



TV Remote Control Shell/Case (RC-28FX-2 V1.1)



Sedak

[VIEW IN BROWSER](#)

updated 10. 10. 2023 | published 10. 10. 2023

Summary

custom plastic shell/case of a TV Remote (board RC-28FX-2 V1.1)

[Household](#) > [Living Room](#)

Tags: [replacement](#) [tv](#) [remote](#) [remotecontrol](#)
[replacementpart](#) [tvremote](#)

| BASIC DESCRIPTION |

- this is a plastic shell for a universal TV remote (board code RC-28FX-2 V1.1)
- link to amazon page with the same tipe of TV remote:

<https://www.amazon.sa/-/en/Replacement-Remote-SKYWORTH-Universal-Smart/dp/B096MDL93Q>

- in my country (Croatia) it is commonly used in sets for DVB-T receivers, MaxTV, EVO TV and other subscriptions that require a receiver
- so my TV remote for a receiver broke practically in half (only the plastic parts, the electronics were fine) - the options were to buy the whole set with the receiver that I did not need or to buy it from abroad, pay for shipping and wait 1 week, not to mention I would toss

away a perfectly usable board...I decided non of it was a good option and I started to design my own shell for the circuit board

| DESIGN DECISIONS |

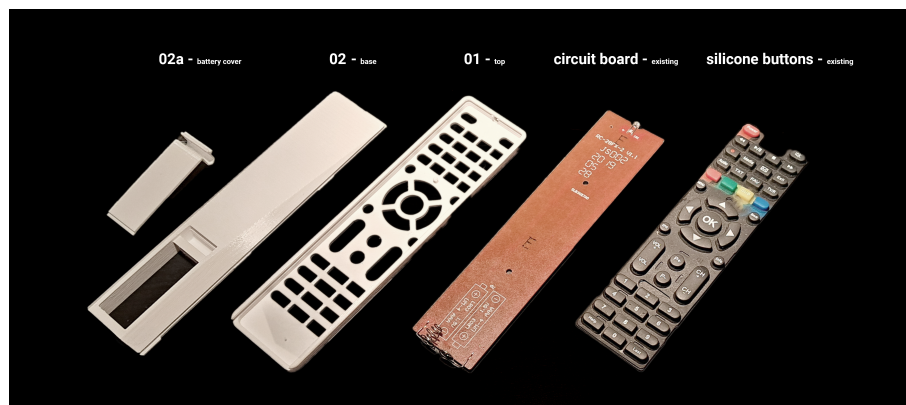
- it is a simple design, the premisse was that it had to be easy and fast to print
- also it had to be easy to assemble and disassemble if needed - no glue and no additional screws

| PRINT SETTINGS |

- usually I do not like to include 3mf or GCODE files because I do not know what kind of printer/filament/general setup do you use, SO BE CAREFUL WHEN USING THIS 3MF FILE - CHECK WITH YOUR OWN SETTINGS SO YOU DON'T BREAK ANYTHING ON YOUR MACHINE!
- no supports are needed
- **General settings:**
 - **0,10 - 0,20 mm** layer height - depends on your preference
 - **10%** Cubic infill - it should be enough
 - brim (if you think you need it)
 - 3 perimeters

| ASSEMBLY |

- there are 3 files that you need to print (**01_Top, 02_Base, 02a_Base_battery cover**), one optional part that you can print (**00_Test fit**), and you will need some parts from your old TV remote (**circuit board - with springs, and silicone buttons**)



1_Test fit

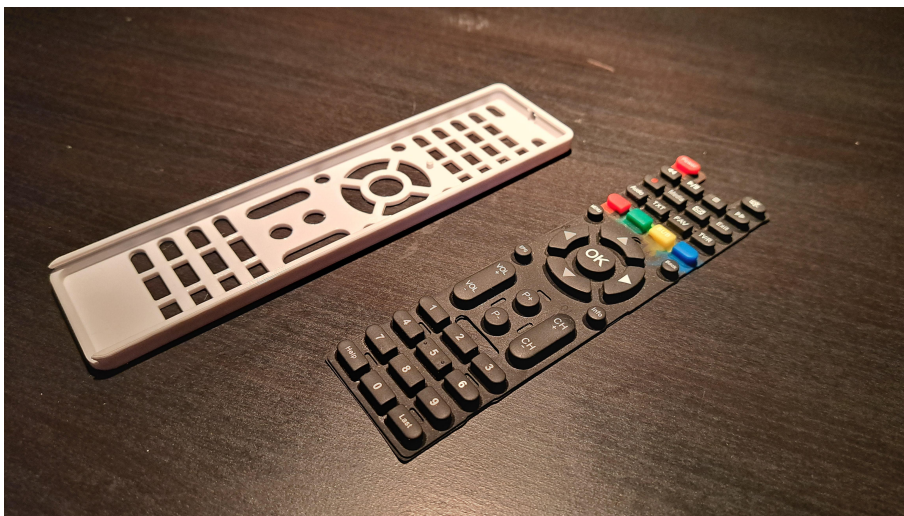
- this step is optional if you are not sure that the shell will fit your controler
- for this step you will need to print 00_Test fit
- place the silicone button onto the 00_Test fit part and try to push the buttons through the hole

- this saves time, filament and frustrations down the road
- if it goes in smoothly, that the rest should also fit



2_Top part

- for this step you will need 01_Top part, circuit board and the silicone buttons



- place the silicone buttons inside the 01_Top part, make sure that all the buttons have gone through the holes and that the center aligning pin (on 3D printed part) is protruding through



- next you can put the circuit board in its place



3_Bottom part

- for this step you will need 02_Base part and springs for one battery side

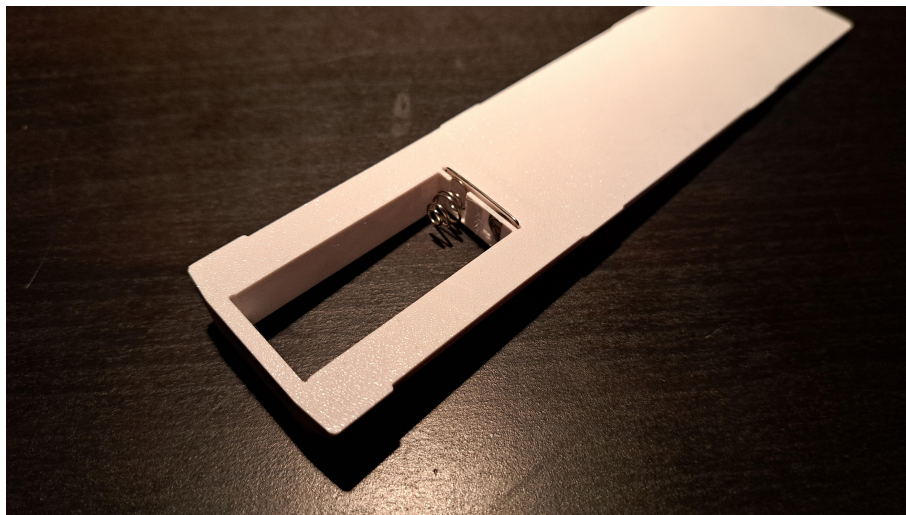


- in the part there is a small strip between the pillars that secure the spring and make it easier for printers to print the part - you will have

to break one or bouth of these for the springs to go through (it depends on the design on your TV remote)



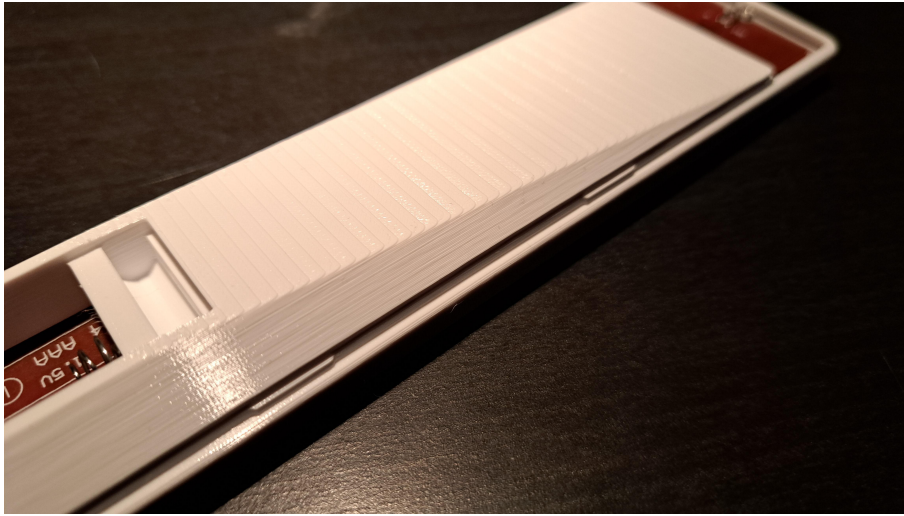
- after that its just a matter of putting the spring to the right place



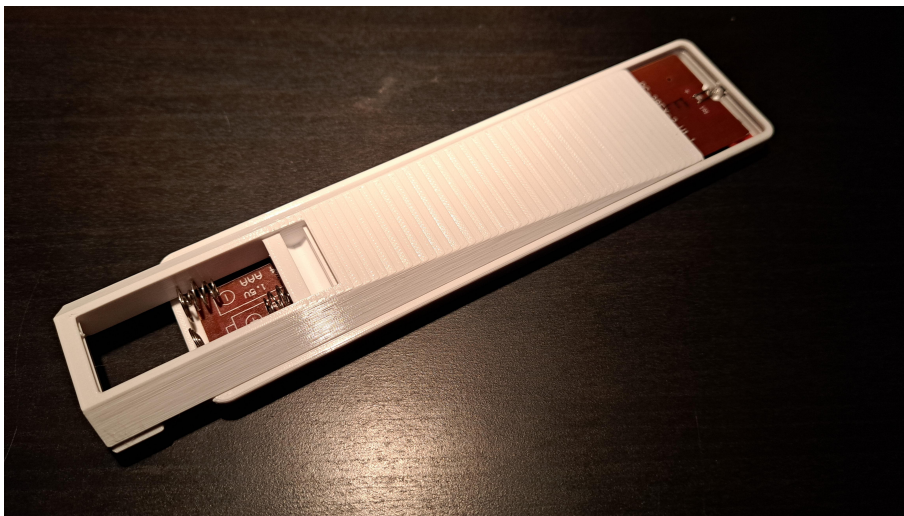
4_Connecting the two parts

- now we will connect the bottom and the top part
- put the bottom part on top of the top part with 2 of the flaps of the bottom part slid into the top part - but slightly slide it to the bottom so that the bottom flaps are outside of the top part

- the bottom part has 6 flaps on its sides, 3 on each with 2 bottom ones being slightly wider - these ones should be outside



- take the parts and slightly push the other side of the bottom part inside the top part so that the 2 flaps click into the groove

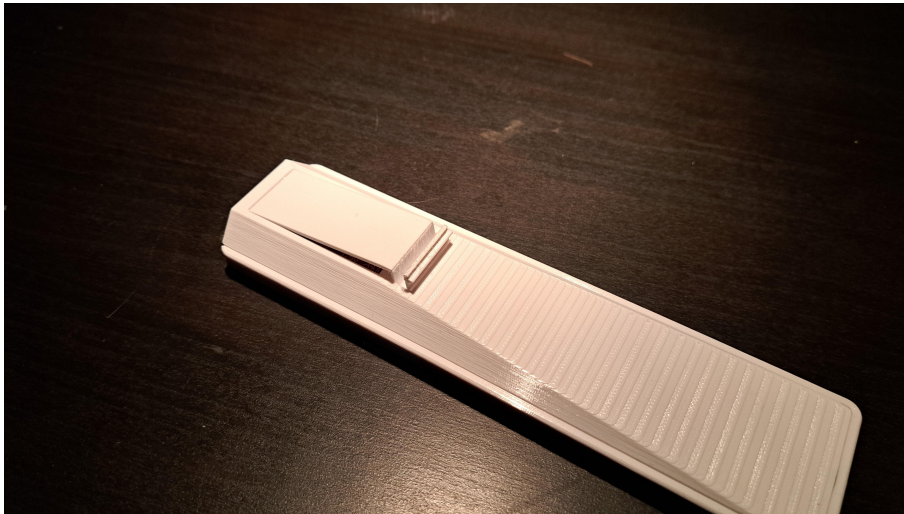
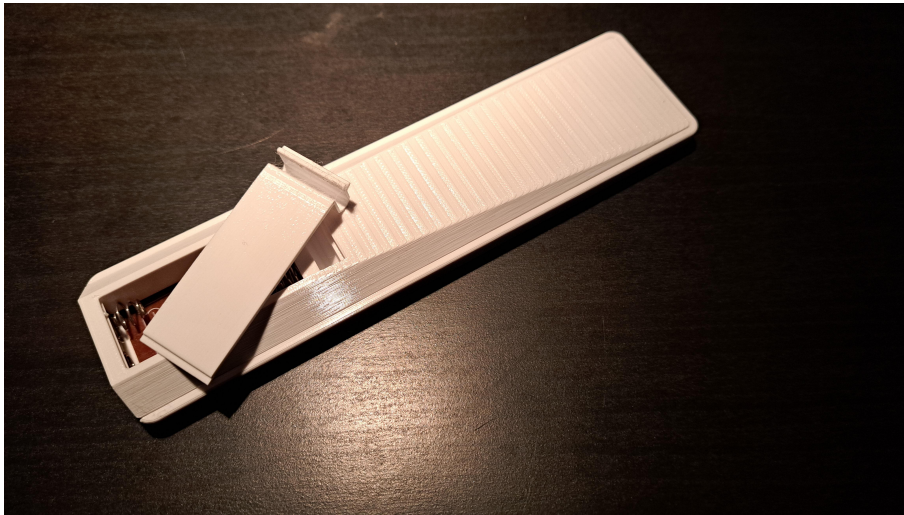


- after that you can slide the bottom part the rest of the way into the top part



4_The lid

- the battery cover has a slit on the bottom where it can be pushed and then you can just push it into the groove on the top



- if you need to open it, you can just pull the lever back and take it off



That is it - do not throw away you TV remote just yet! ;)



Model files



3mf

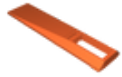
4 files

00_test_fit.3mf





01_top.3mf



02_base.3mf



02a_base_battery-cover.3mf



stl

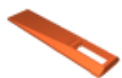
4 files



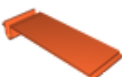
00_test_fit.stl



01_top.stl



02_base.stl



02a_base_battery-cover.stl

License ©

This work is licensed under a
[Creative Commons \(4.0 International License\)](https://creativecommons.org/licenses/by-nc-sa/4.0/)



Attribution—Noncommercial—Share Alike

- ✗ | Sharing without ATTRIBUTION
- ✓ | Remix Culture allowed
- ✗ | Commercial Use
- ✗ | Free Cultural Works
- ✗ | Meets Open Definition