

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

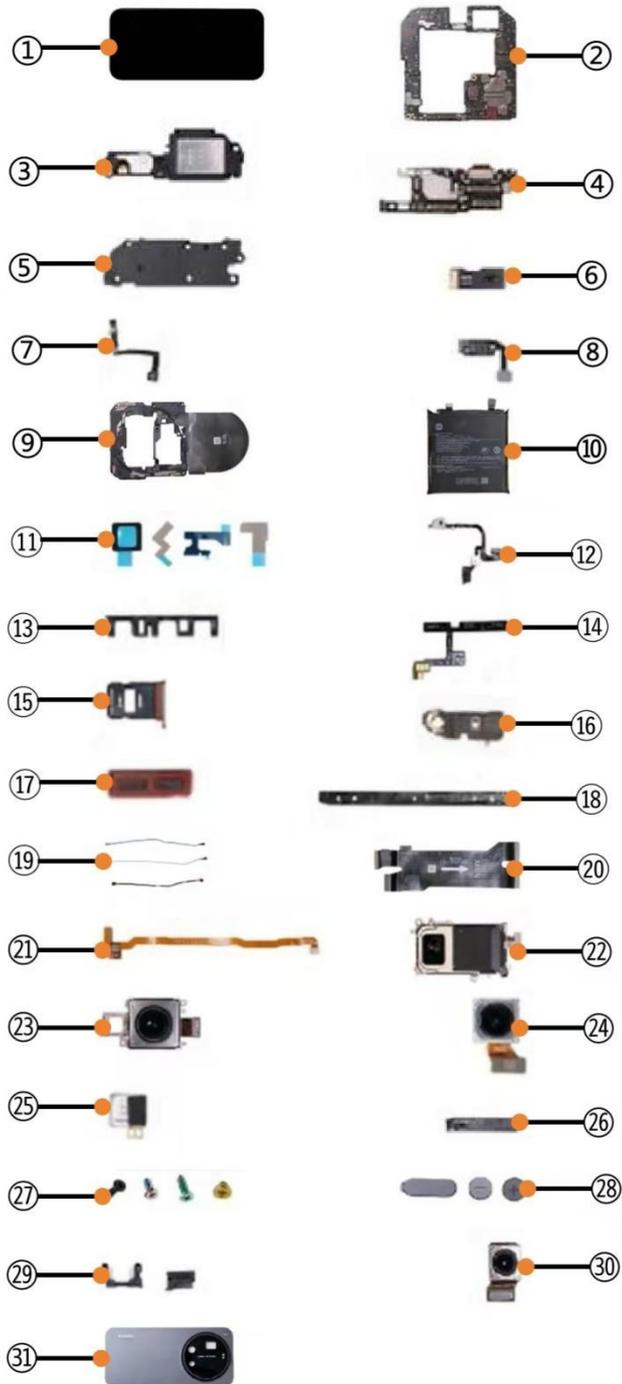
You can check system updates by clicking on the system version number in the phone settings. If the system needs to be upgraded, you can click on the details to view the update log to understand the details of the upgrade and decide whether to update the system version based on your actual situation.

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	Mainboard
3	Speaker
4	Sub-Board
5	Sub-Board Cover
6	Light sensor board
7	Compass FPC
8	OPT_FPC assembly
9	Antenna Bracket Assembly
10	Battery
11	New conductive fabric
12	Flashlight FPC
13	Side button FPC the bracket
14	Side Button FPC
15	SIM Card Tray
16	Antenna board
17	Lower speaker dust filter mesh.
18	Mylar tape
19	Coaxial Cable
20	main FPC
21	MPI_FPC components
22	Periscope camera
23	Wide-angle Camera
24	Ultra-wide-angle Camera
25	vibration motor
26	Battery compartment buffer foam

27	Screws
28	Volume and Power Buttons
29	Pins for the volume and power buttons
30	Front camera
31	Battery cover

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).	 

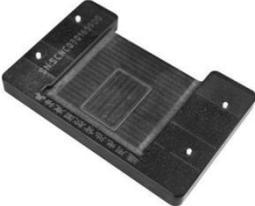
Tool Preparation

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		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. Removing SIM Card Tray:

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



Note: Keep it perpendicular when inserting

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



Note: Keep it perpendicular when inserting

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.

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

Disassembly and Assembly



 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. 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.



💡 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) Slowly pry around the four edges of the battery cover, then remove it completely.



💡 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 Battery Cover and Camera:

Use an anti-static film to protect the battery cover lens, and apply heat-resistant tape or a protective cover to shield the camera lens.



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

Use a Phillips screwdriver to remove all screws from 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. Separating Flashlight FPC from Speaker Assembly on Rear Case:

Use tweezers to lift the flashlight FPC, completely separating it from the rear case speaker assembly.



Note: The FPC material is soft, avoid pulling it with excessive force

Use tweezers to lift the flashlight FPC, completely separating it from the rear case speaker assembly



Note: The FPC material is soft, avoid pulling it with excessive force

Use tweezers to lift the flashlight FPC, completely separating it from the rear case speaker assembly

7. Removing Antenna Bracket Assembly and Flashlight FPC:

(1) Gently pinch the graphite sheets to lift and remove the rear case assembly. Use a pry tool or anti-static tweezers to disconnect the flashlight FPC interface.



Gently pinch the graphite sheet to lift and remove the rear case assembly. Use a pry tool or anti-static tweezers to disconnect the flashlight FPC interface



Gently pinch the graphite sheet to lift and remove the rear case assembly. Use a pry tool or anti-static tweezers to disconnect the flashlight FPC interface

(2) Gently pinch the graphite sheets to lift and remove the rear case assembly. Use a pry tool or anti-static tweezers to disconnect the flashlight FPC interface.



Gently pinch the graphite sheet to lift and remove the rear case assembly. Use a pry tool or anti-static tweezers to disconnect the flashlight FPC interface



8. Disconnecting Battery Connector:

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



Note: Always disconnect the battery connector #2 first, followed by connector 1. The image shows a single-cell battery model. The international version of Xiaomi 17 Ultra features a dual-cell battery

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



Note: Always disconnect the battery connector #2 first, followed by connector 1. The image shows a single-cell battery model. The international version of Xiaomi 17 Ultra features a dual-cell battery

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

9. Removing Rear Camera:

(1) Use a pry tool to lift the FPC interface for the periscope, wide-angle, and ultra-wide-angle cameras, then remove the cameras and separate the wide-angle and ultra-wide-angle lenses.



Note: The conductive fabric and ultra-wide-angle lens adhesive cannot be reused and must be replaced with new ones

Use a pry tool to lift the FPC interfaces for the periscope, wide-angle, and ultra-wide-angle cameras, then remove the cameras and separate the wide-angle and ultra-wide-angle lenses



Note: The conductive fabric and ultra-wide-angle lens adhesive cannot be reused and must be replaced with new ones

Use a pry tool to lift the FPC interfaces for the periscope, wide-angle, and ultra-wide-angle cameras, then remove the cameras and separate the wide-angle and ultra-wide-angle lenses

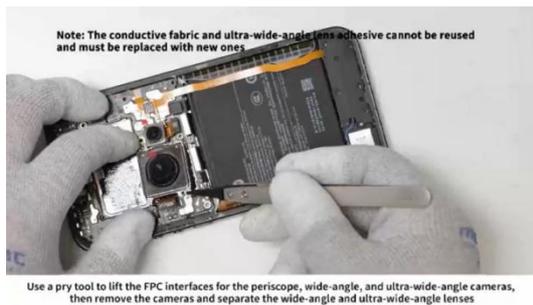
-  • Please disconnect the interface in parallel during operation to avoid tilting and pulling, which may cause damage to the interface.
- Do not touch the camera lens directly during operation to avoid scratching the lens.
-  When disassembling, you can shake it gently to loosen the installation between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

Disassembly and Assembly

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.

(2) Use a pry tool to lift the FPC interface for the periscope, wide-angle, and ultra-wide-angle cameras, then remove the cameras and separate the wide-angle and ultra-wide-angle lenses.



(3) Note: When removing the Leica edition periscope camera, the OPT_FPC assembly must be separated from the camera.



10. Removing Front Camera:

First, remove the front camera's conductive fabric, then use the pry tool to lift and remove the FPC interface of the front camera. Protection is needed for the camera.



Note: The conductive fabric cannot be reused and must be replaced with new ones

First, remove the front camera's conductive fabric, then use the pry tool to lift and remove the FPC interface of the front camera. Protection is needed for the camera



Note: The conductive fabric cannot be reused and must be replaced with new ones

First, remove the front camera's conductive fabric, then use the pry tool to lift and remove the FPC interface of the front camera. Protection is needed for 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.

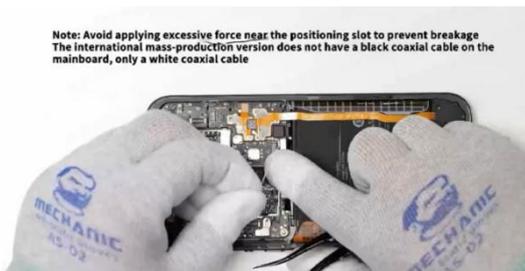
11. Removing Coaxial Cable from Mainboard:

Use tweezers to carefully separate both ends of the coaxial cable, then slowly pull it out from the positioning slot.



Note: Avoid applying excessive force near the positioning slot to prevent breakage
The international mass-production version does not have a black coaxial cable on the mainboard, only a white coaxial cable

Use tweezers to carefully separate both ends of the coaxial cable, then slowly pull it out from the positioning slot



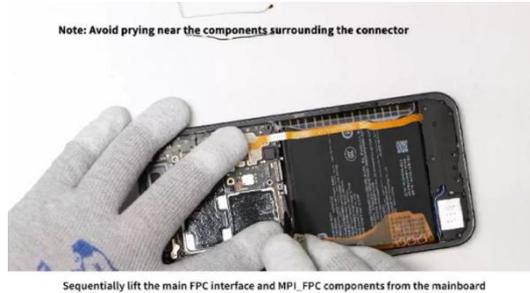
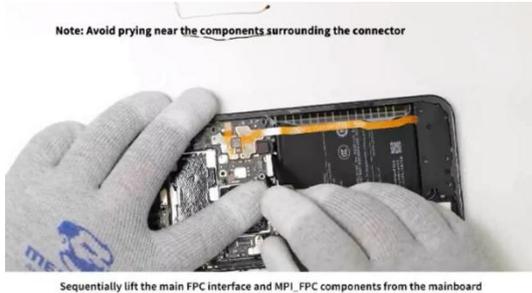
Note: Avoid applying excessive force near the positioning slot to prevent breakage
The international mass-production version does not have a black coaxial cable on the mainboard, only a white coaxial cable

Use tweezers to carefully separate both ends of the coaxial cable, then slowly pull it out from the positioning slot

-  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.

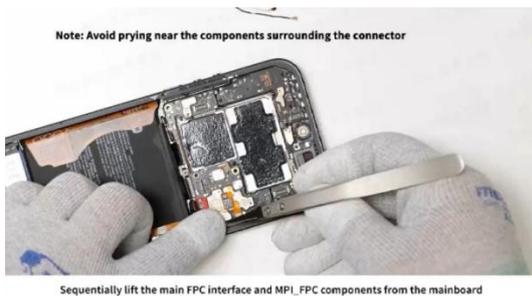
12. Removing Main FPC Interface and MPI_FPC Component Interface from Mainboard:

(1) Sequentially lift the main FPC interface and MPI_FPC components from the mainboard.



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

(2) Sequentially lift the main FPC interface and MPI_FPC components from the mainboard.



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

13. Removing Mainboard Assembly:

Gently pull up the mainboard from the left side of the wide-angle camera, then proceed to remove it from the bottom of the mainboard.

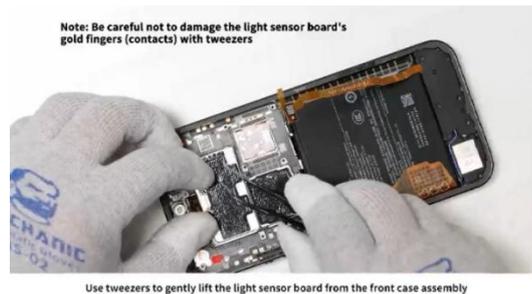


i Carefully lift the Mainboard Assy with tweezers and remove the Mainboard Assy, being careful not to damage the PBA board.

- 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.

14. Removing Light Sensor Board:

Use tweezers or a pry tool to remove the light sensor board.



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

15. Removing Side Button FPC:

(1) Use tweezers to lift the contacts and gently peel off the FPC.



Use tweezers to lift the contacts and gently peel off the FPC



Use tweezers to lift the contacts and gently peel off the FPC

(2) Use tweezers to lift the side button FPC bracket.



Use tweezers to lift the side button FPC bracket, then remove the side button FPC assembly and separate it from the bracket



Use tweezers to lift the side button FPC bracket, then remove the side button FPC assembly and separate it from the bracket

(3) Then remove the side button FPC assembly and separate it from the bracket.



Use tweezers to lift the side button FPC bracket, then remove the side button FPC assembly and separate it from the bracket



Use tweezers to lift the side button FPC bracket, then remove the side button FPC assembly and separate it from the bracket

16. Removing Volume and Power Buttons:

(1) Use tweezers to remove the pins for the volume and power buttons, then push the buttons out from the side.



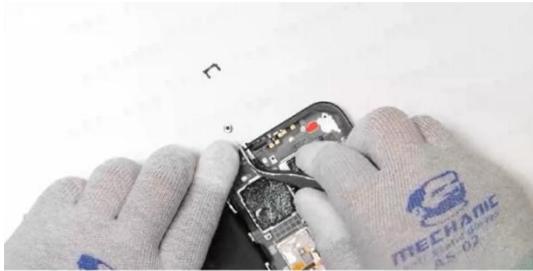
Use tweezers to remove the pins for the volume and power buttons, then push the buttons out from the inside



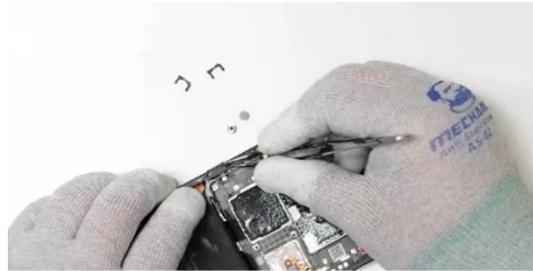
Use tweezers to remove the pins for the volume and power buttons, then push the buttons out from the inside

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

(2) Use tweezers to remove the pins for the volume and power buttons, then push the buttons out from the side.



Use tweezers to remove the pins for the volume and power buttons, then push the buttons out from the inside



Use tweezers to remove the pins for the volume and power buttons, then push the buttons out from the inside

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

17. Removing Sub-Board Cover Assembly:

Use a pry tool to assist in lifting and removing the sub-board cover assembly.



Use a pry tool to assist in lifting and removing the sub-board cover assembly

- i** • 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 Sub-Board Assembly:

(1) Separating Main FPC, Compass_FPC Component, Display FPC, and Blue Coaxial Cable Interface Sub-Board.



Use a pry tool to separate the main FPC, Compass_FPC component, Display FPC, and blue coaxial cable interface from the sub-board



Use a pry tool to separate the main FPC, Compass_FPC component, Display FPC, and blue coaxial cable interface from the sub-board

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

Disassembly and Assembly

(2) Use a pry tool separate the main FPC, Compass_FPC component, display FPC, and blue coaxial cable interface from the Sub-board.



Use a pry tool to separate the main FPC, Compass_FPC component, display FPC, and blue coaxial cable interface from the sub-board

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

(3) Removing Sub-Board Assembly.



Use a pry tool or anti-static tweezers to remove the sub-board

- i** • 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.

19. Removing Speaker Assembly and Separating Blue Coaxial Cable and Antenna Board:

(1) Use tweezers or a pry tool to gently lift and remove the speaker.

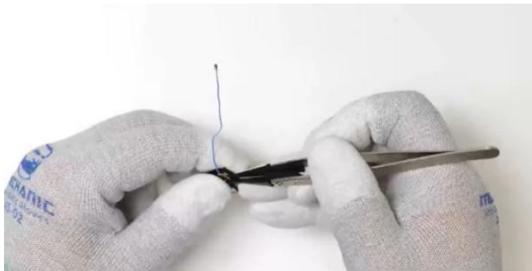


Use tweezers or a pry tool to gently lift and remove the speaker



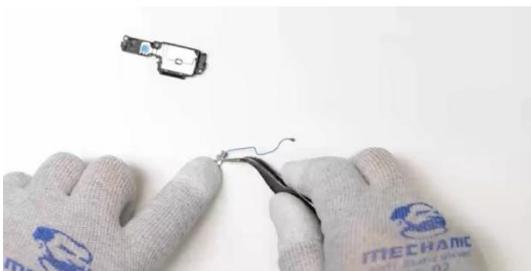
Use tweezers or a pry tool to gently lift and remove the speaker

(2) Use tweezers or a pry tool to gently lift and remove the speaker.



Use tweezers to assist in removing the antenna board assembly

(3) Then separate the blue coaxial cable from the board.



Then separate the blue coaxial cable from the board

 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.

20. Removing Vibration Motor Assembly:

Use metal tweezers to remove the vibration motor.



Use metal tweezers to remove the vibration motor



Use metal tweezers to remove the vibration motor

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

21. Removing Battery Assembly:

(1) Tear off the easy-tear adhesive on the left side of the battery (A/B film) and the white film on the right side.



Tear off the easy-tear adhesive on the left side of the battery (A/B film) and the white film on the right side



Tear off the easy-tear adhesive on the left side of the battery (A/B film) and the white film on the right side

(2) Gently hold the top and bottom A-lugs of the battery with your thumbs and index fingers, and slowly lift the battery.



Gently hold the top and bottom A-lugs of the battery with your thumbs and index fingers, and slowly lift the battery

(3) If you encounter significant resistance, apply light force for 3-5 seconds before continuing to pull. Do not force it.



Notes
1. Check the battery for any damage before removal. Avoid short circuits during removal to prevent fire or loss. Do not use a pry tool to remove the battery.
2. When removing easy-tear adhesive, use fingers to press the VC liquid cooling radiator position to avoid deforming the radiator

If you encounter significant resistance, apply light force for 3-5 seconds before continue to pull. Do not force it



Notes
1. Check the battery for any damage before removal. Avoid short circuits during removal to prevent fire or loss. Do not use a pry tool to remove the battery.
2. When removing easy-tear adhesive, use fingers to press the VC liquid cooling radiator position to avoid deforming the radiator

If you encounter significant resistance, apply light force for 3-5 seconds before continue to pull. Do not force it

 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.

22. Removing Battery Compartment Bottom Foam and Main FPC

Component:

Remove the foam pad at the bottom of the battery compartment. Gently remove the main FPC by hand.



Remove the foam pad at the bottom of the battery compartment.
Gently remove the main FPC by hand



Remove the foam pad at the bottom of the battery compartment.
Gently remove the main FPC by hand

23. Removing Lower Speaker Dust Filter Mesh:

Use tweezers to remove the lower speaker dust filter mesh.



24. Removing Compass_FPC Component:

(1) Peel off the Mylar tape from the side of the middle frame. Use tweezers to remove the Compass FPC assembly.



(2) Peel off the Mylar tape from the side of the middle frame. Use tweezers to remove the Compass FPC assembly.



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 Compass_FPC Component:

Install the Compass_FPC assembly into place. Apply the Mylar tape onto the middle frame.



Install the Compass_FPC assembly into place.
Apply the Mylar tape onto the middle frame



Install the Compass_FPC assembly into place.
Apply the Mylar tape onto the middle frame

2. Installing Lower Speaker Dust Filter Mesh:

Install the lower speaker dust filter mesh into place and press with your fingertip to activate the adhesive.



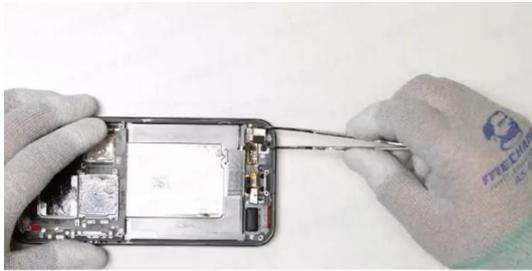
Install the lower speaker dust filter mesh into place
and press with your fingertip to activate the adhesive



Install the lower speaker dust filter mesh into place
and press with your fingertip to activate the adhesive

3. Installing Vibration Motor:

Place the vibration motor vertically into its positioning slot on the middle frame. Press gently to activate the adhesive.



Place the vibration motor vertically into its positioning slot on the middle frame. Press gently to activate the adhesive



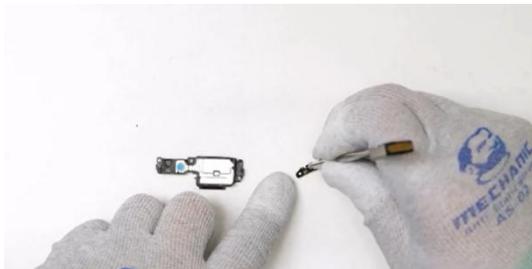
Place the vibration motor vertically into its positioning slot on the middle frame. Press gently to activate the adhesive

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

4. Assembling Antenna Board, Blue Coaxial Cable, and Speaker

Assembly:

(1) Use coaxial cable tweezers to connect the blue coaxial cable terminal to the antenna board. Then assemble the antenna board onto the speaker.



Use coaxial cable tweezers to connect the blue coaxial cable terminal to the antenna board. Then assemble the antenna board onto the speaker



Use coaxial cable tweezers to connect the blue coaxial cable terminal to the antenna board. Then assemble the antenna board onto the speaker

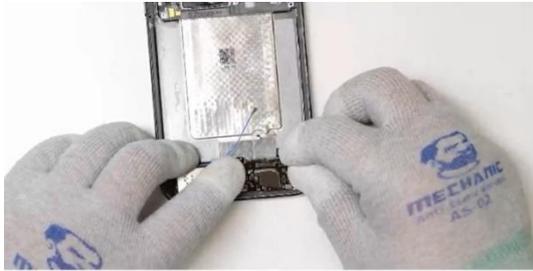
(2) Finally, install the speaker assembly into its positioning slot on the middle frame.



Finally, install the speaker assembly into its positioning slot on the middle frame

5. Installing Sub-Board Assembly and Securing Blue Coaxial Cable:

(1) Align the sub-board with the lower edge of the middle frame and install it at an angle, ensuring it's installed flat without lifting.



Align the sub-board with the lower edge of the middle frame and install it at an angle, ensure it's installed flat without lifting

(2) Secure the Compass_FPC and display FPC connectors.



Secure the Compass_FPC and display FPC connectors

- 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.

(3) Route the blue coaxial cable along its slot. Use coaxial cable tweezers to connect its terminal to the sub-board.



Secure the Compass, FPC and display FPC connectors

💡 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 Power and Volume Buttons:

(1) Install the power and volume buttons into their positions and fit the pins into the middle frame.



Install the power and volume buttons into their positions and fit the pins into the middle frame

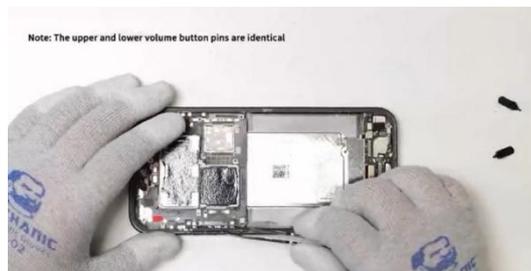


Install the power and volume buttons into their positions and fit the pins into the middle frame

(2) Install the power and volume buttons into their positions and fit the pins into the middle frame.



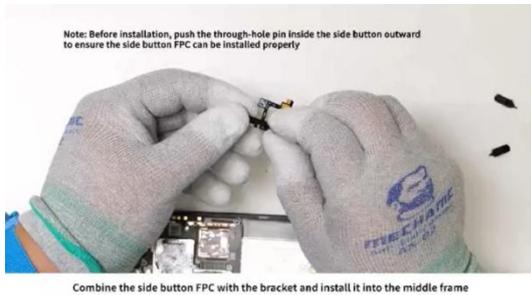
Install the power and volume buttons into their positions and fit the pins into the middle frame



Install the power and volume buttons into their positions and fit the pins into the middle frame

7. Installing Side Button FPC Assembly:

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

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



💡 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.

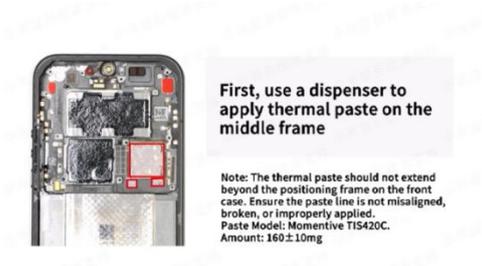
8. Install Light Sensor Board:

Installing the sensor board assembly.



9. Installing Mainboard Assembly:

(1) 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.



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

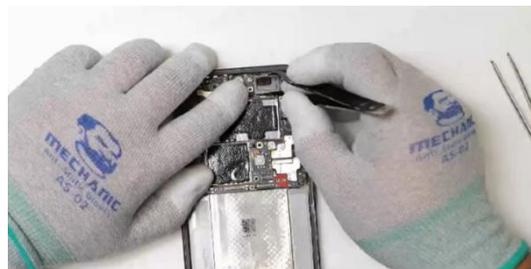
 During the subsequent assembly process, you need to check whether the Side Key FPC is lifted up to avoid squeezing the harness during assembly.

10. Installing Black Mainboard Coaxial Cable:

Take black coaxial cable and use the coaxial cable tweezers to secure interface, routing the cable through the cable slot until it connects to the other side.



Take the black coaxial cable and use the coaxial cable tweezers to secure the interface, routine the cable through the cable slot until it connects to the other side



Take the black coaxial cable and use the coaxial cable tweezers to secure the interface, routine the cable through the cable slot until it connects to the other side

11. Combining the Wide-Angle and Ultra-Wide-Angle and

Ultra-Wide-Angle Lenses:

Apply the new ultra-wide-angle lens adhesive to the bracket. Install the ultra-wide-angle lens into place.



Apply the new ultra-wide-angle lens adhesive to the bracket. Install the ultra-wide-angle lens into place

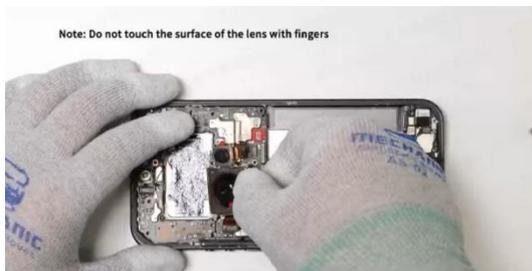


Apply the new ultra-wide-angle lens adhesive to the bracket. Install the ultra-wide-angle lens into place

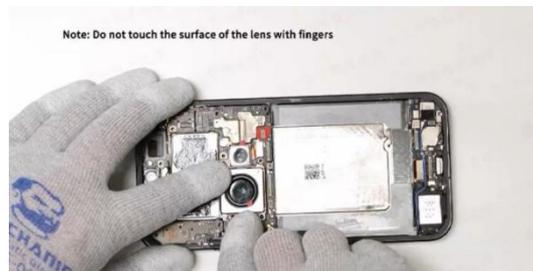
12. Installing Wide-Angle Camera Assembly and Periscope Camera:

(1) Install the wide-angle lens assembly and the periscope camera onto the mainboard.

Secure their BTB connectors.



Install the wide-angle lens assembly and the periscope camera onto the mainboard. Secure their BTB connectors



Install the wide-angle lens assembly and the periscope camera onto the mainboard. Secure their BTB connectors

(2) Install the wide-angle lens assembly and the periscope camera onto the mainboard.

Secure their BTB connectors.



Install the wide-angle lens assembly and the periscope camera onto the mainboard. Secure their BTB connectors



Install the wide-angle lens assembly and the periscope camera onto the mainboard. Secure their BTB connectors

(3) Note: When installing the Leica edition periscope camera, the OPT_FPC assembly must be assembled with the camera.



 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.

13. Installing Front Camera:

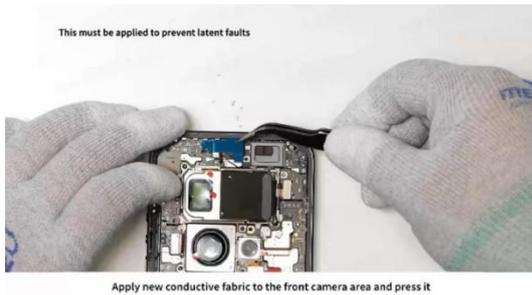
(1) Place the front camera into its position on the front case. Press gently to install it, then secure its connector interface.



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



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



(4) 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.

14. Installing Conductive Fabric for Wide-Angle Camera Lens:

Apply new conductive fabric to the reinforcement plate area of the wide-angle lens and press it.



15. Installing Main FPC:

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.



Note: Ensure the main FPC is installed without wrinkles

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



Note: Ensure the main FPC is installed without wrinkles

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

-  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.

16. Installing Battery Compartment Buffer Foam:

Apply the battery compartment buffer foam to the bottom of the frame.



Apply the battery compartment buffer foam to the bottom of the frame

17. Installing Battery Assembly:

Peel off the release paper and install the battery into position and secure the battery BTB connector.



Peel off the release paper and install the battery into position and secure the battery BTB connector



Peel off the release paper and install the battery into position and secure the battery BTB connector

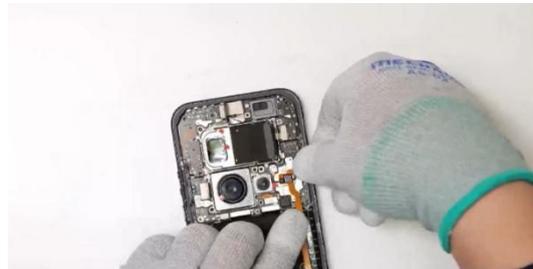
i Please try not to touch the surface of the Easy Release Adhesive to avoid contamination of the Easy Release Adhesive and affecting the adhesion effect.

18. Installing MPI_FPC Component:

Connect the BTB interfaces on both the mainboard and sub-board.



Connect the BTB interfaces on both the mainboard and sub-board



Connect the BTB interfaces on both the mainboard and sub-board

19. Installing White Coaxial Cable:

Take the white coaxial cable and use the coaxial cable tweezers to secure the interface, routing cable through the cable slot until it connects to the other side.



Take the white coaxial cable and use the coaxial cable tweezers to secure the interface, routing the cable through the cable slot until it connects to the other side



Take the white coaxial cable and use the coaxial cable tweezers to secure the interface, routing the cable through the cable slot until it connects to the other side

-  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.

20. Installing Sub-Board Cover Assembly:

Install the Sub-board cover assembly, ensuring its clips engage properly.



Install the Sub-board cover assembly, ensuring its clips engage properly

21. Securing Flashlight FPC Interface:

Connect the flashlight FPC to the mainboard BTB interface base.



Connect the flashlight FPC to the mainboard BTB interface base

22. Installing Speaker Assembly on Rear Case:

Install the rear case speaker assembly, ensuring its clips engage properly.



Install the rear case speaker assembly, ensuring its clips engage properly

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

23. Attaching Flashlight FPC and Replacing Flashlight Graphite:

(1) Apply the new flashlight graphite sheet onto the rear case speaker.



Apply the new flashlight graphite sheet onto the rear case speaker



Apply the new flashlight graphite sheet onto the rear case speaker

(2) Apply the new flashlight graphite sheet onto the rear case speaker.



Apply the new flashlight graphite sheet onto the rear case speaker



Apply the new flashlight graphite sheet onto the rear case speaker

(3) Apply the new flashlight graphite sheet onto the rear case speaker.



Apply the new flashlight graphite sheet onto the rear case speaker

24. Securing Entire Device with Screws:

Use a Phillips screwdriver to install all screws into the device.



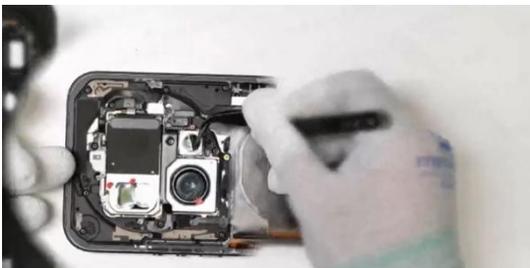
- 3408000193H
Screw-M1.4*4.0*1.3
- 141111000237A
Screw-M1.45L4-Green
- 141110900021A
Screw-M1.2x1.4x0.25, High-Strength Magnet, Phillips, Recessed, Flat Head, Cap Diameter 3.2mm, Silver with Nylon Patch_M1_2x02_2x1.3_Magnetic_Silver_M16
- 3408000195H
Screw-M1.4*02.5*1.4.0-Magnetic

Use a Phillips screwdriver to install all screws into the device

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

25. 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

(2) Remove the protective film from the camera.



Remove the protective film from the camera



Remove the protective film from the camera

(3) 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

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



Place it into the battery cover pressing fixture to secure

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

26. Installing SIM Card Tray:

Ensure the correct orientation of the SIM card tray; otherwise, it could damage the SIM card holder or prevent the tray from being removed.



i 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

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