

# **Repair Manual**

# Table of Contents

## Instructions for Use

- 5 ----- Notes
- 6 ----- Repair Precautions
- 8 ----- ESD (Electrostatic Discharge) Precautions
- 8 ----- OTA Upgrade
- 9 ----- Icon Description

## Materials and List

- 10 ----- Materials (Required for this disassembly and assembly)
- 11 ----- List

## Tool Preparation

- 12 ----- Tools
  
- 17 ----- Consumables (adhesives and other materials)

## Disassembly

- 18 ----- Anti-static preparation
- 19 ----- Remove the SIM card tray
- 20 ----- Heating up the pad
- 22 ----- Disassemble the touchscreen assembly
- 23 ----- Disassembly the battery and screen BTB compression bracket

## Table of Contents

24	-----	Disassemble the battery and screen connectors
24	-----	Disassemble the main FPC mainboard connector
25	-----	Remove the screws from the main board and sub-board
25	-----	Disassemble the main FPC sub-board connector
26	-----	Disassemble the sub-board assembly
27	-----	Remove the battery
29	-----	Disassemble the front and rear camera bracket assemblies
30	-----	Disassemble the front camera
31	-----	Disassemble the rear camera
32	-----	Disassemble the mainboard assembly
33	-----	Disassemble the speaker
34	-----	Disassemble the volume key FPC
35	-----	Disassemble the volume key and power key

## Assembly

36	-----	Install the power button and volume button
37	-----	Install the speaker
38	-----	Install the mainboard assembly
39	-----	Install the front camera
40	-----	Install the power key FPC
41	-----	Install the front and rear camera bracket assembly
41	-----	Insert the rear camera
42	-----	Install the sub-board
43	-----	Install the battery
44	-----	Install the main FPC sub-board connector
45	-----	Install the sub-board compression bracket
45	-----	Install the main FPC BTB compression bracket

## Table of Contents

46 -----	Install screws
46 -----	Install the battery connector
47 -----	Install the back glue of the touch display screen
47 -----	Install the screen FPC connector
48 -----	Install the battery and screen BTB compression bracket
48 -----	Install the touch display assembly
49 -----	Install the SIM card tray

## Calibration and Quality Inspection

50 -----	Calibration
50 -----	Quality Inspection

### **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**

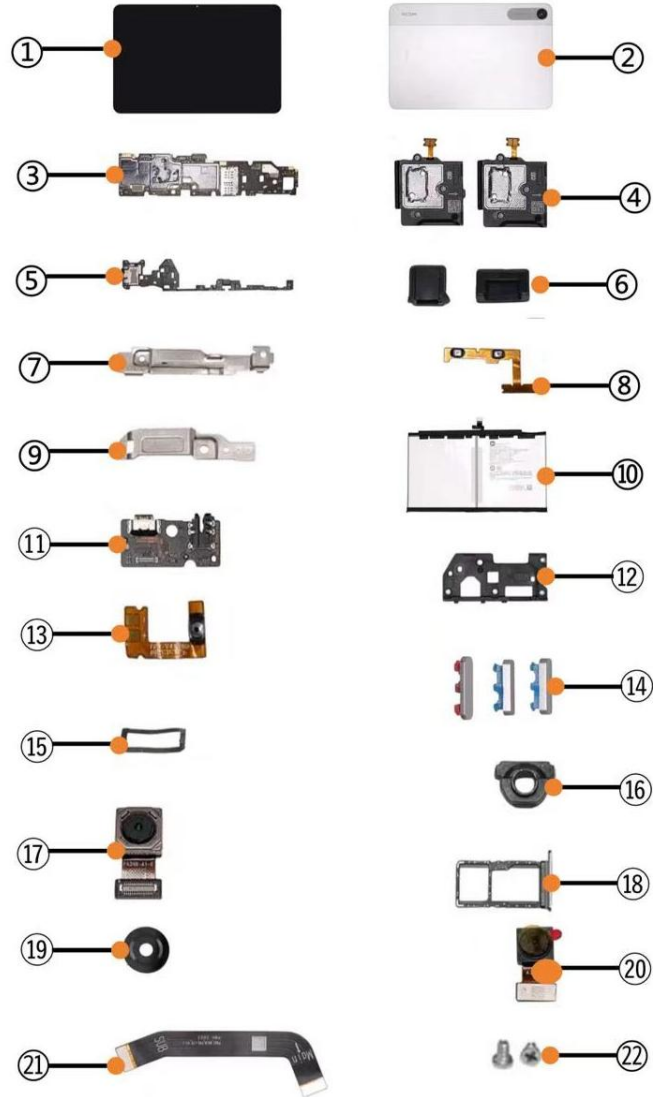
You can check system updates by clicking on the system version number in the phone settings. If the system needs to be upgraded, you can click on the details to view the update log to understand the details of the upgrade and decide whether to update the system version based on your actual situation.

## 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	Touchscreen
2	Battery cover
3	Mainboard
4	Speaker
5	Front and rear camera bracket
6	USB rubber sleeve
7	Battery and screen BTB compression bracket
8	Volume key FPC
9	Holder
10	Battery
11	Sub-board
12	Compression bracket
13	Gold finger FPC
14	Volume key and power key
15	Power button waterproof foam
16	Connector
17	Rear camera
18	SIM card tray
19	Connector
20	Front camera
21	FPC sub-board connector
22	Screw

















## Tools and Materials

### Tools





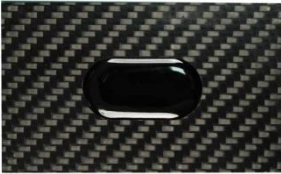




 When disassembling and assembling the phone, please be sure to wear protective equipment to prevent injury.

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).	 




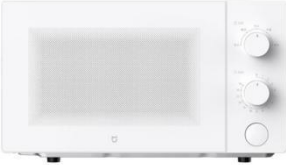



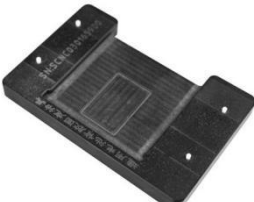



## Tool Preparation

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 pad 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. Anti-static preparation:

Before the disassembly and assembly, ensure that you are wearing anti-static gloves, wristbands and clothing.



Before the disassembly and assembly, ensure that you are wearing anti-static gloves, wristbands and clothing

## 2. Remove the SIM card tray:

(1) Push the opening pin into the body with force.




Push the opening pin into the body with force


(2) Then remove the SIM card tray.




Then remove the SIM card tray.

### 3. Heating up the pad:

 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 Pad 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 Pad 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.

## 4. Disassemble the touchscreen assembly:

(1) After heating, After sucking up the gap with a suction cup.



After heating,



After sucking up the gap with a suction cup,

(2) Insert the disassembly slider from the touch screen insert it into the gap at the bottom of the side of the Use the disassembly slider to touch the display gently slide it along the four sides of the component, and gently pull up the touchscreen.

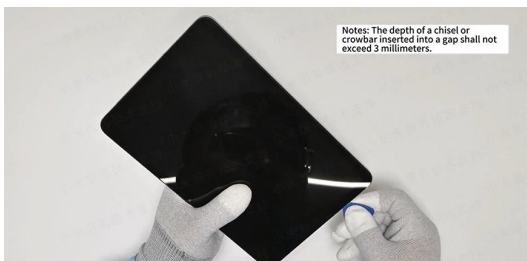


Insert the disassembly slider from the touch screen

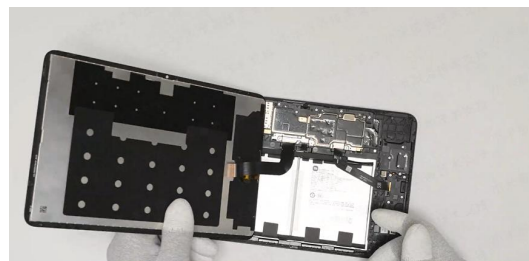


insert it into the gap at the bottom of the side of the

(3) Insert the disassembly slider from the touch screen insert it into the gap at the bottom of the side of the Use the disassembly slider to touch the display gently slide it along the four sides of the component, and gently pull up the touchscreen.



Use the disassembly slider to touch the display



- If the Suction Cup is not used, the device may move during operation, affecting operation.
  - 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.
- i**
- Please make sure the suction cup is firmly fixed to avoid affecting the operation.
  - 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.

### 5. Disassembly the battery and screen BTB compression bracket:

Use a screwdriver to remove two screws. Use tweezers to gently pick up and remove the holder.

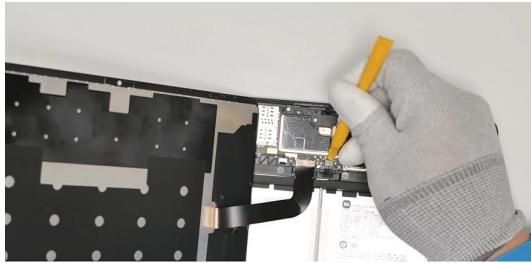


Use a screwdriver to remove two screws.

- i**
- 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. Disassemble the battery and screen connectors:

Use a disassembly stick to gently lift the battery the screen FPC connector interface on the main board and remove the screen.



Use a disassembly stick to gently lift the battery



the screen FPC connector interface on the main board

## 7. Disassemble the main FPC mainboard connector:

(1) Use a screwdriver to unscrew the screw fixing the holder one screw.



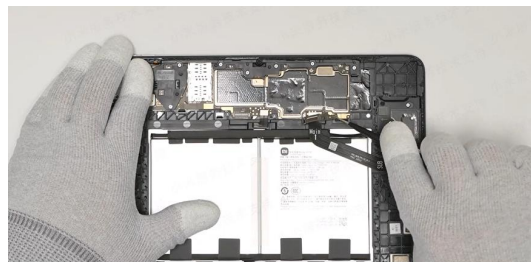
Use a screwdriver to unscrew the screw fixing the holder.

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

(2) Use tweezers to gently pick up and remove the holder.

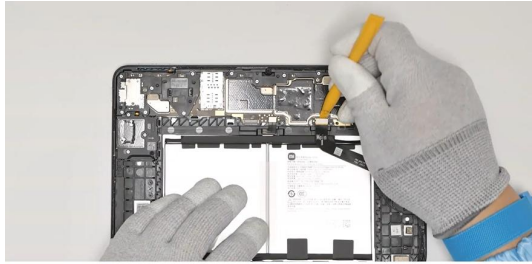


Use tweezers to gently pick up and remove the holder.



Use tweezers to gently pick up and remove the holder.

(3) Then use the disassembly stick to gently lift the main FPC motherboard connector.

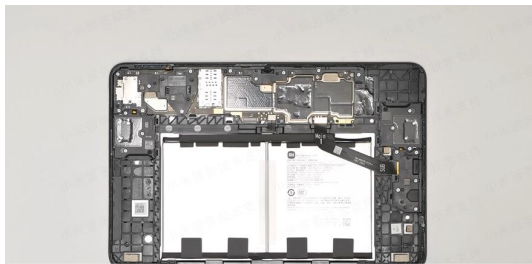


lift the main FPC motherboard connector

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

### 8. Remove the screws from the main board and sub-board:

Use a screwdriver to remove sixteen screws.

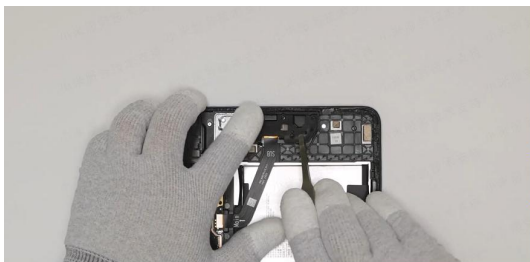


Use a screwdriver to remove sixteen screws.

**i** 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.

### 9. Disassemble the main FPC sub-board connector:

(1) Use tweezers to gently clamp and remove the compression bracket.



Use tweezers to gently clamp and remove the compression bracket.

## Disassembly and Assembly

(2) Use a disassembly stick to gently lift and remove the sub-board connector and remove it.



Use a disassembly stick to gently lift and remove

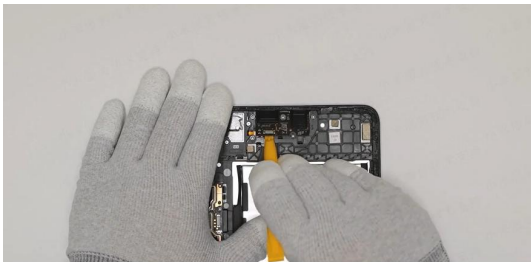


the sub-board connector and remove it.

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

### 10. Disassemble the sub-board assembly:

(1) Use a disassembly stick to gently lift and remove the sub-board and gently separate the USB rubber sleeve.

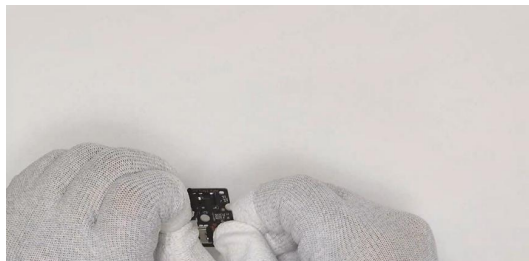


Use a disassembly stick to gently lift and remove the sub-board.

(2) Use a disassembly stick to gently lift and remove the sub-board and gently separate the USB rubber sleeve gently from the sub-board.



and gently separate the USB rubber sleeve



gently from the sub-board.

## 11. Remove the battery:

(1) Use a pry bar and hands to gently tear off the black film. After tearing off the black film, don't pull it directly.

1. Maintain focus throughout the pulling process; do not let go, as this may cause the adhesive to rebound. If it adheres to the silver aluminum-plastic film after rebounding, removal becomes difficult and there is a risk of breakage.  
2. If you experience significant obstruction during disassembly and find it difficult to remove the component even after slowing down, gently shake the device side-to-side to reduce resistance, then pull it out slowly and steadily. Avoid letting go, as the rebounded adhesive may adhere to the battery, making removal even more challenging.



Use a pry bar and hands to gently tear off the black film.

1. Maintain focus throughout the pulling process; do not let go, as this may cause the adhesive to rebound. If it adheres to the silver aluminum-plastic film after rebounding, removal becomes difficult and there is a risk of breakage.  
2. If you experience significant obstruction during disassembly and find it difficult to remove the component even after slowing down, gently shake the device side-to-side to reduce resistance, then pull it out slowly and steadily. Avoid letting go, as the rebounded adhesive may adhere to the battery, making removal even more challenging.



After tearing off the black film, don't pull it directly.

(2) Hold the black film and shake it left and right. Feel no obstruction and pull out a section of white glue. After pulling out the white glue, hold the white glue and pull it out alternately.

1. Maintain focus throughout the pulling process; do not let go, as this may cause the adhesive to rebound. If it adheres to the silver aluminum-plastic film after rebounding, removal becomes difficult and there is a risk of breakage.  
2. If you experience significant obstruction during disassembly and find it difficult to remove the component even after slowing down, gently shake the device side-to-side to reduce resistance, then pull it out slowly and steadily. Avoid letting go, as the rebounded adhesive may adhere to the battery, making removal even more challenging.



Hold the black film and shake it left and right.

1. Maintain focus throughout the pulling process; do not let go, as this may cause the adhesive to rebound. If it adheres to the silver aluminum-plastic film after rebounding, removal becomes difficult and there is a risk of breakage.  
2. If you experience significant obstruction during disassembly and find it difficult to remove the component even after slowing down, gently shake the device side-to-side to reduce resistance, then pull it out slowly and steadily. Avoid letting go, as the rebounded adhesive may adhere to the battery, making removal even more challenging.



Feel no obstruction and pull out a section of white glue.

(3) Change hands every three to five centimeters. Pull the white glue out at a constant speed.

1. Maintain focus throughout the pulling process; do not let go, as this may cause the adhesive to rebound. If it adheres to the silver aluminum-plastic film after rebounding, removal becomes difficult and there is a risk of breakage.  
2. If you experience significant obstruction during disassembly and find it difficult to remove the component even after slowing down, gently shake the device side-to-side to reduce resistance, then pull it out slowly and steadily. Avoid letting go, as the rebounded adhesive may adhere to the battery, making removal even more challenging.



Change hands every three to five centimeters.

1. Maintain focus throughout the pulling process; do not let go, as this may cause the adhesive to rebound. If it adheres to the silver aluminum-plastic film after rebounding, removal becomes difficult and there is a risk of breakage.  
2. If you experience significant obstruction during disassembly and find it difficult to remove the component even after slowing down, gently shake the device side-to-side to reduce resistance, then pull it out slowly and steadily. Avoid letting go, as the rebounded adhesive may adhere to the battery, making removal even more challenging.

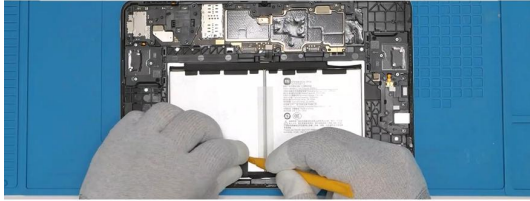


Pull the white glue out at a constant speed.

## Disassembly and Assembly

(4) In the above way, After pulling out all four easy-to-use tapes, gently remove the battery.

1. Maintain focus throughout the pulling process; do not let go, as this may cause the adhesive to rebound. If it adheres to the silver aluminum-plastic film after rebounding, removal becomes difficult and there is a risk of breakage.  
2. If you experience significant obstruction during disassembly and find it difficult to remove the component even after slowing down, gently shake the device side-to-side to reduce resistance, then pull it out slowly and steadily. Avoid letting go, as the rebounded adhesive may adhere to the battery, making removal even more challenging.



1. Maintain focus throughout the pulling process; do not let go, as this may cause the adhesive to rebound. If it adheres to the silver aluminum-plastic film after rebounding, removal becomes difficult and there is a risk of breakage.  
2. If you experience significant obstruction during disassembly and find it difficult to remove the component even after slowing down, gently shake the device side-to-side to reduce resistance, then pull it out slowly and steadily. Avoid letting go, as the rebounded adhesive may adhere to the battery, making removal even more challenging.



(5) In the above way, After pulling out all four easy-to-use tapes, gently remove the battery.

1. Maintain focus throughout the pulling process; do not let go, as this may cause the adhesive to rebound. If it adheres to the silver aluminum-plastic film after rebounding, removal becomes difficult and there is a risk of breakage.  
2. If you experience significant obstruction during disassembly and find it difficult to remove the component even after slowing down, gently shake the device side-to-side to reduce resistance, then pull it out slowly and steadily. Avoid letting go, as the rebounded adhesive may adhere to the battery, making removal even more challenging.



1. Maintain focus throughout the pulling process; do not let go, as this may cause the adhesive to rebound. If it adheres to the silver aluminum-plastic film after rebounding, removal becomes difficult and there is a risk of breakage.  
2. If you experience significant obstruction during disassembly and find it difficult to remove the component even after slowing down, gently shake the device side-to-side to reduce resistance, then pull it out slowly and steadily. Avoid letting go, as the rebounded adhesive may adhere to the battery, making removal even more challenging.



(6) In the above way, After pulling out all four easy-to-use tapes, gently remove the battery.

1. Maintain focus throughout the pulling process; do not let go, as this may cause the adhesive to rebound. If it adheres to the silver aluminum-plastic film after rebounding, removal becomes difficult and there is a risk of breakage.  
2. If you experience significant obstruction during disassembly and find it difficult to remove the component even after slowing down, gently shake the device side-to-side to reduce resistance, then pull it out slowly and steadily. Avoid letting go, as the rebounded adhesive may adhere to the battery, making removal even more challenging.



1. Maintain focus throughout the pulling process; do not let go, as this may cause the adhesive to rebound. If it adheres to the silver aluminum-plastic film after rebounding, removal becomes difficult and there is a risk of breakage.  
2. If you experience significant obstruction during disassembly and find it difficult to remove the component even after slowing down, gently shake the device side-to-side to reduce resistance, then pull it out slowly and steadily. Avoid letting go, as the rebounded adhesive may adhere to the battery, making removal even more challenging.



## 12. Disassemble the front and rear camera bracket assemblies:

(1) Use the disassembly stick at the corresponding position.

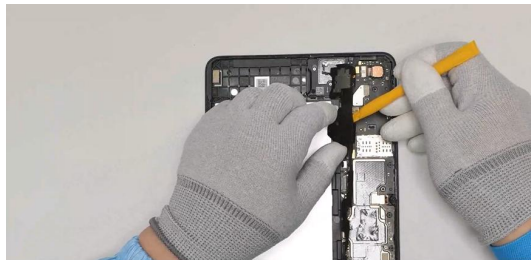


Use the disassembly stick at the corresponding position

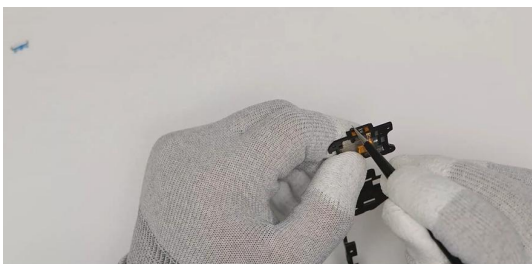
(2) Gently lift and remove the front and rear camera brackets.



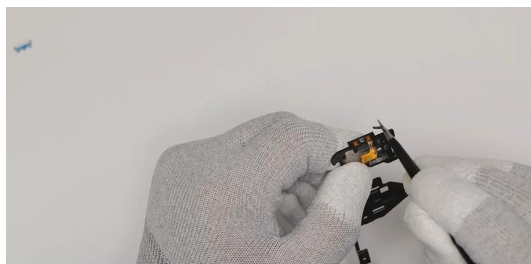
Gently lift and remove the front and rear camera brackets.



(3) Use tweezers to remove the power button waterproof foam.



Use tweezers to remove the power button waterproof foam.



(4) Then remove the power button's gold finger FPC from the bracket assembly limit position.



Then remove the power button's gold finger

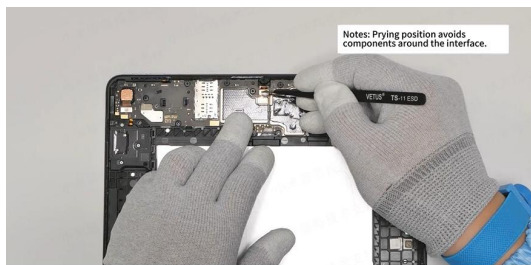


FPC from the bracket assembly limit position.

- 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.

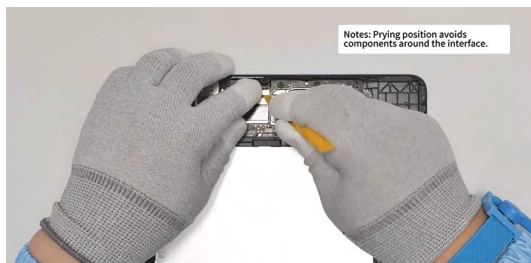
### 13. Disassemble the front camera:

(1) Use tweezers to gently lift and remove the front camera's copper foil.

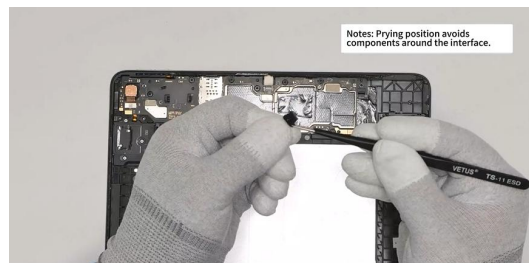


Use tweezers to gently lift and remove the front camera's copper foil.

(2) Use the disassembly stick to separate connector from the motherboard and remove it. Use tweezers to gently pick up and remove the front camera.

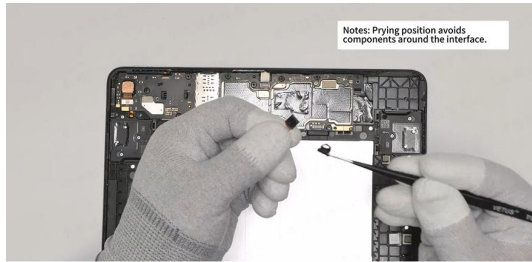


connector from the motherboard and remove it.

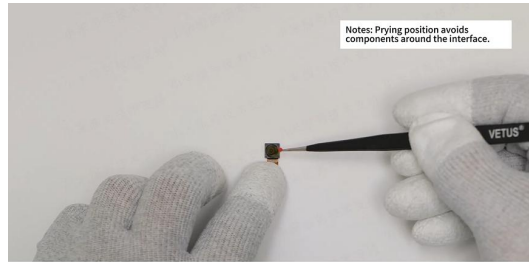


Use tweezers to gently pick up and remove the front camera.

(3) Protect the front camera with protective film.

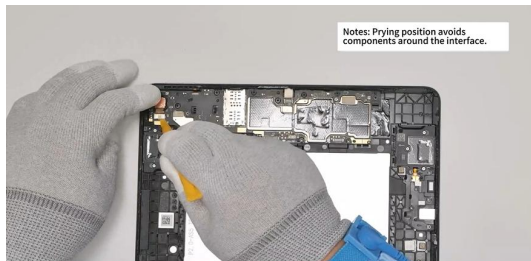


Protect the front camera with protective film.



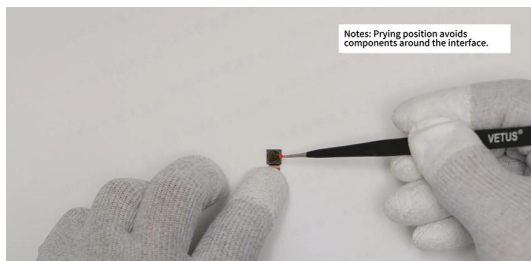
## 14. Disassemble the rear camera:

(1) Use the disassembly stick to separate connector from the motherboard and remove it.






Use the disassembly stick to separate

(2) Protect the rear camera with protective film.



Protect the rear camera with protective film.

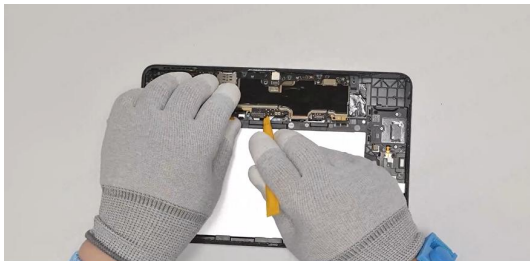
-  • Please disconnect the interface in parallel during operation to avoid tilting and pulling, which may cause damage to the interface.
- Do not touch the camera lens directly during operation to avoid scratching the lens.
-  When disassembling, you can shake it gently to loosen the installation between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

## Disassembly and Assembly

- 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.

### 15. Disassemble the mainboard assembly:


Use the disassembly stick to lift the lower part to lift and remove the motherboard.



Use the disassembly stick to lift the lower part



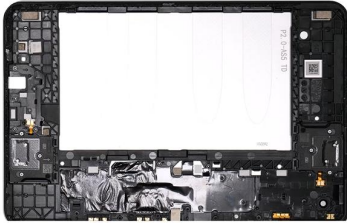
to lift and remove the motherboard.

 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.

## 16. Disassemble the speaker:

(1) Use a screwdriver to remove six screws.



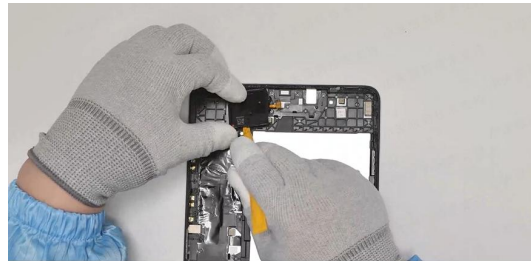
Use a screwdriver to remove six screws.

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

(2) Insert the tweezers into the FPC gold finger of the speaker and gently lift it up. Use the disassembly stick to lift and remove the speaker from the corresponding removal position.

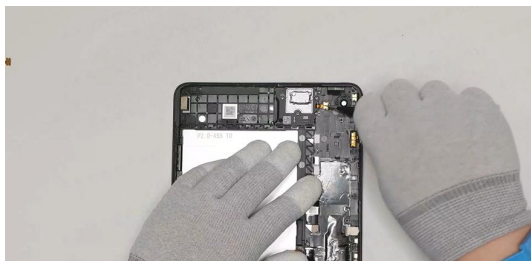


Insert the tweezers into the FPC gold finger of the speaker



Use the disassembly stick to lift and remove

(3) Insert the tweezers into the FPC gold finger of the speaker and gently lift it up. Use the disassembly stick to lift and remove the speaker from the corresponding removal position.

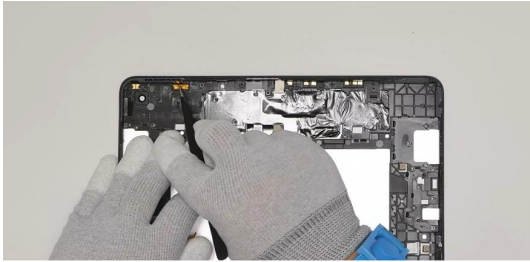


the speaker from the corresponding removal position.



## 17. Disassemble the volume key FPC:

(1) Insert the tweezers into the FPC gold finger of the volume key, and gently lift it up.



Insert the tweezers into the FPC gold finger of the volume key,

(2) Use tweezers to gently tear off the waterproof foam.



Use tweezers to gently tear off the waterproof foam.

(3) Finally, use tweezers to pick up the volume key FPC assembly.



Finally, use tweezers to pick up the volume key FPC assembly.

**18. Disassemble the volume key and power key:**

(1) Use the tweezers to press the volume and power buttons inward. And use the tweezers to remove the power and volume buttons.



Use the tweezers to press the volume and power buttons inward.



Use the tweezers to press the volume and power buttons inward.

(2) Use the tweezers to press the volume and power buttons inward. And use the tweezers to remove the power and volume buttons.

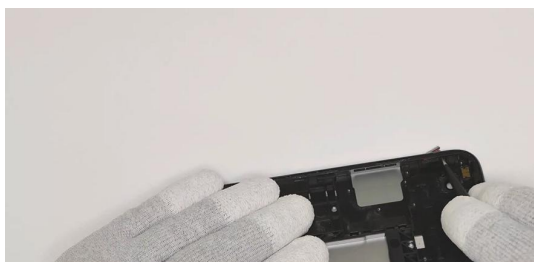


Use the tweezers to press the volume and power buttons inward.



and use the tweezers to remove the power and volume buttons.

(3) Use the tweezers to press the volume and power buttons inward. And use the tweezers to remove the power and volume buttons.



and use the tweezers to remove the power and volume buttons.



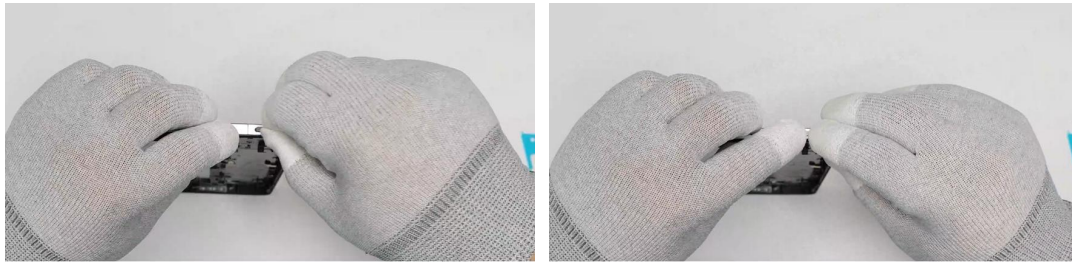
## Assembly

 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. Install the power button and volume button:

(1) Install the power button to the corresponding hole.



Install the power button to the corresponding hole.

(2) Install the volume key FPC to the positioning slot of the battery cover assembly.



Install the volume key FPC to

the positioning slot of the battery cover assembly.

## Disassembly and Assembly

(3) Stick the new volume key waterproof foam. Then snap the gold finger onto the limit of the battery cover.



Stick the new volume key waterproof foam.



Then snap the gold finger onto the limit of the battery cover.

(4) Finally, install the volume key to corresponding battery cover hole.



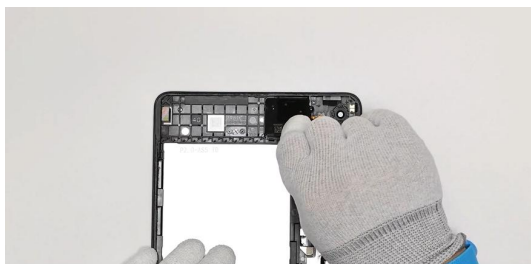
Finally, install the volume key to



corresponding battery cover hole.

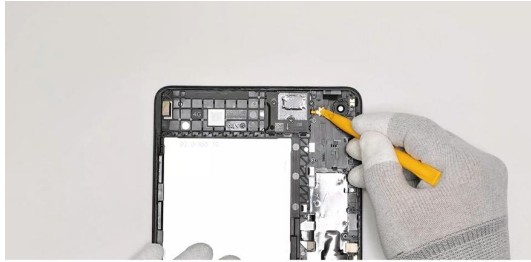
## 2. Install the speaker:

(1) Place the speaker in the corresponding limit of the battery cover.



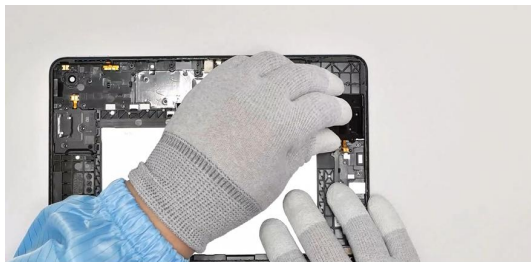
Place the speaker in the corresponding limit of the battery cover.

(2) Snap the speaker's gold fingers into on the limit of the battery cover assembly.




Snap the speaker's gold fingers into

(3) Snap the speaker's gold fingers into on the limit of the battery cover assembly.



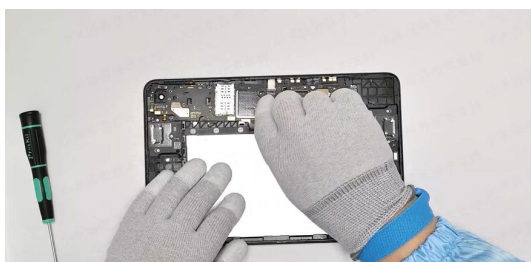
on the limit of the battery cover assembly.



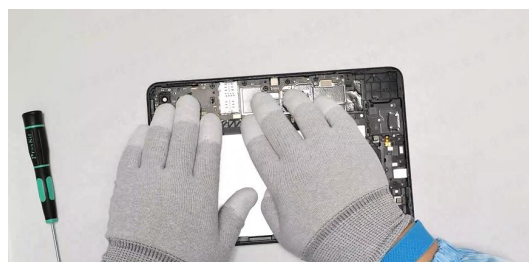
 Please make sure that all the clips are locked into place, otherwise it will affect the subsequent installation.

### 3. Install the mainboard assembly:

Take the top of the motherboard as the reference, Insert the motherboard into the motherboard compartment.



Take the top of the motherboard as the reference,



Insert the motherboard into the motherboard compartment.

## 4. Install the front camera:

(1) Remove the front camera's protective film.



Remove the front camera's protective film.

(2) Install the front camera on the front camera.



Install the front camera on the front camera.


(3) Connect the front camera connector and connect it to the main board connector.




Connect the front camera connector

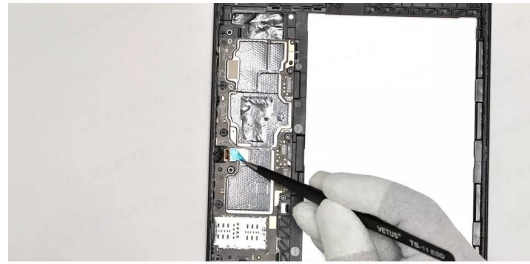
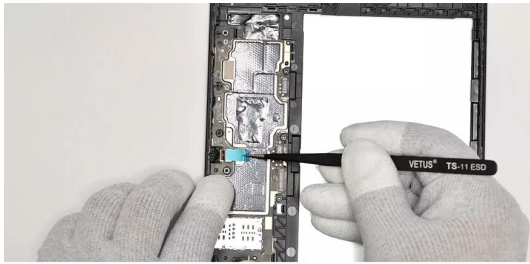


and connect it to the main board connector.

 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.

(4) Stick on the new front camera copper foil.



Stick on the new front camera copper foil.

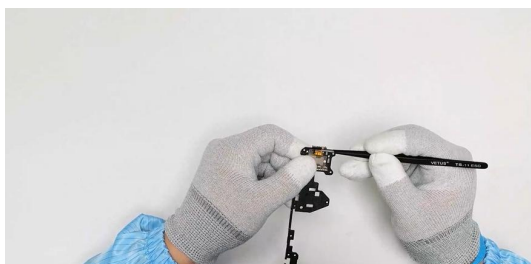
## 5. Install the power key FPC:

(1) Install the power button FPC to the front camera rear camera bracket assembly positioning slot.

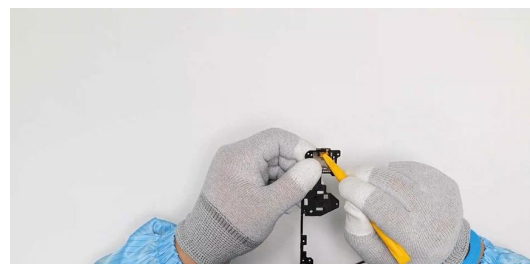


Install the power button FPC to the front camera

(2) Align the power button FPC's gold fingers with the on the limit of the front and rear camera bracket assembly.



Align the power button FPC's gold fingers with the




on the limit of the front and rear camera bracket assembly.

(3) Stick a new power key waterproof foam.



Stick a new power key waterproof foam.

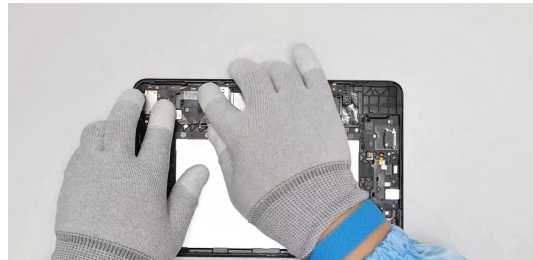
 Please disconnect the interface in parallel during operation to avoid tilting and pulling, which may cause damage to the interface.

### 6. Install the front and rear camera bracket assembly:

Install the bracket assembly to into the positioning slot of the battery cover assembly.



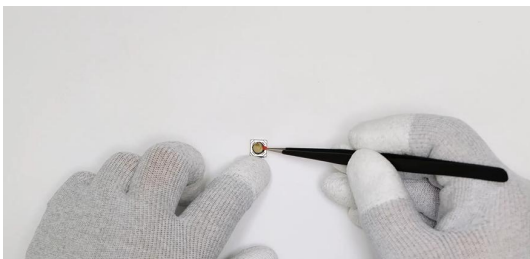
Install the bracket assembly to



into the positioning slot of the battery cover assembly.

### 7. Insert the rear camera:

(1) Remove the rear camera's protective film .



Remove the rear camera's protective film.


(2) Connect the rear camera connector to the main board connection seat.




Connect the rear camera connector



to the main board connection seat.

 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. Install the sub-board:

(1) Install the earphone jack rubber sleeve and USB rubber sleeve to the sub-board assembly in turn.



Install the earphone jack rubber sleeve and USB rubber sleeve



to the sub-board assembly in turn.

(2) Along the lower edge of the battery cover, Assemble the sub-board to the corresponding position of the battery cover.



Along the lower edge of the battery cover,

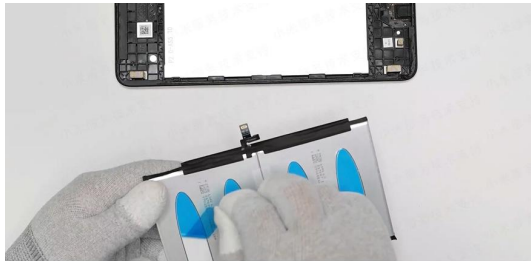
(3) Make sure the sub-board is installed flat and without warping.



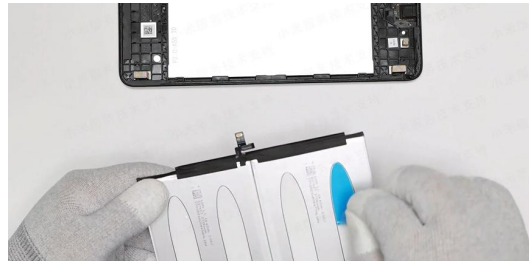
Make sure the sub-board is installed flat and without warping.

### 9. Install the battery:


(1) Insert the new battery into the whole machine with the head.



Insert the new battery into the whole machine with the head.



Insert the new battery into the whole machine with the head.

 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.

(2) Activate the easy-release tape.



Activate the easy-release tape.

(3) Make sure the battery is assembled flat and in place. Gently press the battery.



Make sure the battery is assembled flat and in place.

(4) Make sure the battery and battery cover are firmly attached..



Make sure the battery and battery cover are firmly attached.

### 10. Install the main FPC sub-board connector:

Connect the main FPC connector to the sub-board connector.



Connect the main FPC connector to the sub-board connector.

## 11. Install the sub-board compression bracket:

(1) Fasten the compression bracket to the sub-board.



Fasten the compression bracket to the sub-board.

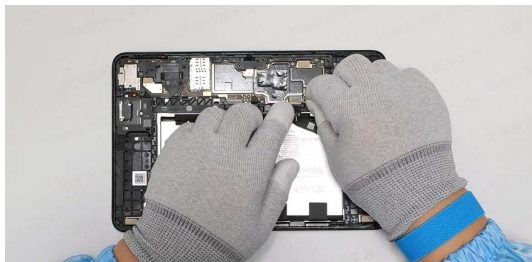
(2) Connect the main FPC main board connector to the main board.



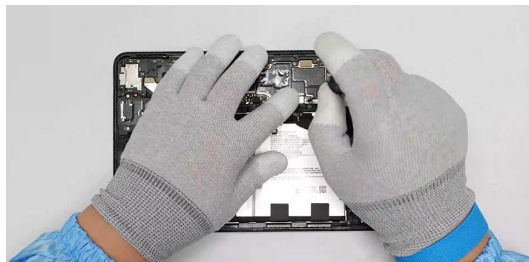
Connect the main FPC main board connector to the main board.

## 12. Install the main FPC BTB compression bracket:

Fasten the compression bracket to the corresponding position and use a screwdriver to install one screw.



Fasten the compression bracket to the corresponding position.




and use a screwdriver to install one screw.

### 13. Install screws:

Use a screwdriver to install the motherboard the sub-board speaker screws, a total of twenty-two.

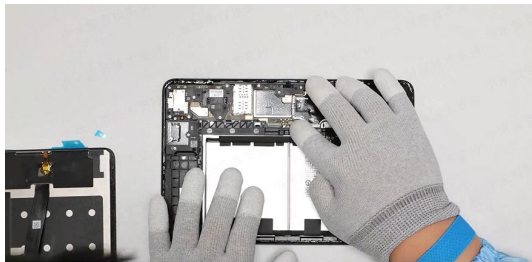


Use a screwdriver to install the motherboard

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

### 14. Install the battery connector:

Connect the battery connector to the motherboard.



Connect the battery connector to the motherboard.

### 15. Install the back glue of the touch display screen:

(1) When installing the touch display screen assembly, remove the residual glue on the display component.



When installing the touch display screen assembly,

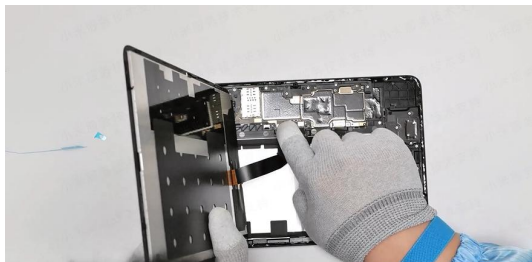
(2) Then stick on the new screen back glue.



Then stick on the new screen back glue.

### 16. Install the screen FPC connector:

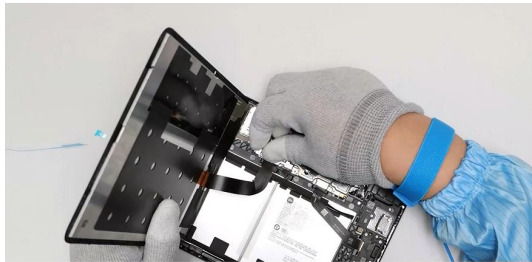
Fasten the screen FPC connector to the main board.



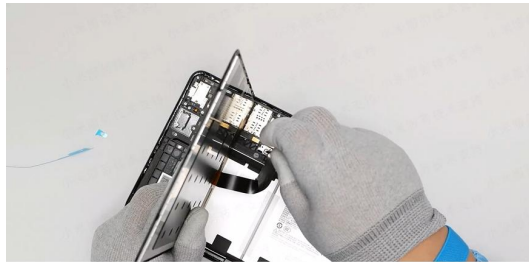
Fasten the screen FPC connector to the main board.

## 17. Install the battery and screen BTB compression bracket:

Fasten the compression bracket to the corresponding limit.



Fasten the compression bracket to the corresponding limit.



and use a screwdriver to install two screws.

## 18. Install the touch display assembly:

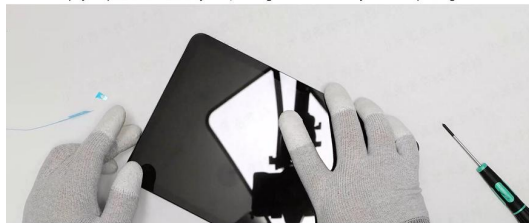
(1) Align the touch screen assembly with the aligned with the end of the battery cover with new glue.

After pressing is completed, inspect the perimeter of the touch display component for any adhesive overflow. If overflow is detected, remove the component and reapply the appropriate adhesive. Carefully examine whether any gaps exist between the touch display component and the battery cover, ensuring the adhesive securely bonds both parts together.



Align the touch screen assembly with the

After pressing is completed, inspect the perimeter of the touch display component for any adhesive overflow. If overflow is detected, remove the component and reapply the appropriate adhesive. Carefully examine whether any gaps exist between the touch display component and the battery cover, ensuring the adhesive securely bonds both parts together.



aligned with the end of the battery cover with new glue.

(2) Then fasten and press them separately. Press the entire touch display assembly and press the four sides of the touch display component.

After pressing is completed, inspect the perimeter of the touch display component for any adhesive overflow. If overflow is detected, remove the component and reapply the appropriate adhesive. Carefully examine whether any gaps exist between the touch display component and the battery cover, ensuring the adhesive securely bonds both parts together.



Press the entire touch display assembly

After pressing is completed, inspect the perimeter of the touch display component for any adhesive overflow. If overflow is detected, remove the component and reapply the appropriate adhesive. Carefully examine whether any gaps exist between the touch display component and the battery cover, ensuring the adhesive securely bonds both parts together.

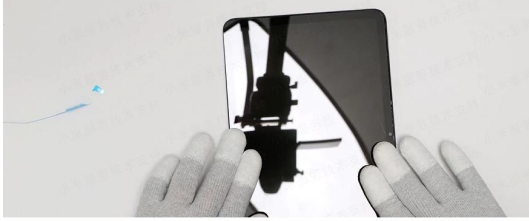


and press the four sides of the touch display component.

## Disassembly and Assembly

(3) Make sure the touch display assembly is installed properly. Put it into the pressing jig and press it.

After pressing is completed, inspect the perimeter of the touch display component for any adhesive overflow. If overflow is detected, remove the component and reapply the appropriate adhesive. Carefully examine whether any gaps exist between the touch display component and the battery cover, ensuring the adhesive securely bonds both parts together.



Make sure the touch display assembly is installed properly.

After pressing is completed, inspect the perimeter of the touch display component for any adhesive overflow. If overflow is detected, remove the component and reapply the appropriate adhesive. Carefully examine whether any gaps exist between the touch display component and the battery cover, ensuring the adhesive securely bonds both parts together.



Put it into the pressing jig and press it.

### 19. Install the SIM card tray:

Insert the SIM card tray directly into the phone's SIM card tray.



Insert the SIM card tray directly into the phone's SIM card tray.



Insert the SIM card tray directly into the phone's SIM card tray.

### **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](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

This manual is owned by Beijing Xiaomi Technology Co., Ltd.  
Any unauthorized use of this guide may be punished according to applicable international/domestic laws.