

X100 SERVICE MANUAL



Sonim Technologies

	X100 SERVICE MANUAL		Classification: External
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Effective date: 10 - 06 - 2025	Prepared By: Qingfei Shi Shuwei Wang Lei Yan	Reviewed By: Changlun Luo	Approved By: Joanna Wang

Updated Ver.	Effective date	Prepared by	Brief of Amendments
1.0	10 - 06 - 2025	Qingfei Shi Shuwei Wang Lei Yan	Initial version

CAUTIONS

- I. Servicing must be performed only by qualified personnel
- II. Always work at an anti-static workstation and wear an anti-static wrist strap.
- III. Use only approved tools and components listed in the parts list.
- IV. Ensure all modules, screws, cables, and insulators are correctly refitted after servicing.
- V. Electrostatic discharge can easily damage the sensitive components of electronic products. Therefore, the Service Center must adhere to the precautions which mentioned above.

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I INTRODUCTION

1. PURPOSE

This manual provides the standardized operating instructions for L2 repairs.

2. REGULATORY INFORMATION

A. SECURITY

This wireless device, (the "Device") contains software owned by Sonim Technologies, Inc. ("Sonim") and its third party suppliers and licensors (collectively, the "Software"). As user of this Device, Sonim grants you a non-exclusive, non-transferable, non-assignable license to use the software & hardware solely in conjunction with the Device on which it is installed and/or delivered with. Nothing herein shall be construed as a sale of the Software & hardware to any third party.

You shall not reproduce, modify, distribute, reverse engineer, decompile, otherwise alter or use any other means to discover the source code of the Software, hardware or any component of the Software/hardware. For avoidance of doubt, you are at all times entitled to transfer all rights and obligations to the Software to a third party, solely together with the Device with which you received the Software, provided always that such third party agrees in writing to be bound by these rules. The validity, construction and performance of the license shall be governed by the laws of Delaware, United States & the manufacturer will not be responsible for any charges that result from unauthorized use.

B. PHONE CARE

Each Sonim phone has a designated IP class for dust and water protection, according to the IEC Ingress Protection (IP) Standard. This means that the phone is dust protected and can be submerged in 1.5 Meter deep water for up to 35 minutes. Immersion in deeper water can damage it and must be avoided.

Sonim phones are solid and built for heavy duty use. Its design protects against disassembly or mechanical damage when subjected to forces equal to free fall from the height of 1.5 meters. Subjecting the phone to stronger impact and forces can damage it and must be avoided.

C. MAINTENANCE LIMITATIONS

Maintenance limitations on this model must be performed only by the manufacturer or its authorized agent. The user may not make any changes and/or repairs except as specifically noted in this manual. Therefore, note that authorized alternations or repair may affect the regulatory status of the system and may void any remaining warranty.

D. ELECTROSTATIC SENSITIVE DEVICES

ATTENTION

Boards which contain Electrostatic Sensitive Devices (ESD) are indicated by the sign.

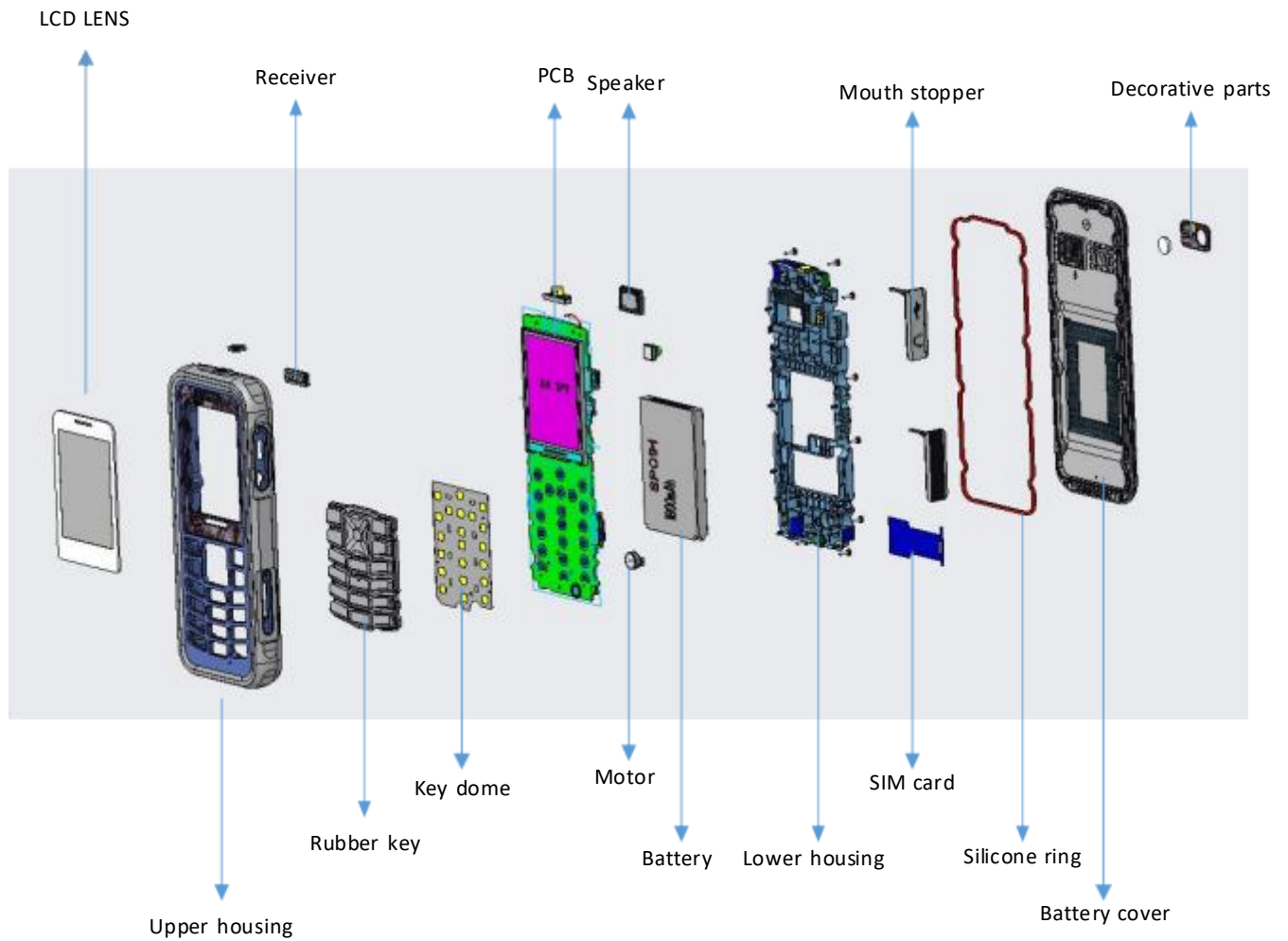
The following precautions must be taken while handling the ESD boards

1. Service personnel should ground themselves by using a wrist strap while working on the boards
2. When repairs are made to a system board, they should spread the floor with anti-static mat which is also grounded.
3. Use a suitable, grounded soldering iron.
4. Keep sensitive parts in protective packages until these are used.

II REQUIREMENTS

REQUIREMENTS TO PERFORM THE ASSEMBLY & DISASSEMBLY OF HANDSETS	
Sales pack or Spare parts of the handset.	
Tools	Tweezers, Screw driver, Anti-static rod, SIM Ejector, Pick(Triangle Tool)
ESD Gloves, shoes, Aprons, Anti-static wrist band	
Clean sol or Isopropyl Alcohol [IPA]	
Hot air blower	
Soldering Iron	
Jig & Fixture	Heating plate, Battery cover disassembly Jig, Air tightness test fixture, Freezer or Icebox

1.0 EXPLODED VIEW OF X100



2.0 HANDSET DISASSEMBLY

(1) . Remove the twelve Hexagon screws



(2) . Remove the battery cover



(3) . Remove the flashlight interface, twelve cross screws, card tray, and battery



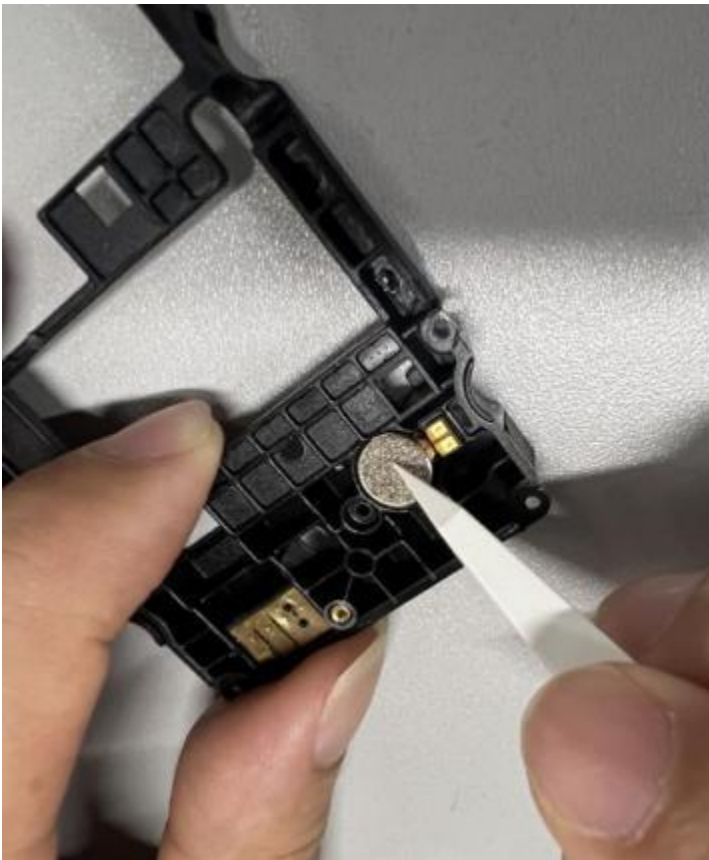
(4) . Remove the back cover and PCBA



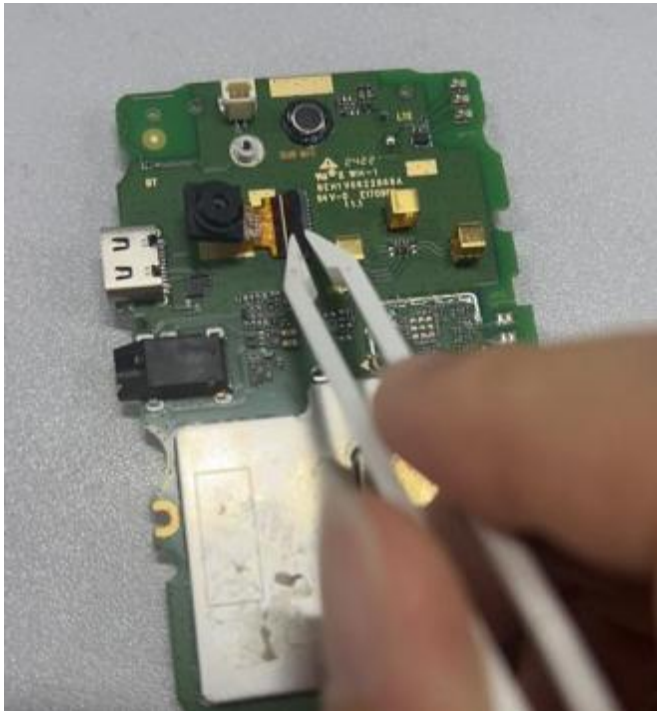
(5) . Remove the flashlight with plastic tweezers



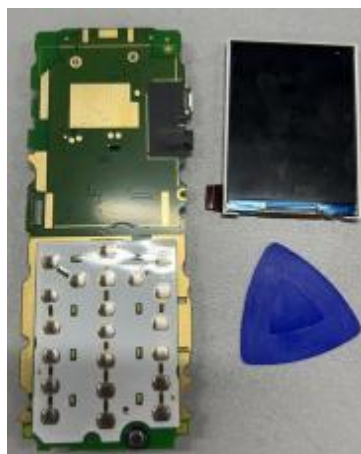
(6) . Replacement of the new motor



(7) . Pick the camera connector with plastic tweezer and remove the camera



(8) . Separate the LCD and main board using the pick

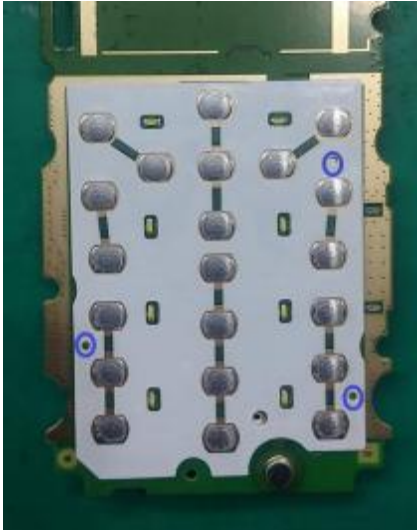


(9) . Use plastic tweezers to remove the keypad dome

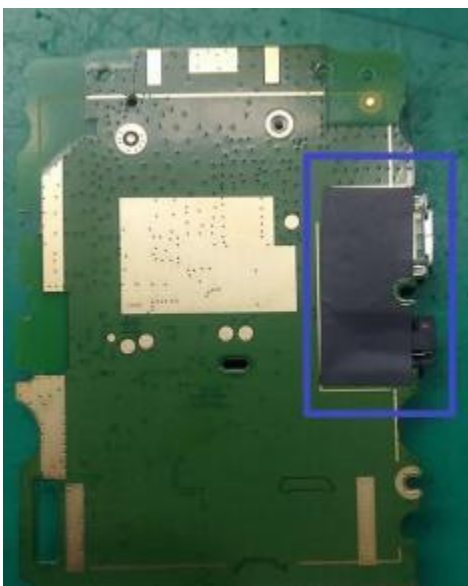


3.0 HANDSET ASSEMBLY

(1) . Film is pasted on the PCBA



(2) . Paste Mylar and conductive cloth on the PCBA



(3) . Install the camera onto the PCBA



(4) . Apply waterproof foam onto the PCBA and remove the protective film



(5) . Remove the protective film, install the screen onto the PCBA, and plug in the LCD PFC to PCBA connector



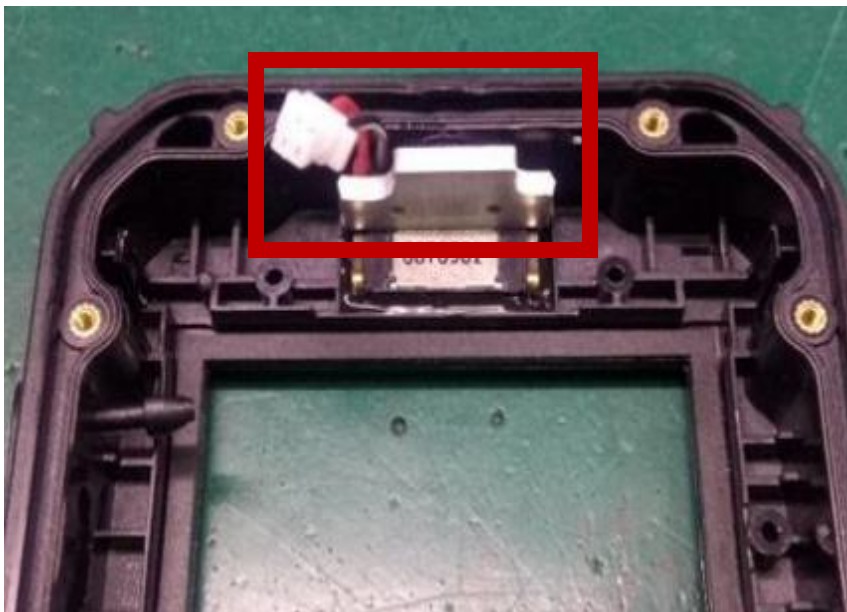
(6) . Install the motor to the frame



(7) . Install the PCBA onto the bracket and place the camera



(8) . Install the flashlight onto the front housing



(9) . Install the lower housing onto the front housing



(10) .Install screws



(11) . Install the SIM card tray and install the battery



(12) . Assemble the red sealing ring onto battery cover, ensuring it stays flat



(13) . Install the battery cover



(14) .Install the screws



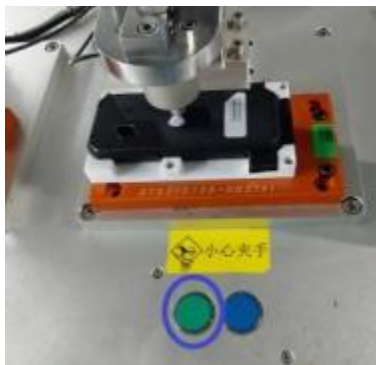
(15) . Install the camera guard and flashlight guard



(16) . Remove the protective film and install the LCD protective lens



(17) . Test the airtightness

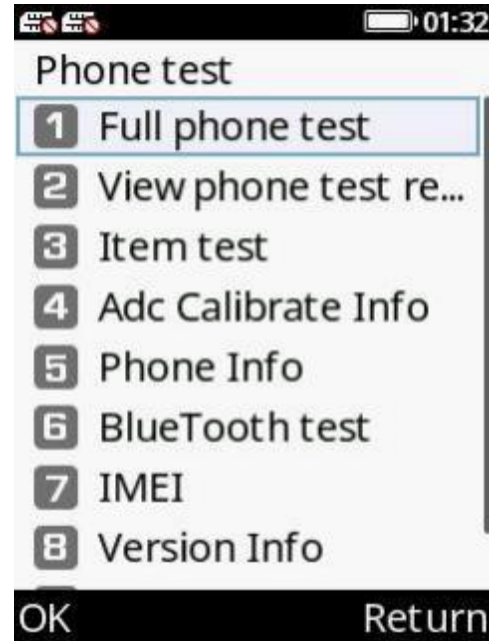


(18) . Install the lens

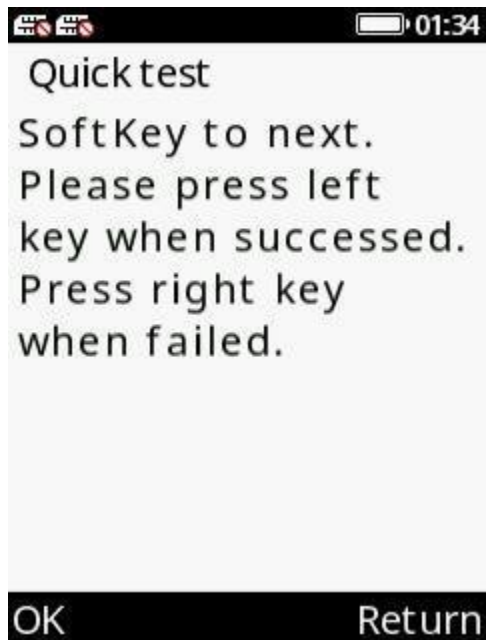


4.0 X100 Factory Guide

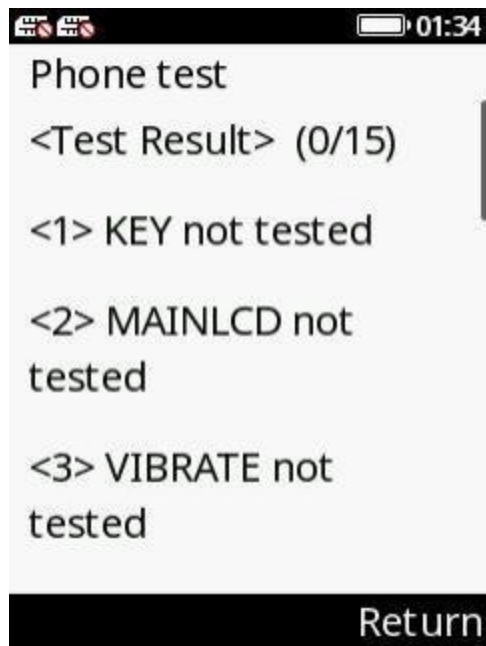
1 、 Dial *##*248##* or *#15963# in the idle screen then enter the factory test interface.



2 、 for full phone test that means Testing each one which exist in “Item test” and automatically move on to the next one for testing.



3、for second menu “view phone test result”, You can view the results of previous tests.



4、for third menu “Item test”, You can choose one of item for testing.



5 、 Item test details

5.1 、 Key tset

Operate steps:

1. Check whether the button items on the screen correspond to the physical press on the phone
2. Press the keys in turn to observe whether the corresponding key options are eliminated

Expected results:

1. No extra keys, no missing keys
2. All on-screen buttons can be eliminated after pressing

Pass or Fail:

If the expected result is met, pressing the SL soft key is pass; If the actual result does not meet the expected result, press the SR soft key to fail



5.2 、 Main lcd test

Operate steps:

Enter the test menu , Press 1, 2, 3, 4, 5, 6, 7, 8, 9, 0

Expected results:

Each button enters the operation, and the LCD is observed, and the display is normal

Pass or Fail:

If the expected result is met, pressing the SL soft key is pass; If the actual result does not meet the expected result, press the SR soft key to fail



5.3 、 Vibrater test

Operate steps:

Enter the test menu

Expected results:

When entering the phone start vibrating

Pass or Fail:

If the expected result is met, pressing the SL soft key is pass; If the actual result does not meet the expected result, press the SR soft key to fail



5.4 、 Backlight test

Operate steps:

Enter the test menu

Expected results:

The backlight and key lights are flashing normally

Pass or Fail:

If the expected result is met, pressing the SL soft key is pass; If the actual result does not meet the expected result, press the SR soft key to fail



5.5 、 Loopback test

Operate steps:

Enter the test menu , and blow into the main microphone

Expected results:

A blowing sound can be heard in the speakers

Pass or Fail:

If the expected result is met, pressing the SL soft key is pass; If the actual result does not meet the expected result, press the SR soft key to fail



5.6 、 Loopback2 test

Operate steps:

Enter the test menu , and blow into the microphone

Expected results:

A blowing sound can be heard in the speakers

Pass or Fail:

If the expected result is met, pressing the SL soft key is pass; If the actual result does not meet the expected result, press the SR soft key to fail



5.7、Camera test

Operate steps

:

Enter the test menu

Expected results:

It can be turned on normally, the preview interface can be displayed normally, it can exit normally

Pass or Fail:

If the expected result is met, pressing the SL soft key is pass; If the actual result does not meet the expected result, press the SR soft key to fail



5.8 、 Electric torch test

Operate steps:

Enter the test menu

Expected results:

When entering, the flashlight light is on;

Pass or Fail:

If the expected result is met, pressing the SL soft key is pass; If the actual result does not meet the expected result, press the SR soft key to fail



5.9 、 Melody test

Operate steps:

Enter the test menu

Expected results:

When turned on, you can hear audio playing in the speakers,Then press the key according to the audio prompt,when pressing the right one that the pass character will appear on the left side, if you press it wrong twice, you will not continue to hear the audio and will not appear pass character, at this time you can only click the fail

Pass or Fail:

If the expected result is met, pressing the SL soft key is pass; If the actual result does not meet the expected result, press the SR soft key to fail



5.10 、 Receiver test

Operate steps:

Enter the test menu

Expected results:

When turned on, you can hear music playing in the earpiece,Then press the key according to the audio prompt,when pressing the right one that the pass character will appear on the left side, if you press it wrong twice, you will not continue to hear the audio and will not appear pass character, at this time you can only click the fail

Pass or Fail:

If the expected result is met, pressing the SL soft key is pass; If the actual result does not meet the expected result, press the SR soft key to fail



5.11 、 FM test

Operate steps:

Plug in the headphones,Enter the test menu

Expected results:

Enter to receive the station normally,The FM sound comes out of the headphones

Pass or Fail:

If the expected result is met, pressing the SL soft key is pass; If the actual result does not meet the expected result, press the SR soft key to fail



5.12 、 FM SANT test

Operate steps:

Enter the test menu

Expected results:

Enter to receive the station normally, The FM sound comes out of the speakers

Pass or Fail:

If the expected result is met, pressing the SL soft key is pass; If the actual result does not meet the expected result, press the SR soft key to fail



5.13 、 Charging test

Operate steps:

Plug in the charger and select OK to open, and the right software exits

Expected results:

You can see that the current charging temperature/current is normal

Pass or Fail:

If the expected result is met, pressing the SL soft key is pass; If the actual result does not meet the expected result, press the SR soft key to fail



5.14 、 SIM test

Operate steps:

select OK to open, and the right software exits

Expected results:

1. When there is no SIM card in the device, the pass character will not appear, and you can only click fail to exit
2. When there is a SIM card in the device, the corresponding SIM1 or SIM2 will be displayed, and then the pass character will appear

Pass or Fail:

If the expected result is met, pressing the SL soft key is pass; If the actual result does not meet the expected result, press the SR soft key to fail



5.15 、SDcard test

Operate steps:

1. Enter the menu without inserting the SD card
2. Insert the SD card to enter the menu

Expected results:

1. No SDcard is displayed
- 2, Have SDcard is displayed

Pass or Fail:

If the expected result is met, pressing the SL soft key is pass; If the actual result does not meet the expected result, press the SR soft key to fail



6、 TROUBLESHOOTING

Parts that customers cannot replace

This repair involves a soldering process and must not be performed by users. Please contact an authorized aftersales service center

1. Earphone socket connector
2. TYPE-C connector
3. Microphone
4. Sub Microphone
5. Battery Connector
6. LCD Connector
7. CAM Connector
8. Torch Connector
9. SIM Connector
10. Receiver
11. Speaker

Parts that engineer can replace- Earphone socket connector

1. Check the appearance of the headphone port. Whether the headset icon is displayed when the headset is inserted.

Tools needed: plastic tweezers, Hexagonal screwdriver, Phillips screwdriver, Card needle, Tweezers, heat gun, mainboard fixture, flux, new headphone jack.



(1) Remove the twelve screws, Remove the battery cover and the battery. Disconnect the power supply.



(2) Remove the flashlight interface, twelve cross screws, card.



Parts that engineer can replace- Earphone socket connector

(3) Separate the lower housing and remove the mainboard



(4) Pickup the LCD connector with plastic tweezers, separate the LCD and main board using the pick, remove CAM and the keypad dome, remove the black insulating tape at the back of the earphone socket connector.



Parts that engineer can replace- Earphone socket connector

(5).The mainboard is placed in the fixture;

Adjust the heat gun temperature to 290°C, set the wind speed to 1;

Apply a small amount of flux around the material to be replaced;

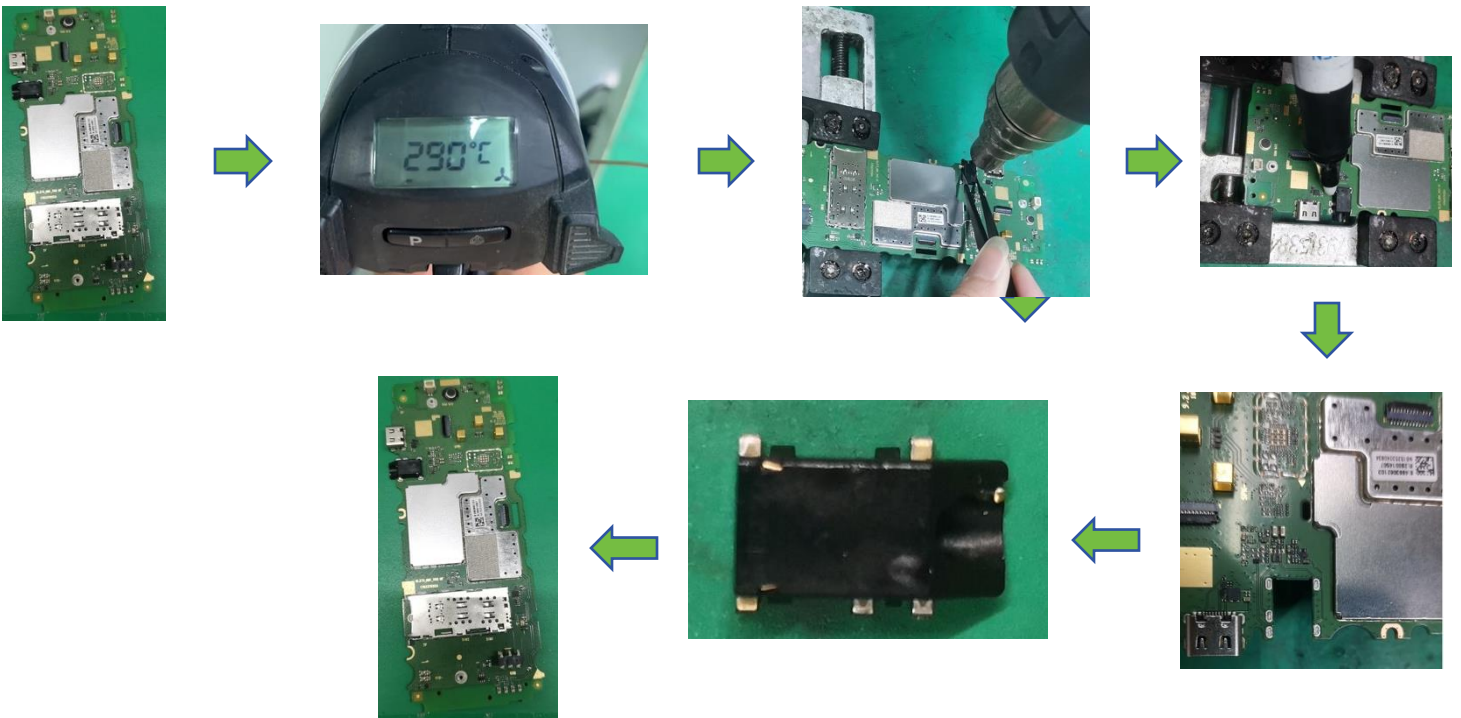
Keep the nozzle 2-3cm away from the material and heat the headphone interface for about 3min;

Use tweezers to remove the material to be replaced smoothly;

Apply a small amount of flux around the material pad to be replaced

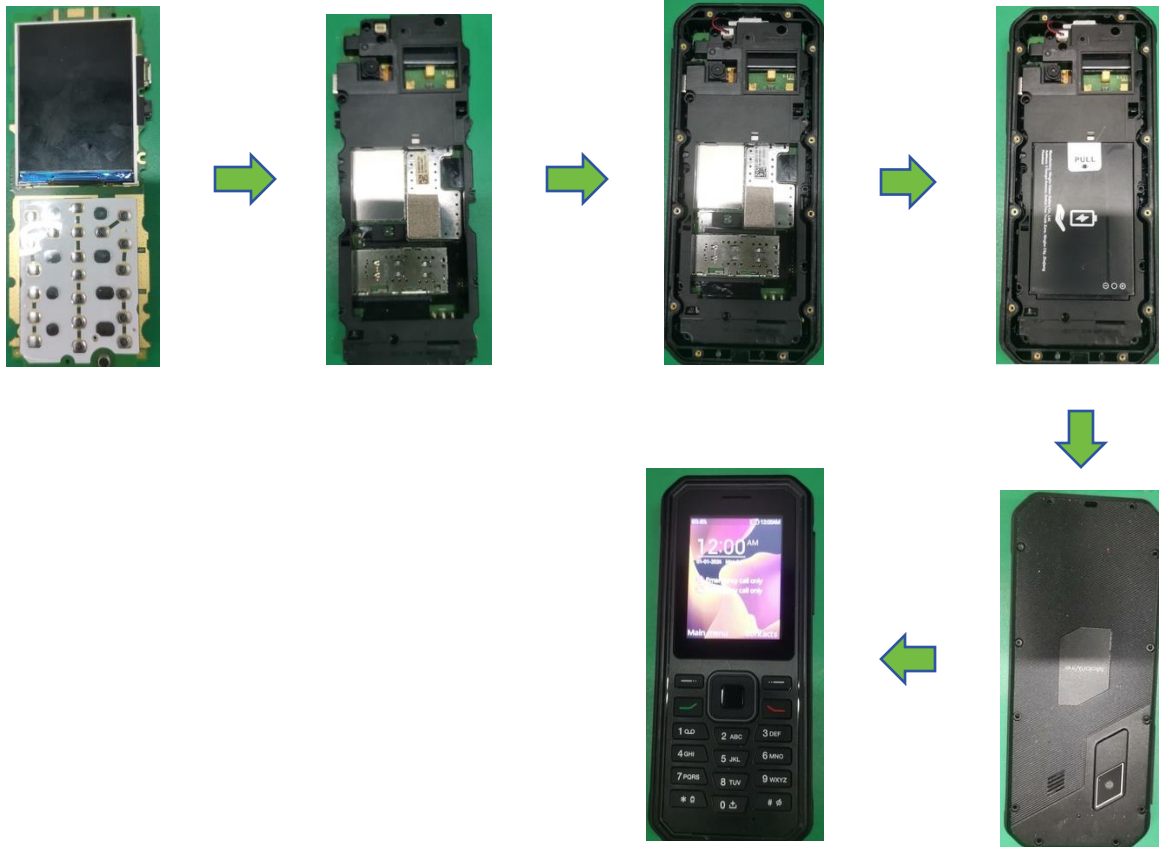
Heat the pad for about 2min, place the new material on the pad, and continue heating for 2min;

Soldering completed;



Parts that engineer can replace- Earphone socket connector

(6) Assemble machine parts in turn.



(7) Verify that the headset function is ok and that the headset has a headphone icon when inserted.



Parts that engineer can replace- TYPE-C connector

1. Check the appearance of the TYPE-C connector. Whether the data cable is charged properly when inserted.

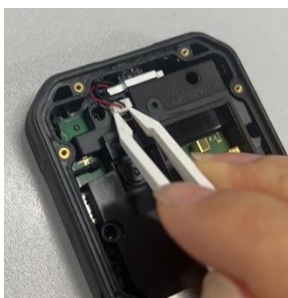
Tools needed: plastic tweezers, Hexagonal screwdriver, Phillips screwdriver, Card needle, Tweezers, heat gun, mainboard fixture, flux, new TYPE-C connector.



(1) Remove the twelve screws, Remove the battery cover and the battery. Disconnect the power supply.



(2) Remove the flashlight interface, twelve cross screws, card.



Parts that engineer can replace- TYPE-C connector

(3) Separate the lower housing,remove the mainboard



(4) Pick the the LCD connector with plastic tweezers, separate the LCD and main board using the dismantling sheet,remove CAM and the keypad dome, remove the black insulating tape at the back of the earphone socket connector.



Parts that engineer can replace- TYPE-C connector

(5).The mainboard is placed in the fixture;

Adjust the heat gun temperature to 300°C, set the wind speed to 1;

Apply a small amount of flux around the material to be replaced;

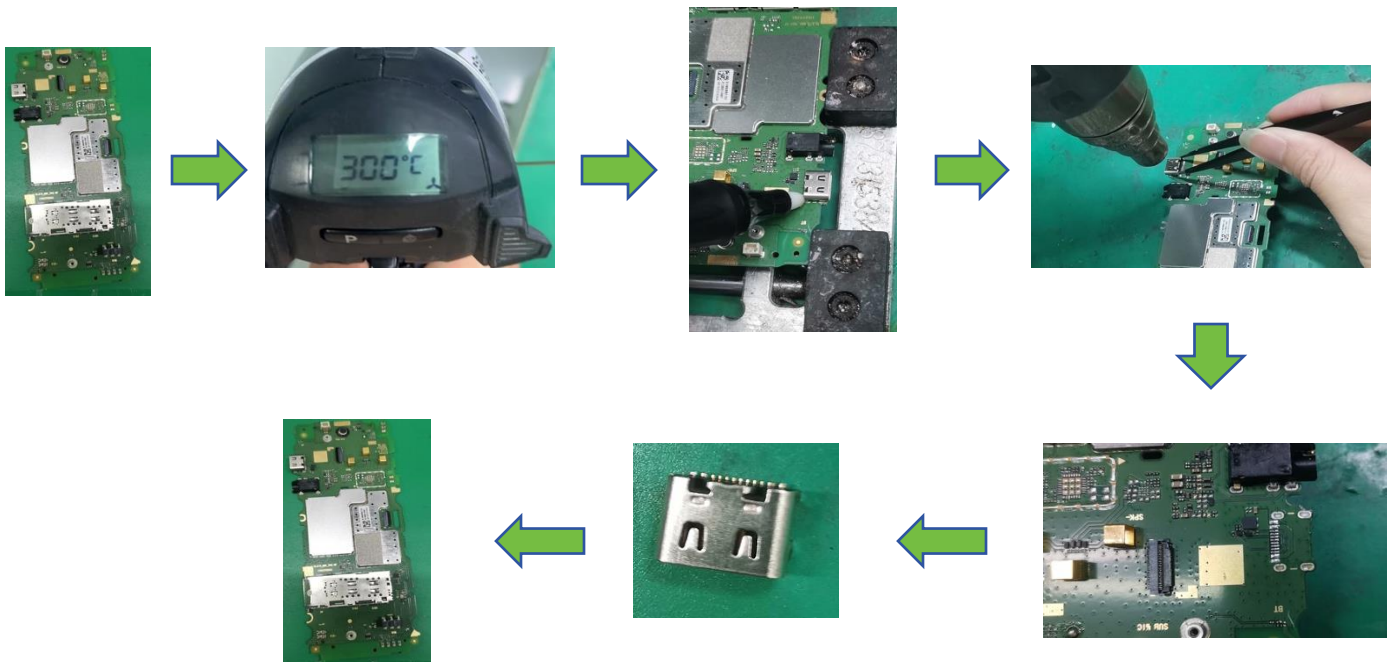
Keep the nozzle 2-3cm away from the material and heat the TYPE-C connector for about 3min;

Use tweezers to remove the material to be replaced smoothly;

Apply a small amount of flux around the material pad to be replaced

Heat the pad for about 2min, place the new material on the pad, and continue heating for 2min;

Soldering completed;



Parts that engineer can replace- TYPE-C connector

(6) Reassemble all parts in sequence as shown



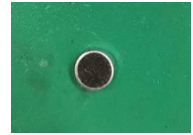
(7))Verify that the TYPE-C connector is properly charged.



Parts that engineer can replace- Microphone

1. Check whether the microphone is working properly.

Tools needed: plastic tweezers, Hexagonal screwdriver, Phillips screwdriver, Card needle, Tweezers, heat gun, mainboard fixture, flux, new microphone.



(1) Remove the twelve screws, Remove the battery cover and the battery. Disconnect the power supply.



(2) Remove the flashlight interface, twelve cross screws, card.



Parts that engineer can replace- Microphone

(3) Separate the lower housing, remove the mainboard



(4) Pick the the LCD connector with plastic tweezers, separate the LCD and main board using the dismantling sheet, remove CAM and the keypad dome, remove the black insulating tape at the back of the earphone socket connector.



Parts that engineer can replace- Microphone

(5).The mainboard is placed in the fixture;

Adjust the heat gun temperature to 290°C, set the wind speed to 1;

Apply a small amount of flux around the material to be replaced;

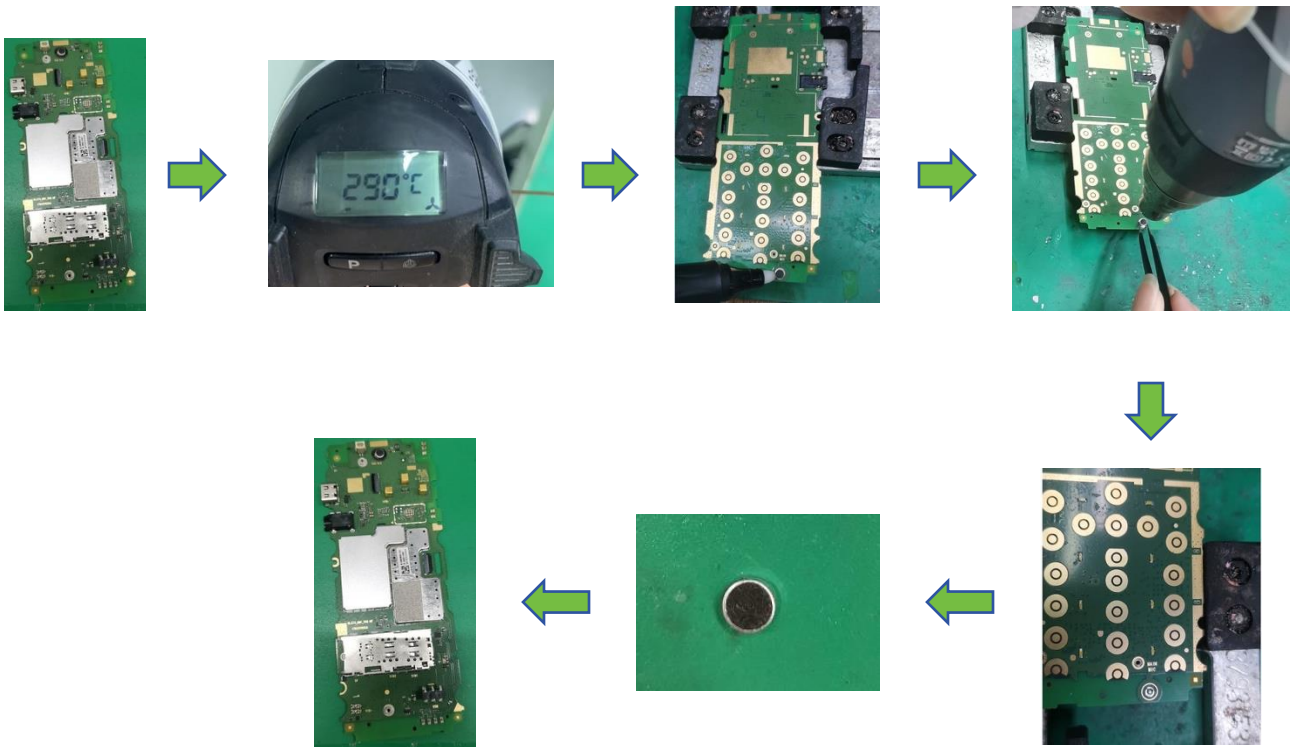
Keep the nozzle 2-3cm away from the material and heat the Microphone for about 3min;

Use tweezers to remove the material to be replaced smoothly;

Apply a small amount of flux around the material pad to be replaced

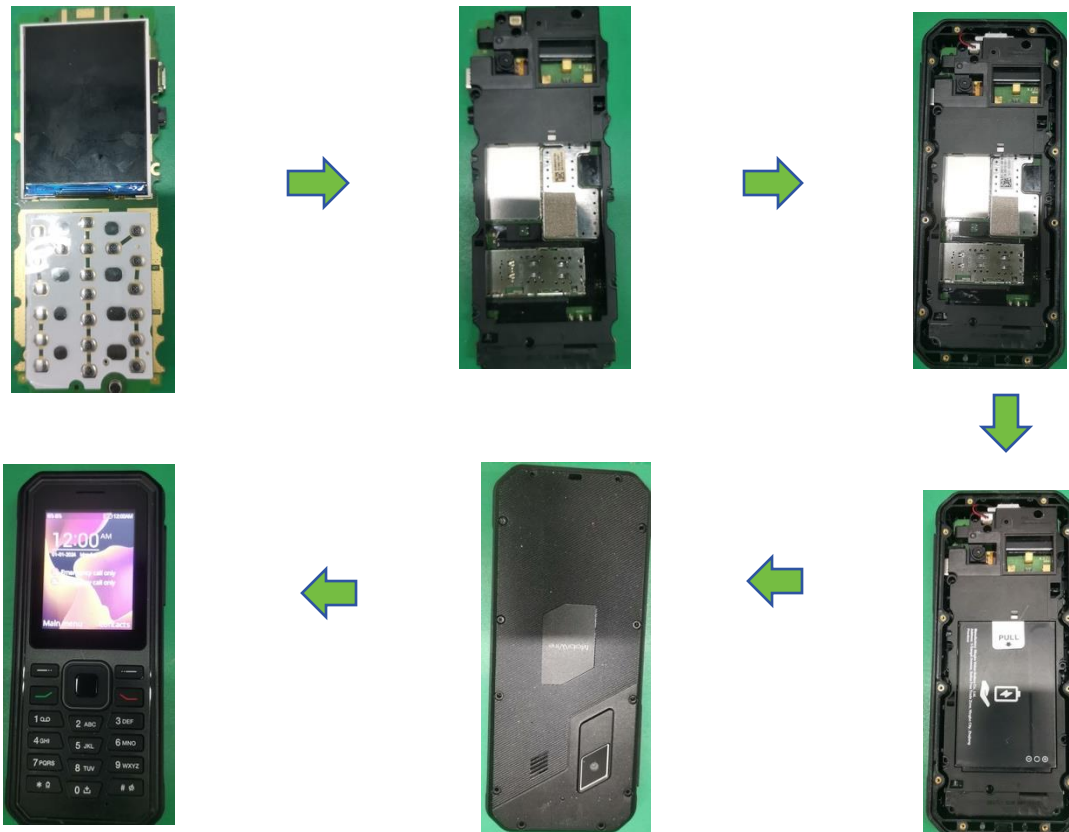
Heat the pad for about 2min, place the new material on the pad, and continue heating for 2min;

Soldering completed;



Parts that engineer can replace- Microphone

960 Reassemble all parts in sequence as shown



(7) Input `*#15963#` on the boot main interface, select "Item test" - "Loopback test", blow on the microphone, listen to whether there is an echo, if so, pass.



Parts that engineer can replace- Sub Microphone

1. Check whether the sub microphone is working properly.

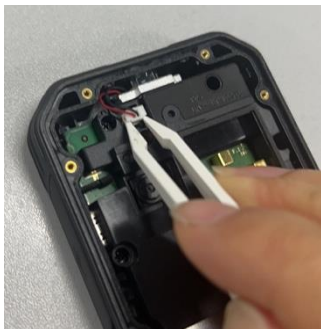
Tools needed: plastic tweezers, Hexagonal screwdriver, Phillips screwdriver, Card needle, Tweezers, heat gun, mainboard fixture, flux, new microphone.



(1) Remove the twelve screws, Remove the battery cover and the battery. Disconnect the power supply.



(2) Remove the flashlight interface, twelve cross screws, card.

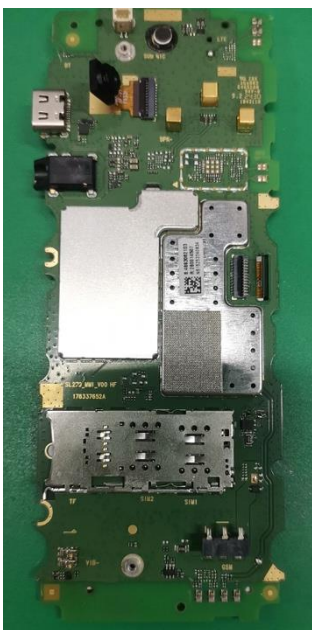


Parts that engineer can replace- Sub Microphone

(3) Separate the lower housing, remove the mainboard



(4) Pick the the LCD connector with plastic tweezers, separate the LCD and main board using the pick, remove CAM and the keypad dome, remove the black insulating tape at the back of the earphone socket connector.



Parts that engineer can replace- Sub Microphone

(5).The mainboard is placed in the fixture;

Adjust the heat gun temperature to 290°C, set the wind speed to 1;

Apply a small amount of flux around the material to be replaced;

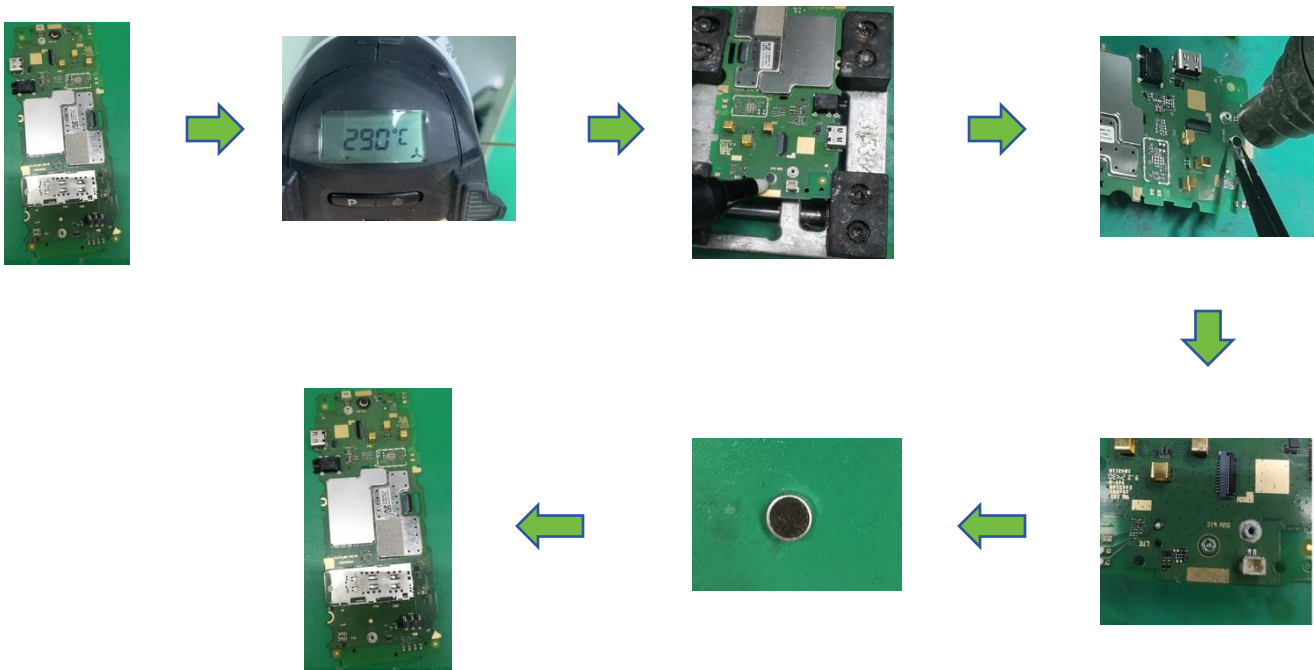
Keep the nozzle 2-3cm away from the material and heat the Sub Microphone for about 3min;

Use tweezers to remove the material to be replaced smoothly;

Apply a small amount of flux around the material pad to be replaced

Heat the pad for about 2min, place the new material on the pad, and continue heating for 2min;

Soldering completed;



Parts that engineer can replace- Sub Microphone

(6) Reassemble all parts in sequence as shown



(7) Input `*#15963#` on the boot main interface, select "Item test" - "Loopback2 test", blow on the microphone, listen to whether there is an echo, if so, pass.



Parts that engineer can replace- BATTERY Connector

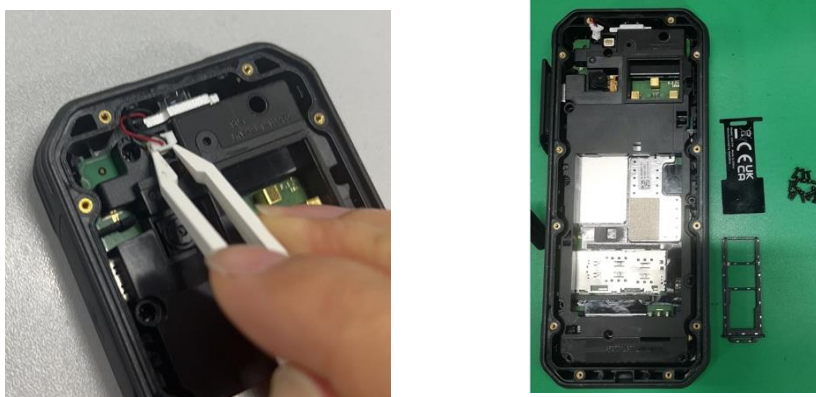
1. Check the appearance of the battery connector. Confirm whether the mobile phone is powered on normally. Tools needed: plastic tweezers, Hexagonal screwdriver, Phillips screwdriver, Card needle, Tweezers, heat gun, mainboard fixture, flux, new battery connector.



(1) Remove the twelve screws, Remove the battery cover and the battery. Disconnect the power supply.



(2) Remove the flashlight interface, twelve cross screws, card.



Parts that engineer can replace- Battery Connector

(3) Separate the lower housing,remove the mainboard



(4) Pick the the LCD connector with plastic tweezers,separate the LCD and main board using the dismantling sheet, remove CAM and the keypad dome, remove the black insulating tape at the back of the earphone socket connector.



Parts that engineer can replace- BATTERY Connector

(5).The mainboard is placed in the fixture;

Adjust the heat gun temperature to 290°C, set the wind speed to 1;

Apply a small amount of flux around the material to be replaced;

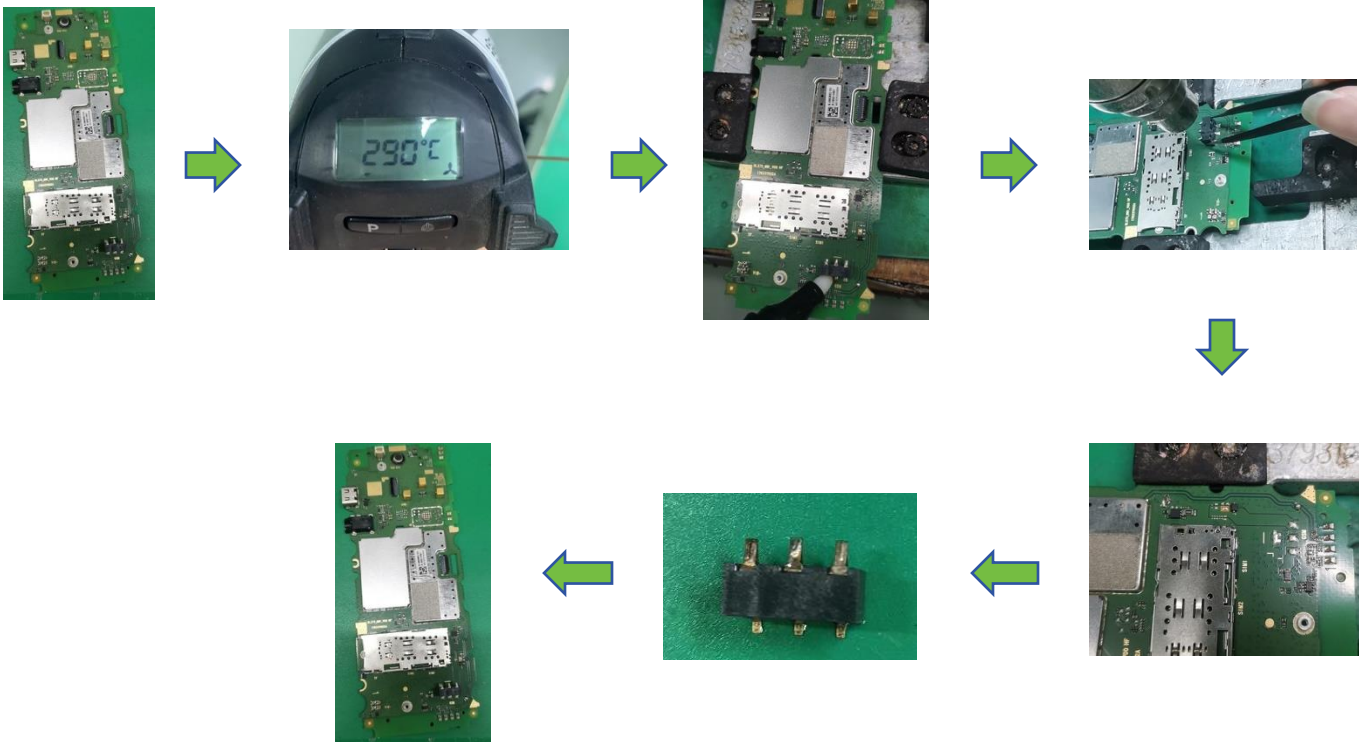
Keep the nozzle 2-3cm away from the material and heat the Battery Connector for about 3min;

Use tweezers to remove the material to be replaced smoothly;

Apply a small amount of flux around the material pad to be replaced

Heat the pad for about 2min, place the new material on the pad, and continue heating for 2min;

Welding completed;



Parts that engineer can replace- BATTERY Connector

(6) Reassemble all parts in sequence as shown



(7) Confirm that the mobile phone powers on.



Parts that engineer can replace- LCD Connector

1. Confirm whether the screen of the mobile phone display functions after it is powered on.

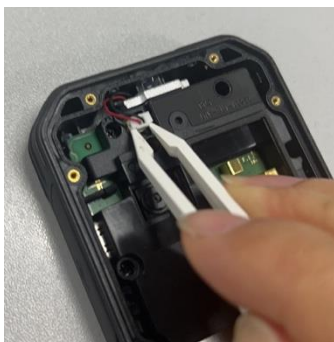
Tools needed: plastic tweezers, Hexagonal screwdriver, Phillips screwdriver, Card needle, Tweezers, heat gun, mainboard fixture, flux, new LCD connector.



(1) Remove the twelve screws, Remove the battery cover and the battery. Disconnect the power supply.



(2) Remove the flashlight interface, twelve cross screws, card.



Parts that engineer can replace- LCD Connector

(3) Separate the lower housing,remove the mainboard



(4) Pick the the LCD connector with plastic tweezers, separate the LCD and main board using the dismantling sheet,remove CAM and the keypad dome, remove the black insulating tape at the back of the earphone socket connector.



Parts that engineer can replace- LCD Connector

(5).The mainboard is placed in the fixture;

Adjust the heat gun temperature to 290°C, set the wind speed to 1;

Apply a small amount of flux around the material to be replaced;

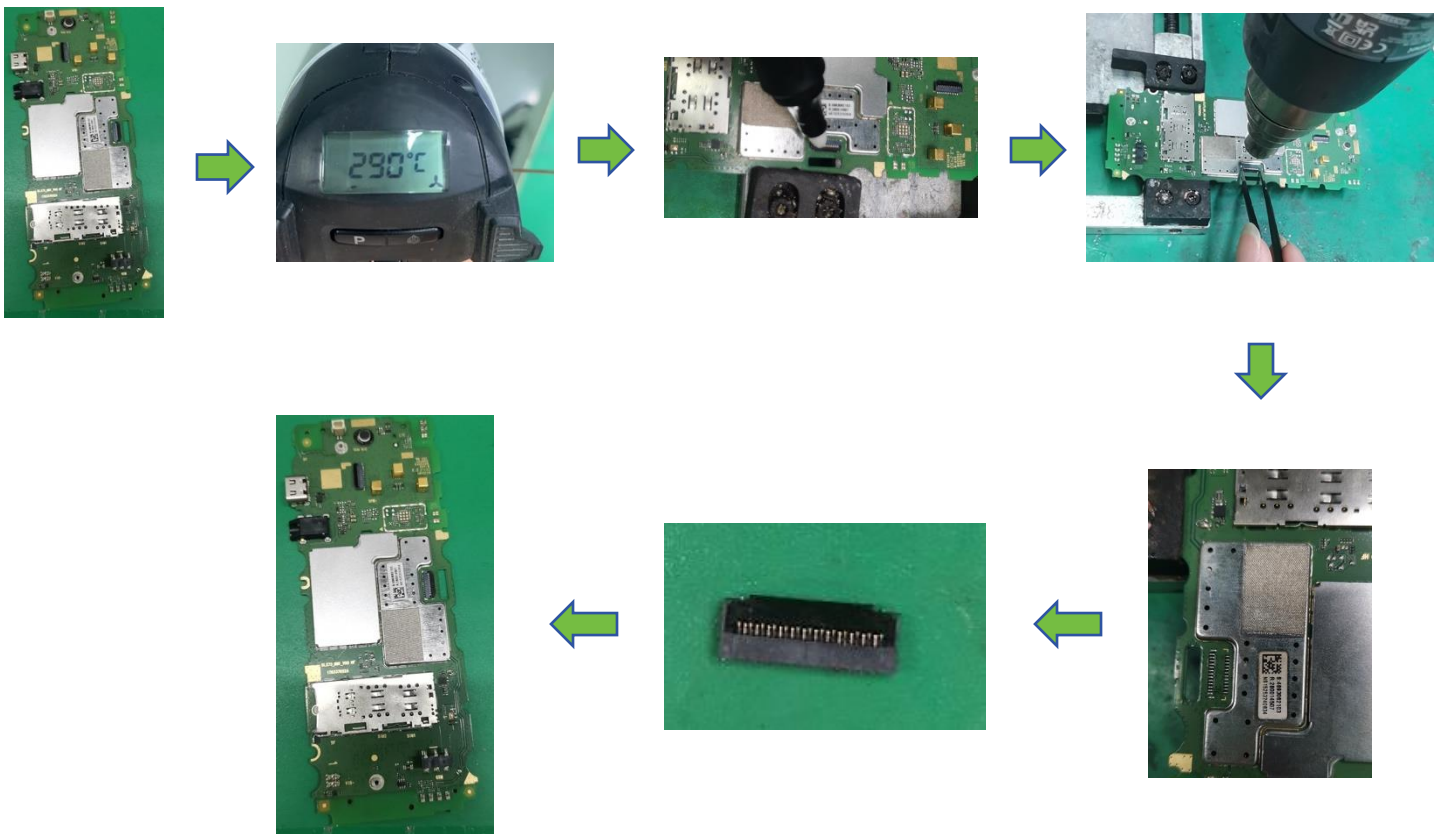
Keep the nozzle 2-3cm away from the material and heat the LCD Connector for about 3min;

Use tweezers to remove the material to be replaced smoothly;

Apply a small amount of flux around the material pad to be replaced

Heat the pad for about 2min, place the new material on the pad, and continue heating for 2min;

Soldering completed;



Parts that engineer can replace- LCD Connector

(6) Reassemble all parts in sequence as shown



(7) Confirm that the mobile phone is powers on.



Parts that engineer can replace- CAM Connector

1. Confirm whether the camera function

Tools needed: plastic tweezers, Hexagonal screwdriver, Phillips screwdriver, Card needle, Tweezers, heat gun, mainboard fixture, flux, new CAM connector.



(1) Remove the twelve screws, Remove the battery cover and the battery. Disconnect the power supply.



(2) Remove the flashlight interface, twelve cross screws, card.

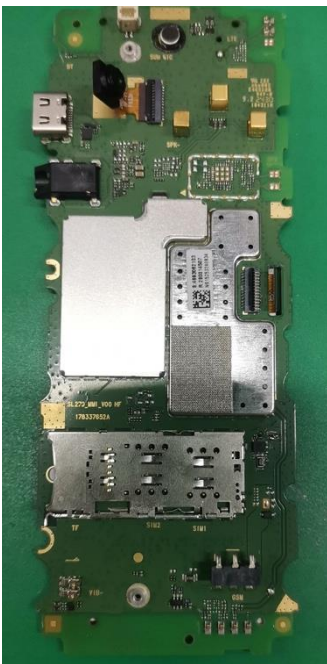


Parts that engineer can replace- CAM Connector

(3) Separate the lower housing,remove the mainboard



(4) Pick the the LCD connector with plastic tweezers,separate the LCD and main board using a pick, remove CAM and the keypad dome, remove the black insulating tape at the back of the earphone socket connector.



Parts that engineer can replace- CAM Connector

(5).The mainboard is placed in the fixture;

Adjust the heat gun temperature to 290°C, set the wind speed to 1;

Apply a small amount of flux around the material to be replaced;

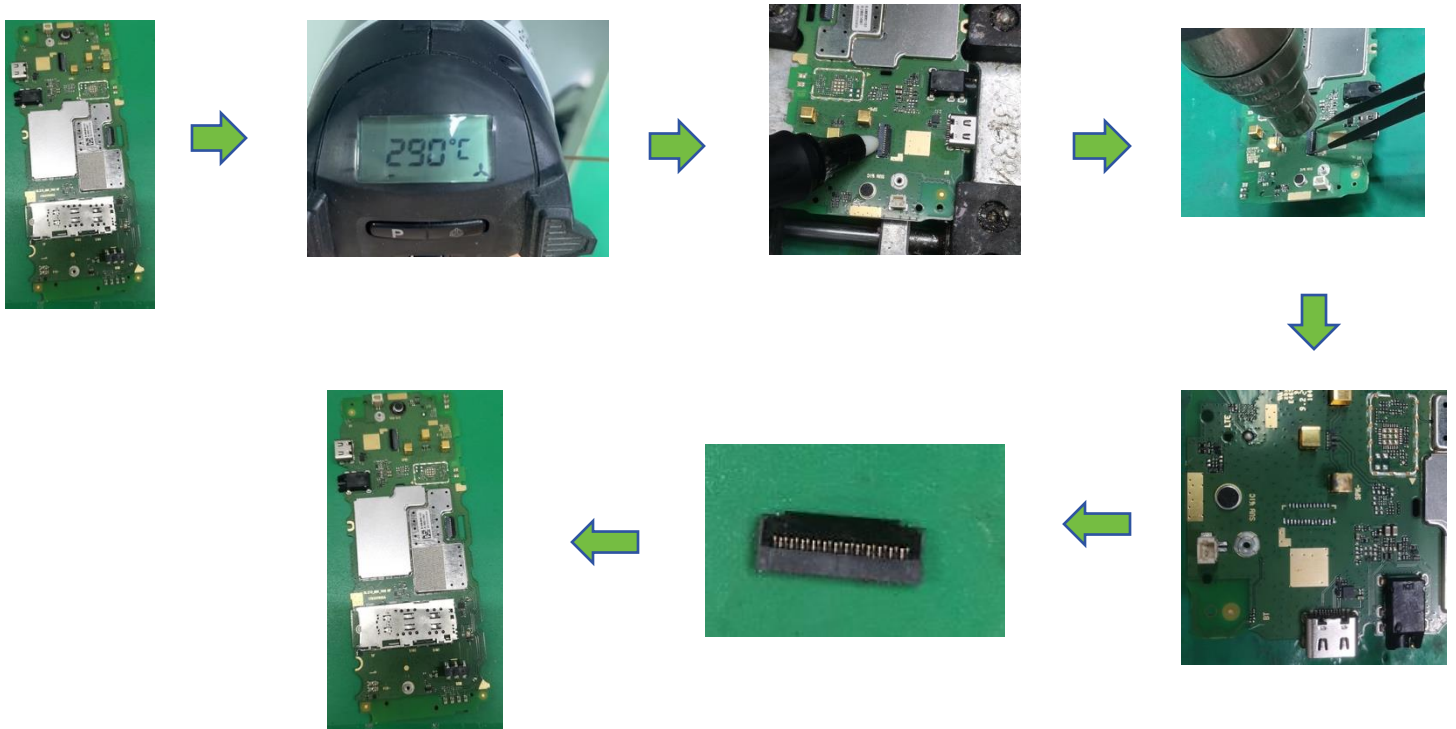
Keep the nozzle 2-3cm away from the material and heat the CAM Connector for about 3min;

Use tweezers to remove the material to be replaced smoothly;

Apply a small amount of flux around the material pad to be replaced

Heat the pad for about 2min, place the new material on the pad, and continue heating for 2min;

Soldering completed;



Parts that engineer can replace- CAM Connector

(6) Reassemble all parts in sequence as shown



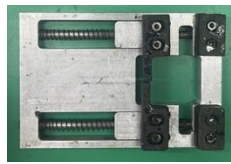
(7) Verify that the camera operates.



Parts that engineer can replace- Torch Connector

1. Whether that the torch can be opened normally.

Tools needed: plastic tweezers, Hexagonal screwdriver, Phillips screwdriver, Card needle, Tweezers, heat gun, mainboard fixture, flux, new Torch connector .



(1) Remove the twelve screws, Remove the battery cover and the battery. Disconnect the power supply.



(2) Remove the flashlight interface, twelve cross screws, card.



Parts that engineer can replace- Torch Connector

(3) Separate the lower housing, remove the mainboard



(4) Pick the the LCD connector with plastic tweezers, separate the LCD and main board using a pick, remove CAM and the keypad dome, remove the black insulating tape at the back of the earphone socket connector.



Parts that engineer can replace- Torch Connector

(5).The mainboard is placed in the fixture;

Adjust the heat gun temperature to 290°C, set the wind speed to 1;

Apply a small amount of flux around the material to be replaced;

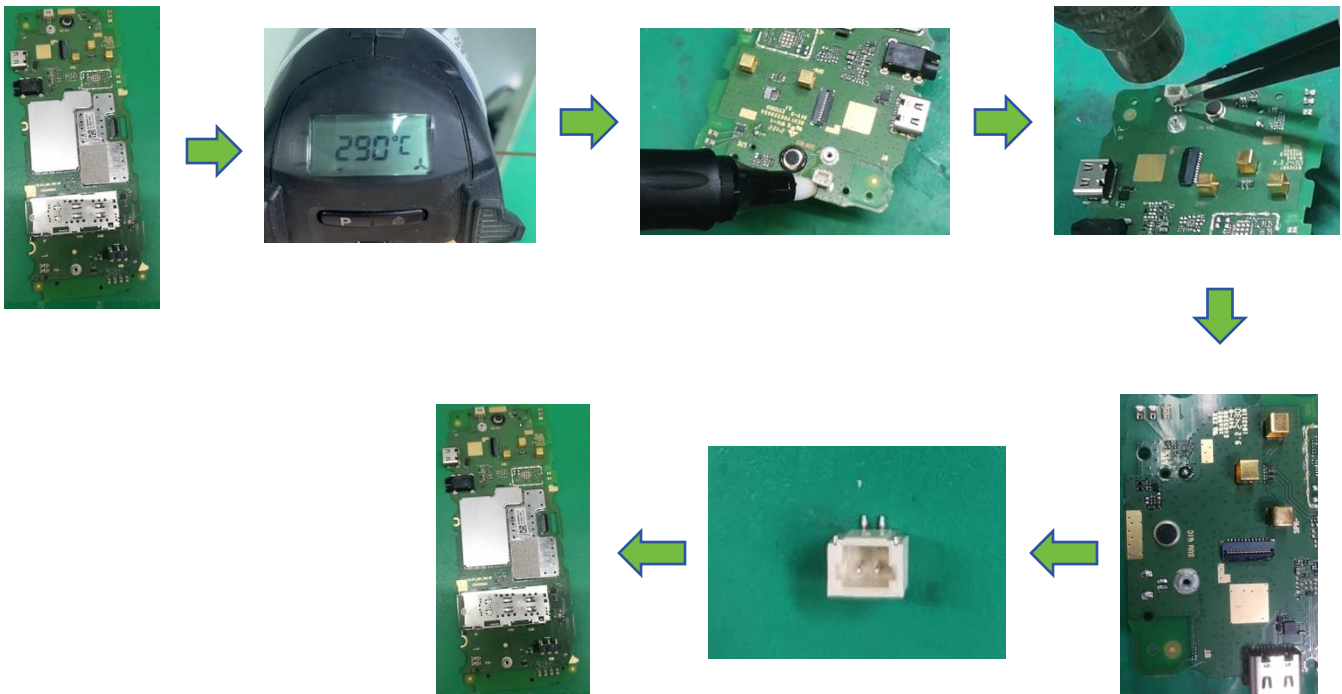
Keep the nozzle 2-3cm away from the material and heat the Torch Connector for about 3min;

Use tweezers to remove the material to be replaced smoothly;

Apply a small amount of flux around the material pad to be replaced

Heat the pad for about 2min, place the new material on the pad, and continue heating for 2min;

Soldering completed;



Parts that engineer can replace- Torch Connector

(6) Reassemble all parts in sequence as shown



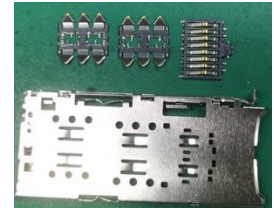
(7) Verify that the torch can be opened normally.



Parts that engineer can replace- SIM Connector

1. Whether that the SIM card can be recognized normally.

Tools needed: plastic tweezers, Hexagonal screwdriver, Phillips screwdriver, Card needle, Tweezers, heat gun, mainboard fixture, flux, new SIM connector.



(1) Remove the twelve screws, Remove the battery cover and the battery. Disconnect the power supply.



(2) Remove the flashlight interface, twelve cross screws, card.



Parts that engineer can replace- SIM Connector

(3) Separate the lower housing, remove the mainboard



(4) Pick the the LCD connector with plastic tweezers, separate the LCD and main board using the dismantling sheet, remove CAM and the keypad dome, remove the black insulating tape at the back of the earphone socket connector.



Parts that engineer can replace- SIM Connector

(5).The mainboard is placed in the fixture;

Adjust the heat gun temperature to 290°C, set the wind speed to 1;

Apply a small amount of flux around the material to be replaced;

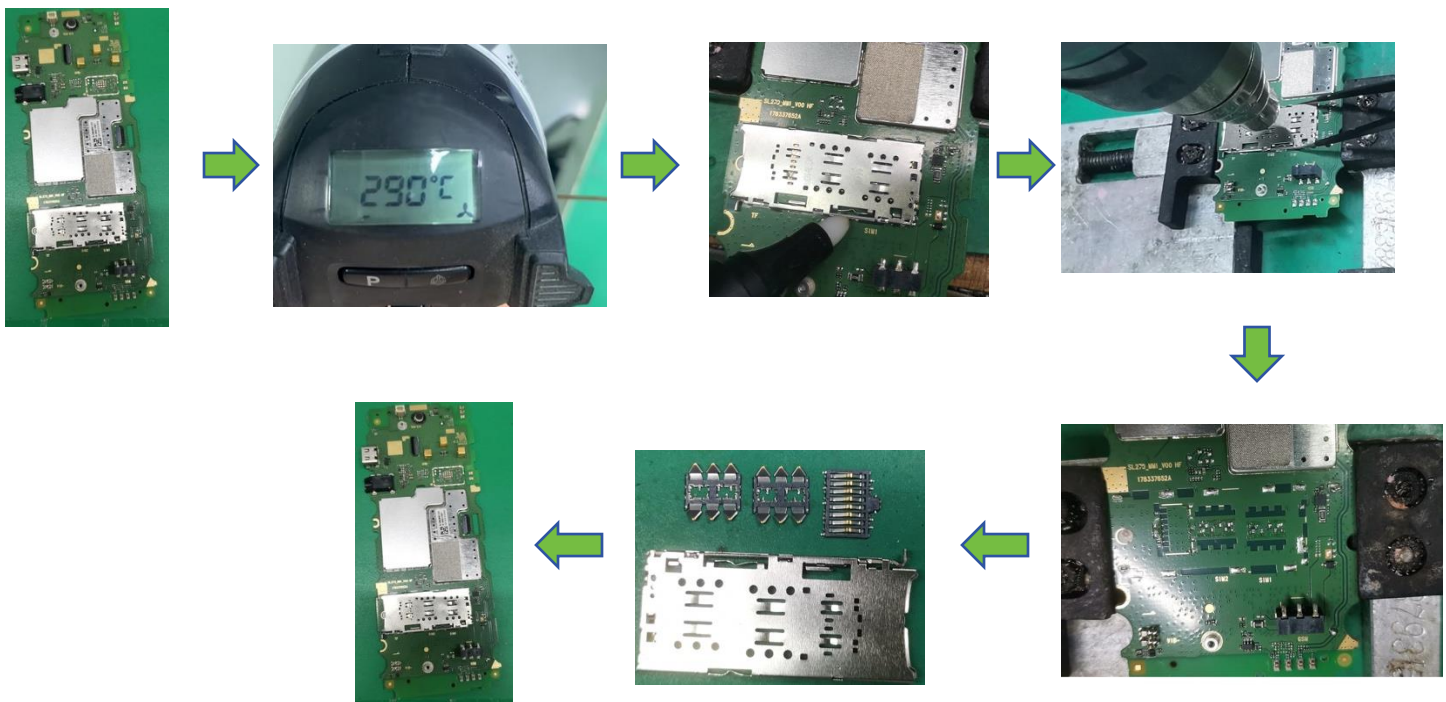
Keep the nozzle 2-3cm away from the material and heat the SIM Connector for about 3min;

Use tweezers to remove the material to be replaced smoothly;

Apply a small amount of flux around the material pad to be replaced

Heat the pad for about 2min, place the new material on the pad, and continue heating for 2min;

Soldering completed;



Parts that engineer can replace- SIM Connector

(6) Reassemble all parts in sequence as shown



(7) Verify that the SIM card can be recognized.



Parts that engineer can replace- Receiver

1. Confirm whether the receiver is working properly.

Tools needed: plastic tweezers, Hexagonal screwdriver, Phillips screwdriver, Card needle, Tweezers, heat gun, mainboard fixture, flux, new receiver.



(1) Remove the twelve screws, Remove the battery cover and the battery. Disconnect the power supply.



(2) Remove the flashlight interface, twelve cross screws, card. Separate the lower housing, remove the flashlight.



Parts that engineer can replace- Receiver

(3) Remove the broken receiver and dustproof net.



(4) Install new dust-proof nets and new receiver, and then apply special glue around the receiver, assemble machine.



Parts that engineer can replace- Receiver

(5) Input *#15963# on the boot main interface, select "Item test" - "Receiver test", listen to whether there is any sound, if so, pass.



Parts that engineer can replace- Speaker

1. Confirm whether the Speaker is working properly.

Tools needed: plastic tweezers, Hexagonal screwdriver, Phillips screwdriver, Card needle, Tweezers, heat gun, mainboard fixture, flux, new speaker and dustproof net.



(1) Remove the twelve screws, Remove the battery cover .

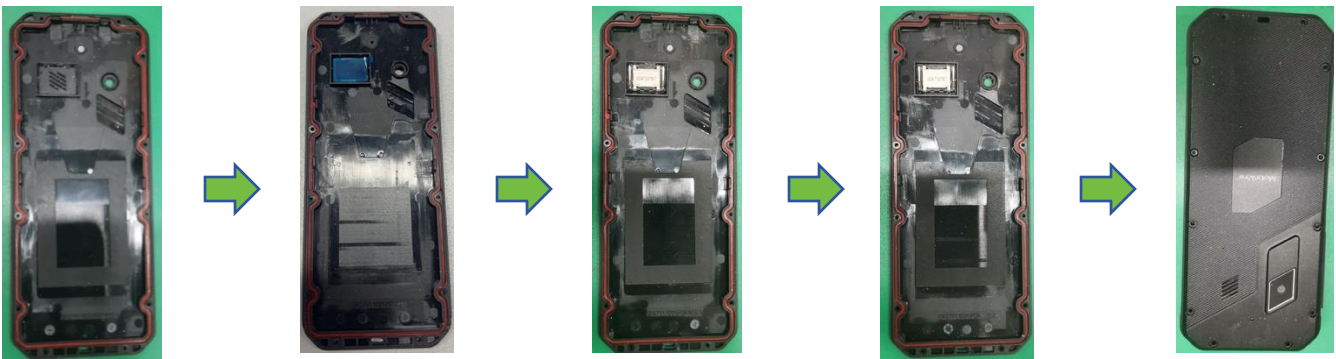


(2) Remove the broken speaker and dustproof net.



Parts that engineer can replace- Speaker

(3).Install new dust-proof nets and new speakers, and then apply special glue around the speakers, assemble machine.



Parts that engineer can replace- Speaker

(4) Make sure the phone speaker is working properly, for example, enter FM to see if there is any sound.



Thank you