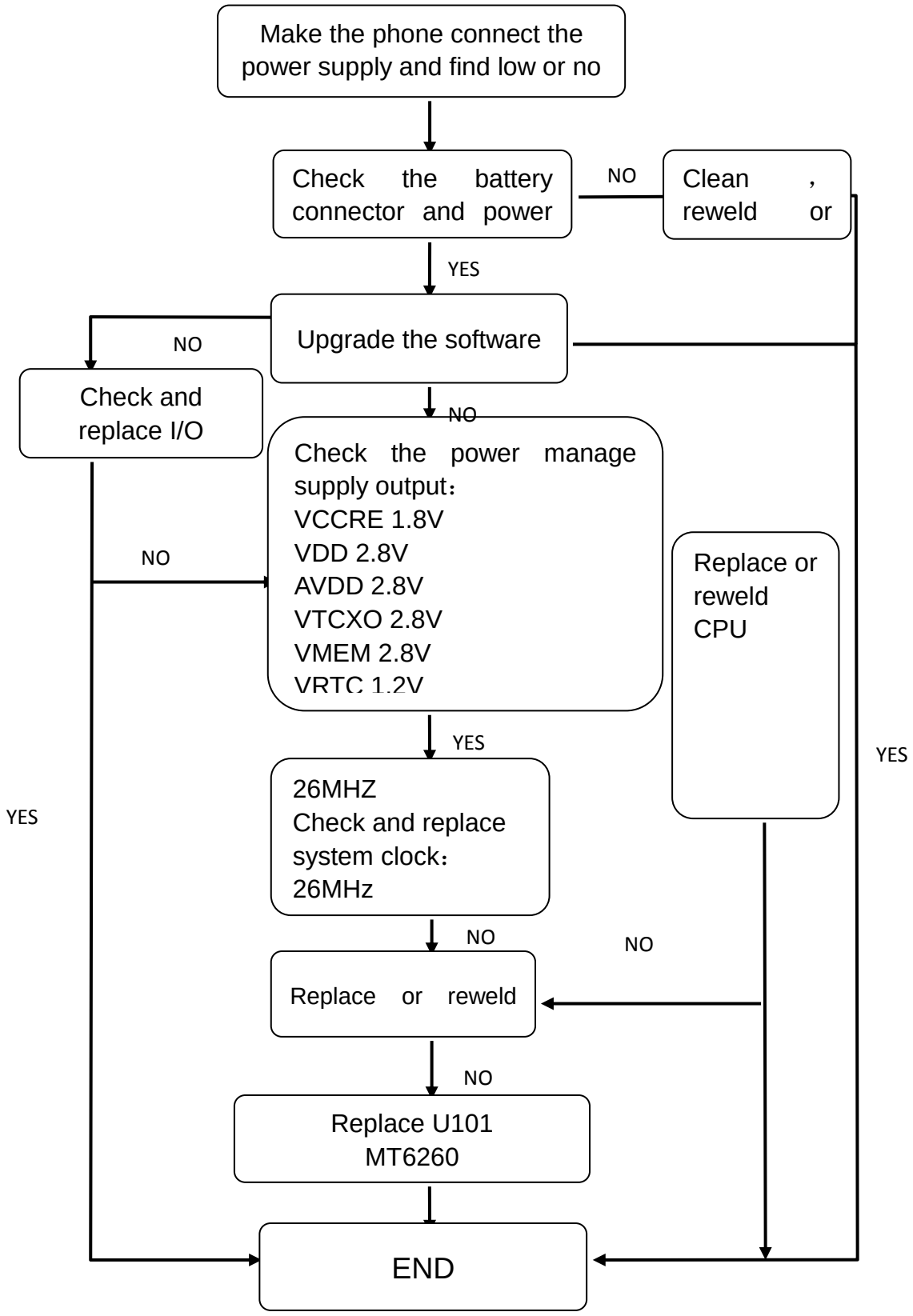
Can't Download



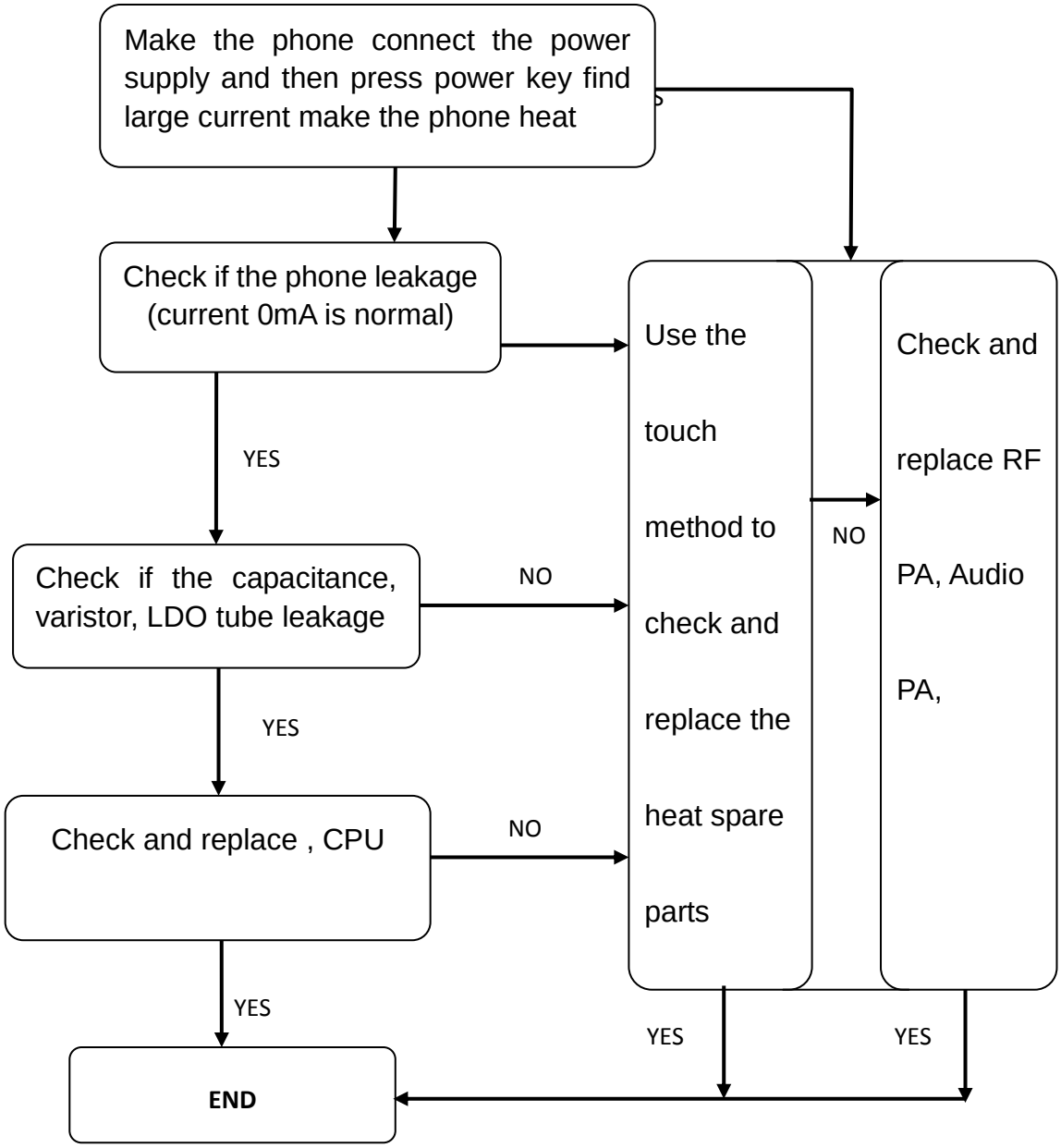
Cannot power on-current swing instability



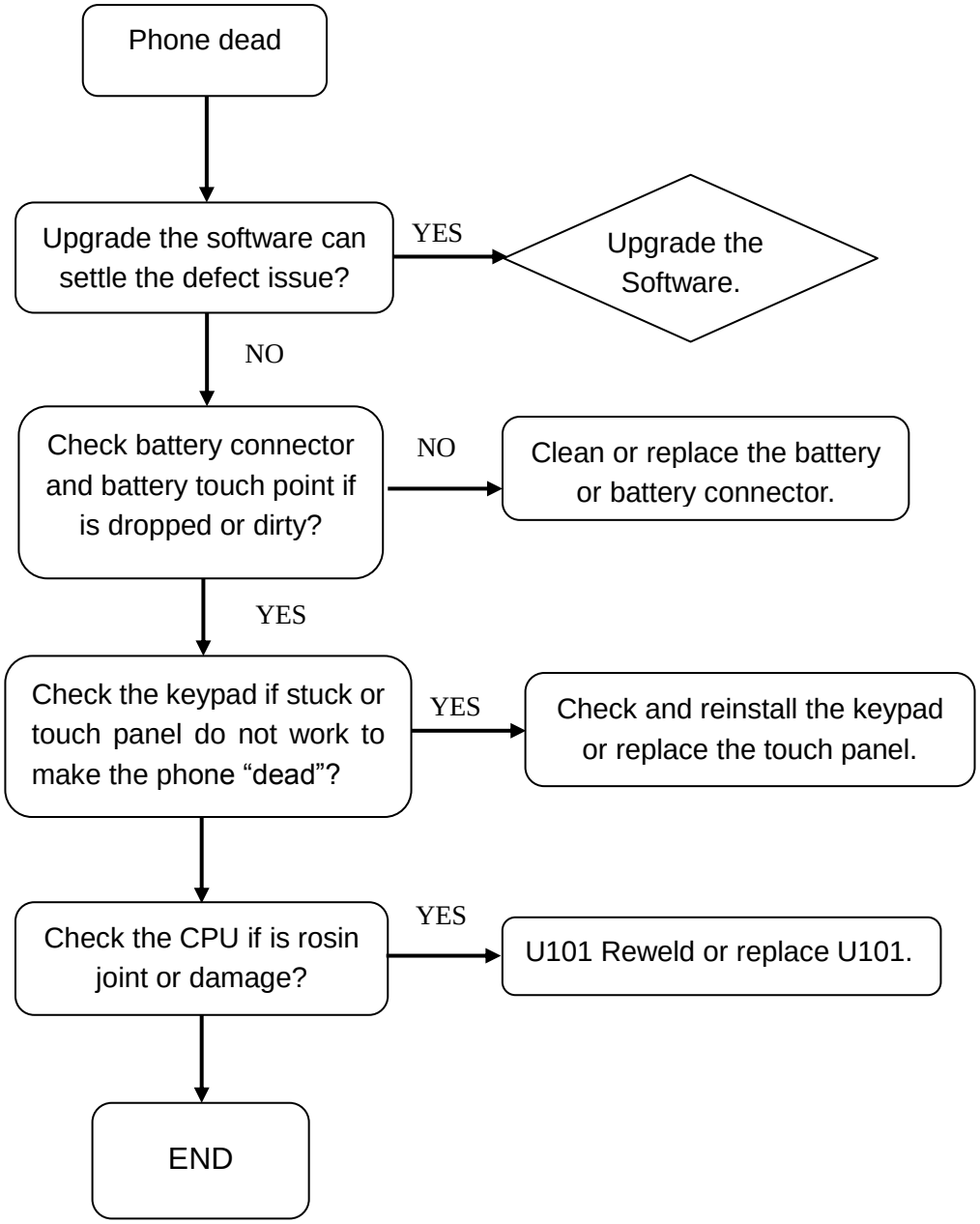
Cannot power on-low or no current



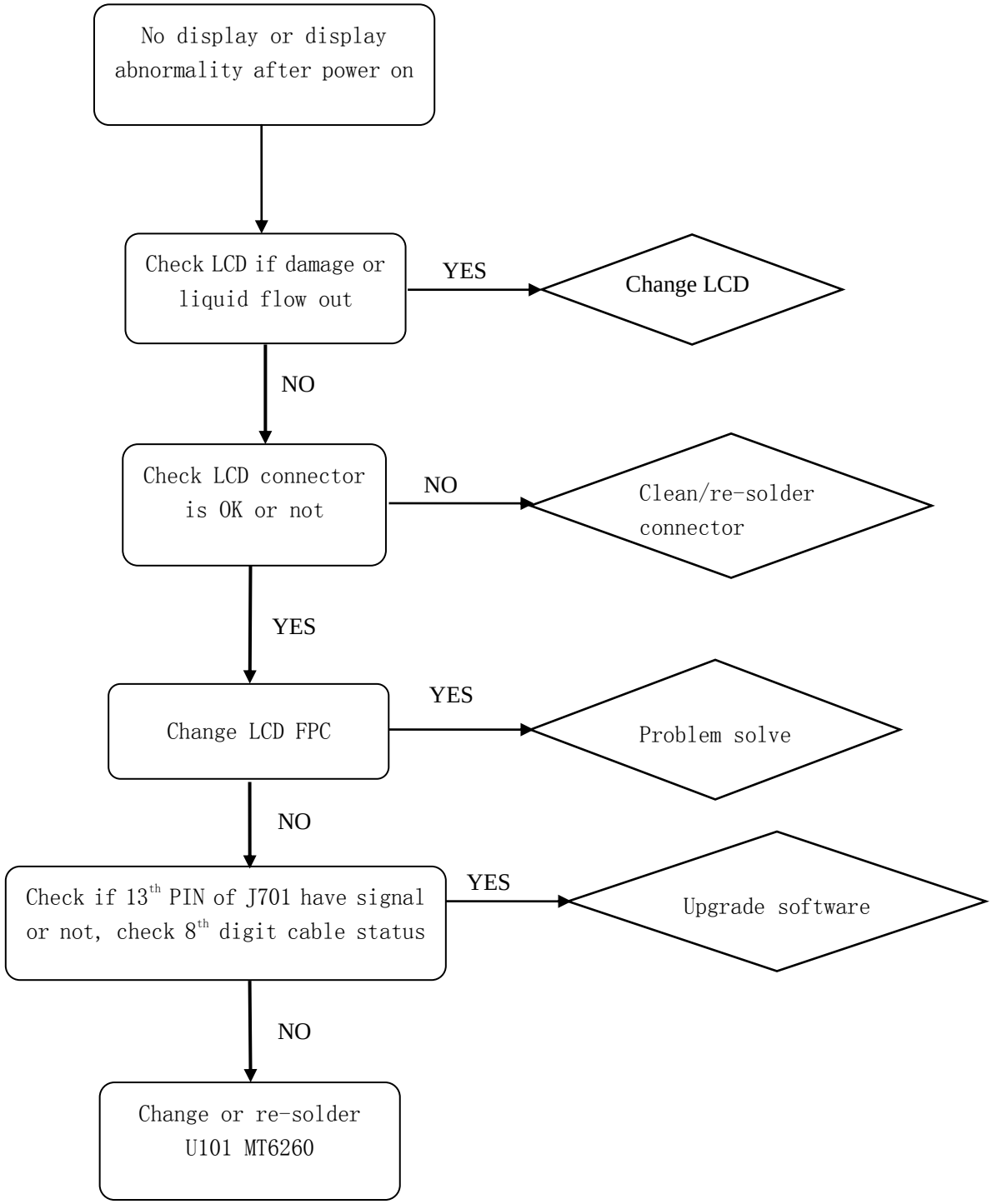
Cannot Power on-large current



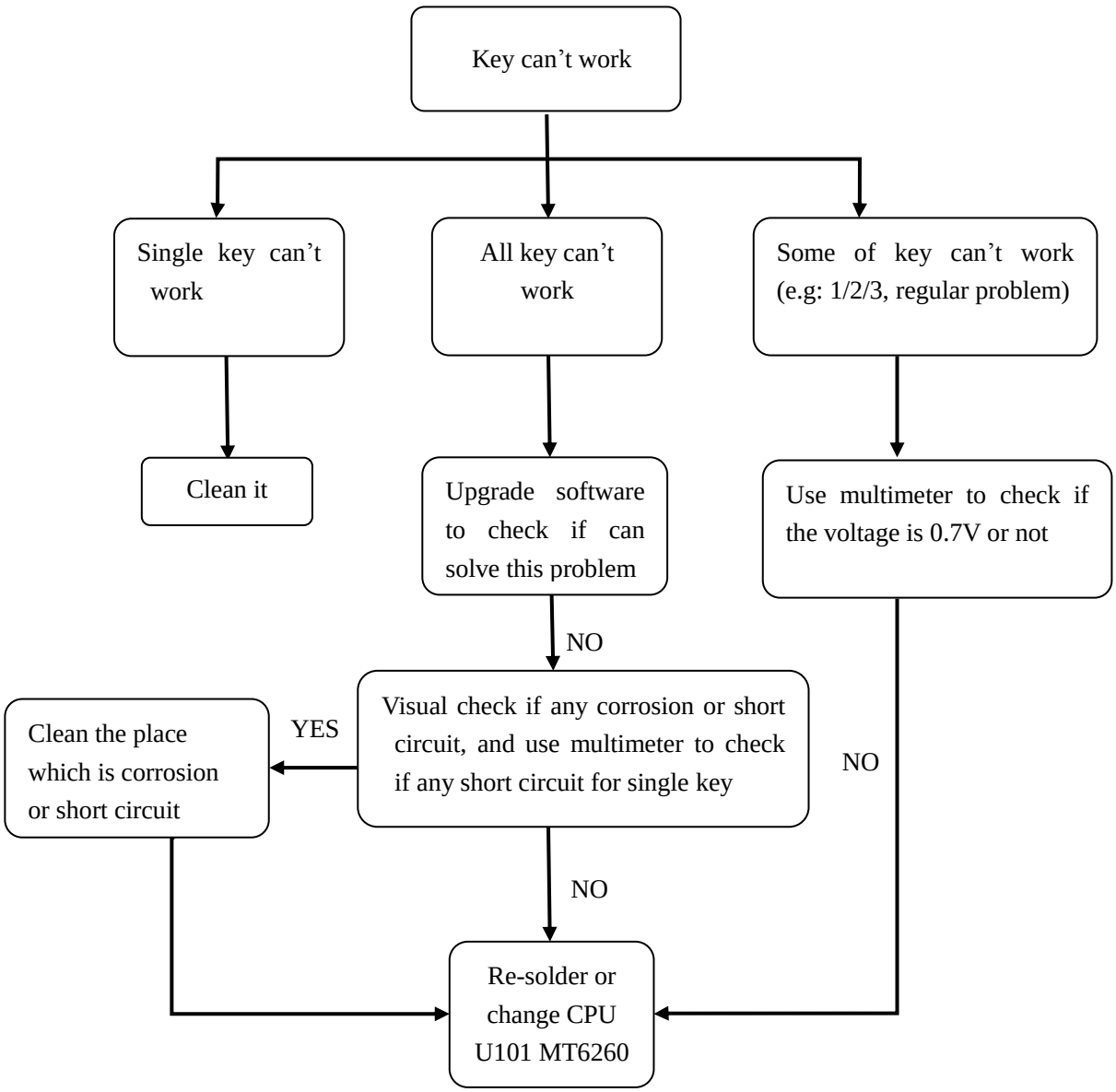
Repair flow for phone dead



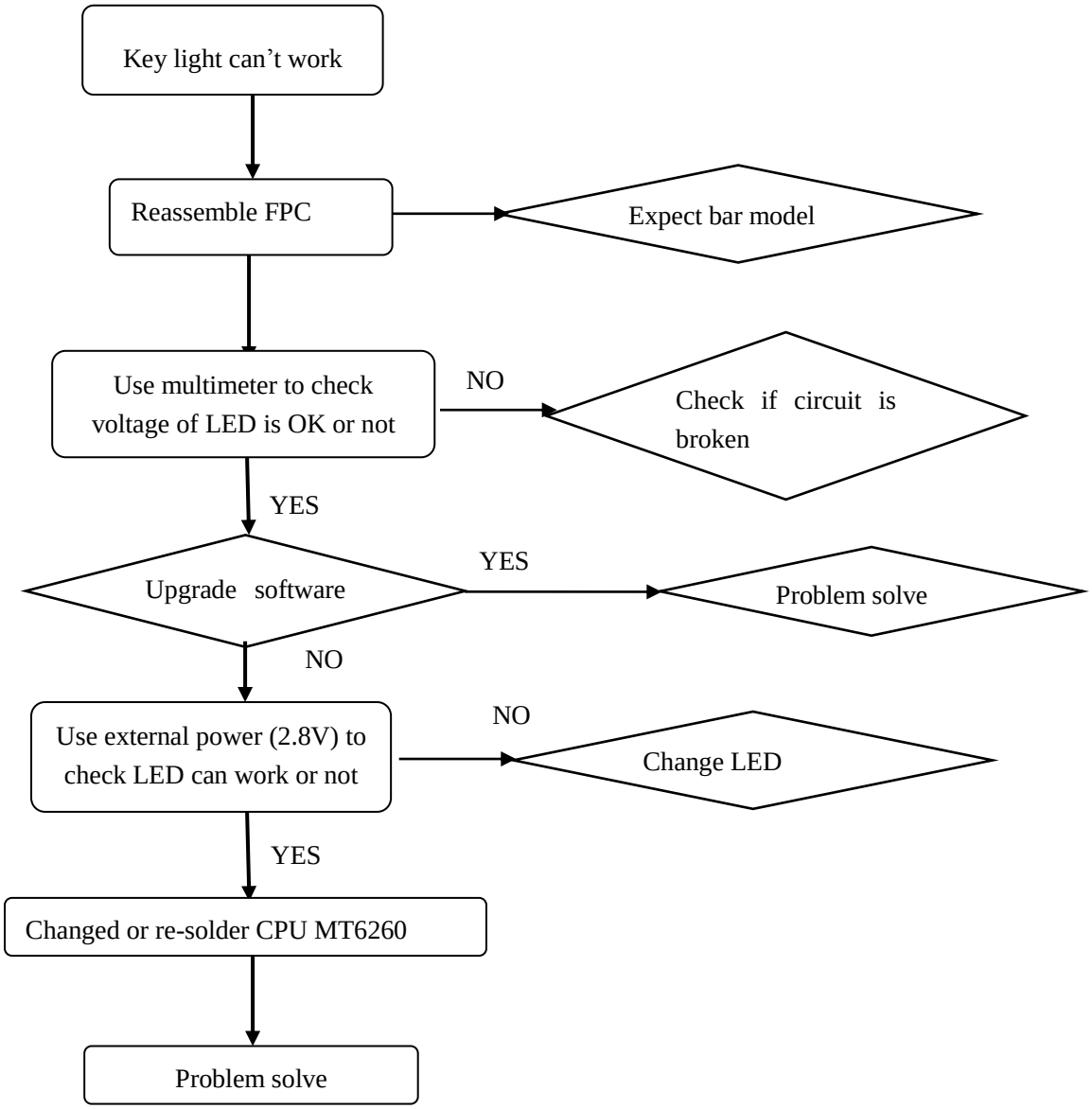
No display or display abnormality



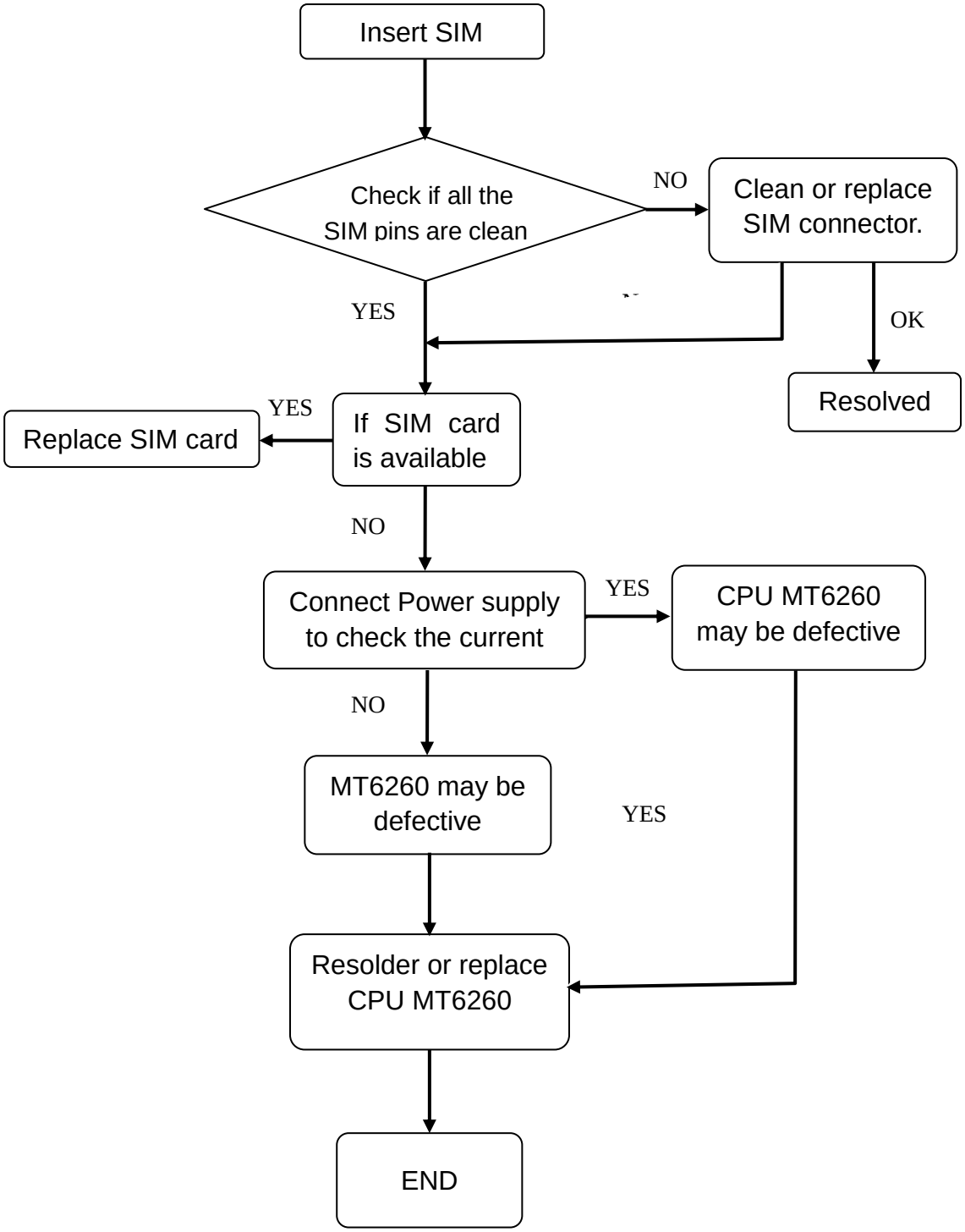
Test process for Key can’t work



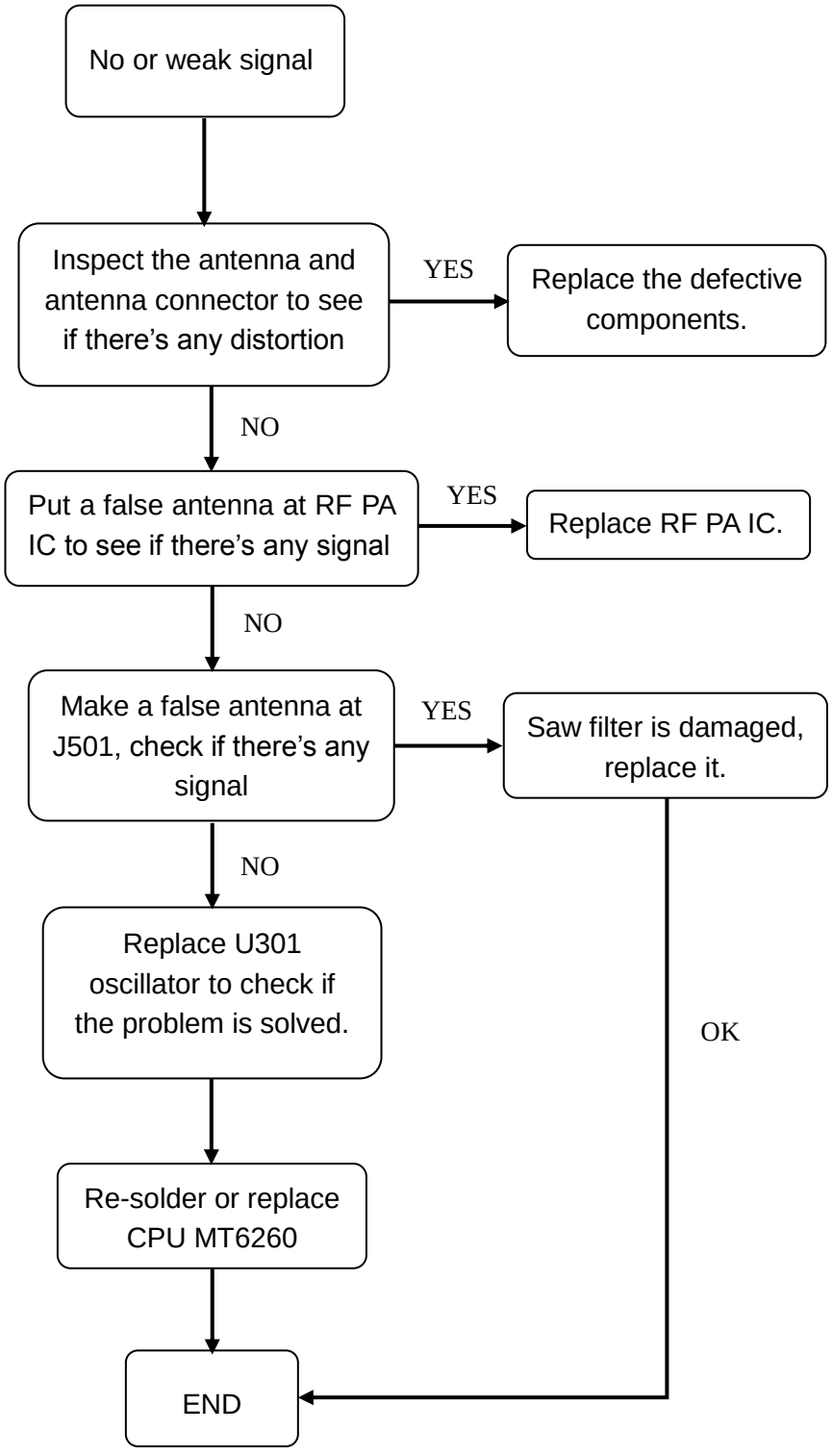
Key light can’t work



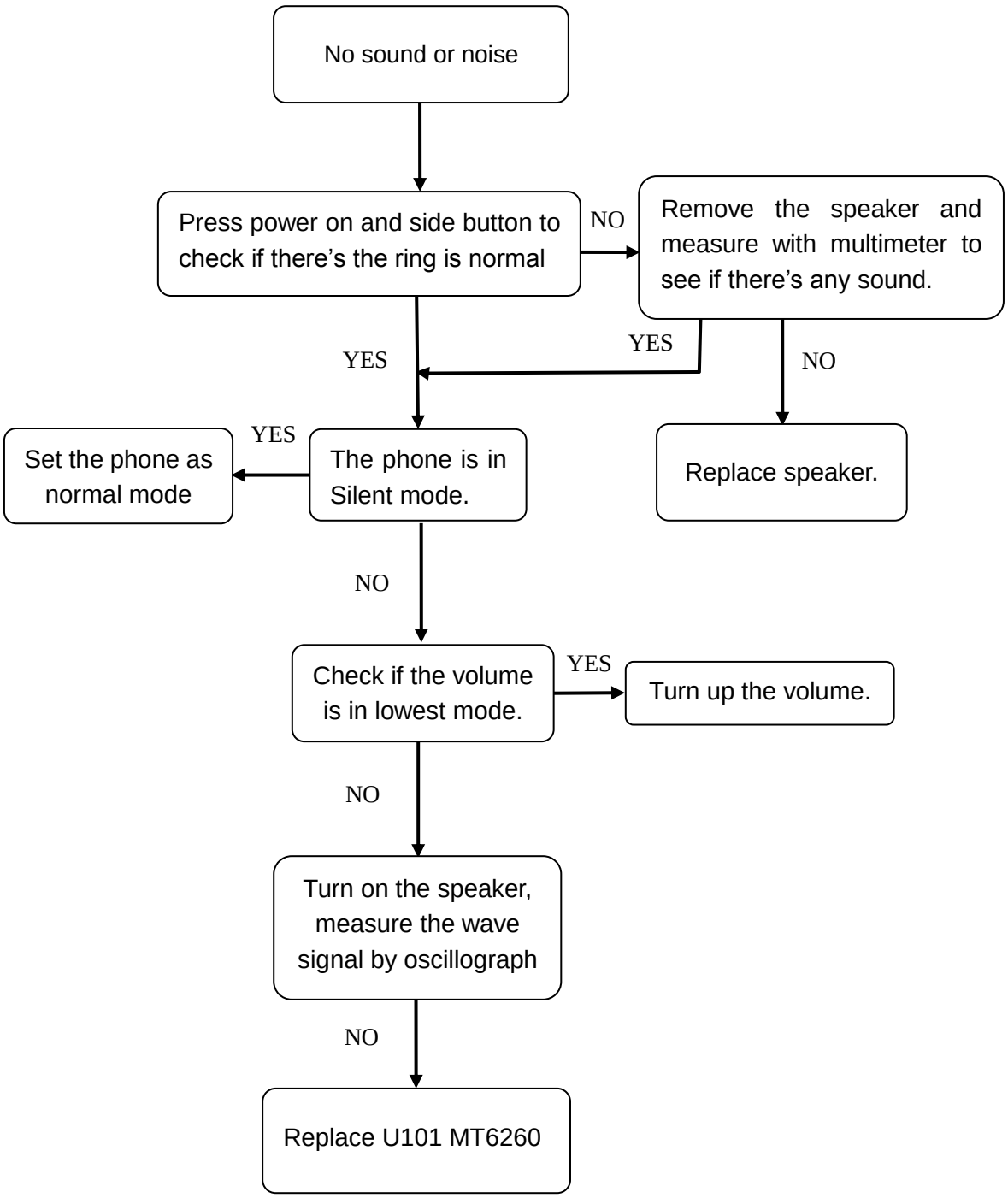
Insert SIM Repair Process



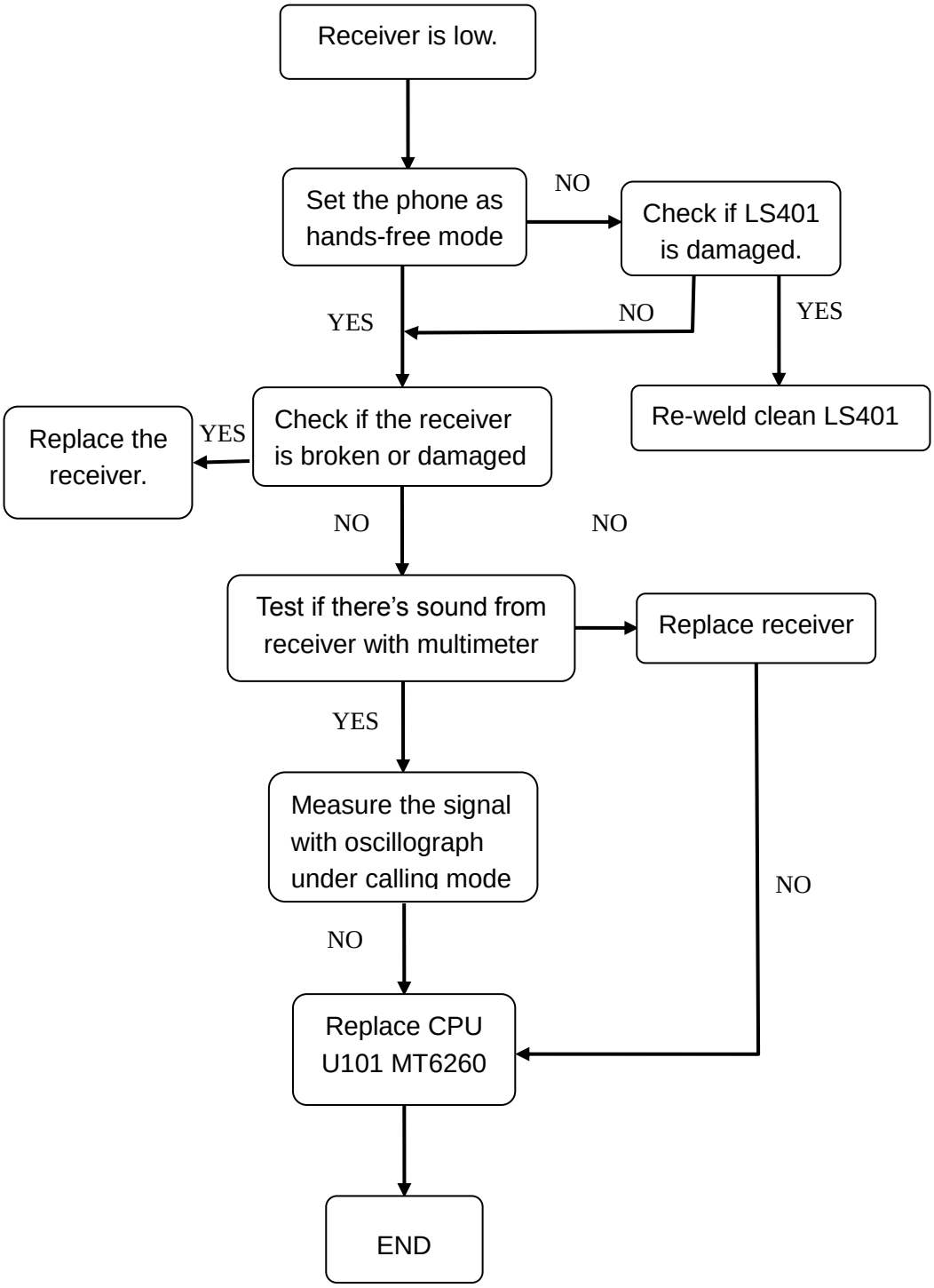
N0/weak signal trouble shooing



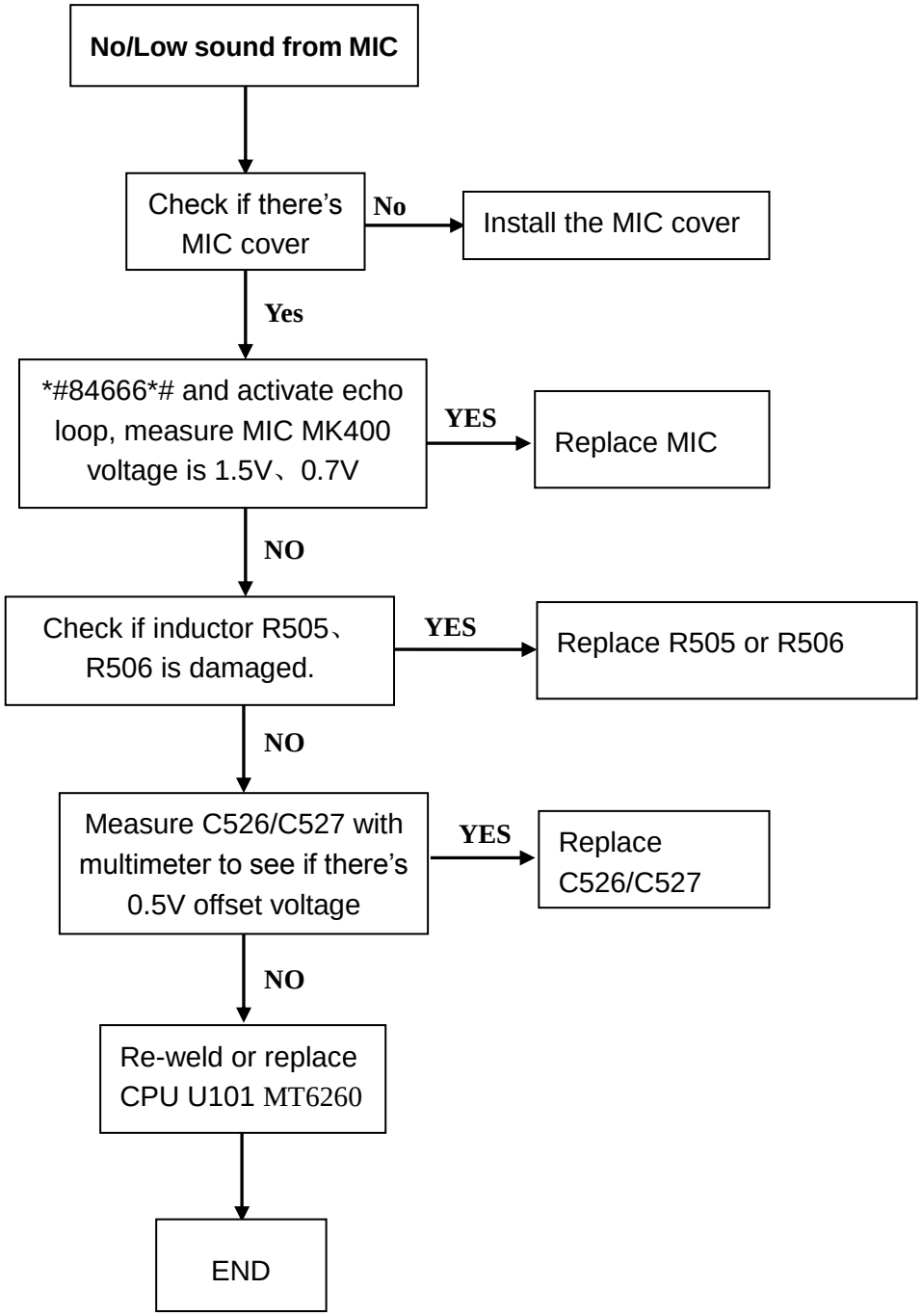
No/Low sound from Speaker



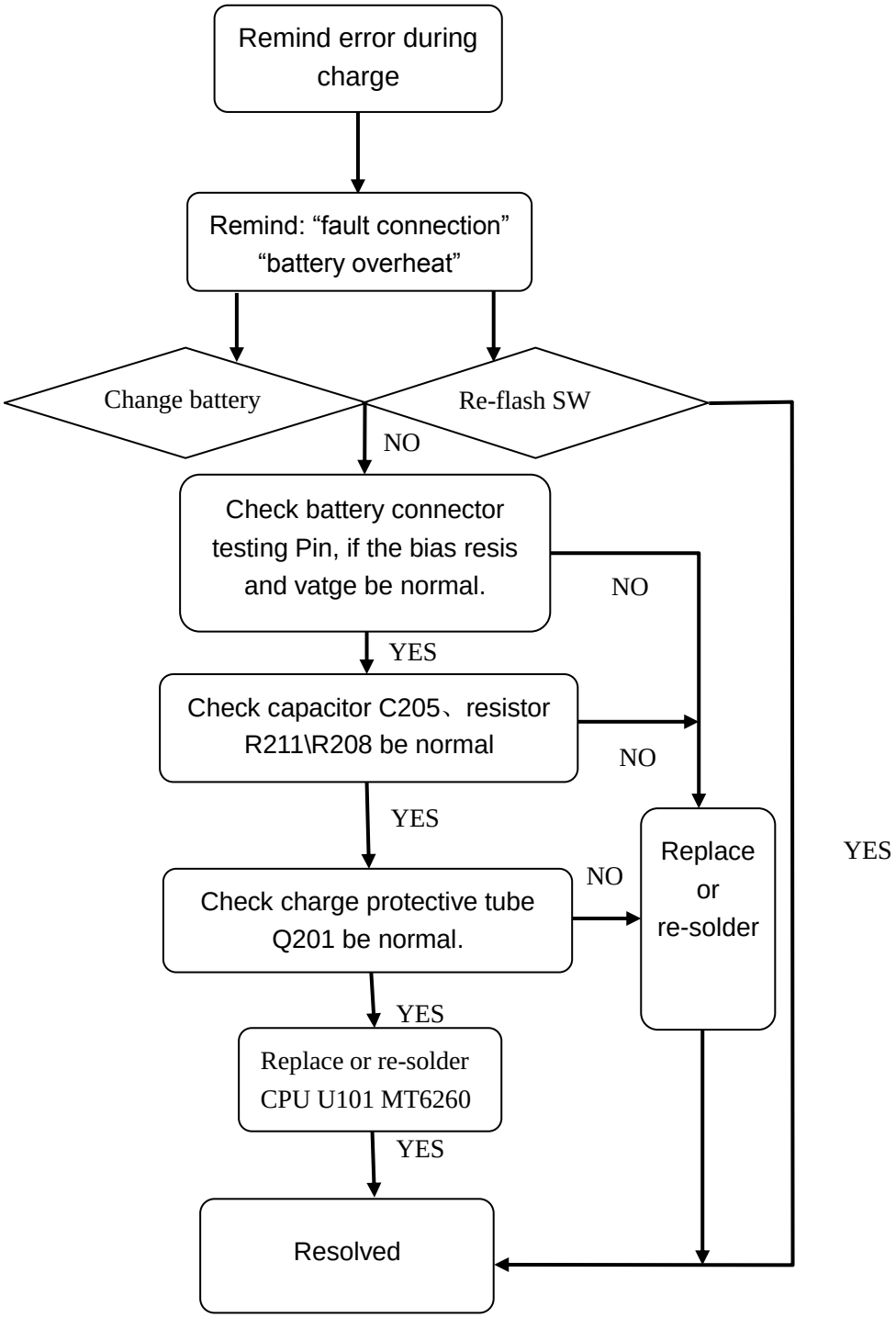
Receiver low voice or no voice



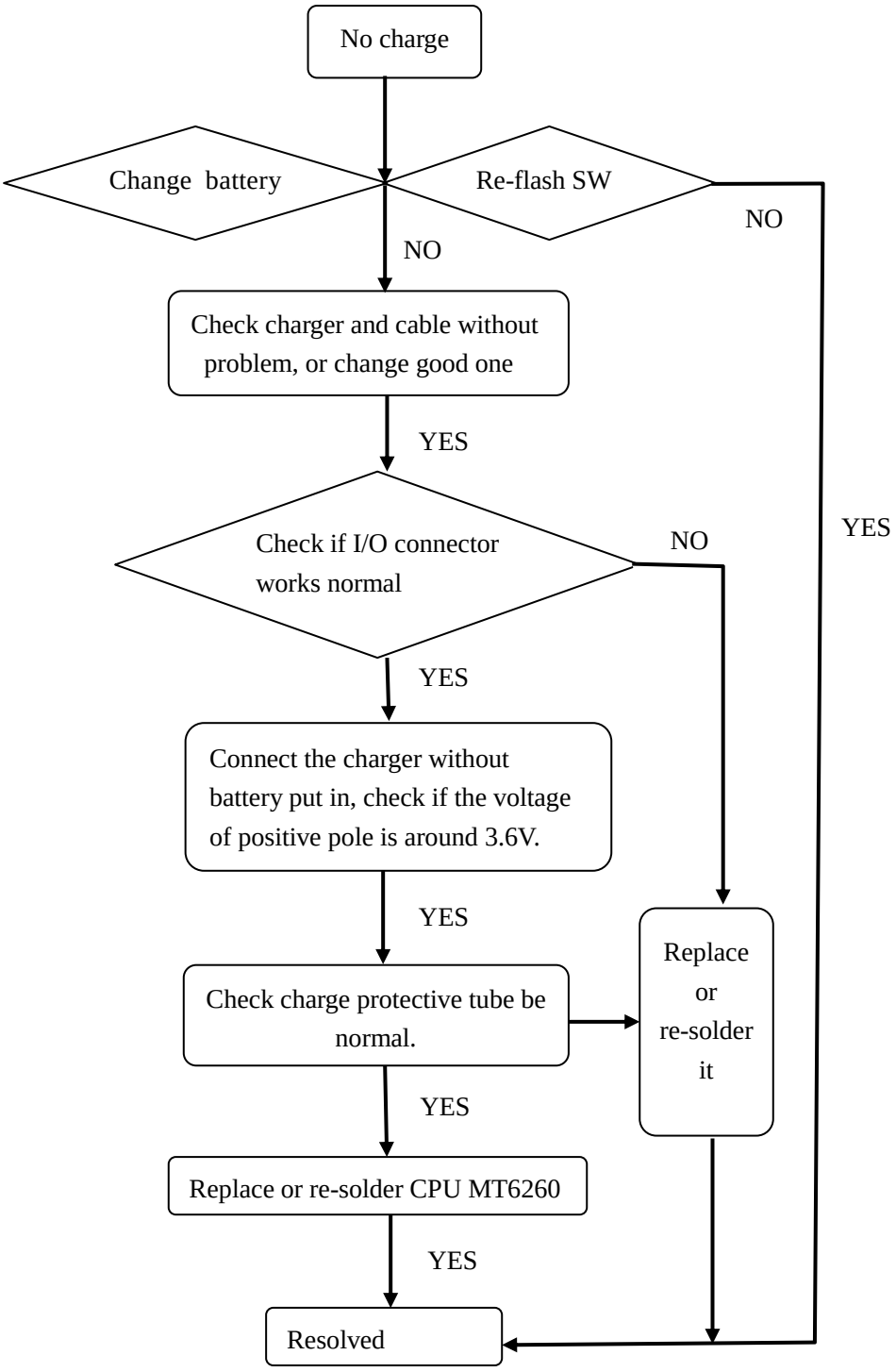
No/Low sound from MIC



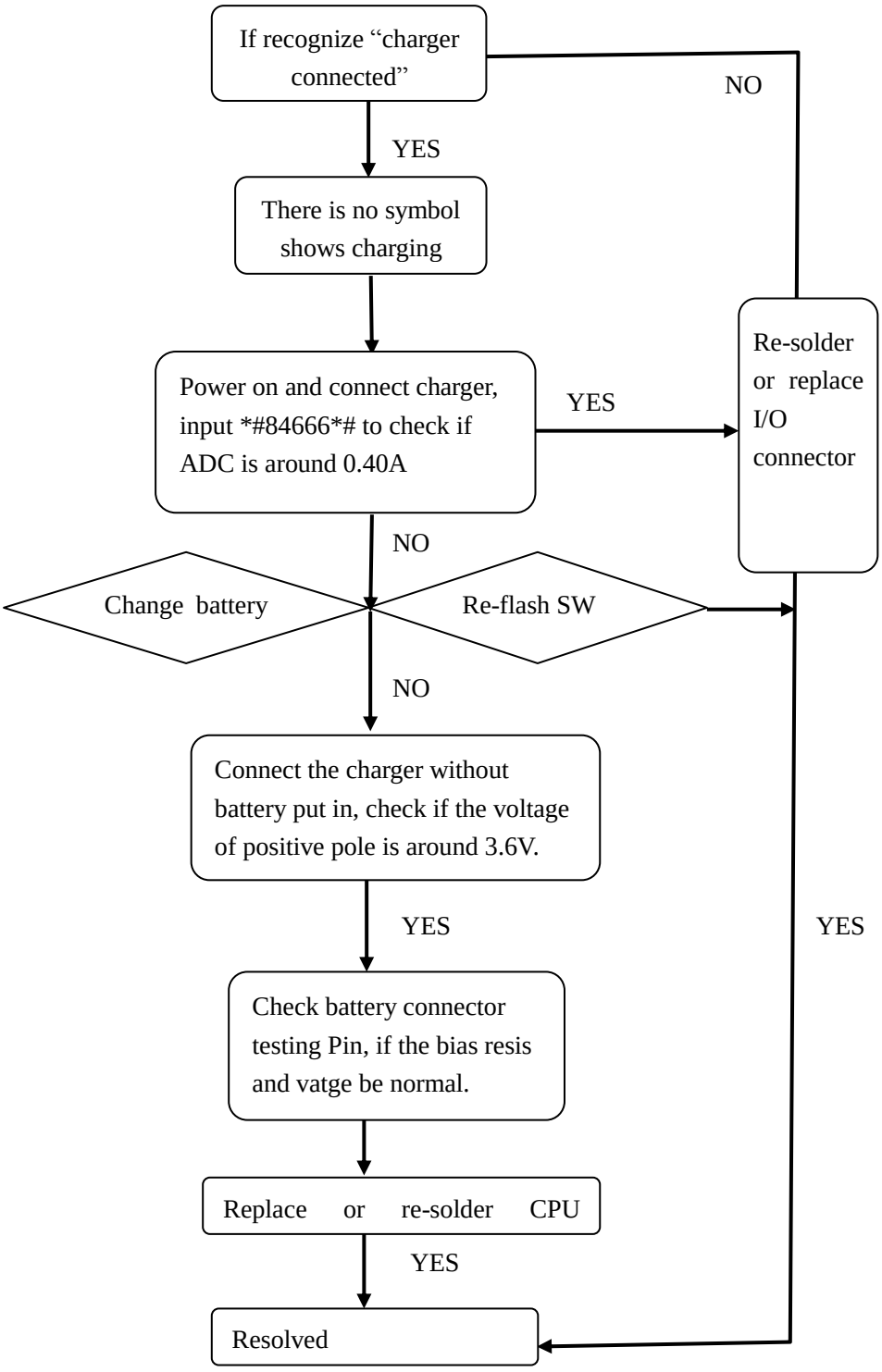
Does not charge – remind error charge



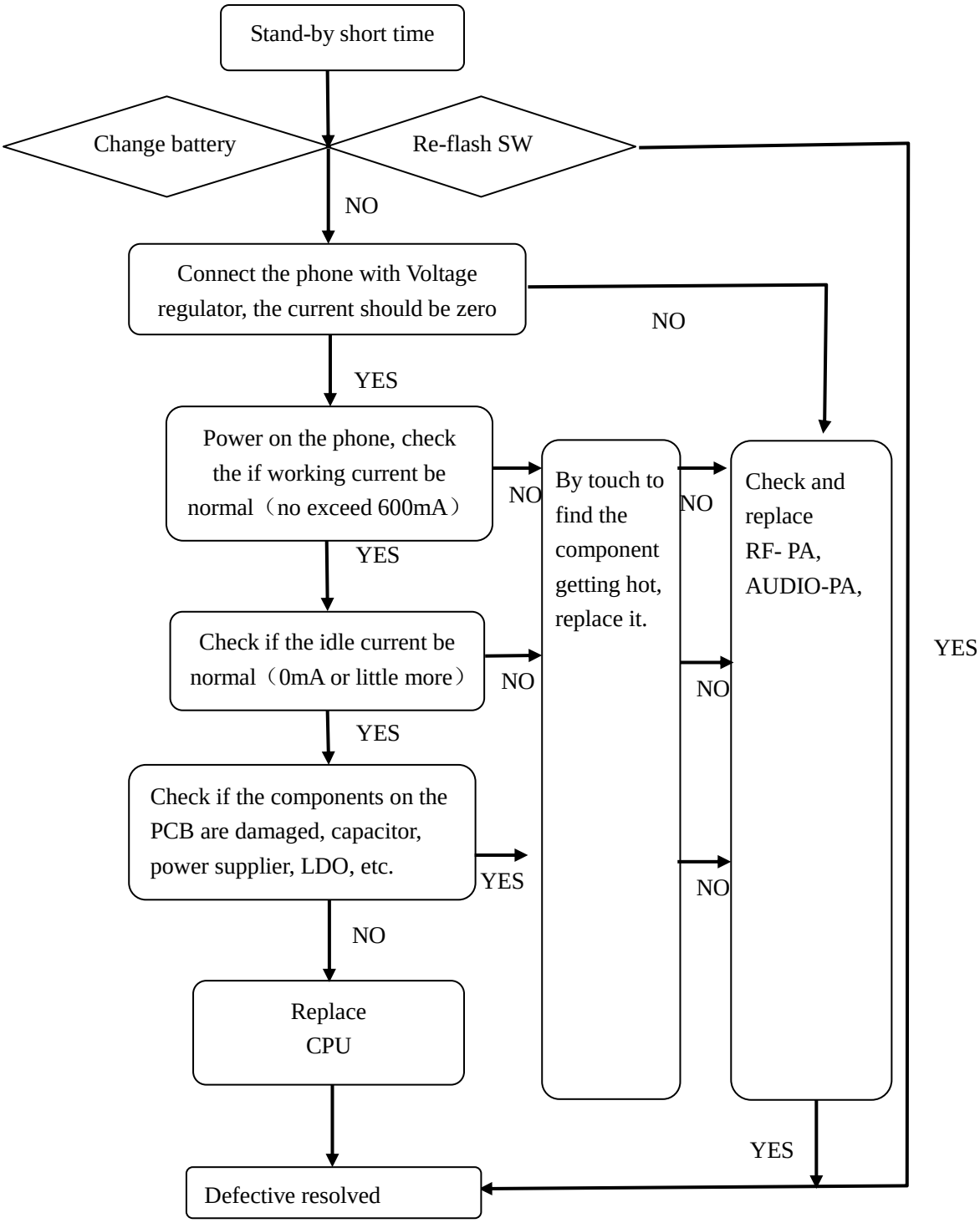
Does not charge – no charge



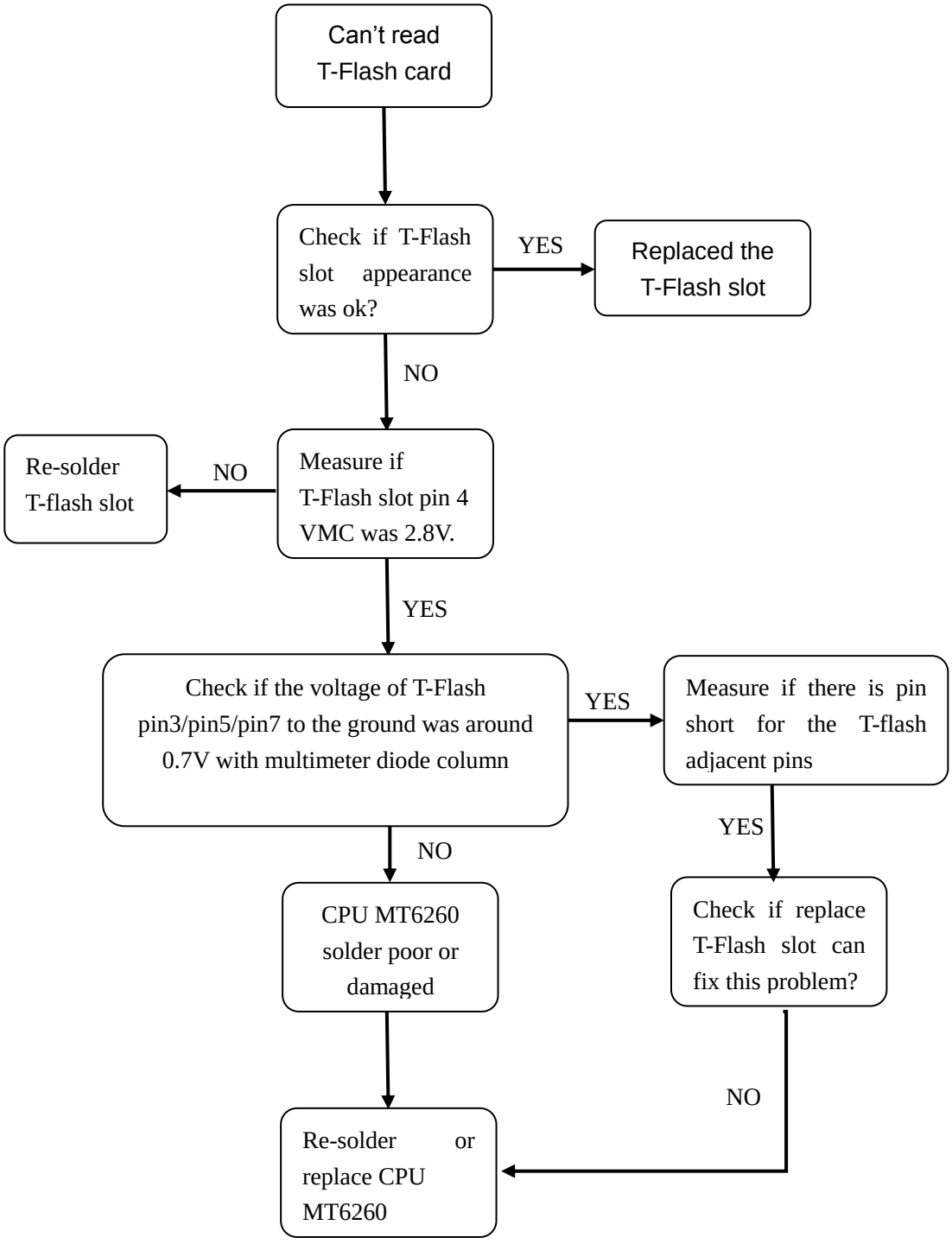
Does not charge – does not recognize charging



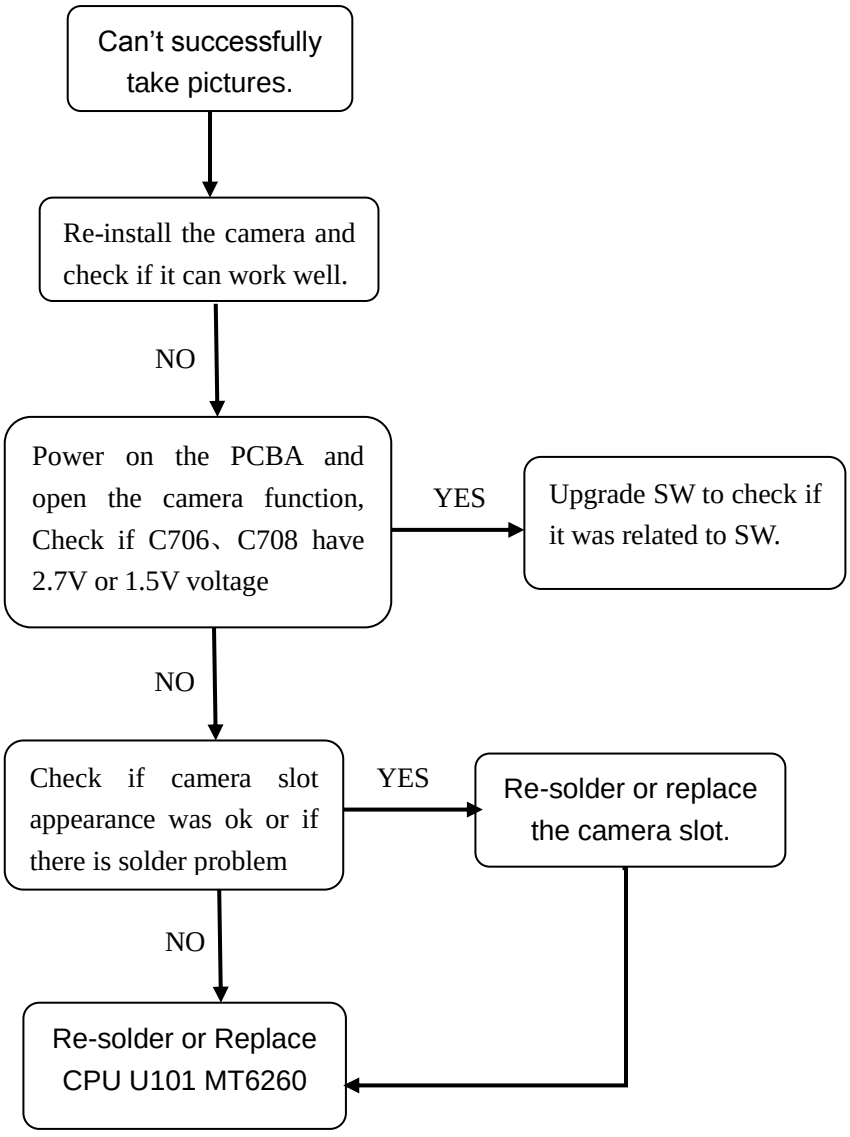
Stand-by short time



Can’t read T-Flash card



Can’t successfully take picture



Chapter 9 Firmware Upgrading Guide

9.1 Firmware Upgrading

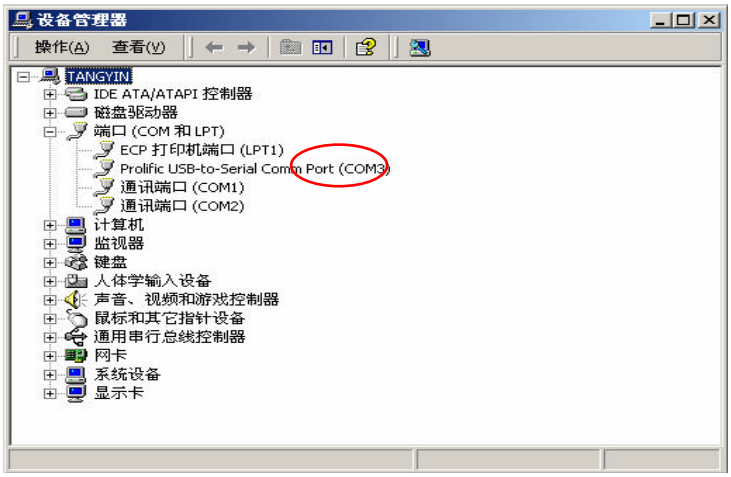
9.1.1 Install USB driver

The maximum downloading speed can be up to 921600bit/s when using USB-Serial cable.

The driver need to be installed before using the USB cable.

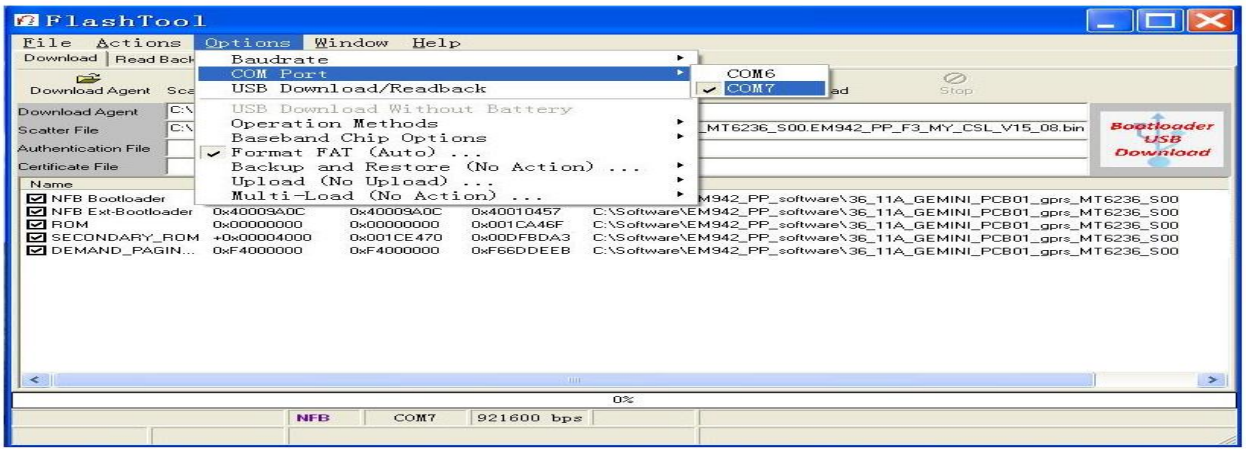
Please keep the USB cable unplugged when installing the driver.

Plug the USB cable when installing is completed. And check device manager of the PC.

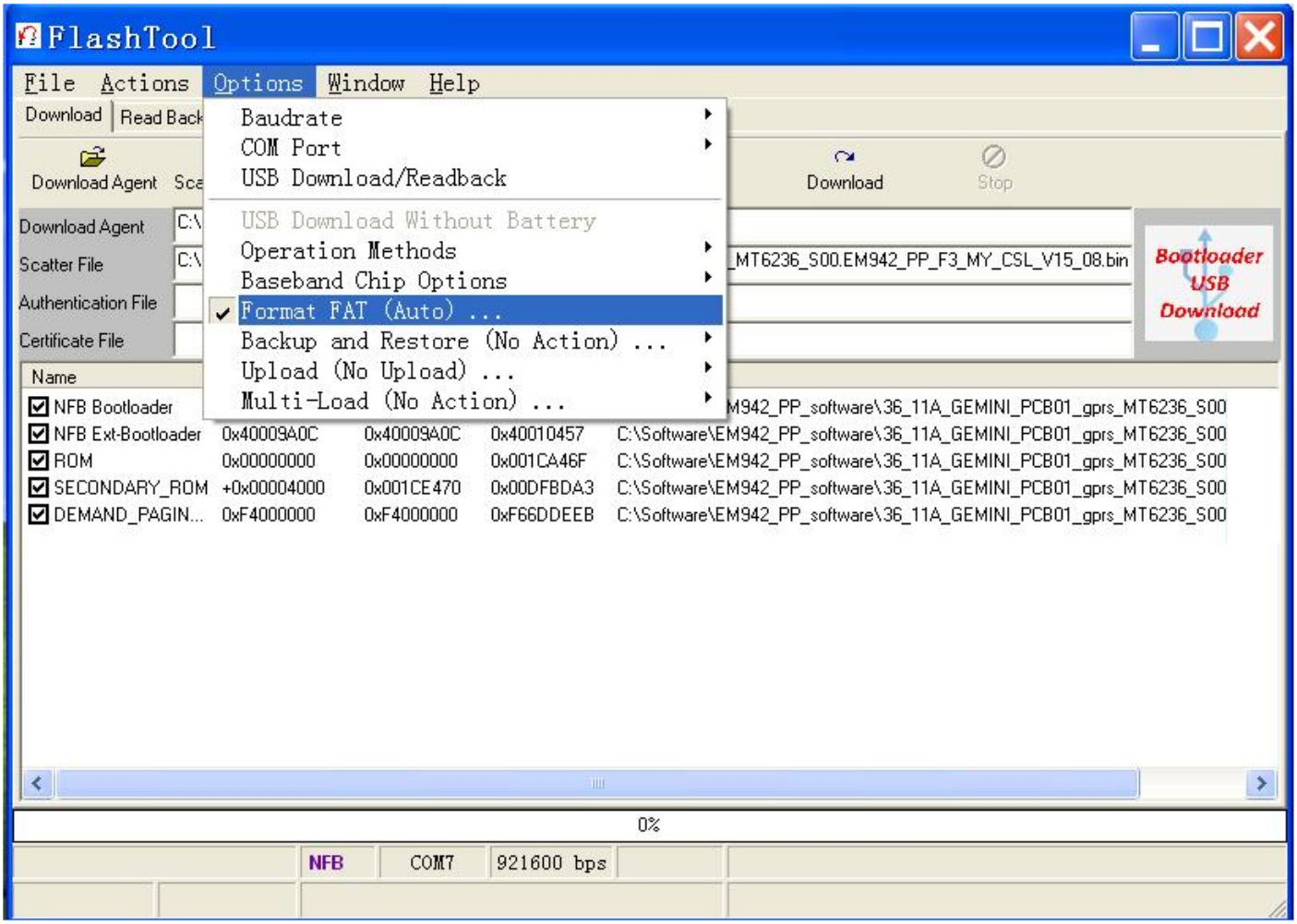


9.1.2 Run the “Flash_tool.exe” of FlashTool_v5.1112.00

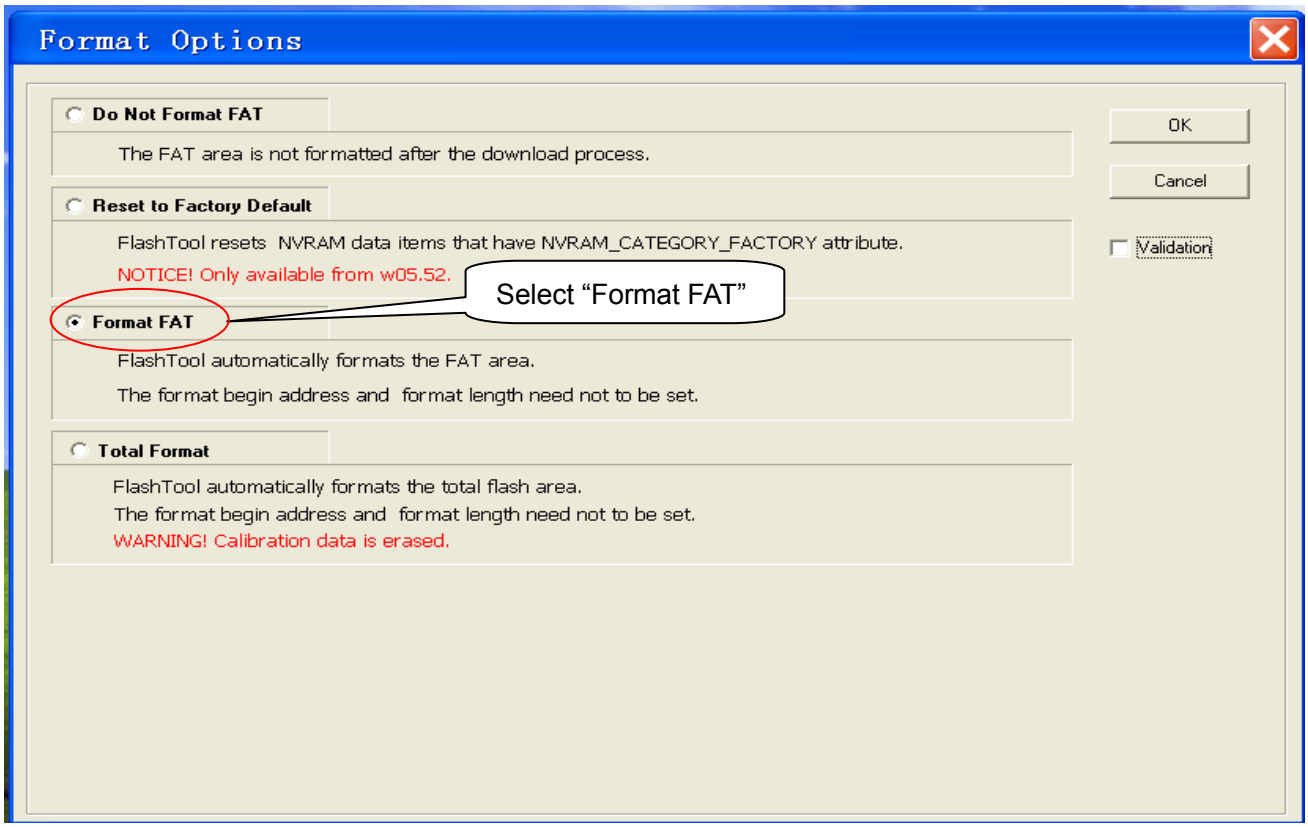
9.1.3 Please select “Options”-“COM port”-Choose the port which is same as the one in “Device Manager”.



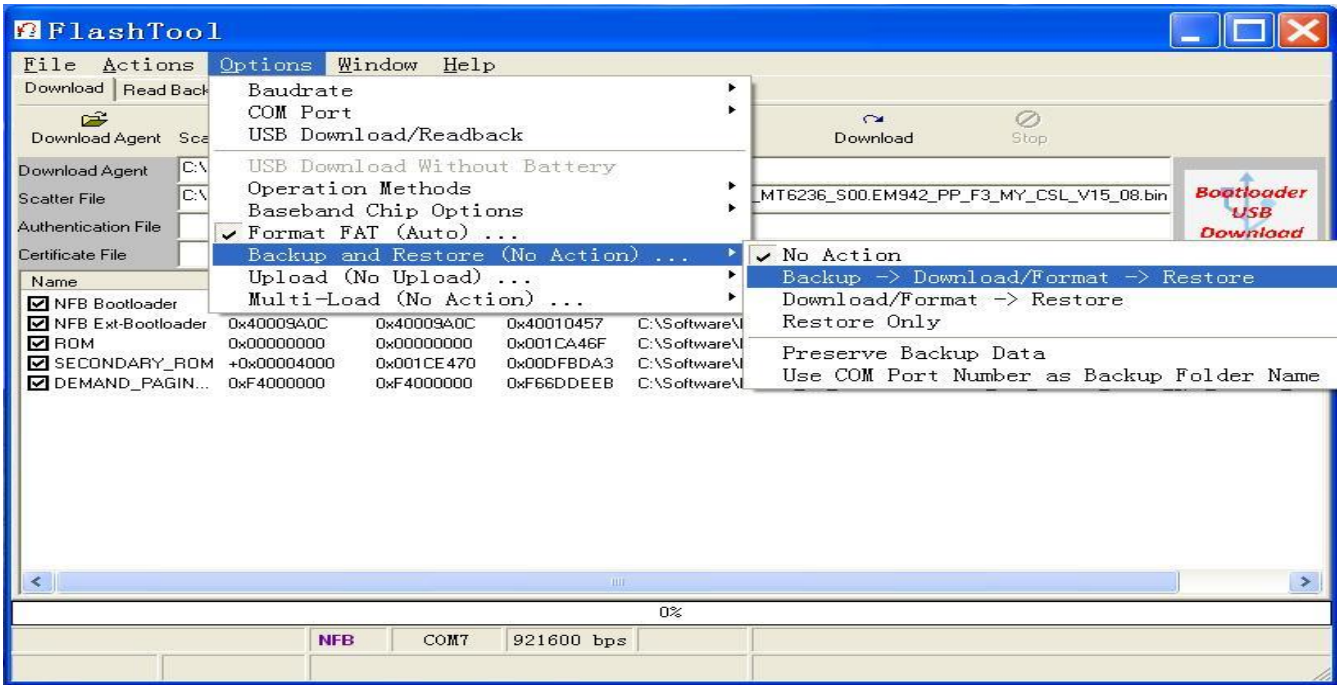
9.1.4 Select “Options”-“Format FAT (DISABLED)…” and please do NOT select “validation”.



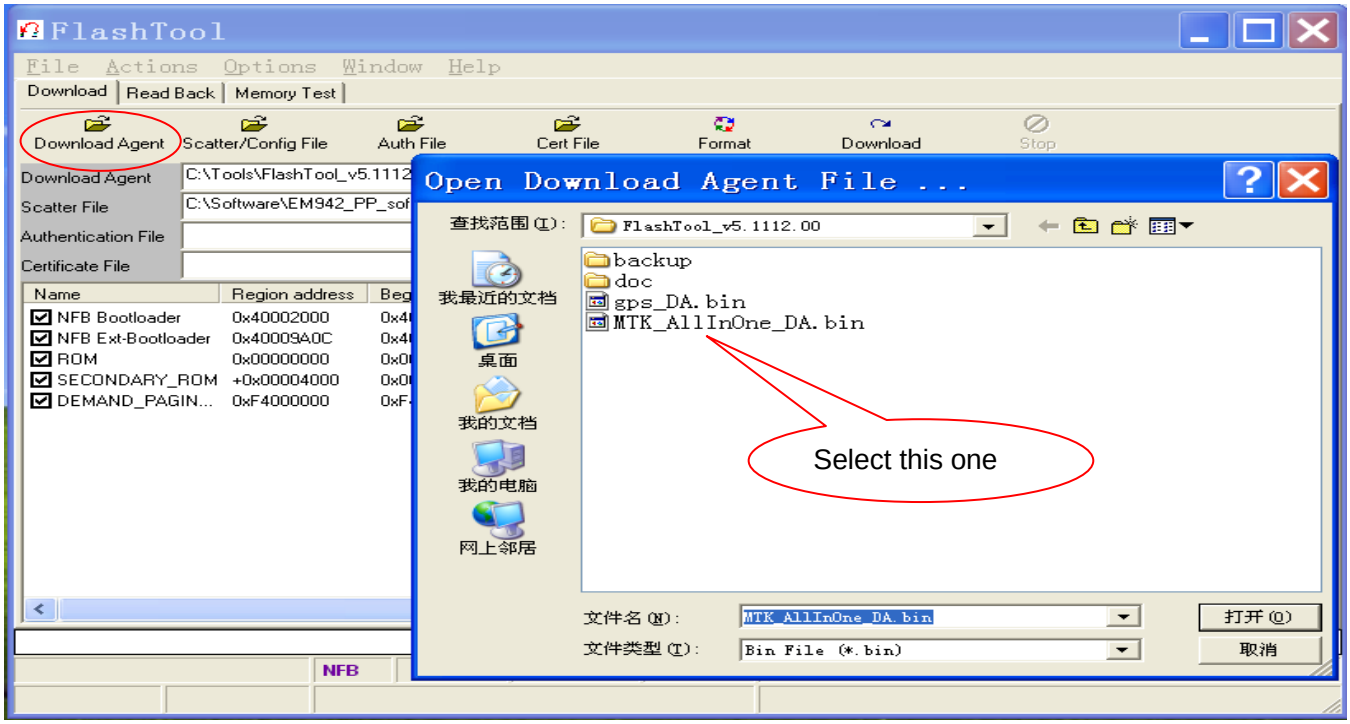
9.1.5 Please select “Format FAT”.

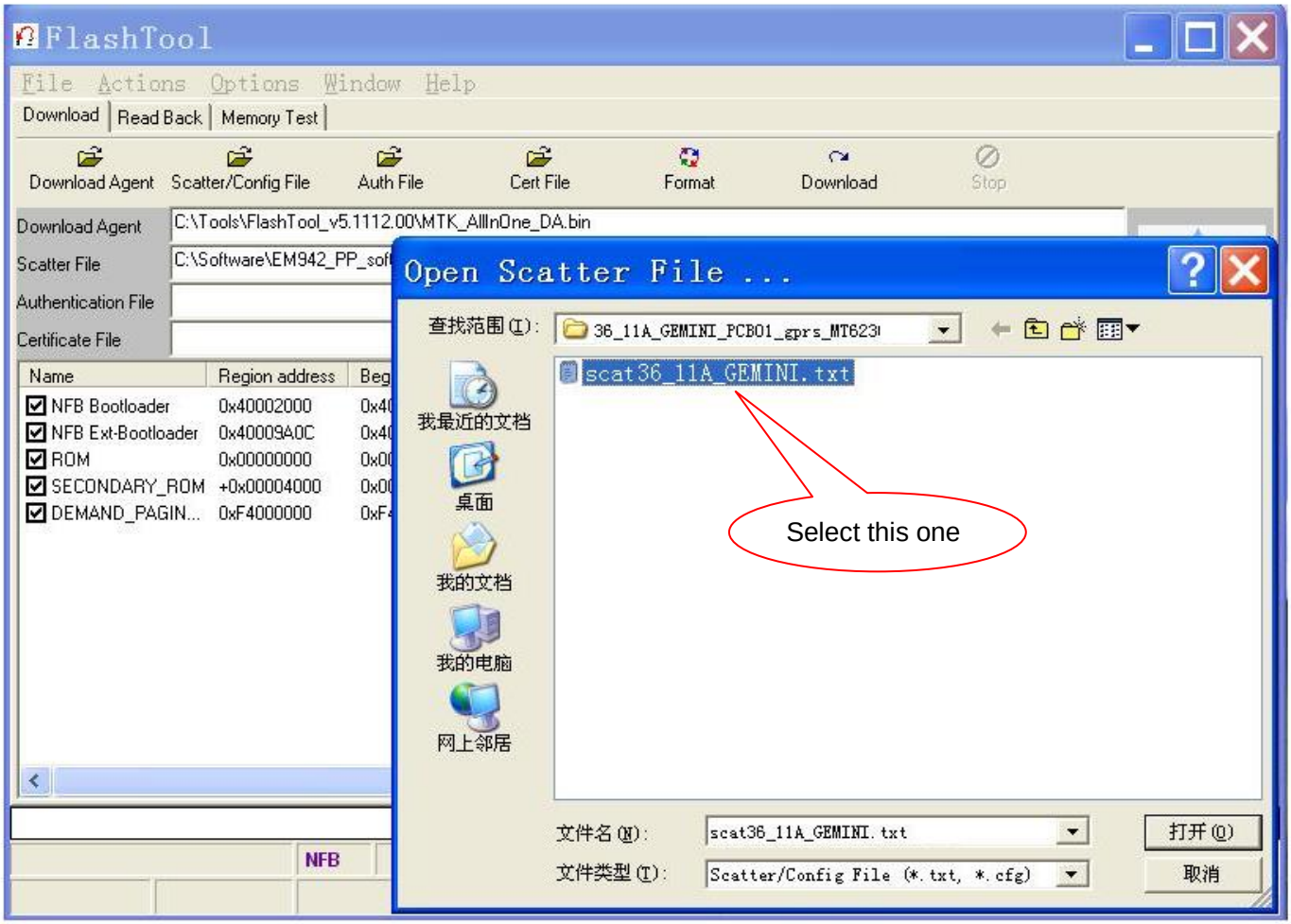


9.1.6 Select “Options”- “Backup and Restore”, then select the “Backup -> Download/format -> Restore”.



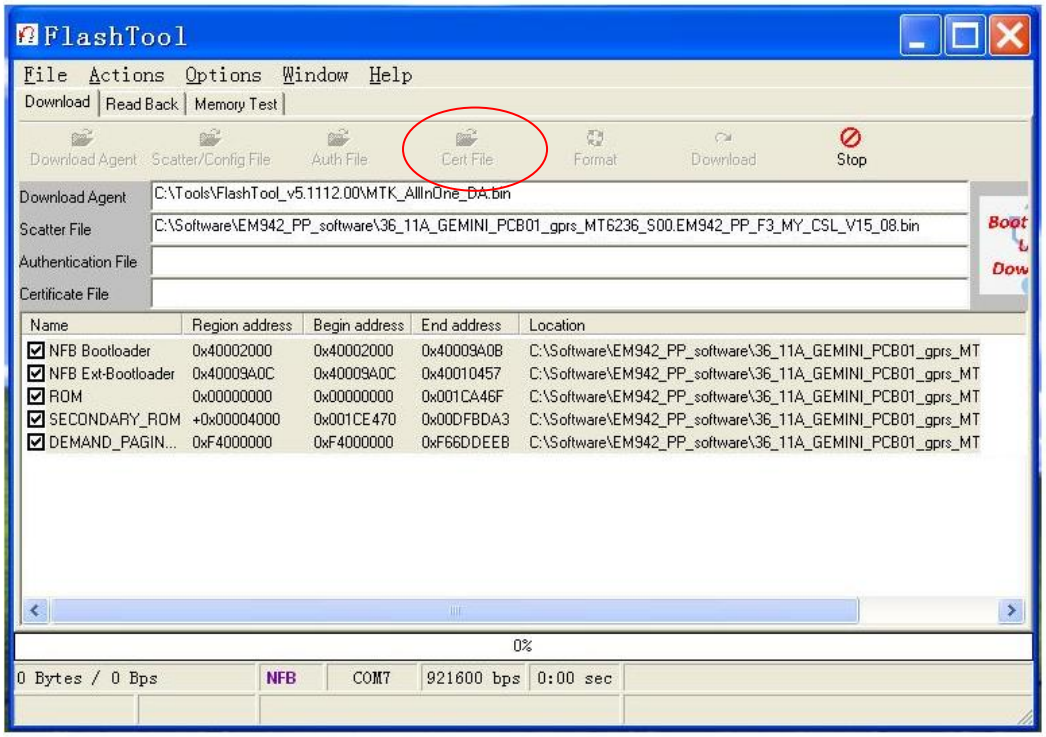
9.1.7 Click the ”Download Agent” and select the file “MTK-ALLInOne-DA.bin”.



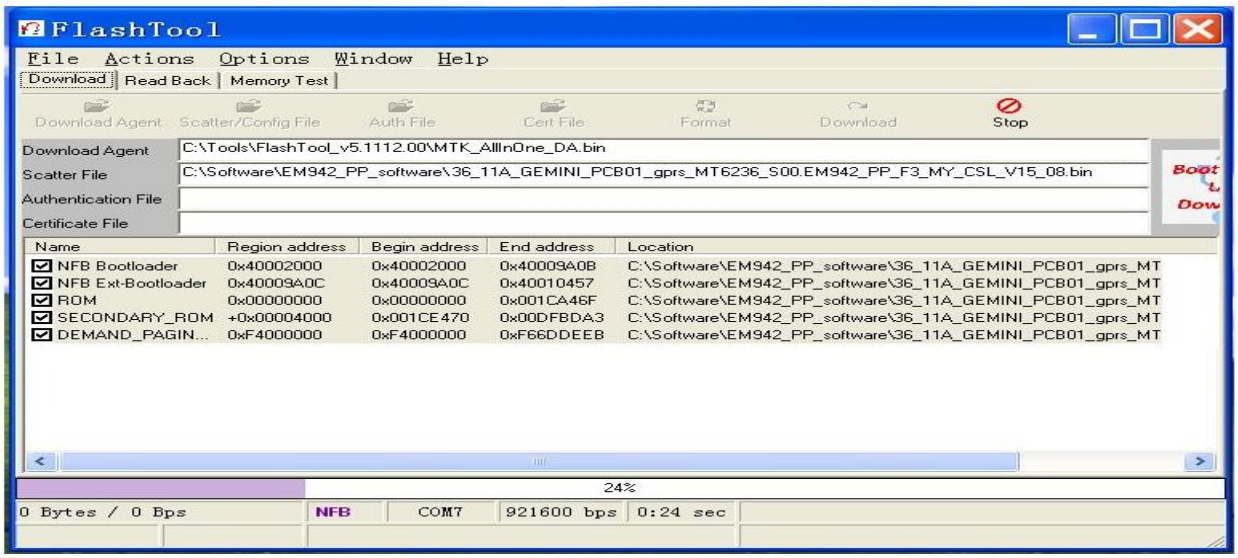


9.1.8 Click the “Scatter/config file” and select the “scat36_11A_GEMINI.txt”.

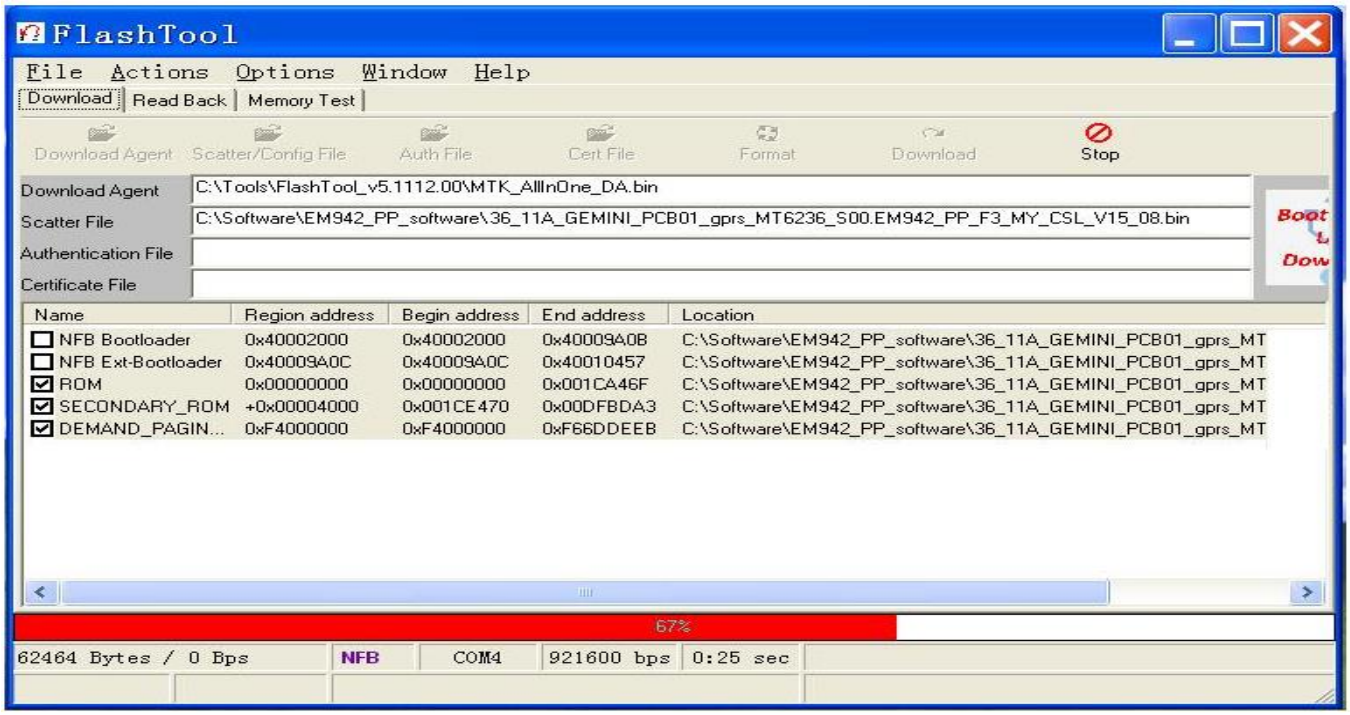
9.1.9 Power off the handset, remove the battery, click “Download”, and connect the cable with handset, then insert the battery, press the power on button, the gray, red, blue, green and gray progress bar shall appear. Then upgrade would be completed when appear “OK”.



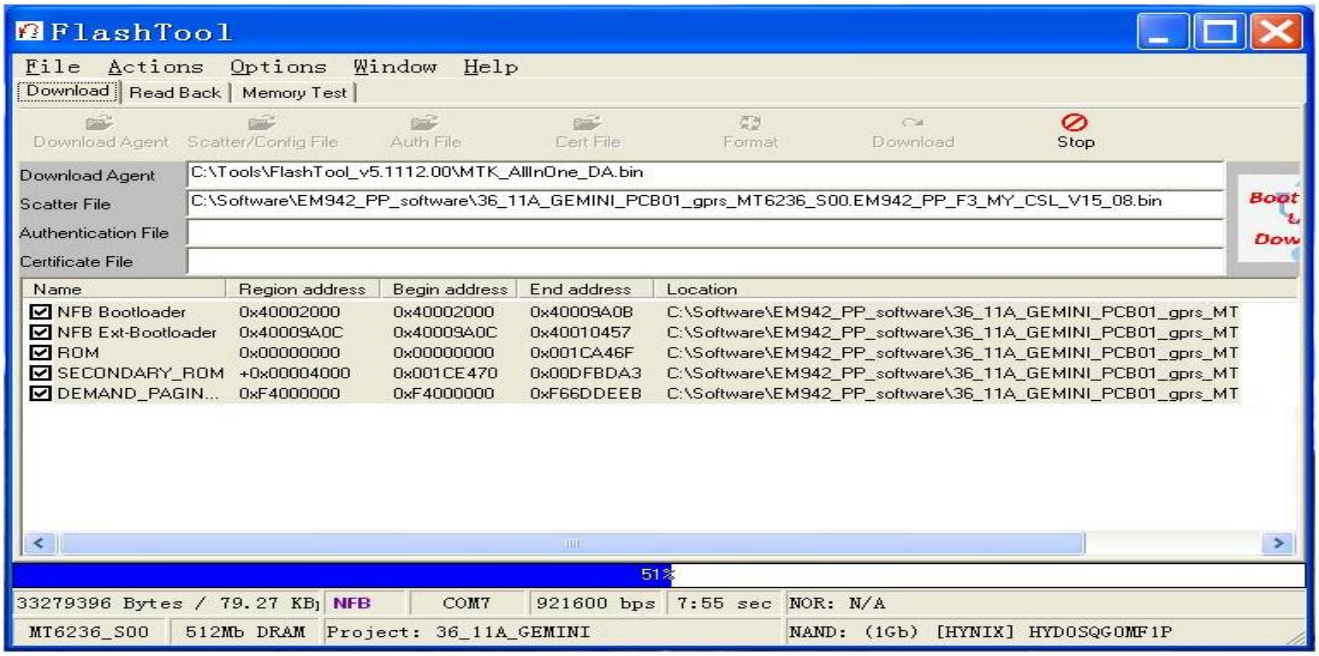
9.1.10 Backup the data. (gray progress bar)



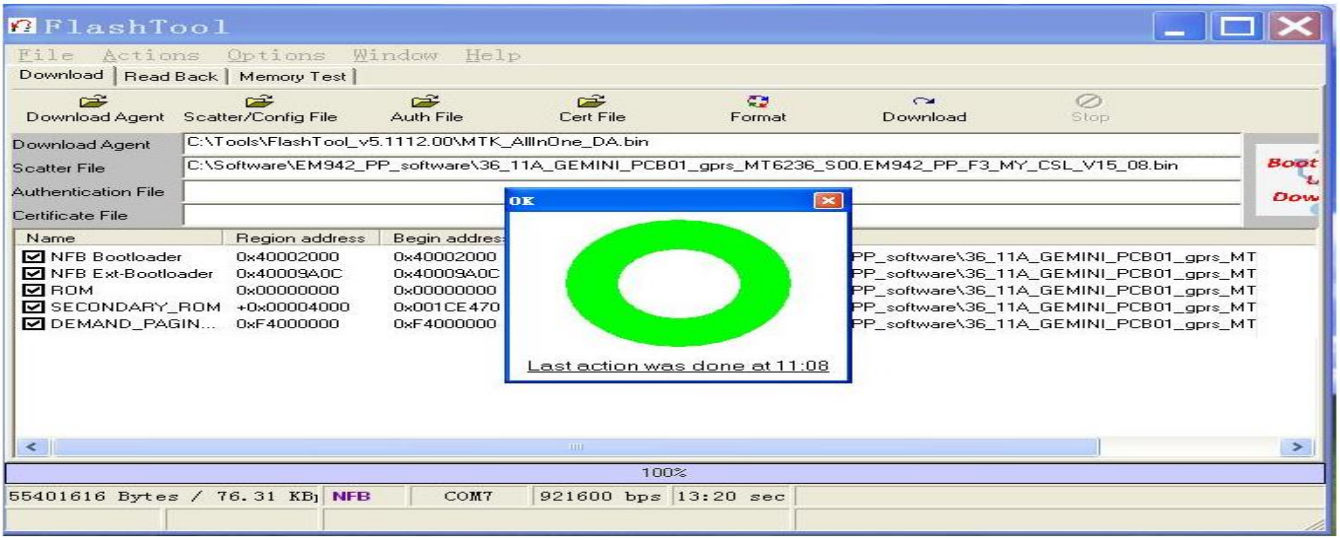
9.1.11 Connect to phone. (red progress bar)



9.1.12 Downloading is in process. (blue progress bar)



9.1.13 Downloading is completed.

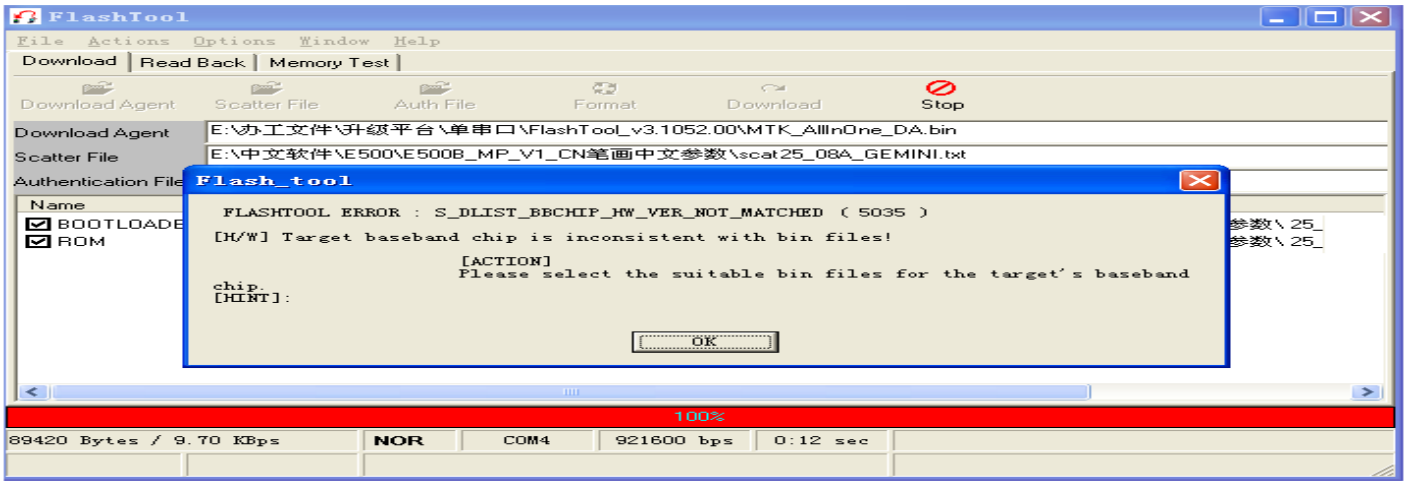


9.1.14 Power on phone and input “*#84666*#”, select “one key Restore”, phone will be reboot, then the user’s setting could be eliminated entirely.

Description: can’t power on(also upgrade software fail)

Root cause: red scroll 100% run completely when upgrade software, the detail as figure 1, also it prove power supply, clock is normal and defective typical issue is focus on CPU or FLASH poor soldering or damage, and maybe software do not fit for hardware.

Corrective action: check software fit for hardware whether or not, resolding CPU and FLASH or exchange new CPU and FLASH.



(figure 1)

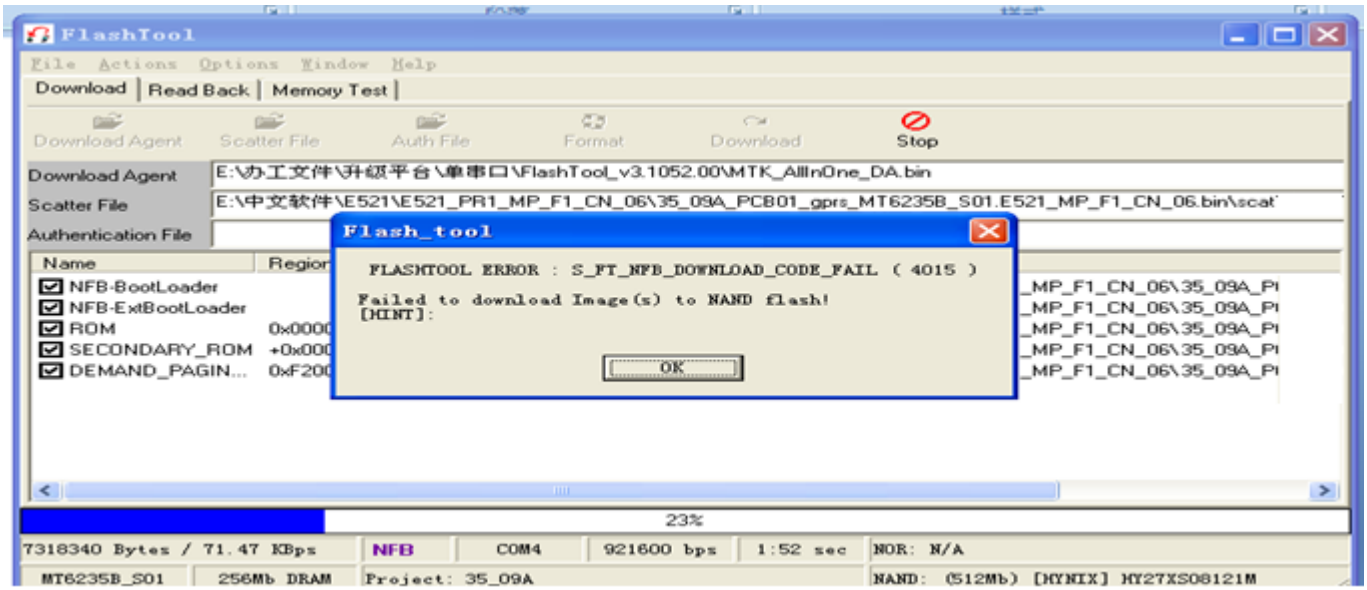
Description: E930 can’t power on (handset is dead when upgrade software.)details as figure 2.

Root cause: the power supply and clock both work on as common during upgrade software.

The typical defective issue as poor soldering or go to fall, other way as exchange

CPU or Flash.

Corrective action: re-solder CPU and Flash, or replace them.



Chapter 10 CIT Testing

Input “*#84666*#” in the standby mode.

1. Version: Confirm the firmware version.

2. Echo Loop: Receiver shall produce sound when blowing over the mic.

3. Keypad: Press every button on the handset until the screen is clear.

4. Vibrator： Press “start” then the vibration shall start.

5. Loud SPK: Press “start” the speaker shall work.

6. Ringtone: Press “start” the ringtone shall be played.

7. LED： Press “OK” to test the LED.

8. LCD: Select “Auto Display” LCD shall perform the self-testing.

9. Receiver： Press “start” the receiver shall produce a sound.

10. Camera: Menu- Camera, test the capture and shooting, no need to save.