Repair manual

myPhone N23 plus

MS2401 | MS2401e

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Introduction

This manual contains technical instructions for replacing original manufacturer parts in your myPhone smartphone and is intended for end users and service providers with the knowledge, experience and tools required to repair electronic devices.

All functionality, features, specifications, and other product information provided in this document, including, but not limited to, the benefits, design, pricing, components, performance, availability, and capabilities of the product, are subject to change without notice or obligation. mPTech reserves the right to make changes to this manual and the product described herein at any time without obligation to notify you of such changes.

IMPORTANT!

Read the entire manual first. Do not continue if you are not comfortable performing repairs according to the instructions in this manual.



Failure to follow repair instructions, use of non-original parts or inappropriate tools may result in damage to the part/device or compromise its functionality and water resistance.



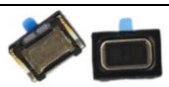
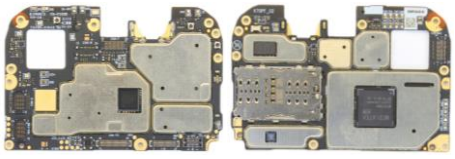
Failure to follow repair instructions, use of non-original parts or inappropriate tools may cause fire or other safety hazards and lead to property damage, personal injury or death.

Warranty

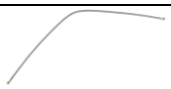
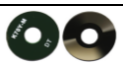
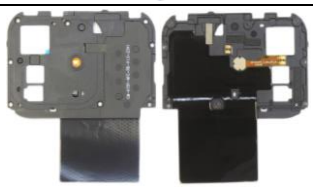
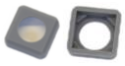
Damage caused by repairs performed outside of an Authorized Service Center is not covered by the mPTech warranty. Such damage may result in future repairs being subject to out-of-warranty costs or the device becoming ineligible for future repairs performed by mPTech.

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Parts

Product	Part ID	Image
Battery	SMA002982	
Buzzer	SMA002965	
Fingerprint sensor	SMA002976	
Speaker	SMA002980	
Secondary camera	SMA002975	
Macro camera	SMA002974	
Front camera	SMA002972	
Rear camera	SMA002973	
Rear cover	SMA002964	
LCD + TP	SMA002962	
Side button membrane	SMA002977	
Fingerprint sensor foam	SMA002984	
Fingerprint connector foam	SMA002985	
Main PCBA	SMA002969	
Light sensor board	SMA002971	

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Sub-PCBA	SMA002970	
RF cable	SMA002981	
On/Off button	SMA002983	
LED lens	SMA002967	
Rear camera lens	SMA002966	
Screw (M1.4*3.0MM)	SMA003023	
SIM tray	SMA002961	
Main FPC	SMA002978	
LCD FPC	SMA002979	
Mainboard flex cable	SMA002994	
BB conductive tape	SMA002987	
LCM conductive tape	SMA002989	
PA conductive tape	SMA002986	
PMU conductive tape	SMA002988	
BB thermal pad	SMA002991	
IC thermal pad	SMA002993	
PA thermal pad	SMA002990	
PMU thermal pad	SMA002992	
Mainboard bracket	SMA002963	
Speaker gasket	SMA002995	
Front camera gasket	SMA002968	
HF FPC gasket	SMA003025	
USB FPC gasket	SMA003024	
Vibration	SMA003021	

* Always use original manufacturer parts. Third-party parts may not function properly.

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Tools

Tools not supplied by mPTech with the product can be purchased at electronics stores.

Use only demagnetized tools specifically designed for repairing small electronic devices, as most electronic components are sensitive to electromagnetic interference.

Repair tools

Triangular opening tool	
Antistatic tweezers (anti-ESD*)	
Plastic opening tool	
Philips PH0 screwdriver	
Microfiber cloth	
IPA cloths	
SIM card tray eject pin	

* ESD: electrostatic discharge

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Security

During repairs, you must wear safety equipment at all times.

Safety glasses	
Antistatic gloves (anti-ESD*)	
Antistatic mat (anti-ESD*)	
Grounding strap (anti-ESD*)	

*ESD: electrostatic discharge



Perform repairs in a well-ventilated area.
The work area should be free of foreign objects and sharp materials.
Do not leave loose screws, extra screws, or small parts inside the device.
Use caution when using sharp tools near the battery.



The device contains a built-in lithium-ion battery. Improper battery replacement, improper handling of parts, failure to discharge the battery before repair, or failure to follow the instructions provided may result in battery overheating, swelling, venting, leakage, or a thermal runaway event. These events can cause fire, personal injury, death, data loss, or damage to the device, parts, or other property.



Before you begin repairs, completely discharge the battery. A discharged battery is less prone to thermal events. If you cannot determine the battery charge level, do not repair the device.

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Disassembly

The device is disassembled in the following order:

- Rear cover
- Side buttons
- Motherboard bracket
- Motherboard
- Front camera
- Main camera
- Buzzer *(speaker)*
- Sub-PCBA *(microphone. USB-C)*
- Battery
- LCD display

0| Fist steps

Before starting repairs, always perform the following steps:

- Back up your device.
- Completely discharge the battery.
- Turn off the device.
- Disconnect all cables.
- Remove all additional accessories (e.g., cases).
- Organize and clean your work area.
- Put on an ESD wrist strap and attach it to a properly grounded ESD mat.



Ensure you are using the correct tools and parts for the model you are repairing.
Take your time. Read all instructions and warnings carefully.
The end of each tape/antenna must be aligned with the connector. Press each end into the connector until you hear a click to ensure that it is securely attached.

1| SIM tray



Disassembling the device with the SIM card tray in place may damage the device.

Required tools

- SIM card tray eject pin

Steps

1. Locate the SIM card tray.
2. Insert the SIM card eject tool into the hole next to the SIM card tray.
3. Push the SIM card eject tool toward the case to eject the SIM card tray.
4. Remove the SIM card tray.

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2| Rear cover

Required tools

- triangular opening tool

Steps

1. Insert the opening tool between the casing and the LCD display to create a gap.
2. Slide the tool along the edges of the device to separate the two parts.

The opening tool should not be inserted deeper than the width of the LCD frame, otherwise the display will be damaged.



3| Side buttons

Required tools

- None

Steps

0. After completing the previous steps, the rear cover containing the mechanical buttons will be separated from the device.

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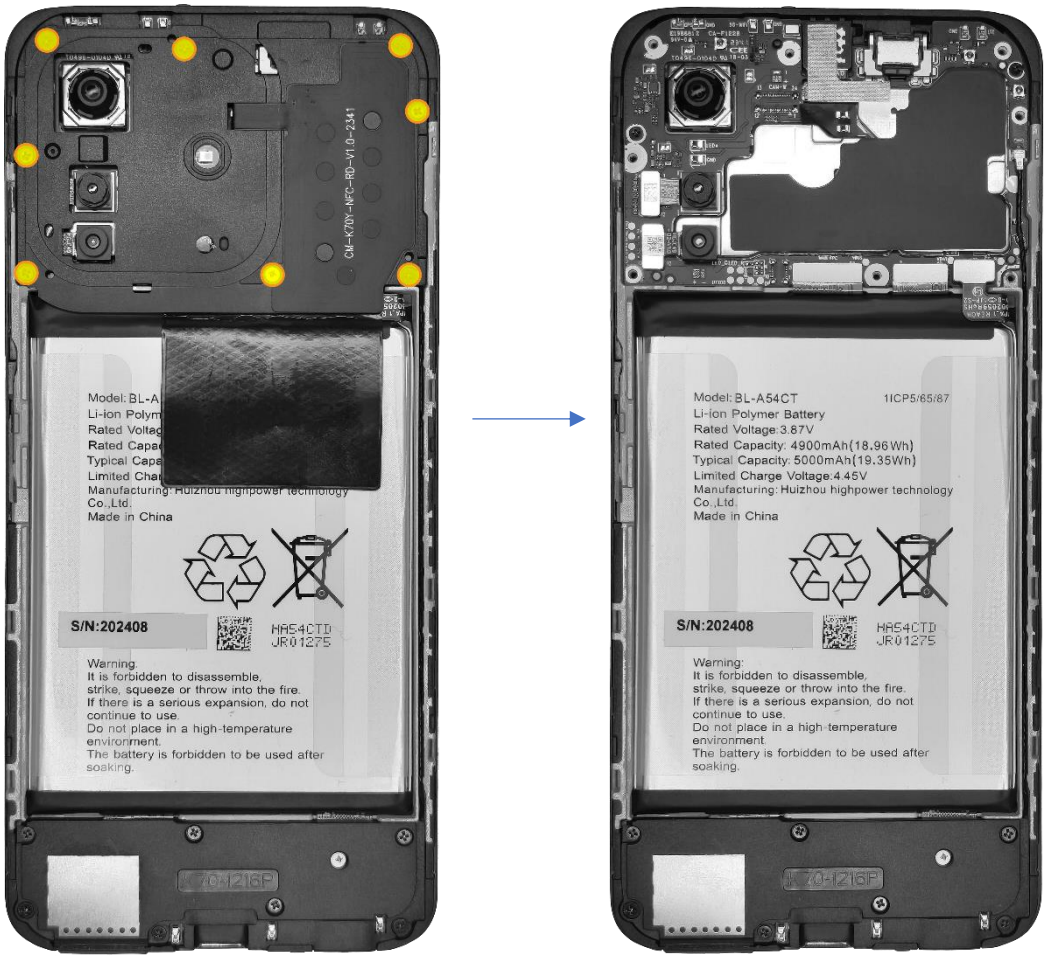
4| Motherboard bracket

Required tools

- Philips PH0 screwdriver
- antistatic tweezers

Steps

1. Find the 8 points where the screws are located.
2. Remove all screws using a screwdriver.
3. Lift the cover using antistatic tweezers.



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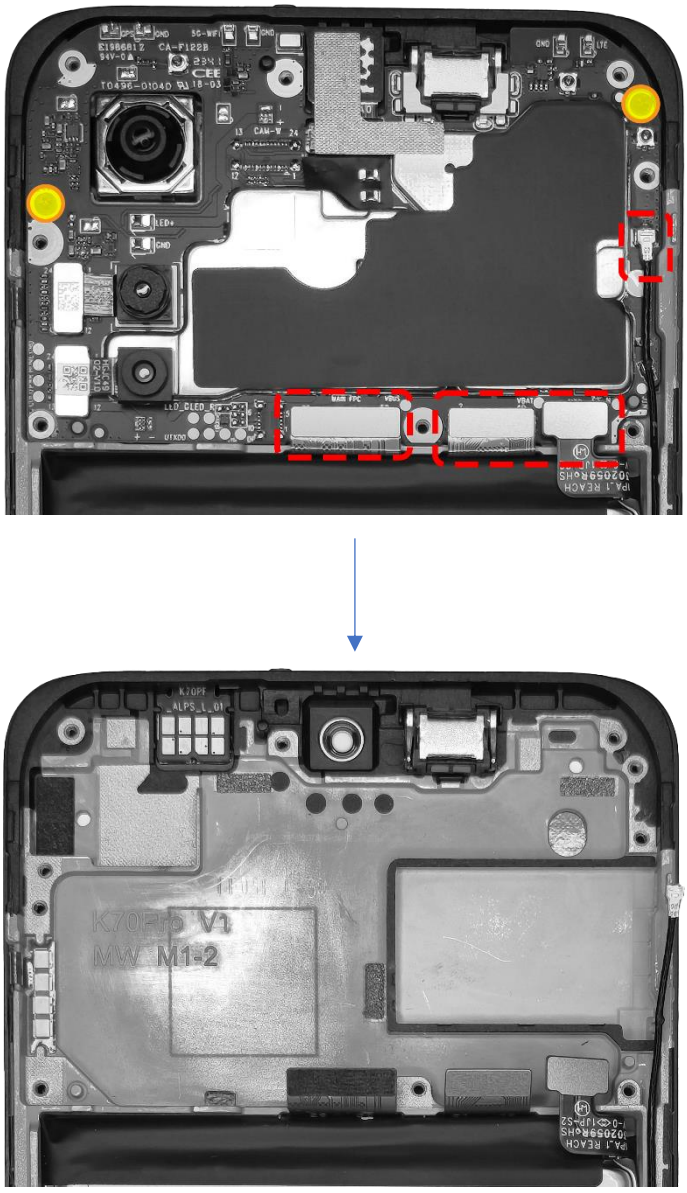
5| Motherboard

Required tools

- Philips PH0 screwdriver
- antistatic tweezers

Steps

1. Find the 2 points where the screws are located.
2. Remove all screws using a screwdriver.
3. Disconnect the battery, LCD, and sub-PCBA connectors using antistatic tweezers.
4. Disconnect the RF connector using antistatic tweezers.
5. Carefully grasp the motherboard with round-tipped tweezers and remove it from the case.



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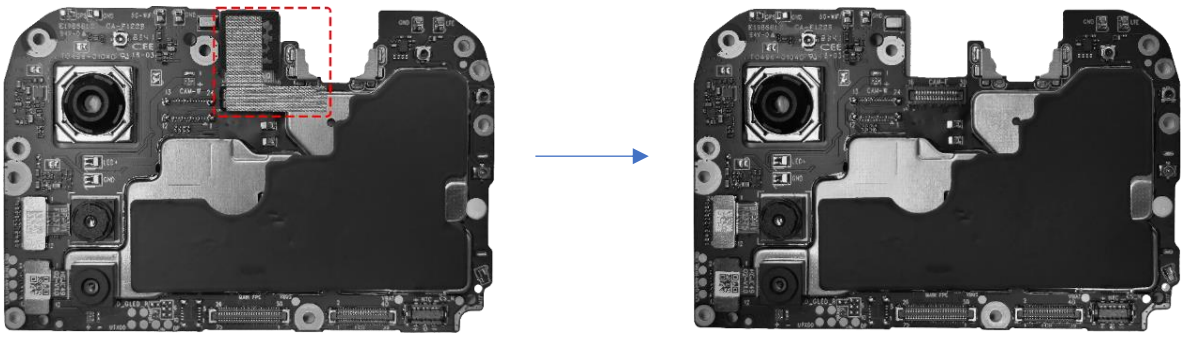
6| Front camera

Required tools

- antistatic tweezers

Steps

1. Peel off the tape holding the front camera using antistatic tweezers.
2. Disconnect the camera connector using antistatic tweezers.
3. Carefully grasp the camera with round-tipped tweezers and remove it from the housing.



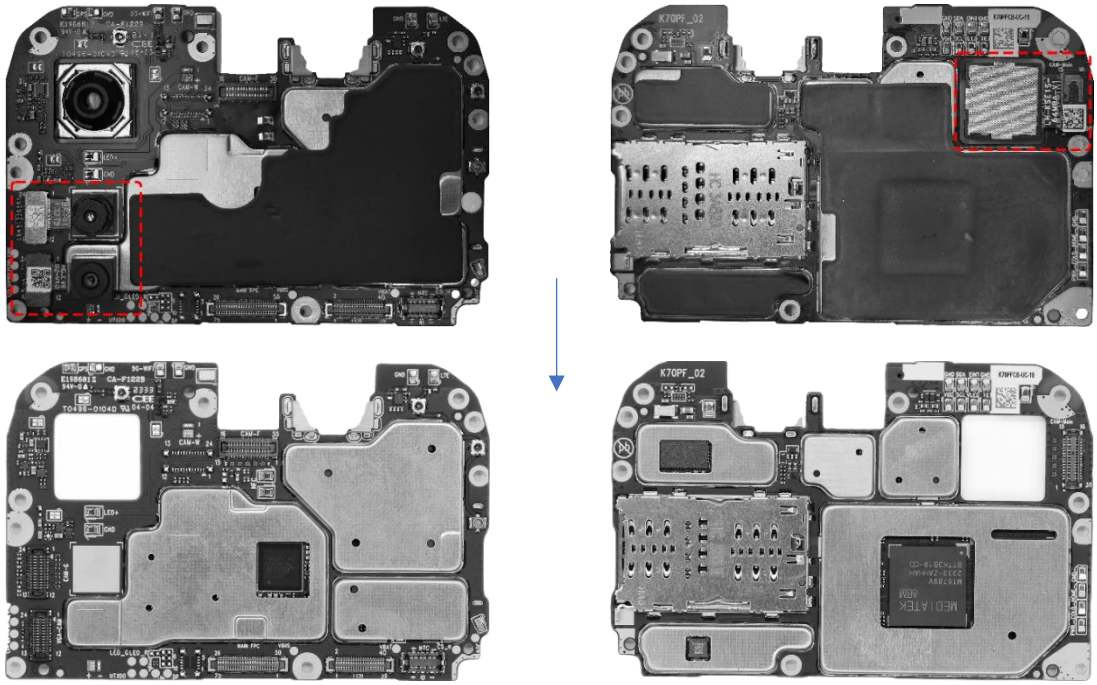
7| Main camera

Required tools

- antistatic tweezers

Steps

1. Disconnect the three camera ribbon connectors using antistatic tweezers.



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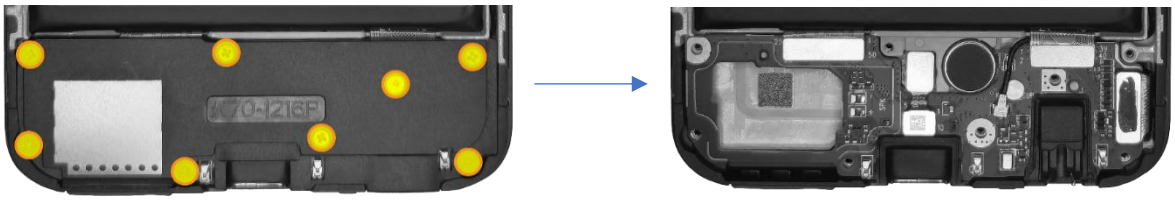
8| Buzzer

Required tools

- Philips PH0 screwdriver
- antistatic tweezers

Steps

1. Find the 8 points where the screws are located.
2. Remove all screws using a screwdriver.
3. Lift the box with the buzzer using antistatic tweezers and remove it from the device.



9| Sub-PCBA

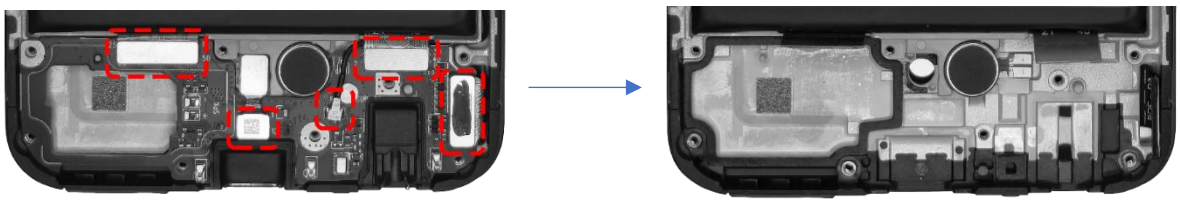
Includes: main microphone, USB-C

Required tools

- antistatic tweezers

Steps

1. Find the 2 points where the screws are located.
2. Remove all screws using a screwdriver.
3. Disconnect all ribbon connectors and the RF connector using antistatic tweezers.
4. Carefully grasp the sub-PCBA with round-tipped tweezers and remove it from the case.



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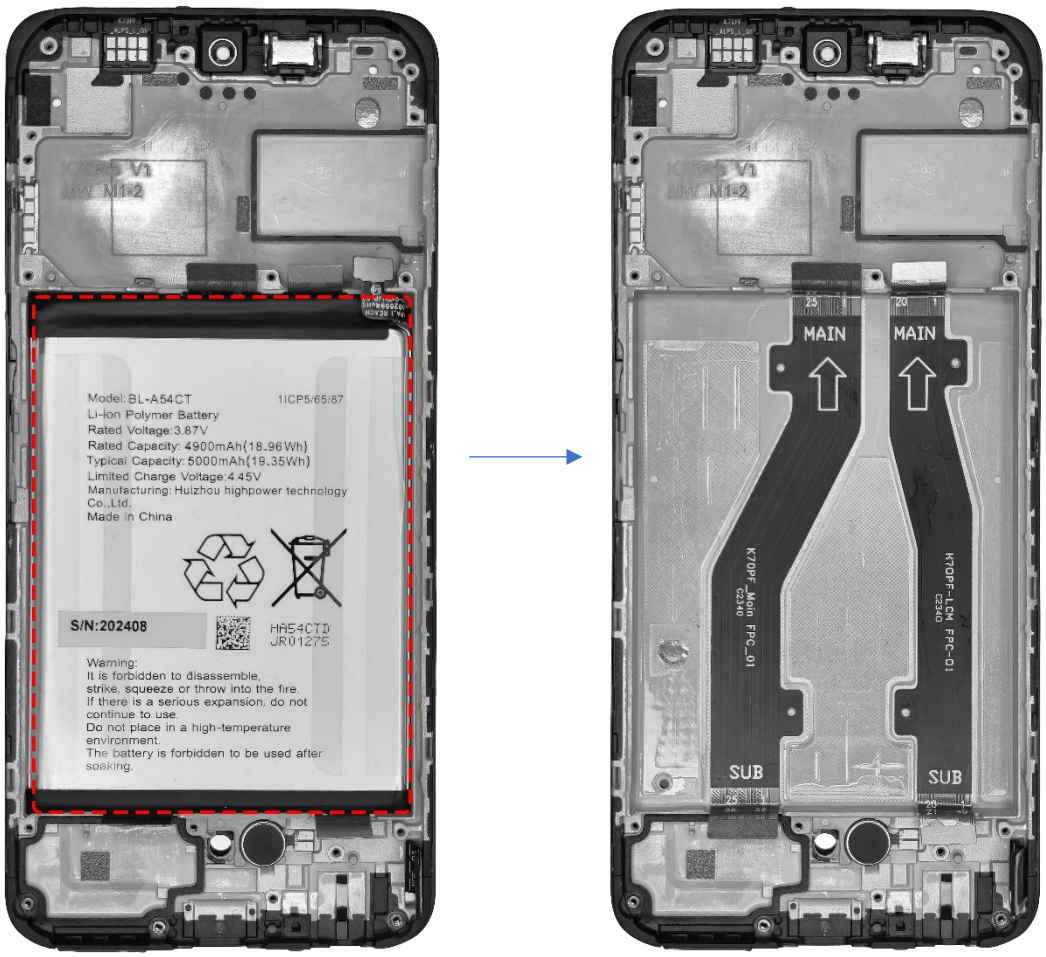
10| Battery

Required tools

- IPA (isopropyl alcohol)

Steps

1. Use IPA (isopropyl alcohol) to loosen up the bond between the battery and the housing.
2. Peel off the plastic tabs from the battery.
3. Pull evenly on the plastic tabs to separate the battery from the device.



11| LCD display

Required tools

- None

Steps

1. After completing all previous disassembly steps, the LCD frame will be separated from the device.

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