

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 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.

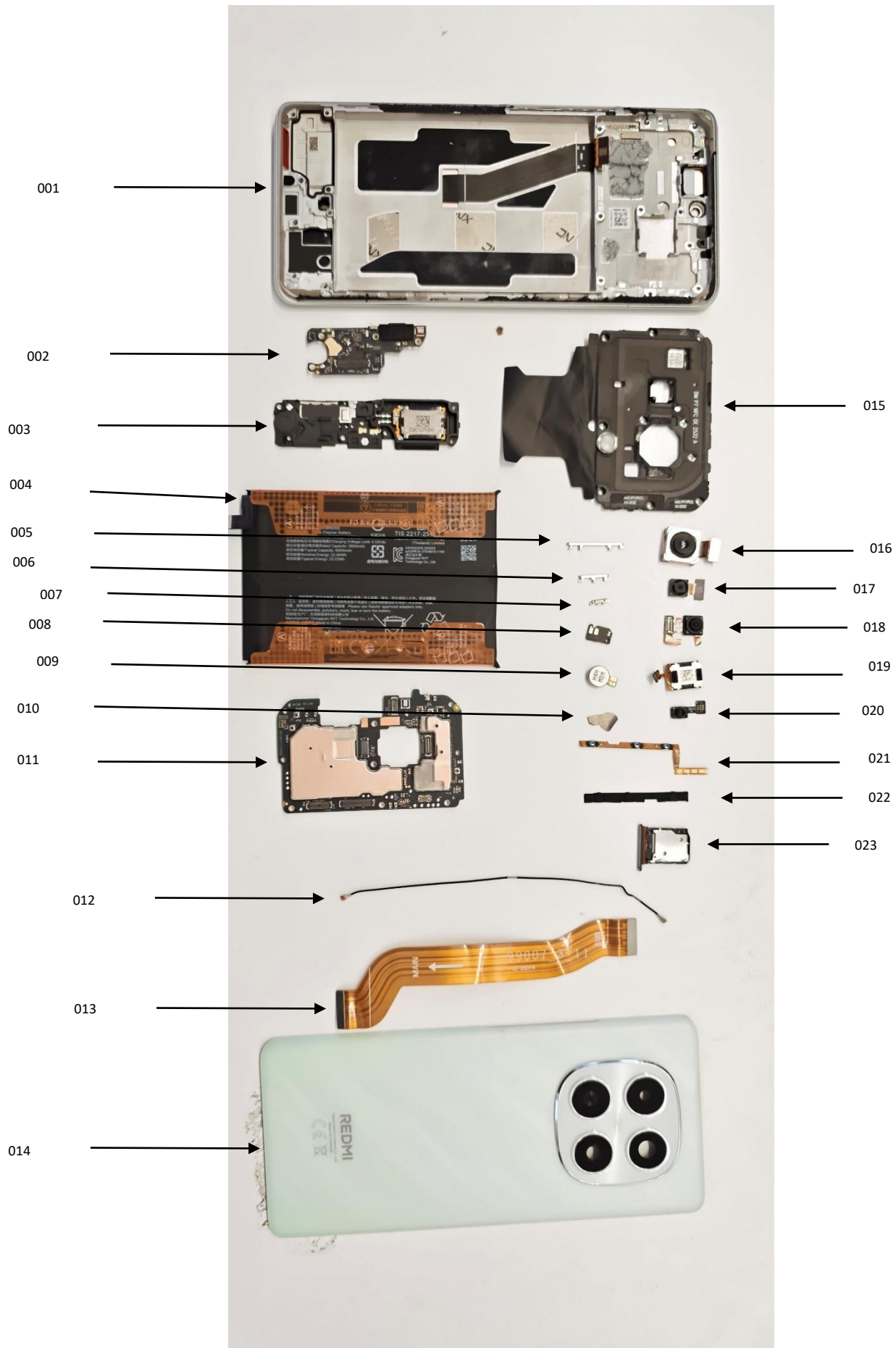
Icon Description

-  **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

Tool Preparation



List

Serial number	Name
001	Battery Cover Assy Front Cover Display Module
002	Front Cover Display Module Sub-Board Assy
003	Receiver Speaker Assy
004	Mainboard Assy Battery
005	Volume Key
006	Power Key
007	Button retaining pin
008	Flash Light Board Assy
009	Vibrator
010	Conductive Cloth-Motor
011	Mainboard Assy
012	Coaxial Cable-Black
013	Main FPC
014	Battery Cover Assy
015	Support-Antenna Assy
016	Rear camera-Wide
017	Rear camera-Depth
018	Front camera
019	Receiver
020	Finger Print Module-Under Display
021	FPC-Volume+Power
022	Side key FPC bracket
023	SIM Card Tray

Tools and Materials

Tools

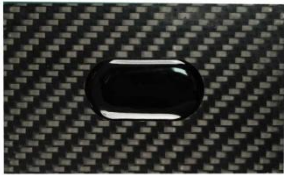
 When disassembling and assembling the phone, please be sure to wear protective equipment to prevent injury.

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).	 

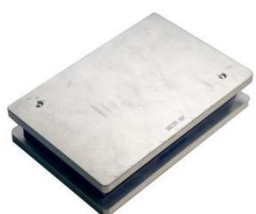
Tool Preparation

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 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.	 
Battery		Used when replacing the battery.	 
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.

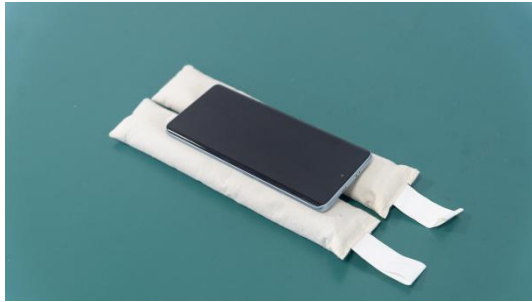
(2) Take the Heating Bag out of the microwave.



 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 a Suction Cup and Plastic Pry Tool to gently cut the adhesive on the Battery Cover Assy.

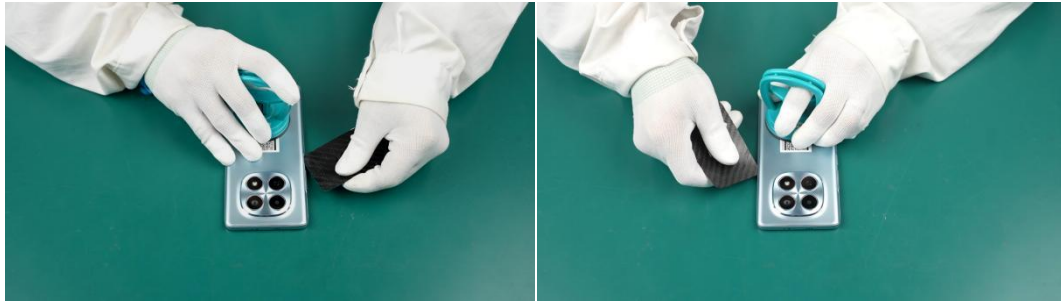


 Use the Plastic Pry Tool to slide along the left edge of the device to cut the glue, leaving the Plastic Pry Tool on the left edge side when finished to prevent the adhesive from resealing.

-  • 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.

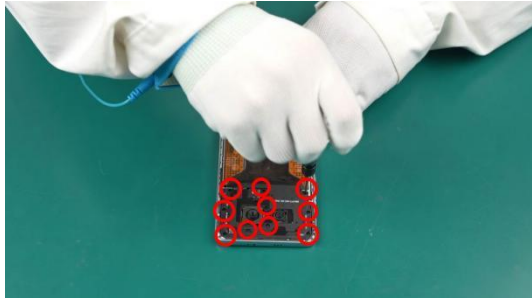
(3) Remove the Battery Cover Assy .



-  • 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.

4. Remove the Mainboard Cover 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.

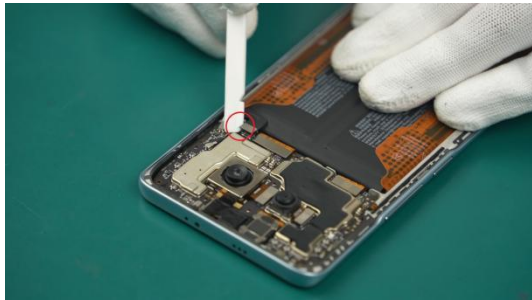
(2) Then lift up the Mainboard cover Assy and remove the Mainboard Cover Assy.



 Pay attention to the clips around the Mainboard Cover Assy during operation. Make sure the clips are completely separated before proceeding to the next step to avoid damaging the Mainboard Cover Assy.

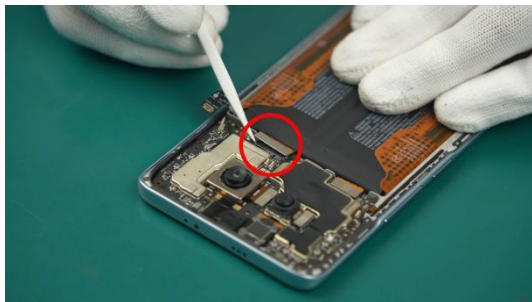
5. Disconnect the Cables:

(1) Disconnect the Battery cable.

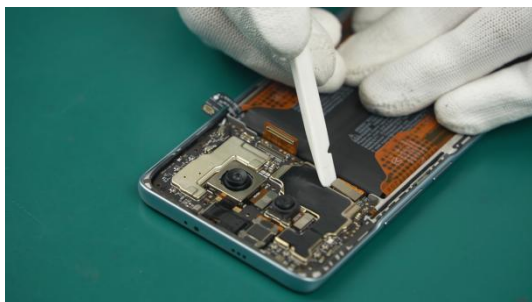


- For your safety, always disconnect the battery cable first.
- Be careful not to damage the battery.

(2) Disconnect the FPC Assy-TP Transfer from the Mainboard Assy.

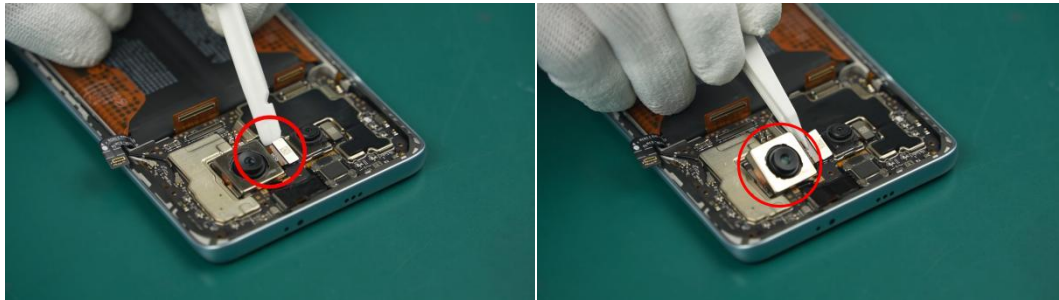


(3) Disconnect the FPC Assy-Mainboard_subboard from the Mainboard Assy.



6. Remove the Camera Assy:

(1) Disconnect the Camera-Rear-Main and remove it from the device.



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

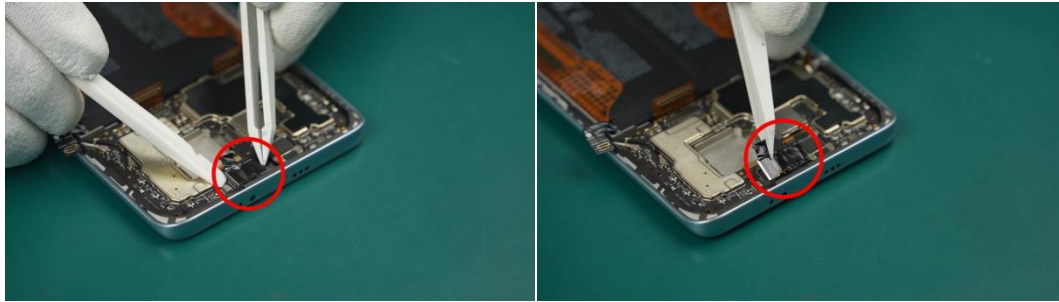
(2) Disconnect the Camera-Rear- Depth and remove it from the device.



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

Disassembly and Assembly

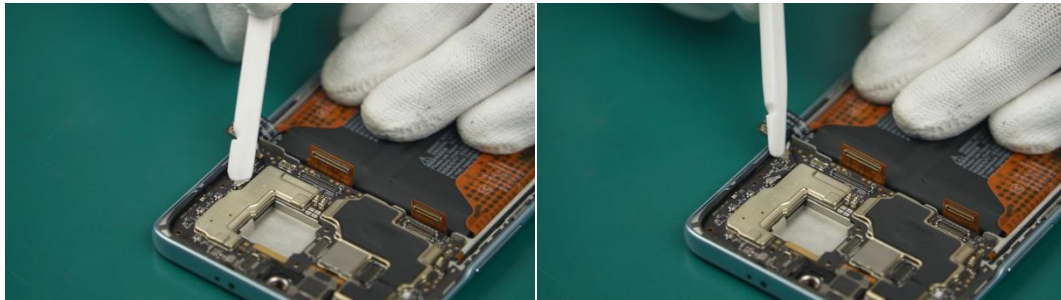
(3) Disconnect the Camera-Front and remove it from the device.



- Do not touch the camera lens directly during operation to avoid scratching the lens.
- The camera lens and sensor are very precise. Finger grease or dust will affect the image quality. Wear gloves or hold with a dust-free cloth when operating.
- If you need to clean the lens, use special lens paper or cotton swab dipped in a small amount of anhydrous alcohol to gently wipe it. Do not use paper towels or hard objects to scratch it.
- The camera is usually connected to the mainboard via an FPC cable. You need to disconnect the cable interface before disassembly:
- Use tweezers to gently lift the pressure plate before pulling out the cable. Do not pull the cable directly.
- If the cable is stuck to the Mainboard Assy, use a Plastic Pry Bar to gently lift it up to avoid breaking the cable.

7. Disconnect the Coaxial Cables:

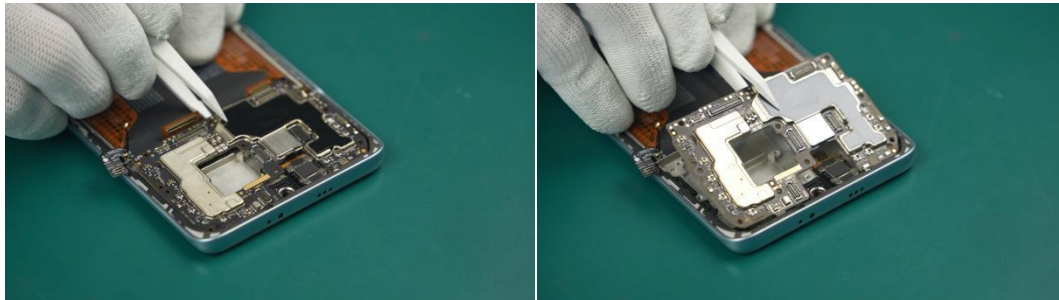
Disconnect the Cable-Black from the Mainboard.



- Be careful not to damage the cable 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 cable after disconnecting to avoid affecting subsequent operations.

8. 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.

9. Remove the Receiver:

Disconnect the Receiver contacts from the device, then remove the Receiver.



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

10. Remove the Side Key FPC:

Use tweezers to disconnect and remove the Side Key FPC from the device.



 Use ESD Safe Tweezers to cut the adhesive between the Side Key FPC and the device.

Use ESD Safe Tweezers to press one side of the Side Key FPC in the slot to lift up the other side of the Side Key FPC. Then use ESD Safe Tweezers to remove the Side Key FPC.

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

11. Remove the Sub-Board Assy:

(1) Remove the screws one by one.



 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.

Disassembly and Assembly

(2) Remove the speaker



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

(3) Disconnect the Coaxial Cable-Black from the device.

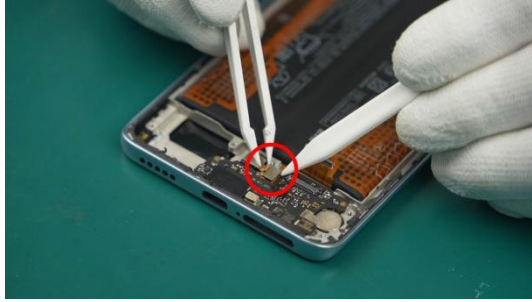


(4) Disconnect the FPC Assy from the Sub-Board Assy.



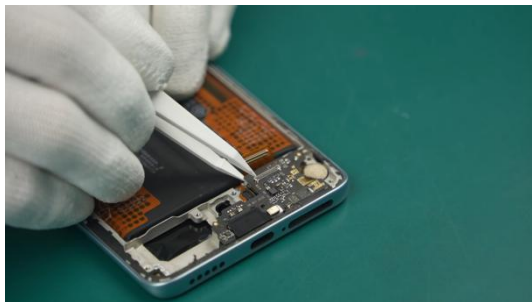
Do not use metal tools during operation to avoid scratching the device.

(5) Remove the Fingerprint Module from the Sub-Board Assy.



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

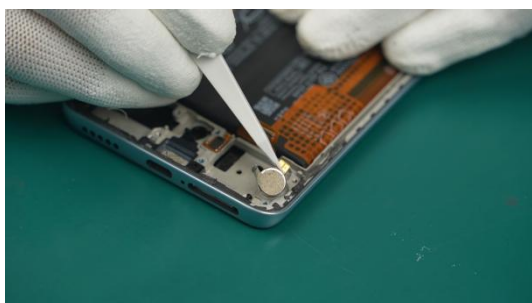
(6) Remove the Sub-Board Assy.



 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.

12. Remove the Vibrator:

Use tweezers to remove the Vibrator.

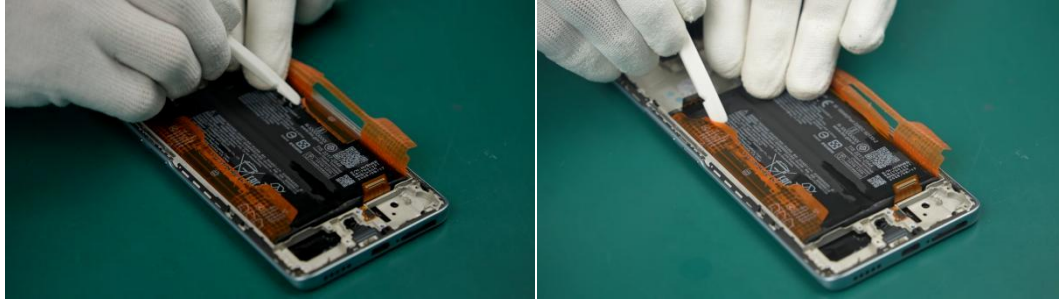


 Please do not use metal tweezers or other hard tools to avoid scratching the device.

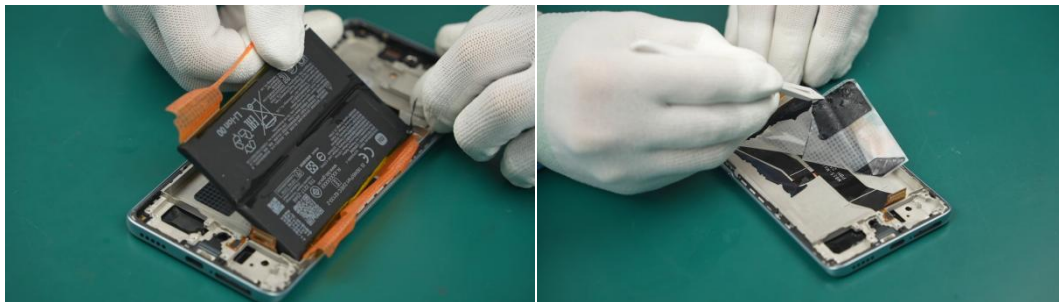
13. Remove the Battery:

(1) Tear off the Easy release adhesive.

Disassembly and Assembly



(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.

14. Remove the FPC Assy:

Remove the FPC Assy from the device.



 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 Vibrator:

Place the Vibrator into the correct position on the device and snap the cable into place.



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

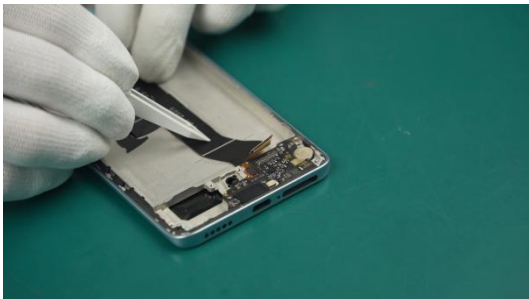
2. Assemble the Sub-Board Assy:

(1) Place the Sub-Board Assy into the correct position and press lightly to ensure it is firmly in place.



 Please check the components underneath when installing the Sub-Board Assy. If the components underneath are not properly installed, the Sub-Board Assy may not be properly installed.

(2) Place the FPC Assy on the device.



 Be careful not to damage the cable when arranging it.

3. Assemble the Fingerprint module:

Place the Fingerprint Module into the correct position and press lightly to ensure it is firmly in place.



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

4. Assemble the Speaker Assy:

Disassembly and Assembly

(1) Install the Coaxial Cable-Black onto the Sub-Board Assy and place it in the cable slot of the device.



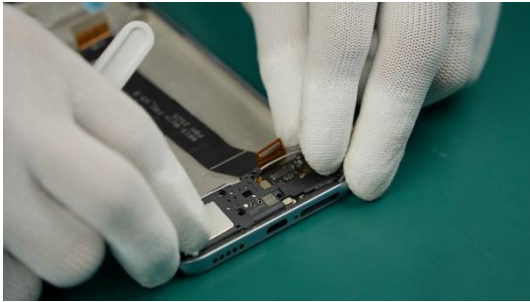
(2) Connect the FPC Assy to the Sub-Board Assy and place it in the correct position of the device. Press gently to ensure it is seated.



-  Please ensure that the Main FPC Assy fits flatly with the device to avoid damage to the Main FPC Assy caused by squeezing other accessories during subsequent assembly.
-  You can press the wiring cable 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 Speaker Assy into the correct position of the device, press gently to ensure it is installed in place.



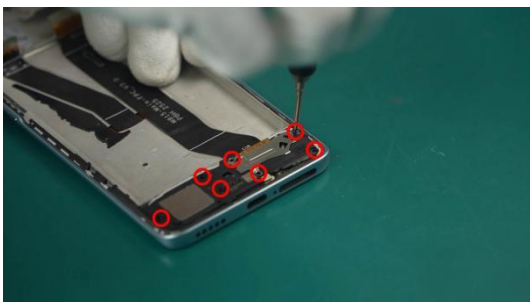
 Please make sure that all the clips are locked into place, otherwise it will affect the subsequent assembly.

(4) Organize the Coaxial Cable-White into the cable slot of the device.



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

(5) Then tighten the screws.

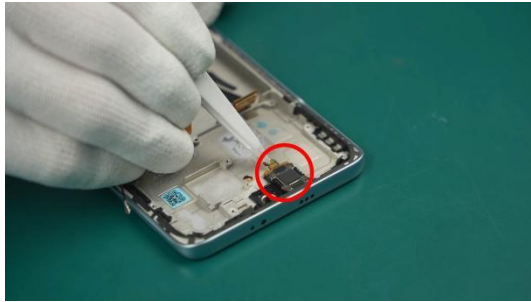


 Please check the components underneath when installing the Sub-Board Assy. If the components underneath are not properly installed, the Sub-Board Assy may not be properly installed.

6. Assemble the Receiver:

Install the Receiver in the correct position of the device and press firmly to ensure it is

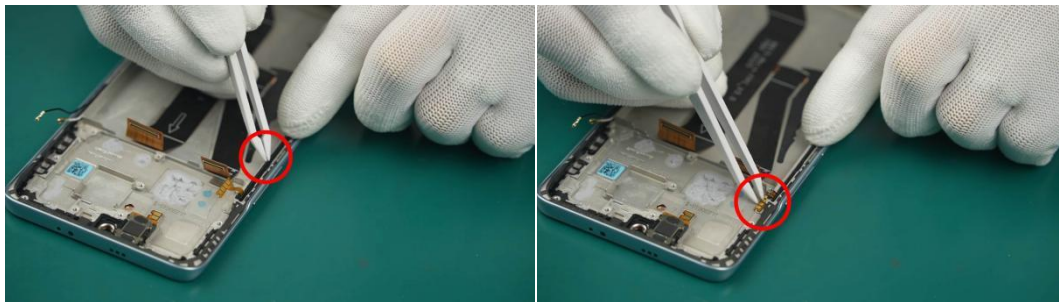
properly seated.



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

7. Assemble the Side Key FPC:

(1) Place the Side Key FPC into the correct position, press to ensure it clicks into place. Tidy up the cable to ensure it is installed in place.



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

8. Assemble the Mainboard Assy:

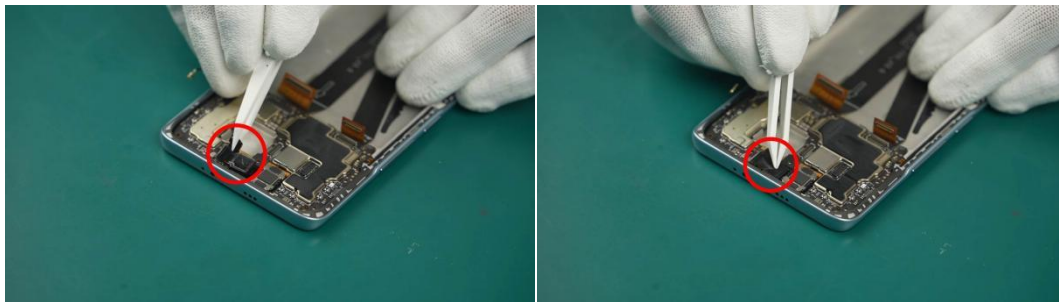
Place the Mainboard Assy into the device, pressing firmly to ensure it is installed in place.



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

9. Assemble the Camera Assy:

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

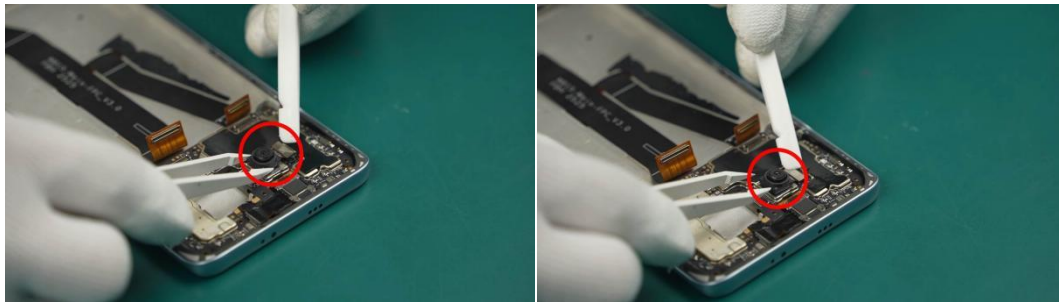


 Please do not use metal tweezers or other hard tools to avoid scratching the device.

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

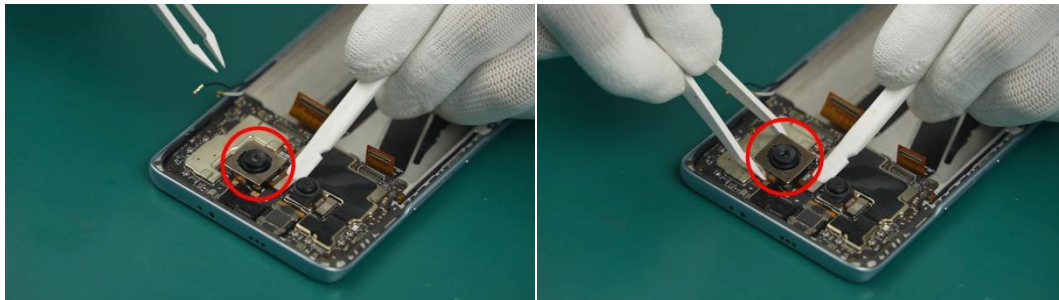
Disassembly and Assembly

- (2) Place the Camera-Rear-Depth in the correct position 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 cable interface with your fingers. If you can clearly feel a "click" sound, it means the interface is connected in place.

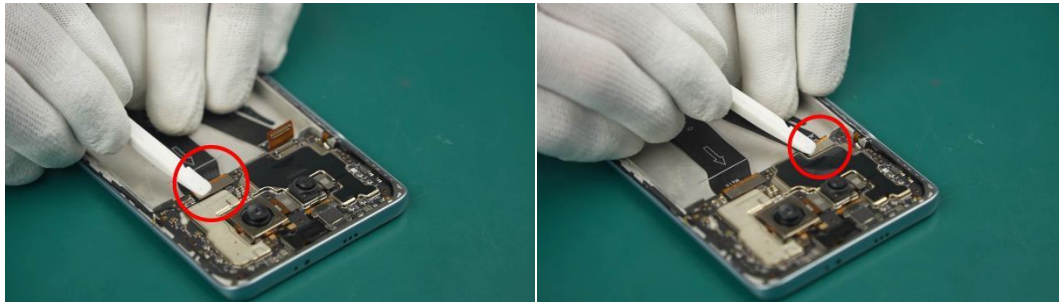
- (3) Place the Camera-Rear-Main in the correct position and connect it to the Mainboard Assy.



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

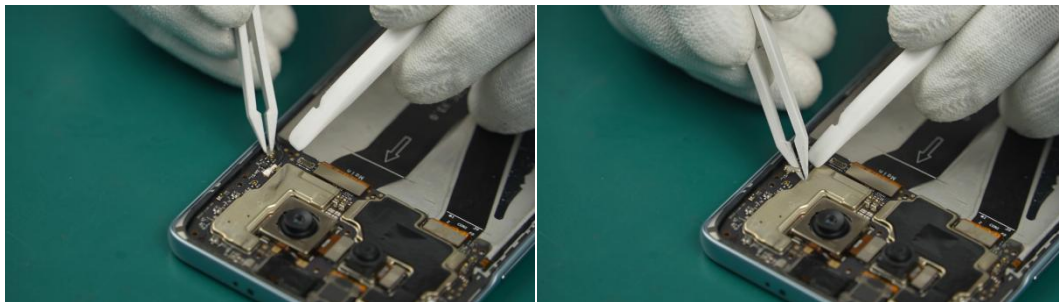
Disassembly and Assembly

- (4) Connect the FPC Assy to the Mainboard Assy and press gently to ensure a secure connection.



-  Please ensure that the Main FPC Assy fits flatly with the device to avoid damage to the Main FPC Assy caused by squeezing other accessories during subsequent assembly.
-  You can press the cable interface with your fingers. If you can clearly feel a "click" sound, it means the interface is connected in place.

- (5) Connect the Coaxial Cable-Black to the Mainboard Assy.



-  Please do not use metal tweezers or other hard tools to avoid scratching the device.
-  You can press the cable interface with your fingers. If you can clearly feel a "click" sound, it means the interface is connected in place.

10. Assemble the Battery:

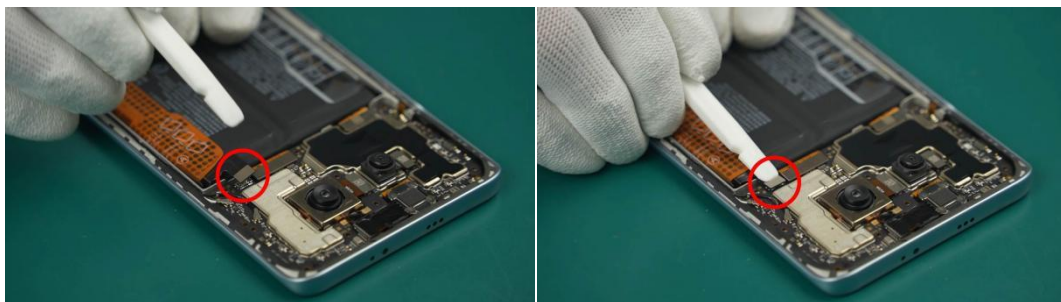
(1) Remove the Easy Release Adhesive protective film from the new Battery.



(2) Align the phone to the correct position, put the Battery in, and press lightly to ensure a firm fit.



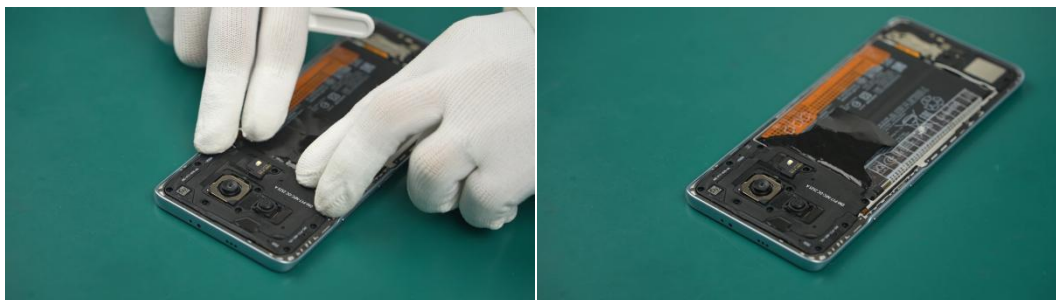
(3) Finally connect the Battery to the Mainboard Assy.



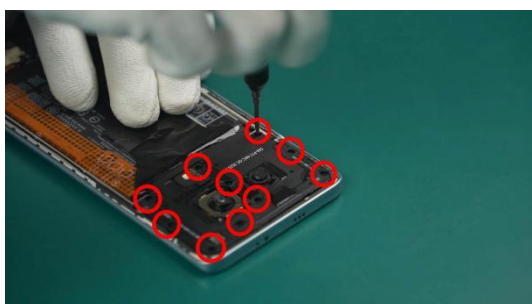
💡 You can press the cable interface with your fingers. If you can clearly feel a "click" sound, it means the interface is connected in place.

11. Assemble the Main board Cover:

(1) Install the Mainboard cover and press to ensure it is in place.



(2) Align the screw holes and tighten the screws.



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

12. Assemble the Battery Cover Assy:

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

(1) Tear off the new Adhesive-Battery Cover protective film, carefully align it with the Battery Cover Assy.



 Please try not to touch the surface of the Adhesive-Battery cover to avoid contamination of the Adhesive-Battery cover and affect the adhesion effect.

 When assembling, tear off half of the protective film first, hold the part that has not been torn off from the protective film, align it with the device, fit it in place, then tear off the protective film completely.

(2) Press to ensure that the Adhesive-Battery Cover and Battery Cover fit accurately.



Disassembly and Assembly

- (3) Tear off the protective film on the other side of the Adhesive-Battery Cover, install the Battery Cover, and press to ensure a firm fit.



-  Before attaching the new Adhesive-Battery Cover, please clean the remaining Adhesive-Battery Cover.

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

- (1) Put the Battery Cover Adhesive into the Adhesive backing fixing tool, and align it with the positioning hole. Tear off the protective film of the Battery Cover Adhesive, and do not touch the adhesive surface.



Disassembly and Assembly

- (2) 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.



- (3) 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.



- (4) Align the Battery Cover Assy with the device, and press gently to install it in place.



13. Assemble the SIM Card Tray:



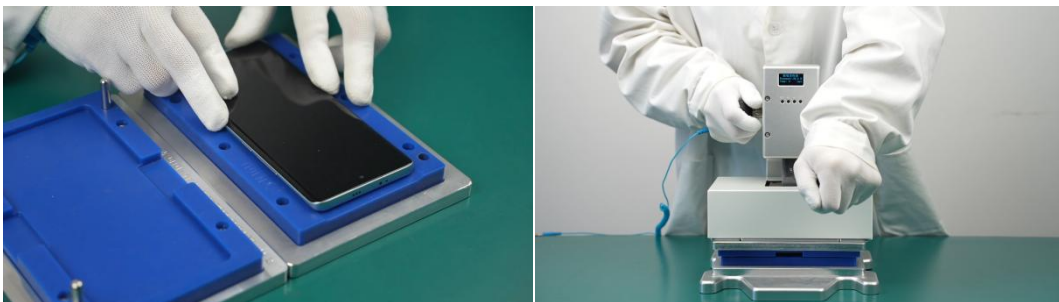
 Please do not use hard tools to install the SIM card tray to avoid scratching the device.

14. 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.

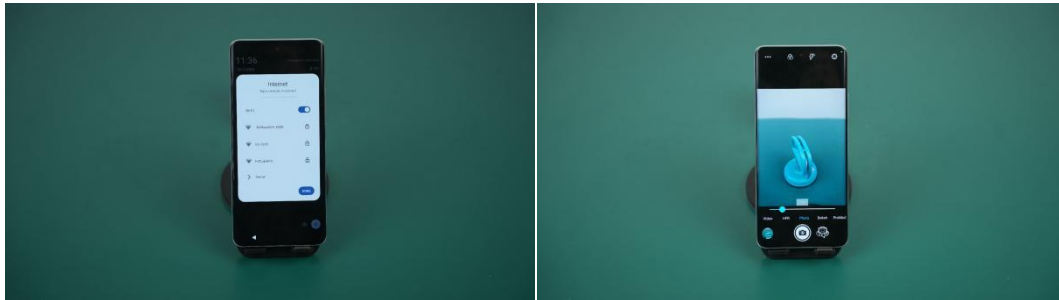


15. Test Phone Functions:

(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.

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