

Beetle lite

Beetle lite JB DIGI

ONE TOUCH 4010(D/E/X/A) _4011X



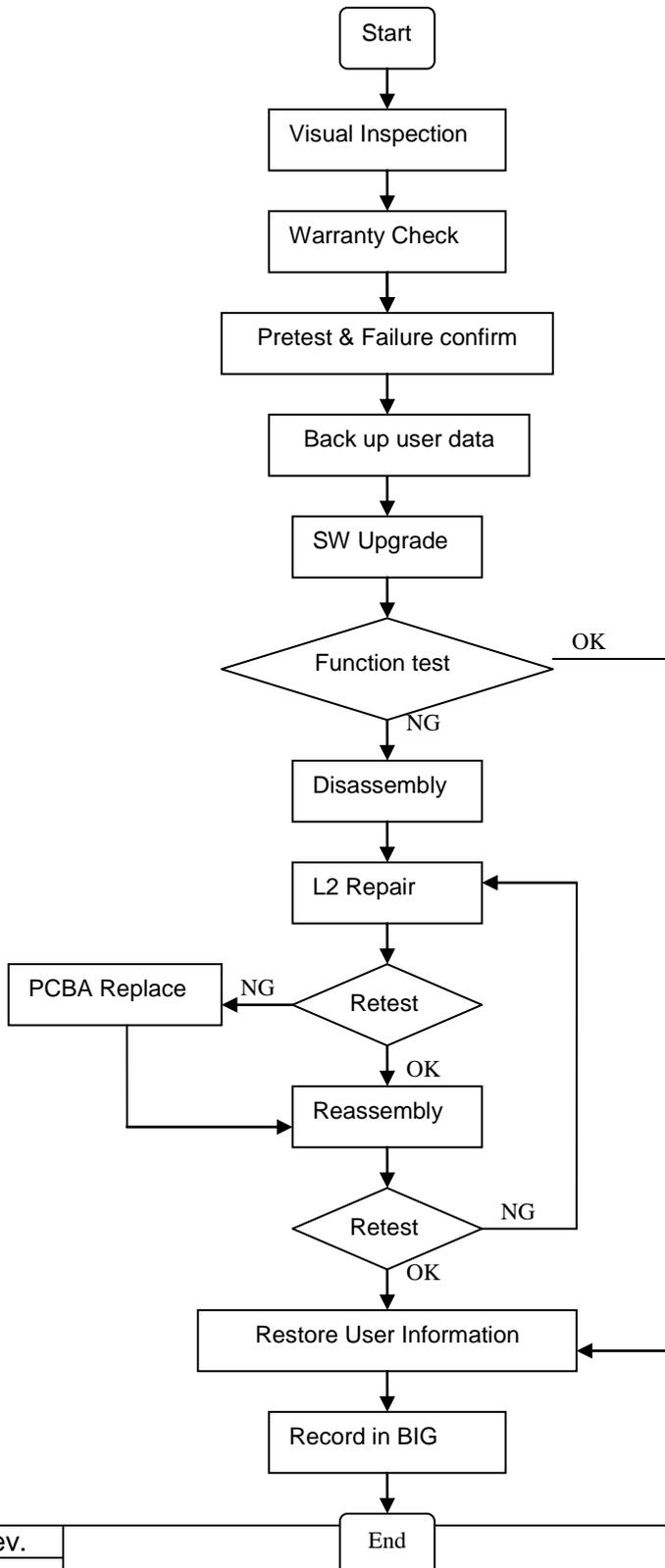
Note: this manual is non-contractual and TCT Mobile Limited can modify it without prior notice on the characteristics of described equipments.

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1.2	2013-8-30	Added the TP repair part(page 17/18)	Echo Huang	Echo Huang	Zhili. Hu
1.1	2013-7-1	Adding the part of blank label	Echo Huang	Echo Huang	Zhili. Hu
1.0	2013-6-20	Adding the part of ONE TOUCH4011X	Echo Huang	Echo Huang	Zhili. Hu
0.9	2013-01-21	Updated according to CPM's comment	Zzhenqing	Echo Huang	Zhili. Hu
0.1	2013-01-07	Draft creation	Zzhenqing	Echo Huang	Zhili. Hu
Rev.	Date	Modification description	Prepared By	Checked By	Approved By

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1 Level 2 repair process



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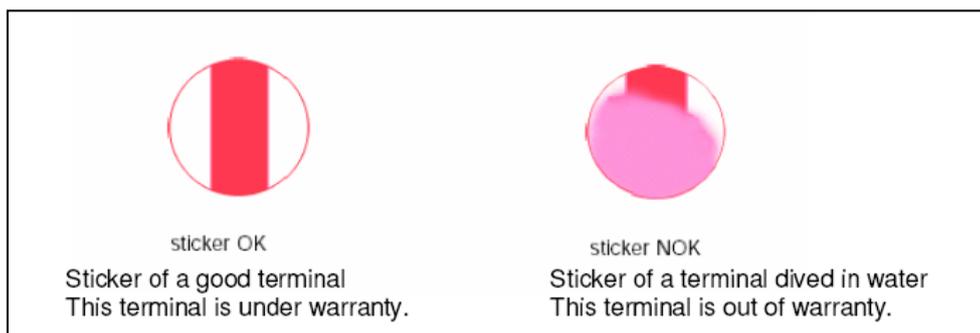
2 Warranty Check and Visual Inspection

2.1 Warranty confirmation of L1

- 1) IMEI sticker check:
 - a) The IMEI number MUST be the same with the one on the IMEI sticker. If not, it's out of warranty policy
 - b) IMEI label should not be
 - Removed
 - Scratched
 - Unreadable
 - Un-approved or un-provided by Alcatel.



- 2) Humidity sticker: Liquid detection on humidity sticker.



2.2 Visual mechanical check

Mechanical warranties check items:

- 1) Corrosion
 - Corrosion on the USB connector, SIM connector, and other metal surfaces.

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- 2) Hole (diameter > 1mm)
 - Holes on any surface, including the front casing, furnished frame, battery cover, touch Lens, keypad...
- 3) Bump
 - Bumps (diameter > 1mm) on any surface, including front casing, decorate frame, battery cover, touch Lens, keypad, etc.
- 4) Scratch
 - Scratches (length > 3mm) on any surface, including the front casing, decorate frame, battery cover, touch Lens, keypad, etc.
- 5) Distortion
 - Bend, twisted or crushed on the h/s, cover/casing or connectors, etc.
- 6) Broken
 - Touch broken, casing/cover broken, etc.
- 7) Dropped
 - Keypad tears off, touch lens, connectors dropped, etc.
- 8) Gap
 - External physical damage relating to abnormal use, like front case and frame opened
- 9) Others
 - Damage caused by disassembly ,wrong part assembly, loss of components
 - Use in abnormal environment like high temperature causing plastic melts

2.3 Pretest

- 1) Check that the SIM card is set correctly.
- 2) Insert the battery.
- 3) Power on the cell phone.
- 4) If the cell phone cannot power on, visually check the condition of the battery connector. Replace it if necessary.
- 5) If the cell phone asks to input NCK code, this means it is SIM locked and can only be worked with dedicated SIM card. Use the correct SIM card.

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6) Enter the phone code if necessary.

7) After the phone power on, test step by step with the auto test code:

Press *#2886# in dial screen and select "Auto" to start the auto test, then you will see the interface displaying the version. Press "Pass" to continue.

If one of the test failed, it will ask you "Restart?", press "YES" to restart the auto test from the first one and "NO" to exit the auto test, while "NEXT" to continue the auto test.

■ TRACABILITY Test

I. You can get some information such as IMEI, CU, BT, WIFI, etc...

II. Press "Pass" to continue.

■ TP

I. "Please draw the yellow data" according to instructions and it will show "TEST RESULT: OK!"

II. Press "PASS" to continue.

■ LCD MIRE/BLACK/GREYCHART/WHITE

I. You will see the LCD color changes if it functions well

II. Press "Pass" to continue.

■ LCD BackLight Level

I. The screen backlight will be flashing if it functions well.

II. Press "Pass" to continue.

■ KEYPAD.

I. Press the key displayed on the screen. The key on the screen will disappear when you press it if it functions well

II. Press "Pass" to continue;

■ Flash LED Light Test.

I. The light near the camera will flashing.

II. Press "Pass" to continue.

■ CAMERA IMG

Press "Pass" to continue if the camera functions well

■ CAMERA IMG FRONT

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Press "Pass" to continue if front camera functions well

■ CAMERA LED

- I. Camera LED will be turned on if functions well.
- II. Press "Pass" to continue.

■ MELODY

- I. You will hear the melody if it functions well.
- II. Press "Pass" to continue.

■ HEADSET

- I. Insert the headset and you will hear FM if functions well
- II. Press "Pass" to continue
- III. Remove headset according the instruction and it will say "Headset tested" if it functions well;
- IV. Press "Pass" to continue

■ USB

- I. Insert USB cable and the phone will detect "Charger: OK" "USB: OK" if it functions well
- II. Remove USB cable according to the instruction and then press "Pass" to continue

■ VIBRATOR

- I. You can feel the phone's vibrating if it functions well.
- II. Press "Pass" to continue.

■ G-SENSOR

- I. Screen will display "put the handset up and towards up", follow this prompt screen will display left arrow, right arrow, up arrow, down arrow and face down arrow. Put the phone to the positions according to the arrows' direction. It will say "all positions checked" if functions well
- II. Press "Pass" to continue

■ ALS/PS

- III. It will say "Proximity Sensor detected", put the phone near your skin and then move away from your skin. values such as "near->far:2" will be shown if functions well;
- IV. Press "Pass" to continue

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- SIM
 - I. Insert the SIM card and the phone will detect it if it functions well
 - II. Press "Pass" to continue
- MEMORY CARD
 - III. Insert the Memory card and the phone will detect it if it functions well
 - IV. Press "Pass" to continue
- a) BT
 - V. The phone will running the BT and show the BT address on screen
 - VI. Press "Pass" to continue
- b) WIFI
 - I. The phone will running the WIFI and search available network
 - II. Press "Pass" to continue
- c) GPS
 - III. The phone will running the GPS and search satellite
 - IV. Press "Pass" to continue
- BATTERY TEMP
 - I. Battery temperature will be displayed on the screen
 - II. Press "Pass" to continue
- CALL
 - I. You will hear a voice prompt which introduces some emergency call numbers if functions well;
 - II. Press "Pass" to continue

3 Software download

It is authorized to download software for the handset which needs to be updated. This downloading tool is called SW upgrade tool. Handset Software can be downloaded from TS website via it. Thus internet access is necessary. TS Website: <https://css.tclmobile.cn/>.

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Plastic Flake



Tweezers



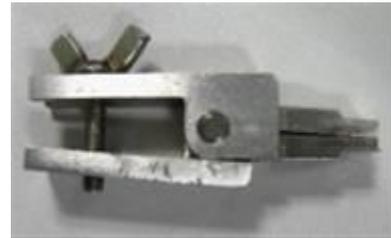
Hot wind gun



Screwdriver



Soldering iron



Camera Jig

4.3 Disassembly process

The steps of disassembly ONE TOUCH 4010 are as below.

This module should only be disassembled from bottom to top.

Step 1: Remove the battery cover and battery.

Step 2: Take off the 4 screws from the furnished frame by screw driver



Step 3: Pry the furnished frame up by plastic flake. Then separate the furnished frame from furnished front casing.

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Step 4: Remove speaker with plastic flake



Step 5: Separate below FPCs with BTB connector socket by using tweezers.

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Step 8: Swipe along the four edges of LCD model with plastic flake and separate it from main PCBA slowly and carefully.



Step 9: Remove power key FPC and volume keypad FPC by using soldering iron (Temperature: Lead-free technology $330^{\circ}\text{C}\pm 10^{\circ}\text{C}$, time: 2~3 seconds).



Step 10: Separate touch lens from furnished front casing by using hot wind gun to heat up touch lens around the four edges (Temperature: 100°C , Air Level: 3, Height: 5-10mm, Time: <60s).

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Battery connector	40s	Hot wind gun Tweezers	Class3	The connector is easy to be damaged
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5 Disassembly Complete

¾ Explored view

¾ Below table lists ONE TOUCH 4010D L2 spare parts. You could also refer to: <https://css.tclmobile.cn/>.

Item	EN DESCRIPTION	Reference	Qty	Remark
8	Furnished front casing	BCA26R0B10C	1	Pure White,front casing
		BCA26R0E10C	1	Flash Red,front casing
		BCA26R0A10C	1	Bluish Black,front casing
9	power key	BFD26R0B11C	1	pure white painting,P+R
10	Furnished frame	BCC26NCB10C	1	White,frame dual sim with "2G,3G/2G" LOGO+main antenna(EU)+cameralens+camera lens adhesive+camera foam+spk mesh+speaker foam+BT antenna+Humidity Sticker

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L2 Repair Document

TCT Mobile Limited

Battery connector	40s	Hot wind gun Tweezers	Class3	The connector is easy to be damaged
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9	power key	BFD26R0B11C0	1	pure white painting, P+R
10	Furnished frame	BCC26NCB10C0	1	White, frame dual sim with "2G, 3G/2G" LOGO+main antenna (EU)+camera lens+camera lens adhesive+camera foam+spk mesh+speaker foam+BT antenna+Humidity Sticker

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	the phone and the TF card	
Camera	Camera doesn't work	Check camera module Check also camera socket broken or not
Audio	Bad or no emission (TX audio from mobile); Bad or no reception (RX audio on mobile); Hands-free problem; Key beep and melody problem	Check microphone, replace it if necessary; Check the contact on the PCBA (dirty or oxidized) Check loud speaker, replace it if necessary; Check the contact on the PCBA (dirty or oxidized)

In case the Level 2 repair can't solve the problem, or the PCBA is damaged, exchange the PCBA.

7 PCBA exchange

If Level 2 repair does not solve the failure, it is mandatory to change the PCBA and follow the process as below.

- 1) Collect the PCBA (without accessories, LCD and camera), with microphone and vibrator.
- 2) Get a new PCBA from the swap stock. Reuse those accessories to assemble the mobile.
- 3) Fill in the record sticker with IMEI number, fault code, short code, Hardware Technical Level and software version.
- 4) Send the NG PCBA with record sticker back to L3 repair center with the recommended packaging method,

Note: packaging method please refer item "12. Packaging requirement".

8 Other component exchange

The other components exchange such as

- 1) LCD module
- 2) Touch lens
- 3) USB connector
- 4) FPC connector
- 5) Receiver

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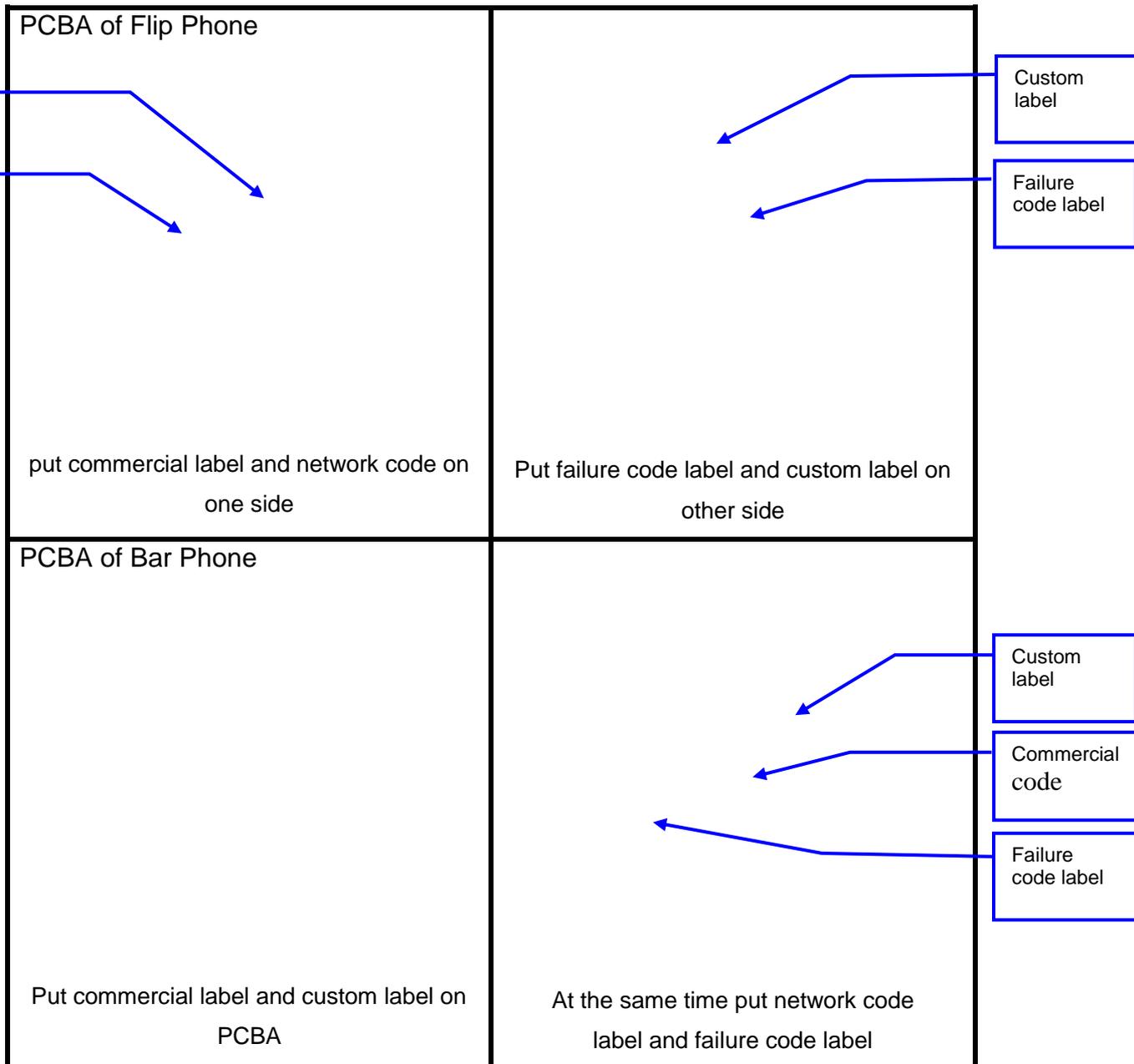
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APPENDIX1 Packaging Requirements

1 ã Appearance Requirements of PCBA

½ ã The failure code label, commercial label, custom label and network code should be stuck onto PCBA

¾ ã The repair PCBA and custom label should be matched
(see appendix one for the detailed information)



2 ã PCBA Packing Requirements

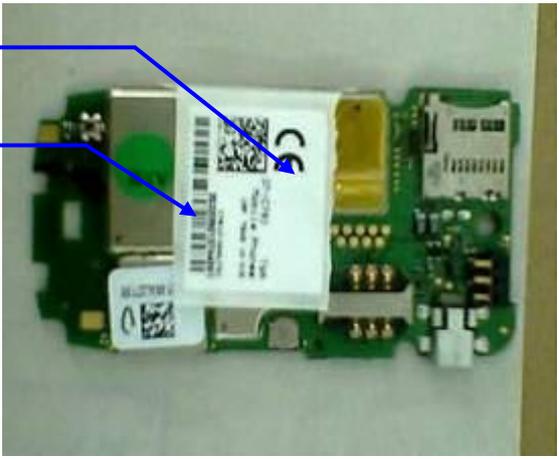
½ ã After packing with anti-vibration bag, the commercial label on PCBA should be

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APPENDIX 1 Packaging Requirements

1、 Appearance Requirements of PCBA

- i、 The failure code label, commercial label, custom label and network code should be stuck onto PCBA
- ii、 The repair PCBA and custom label should be matched
(see appendix one for the detailed information)

<p>PCBA of Flip Phone</p>  <p style="text-align: center;">put commercial label and network code on one side</p>	 <p style="text-align: center;">Put failure code label and custom label on other side</p>
<p>PCBA of Bar Phone</p>  <p style="text-align: center;">Put commercial label and custom label on PCBA</p>	<p style="text-align: center;">At the same time put network code label and failure code label</p>

Network code

Commercial label

Custom label

Failure code label

Custom label

Commercial code

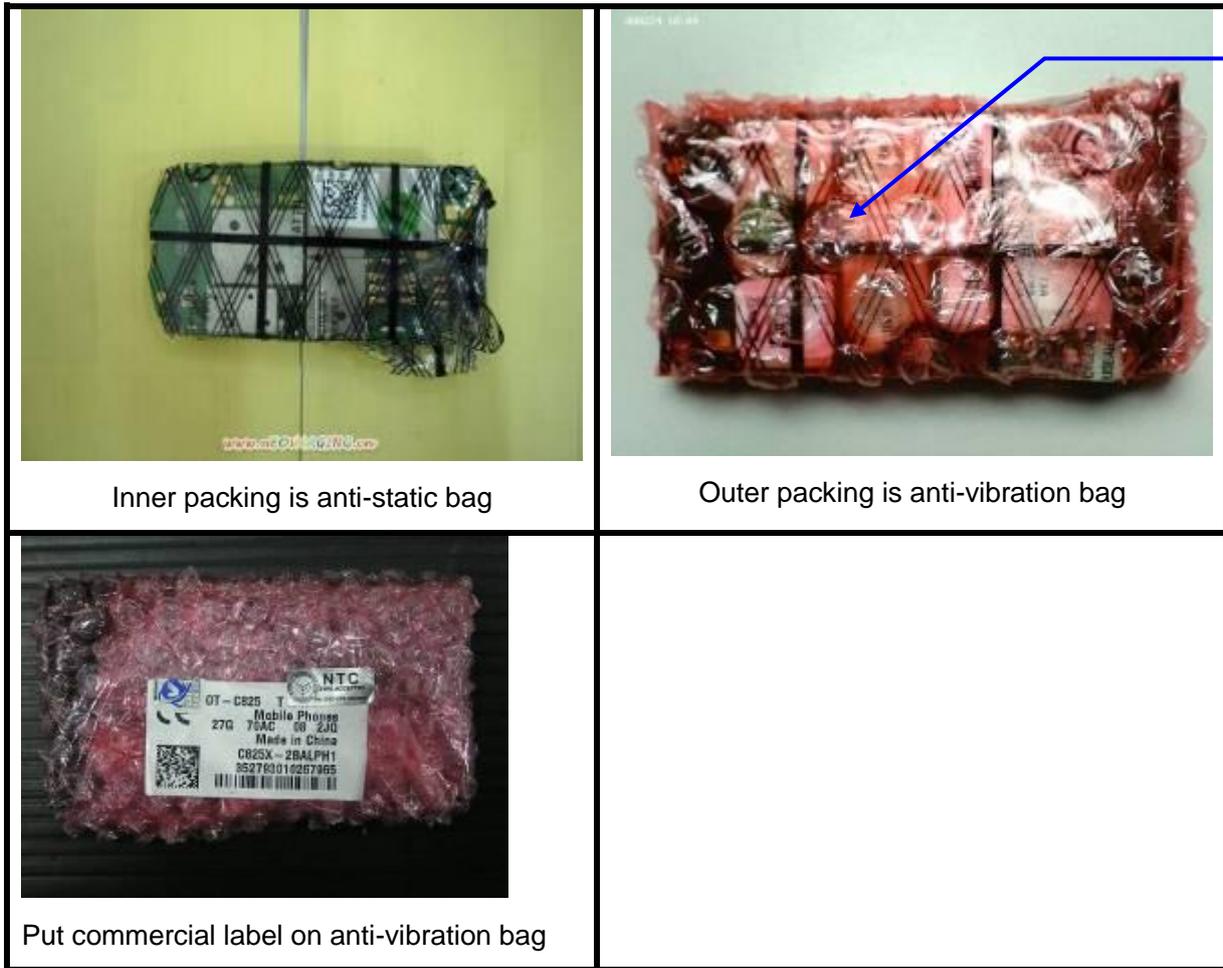
Failure code label

2、 PCBA Packing Requirements

- i、 After packing with anti-vibration bag, the commercial label on PCBA should be

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easy recognized;



3、 Packing Requirements

- i. Please pay attention to the following points when different models put into one box:
- ii. Stick up the same models with tapes
- iii. Mark the model, quantity and specification of custom label on tape
- iv. The packing box for PCBA should have marking sticker and well sealed by the tape
- v. with TCL logo
- vi. Finally put all the packing boxes into packing cases strong enough and post to HK.

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