

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.

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

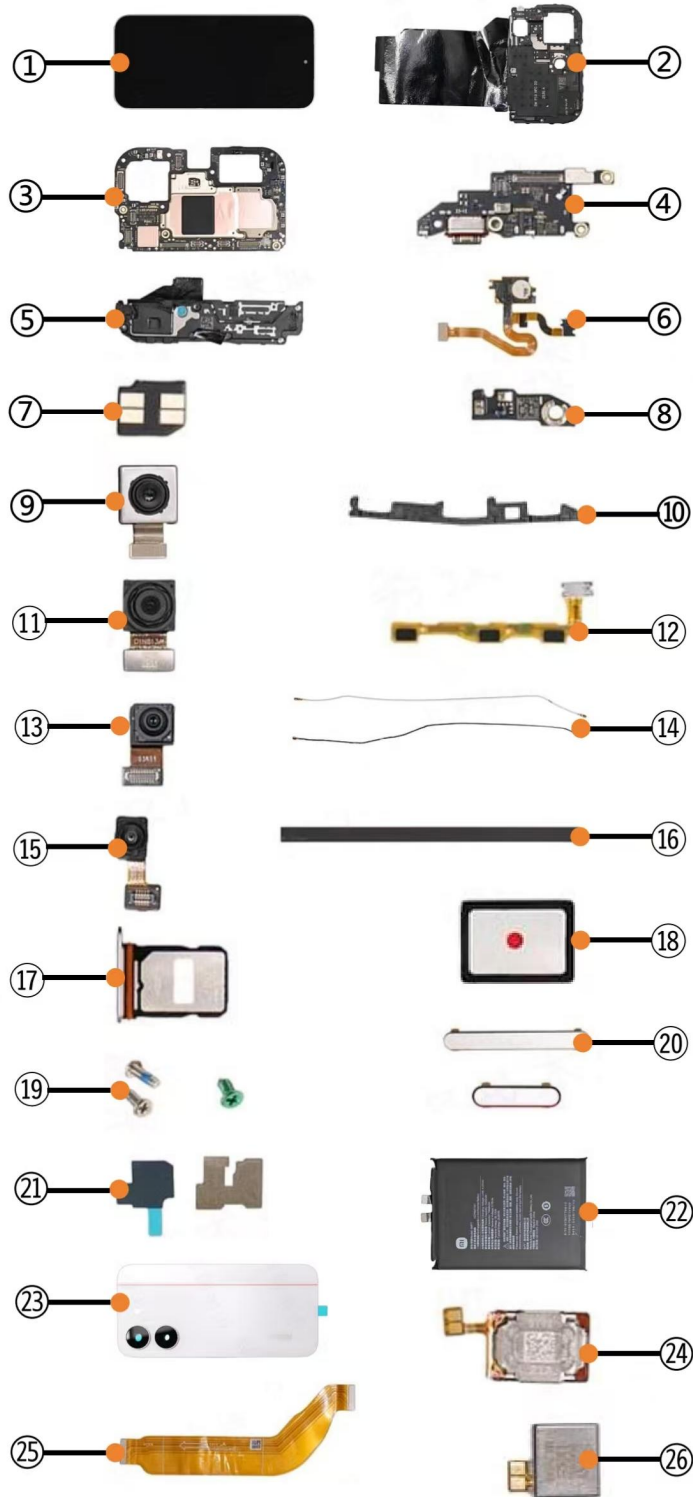
You can check system updates by clicking on the system version number in the phone settings. If the system needs to be upgraded, you can click on the details to view the update log to understand the details of the upgrade and decide whether to update the system version based on your actual situation.

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 (Required for this disassembly and assembly)
















List

Serial number	Name
1	Front Cover Display Module
2	Antenna Bracket
3	Mainboard
4	Sub-Board Cover Assembly
5	Speaker Assembly
6	Flashlight FPC
7	Light Sensor Board
8	Antenna Sub-board
9	Rear Main Camera
10	Side Button Bracket
11	Wide-angle lens
12	Side Button FPC
13	Front Camera
14	Coaxial Cable
15	Fingerprint Connector
16	Middle Frame Coaxial Cable Mylar
17	SIM Card Tray
18	Back Adhesive Of The Earpiece
19	Screw
20	Volume and Power Buttons
21	Conductive Fabric
22	Battery
23	Battery Cover
24	Earpiece
25	Main FPC
26	Vibration Motor

















Tools and Materials

Tools





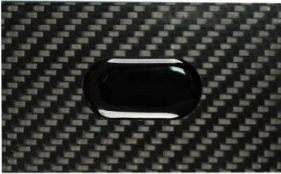




 When disassembling and assembling the phone, please be sure to wear protective equipment to prevent injury.

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).	 




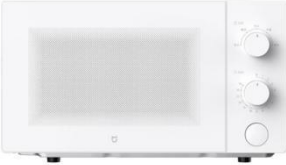



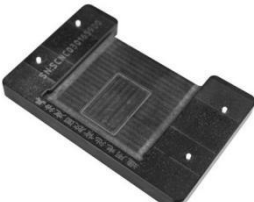



Tool Preparation

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		<p>Used for disassembly and assembly of small parts (necessary tool);</p> <p> Please do not use metal tweezers to avoid scratching the device and damaging it with static electricity.</p>	 
Plastic Pry Tool		<p>Used to remove the battery cover and other parts (necessary tool);</p> <p> Other sturdy sheets can be used instead (plastic sheets);</p> <p> Please do not use metal sheets or blades to avoid damaging the device.</p>	 


Tool Preparation




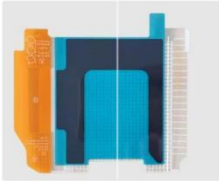





Tool Name	Diagram	Details	Target users
Heating Bag		<p>Used to heat when removing the back cover (necessary tool);</p> <p> Use the tabs as handles when heating to avoid burns.</p>	
Micro-wave Oven		<p>For heating the Heating Bag (necessary tool).</p>	
Adhesive Backing Fixing Tool		<p>Used to position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

Tool Preparation

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

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. Removing SIM Card Tray:



Firmly insert the pin into the device until the SIM card tray pops out, then remove the SIM card tray.



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


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:

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



(5) 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. Removing Battery Cover Assembly:

(1) After heating, use the suction cup to lift the gap and insert the disassembly blade into the gap along the side or bottom of the battery cover.



After heating, use the suction cup to lift the gap and insert the disassembly blade into the gap along the side or bottom of the battery cover



After heating, use the suction cup to lift the gap and insert the disassembly blade into the gap along the side or bottom of the battery cover

💡 If the Suction Cup is not used, the device may move during operation, affecting operation.

📄 Please make sure the suction cup is firmly fixed to avoid affecting the operation.

(2) After heating, use the suction cup to lift the gap and insert the disassembly blade into the gap along the side or bottom of the battery cover.



After disassembling, clean the residual glue on the battery cover plate and the middle frame until the residual glue is completely removed



After disassembling, clean the residual glue on the battery cover plate and the middle frame until the residual glue is completely removed

💡 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.

⚠️ 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. Protecting Camera:

Use a camera cover or protective film to protect the lens from dust and wear.



Use a camera cover or protective film to protect the lens from dust and wear



Use a camera cover or protective film to protect the lens from dust and wear

5. Removing Speaker Assembly on Rear Case and Speaker Screws:

Use a Phillips screwdriver to remove all screws from device.




Note: Immediately remove disassembled screws from inside the phone to avoid short circuits or damage to other internal components

34080001M3Y
Screw-M1.4*02.5*1.4-D-Magnetic

34080001P5H
Screw-M1.4*02.5*1.4-D-Magnetic

34080002P7Y
Mobile-M8_Metal-Fittings_Screw_M1.4x2.6x0.3_Magnetic_Green_118

Use a Phillips screwdriver to remove all screws from the device

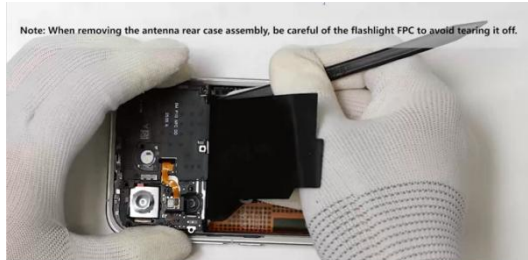
-  Check the number of screws that have been removed and keep them in a safe place to ensure that no unassembled screws are left inside the device during the assembly process.

6. Removing Antenna Bracket Assembly:

(1) Lift the graphite sheet, remove the antenna rear case assembly by lifting it from the bottom of the antenna rear case assembly.



Lift the graphite sheet, remove the antenna rear case assembly by lifting it from the bottom of the antenna rear case assembly



Lift the graphite sheet, remove the antenna rear case assembly by lifting it from the bottom of the antenna rear case assembly

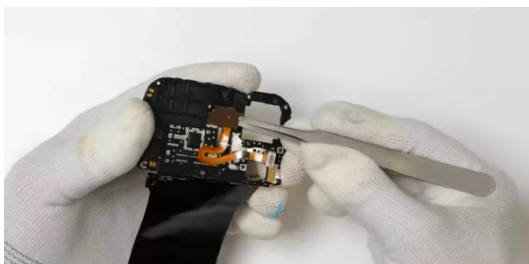
(2) Disconnect the flashlight FPC interface.



Disconnect the flashlight FPC interface

7. Removing Flashlight FPC:

Separate the flashlight FPC assembly from the antenna case assembly.



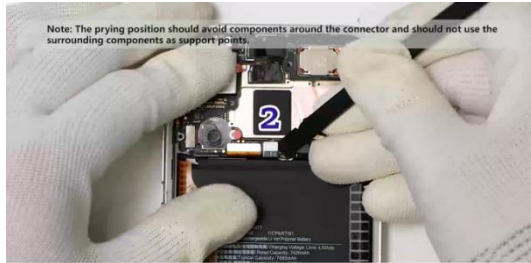
Separate the flashlight FPC assembly from the antenna rear case assembly



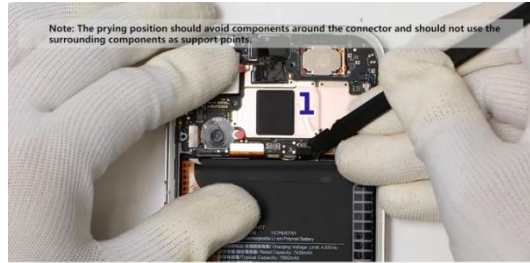
Separate the flashlight FPC assembly from the antenna rear case assembly

8. Disconnecting Battery Connector:

(1) Use anti-static plastic tweezers or pry tools to sequentially disconnect the #2 and #1 battery connectors.



Use anti-static plastic tweezers or pry tools to sequentially disconnect the #2 and #1 battery connectors



Use anti-static plastic tweezers or pry tools to sequentially disconnect the #2 and #1 battery connectors

(2) Disconnecting the display FPC connector and the main FPC connector.



Disconnect the display FPC connector and the main FPC connector



Disconnect the display FPC connector and the main FPC connector

9. Removing Rear Camera:

Use a pry tool to disconnect the connectors of the rear main camera lens and the wide-angle lens, and then remove them.



Use a pry tool to disconnect the connectors of the rear main camera lens and the wide-angle lens, and then remove them.

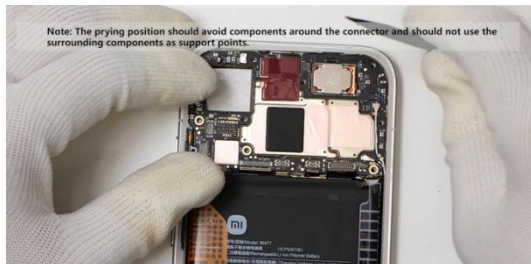


Use a pry tool to disconnect the connectors of the rear main camera lens and the wide-angle lens, and then remove them.

- i • Please disconnect the interface in parallel during operation to avoid tilting and pulling, which may cause damage to the interface.
- Do not touch the camera lens directly during operation to avoid scratching the lens.
- 💡 When disassembling, you can shake it gently to loosen the installation between the camera and the device to facilitate disassembly.
- i Please be careful when removing the Camera Assy:
 - 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 motherboard 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 motherboard, use a Plastic Pry Bar to gently lift it up to avoid breaking the cable.

10. Removing Front Camera:

(1) Remove the graphite copper foil of the front camera.



Remove the graphite copper foil of the front camera

(2) Use a pry tool to disconnect the front camera FPC connector and remove it, then protect the camera.



Use a pry tool to disconnect the front camera FPC connector and remove it, then protect the camera



Use a pry tool to disconnect the front camera FPC connector and remove it, then protect the camera

- Please disconnect the interface in parallel during operation to avoid tilting and pulling, which may cause damage to the interface.
- Do not touch the camera lens directly during operation to avoid scratching the lens.
- 💡 When disassembling, you can shake it gently to loosen the installation between the camera and the device to facilitate disassembly.

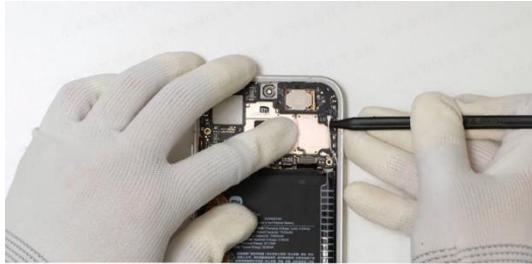
(3) Use a pry tool to disconnect the front camera FPC connector and remove it, then protect the camera.



Use a pry tool to disconnect the front camera FPC connector and remove it, then protect the camera

11. Removing Mainboard Assembly:



(1) Disconnect the back and white axes of the mainboard.



Disconnect the black and white axes of the mainboard



Disconnect the black and white axes of the mainboard

-  Do not pull the cable directly when disconnecting to avoid breaking it.
-  Please tidy up the wiring harness after disconnecting to avoid affecting subsequent operations.


(2) Remove the mainboard at the notch position of the main camera on the mainboard.



Remove the mainboard at the notch position of the main camera on the mainboard



Remove the mainboard at the notch position of the main camera on the mainboard

-  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.

12. Removing Earpiece:

(1) Use tweezers to pry up the earpiece FPC from the earpiece FPC disassembly position.

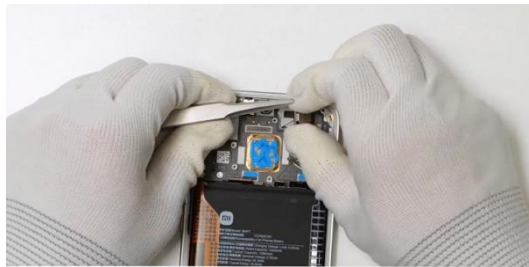


Use tweezers to pry up the earpiece FPC from the earpiece FPC disassembly position


(2) Use tweezers to pry up and remove the earpiece at the disassembly position on the left side of the earpiece; remove the double-sided adhesive tape for earpiece sealing.



Use tweezers to pry up and remove the earpiece at the disassembly position on the left side of the earpiece; remove the double-sided adhesive tape for earpiece sealing



Use tweezers to pry up and remove the earpiece at the disassembly position on the left side of the earpiece; remove the double-sided adhesive tape for earpiece sealing

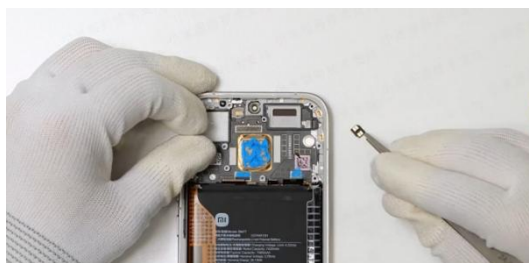
 Please disconnect the interface in parallel during operation to avoid tilting and pulling, which may cause damage to the interface.

13. Removing Light Sensor Board:


Gently pry up and remove the light sensor board.



Gently pry up and remove the light sensor board



Gently pry up and remove the light sensor board

 Please keep small parts properly, as missing parts may cause the device to fail to start up.

14. Removing Speaker Assembly:

Use your hand or a prying tool at disassembly position above the speaker to remove the speaker assembly.



Use your hand or a prying tool at the disassembly position above the speaker to remove the speaker assembly



Use your hand or a prying tool at the disassembly position above the speaker to remove the speaker assembly

15. Removing Antenna Sub-board:

(1) Separate the antenna sub-board from the lower speaker and disconnect the coaxial cable from the sub-board.



Separate the antenna sub-board from the lower speaker and disconnect the coaxial cable from the sub-board




Separate the antenna sub-board from the lower speaker and disconnect the coaxial cable from the sub-board

(2) Separate the antenna sub-board from the lower speaker and disconnect the coaxial cable from the sub-board.



Separate the antenna sub-board from the lower speaker and disconnect the coaxial cable from the sub-board

 Please disconnect the interface in parallel during operation to avoid tilting and pulling, which may cause damage to the interface.

16. Removing The Main FPC Connector Of The Sub-board, Fingerprint Connector And Coaxial Cable:

(1) Disconnect the coaxial connector, fingerprint connector, and main FPC connector.



Disconnect the coaxial connector, fingerprint connector, and main FPC connector





Disconnect the coaxial connector, fingerprint connector, and main FPC connector

(2) Disconnect the coaxial connector, fingerprint connector, and main FPC connector.



Disconnect the coaxial connector, fingerprint connector, and main FPC connector

 Do not pull the Coaxial Cable interface during operation to avoid damaging the Coaxial Cable.

-  • 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.

17. Removing Sub-Board Cover Assembly:

Use a prying tool to gently pry up and remove the sub-board from the sub-board disassembly position.



Use a prying tool to gently pry up and remove the sub-board from the sub-board disassembly position



Use a prying tool to gently pry up and remove the sub-board from the sub-board disassembly position

- Pay attention to the clips around the Speaker Assy during operation. Make sure the clips are completely separated before proceeding to the next step to avoid damaging the Speaker Assy.
- Use moderate force when holding components with tweezers to avoid squeezing small components such as capacitors and resistors.

18. Removing Vibration Motor Assembly:

Use tweezers to pry up the motor from the disassembly position on the side of the motor and remove it.



Use tweezers to pry up the motor from the disassembly position on the side of the motor and remove it



Use tweezers to pry up the motor from the disassembly position on the side of the motor and remove it

- Please keep small parts properly, as missing parts may cause the device to fail to start up.

19. Removing Battery Assembly And The Main FPC:

(1) Peel off the yellow and transparent adhesive tapes on the battery.



Peel off the yellow and transparent adhesive tapes on the battery

(2) Heat the phone screen face down for 5 minutes at a temperature of 60°C.

Heat the phone screen face down for 5 minutes at a temperature of 60°C




(3) Use a suction cup to slowly and uniformly pull the battery vertically upward.




Use a suction cup to slowly and uniformly pull the battery vertically upward



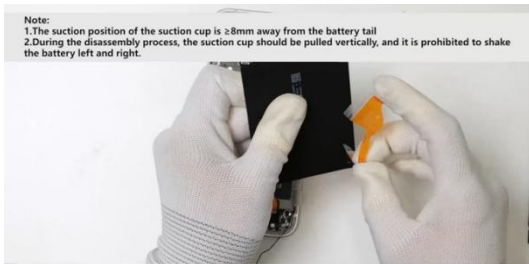
Use a suction cup to slowly and uniformly pull the battery vertically upward

 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.

Disassembly and Assembly

(4) After disassembly, check the appearance of the battery. If there is any damage or deformation, replace it promptly.



After disassembly, check the appearance of the battery.
If there is any damage or deformation, replace it promptly.



After disassembly, check the appearance of the battery.
If there is any damage or deformation, replace it promptly.

(5) Slowly peel off the main FPC, and check if the VC heat sink has any wrinkles or deformations.



Slowly peel off the main FPC, and check if the VC heat sink has any wrinkles or deformations

20. Removing Coaxial Cable:


Remove the middle frame coaxial cable Mylar, and take out the black and white coaxial cables.



Remove the middle frame coaxial cable Mylar, and take out the black and white coaxial cables



Remove the middle frame coaxial cable Mylar, and take out the black and white coaxial cables

 Do not pull the Coaxial Cable interface during operation to avoid damaging the Coaxial Cable.



- 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.

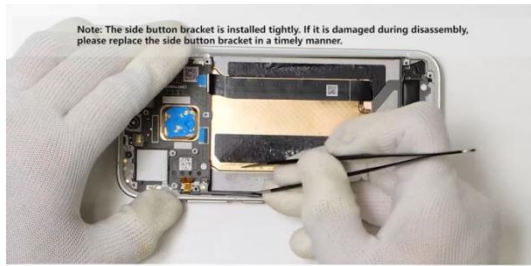
21. Removing Side Button FPC:

(1) Gently pry up the side button FPC gold finger from the disassembly position.



Gently pry up the side button FPC gold finger from the disassembly position

(2) Use tweezers to pry up and remove the side button bracket from the middle frame.

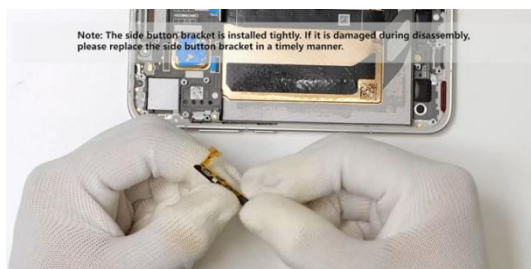


Use tweezers to pry up and remove the side button bracket from the middle frame



Use tweezers to pry up and remove the side button bracket from the middle frame

(3) Separate the side button FPC from the side button bracket.



Separate the side button FPC from the side button bracket

22. Removing Volume and Power Buttons:

(1) Use tweezers to push out the power button and volume button, then remove them.



Use tweezers to push out the power button and volume button, then remove them



Use tweezers to push out the power button and volume button, then remove them


(2) Use tweezers to push out the power button and volume button, then remove them.



Use tweezers to push out the power button and volume button, then remove them



Use tweezers to push out the power button and volume button, then remove them

 Please keep small parts properly, as missing parts may cause the device to fail to start up.

Assembly

 Before reassembly, please confirm the following:

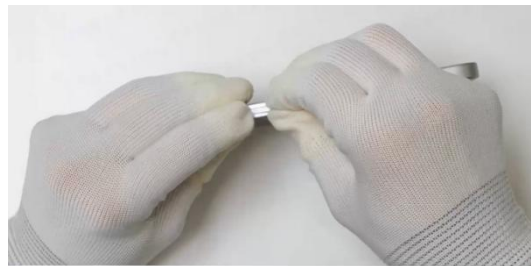
- Thoroughly remove any residual adhesive.
- Prepare the screws and new adhesive required for the device.
- Wear an anti-static wrist strap and connect it to a grounded ESD safe mat.
- Do not leave any unassembled screws inside the device. Leaving screws inside the device may damage internal components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

1. Installing Power and Volume Buttons:

Install the volume button and power button into the button slots on the middle frame.



Install the volume button and power button into the button slots on the middle frame



Install the volume button and power button into the button slots on the middle frame

2. Installing Side Button FPC Assembly:

(1) Combine the side button FPC with the bracket and install it into the middle frame.



Combine the side button FPC with the bracket and install it into the middle frame



Combine the side button FPC with the bracket and install it into the middle frame

(2) Install the FPC gold finger of the side button into the corresponding position of the middle frame.



Install the FPC gold finger of the side button into the corresponding position of the middle frame

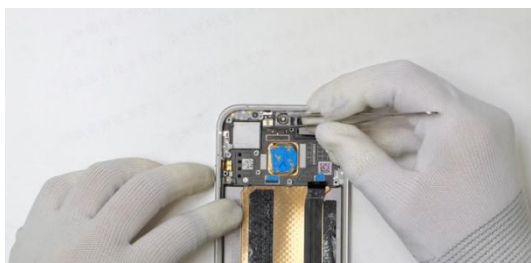


Install the FPC gold finger of the side button into the corresponding position of the middle frame

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

3. Installing Light Sensor Board:

Install the light sensor board into the front case subassembly.



Install the light sensor board into the front case subassembly

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

4. Installing Earpiece:

(1) Paste the back adhesive of the earpiece and remove the release paper.



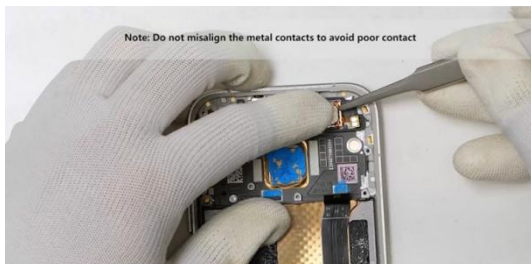
Paste the back adhesive of the earpiece and remove the release paper

(2) Install the earpiece, gently press it to activate the adhesive backing.



Install the earpiece, gently press it to activate the adhesive backing

(3) Arrange and paste the earpiece FPC into the limit slot of the middle frame, ensuring it is flat and without warping.



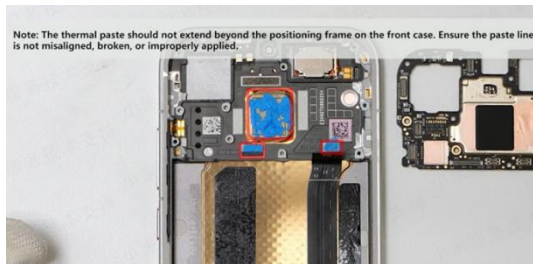
Arrange and paste the earpiece FPC into the limit slot of the middle frame, ensuring it is flat and without warping



Arrange and paste the earpiece FPC into the limit slot of the middle frame, ensuring it is flat and without warping

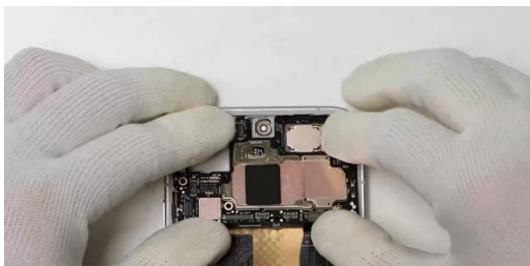
5. Installing Mainboard Assembly:

(1) First, use a dispenser to apply thermal paste on the middle frame.

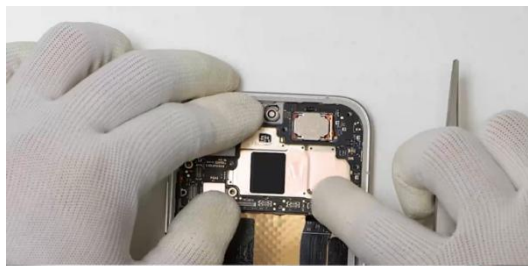


First, use a dispenser to apply thermal paste on the middle frame



(2) Align the mainboard with the upper edge of the mainboard compartment in the middle frame and insert it into place at an angle. Then press it vertically down into the middle frame. Ensure it remains flat without lifting or damage.



Align the mainboard with the upper edge of the mainboard compartment in the middle frame and insert it into place at an angle. Then press it vertically down into the middle frame. Ensure it remains flat without lifting or damage

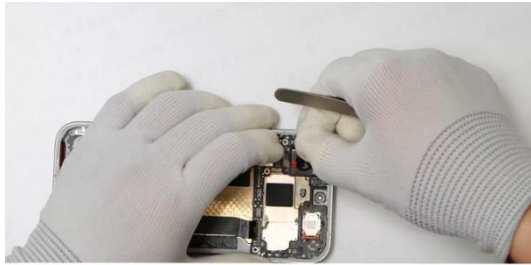


Align the mainboard with the upper edge of the mainboard compartment in the middle frame and insert it into place at an angle. Then press it vertically down into the middle frame. Ensure it remains flat without lifting or damage

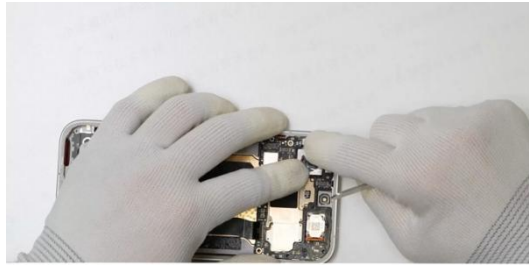
-  During the subsequent assembly process, you need to check whether the Side Key FPC is lifted up to avoid squeezing the harness during assembly.
-  You can press the wiring harness interface with your fingers. If you can clearly feel a "click" sound, it means the interface is connected in place.

6. Installing The Rear Main Camera and Wide-angle Camera:

(1) Install the rear main camera and wide-angle camera to the corresponding positions on the mainboard.



Install the rear main camera and wide-angle camera to the corresponding positions on the mainboard



Install the rear main camera and wide-angle camera to the corresponding positions on the mainboard


(2) Engage the connector interface, ensuring it is fully engaged, flat, and without any lifting.




Engage the connector interface, ensuring it is fully engaged, flat, and without any lifting



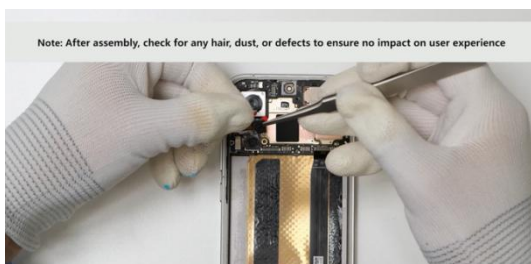
Engage the connector interface, ensuring it is fully engaged, flat, and without any lifting

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

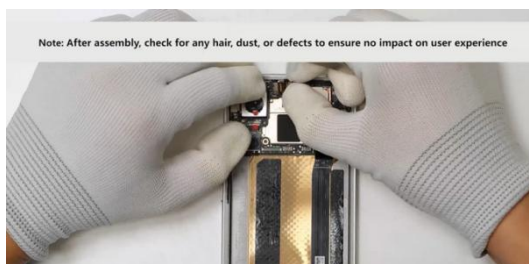
 You can press the wiring harness interface with your fingers. If you can clearly feel a "click" sound, it means the interface is connected in place.

7. Installing Front Camera:

(1) Place the front camera into its position on the front case. Press gently to install it, then secure its connector interface.



Place the front camera into its position on the front case. Press gently to install it, then secure its connector interface



Place the front camera into its position on the front case. Press gently to install it, then secure its connector interface


(2) Apply new conductive fabric to the front camera area and press it.




Apply new conductive fabric to the front camera area and press it



Apply new conductive fabric to the front camera area and press it

 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.

8. Installing Vibration Motor Assembly:

(1) Paste the motor adhesive backing and remove the release paper.



Paste the motor adhesive backing and remove the release paper

(2) Use tweezers to pick up the vibrator, vertically assemble it into the limit slot of the middle frame, and gently press to activate the adhesive.




Use tweezers to pick up the vibrator, vertically assemble it into the limit slot of the middle frame, and gently press to activate the adhesive

9. Installing Sub-board Assembly:

Along the lower edge of the middle frame, tilt and assemble the sub-board onto the middle frame, ensuring that the sub-board is installed flat and without warping.

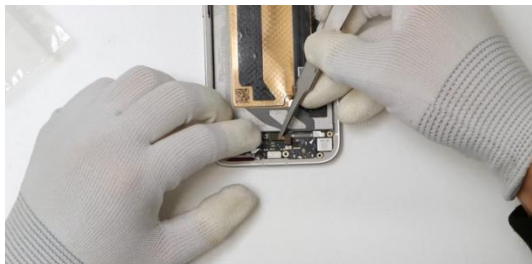


Along the lower edge of the middle frame, tilt and assemble the sub-board onto the middle frame, ensuring that the sub-board is installed flat and without warping

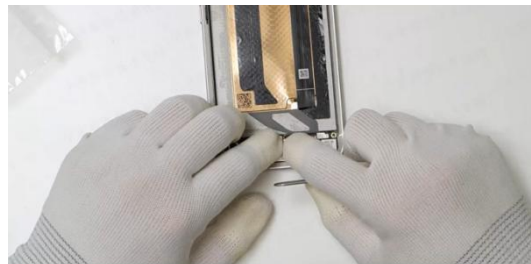
-  • Please check the components underneath when installing the Sub-Board Assy. If the components underneath are not properly installed, the Sub-Board Assy may not be properly installed.
- Please make sure that all the clips are locked into place, otherwise it will affect the subsequent installation.

10. Installing Fingerprint Assembly:


Install the fingerprint module and snap it onto the sub-board fingerprint BTB.



Install the fingerprint module and snap it onto the sub-board fingerprint BTB



Install the fingerprint module and snap it onto the sub-board fingerprint BTB



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

11. Installing White Coaxial Cable:

The white coaxial cable is snapped into the connection base of the sub-board.



The white coaxial cable is snapped into the connection base of the sub-board

-  Be careful not to damage the wiring harness when arranging it.
-  When organizing the wiring harness, start organizing from one end of the Sub Board Assy connection.

12. Installing Main FPC:



The main FPC connector is respectively fastened to the sub-board and the main board, and then pasted securely.



The main FPC connector is respectively fastened to the sub-board and the main board, and then pasted securely



The main FPC connector is respectively fastened to the sub-board and the main board, and then pasted securely

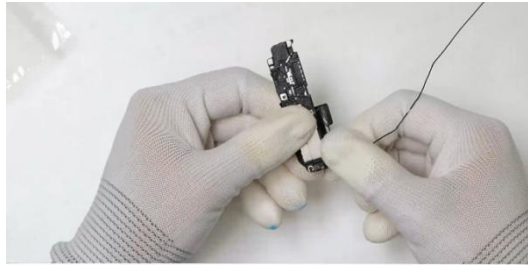
-  Please ensure that the Main FPC Assy fits flatly with the device to avoid damage to the Main FPC Assy caused by squeezing other accessories during subsequent assembly.
-  You can press the wiring harness interface with your fingers. If you can clearly feel a "click" sound, it means the interface is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

13. Installing Antenna Small Board:

(1) Connect the coaxial cable to the antenna sub-board, route the coaxial cable into the cable slot, and then assemble it to the corresponding position of the lower speaker.



Connect the coaxial cable to the antenna sub-board, route the coaxial cable into the cable slot, and then assemble it to the corresponding position of the lower speaker



Connect the coaxial cable to the antenna sub-board, route the coaxial cable into the cable slot, and then assemble it to the corresponding position of the lower speaker

(2) Connect the coaxial cable to the antenna sub-board, route the coaxial cable into the cable slot, and then assemble it to the corresponding position of the lower speaker.



Connect the coaxial cable to the antenna sub-board, route the coaxial cable into the cable slot, and then assemble it to the corresponding position of the lower speaker



Connect the coaxial cable to the antenna sub-board, route the coaxial cable into the cable slot, and then assemble it to the corresponding position of the lower speaker

14. Installing Speaker Assembly:

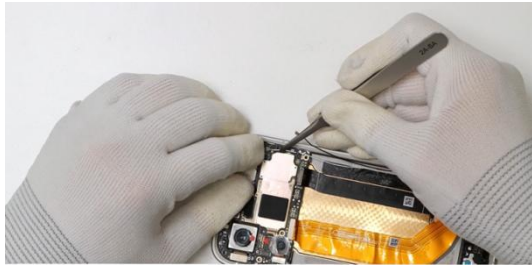
Install the lower speaker assembly along the lower edge of the middle frame without warping or tilting.



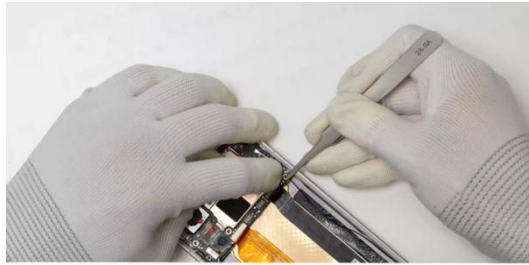
Install the lower speaker assembly along the lower edge of the middle frame without warping or tilting

15. Installing Coaxial Cable:

(1) Connect the main FPC on the sub-board. Stretch the FPC from both sides and lay it flat over the display module on the front case.



Connect the black and white coaxial cables to the mainboard base interface



Connect the black and white coaxial cables to the mainboard base interface


(2) Insert into the middle frame slot and add the middle frame coaxial cable mylar.




Insert into the middle frame slot and add the middle frame coaxial cable mylar



Insert into the middle frame slot and add the middle frame coaxial cable mylar

 Be careful not to damage the wiring harness when arranging it.

 When organizing the wiring harness, start organizing from one end of the Sub Board Assy connection.

16. Installing Battery Assembly:

(1) First snap in the mainboard display FPC connector.



First snap in the mainboard display FPC connector

Disassembly and Assembly

(2) Use a fixture to attach the new battery spare part to the battery, peel off the release paper privately, and install the battery in place.



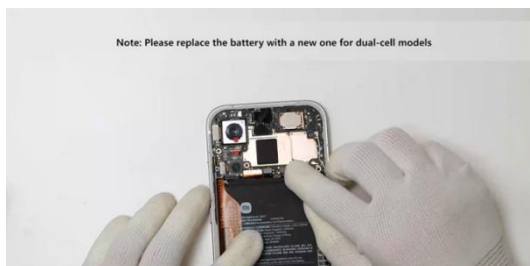
Note: Please replace the battery with a new one for dual-cell models
Use a fixture to attach the new battery spare part to the battery, peel off the release paper privately, and install the battery in place



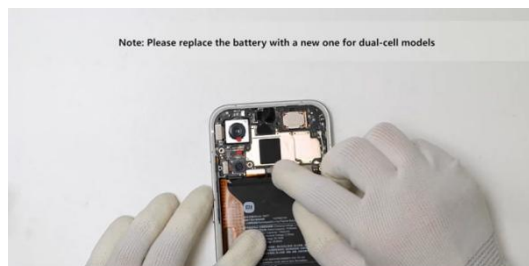
Note: Please replace the battery with a new one for dual-cell models
Use a fixture to attach the new battery spare part to the battery, peel off the release paper privately, and install the battery in place

i Please try not to touch the surface of the Easy Release Adhesive to avoid contamination of the Easy Release Adhesive and affecting the adhesion effect.

(3) Snap in the BTB cable, and confirm that the cable is not lifted (first snap in battery BTB1, then snap in BTB2).



Note: Please replace the battery with a new one for dual-cell models
Snap in the BTB cable, and confirm that the cable is not lifted (first snap in battery BTB1, then snap in BTB2)



Note: Please replace the battery with a new one for dual-cell models
Snap in the BTB cable, and confirm that the cable is not lifted (first snap in battery BTB1, then snap in BTB2)

17. Installing Flashlight Assembly:

Install the flashlight FPC onto the antenna rear case assembly.



Install the flashlight FPC onto the antenna rear case assembly



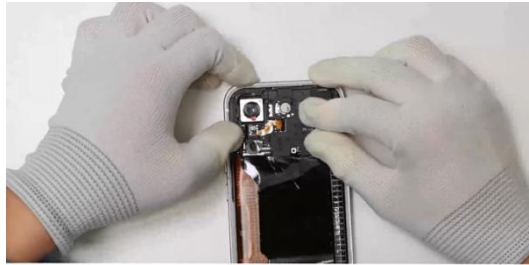
Install the flashlight FPC onto the antenna rear case assembly

18. Installing Antenna Rear Case Assembly:

Snap the flashlight FPC connector into place, and then snap the antenna rear case assembly onto the middle frame along the top of the middle frame.



Snap the flashlight FPC connector into place, and then snap the antenna rear case assembly onto the middle frame along the top of the middle frame



Snap the flashlight FPC connector into place, and then snap the antenna rear case assembly onto the middle frame along the top of the middle frame

19. Installing Screw:

Use a screwdriver to install all screws.



Use a screwdriver to install all screws

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

20. Installing Battery Cover Assembly:

(1) Remove the protective film from the camera.



Remove the protective film from the camera



Remove the protective film from the camera

Disassembly and Assembly



(2) Align one end of the battery cover (with adhesive applied) with the front case assembly.



Align one end of the battery cover (with adhesive applied) with the front case assembly




Align one end of the battery cover (with adhesive applied) with the front case assembly

-  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.

(3) Then press and secure the entire battery cover in place, and press down on all four edges of the battery cover by hand to ensure it is properly installed and aligned.



Then press and secure the entire battery cover in place, and press down on all four edges of the battery cover by hand to ensure it is properly installed and aligned

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

(4) Place it into the battery cover pressing fixture to secure.



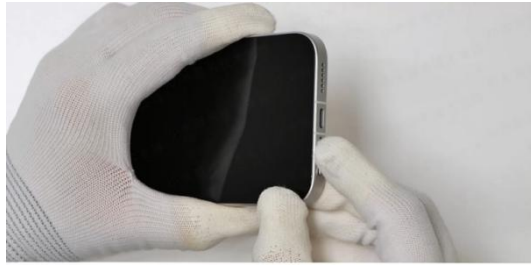
Place it into the battery cover pressing fixture to secure

21. Installing SIM Card Tray:

Ensure the correct orientation of the SIM card tray, Insert vertically into the phone's SIM card tray.



Ensure the correct orientation of the SIM card tray, Insert vertically into the phone's SIM card tray



Ensure the correct orientation of the SIM card tray, Insert vertically into the phone's SIM card tray

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

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

xiaomi

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