

Service Guide AndiScan A2

Case Replacement

Version V1.0.0 (4.2.2023)

This document describes a device case replacement procedure for AndiScan A2 device.

1 Prerequisites

1. Instructions assume A2 HW version A2.2.*
2. Required tools
 - Screwdriver (+) PH1
 - Tweezers
 - Small plastic/wooden stick



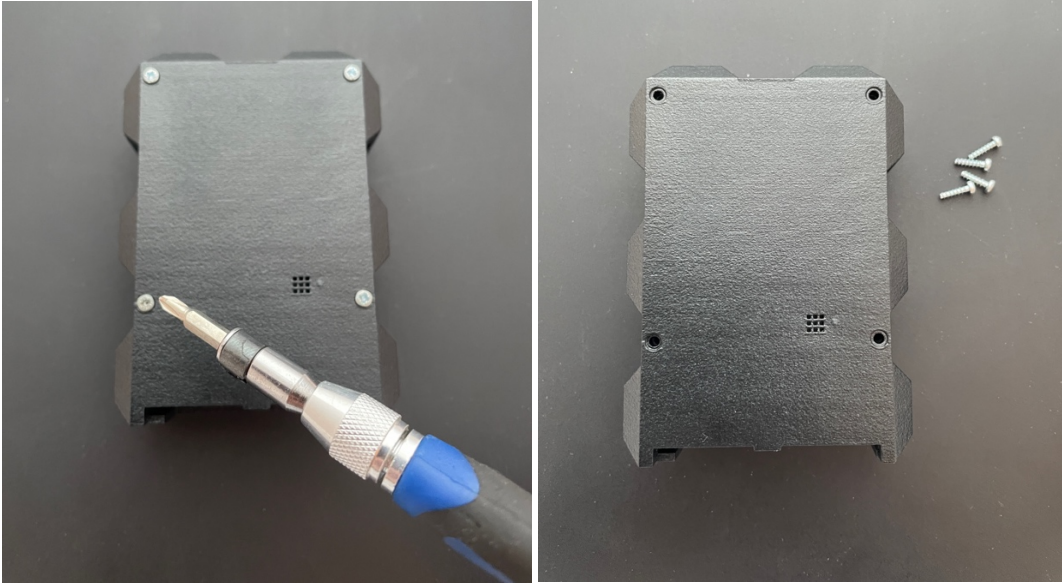
2 Preparation

1. Remove the battery cover and remove the battery

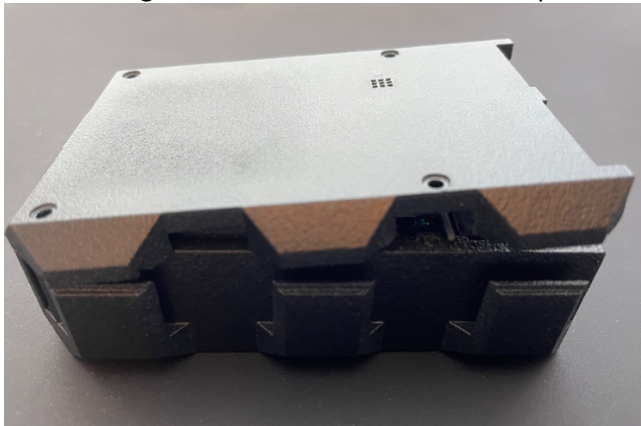


3 Disassembly

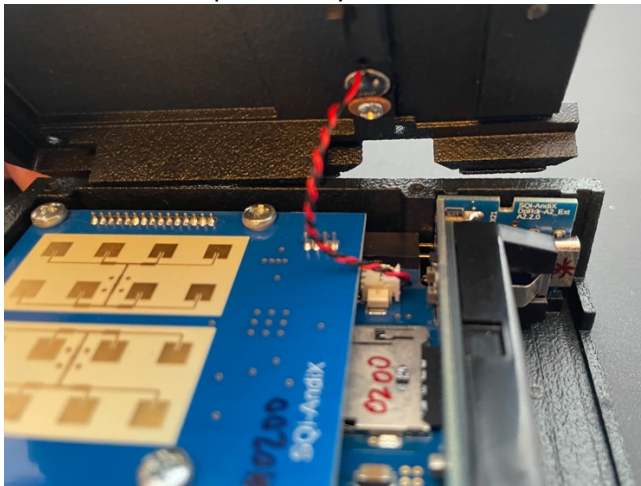
1. Remove case back 4 screws



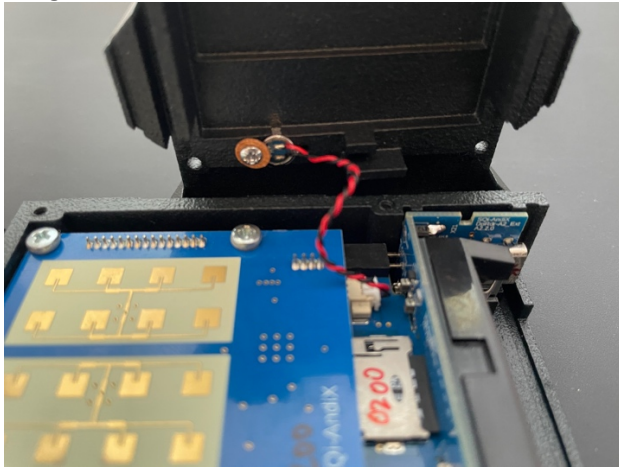
2. Lift the case back
 - Start from the battery opening side. Use fingers put into the battery compartment.
 - Do not go further than it is shown in the picture.



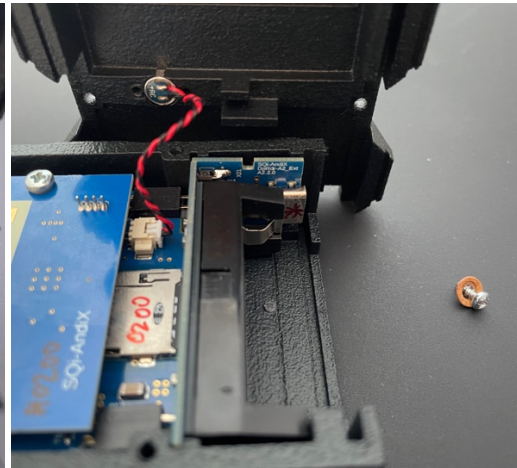
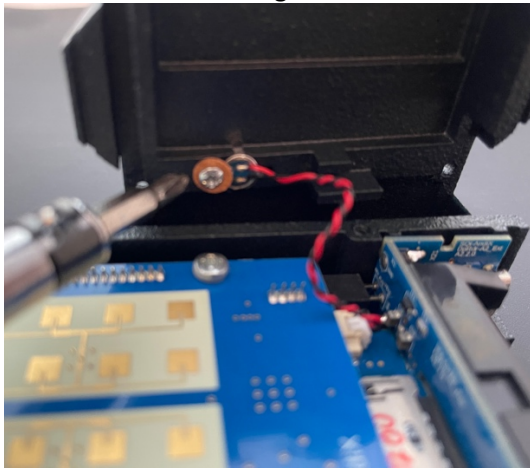
3. Continue lifting the back of the case side-ways
 - (!) Observe the black/red cable between sensor and the main board - do not stress the cable. Be particularly careful on the sensor end of the cable.



4. Gently turn the back of the case by 90 degrees while observing the black/red cable and not stressing it.



5. Unscrew the sensor holding screw.

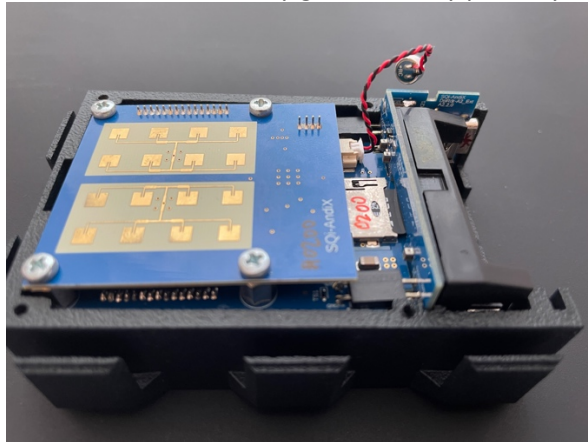


6. Remove the sensor
 - Use the tweezers
 - (!) Hold it gently by the side aluminum walls.
 - Pull it gently out, possible with very gentle rolling movements.

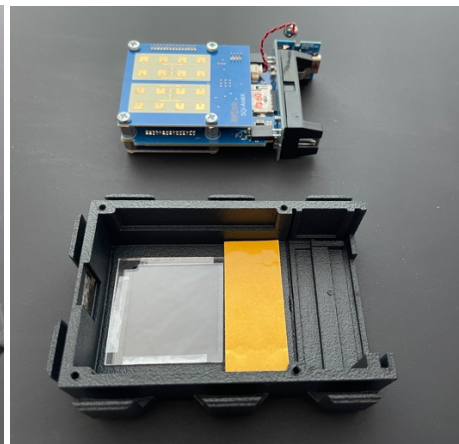


7. Remove the electronics

- Pull it upwards (perpendicularly to the blue/white electronic board).
- Start on the side of the battery holder, use fingers put inside the battery holder, and go about 3-5 mm upwards.
- The electronic blue/white board usually goes out only partially.



- Use plastic stick to help it to go out - however be extremely careful to put only in the place shown in the figure and not putting it deeper than about 2 mm. There are electronic components on the bottom part that could be damaged. Go up to the point where you can hold the blue/white board by the fingers and the continue using fingers.

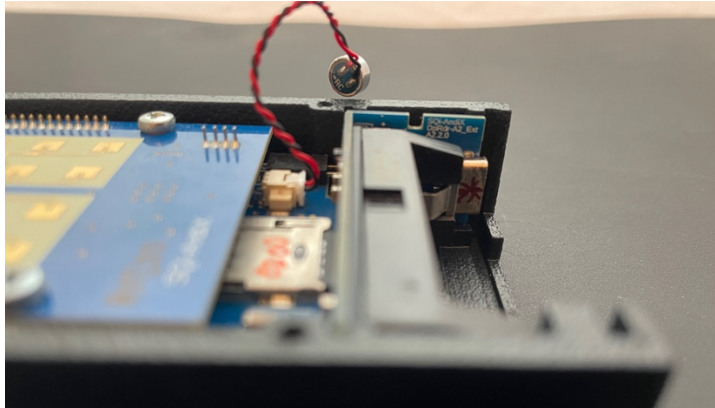


4 Assembly

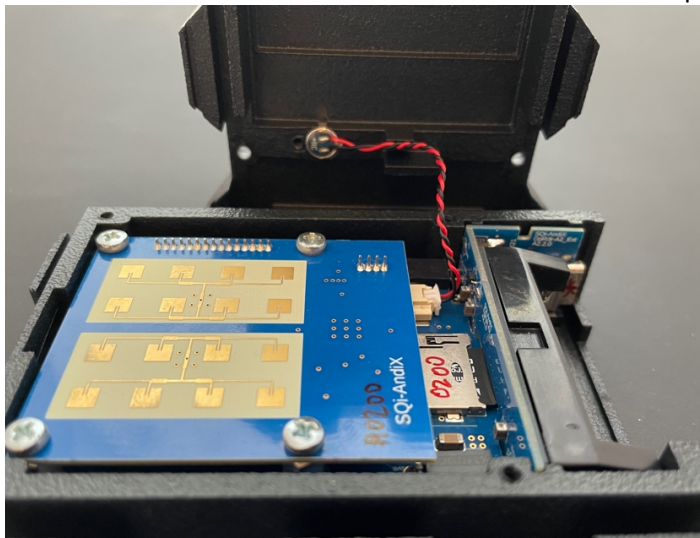
1. The assembly follows the same steps in an opposite order.
2. Slide the electronic inside the case.
 - Make sure the board on the battery holder slides into the notches on sides and the bottom of the case.



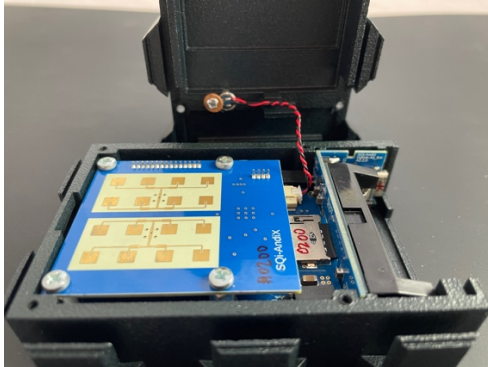
3. Press the electronics gently and evenly on both sides till it is aligned with upper edge of the case.
 - Sometimes, it is necessary to use slightly more pressure on the board holding the USB-C connector to snap it into the notch on the case bottom.



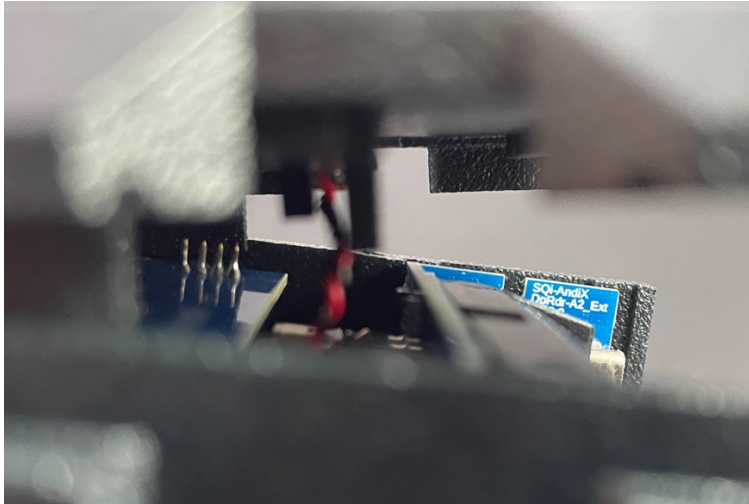
4. Insert the sensor into the slot in the cover back.
 - Push it there very gently using finger.
 - Observe the direction of the cable - it must be in the position as shown in the figure.



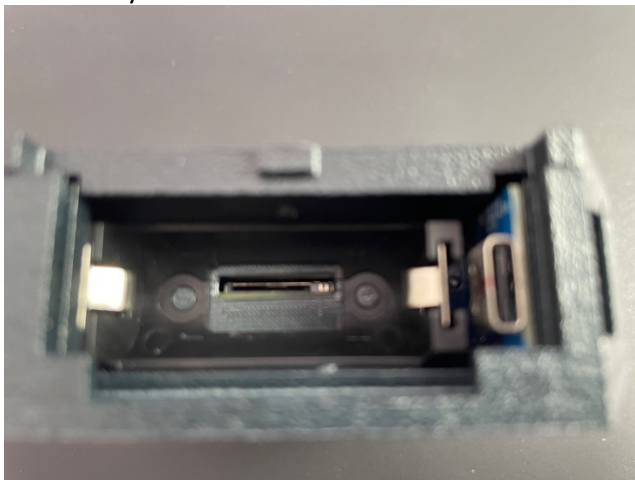
5. Screw in the sensor holding screw
 - Do not forget to use isolating washer!
 - Tight it gently, just make sure the sensor does not move nor rotate freely.



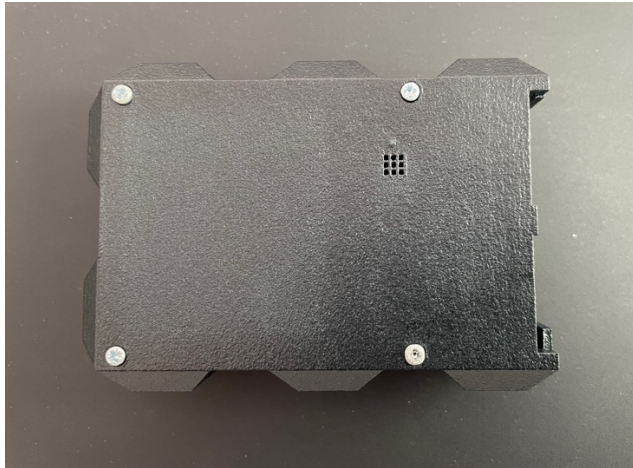
6. Put the case back onto the main case
 - Start on top side of the device (closer to the display) and continue to the side of the battery opening.
 - (!) It is a critical to make sure that the black/red cable fits below the upper blue/white electronic board, i.e. in between the upper and middle electronics boards and that it does not get into the SD card slot opening.



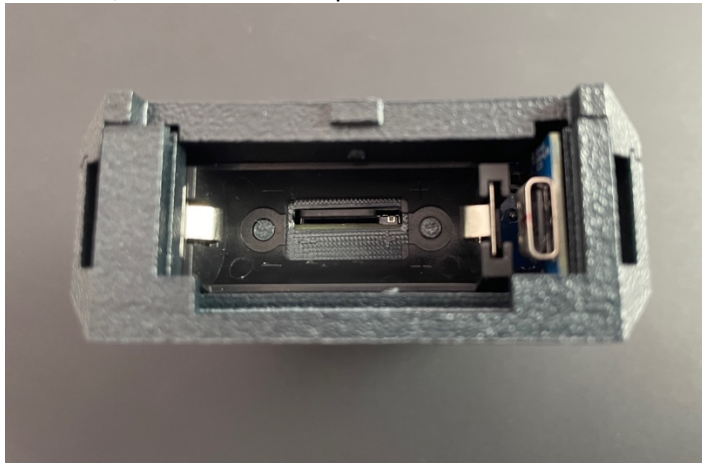
- Also the black/red cable must not get squeezed between the plastic back case pillar and the SD card metallic holder. Verify it by observing the SD card opening from the battery holder side.



7. Tight the back case screws

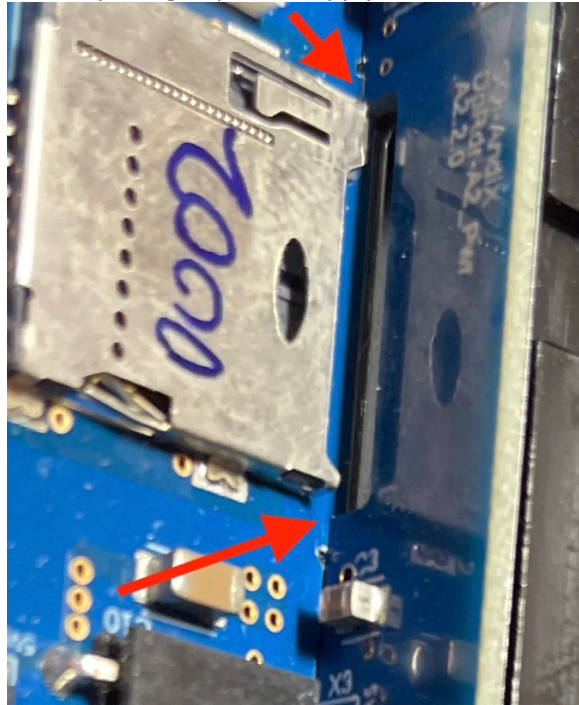


- Tight them gently while observing that the main and the back part of the case are correctly fitting each other.
- Also, double check that the SD card can freely move in and out from the SD slot and the black/red cable is not squeezed there.



5 Additional notes

1. In the step 4.5, fitting the small screw with the isolation washer could be a bit tricky. A screwdriver with magnetic tip makes that much easier.
2. After the disassembly phase, when the electronics is removed out, make sure the power supply board (at the battery holder bottom) does not get disconnected from the main electronics board (the one which holds the SC card slot). These boards should be tightly attached one to the other. The main board must be properly inserted into the SD card opening of the power supply board. The key outing on the edge of the main board must protrude about 0.5 mm into the opening of power supply board.



3. A soft rubber tape (yellow part in the picture) that covers the keys in the case must be kept as it is. It allows for small tolerances in the mutual position of the case/buttons and the electronic switches on the main board. When it is new, it may take some time for the soft rubber material to accommodate to the new position of the switches. During that time, the key could run a bit stiffer or might be mechanically coupled.

