

Cristalk

One Touch 282(A)

MTC 268

RPFRG1801



MTC 268



RPFRG1801

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L2 Repair Document

TCT_{Mobile}

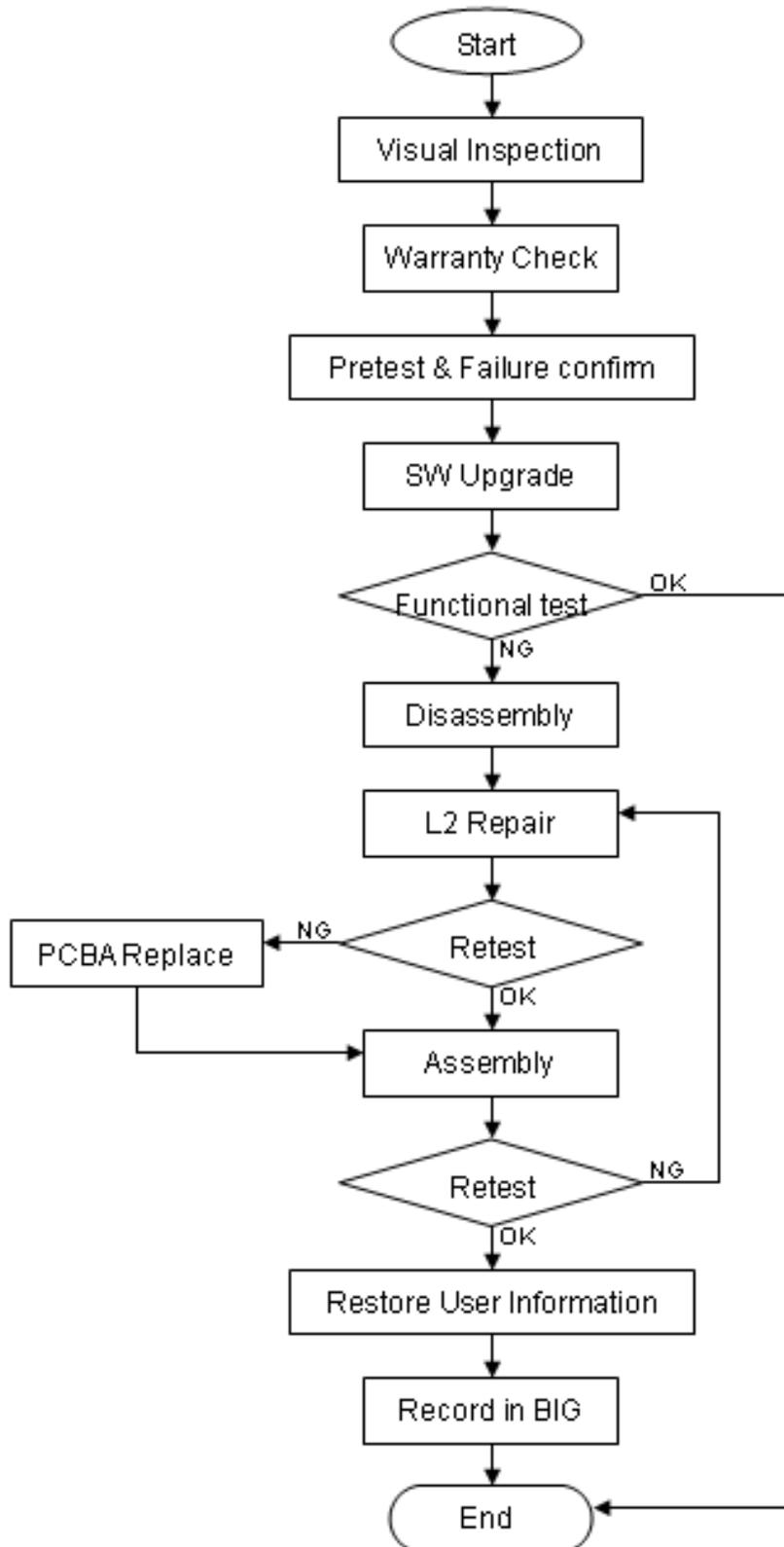
Note: this manual is non-contractual and TCT can modify it without prior notice the characteristics of described equipments.

Rev.	Date	Modification description	Prepared By	Checked By	Approved By
1.3	2012-8-14	Add the attention of assembly of furnished frame	Echo Huang	Shichuan	Lican
1.2	2012-6-8	Add the information of RPFPG1801	Echo Huang	Shichuan	Lican
1.1	2012-5-3	Add the information of MTC 268	Echo Huang	Huangzhen	Lican
1.0	2011-11-18	Update tool information	Echo Huang	Huangzhen	Ivy
0.1	2011-10-2	Preliminary draft	Echo Huang	Huangzhen	Ivy

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1. Level 2 repair process



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:

- 1) Corrosion
 - Corrosion on the USB connector, SIM connector, and other metal surface
- 2) Hole (diameter > 1mm)
 - Holes on any surface, including the front casing, furnished frame, battery cover, touch Lens, keypad...
- 3) Bump

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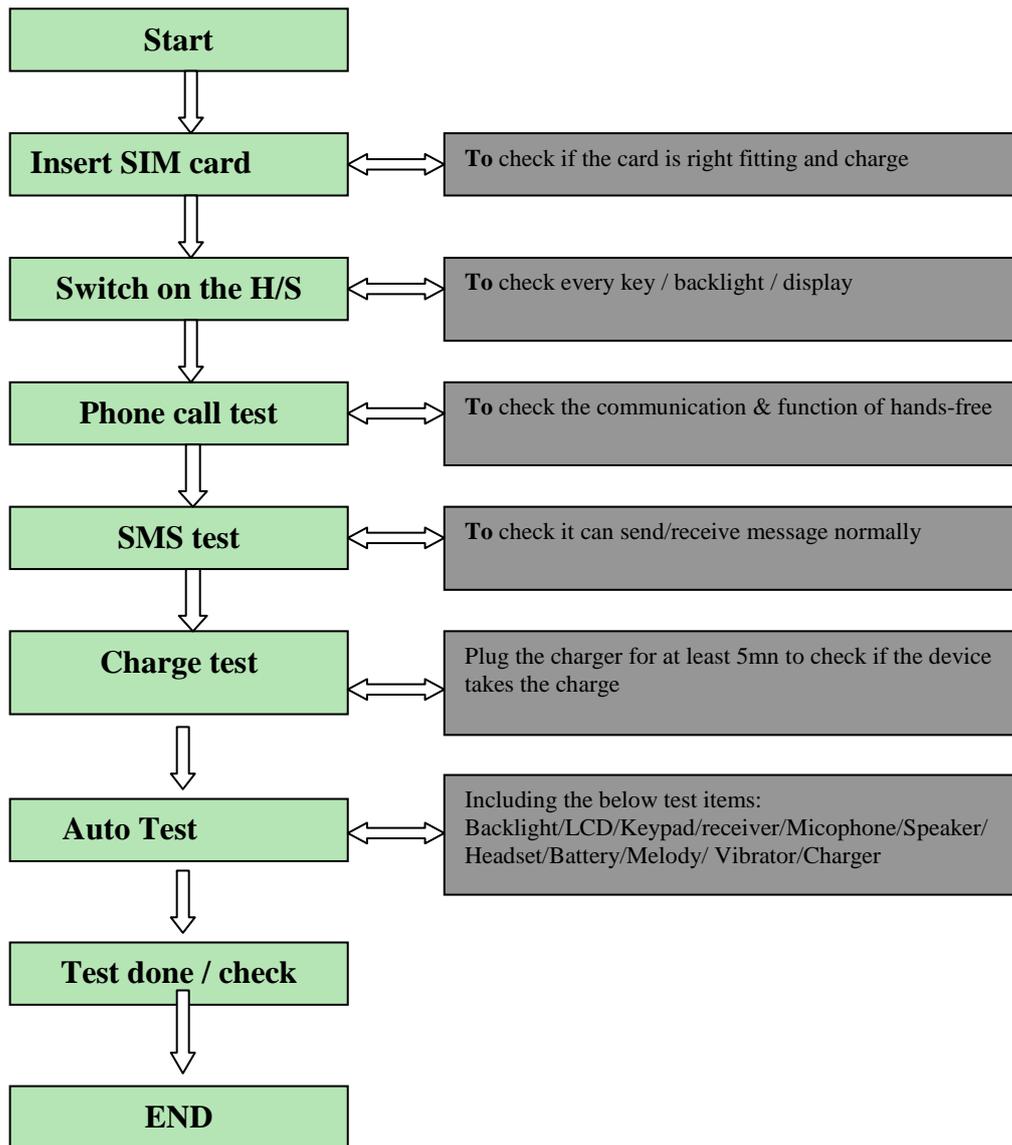
- Bumps (diameter > 1mm) on any surface, including front casing, decorate frame, battery cover, touch Lens, keypad, etc.
- 4) Scratch
 - Scratches (length > 3mm) on any surface, including the front casing, decorate frame, battery cover, touch Lens, keypad, etc.
 - 5) Distortion
 - Bend, twisted or crushed 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, lost of components
 - Use in abnormal environment like high temperature cause 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 can not power on, visually check the condition of the battery connector. Replace it if necessary.
- 5) If the cell phone asks to input NCK code, which means it is SIM locked, and can only be worked with dedicated SIM card. Use the correct SIM card.
- 6) Enter the phone code if necessary.
- 7) If power on, test step by step with the auto test code:

Press *#2886# in dial screen and select "OK" or "START" to begin the testing

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3. Online software update

It is authorized to download software in level 1 repair center for the handset which needs to update. The "SoftwareUpgrade 4.7" is a software upgrade application. Handset Software can be downloaded from TS website via it. TS Website: <https://css.tclmobile.cn/>. SoftwareUpgrade 4.7 is for one touch 282 while 4.86 is for MTC 268. RPFPG1801 can use SoftwareUpgrade 4.98.



3.1 Below equipments is requested when download

- A handset with full charged battery.
- PC with windows system.
- A downloading cable.

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4.3 Software update procedure

- 1) Download HDT application for one touch 282(A) product from web as below URL
https://css.tclmobile.cn/Web_Skill/showfile.aspx?id=19121

HDT_FOR_U10Q_VF355_VF354_V2[1].0.0

📎 [HDT_FOR_U10Q_VF355_VF354_V2\[1\].0.0.rar](#)

HDT_FOR_U10Q_VF355_VF354_V2[1].0.0

- 2) Install it on the local computer.
- 3) Download handset software (main code/perso/Commercial DB) from server and install it under the default path.
- 4) Plug the socket onto the bench and make sure well connected.
- 5) Plug one touch 282(A) onto the socket and make sure well connected.



- 6) Connect power supply to the 12V connector.
- 7) Connect jig to the computer via USB cable.
- 8) Turn on the +12V switch and LED will turn on red.



- 9) Find the D:\HDT\IMEI\Delivery, and put IMEI file in it;
- 10) Start HDT application by double click "HDT.exe" in the folder of C:/HDT/Bin;
- 11) Detail steps please refer to <user manual> which can be downloaded from below URL:
https://css.tclmobile.cn/Web_Skill/showfile.aspx?id=7153



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- 1) The bench supports 3pcs channel downloading, but when you press the red button, at most 2 in one time.
- 2) Change for handset socket when you need handset downloading;
- 3) The socket can be replaced when you want to download other MTK product without change the bench.

5. Disassembly and assembly one touch 282(A)

5.1 Disassembly tool

You may use the following tools during the disassembly and reassembly procedure:

Plastic Wedge

Screw driver

Tweezers

Soldering iron

Hot air gun

Camera Jig

Hook

Knife

Please refer to APPENDIX 1 and find out the picture of the tool.

5.2 Disassembly process

The disassembly procedure of One Touch 282 stated below. This model should only be disassembled from bottom to top. MTC 268 & RPFPG1801 are the same.

Step 1: Remove the 6 screws from the decorate frame by screw driver.



Step 2: Separate the decorate frame from the main PCBA by plastic wedge.

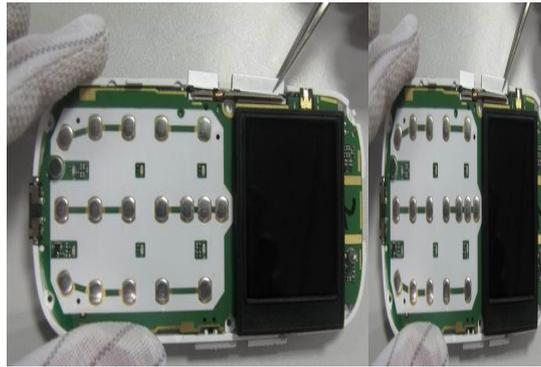


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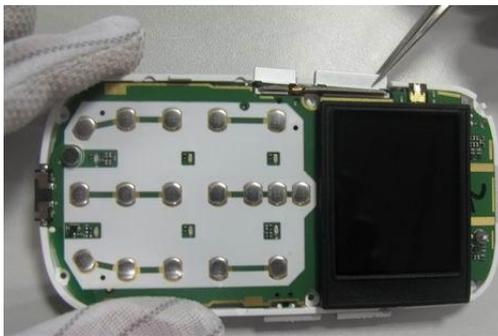
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Step3: Remove keypad and receiver.

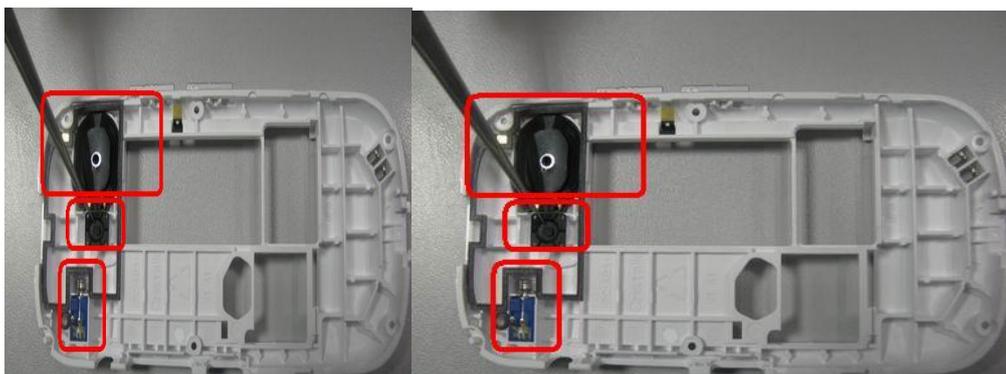


Step4: Separate the side key and then remove the PCBA from Front frame.



Note: please use brush to smear the lube at the undersurface of slide keys before assembling a new furnished frame. And move the slide keys back and forth (at least once) after smearing the lube. Otherwise, the slide keys can work but maybe hard to move.

Step5: Separate the LCD rubber/vibrator/speaker/SOS rubber.



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	Key beep and melody problem	Check the contact on the PCBA (dirty or oxidized)
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In case the LEVEL 2 repair can't solve the problem, or if the board is damaged, exchange the board.

7. PCBA exchange

If Level 2 repair does not solve the failure, the PCBA will be scraped overseas.

8. Other component exchange

The other components exchange such as

- 1) LCD module
- 2) Keypad
- 3) Vibrator
- 4) Receiver
- 5) Speaker
- 6) Microphone
- 7) Camera
- 8) FPC connection
- 9) Audio connector
- 10) Camera connector
- 11) Other related mechanical components

Please follow the detail steps 5.3 (Disassembly and assembly process).

But need to be very careful to handle the components with related special tool or jig (especially replacing new components)

It is better to handle it with plastic tools (plastic tweezers and wedge etc.).

Besides operator must wear anti-static gloves, fingertips or wear static loop during the whole process of components exchange.

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11.1 Other mandatory equipments

- 1) Final test kit (charger, battery, back cover)
- 2) Bench and socket

12. Packaging Requirement

- 1) PCBA shipment requirement:
 - Anti Electro-Static.
 - Avoid PCBA are laid to overlap each other.
 - Against press outside package.
- 2) Solution 1: Each PCBA is packaged by shield bag, put each PCBA into each cave of the carton (refer to picture below).



- 3) Solution 2: Stack by special trays (15 trays maximum), put empty trays to fill space inside the carton and all trays should be bound tightly in order to avoid PCBA move out (see picture below).



If you have any question or problem, please feel free to contact us

(tct_gcc_techSupport@tcl.com).

Thanks for your cooperation.

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TCTMobile

TCT Mobile Phones

Global Customer Service TS Dept.

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