

# Ascom Myco 4 Repair Instructions

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## 1 About This Document

This document contains detailed step-by-step instructions on how to access and replace specific hardware on the Ascom Myco 4™ handsets<sup>1</sup>. Ascom Myco 4 is referred to as the 'handset' throughout the document.

This document contains repair instructions for Ascom Myco 4 Cellular and Ascom Myco 4 Slim Cellular.

These instructions are targeted to professional repairers.



Power off the handset before performing repairs, unless specifically instructed otherwise.



Several components in this document are electrostatic sensitive. Observe all proper handling procedures for electrostatic sensitive devices.

For details on safety precautions and environmental considerations including battery handling, recyclability and waste management information, refer to *Ascom Myco 4, Safety Instructions, PM000353*.

### Warranty Notification

Warranty repairs of the Ascom Myco 4 handsets may only be carried out by an authorized Ascom repair center.

Any unauthorized modification, tampering or disassembly of the handset will immediately void the warranty.

If the handset requires service during the warranty period, contact the sales representative who supplied the handset for instructions on how to reach the authorized Ascom repair center.

### 1.1 Required Tools

Following tools are required for repair work:

- Blade tool
- Tweezers
- Hexagon screwdriver (1.5 mm)
- Cross screwdriver (1.6 mm)

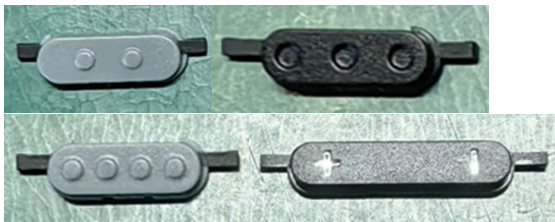
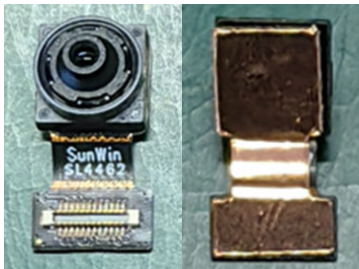


### 1.2 Spare Parts and Repair Materials

Spare parts and additional repair materials shown below are covered in this document.

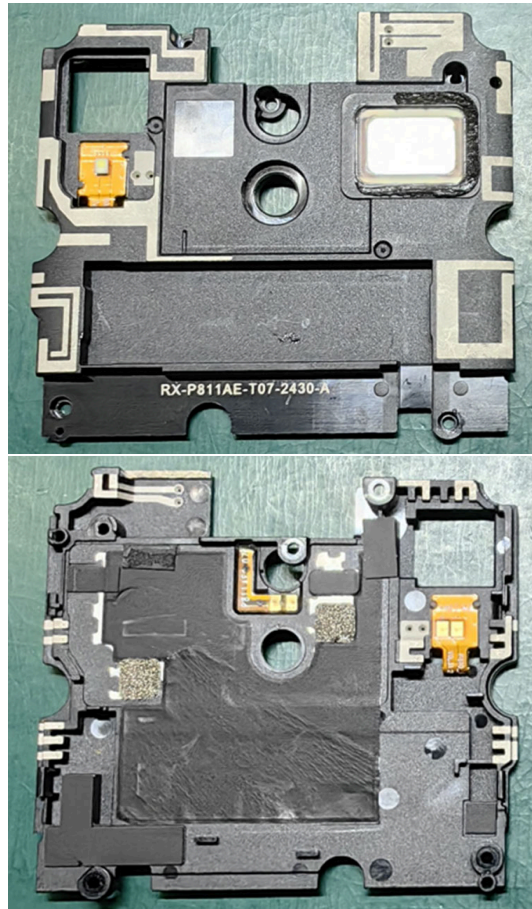
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1. Ascom Myco is a trademark of Ascom (Sweden) AB.

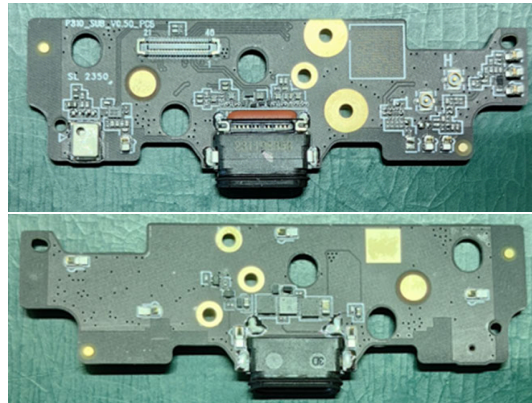
**Spare Parts**

Mechanical buttons	
Front camera	
Rear camera	
Main (rear) speaker for non-Slim handset variant	







Main (rear) speaker  
for Slim handset variant, as  
part of back upper support  
frame



Sub board, containing  
external charging port (USB-  
C), external audio connector  
(via USB-C), and main  
(bottom) microphone



## Repair Materials

Material description		Used during replacement of these spare parts
Standard clip label, black (non-Slim handset variant only)		Mechanical buttons Rear speaker Rear camera Front camera Sub board
Screw plug back adhesive x4 (Slim handset variant only) 3.55 x 4.1 x 0.05 mm		Mechanical buttons Rear speaker Rear camera Front camera Sub board
Battery compartment bottom sealing tape 54 x 5 x 0.13 mm		Mechanical buttons Rear speaker Rear camera Front camera Sub board
Vibration motor insulation, Mylar (Slim handset variant only) 12.6 x 15.08 x 0.05 mm		Front camera
Fingerprint grounding conductive fabric 15 x 4 x 0.05 mm		Front camera
Receiver FPC grounding conductive fabric 10 x 9.4 x 0.05 mm		Front camera

## 2 Disassembly Map

Disassembly workflows differ for the Ascom Myco 4 Cellular handset and the Ascom Myco 4 Slim Cellular handset. For details, refer to the flowcharts below.

Figure 1. Disassembly map for Ascom Myco 4 Cellular

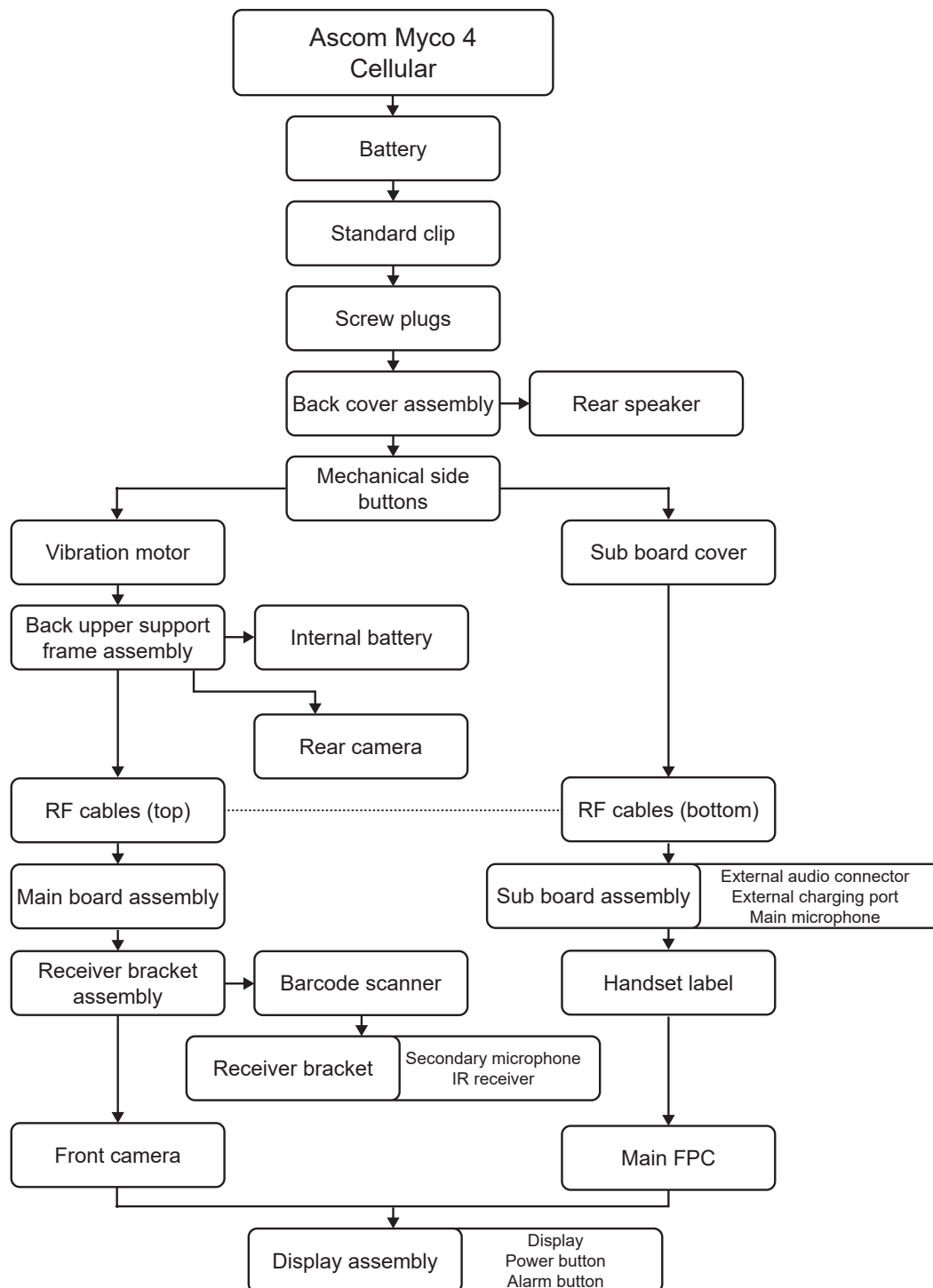
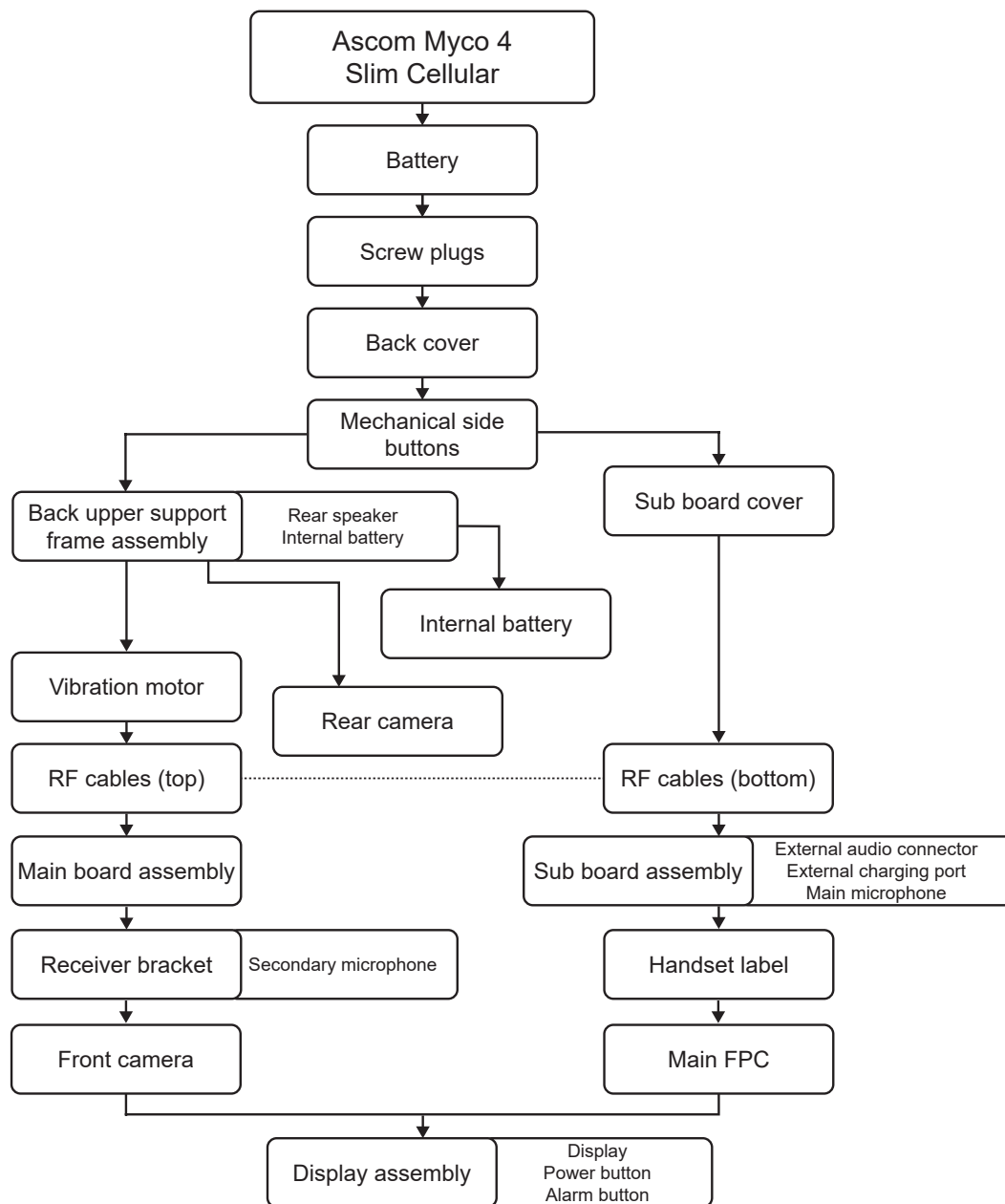


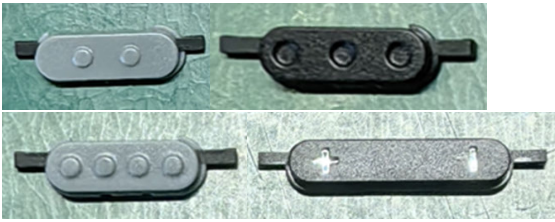
Figure 2. Disassembly map for Ascom Myco 4 Slim Cellular







3 Mechanical Buttons

This section describes disassembling of the handset to access the mechanical buttons.


Mechanical buttons	
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To reassemble the handset, follow these instructions in reverse order.


1. Unlock and remove the battery.

Ascom Myco 4	Ascom Myco 4 Slim
	

2. For non-Slim handset variant, remove the standard clip label using blade tool. When assembling, use a new clip label.

Ascom Myco 4	Ascom Myco 4 Slim
	N/A

3. For non-Slim handset variant, remove the two screws (M2x0.30x3L) using hexagon screwdriver (1.5 mm), and then detach the standard clip.

Ascom Myco 4	Ascom Myco 4 Slim
	N/A

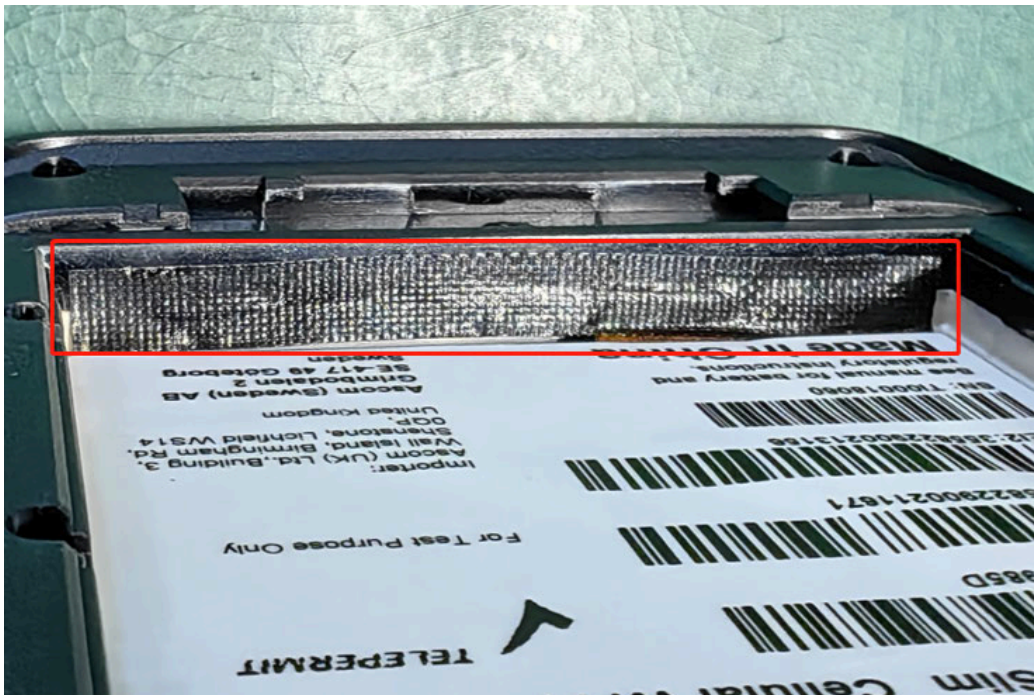
4. Remove the four screw silicone plugs using tweezers. NOTE: There are two types of plugs. Remember the position of the upper pair of plugs and of the lower pair of plugs when disassembling, and install the plugs back in their original positions when assembling.  
For Slim handset variant, when assembling, use new back adhesives for the screw silicone plugs.



5. Remove the 14 screws (4pcs M1.6xL5.0, 6pcs M1.6xL4.0, 2pcs M1.6xL6.0, 2pcs M1.6xL4.3) using cross screwdriver (1.6 mm). NOTE: There are four types of screws and some of them have gaskets. Remember the position of each screw when disassembling, and install the screws back in their original positions when assembling.  
Then detach the back cover.  
NOTE: When assembling the back cover, ensure that sealing tape attached at the bottom of the battery compartment is in place.








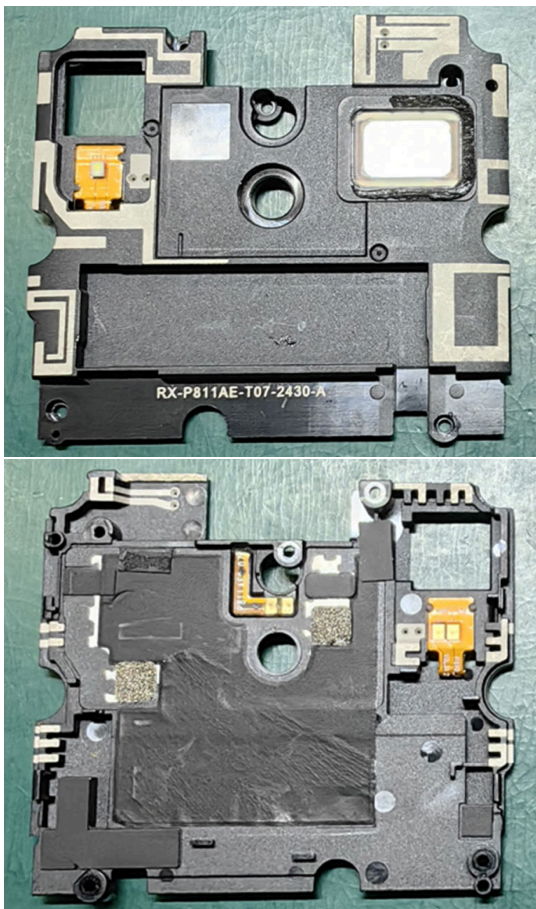
6. Remove the four mechanical side buttons. NOTE: The power button is not removable.







## 4 Main (Rear) Speaker

This section describes disassembling of the handset to access the rear speaker.


<p>Main (rear) speaker for non-Slim handset variant</p>	
<p>Main (rear) speaker for Slim handset variant, as part of back upper support frame</p>	

To reassemble the handset, follow these instructions in reverse order.


1. Unlock and remove the battery.

Ascom Myco 4	Ascom Myco 4 Slim
	

2. For non-Slim handset variant, remove the standard clip label using blade tool. When assembling, use a new clip label.

Ascom Myco 4	Ascom Myco 4 Slim
	N/A

3. For non-Slim handset variant, remove the two screws (M2x0.30x3L) using hexagon screwdriver (1.5 mm), and then detach the standard clip.

Ascom Myco 4	Ascom Myco 4 Slim
	N/A

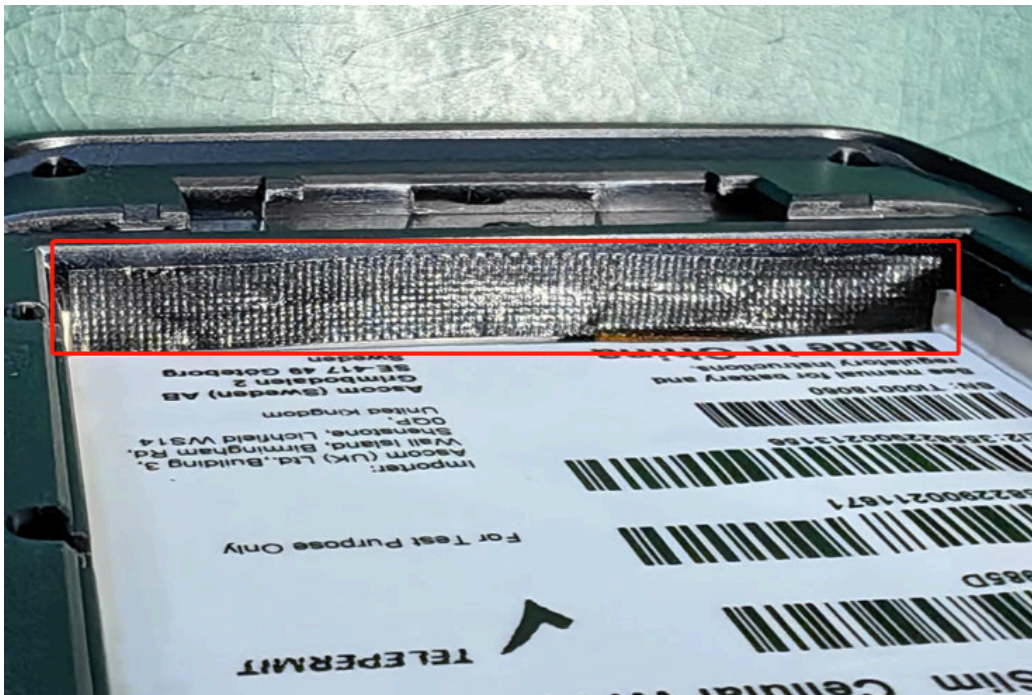
4. Remove the four screw silicone plugs using tweezers. NOTE: There are two types of plugs. Remember the position of the upper pair of plugs and of the lower pair of plugs when disassembling, and install the plugs back in their original positions when assembling.  
For Slim handset variant, when assembling, use new back adhesives for the screw silicone plugs.



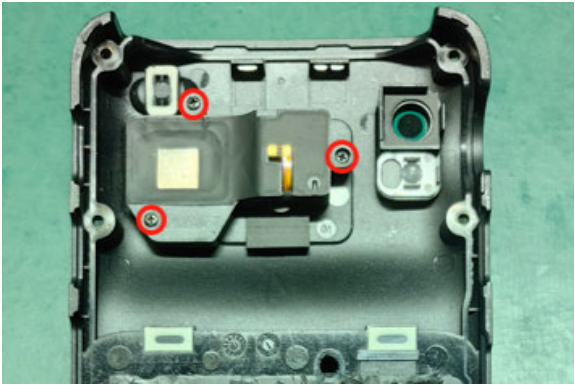
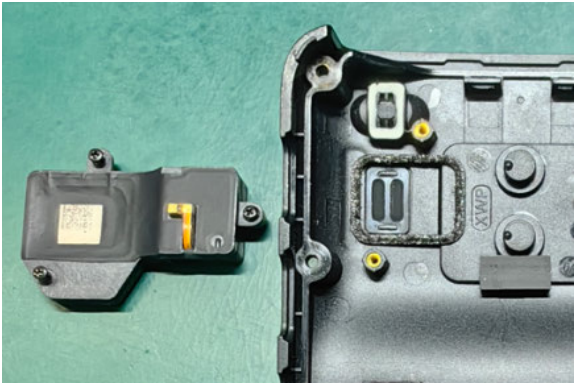
5. Remove the 14 screws (4pcs M1.6xL5.0, 6pcs M1.6xL4.0, 2pcs M1.6xL6.0, 2pcs M1.6xL4.3) using cross screwdriver (1.6 mm). NOTE: There are four types of screws and some of them have gaskets. Remember the position of each screw when disassembling, and install the screws back in their original positions when assembling.  
Then detach the back cover.  
NOTE: When assembling the back cover, ensure that sealing tape attached at the bottom of the battery compartment is in place.








6. For non-Slim handset variant, remove the three screws (M1.4x0.3x3.0L) on the back cover. Then detach the semi-permanently glued rear speaker from the rear cover.

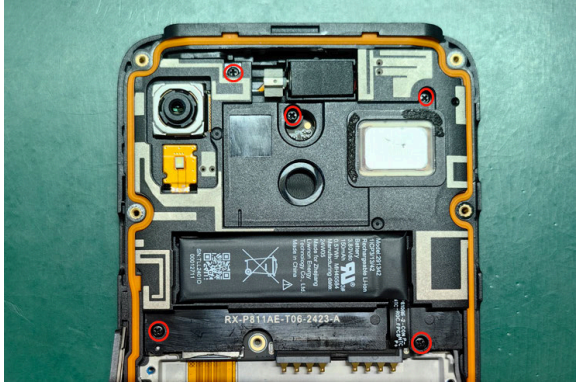
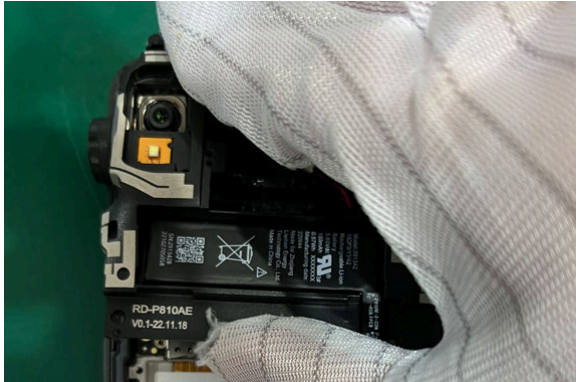
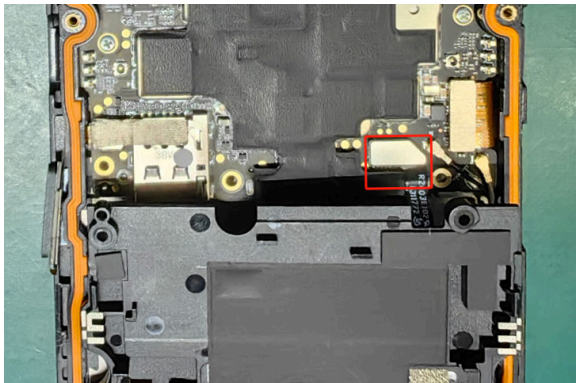
Ascom Myco 4	Ascom Myco 4 Slim
	N/A
	

7. For Slim handset variant, remove the four mechanical side buttons. NOTE: The power button is not removable.

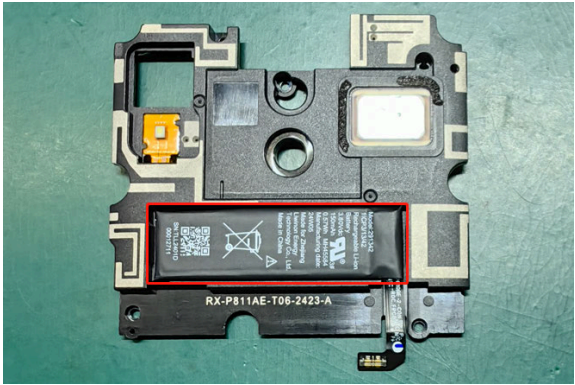
Ascom Myco 4	Ascom Myco 4 Slim
N/A	

8. For Slim handset variant, remove the five screws (M1.4x0.3x3.5L) using cross screwdriver (1.6 mm). Then detach the back upper support frame (containing the internal battery), turn it over, and disconnect the battery connector from the main board.



Ascom Myco 4	Ascom Myco 4 Slim
N/A	
	
	

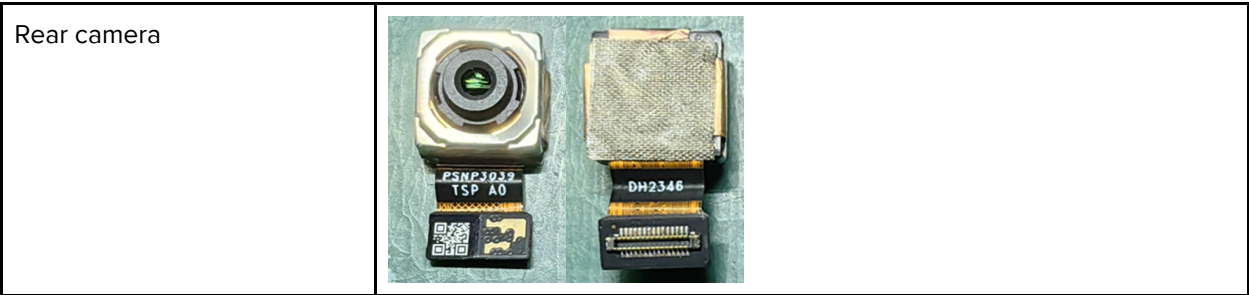
9. For Slim handset variant, detach the semi-permanently glued internal battery from the back upper support frame after slightly heating it up.

Ascom Myco 4	Ascom Myco 4 Slim
N/A	

The rear speaker is part of the back upper support frame.

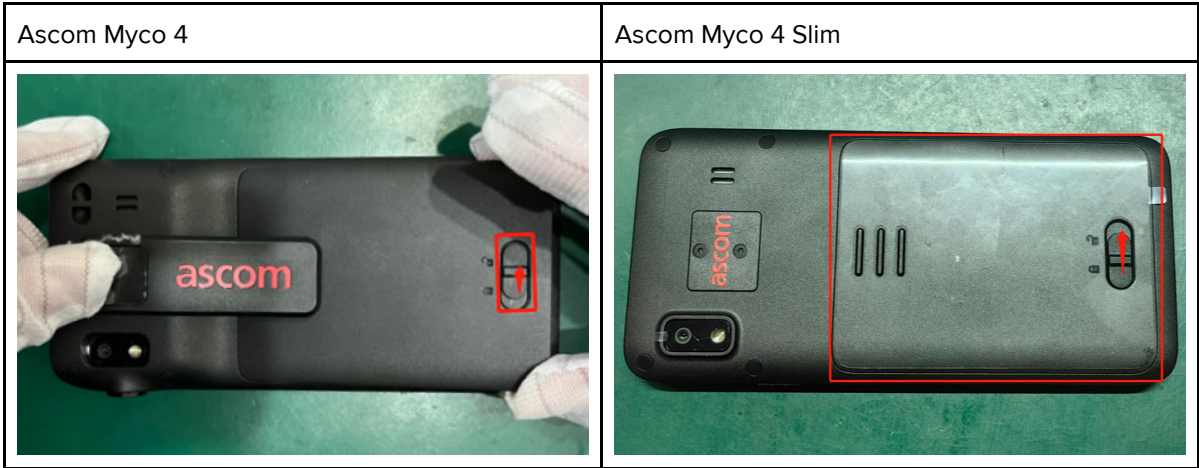
5      Rear Camera

This section describes disassembling of the handset to access the rear camera.

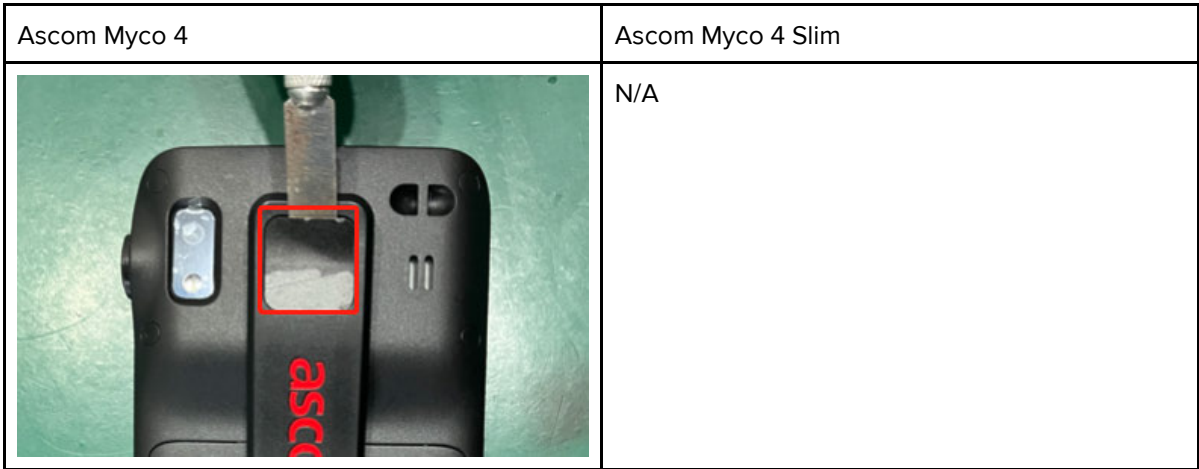


To reassemble the handset, follow these instructions in reverse order.


1.    Unlock and remove the battery.



2.    For non-Slim handset variant, remove the standard clip label using blade tool. When assembling, use a new clip label.



3. For non-Slim handset variant, remove the two screws (M2x0.30x3L) using hexagon screwdriver (1.5 mm), and then detach the standard clip.

Ascom Myco 4	Ascom Myco 4 Slim
	N/A

4. Remove the four screw silicone plugs using tweezers. NOTE: There are two types of plugs. Remember the position of the upper pair of plugs and of the lower pair of plugs when disassembling, and install the plugs back in their original positions when assembling.  
For Slim handset variant, when assembling, use new back adhesives for the screw silicone plugs.



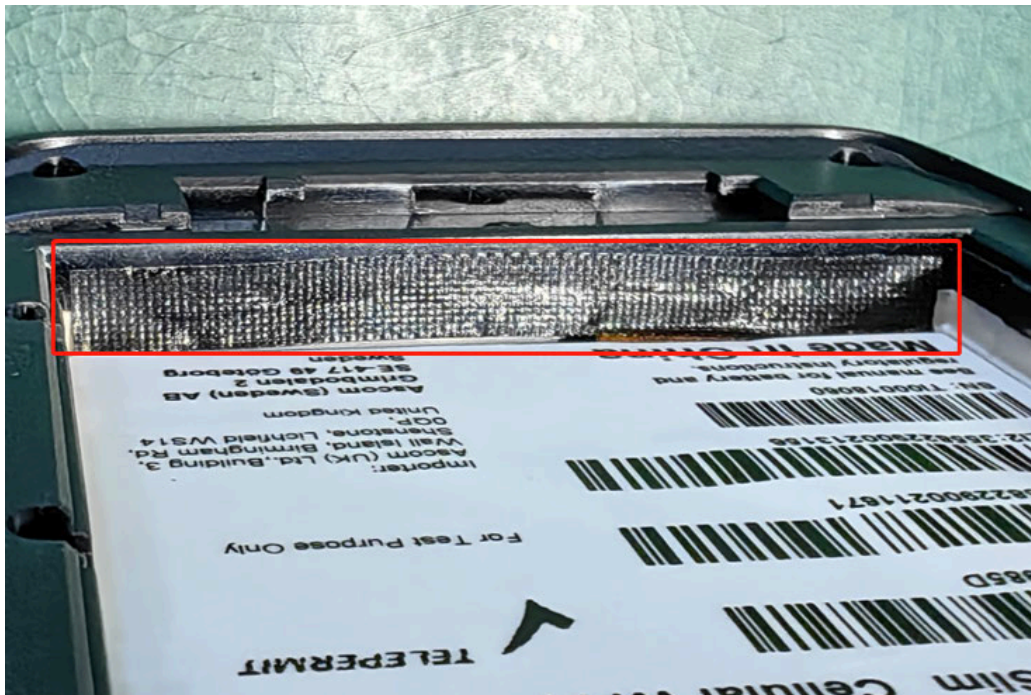
5. Remove the 14 screws (4pcs M1.6xL5.0, 6pcs M1.6xL4.0, 2pcs M1.6xL6.0, 2pcs M1.6xL4.3) using cross screwdriver (1.6 mm). NOTE: There are four types of screws and some of them have gaskets. Remember the position of each screw when disassembling, and install the screws back in their original positions when assembling.  
Then detach the back cover.



NOTE: When assembling the back cover, ensure that sealing tape attached at the bottom of the battery compartment is in place.







6. Remove the four mechanical side buttons. NOTE: The power button is not removable.

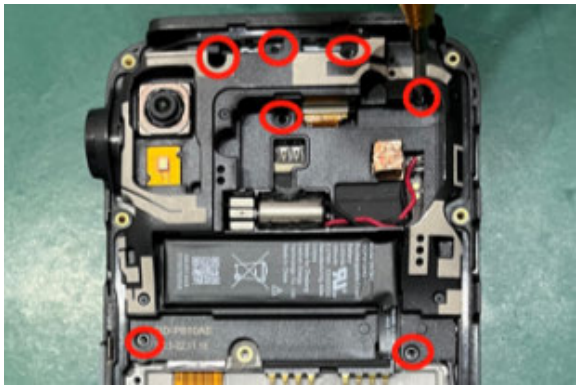
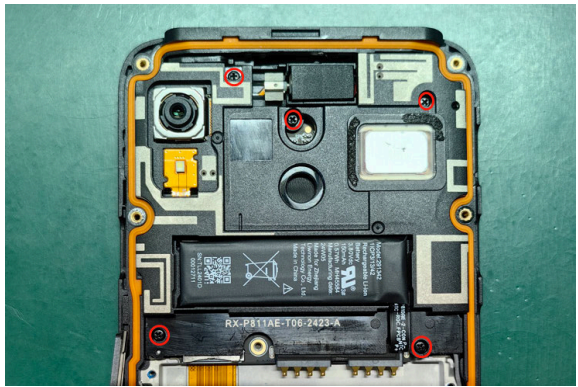


7. For non-Slim handset variant, remove the vibration motor and high-temperature insulating glue from the back upper support frame.

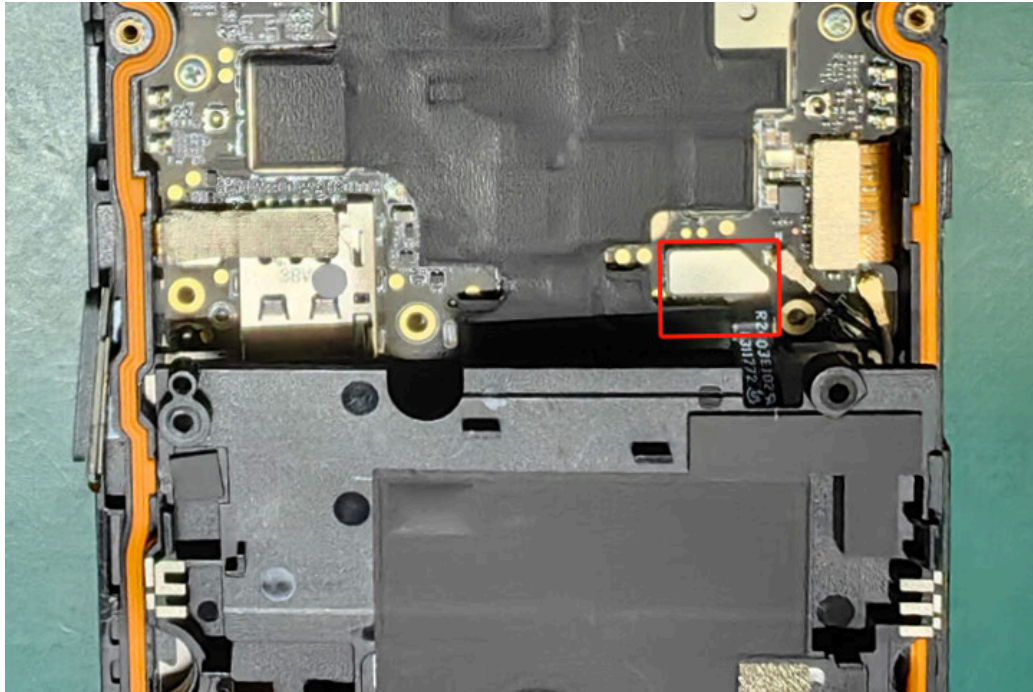
Ascom Myco 4	Ascom Myco 4 Slim
	N/A

8. Remove the highlighted screws using cross screwdriver (1.6 mm). For non-Slim handset variant, there are seven screws (2pcs M1.4x0.3x3.0L, 5pcs M1.4x0.3x3.5L); for Slim handset variant, there are five screws (M1.4x0.3x3.5L).  
Then detach the back upper support frame (containing the internal battery), turn it over, disconnect the battery connector from the main board, and remove the back upper support frame.



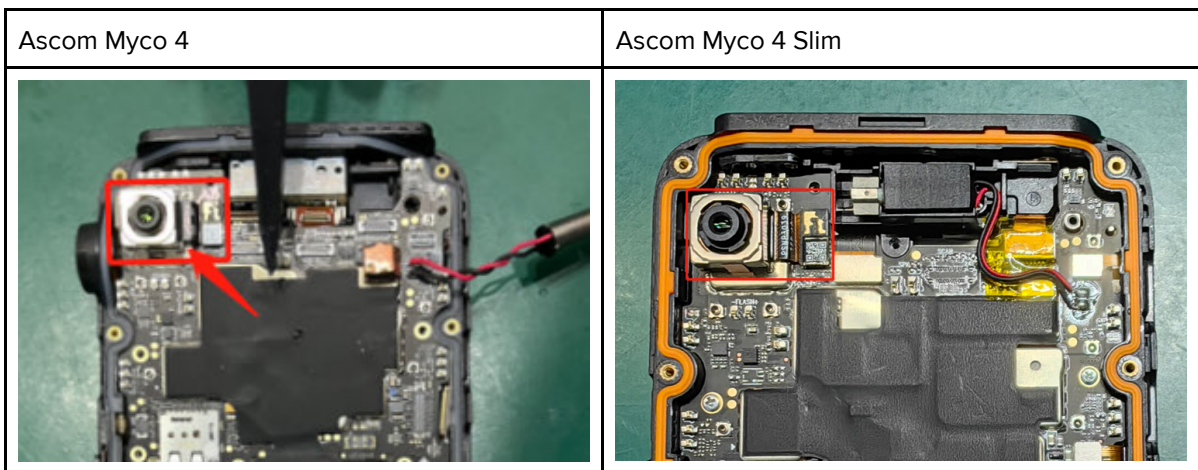
Ascom Myco 4	Ascom Myco 4 Slim
	





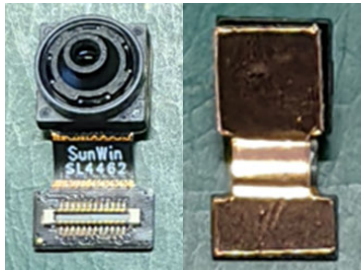
9. Disconnect the camera connector from the main board and remove the rear camera. NOTE: The rear camera is attached to the main board by a double-sided tape.

NOTE: Installation with double-sided tape requires high precision for the handset to be correctly assembled.





6 Front Camera

This section describes disassembling of the handset to access the front camera.


Front camera	
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To reassemble the handset, follow these instructions in reverse order.

1. Unlock and remove the battery.


Ascom Myco 4	Ascom Myco 4 Slim
	

2. For non-Slim handset variant, remove the standard clip label using blade tool. When assembling, use a new clip label.

Ascom Myco 4	Ascom Myco 4 Slim
	N/A



3. For non-Slim handset variant, remove the two screws (M2x0.30x3L) using hexagon screwdriver (1.5 mm), and then detach the standard clip.

Ascom Myco 4	Ascom Myco 4 Slim
	N/A

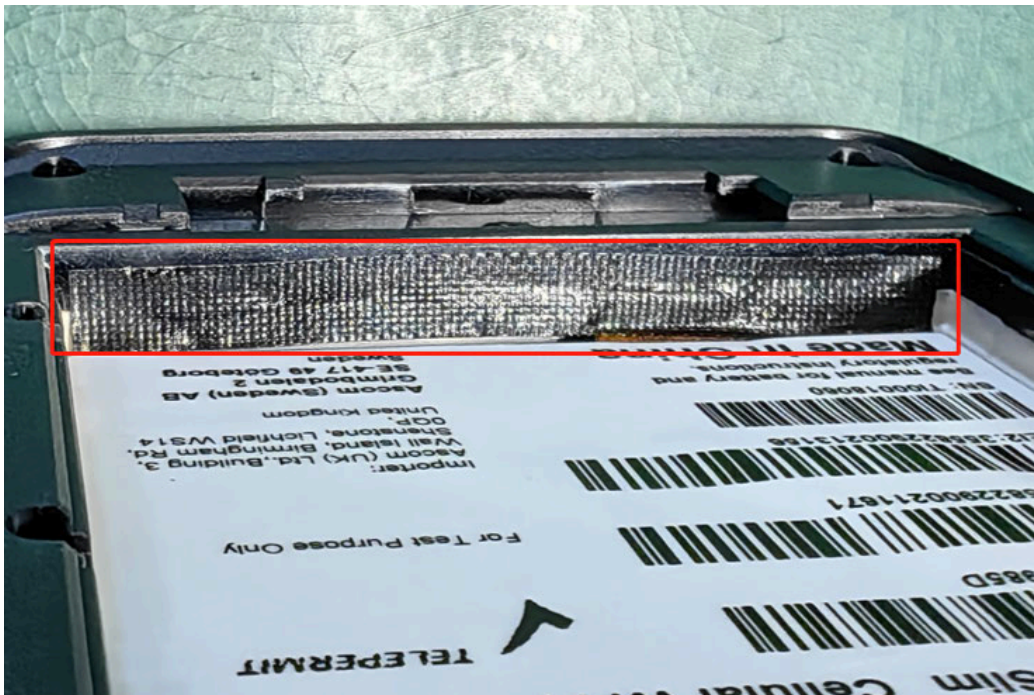
4. Remove the four screw silicone plugs using tweezers. NOTE: There are two types of plugs. Remember the position of the upper pair of plugs and of the lower pair of plugs when disassembling, and install the plugs back in their original positions when assembling.  
For Slim handset variant, when assembling, use new back adhesives for the screw silicone plugs.



5. Remove the 14 screws (4pcs M1.6xL5.0, 6pcs M1.6xL4.0, 2pcs M1.6xL6.0, 2pcs M1.6xL4.3) using cross screwdriver (1.6 mm). NOTE: There are four types of screws and some of them have gaskets. Remember the position of each screw when disassembling, and install the screws back in their original positions when assembling.  
Then detach the back cover.

NOTE: When assembling the back cover, ensure that sealing tape attached at the bottom of the battery compartment is in place.






6. Remove the four mechanical side buttons. NOTE: The power button is not removable.

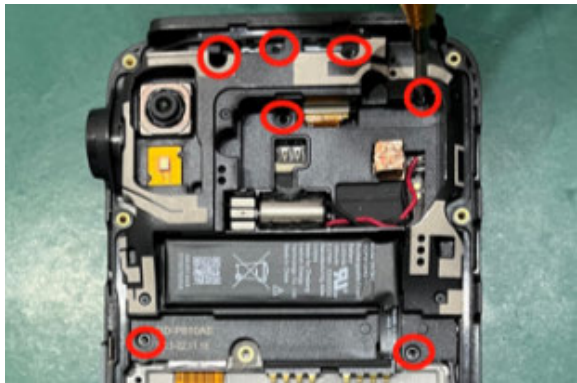
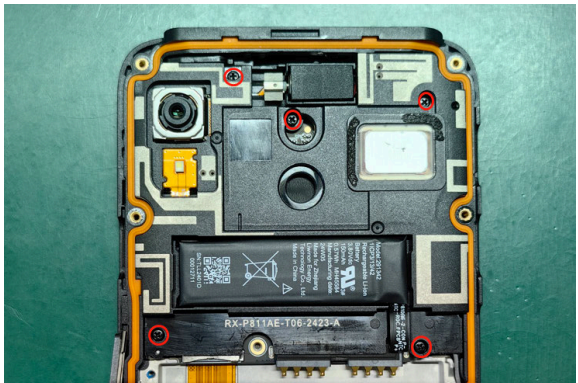


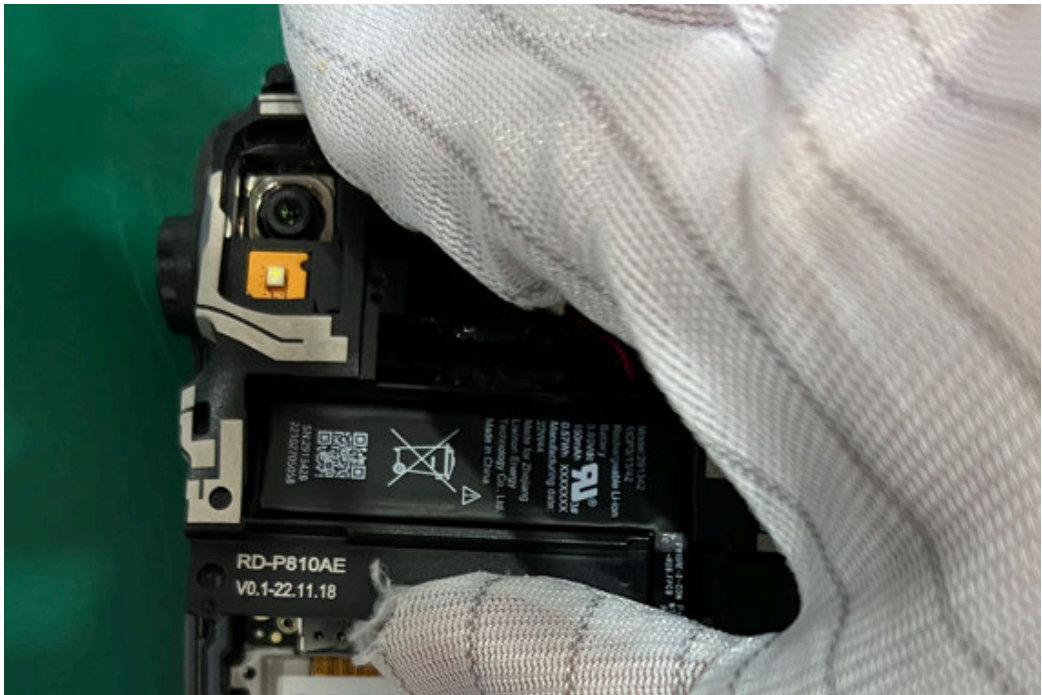


7. For non-Slim handset variant, remove the vibration motor and high-temperature insulating glue from the back upper support frame.

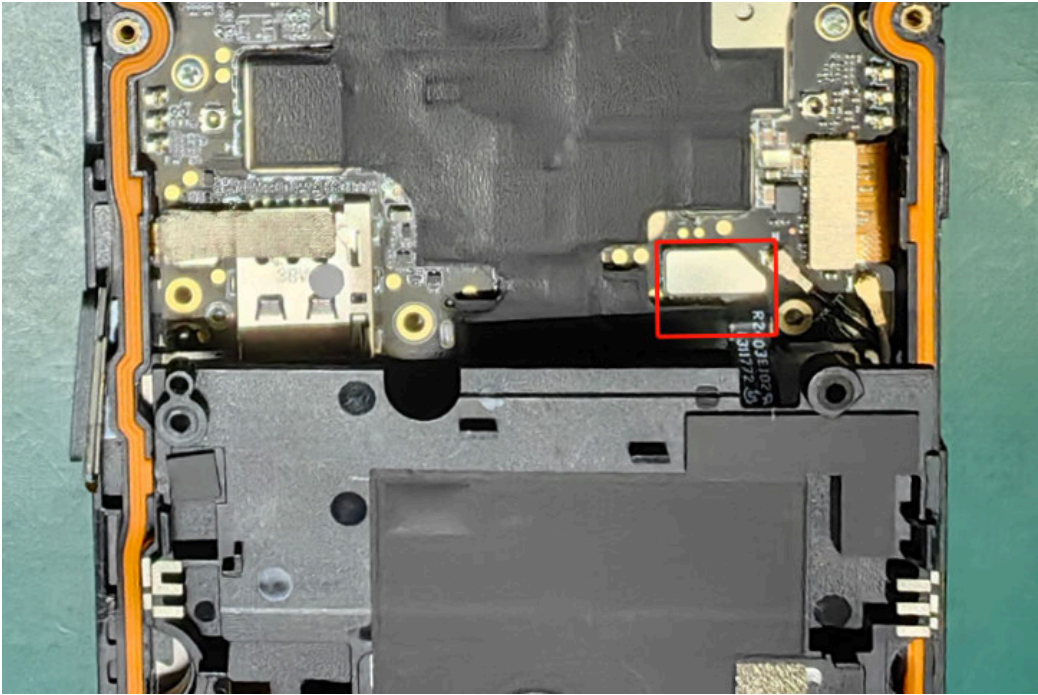
Ascom Myco 4	Ascom Myco 4 Slim
	N/A

8. Remove the highlighted screws using cross screwdriver (1.6 mm). For non-Slim handset variant, there are seven screws (2pcs M1.4x0.3x3.0L, 5pcs M1.4x0.3x3.5L); for Slim handset variant, there are five screws (M1.4x0.3x3.5L). Then detach the back upper support frame (containing the internal battery), turn it over, disconnect the battery connector from the main board, and remove the back upper support frame.

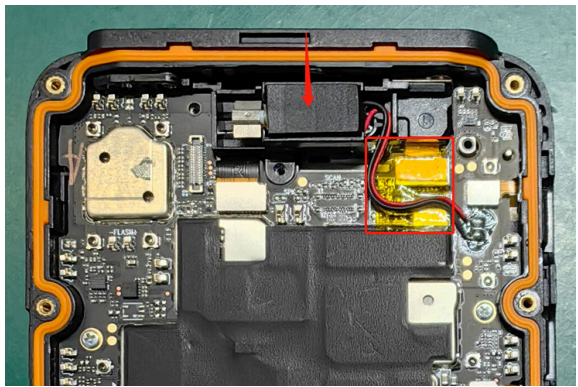
Ascom Myco 4	Ascom Myco 4 Slim
	



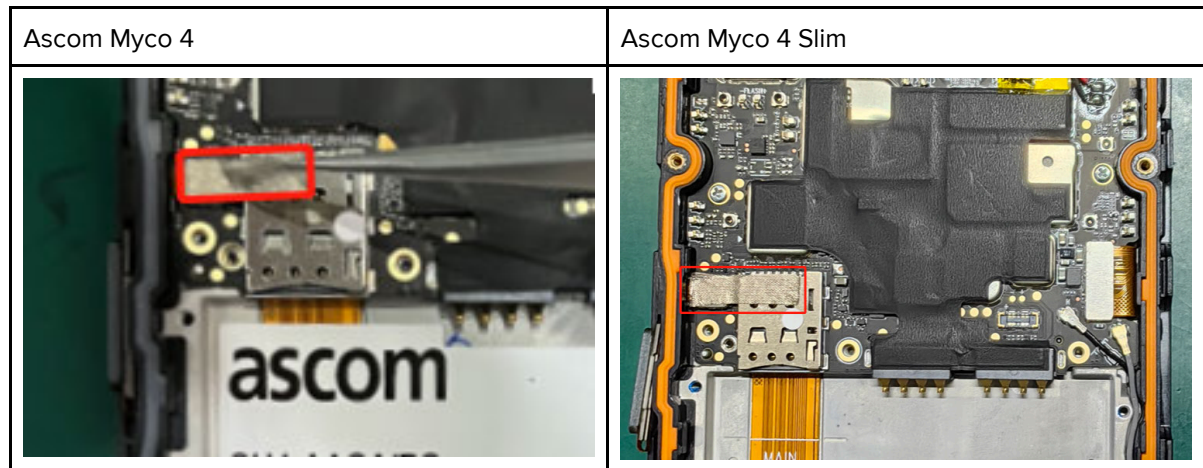




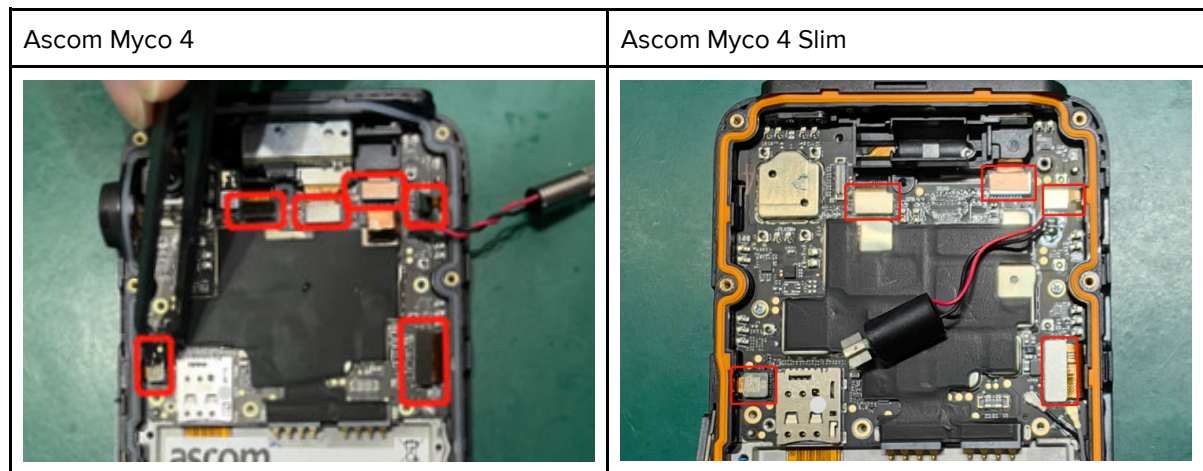
9. For Slim handset variant, remove the vibration motor and high-temperature insulating glue from the receiver bracket.

Ascom Myco 4	Ascom Myco 4 Slim
N/A	

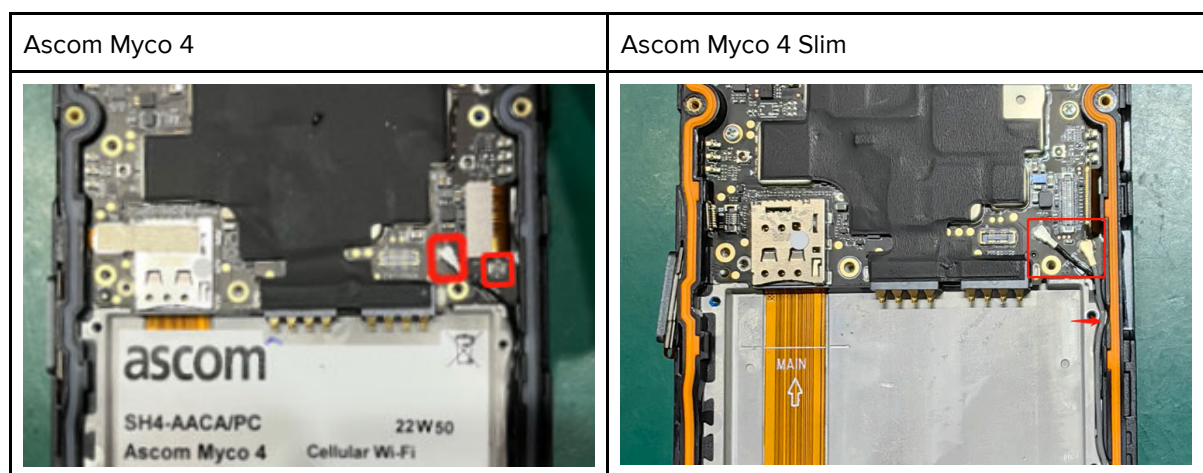
10. Remove the fingerprint grounding conductive fabric from the main board.



11. Disconnect the FPC BTB connectors from the main board. For non-Slim handset variant, there are six BTB connectors; for Slim handset variant, there are five BTB connectors.

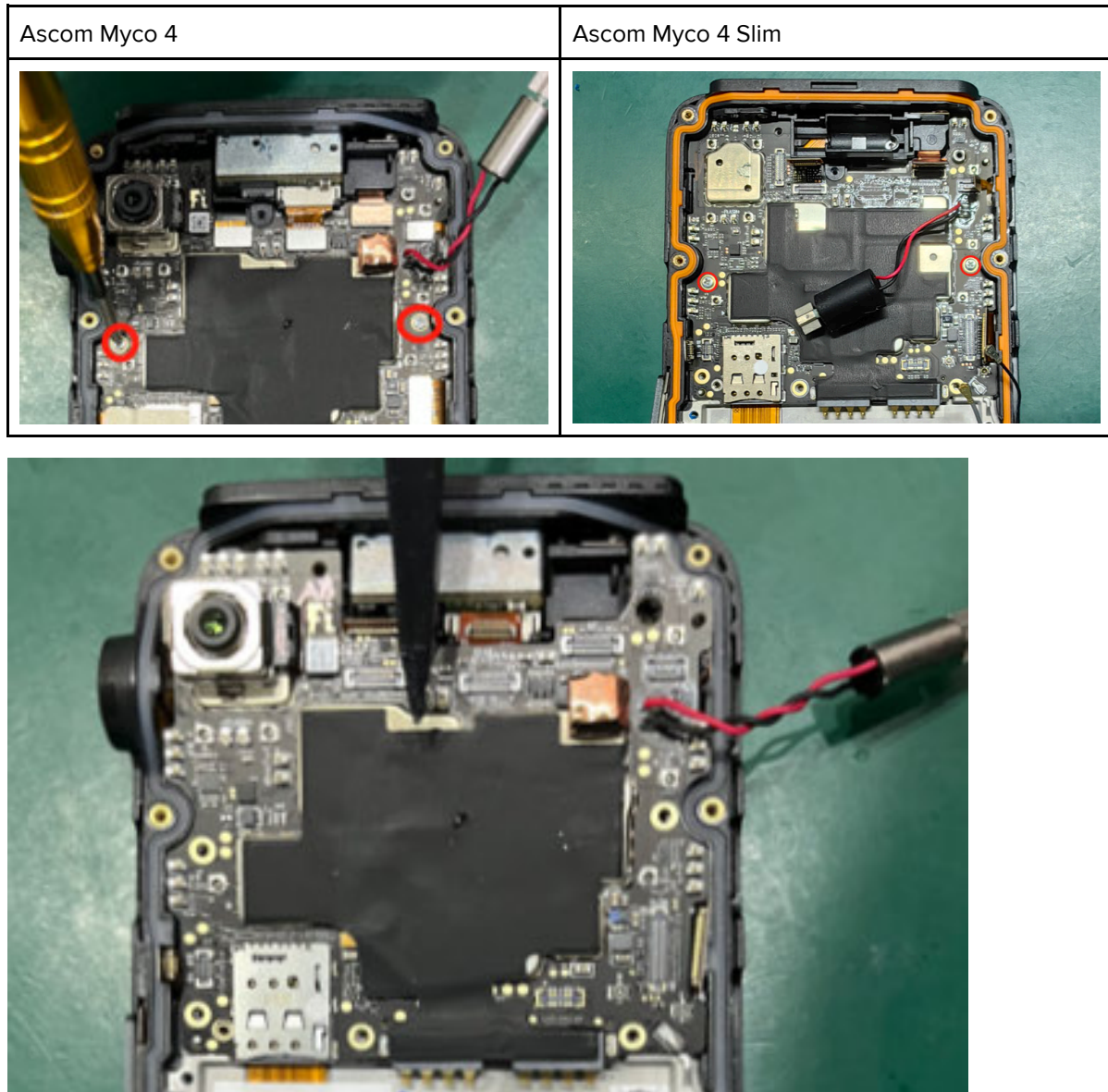


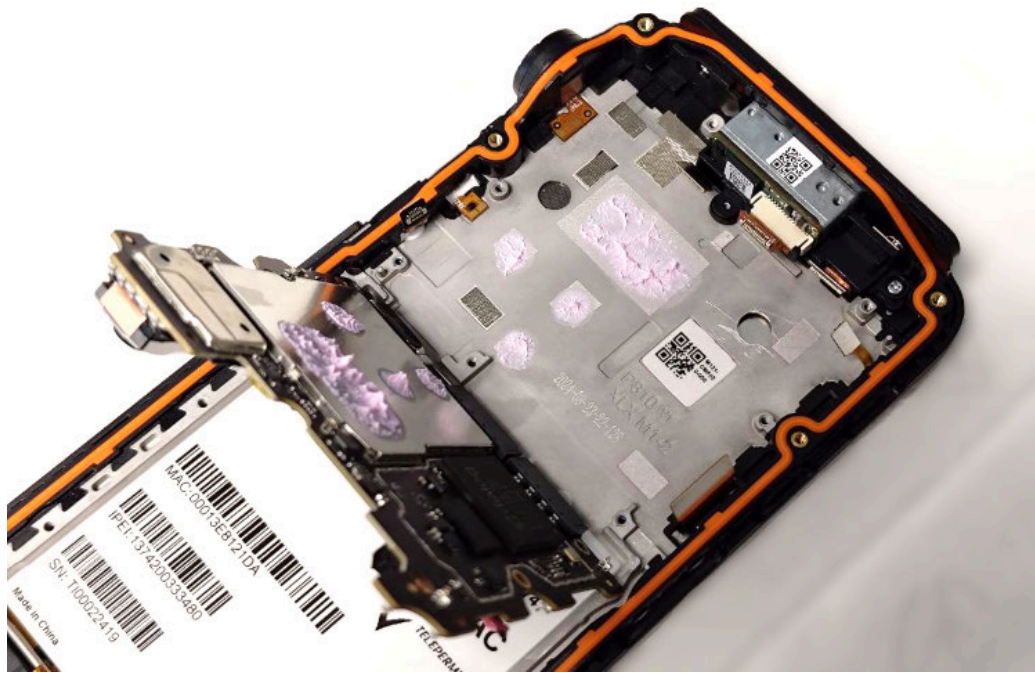
12. Disconnect the RF cable connectors from the main board. NOTE: When assembling, black cable must be reconnected first.





13. Remove the two screws (M1.4x0.3x2.5) using cross screwdriver (1.6 mm). Then detach the main board carefully, and turn it over. NOTE: Take care of all the FPC BTB connectors being carefully passed through.





14. Remove the receiver FPC grounding conductive fabric.

Ascom Myco 4	Ascom Myco 4 Slim

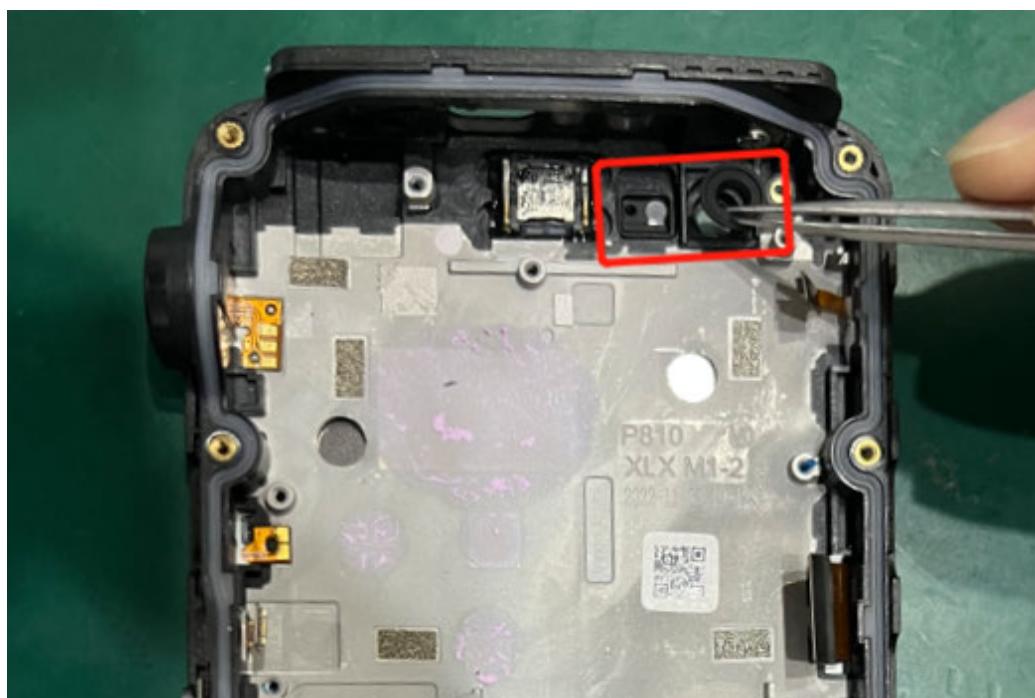
15. Remove the two screws (1pc M1.4x0.53x3.5L, 1pc M1.4x0.3x2.5). Remember the position of each screw when disassembling, and install the screws back in their original positions when assembling. Then carefully remove the receiver bracket.

NOTE: For non-Slim handset variant, protective silicone covers for the barcode scanner and for the IR sensor may detach from their positions during the receiver bracket removal. When assembling, ensure that protective silicone covers are in place.



16. Remove the front camera. NOTE: Silicone gasket for the front camera may detach together with the front camera. When assembling, ensure that silicone gasket for the front camera and silicone cover for the light sensor are in place.

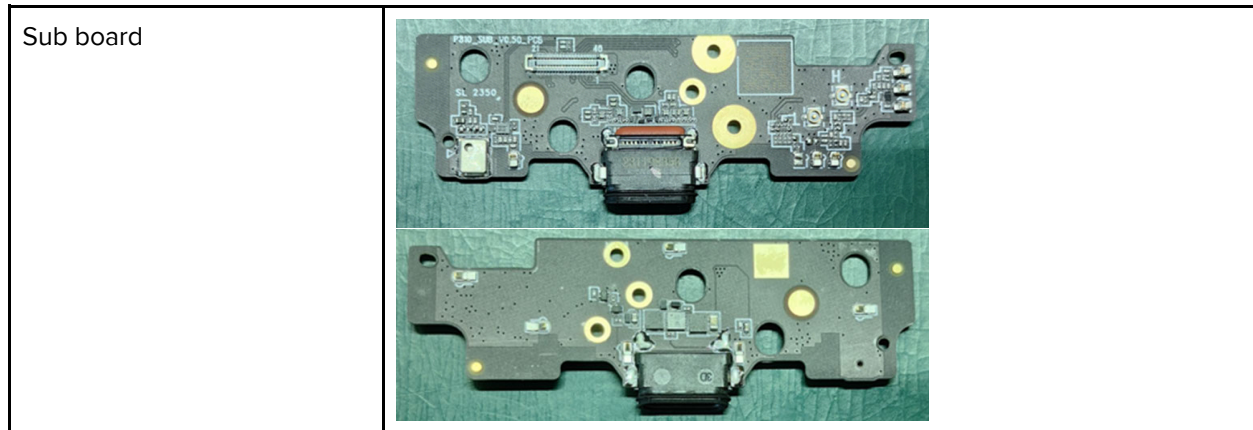






## 7 External Charging Port, External Audio Connector, Main (Bottom) Microphone

This section describes disassembling of the handset to access the sub board, containing external charging port (USB-C), external audio connector (via USB-C), and main (bottom) microphone.




To reassemble the handset, follow these instructions in reverse order.


1. Unlock and remove the battery.



2. For non-Slim handset variant, remove the standard clip label using blade tool. When assembling, use a new clip label.

Ascom Myco 4	Ascom Myco 4 Slim
	N/A

- For non-Slim handset variant, remove the two screws (M2x0.30x3L) using hexagon screwdriver (1.5 mm), and then detach the standard clip.

Ascom Myco 4	Ascom Myco 4 Slim
	N/A

- Remove the four screw silicone plugs using tweezers. NOTE: There are two types of plugs. Remember the position of the upper pair of plugs and of the lower pair of plugs when disassembling, and install the plugs back in their original positions when assembling.  
For Slim handset variant, when assembling, use new back adhesives for the screw silicone plugs.



5. Remove the 14 screws (4pcs M1.6xL5.0, 6pcs M1.6xL4.0, 2pcs M1.6xL6.0, 2pcs M1.6xL4.3) using cross screwdriver (1.6 mm). NOTE: There are four types of screws and some of them have gaskets. Remember the position of each screw when disassembling, and install the screws back in their original positions when assembling. Then detach the back cover.  
NOTE: When assembling the back cover, ensure that sealing tape attached at the bottom of the battery compartment is in place.







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- Remove the five screws (M1.4x0.3x3.0L). Then remove the sub board cover.

Ascom Myco 4	Ascom Myco 4 Slim





8. Disconnect the main FPC BTB connector and the RF cable connectors from the sub board. NOTE: When assembling, black cable must be reconnected first.



9. Remove the screw (M1.4x0.3x2.5). Then remove the sub board.



Appendix A                      Document History

Version	Date	Description
A	01 October 2025	First release.



**Ascom (Sweden) AB**

Grimbodalen 2

SE-417 49 Göteborg

Sweden

Phone +46 31 55 93 00

[www.ascom.com](http://www.ascom.com)

**ascom**