reMarkable Paper Tablet 1 - RM100 Battery Replacement

This guide is intended to help those whose...

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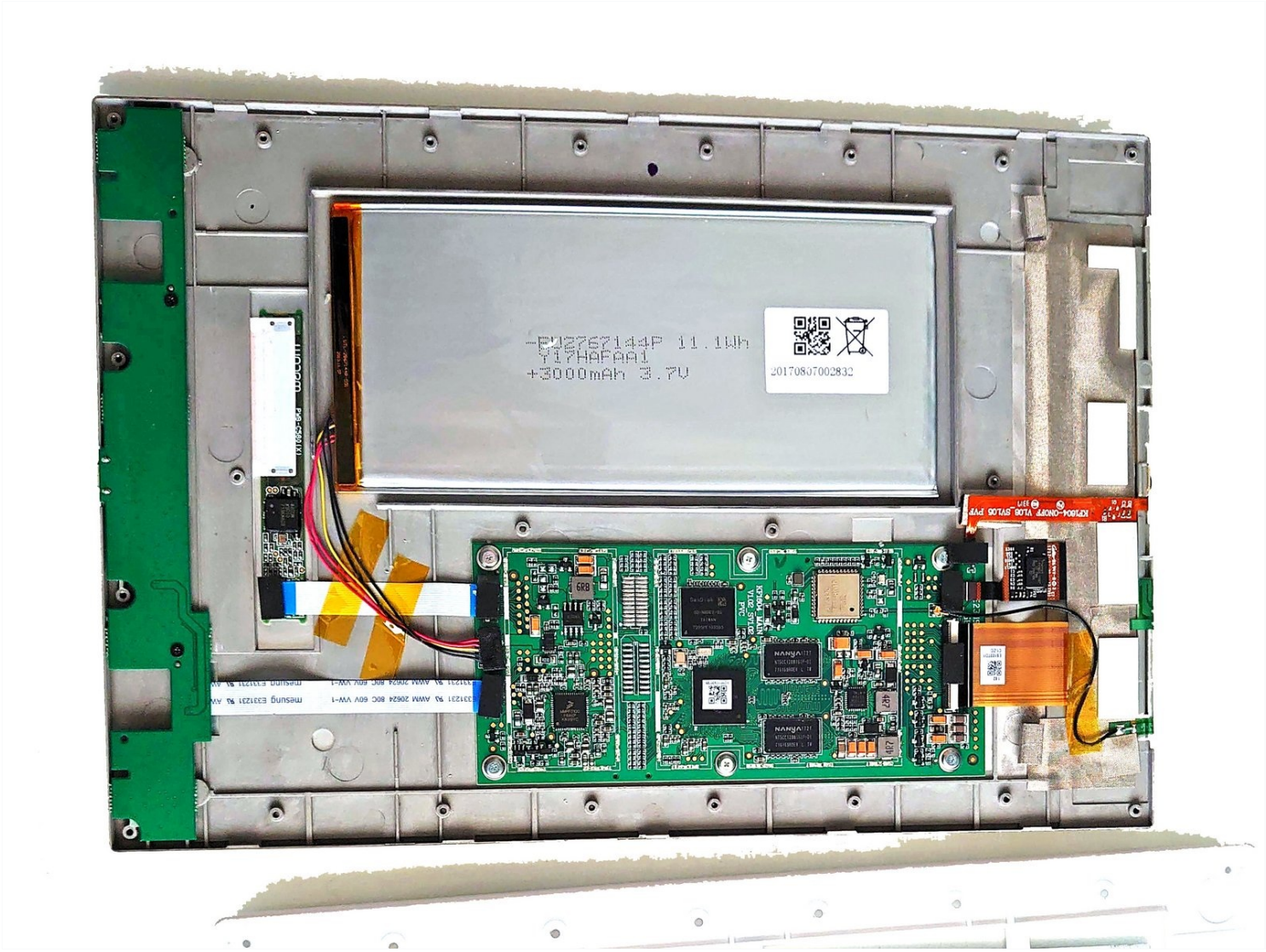


INTRODUCTION

This guide is intended to help those whose reMarkable is no longer supported by the manufacturer, so only begin this repair if you have exhausted all other possible means to get the device fixed by the original manufacturer!

Because the aluminum backplate of the device is glued to the plastic frame it is very difficult to remove and put back. I would not recommend starting the repair without the proper tools and some prior fixing experience.

I do not take any responsibility for damages done by following this guide and as I stated above, first try connecting with official reMarkable support!

TOOLS:

Phillips #00 Screwdriver (1)
iFixit Adhesive Remover (1)
Spudger (1)

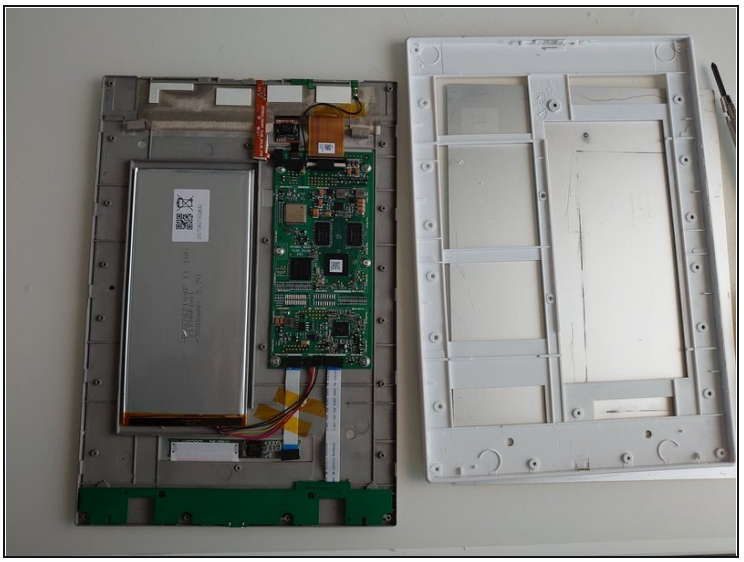
Step 1 — Remove back rubber lines

- First, make sure that your reMarkable is completely turned off before you start the repair process.
- **Warning: Do not let the display come in contact with alcohol or any solvent containing alcohol as this may damage the device.**
- Remove both the bottom and top rubber strips. It will reveal 6 small Philips head screws underneath.
- Remove all 6 screws.

Step 2

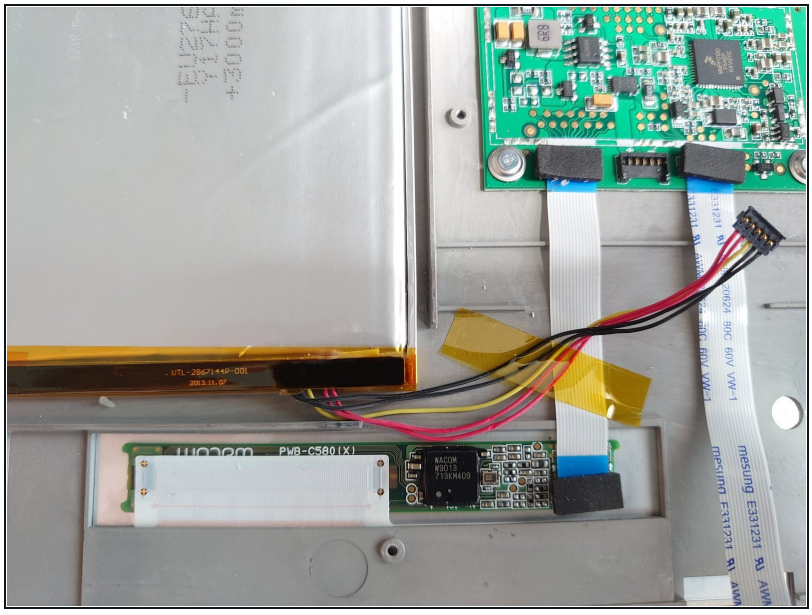
- The aluminum backplate is glued to the device and you will need a good prying tool to be able the separate the back from the plastic holder.
- The glue is holds all 4 sides together, the glue also runs vertically and down the middle.
- The hardest part is to start somewhere on the backplate where there is a big enough gap (between the backplate and the device) to put a prying tool in without bending the aluminum back.
- Start from one of the upper corners. Slowly and carefully remove the aluminum back plate with a prying tool that is durable enough and can fit between the backplate and the device.

Step 3 — Remove plastic frame



- There are 6 screws on both sides and 3 in the middle upper part. Remove all (6+6+3)15 screws. (The bottom 2 screws do not need to be removed).
- After the screws are removed the plastic frame can be separated from the main logic board holding frame. THERE'S ALSO SOME GLUE/FILLER BETWEEN THE 2 PARTS! So be mindful when separating the two pieces.

Step 4 — Remove battery

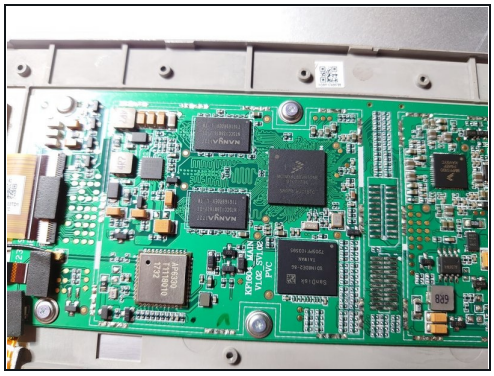


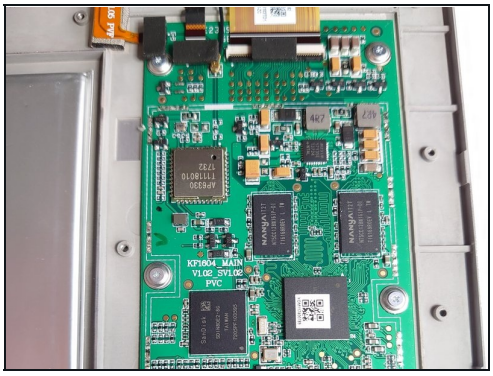
- Pull/pry the battery connector upwards to detach it from the mainboard.

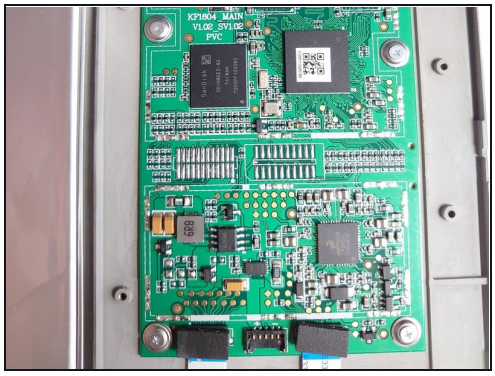
Step 5 — Replace the battery

- Use similar battery to replace the original.
- The battery is held in place by some glue. Use a durable tool to remove the battery from its place.

Step 6 — Replacement of main board

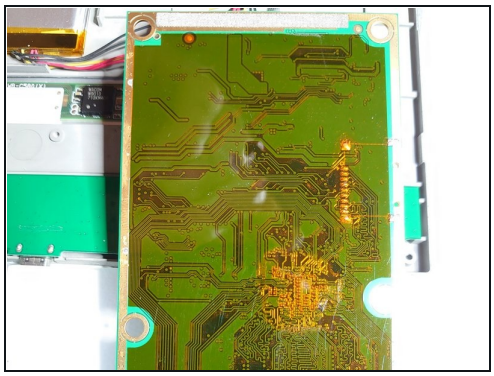
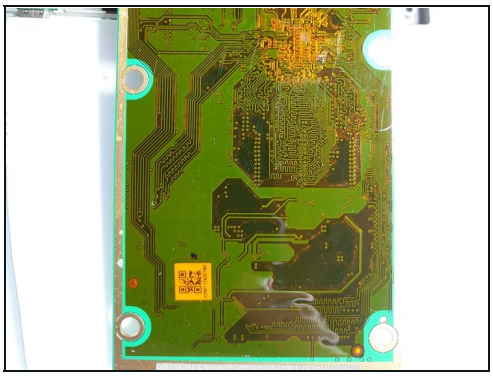
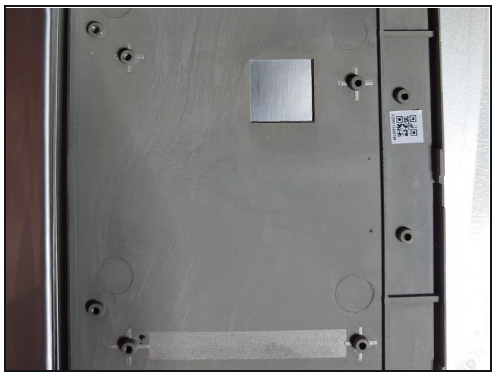






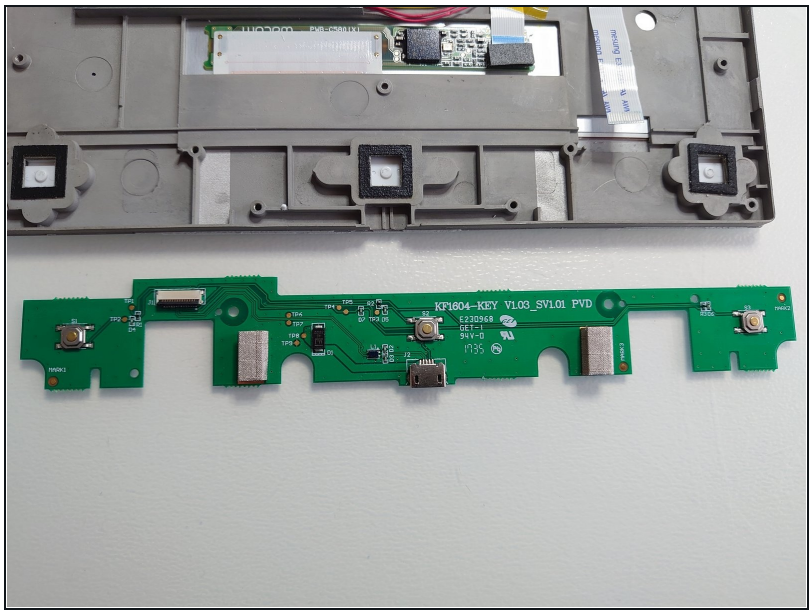
- Remove all connectors if you want to replace the mainboard. All connectors work similarly - you need to turn up the black / back part of the connector and pull out the cables. The **two exceptions** are the battery connector which simply needs to be pulled or pried upwards. Same for the WiFi coax connector.
- There are 6 screws with special washers that are holding the main board to the frame.

Step 7 — Mainboard other side

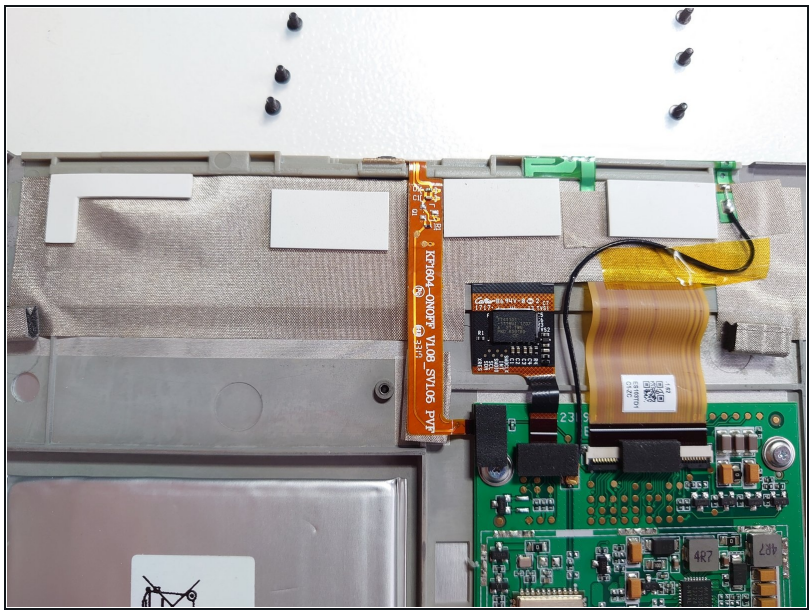
- Interestingly, even the other side of the mainboard contains some elements near the CPU which require a semicircle hole cut into the frame... interesting design decision.

Step 8 — Removal of the USB / button panel



- Remove the 2 screws that are holding the button/USB panel in place.
- Disconnect the ribbon cable from the panel by turning/pulling up the black/back part of the connector (see picture)

Step 9 — Power button



- Illustration on how the power button and WiFi cable are connected to the upper part of the mainboard.

To reassemble your device, follow these instructions in reverse order.