

Repair Manual

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Notes

All functions, features, specifications and other device information provided in this document, including but not limited to the device's advantages, design, price, components, performance, availability and functionality, are subject to subsequent changes without further notice. Xiaomi reserves the right to modify this document or the device described herein at any time without obligation to provide notice of such changes.

Repair Precautions

Xiaomi is not responsible for any damage or defects caused by repairs by unauthorized service providers, self-repairs, or repairs by non-professionals. Xiaomi is not responsible for damage to the device, personal injury, or other device safety issues caused by attempts to repair the device without following these repair and maintenance instructions.

Damage or defects caused by attempts to repair the device by anyone other than a Xiaomi-certified service provider are not covered by the warranty.

- Because most electronic components are sensitive to electromagnetic forces, use a demagnetizing tool designed for minor electronic repairs.
- When repairing the device, use a high-quality screwdriver. Avoid damaging the screw heads with inferior screwdrivers.
- Always use OEM (Original Equipment Manufacturer) replacement parts. Using third-party replacement parts may not work properly and may cause fire or personal injury.
- Certain parts, such as sensors (laser autofocus/proximity/fingerprint sensors), rear cameras, TSP (touch screen), speakers, and other components, may require calibration to guarantee their performance after repair.
- If your device is waterproof and dustproof, its waterproof and dustproof performance is not guaranteed if it is repaired by you or other non-professional workers.
- If you need to access the device's fault data or require a more detailed diagnosis, please visit a Xiaomi Service Center.
- If you need to replace an unsold part, please visit the Xiaomi Service Center and get further guidance.
- Before repairing, be sure to back up all important data stored in the device to avoid data loss.

Instructions for Use

Before performing repairs, be sure to wear appropriate safety equipment.

Xiaomi is not responsible for any injuries that may occur as a result of not wearing appropriate safety equipment. Please read the Disassembly and Assembly Tools carefully, understand the list of tools required to assemble and disassemble the device.

- Always repair the device in a safe place.
- Before repairing the device, make sure the device is turned off.
- If the device If the device is damaged, emits smoke, or if you smell something burning, stop using the device immediately and contact Xiaomi.
- It is recommended to wear safety equipment such as glasses, gloves, and masks when repairing the device.
- When removing the back cover, be careful not to damage the device.
- Before assembly, make sure there are no screws or foreign objects around the battery.
- During assembly, check for any abnormalities before reinstalling the back cover, and be careful not to hit or damage the battery. If the battery is damaged, please go to a Xiaomi Service Center.
- Do not heat the device directly in a microwave.
- Before repairing the device, make sure the battery is fully discharged.
- You can visit (<https://spare-parts.mi.com/>) to view device information, related materials and safety information.

ESD (Electrostatic Discharge) Precautions

Electrostatic discharge is the sudden flow of electricity between two charged objects due to contact, short circuit, or dielectric breakdown. ESD can negatively affect mobile devices, especially electronic components.

- It is recommended to use ESD-safe (antistatic) equipment, such as antistatic wrist straps and gloves, and ESD-safe mats when repairing devices.
- Increase airflow in the work area to reduce the possibility of accidental electrostatic discharge, which may increase in low humidity environments (such as air-conditioned rooms).

OTA upgrade

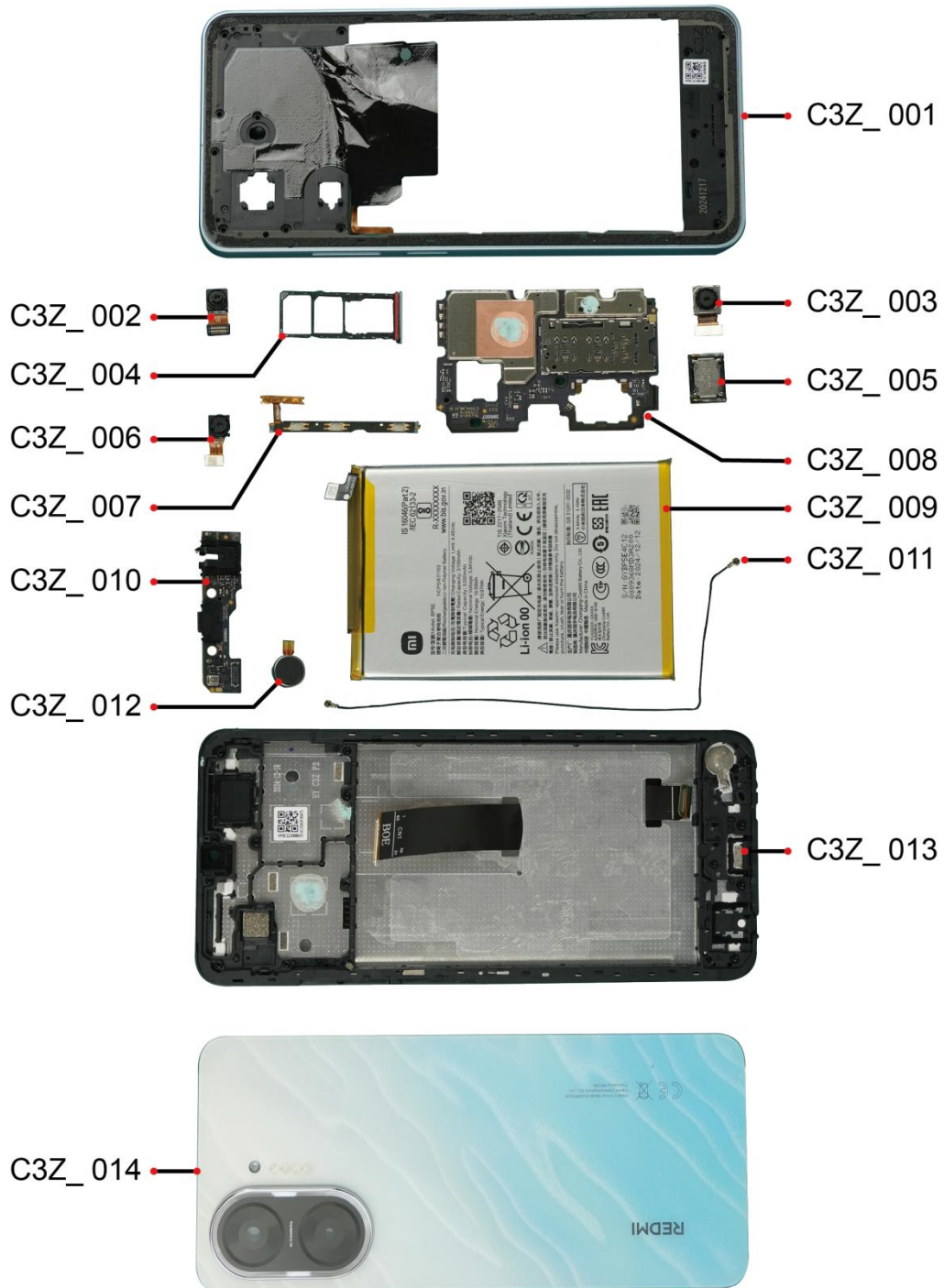
You can check system updates by clicking on the system version number in the phone settings. If the system needs to be upgraded, you can click on the details to view the update log to understand the details of the upgrade and decide whether to update the system version based on your actual situation.

Icon Description

-  **Warning:** Situations that could cause harm to yourself or others;
-  **Caution:** Situations that may cause damage to your device or other equipment;
-  **Tip:** Notes, usage tips, or other information;
-  **Customers:** If you are the customer, please refer to the precautions/operations under this icon;
-  **Professional authorized repairer:** If you are the professional authorized repairer, please refer to the precautions/operations under this icon.

Materials and List

Materials



List

Serial number	Name
C3Z_001	Middle Frame Assy
C3Z_002	Front Camera
C3Z_003	Rear Camera
C3Z_004	SIM Tray
C3Z_005	Receiver
C3Z_006	Front Camera
C3Z_007	FPC-Side Key
C3Z_008	Mainboard Assy
C3Z_009	Battery
C3Z_010	Sub-Board Assy
C3Z_011	Coaxial Cable
C3Z_012	Motor
C3Z_013	Front Cover Display Module
C3Z_014	Battery Cover Assy

Tools and Materials

Tools

 When disassembling and assembling the phone, please be sure to wear protective equipment to prevent injury.

Tool Name	Diagram	Details	Target users
Safety Goggles		Prevent accidents during repair (protective equipment).	 
Safety Gloves (ESD safe, cut-resistant)		Prevent accidents during repair (protective equipment).	 
Safety Mask		Prevent accidents during repair (protective equipment).	 
Anti-static Wrist Strap		Prevent static electricity from damaging the device (recommended).	 

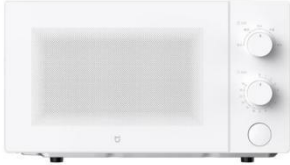
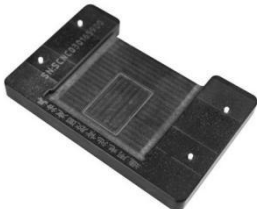
Tool Preparation

Tool Name	Diagram	Details	Target users
ESD Safe Mat		Prevent static electricity from damaging the device (recommended).	 
Ejection Pin		Used to remove the SIM Card Tray (necessary tool).	 
Phillips Screwdriver		Used to remove screws (necessary tool).	 
Plastic Pry Bar		For removing wiring harness connections and other components (necessary tool).	 
Suction Cup		Used for disassembling and assembling the back cover and screen (necessary tool);  If your display is cracked, the suction cup may not stick properly and be careful not to get cut by the broken pieces.	 

Tool Preparation

Tool Name	Diagram	Details	Target users
ESD Safe Tweezers		Used for disassembly and assembly of small parts (necessary tool);  Please do not use metal tweezers to avoid scratching the device and damaging it with static electricity.	 
Plastic Pry Tool		Used to remove the battery cover and other parts (necessary tool);  Other sturdy sheets can be used instead (plastic sheets);  Please do not use metal sheets or blades to avoid damaging the device.	 

Tool Preparation

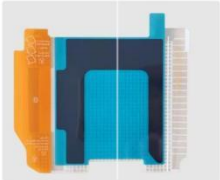
Tool Name	Diagram	Details	Target users
Heating Bag		Used to heat when removing the back cover (necessary tool);  Use the tabs as handles when heating to avoid burns.	
Micro-wave Oven		For heating the Heating Bag (necessary tool).	
Adhesive Backing Fixing Tool		Used to position the adhesive when sticking the battery cover.	
Battery Adhesive Applicator		Used to position the battery glue when sticking it.	
Battery Cover Assembly Press Device		Used when pressing the battery cover to evenly distribute the pressure on the battery cover.	

Tool Preparation

Tool Name	Diagram	Details	Target users
Heating Platform		When removing the battery cover, heat the adhesive on the battery cover to make it easier to separate the battery cover from the device.	
Crimping Tool		Used when pressing the battery cover, so that the pressure can be precisely controlled.	
Air Tightness Tester		Used to detect the air tightness of mobile phones;  If the phone is dustproof and waterproof, the air tightness of the phone needs to be tested after assembly.	

Consumables (adhesives and other materials)

-  Consumables may vary depending on the repair parts, country, region or repair provider.
The content in the table is for reference only.

Name	Diagram	Details	Target users
Battery Cover Adhesive		Used when attaching the battery cover to the device.	 
Easy Release Adhesive-Battery		Used when attaching the battery to the device.	 
Front Cover Display Module		Used when replacing the screen.	 

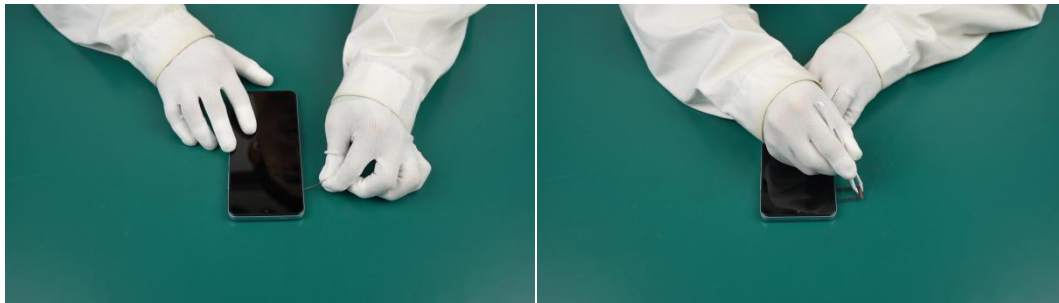
Disassembly

💡 Before disassembly

- Make sure your phone data is backed up to prevent loss of important data.
- Disconnect the device from the power source and turn it off.
- Wear an anti-static wrist strap and connect it to a grounded ESD safety mat.
- The composition of the product may vary by country, region, or repairer.

1. Remove the SIM Card Tray:

Insert the ejection pin into the hole of the SIM card tray to loosen the tray and pull out the tray gently from the slot.



📁 When removing the SIM Card Tray, it is recommended to use your hands or plastic tweezers to avoid scratching the appearance.

💡 For the assembly method of the SIM Card Tray, please refer to the subsequent assembly tutorial in the manual.

2. Heating up the Phone:

 If you are the customer, please refer to the following method:

-  • It is possible for the device or battery to be damaged by heat.
 - Do not heat the device in a microwave. Doing so could cause an explosion.
-  • Follow the heating bag's instructions for heating. The recommended time for heating the bag is 50 seconds in a 1000W microwave and 70 seconds in a 700W microwave. (Correct temperature for use: 55-65 °C.)
 - Be careful not to damage the device through excessive heat. (It is recommended to disassemble the device in an area with a temperature gauge.)

(1) Heat the Heating Bag in the microwave for 2-5 minutes until it reaches about 70 degrees Celsius.



 The heating time needs to be adjusted according to the power of your microwave.

(2) Take the Heating Bag out of the microwave.



 Use the label as a handle when removing the Heating Bag to avoid burns.

Disassembly and Assembly

(3) Place the phone on the Heating Bag and heat it for about 1-2 minutes.



 If you are a professional authorized repairer, please refer to the following method:

(1) Use a heating platform and wait for it to heat up to about 70 degrees Celsius.



(2) Place the phone on the heating platform and continue heating for 1-2 minutes.



 Please heat the device within the specified temperature and time, otherwise it may be damaged or affect subsequent operations.

3.Remove the Battery Cover Assy:

(1) Use the Plastic Pry Tool to gently cut the adhesive on the Battery Cover Assy.

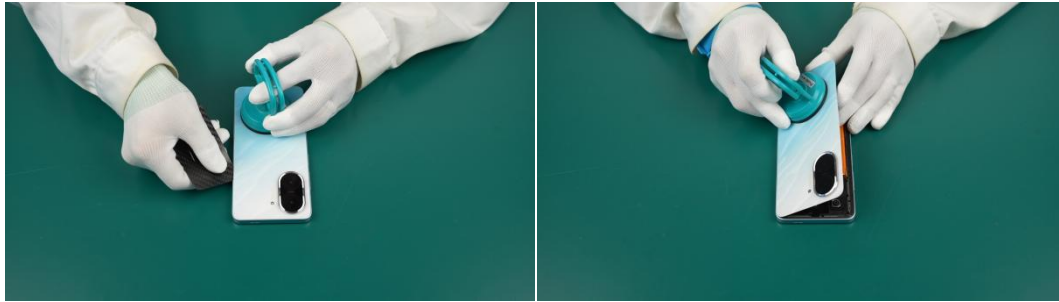


💡 Use the Plastic Pry Tool to slide along the left edge of the device to cut the glue, leaving the Plastic Pry Tool on the left edge side when finished to prevent the adhesive from resealing.

- 📁 • As the Battery Cover Assy may be damaged by excessive force, be careful not to damage the Battery Cover Assy.
- Do not insert the Plastic Pry Tool too deeply into the device as the internal circuitry may be damaged.

Disassembly and Assembly

- (2) Use the Plastic Pry Tool to cut all the glue around the Battery Cover Assy as described above, and then carefully separate the Battery Cover Assy from the device.



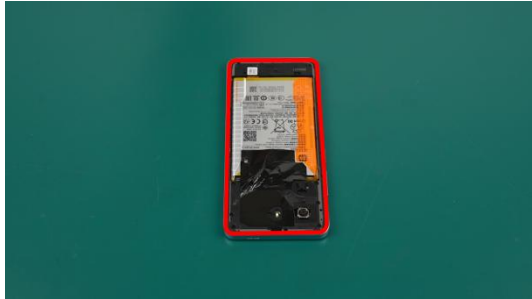
- Be careful not to damage the Battery Cover Assy, as excessive force may damage the Battery Cover Assy.
 - Do not insert the Plastic Pry Tool too far into the device, as it may damage the internal circuitry.
- 💡 If it's difficult to create a gap, reheat to further soften the adhesive. When reheating, do not reheat for more than 30 seconds.

Anti-shattering of glass/ceramic back cover:

- Avoid pressing hard on the center of the back cover when separating (especially for curved screen models) to prevent glass cracking due to stress concentration.
- If the back cover is broken, fix the fragments with tape before operation to avoid scratching your fingers or dropping them into the device.

4.Remove Adhesive:

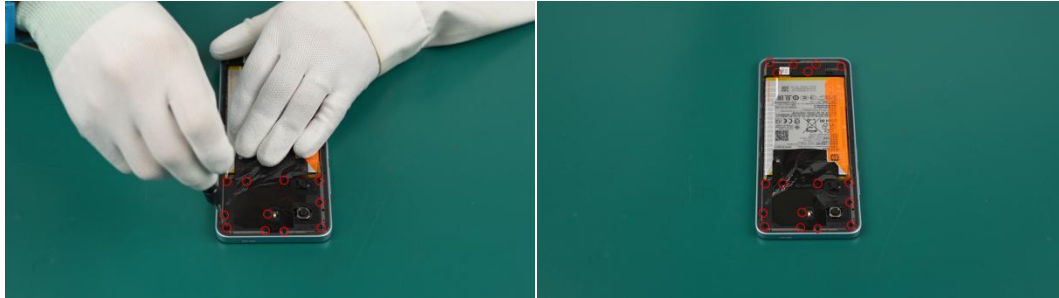
Remove any remaining adhesive from the Battery Cover Assy before reassembling your device.



- Be careful not to put your fingers or any foreign objects on the rear camera or back cover lens to avoid scratching the device;
- If you have difficulty separating the adhesive, please reheat the device or use special alcohol to assist.

5.Remove the Middle Frame Assy:

(1) Use a needle screwdriver to remove the screws.



 Check the number of screws that have been removed and keep them in a safe place to ensure that no unassembled screws are left inside the device during the assembly process.

(2) Turn the phone over and use a Plastic Pry Tool to slide along the edge of the screen to cut the adhesive.



Disassembly and Assembly

(3) Turn the phone over and disconnect the Middle Frame Assy wiring harness connector from the Mainboard Assy to remove the middle frame.



 When operating, pay attention to the cables connecting the Middle Frame Assy and the Mainboard Cover Assy. Make sure the Cables are completely separated before proceeding to the next step to avoid damaging the Mainboard Cover Assy.

6. Disconnect the Cables:

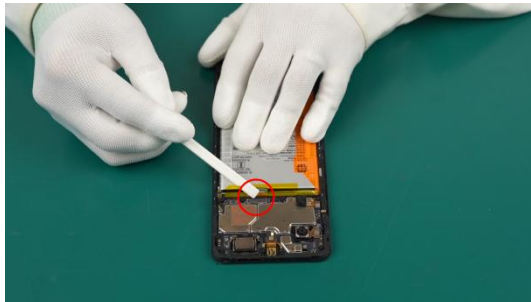
(1) Disconnect the Battery.



• For your safety, always disconnect the battery connector first.

• Be careful not to damage the battery.

(2) Disconnect the FPC Assy from the Mainboard Assy.



7.Remove the Camera Assy:

(1)Disconnect and remove the Camera-Depth.



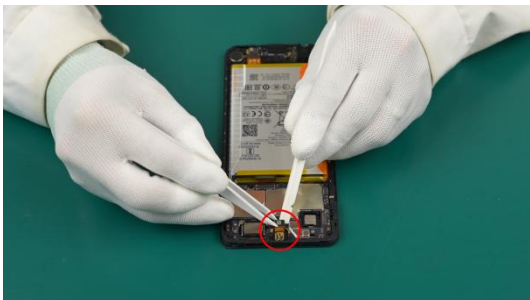
 Do not touch the camera lens directly during operation to avoid scratching the lens.

(2)Disconnect and remove the Rear Camera.



 Do not touch the camera lens directly during operation to avoid scratching the lens.

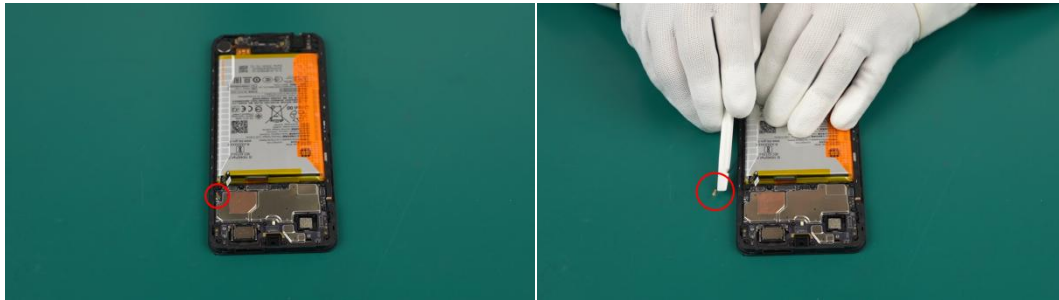
(3) Disconnect and remove the Front Camera.



 Do not touch the camera lens directly during operation to avoid scratching the lens.

8. Disconnect the Coaxial Cables:

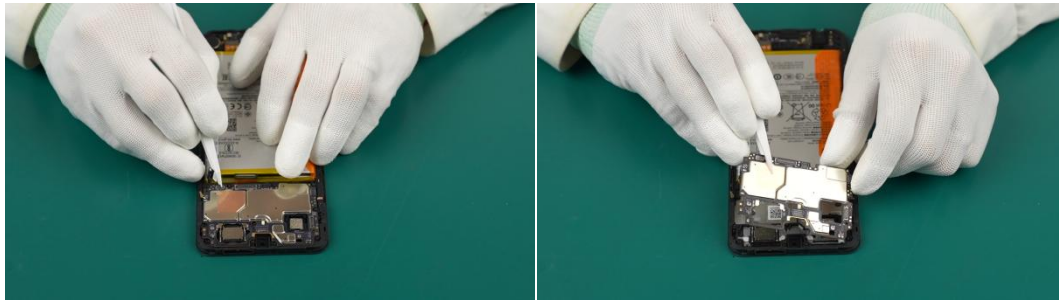
Disconnect the Coaxial Cables from the Mainboard Assy.



- Be careful not to damage the wiring harness interface and surrounding components during operation.
- Do not pull the cable directly when disconnecting to avoid breaking it.
- You can use the flat side of a Plastic pry bar to gently pry up the connector.
- Please tidy up the wiring harness after disconnecting to avoid affecting subsequent operations.

9.Remove the Mainboard Assy:

Remove the Mainboard Assy from the phone.



-  Carefully lift the Mainboard Assy with tweezers and remove the Mainboard Assy, being careful not to damage the PBA board.
 - Do not touch the Mainboard Assy directly with metal tools to avoid scratching the Mainboard Assy and static damage.
 - Use moderate force when holding components with tweezers to avoid squeezing small components such as capacitors and resistors.
-  For Mainboard Assy assembly methods, please refer to the subsequent assembly tutorials in the manual.

10. Remove the Receiver:

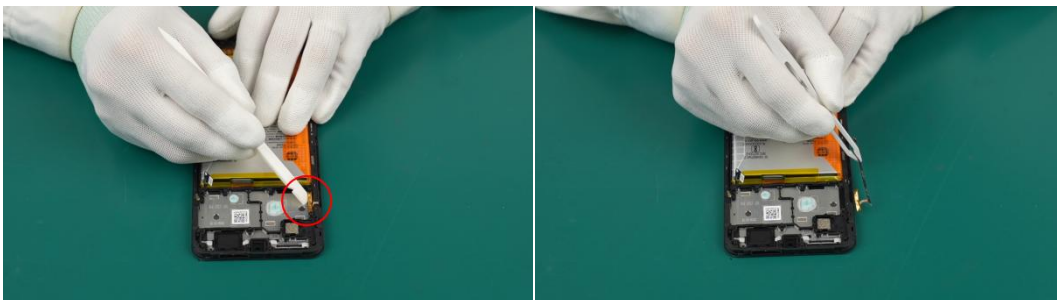
The receiver cable is attached to the device. Carefully disconnect the adhesive and remove the receiver.



Do not use metal tweezers or other hard tools as they may scratch the device.

11. Remove the FPC-Side Key:

Use the end of a Plastic Pry Bar to gently scrape the foil and disconnect it from the device. Then use ESD Safe Tweezers to remove the FPC-Side Key.

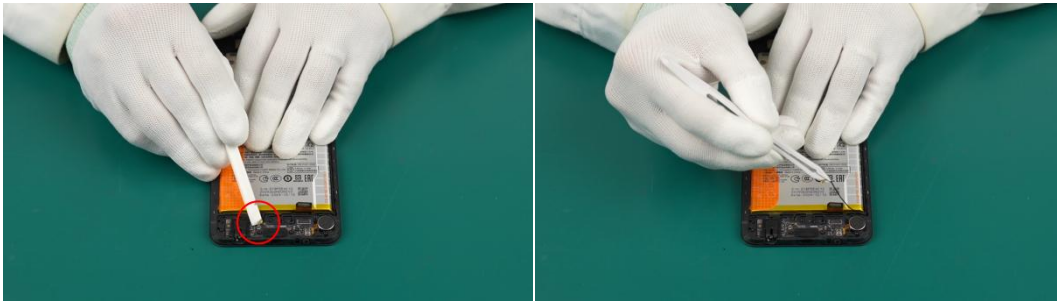


12.Remove the Sub-Board Assy:

(1) Disconnect the FPC cable.



(2) Disconnect and remove the Coaxial Cable.



(3) Remove the Sub-Board Assy.



i Pay attention to the clips around the Sub-Board Assy during operation. Make sure the clips are completely separated before proceeding to the next step to avoid damaging the Sub-Board Assy.

13. Remove the Motor:

Use tweezers to remove the Motor.



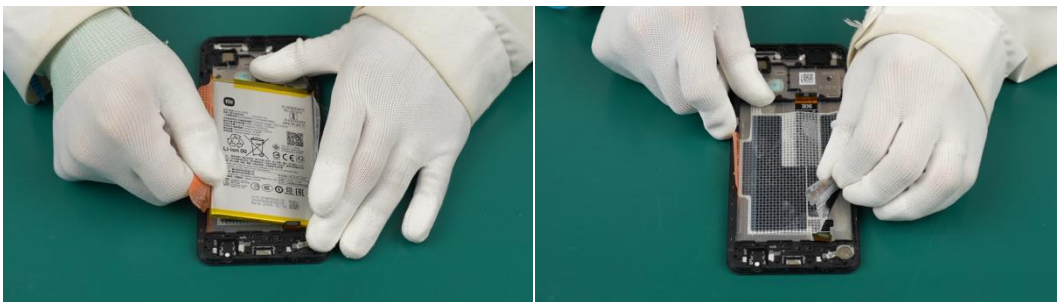
 Please do not use metal tweezers or other hard tools to avoid scratching the device.

14. Remove the Battery:

(1) Tear off the Easy release adhesive.



(2) Remove the Battery and tear off the remaining Easy release adhesive on the device.



 Be careful not to damage the battery.

 You can use special alcohol to help remove the adhesive, or use the microwave to heat the heating bags, then heat the device before removing it.

Assembly



Before reassembly, please confirm the following:

- Thoroughly remove any residual adhesive.
- Prepare the screws and new adhesive required for the device.
- Wear an anti-static wrist strap and connect it to a grounded ESD safe mat.
- Do not leave any unassembled screws inside the device. Leaving screws inside the device may damage internal components such as the battery. Please be extremely careful during assembly.
- The composition of the product may vary by country, region, or repairer.

1.Assemble the Motor:

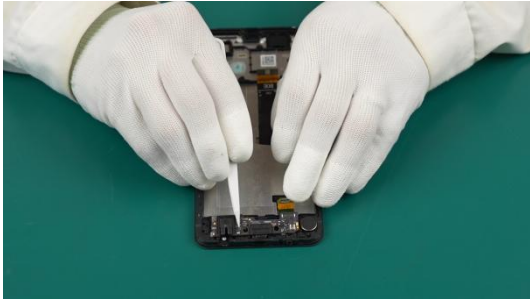
Place the Motor into the correct position on the device.



 Do not use metal tweezers or other hard tools as they may scratch the device.

2.Assemble the Sub-Board Assy:

- (1)Place the Sub-Board Assy into the correct position on the device, install and press gently to ensure it is firmly in place.



-  When installing the Sub-Board Assy, check that the placement is correct. If the placement is incorrect, the Sub-Board Assy may not be installed correctly.

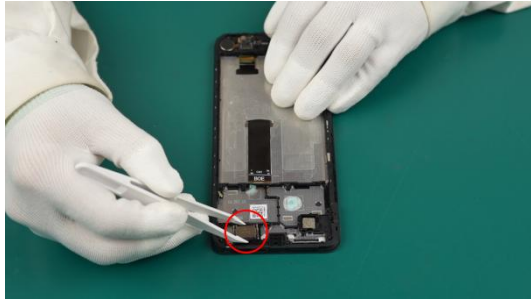
- (2) Connect the Coaxial Cable to the Sub-Board Assy and snap the Coaxial Cable back into the slot.



-  Be careful not to damage the wiring harness when arranging it.
-  You can press the wiring harness interface with your fingers. If you can clearly feel a "click" sound, it means the interface is connected in place.

3. Assemble the Receiver:

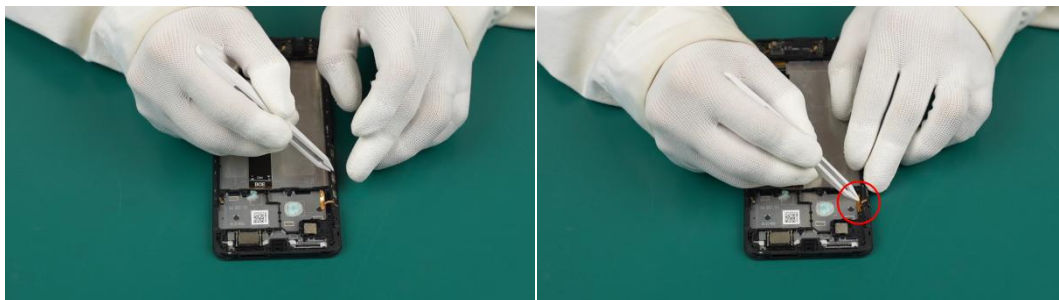
Use tweezers to put the Receiver into the correct position and press gently to make sure it is in place.



 Please do not use metal tweezers or other hard tools to avoid scratching the device.

4. Assemble the FPC-Side Key:

Put the FPC-Side Key into the proper position and Press gently to make sure it is in place, then install the cables in place.



 During the subsequent assembly process, you need to check whether the FPC-Side Key harness is lifted up to avoid squeezing the harness during assembly.

5. Assemble the Mainboard Assy:

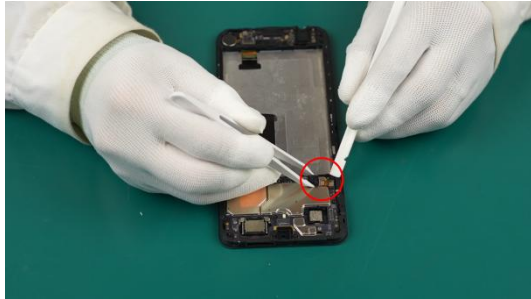
Put the Mainboard Assy into the phone and press lightly to ensure it is firmly in place.



 Please make sure that all the clips are locked into place, otherwise it will affect the subsequent assembly.

6. Assemble the Camera Assy:

- (1) Place the Camera-Depth in the correct position of the device and connect it to the Mainboard Assy.



- Do not touch the camera lens directly during operation to avoid scratching the lens.
 - Do not use hard tools during operation, as this may damage the Conductive Cloth or Graphite Sheet.
- 💡 You can press the wiring harness interface with your fingers. If you can clearly feel a "click" sound, it means the interface is connected in place.
- Attach the Copper Foil flatly. You can press lightly with your fingers to ensure it fits securely.

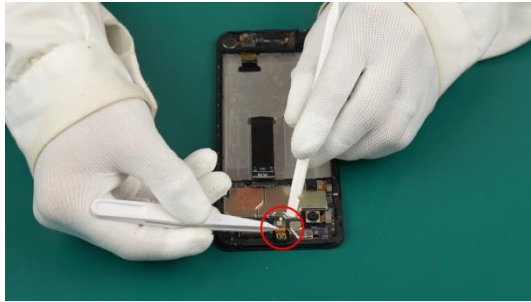
- (2) Place the Rear Camera Wide Angle in the correct position of the device and connect it to the Mainboard Assy.



- Do not touch the camera lens directly during operation to avoid scratching the lens.
- 💡 You can press the wiring harness interface with your fingers. If you can clearly feel a "click" sound, it means the interface is connected in place.

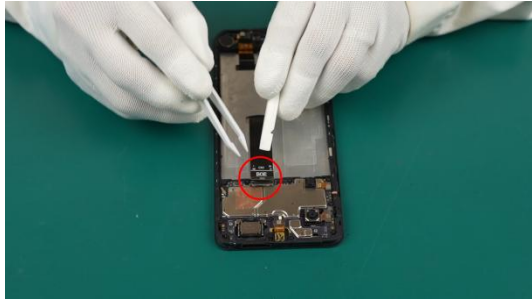
Disassembly and Assembly

- (3) Place the Front Camera in the correct position of the device and connect it to the Mainboard Assy. Then lay the Copper Foil flat.



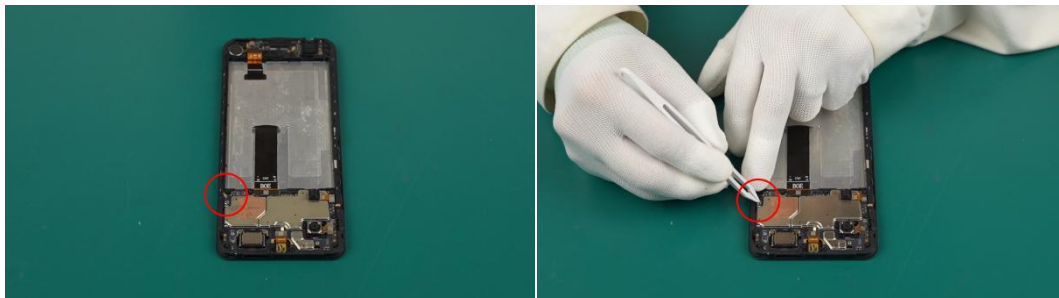
7. Assemble the FPC Assy:

- (1) Align the wiring harness interface of the FPC Assy with the Mainboard Assy for connection.



- 💡 You can press the wiring harness interface with your fingers. If you can clearly feel a "click" sound, it means the interface is connected in place.

- (2) Align the wiring harness interface of the Coaxial Cable with the mainboard slot and connect it.

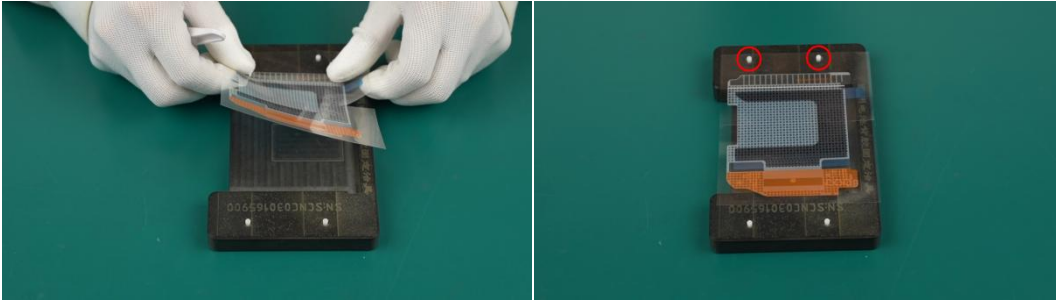


- 💡 You can press the wiring harness interface with your fingers. If you can clearly feel a "click" sound, it means the interface is connected in place.

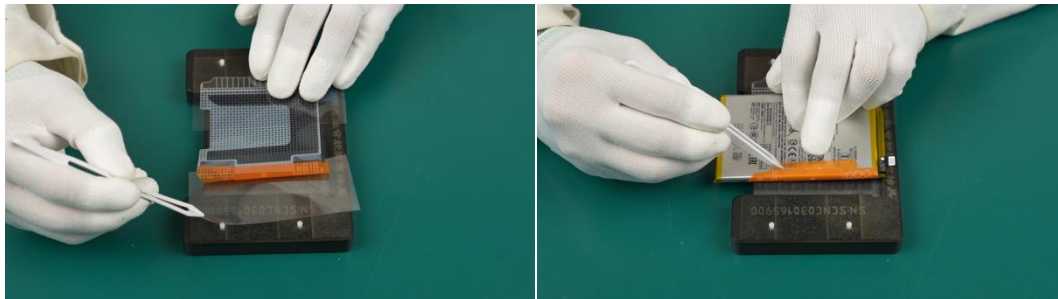
8. Assemble the Battery:

 If you are a professional authorized repairer, please refer to the following method:

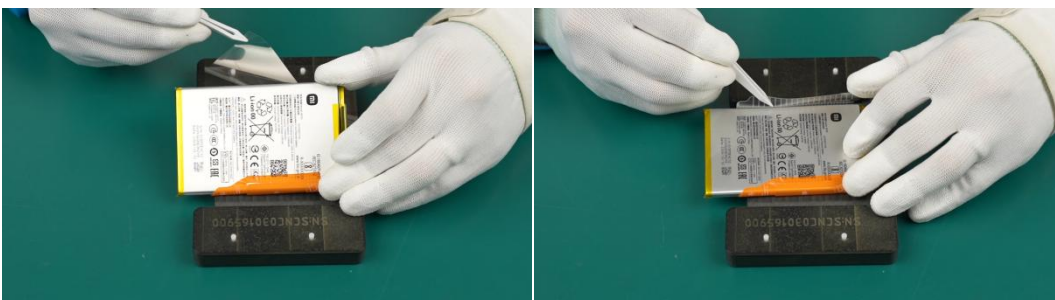
(1) Align the positioning hole of the Easy Release Adhesive with the positioning column of the Battery adhesive applicator.



(2) Tear off the protective film, try to avoid touching the adhesive surface to prevent it from being contaminated and affecting the assembly effect, then align and attach the batteries.

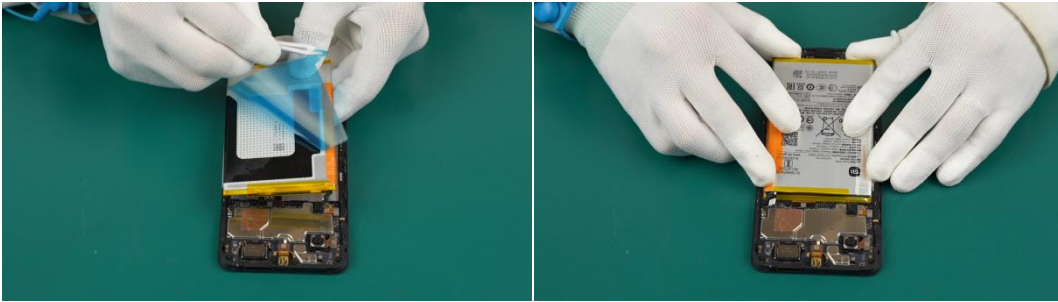


(3) Tear off the protective film on the other side of the Easy Release Adhesive, then align and attach the batteries, and try to avoid touching the adhesive surface.

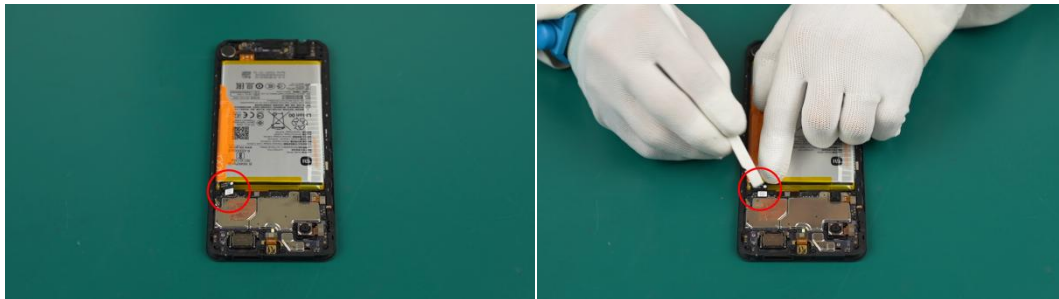


Disassembly and Assembly

- (4) Then tear off the protective film on the back of the Easy Release Adhesive, align the phone to the correct position, then put the Battery in.



- (5) Connect the Battery to the Mainboard Assy.



9. Assemble the Middle Frame Assy:

- (1) Align the wiring harness connector on the bottom of the Middle Frame Assy with the Mainboard Assy slot and connect it.



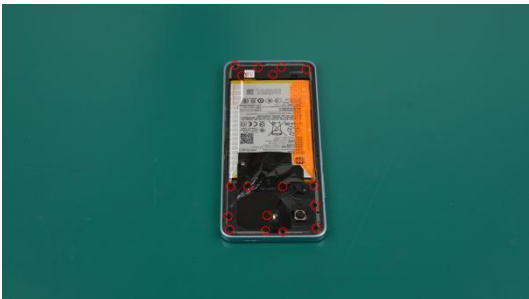
- 💡 You can press the wiring harness interface with your fingers. If you can clearly feel a "click" sound, it means the interface is connected in place.

Disassembly and Assembly

- (2) Place the Middle Frame Assy in the correct position of the device, align the screw holes, and press gently to ensure it is installed in place.



- (3) Tighten the screws.



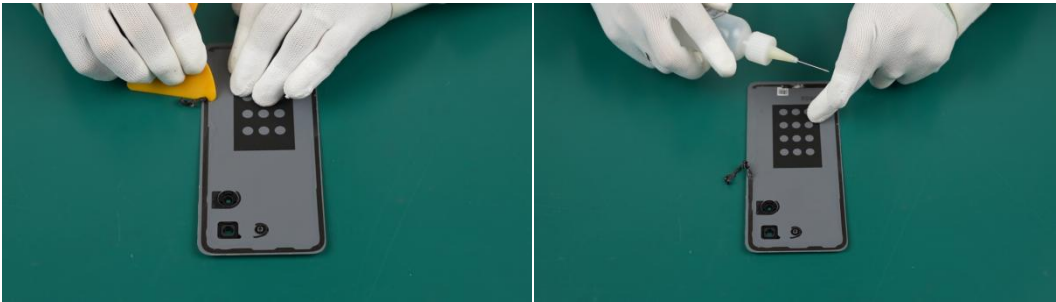
-  Please check the number of screws installed to ensure that no unassembled screws are left inside the device.

10. Assemble the Battery Cover Assy:

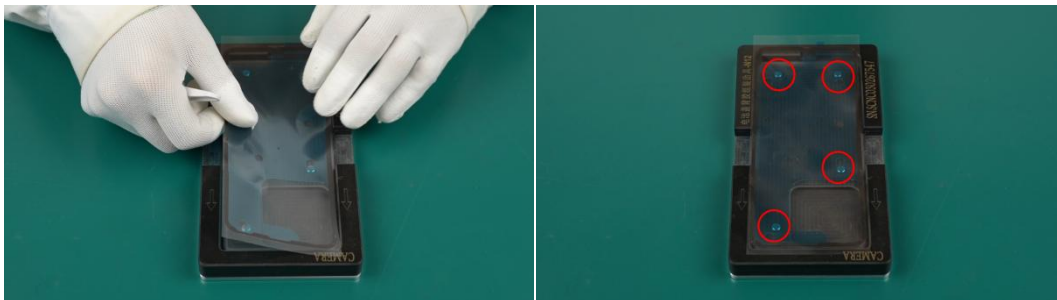


If you are a professional authorized repairer, please refer to the following method:

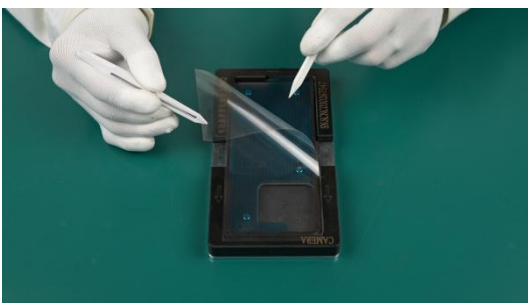
- (1) Use a tool to remove the old adhesive (Battery Cover Adhesive). If it is difficult to remove, apply alcohol to the adhesive (Battery Cover Adhesive).



- (2) Put the Battery Cover Adhesive into the Adhesive backing fixing tool, and align it with the positioning hole.

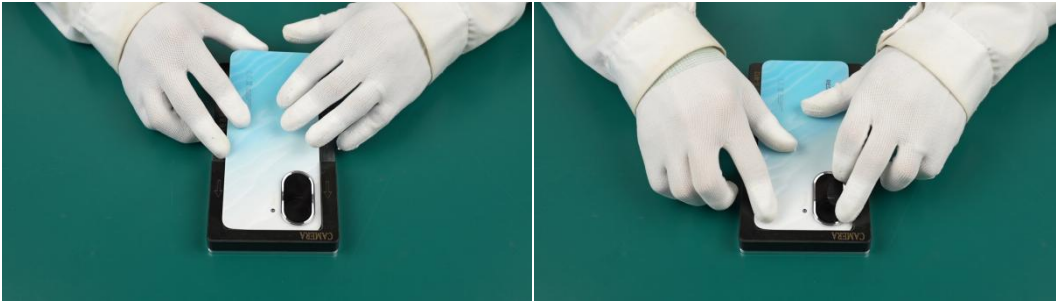


- (3) Tear off the protective film of the Battery Cover Adhesive, and do not touch the adhesive surface.

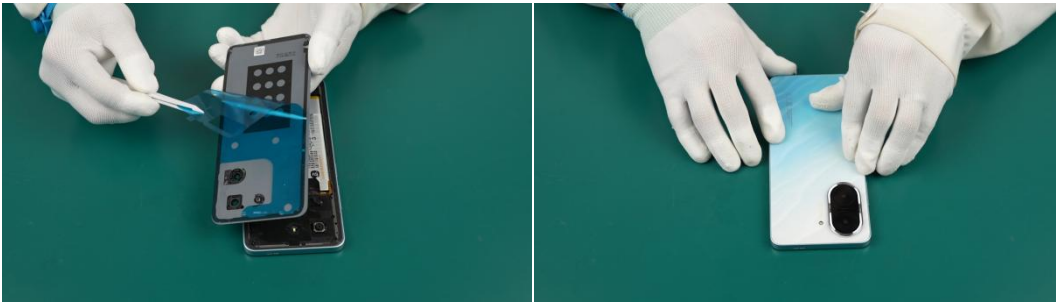


Disassembly and Assembly

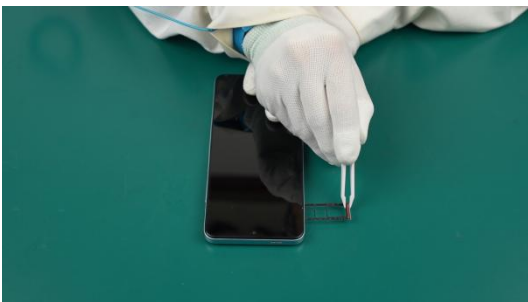
- (4) Put the Battery Cover Assy into the Adhesive backing fixing tool, press gently to make the Battery Cover Adhesive and the Battery Cover Assy fit together.



- (5) Tear off the protective film on the other side of the Battery Cover Adhesive, align the Battery Cover Assy with the device, and press gently to install it in place.



11. Assemble the SIM Card Tray:



 Please do not use hard tools to install the SIM card tray to avoid scratching the device.

12.Crimp Mobile Phone:

-  If you are the customer, please press gently on a flat surface to ensure that the Battery Cover fits securely.



-  If you are a professional authorized repairer, place the phone into the Battery cover assembly press device and press for 60 seconds using the Crimping tool.

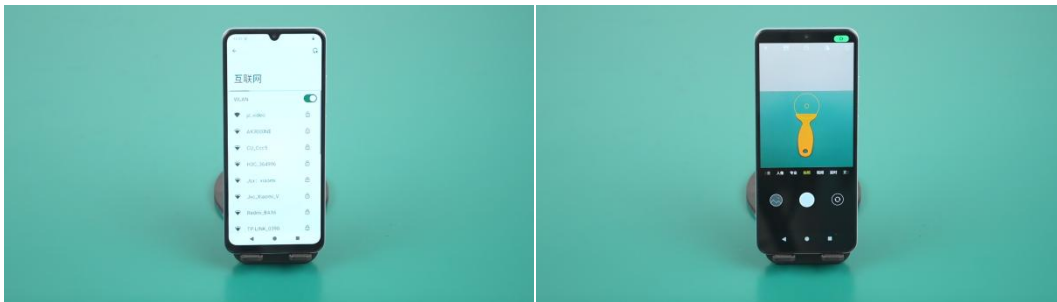


13. Test Phone Functions:

(1) Check whether the phone can be turned on normally.



(2) Test whether the phone's Wi-Fi, Bluetooth, sound, camera and other functions can be used normally.



Calibration and Quality Inspection

To ensure proper assembly, it is recommended to calibrate and inspect the device after assembly. If any fault occurs during repair/assembly, calibration and inspection can help locate and identify the problem quickly. Please go to a Xiaomi Authorized Service Center for further assistance. Any fault caused by repair may incur additional repair costs.

Calibration

Please refer to the link for specific calibration methods.

https://cdn.shopify.com/s/files/1/0955/8360/0979/files/Mobile_phone_basic_function_test.pdf?v=1747878433

Quality Inspection

Please refer to the link for specific inspection methods.

链接待提供

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