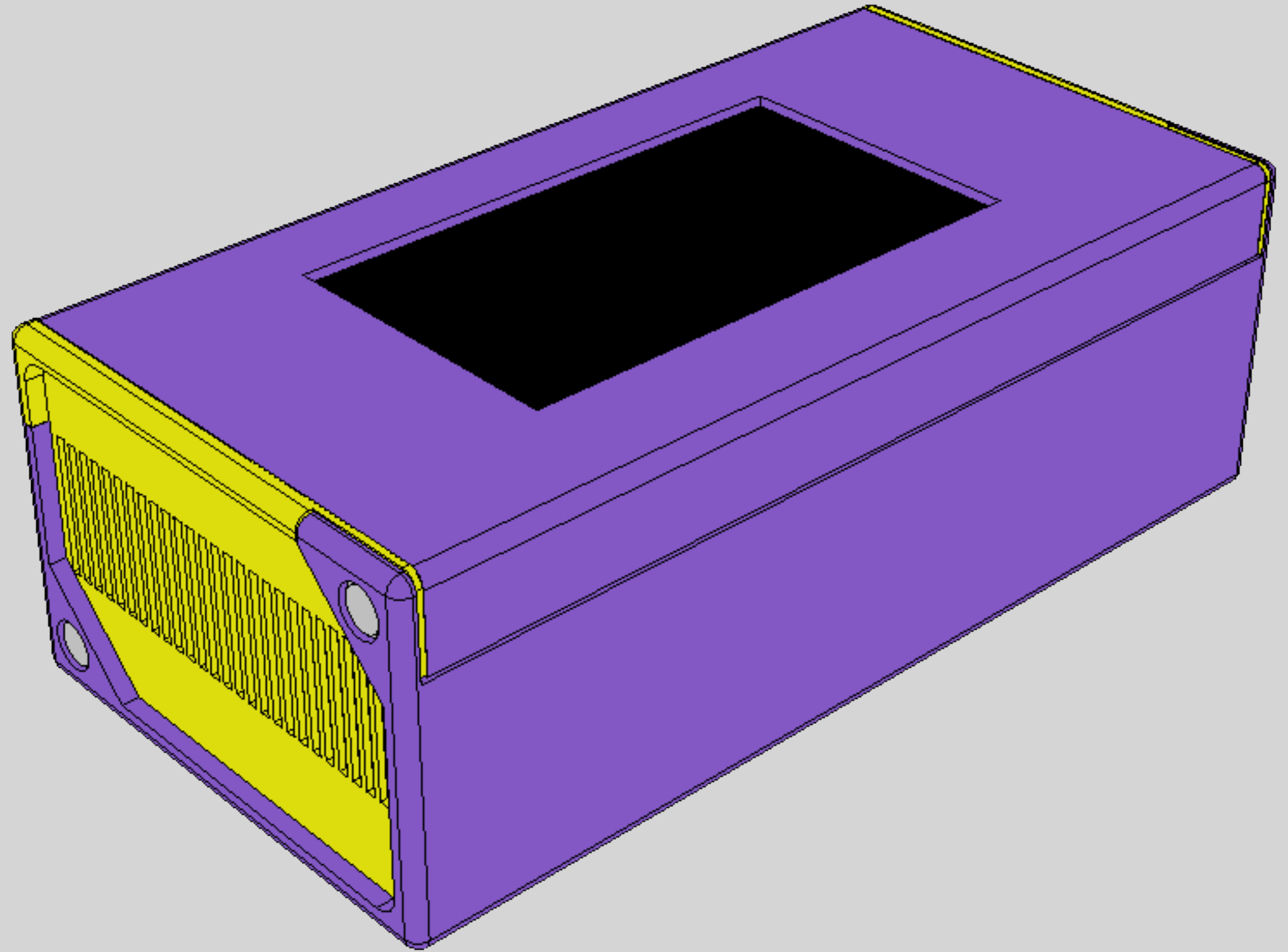


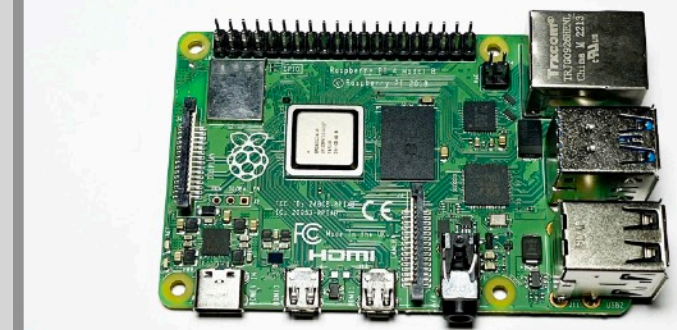
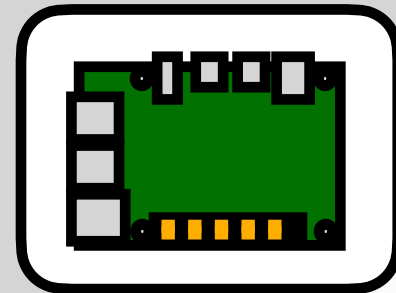
Assembly and operating manual **ROCKEBILLY BOX**



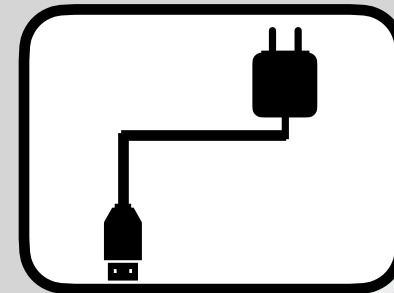
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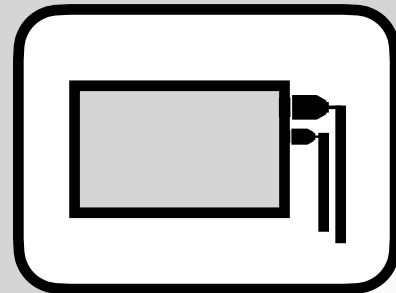
Items of delivery



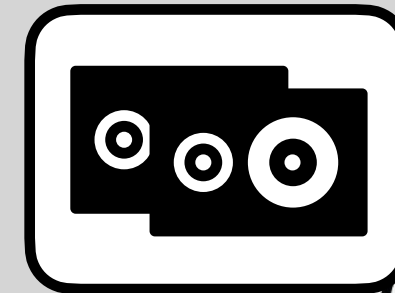
1x Raspberry Pi 4



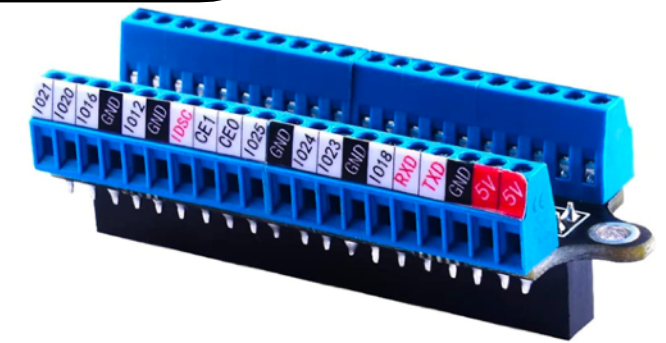
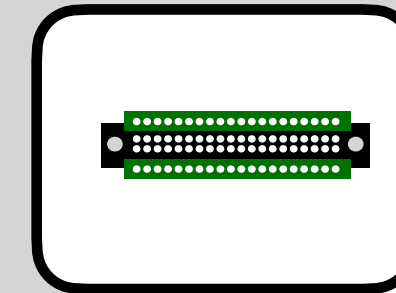
1x Power Supply



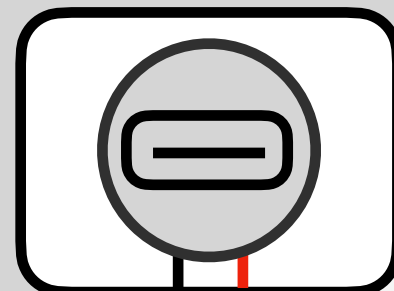
1x Touchscreen incl. cable



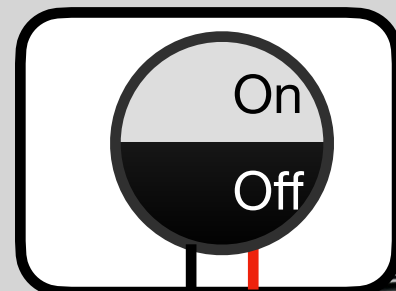
1x USB Speaker



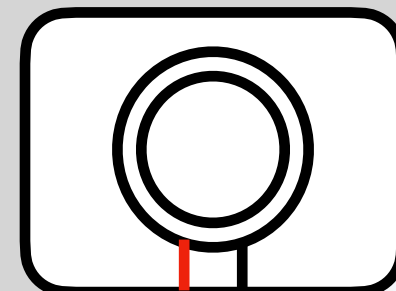
1x Breakout board



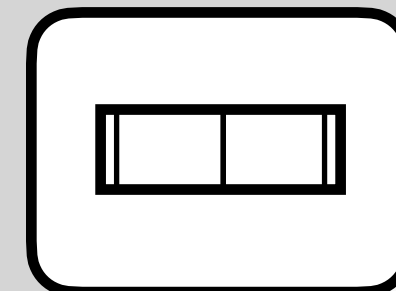
1x USB-C Port



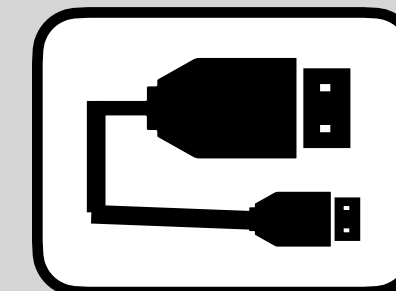
1x On/Off Switch



4x Push button

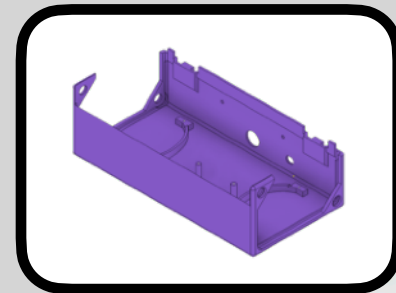


1x cable clamp

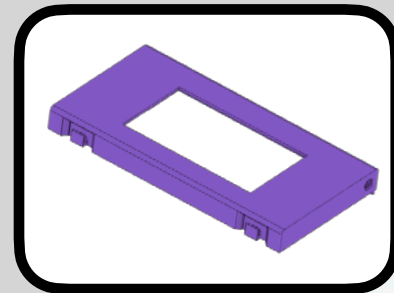


1x HDMI to MicroHDMI cable

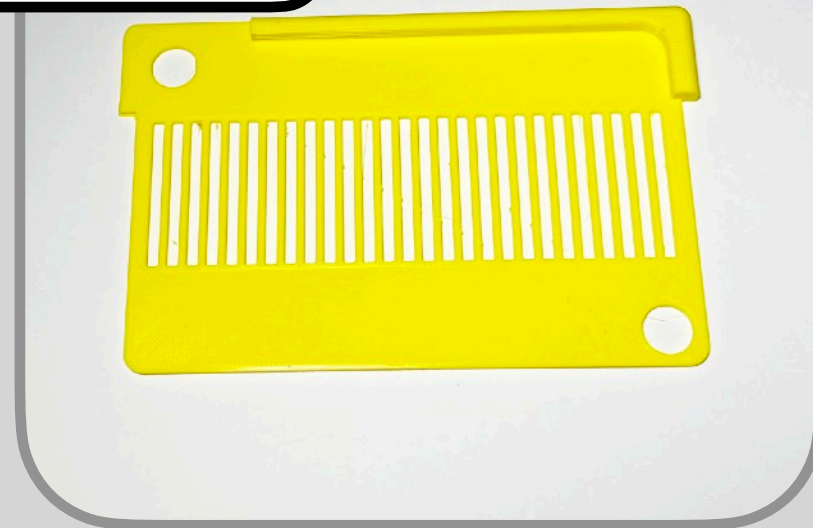
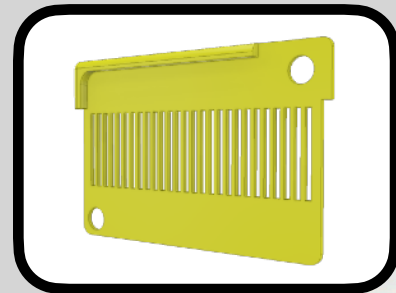
Items of delivery



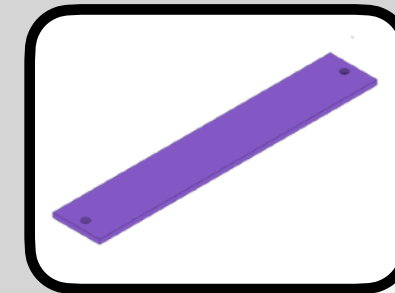
1x Box



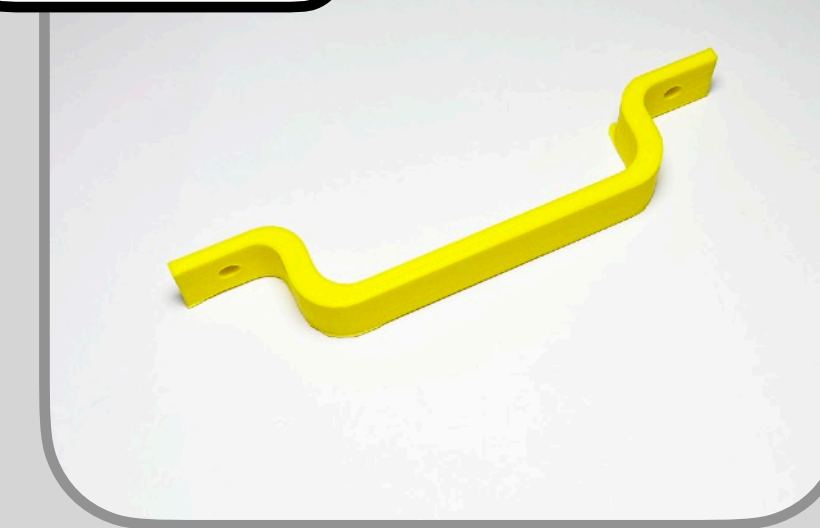
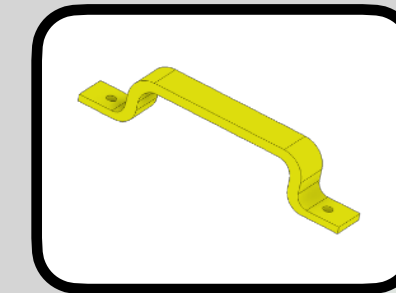
1x Top



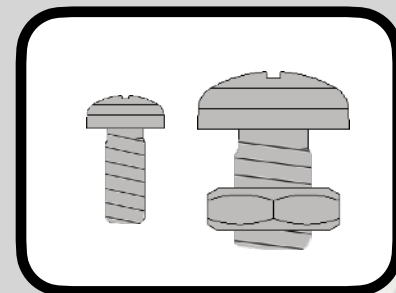
2x Sides



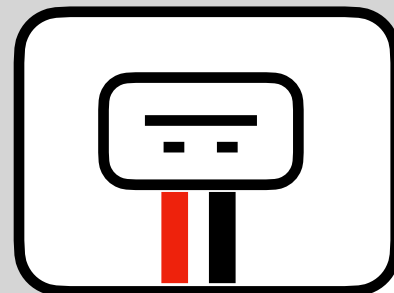
2x Speaker mount



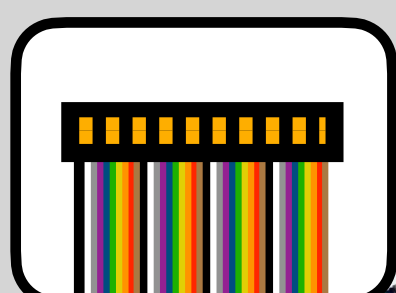
1x Handle



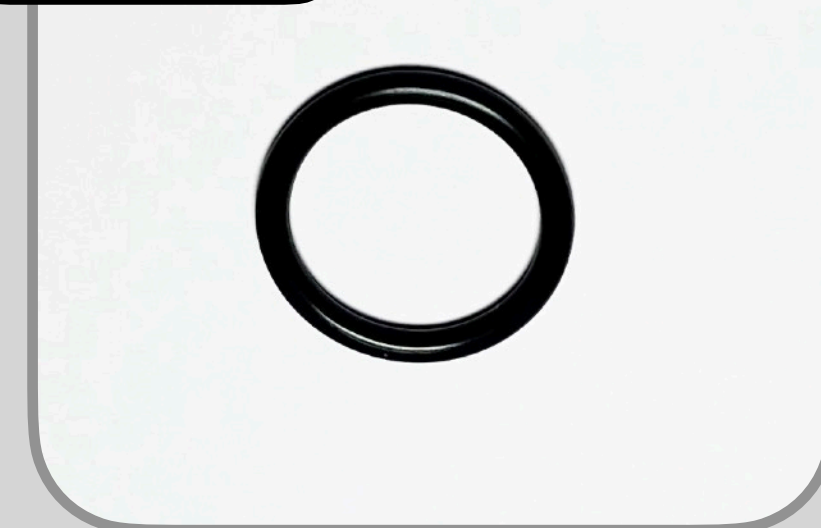
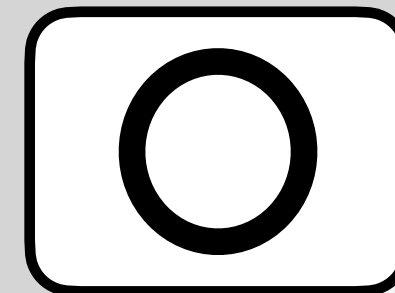
8x M2,5 Screw
4x M2,9 Screw
2x M4 Screw + Nut



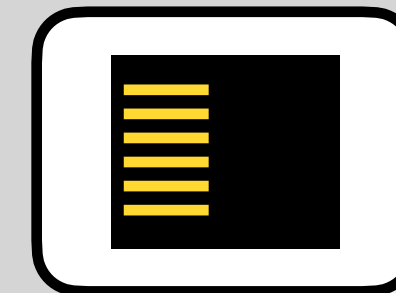
1x USB-A Port



1x Ribbon cable



2x Rubber ring



1x SD card

Before we get started: Help me improve the box

I always want to improve the experience with the Rockebilly Box. So it would be great if you could tell me any problems, criticism, suggestions and praise.

Please send me (Simon) voice messages (you can also type) via Whatsapp/Signal or Telegram to +49 176/0064536. Here are the 6 questions/topics that I'm most interested in - one message per question please. Please also write if you had no problems at all with the assembly.

Did you have problems with a particular assembly step? Did you also watch the video instructions?
Did you have problems connecting the box to Wi-Fi or creating a Rockebilly account? Watched the video instructions?
Is anything in the user interface of the box or on <https://www.rockebilly.com> not/difficult to understand?
Were you able to play anything on the box?
Do you think your child could operate the box on their own? Or can it already do so? Please also tell me the age of the child.
Do you have any suggestions for improvements or features you would like to see on the box? What do you like, what don't you like?

That's enough now, let's go..... Have fun and good luck

Assembly

This chapter shows you step by step how to set up the box.

If you want to design your box yourself and just want to know how to wire everything up, just take a look at the wiring diagram at the end of these instructions.

Send us a photo of your box to service@rockebilly.com.

Das Kapitel als Videotutorial 

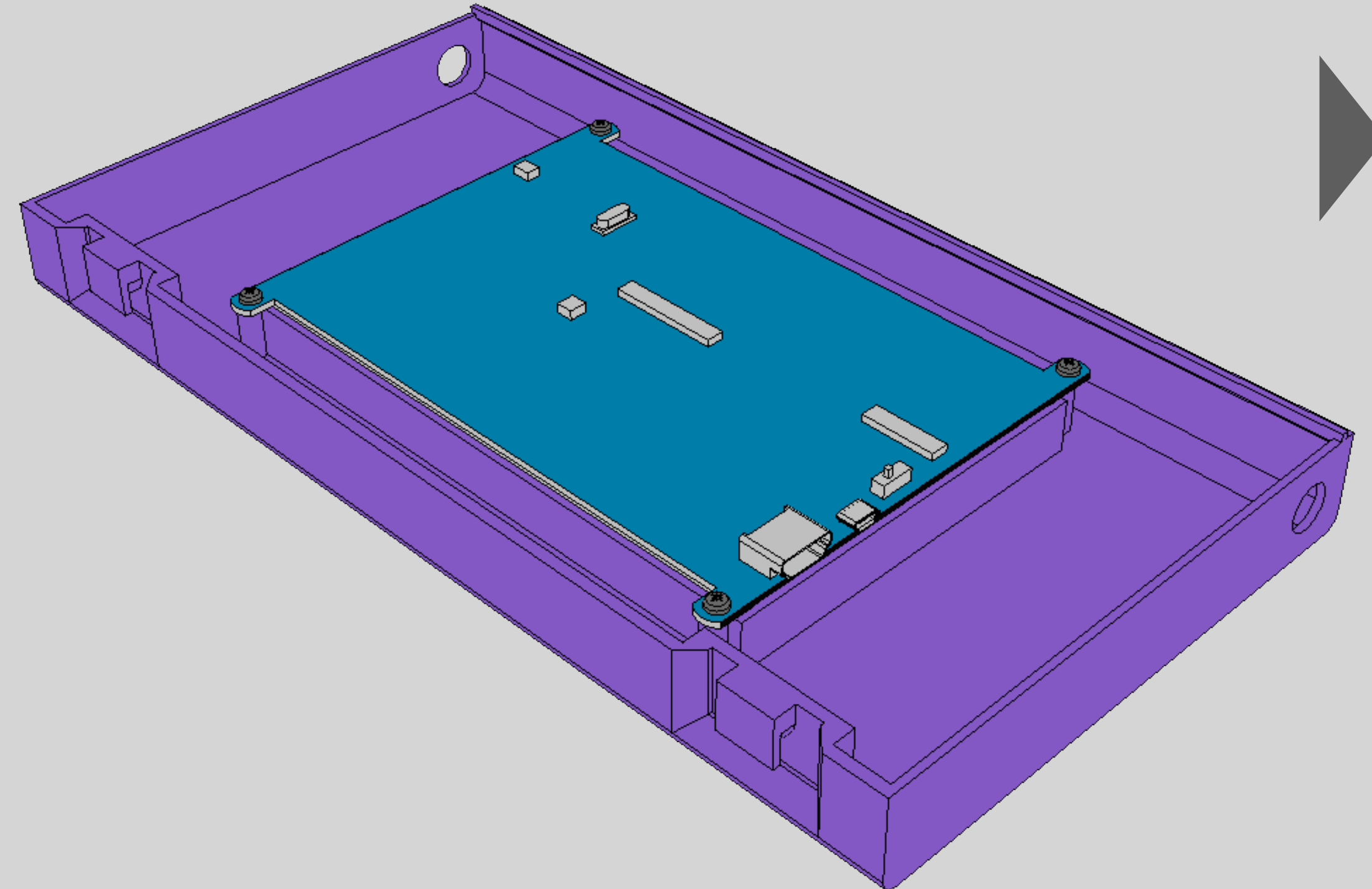
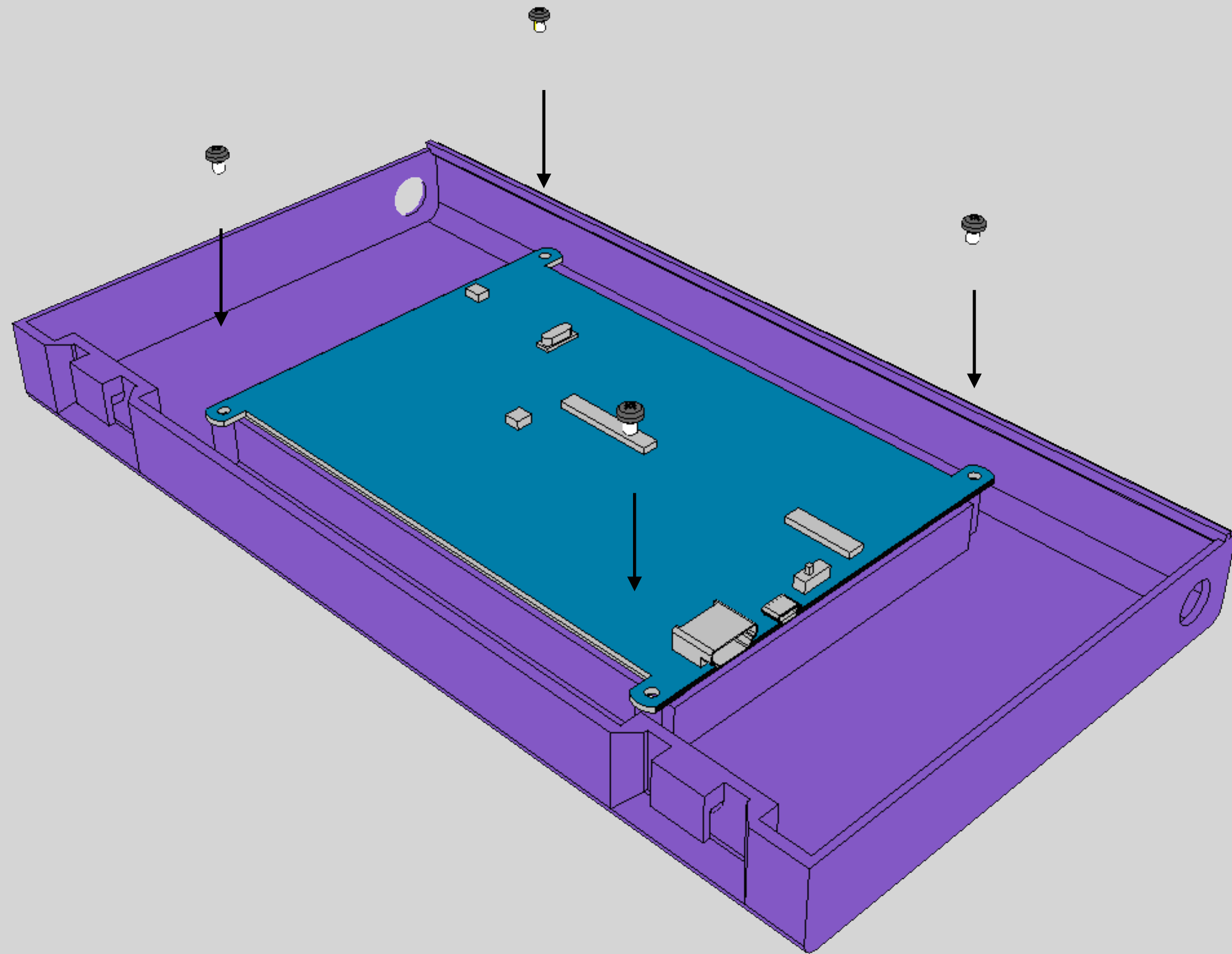
<https://youtu.be/8Q4x6Xlkxlc>

Assembly

1. Attach touchscreen to top cover



Attach the touchscreen to the cover using the 4 M2.5 screws. Hint: The midsized ones. You have four of them.

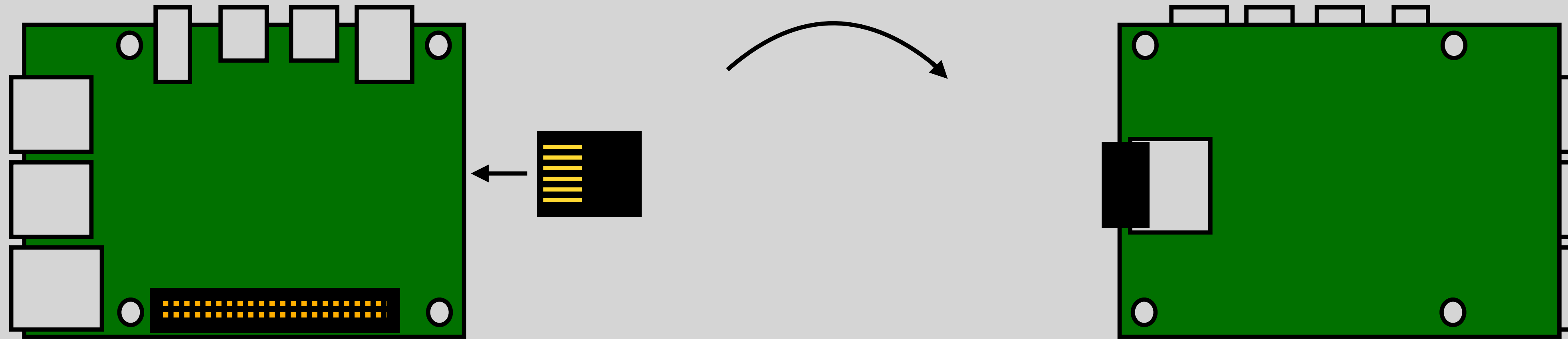


Assembly

2. Insert SD card



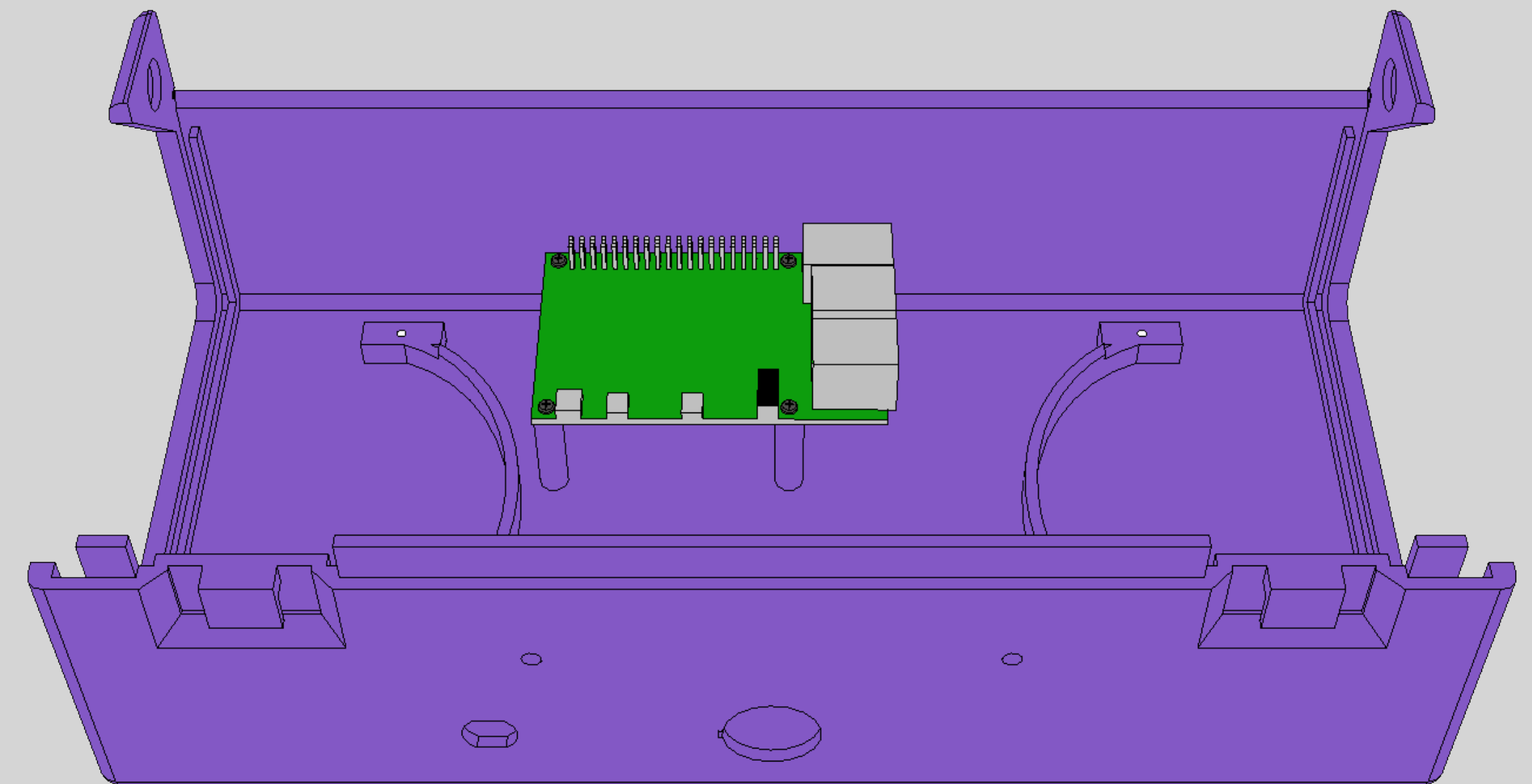
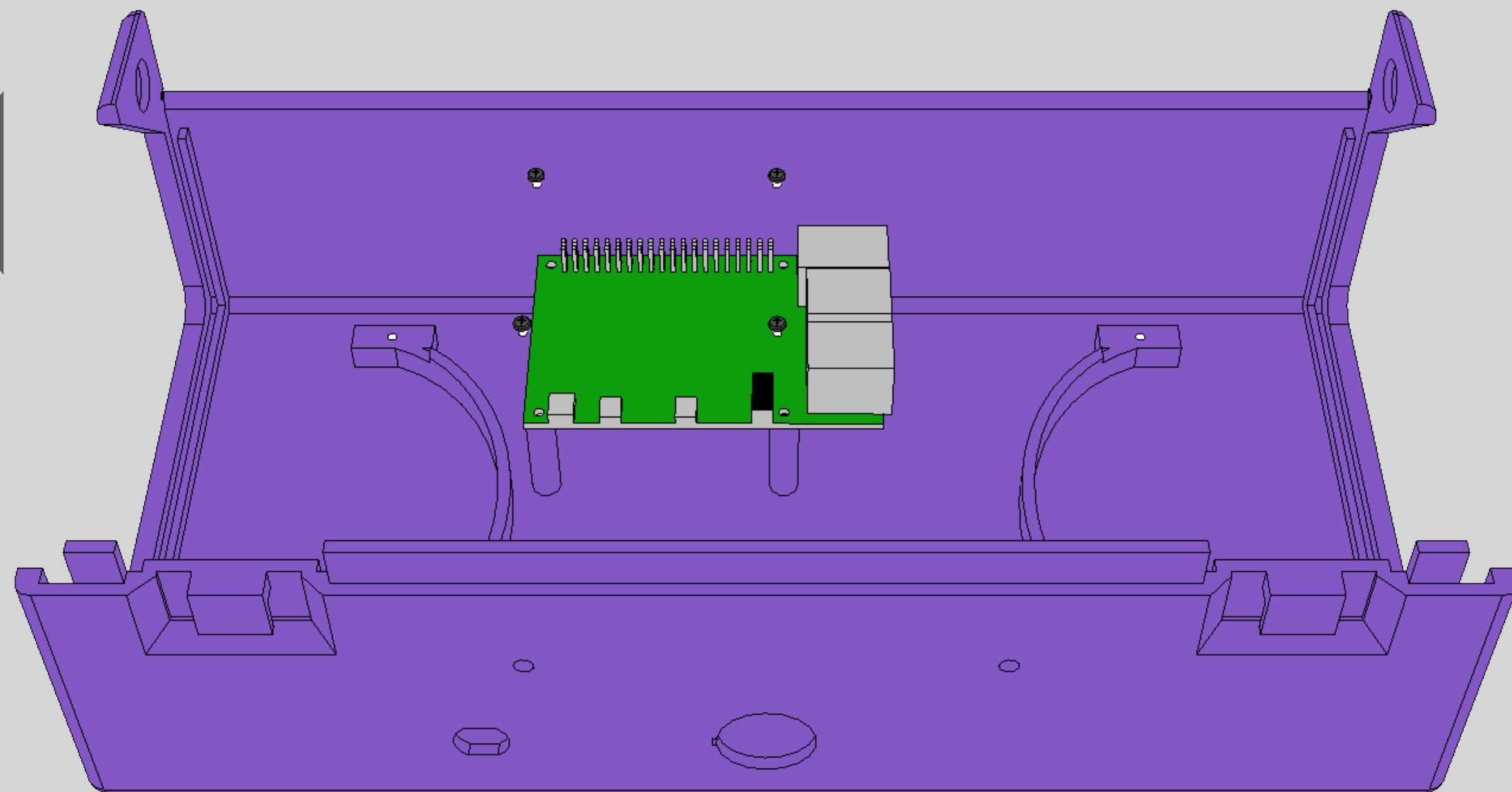
Insert the DS card into the RaspberryPi. The slot for this is located on the back.



Assembly

3. Place the raspberry into the box

Place the box in front of you so that you are looking at the two holes on one long side. Place the Raspberry Pi in the box. Secure it with 4 M2.5 screws. Hint: The little ones. You have eight of them.

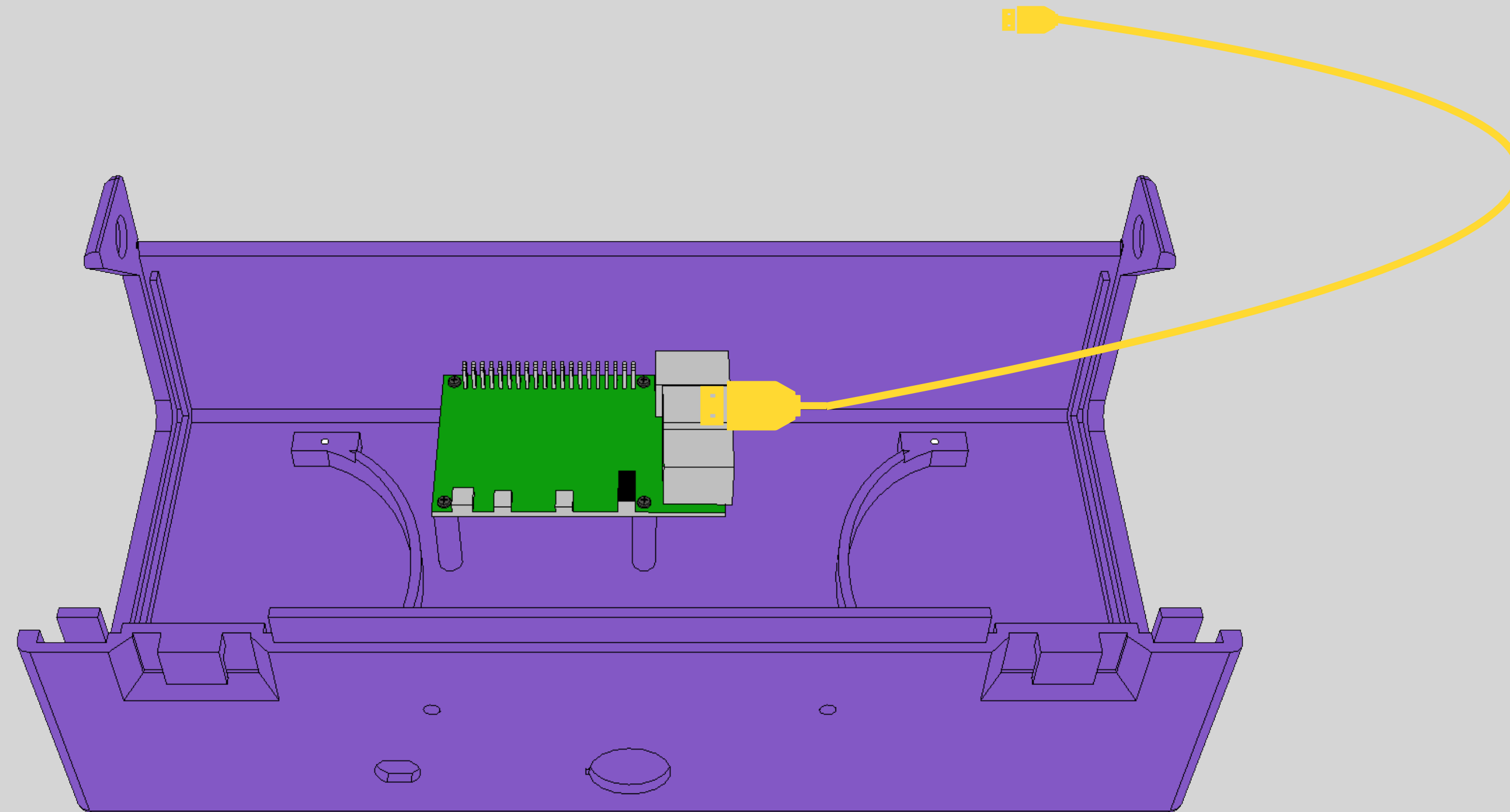


Assembly

4. Plug the MicroUSB-to-USB cable of the display into the Raspberry



Plug the MicroUSB cable into the USB-A port of the Raspberry Pi.

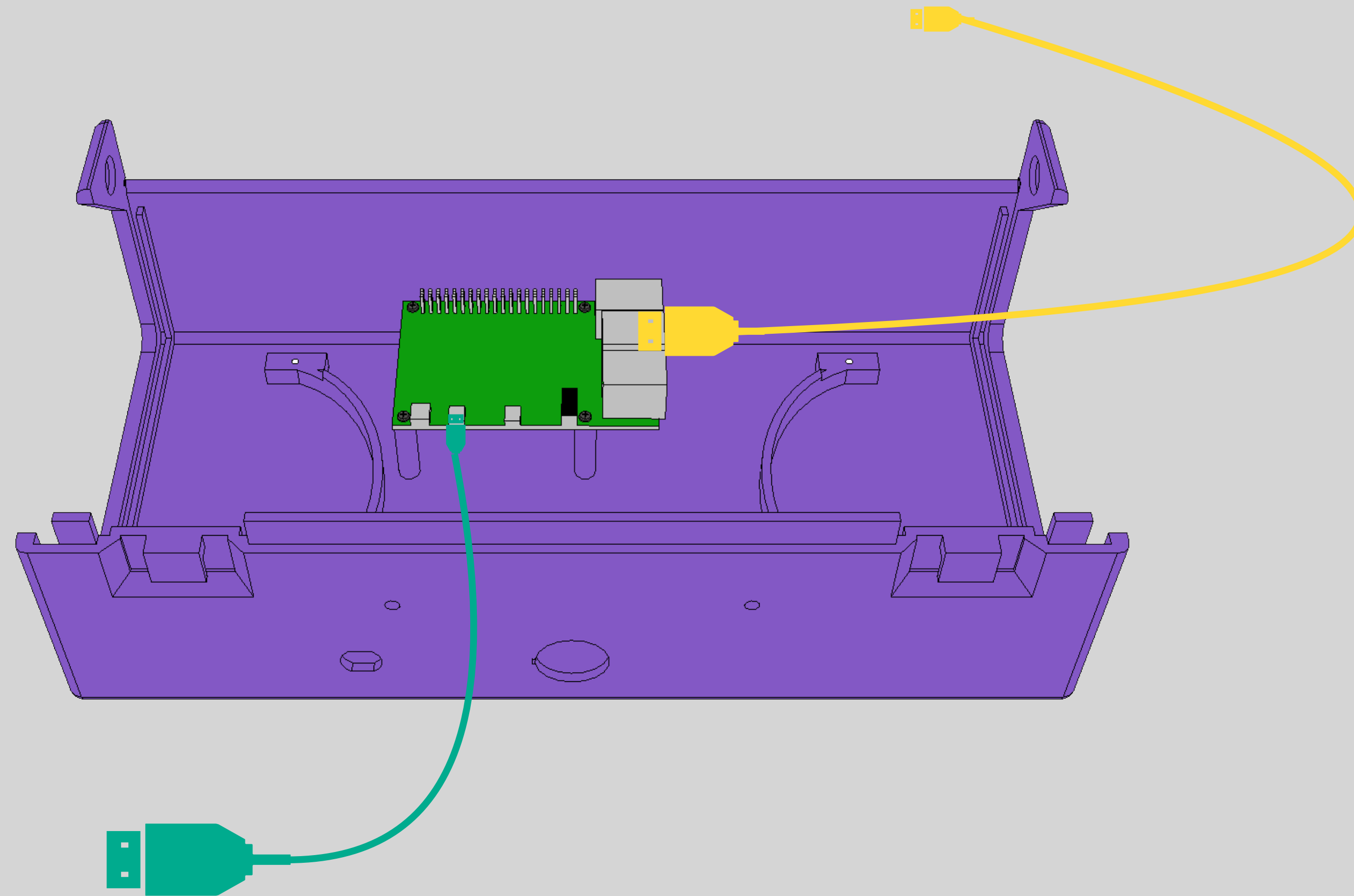


Assembly

5. Plug the HDMI to MicroHDMI cable of the display into the Raspberry



Plug the MicroUSB cable into the USB-A port of the Raspberry Pi.

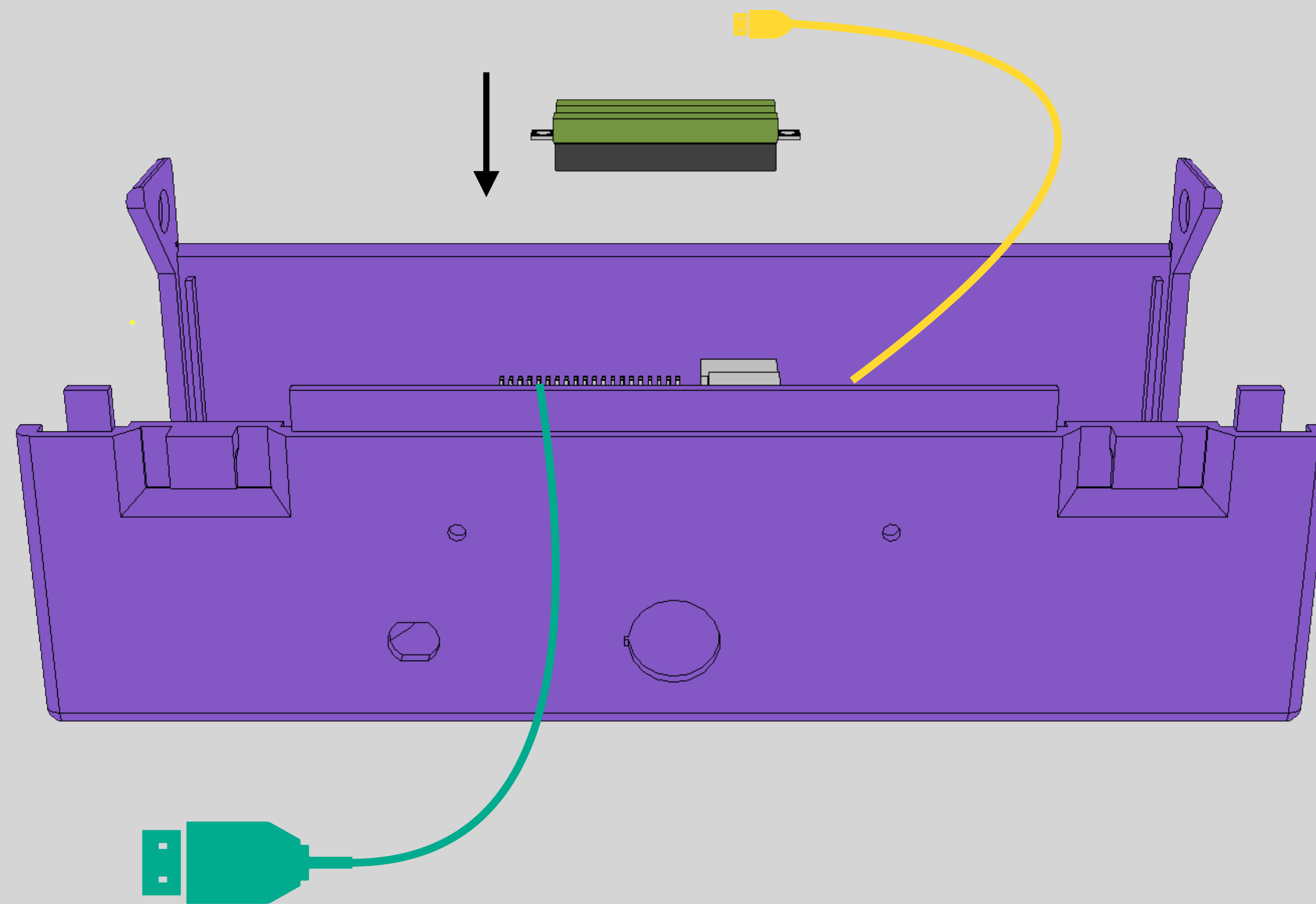


Assembly

6. Place the breakout board loosely in the box

First place the breakout board loosely in the box.

You only place this on the pins of the Raspberry later when all cables are connected to the attachment.



Assembly

7. Connect the USB-A port to the breakout board

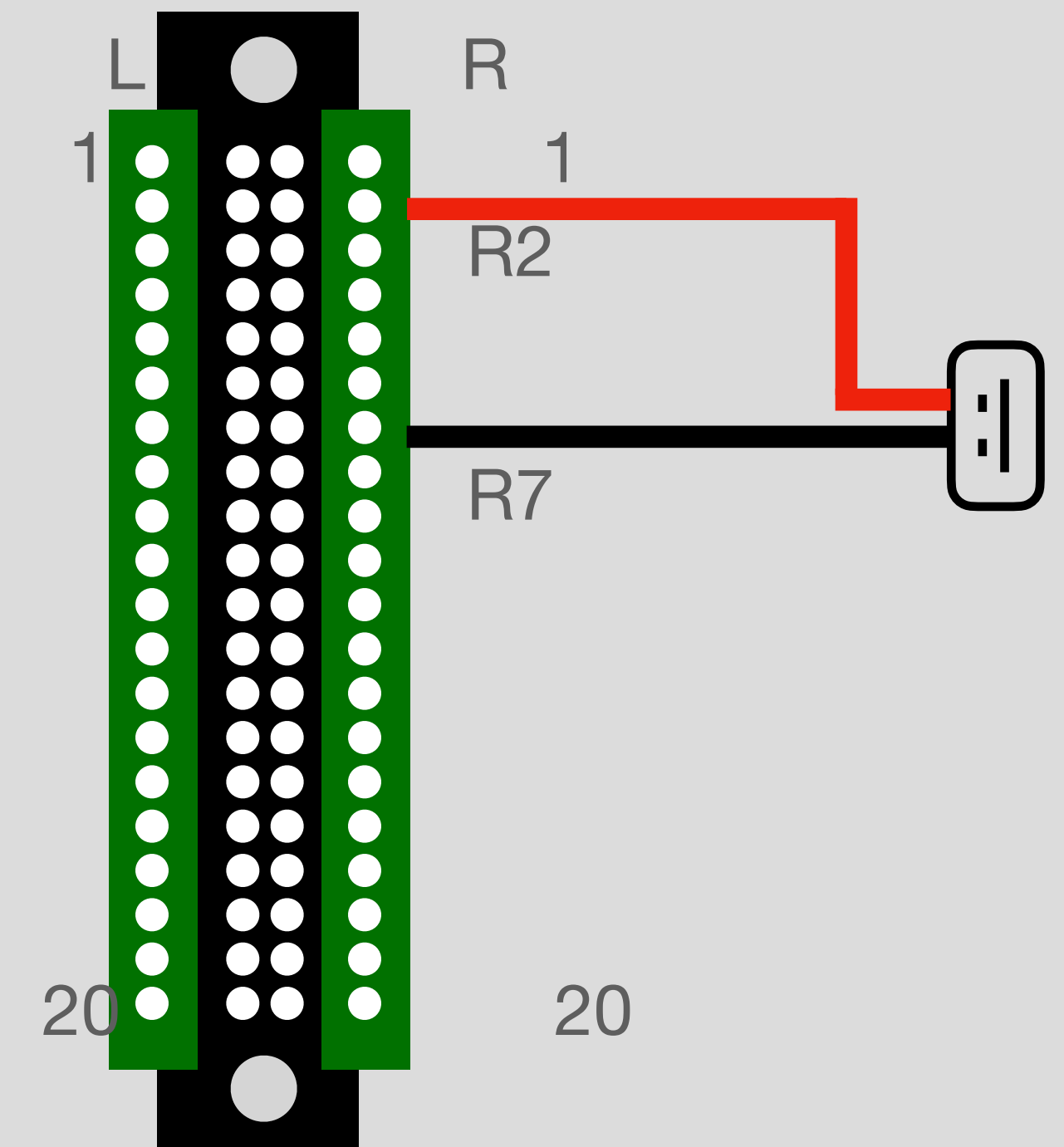


We have to set a separate USB port for the speakers because the Raspberry unfortunately does not have enough power for speakers and screen on its USB-A ports.

You can rotate the breakout board as you like. The only important thing is that you stick to the same orientation from here on. It is best to make a mark on the lower side.

Now take the USB-A connection and plug the red cable sideways into the second hole from the top on the right-hand side (R2). Then secure it by tightening the screw above the hole.

Insert the black cable into the 7th hole from the top on the right (R7) and secure it in the same way by tightening the screw above it.

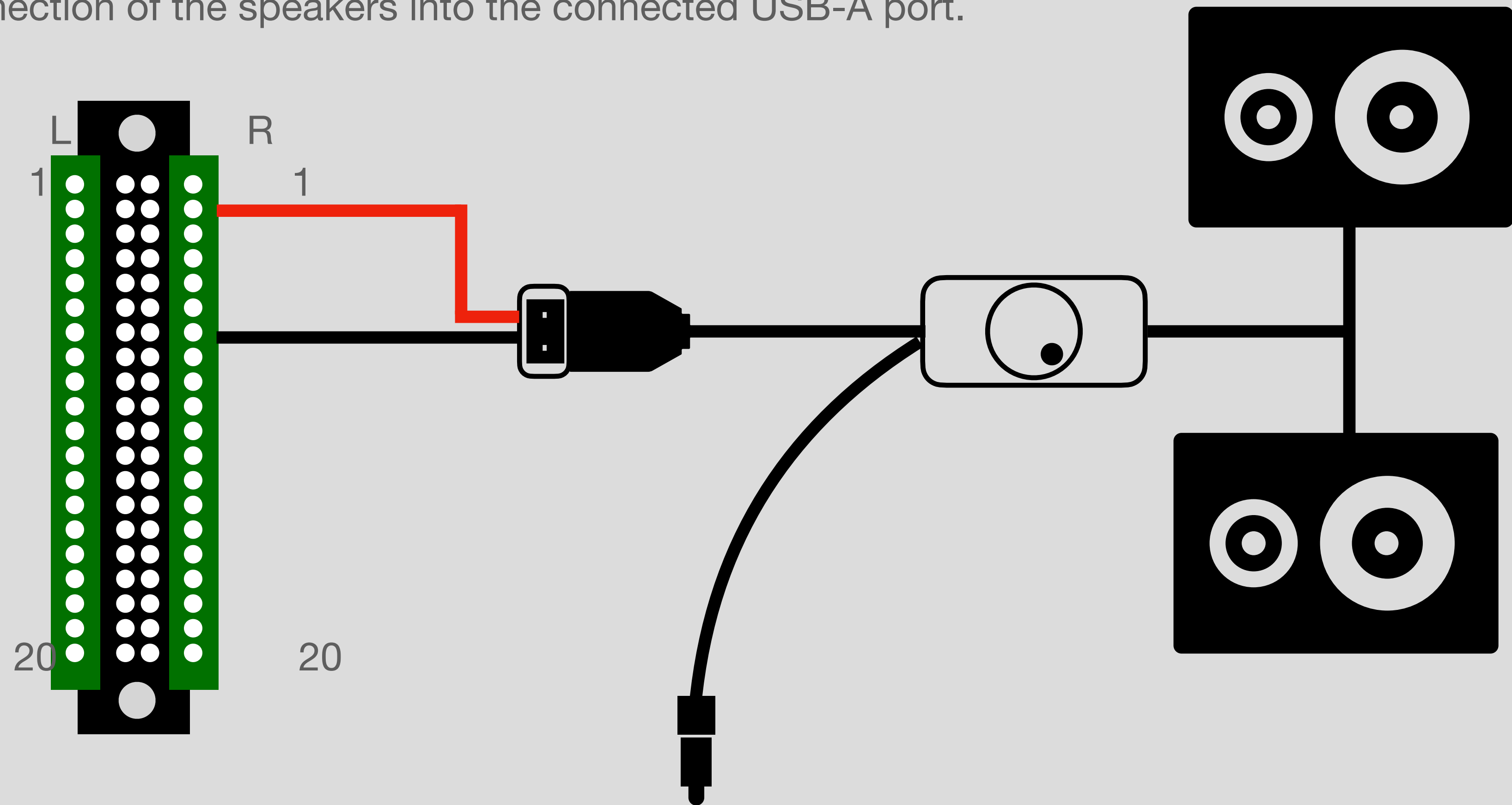


Assembly

8. Connect speakers via USB



Now plug the USB-A connection of the speakers into the connected USB-A port.



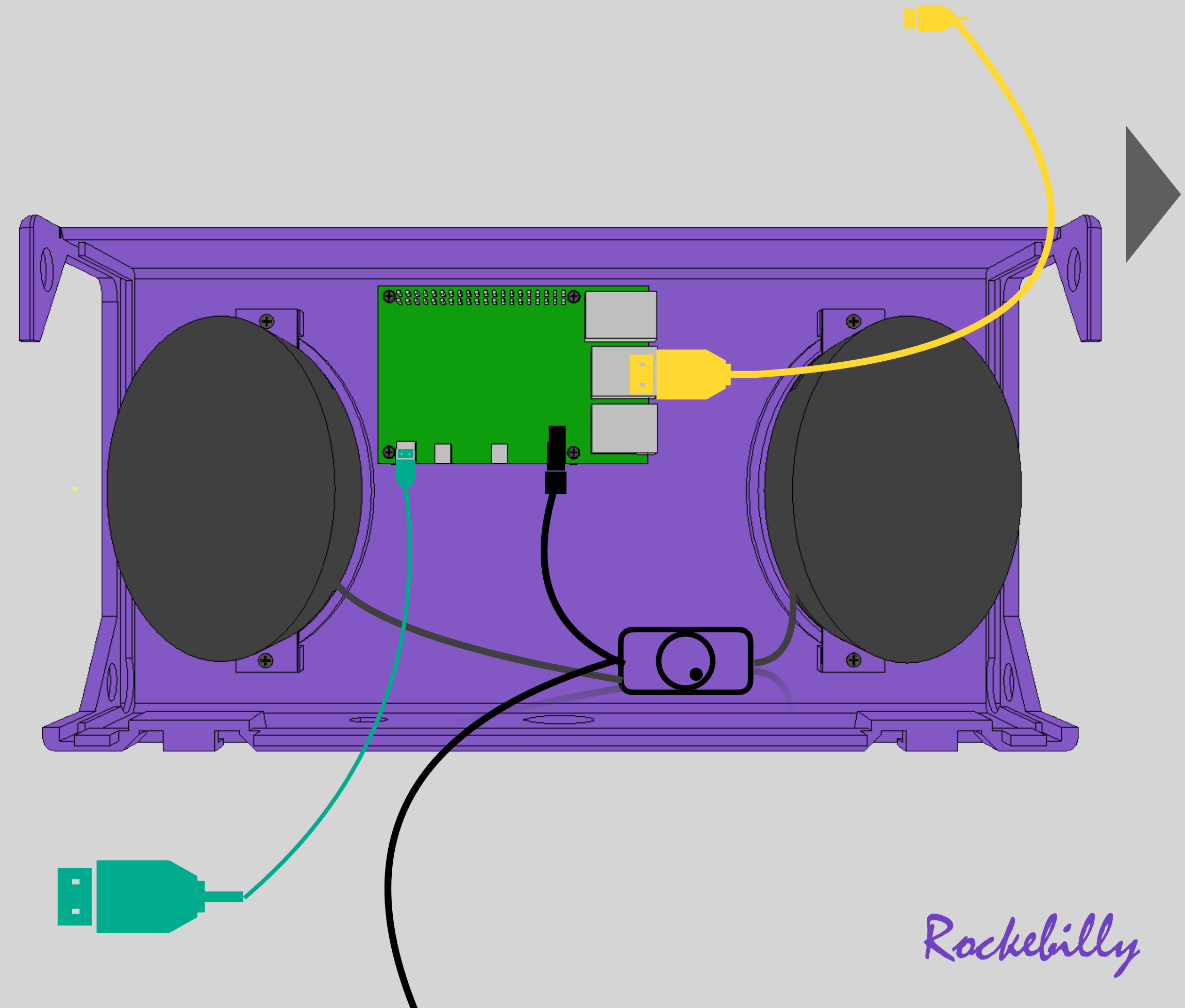
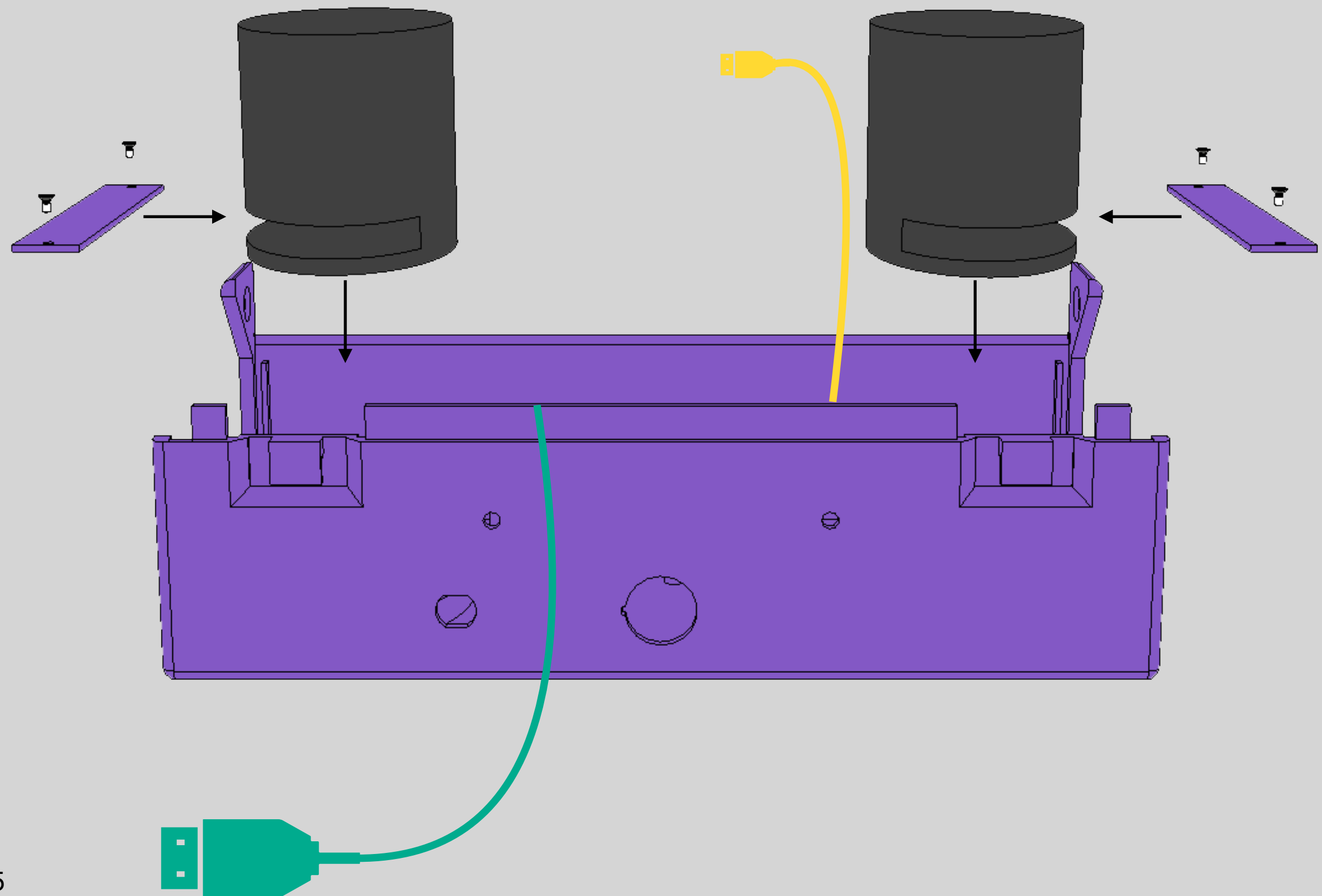
Assembly

9. Screw the speaker into the box



Place the speakers in the box with the cones facing outwards and secure them with the two brackets using 4 M2.5 screws. Place the cables in the box.

Plug the 3.5 jack cable into the audio output of the Raspberry Pi.

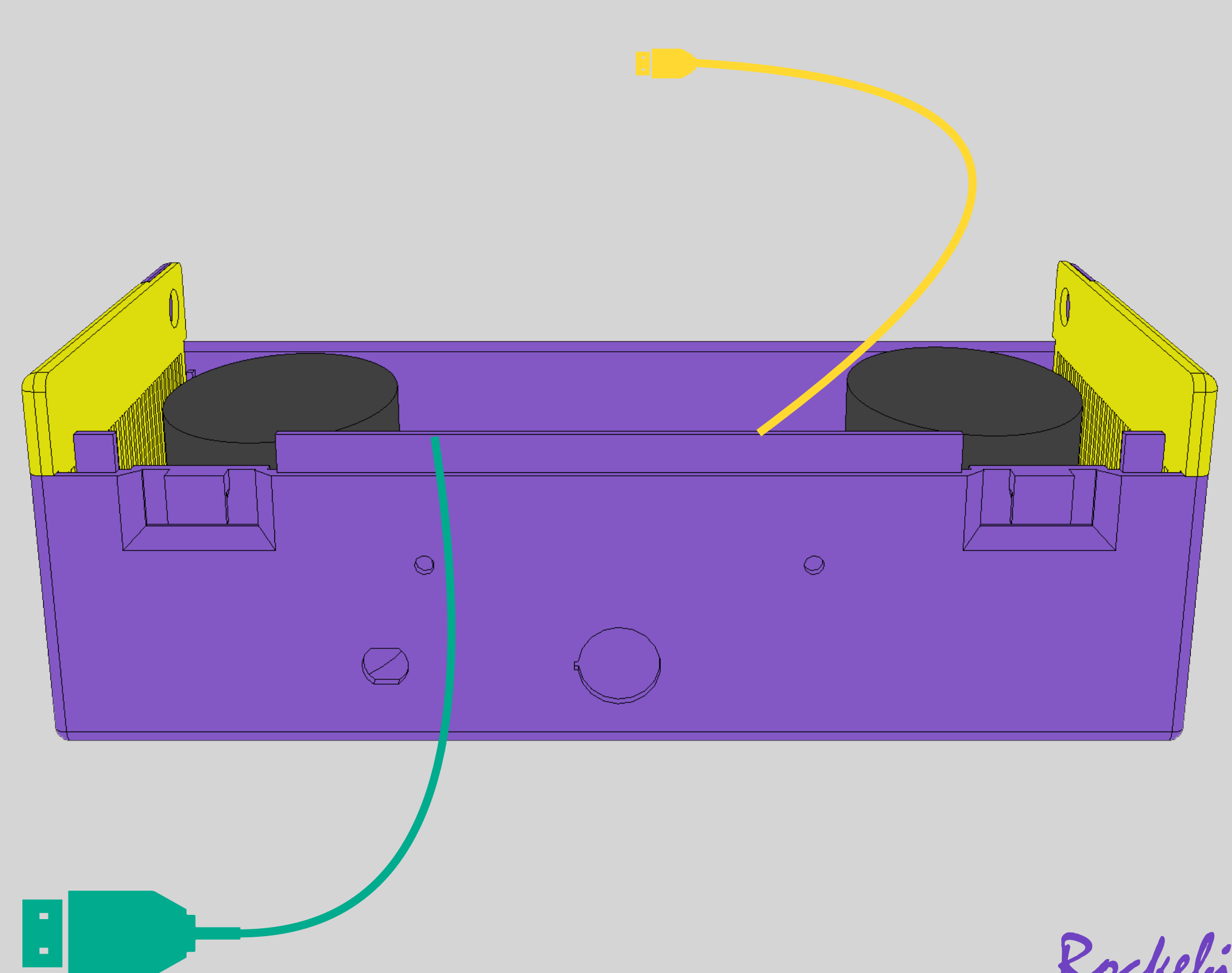
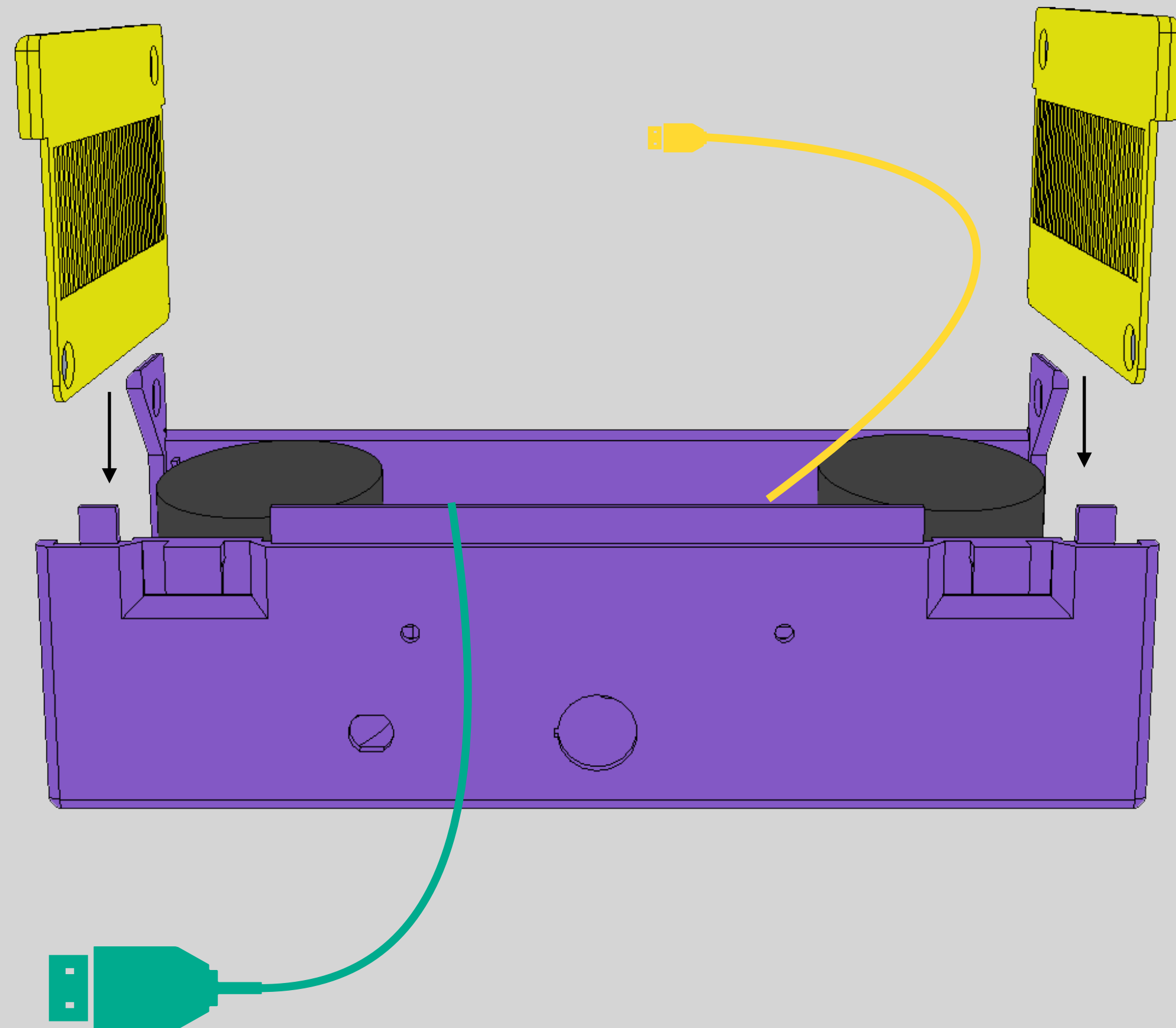


Assembly

10. Slide in side panels



Tuck in the side pieces at the inner edge.

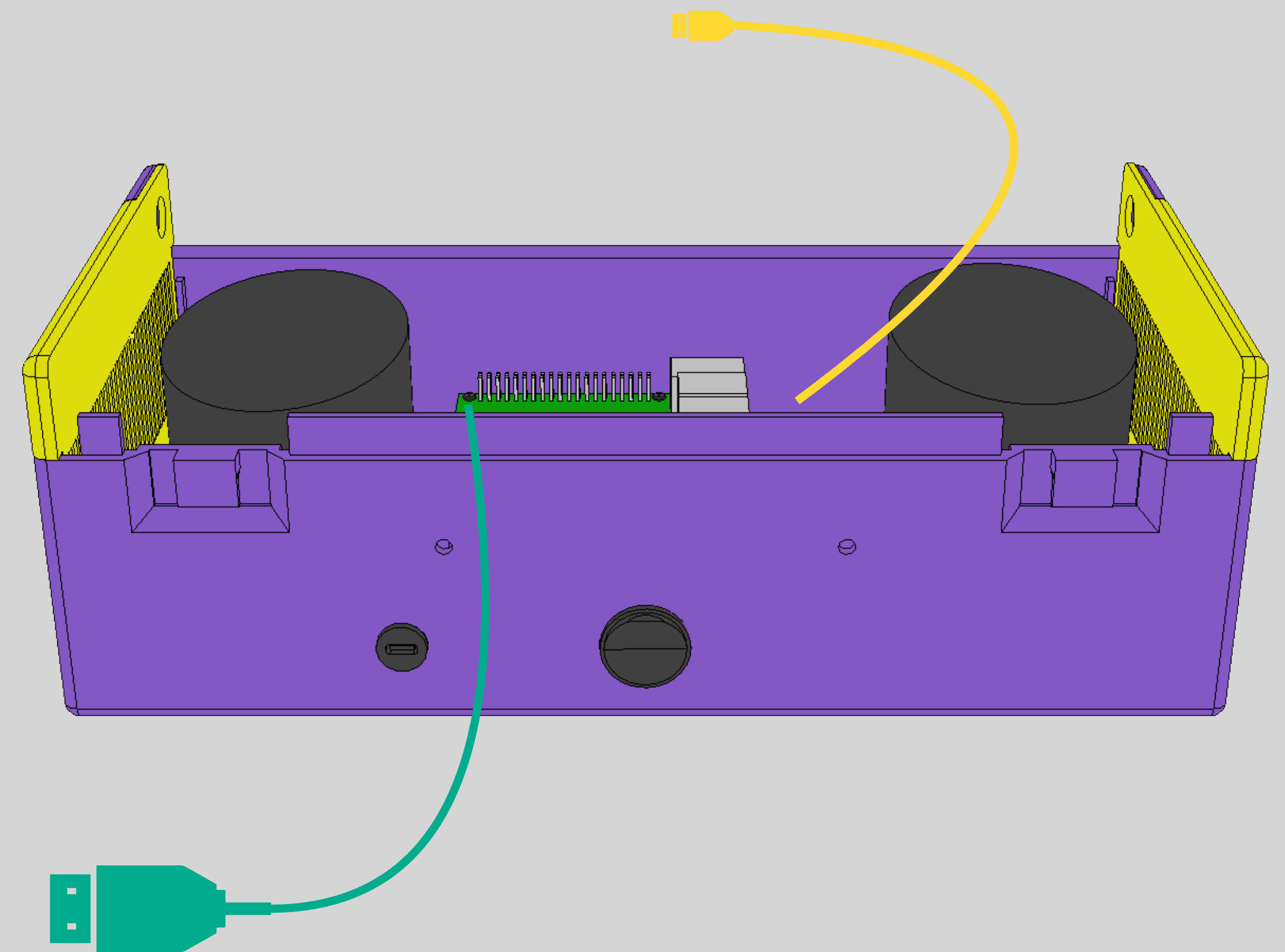
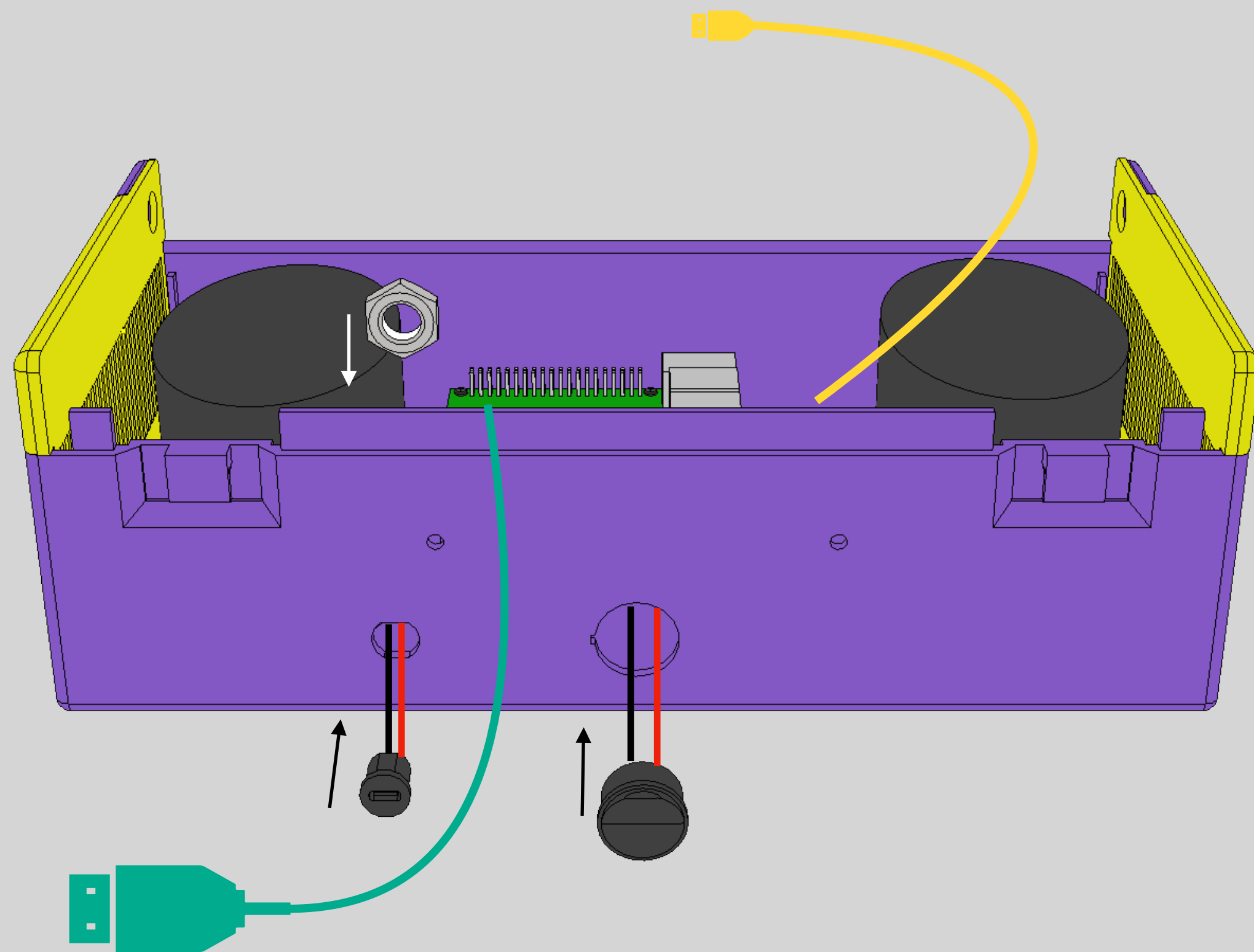


Assembly

11. Attach USB-C connection and On/Off switch



Insert the USB connection and On/Off switch with cable into the holes provided. Fasten the USB-C connection on the inside with the enclosed nut.



Assembly

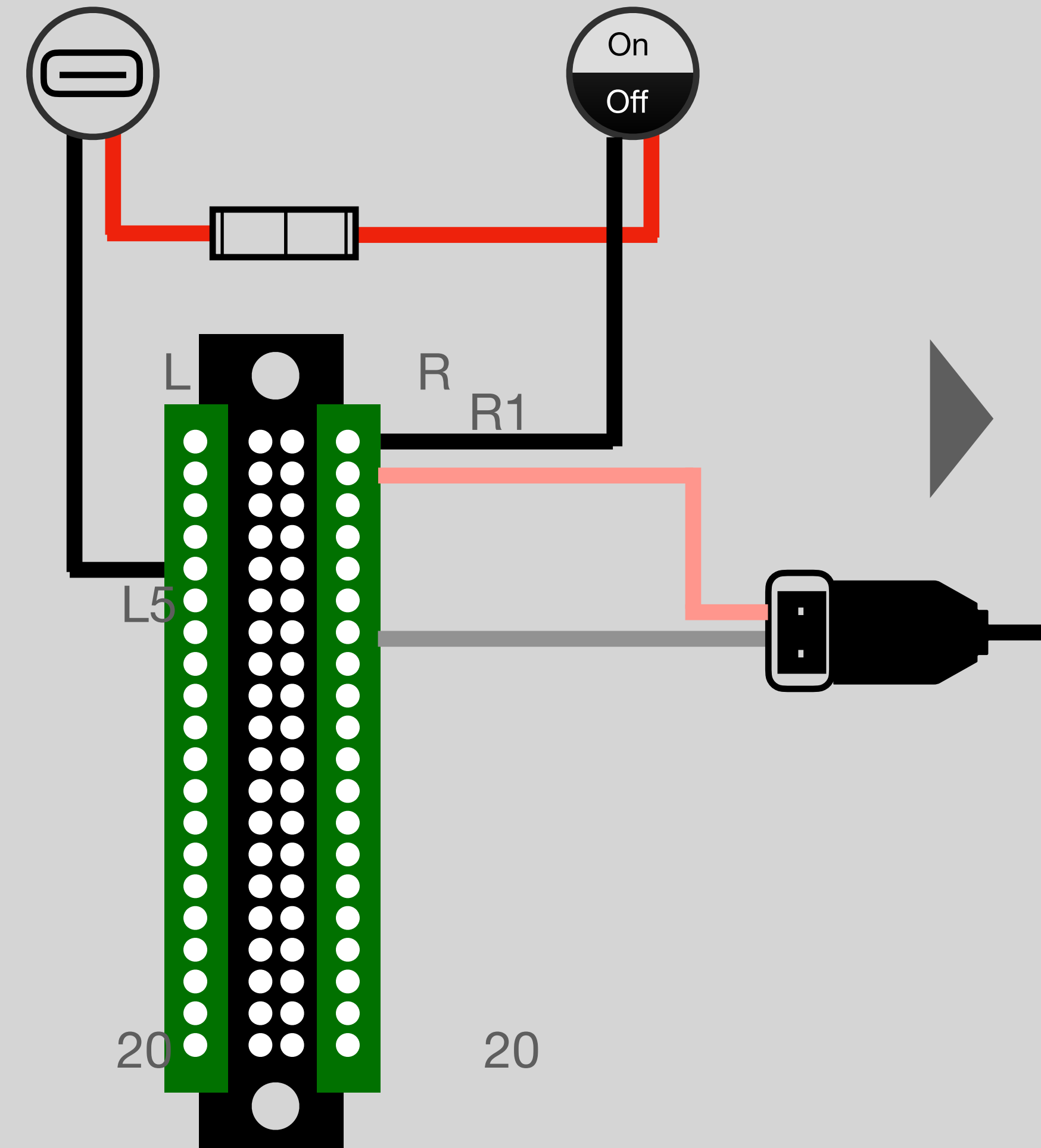
12. Wiring the USB-C connection and on/off switch



Connect the two red cables from the USB-C port and the on/off switch with the clamp.

Insert the black cable from the USB-C port into the 5th hole from the top on the left-hand side (L5).
Secure the cable by tightening the screw above it.

Insert the black cable of the on/off switch into the 1st hole from the top on the right side (R1).
Secure the cable by tightening the screw above it.

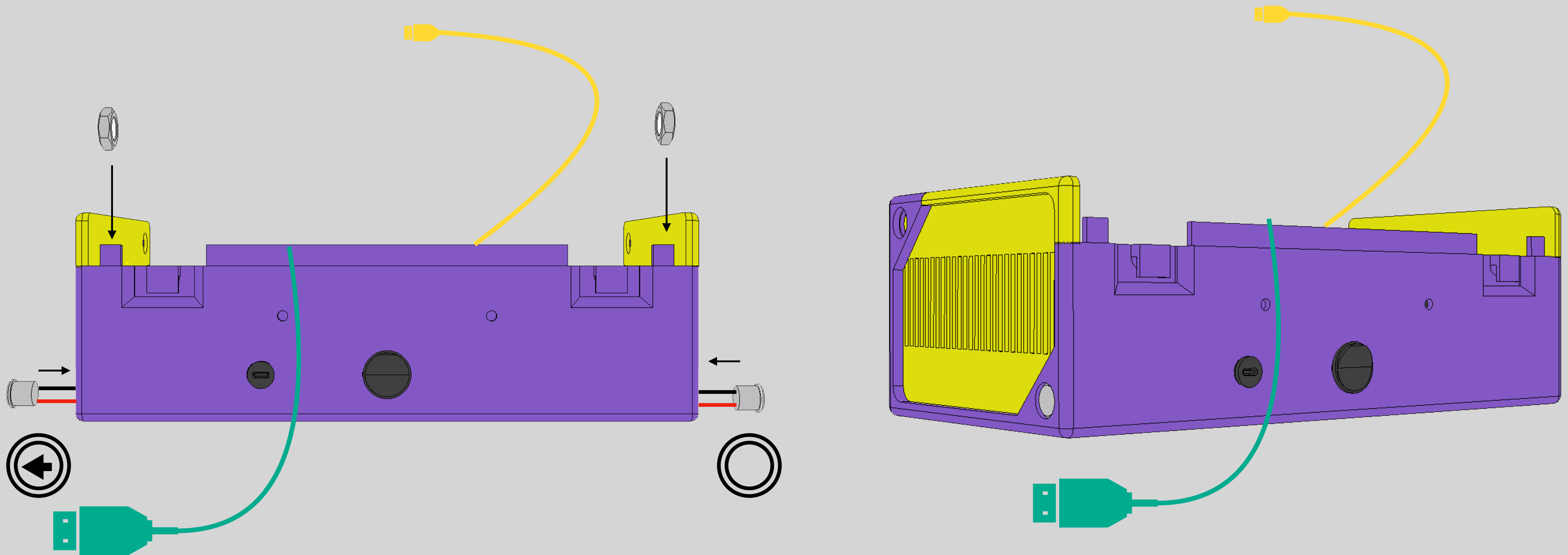


Assembly

13. Screw back and screen on/off button



Unscrew the nut from the two push buttons and insert the buttons sideways into the two lower holes. Fasten the buttons by screwing the nuts onto the thread from the inside. This is how you connect the side parts to the box.



Assembly

14. Wiring the back and screen on/off button

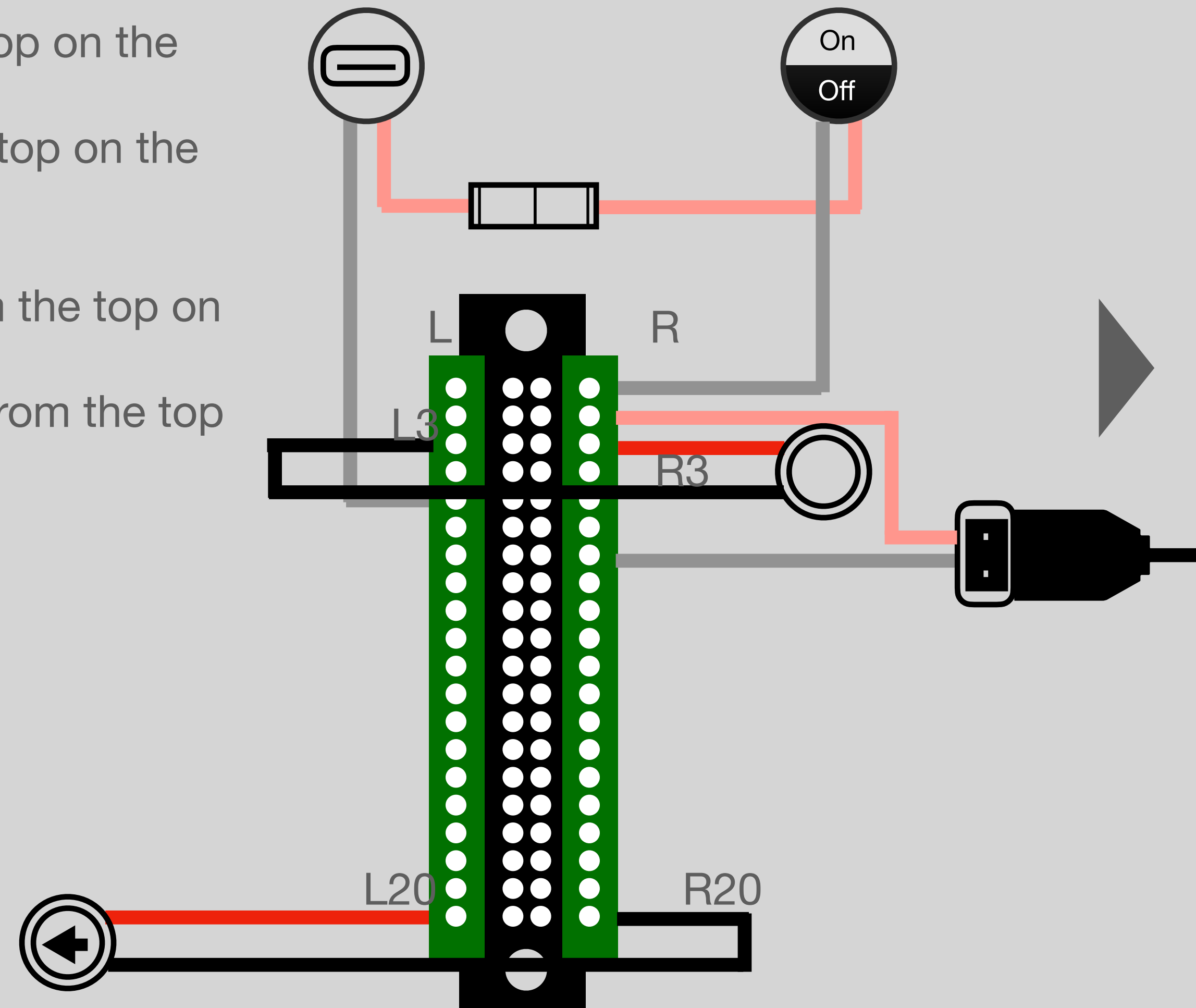
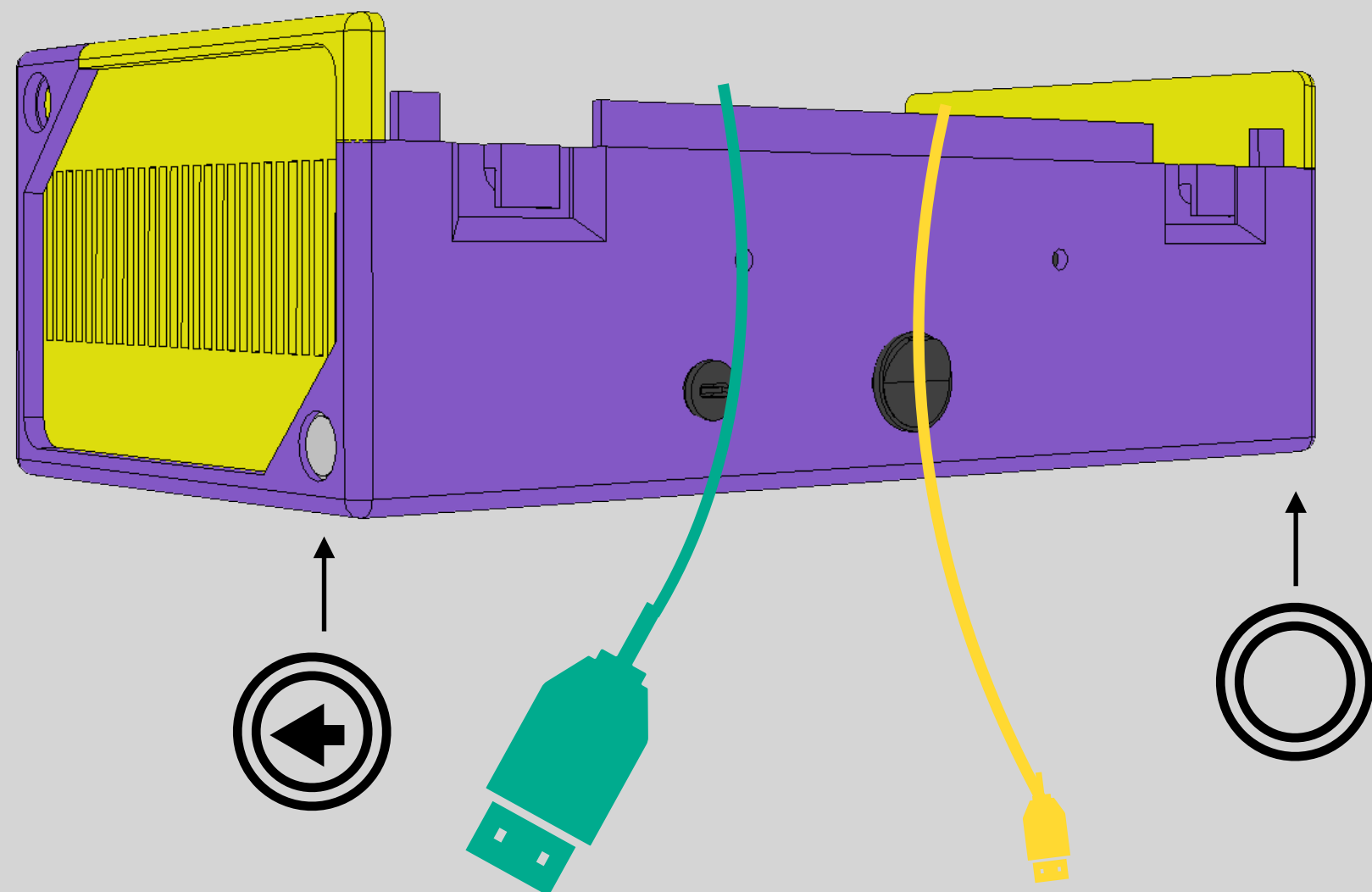
Insert the red cable of the back button into the 20th hole from the top on the left-hand side (L20).

Plug the black cable of the back button into the 20th hole from the top on the right-hand side (R20).

Plug the red cable of the screen on/off button into the 3rd hole from the top on the right-hand side (R3).

Insert the black cable of the screen on/off button into the 3rd hole from the top on the left side (L3).

Secure the cables by tightening the screws above them.

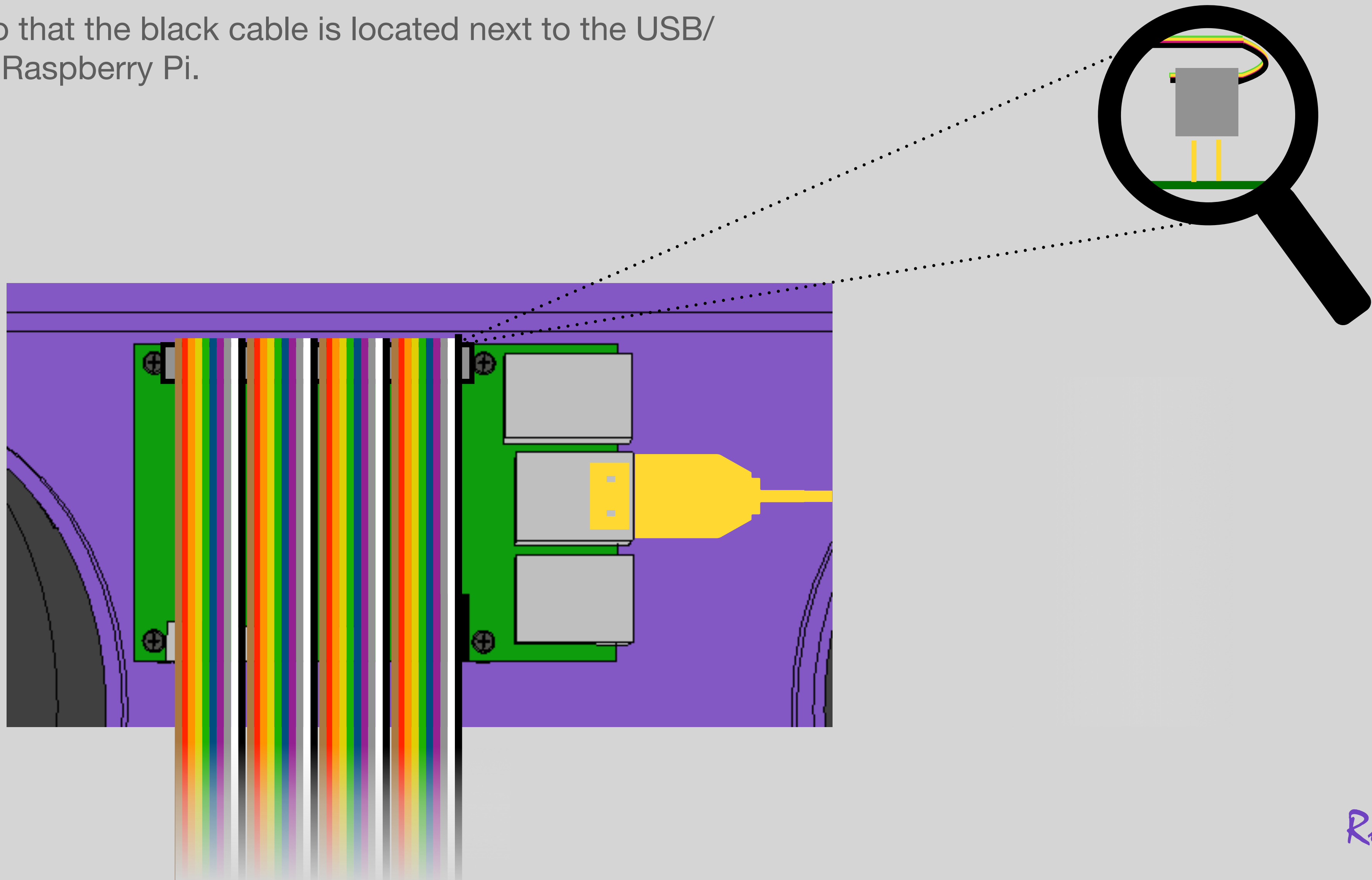


Assembly

15. Connect ribbon cable to Raspberry Pi



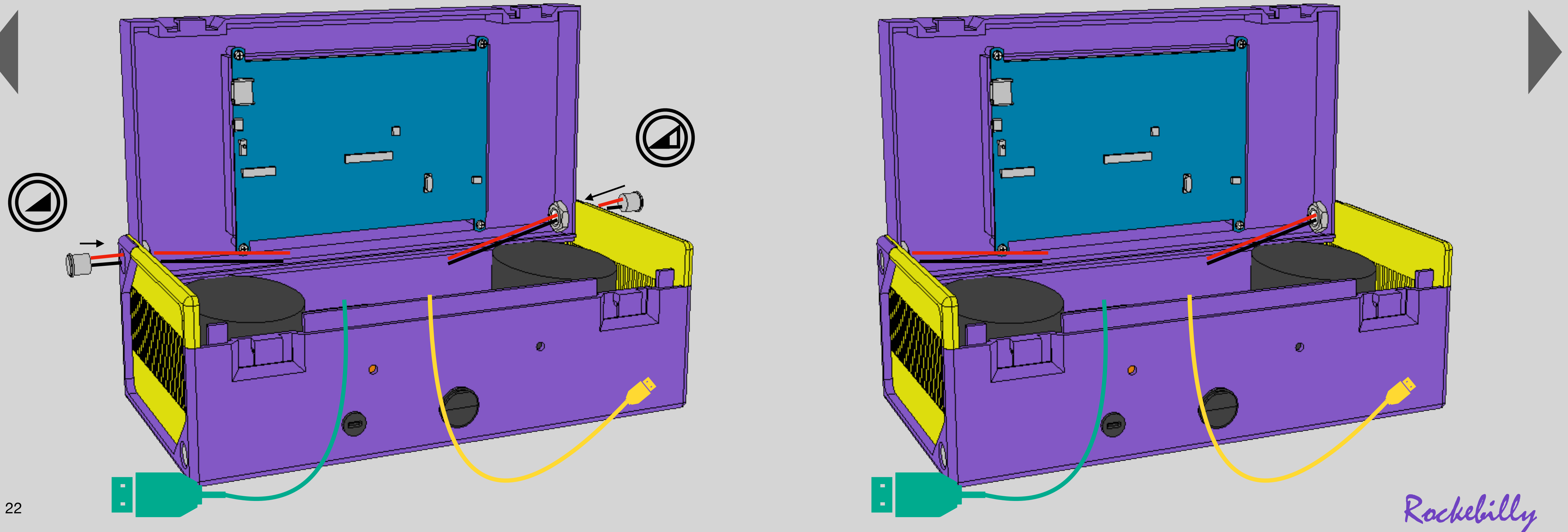
Connect the cable so that the black cable is located next to the USB/network ports of the Raspberry Pi.



Assembly

16. Screw the lid to the box using the volume up and volume down buttons

Unscrew the nuts of two push buttons for "volume up" and "volume down" and push the buttons sideways into the two upper holes. Make sure that they go through the side openings of the lid and secure them by turning the nuts onto the thread from the inside. This is how you connect the top to the side parts and the box.

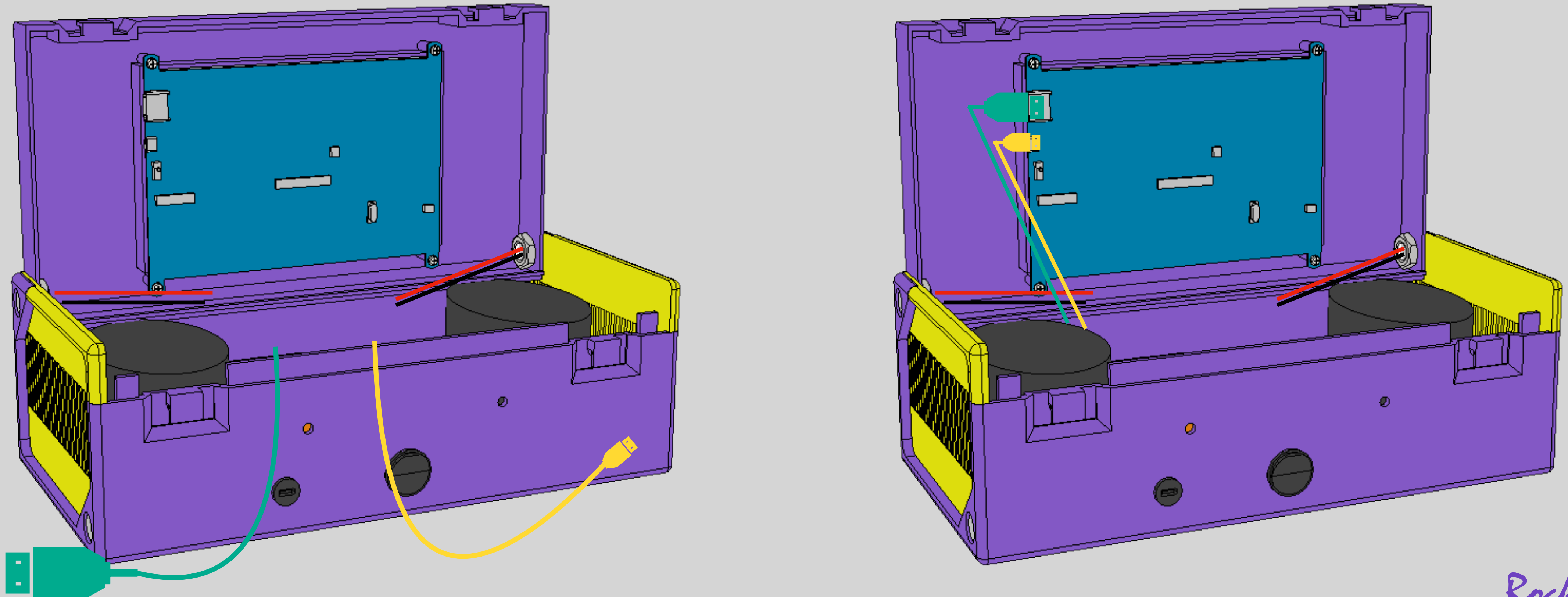


Assembly

17. connect the HDMI cable and USB cable to the screen



Connect the HDMI cable (turquoise here) and the MicroUSB cable (yellow) to the screen. Make sure that the small switch on the screen is set to 'On'.



Assembly

18. Connect volume up and volume down buttons

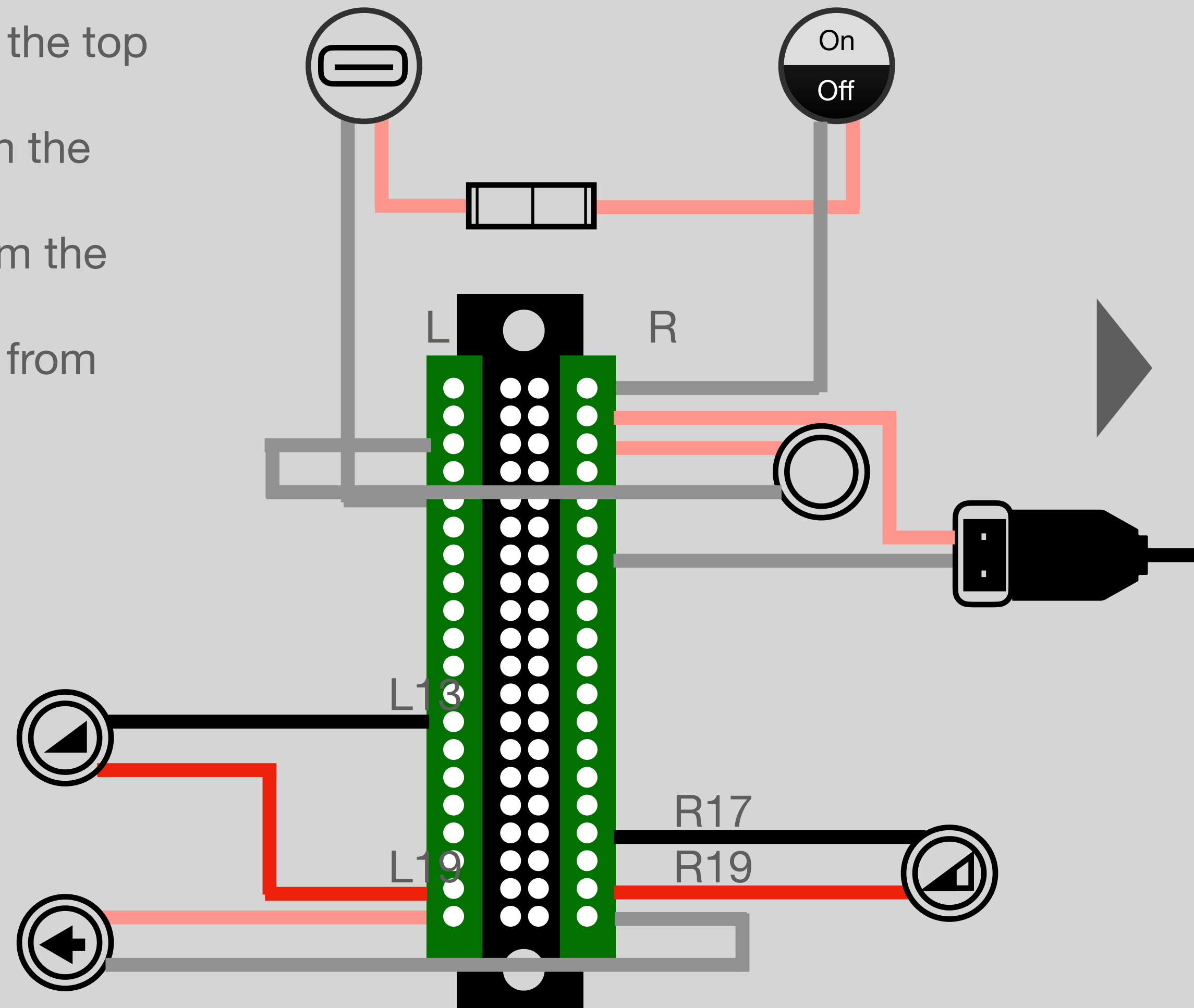
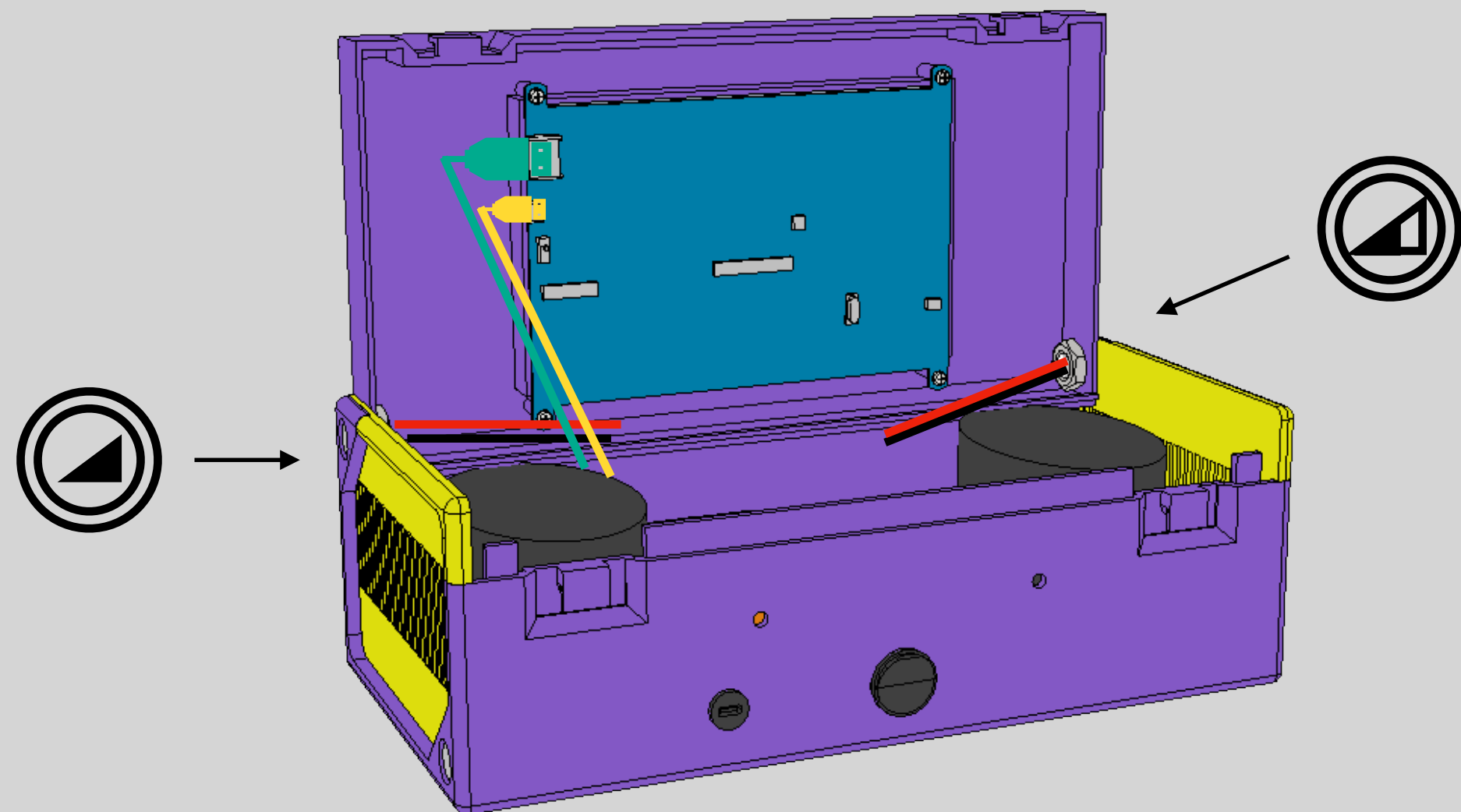
Insert the red cable of the volume up button into the 19th hole from the top on the left-hand side (L19).

Plug the black cable of the volume up button into the 13th hole from the top on the left-hand side (L13).

Plug the red cable of the volume down button into the 19th hole from the top on the right-hand side (R19).

Insert the black cable of the volume down button into the 17th hole from the top on the right-hand side (R17).

Secure the cables by tightening the screws above them.



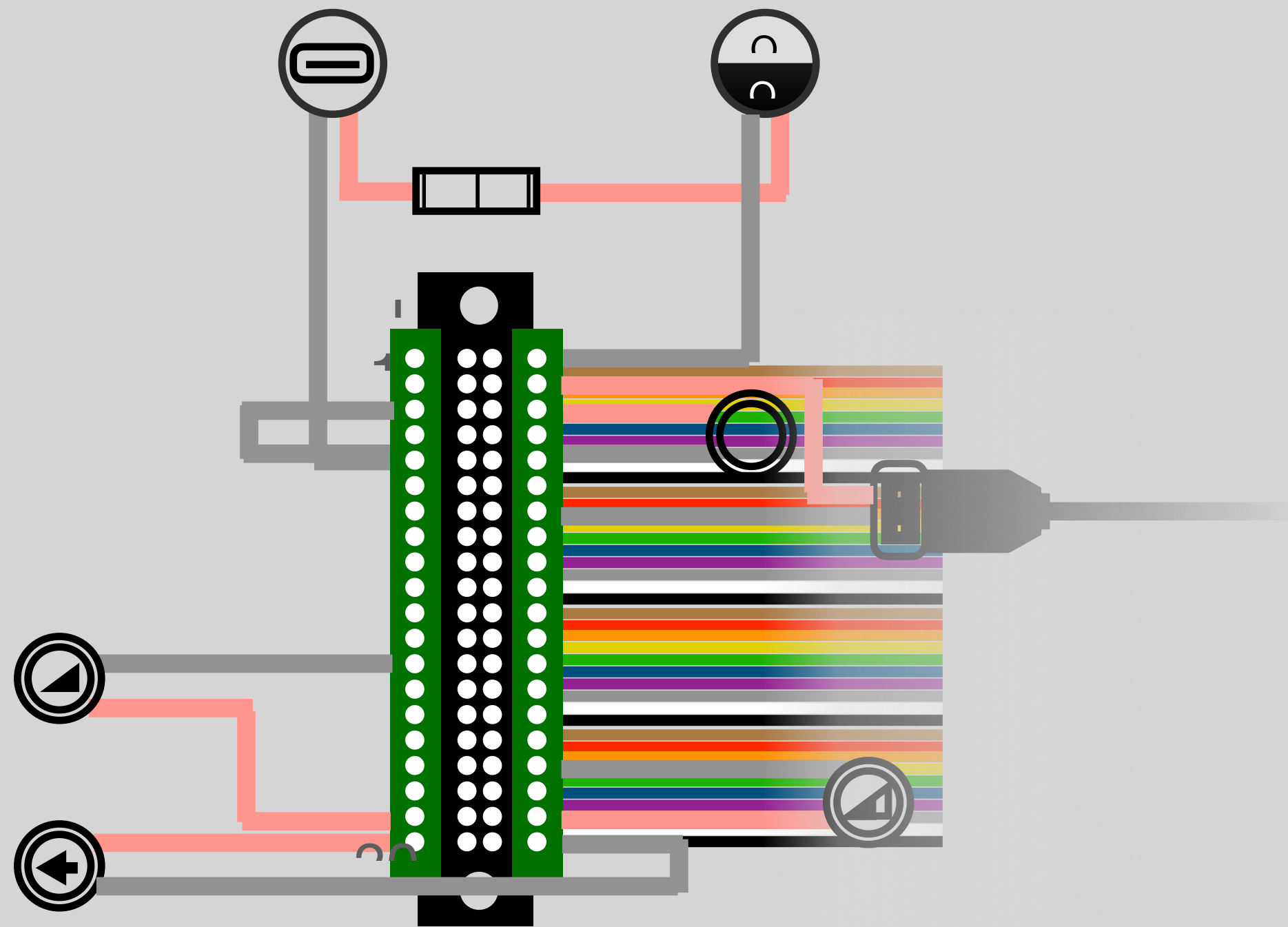
Assembly

19. connect wiring attachment with ribbon cable



Connect the cable to the attachment so that the brown cable is at the top.

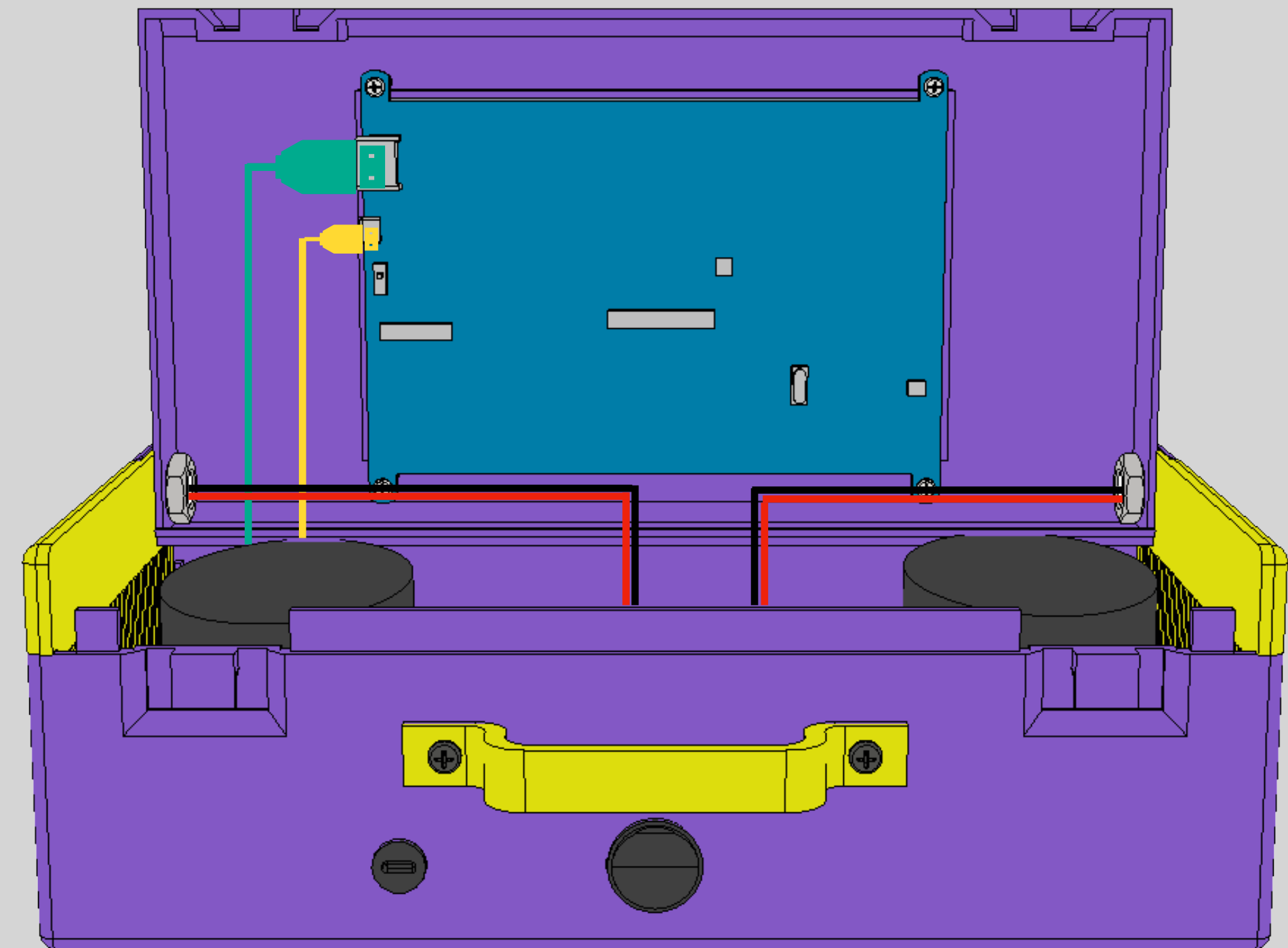
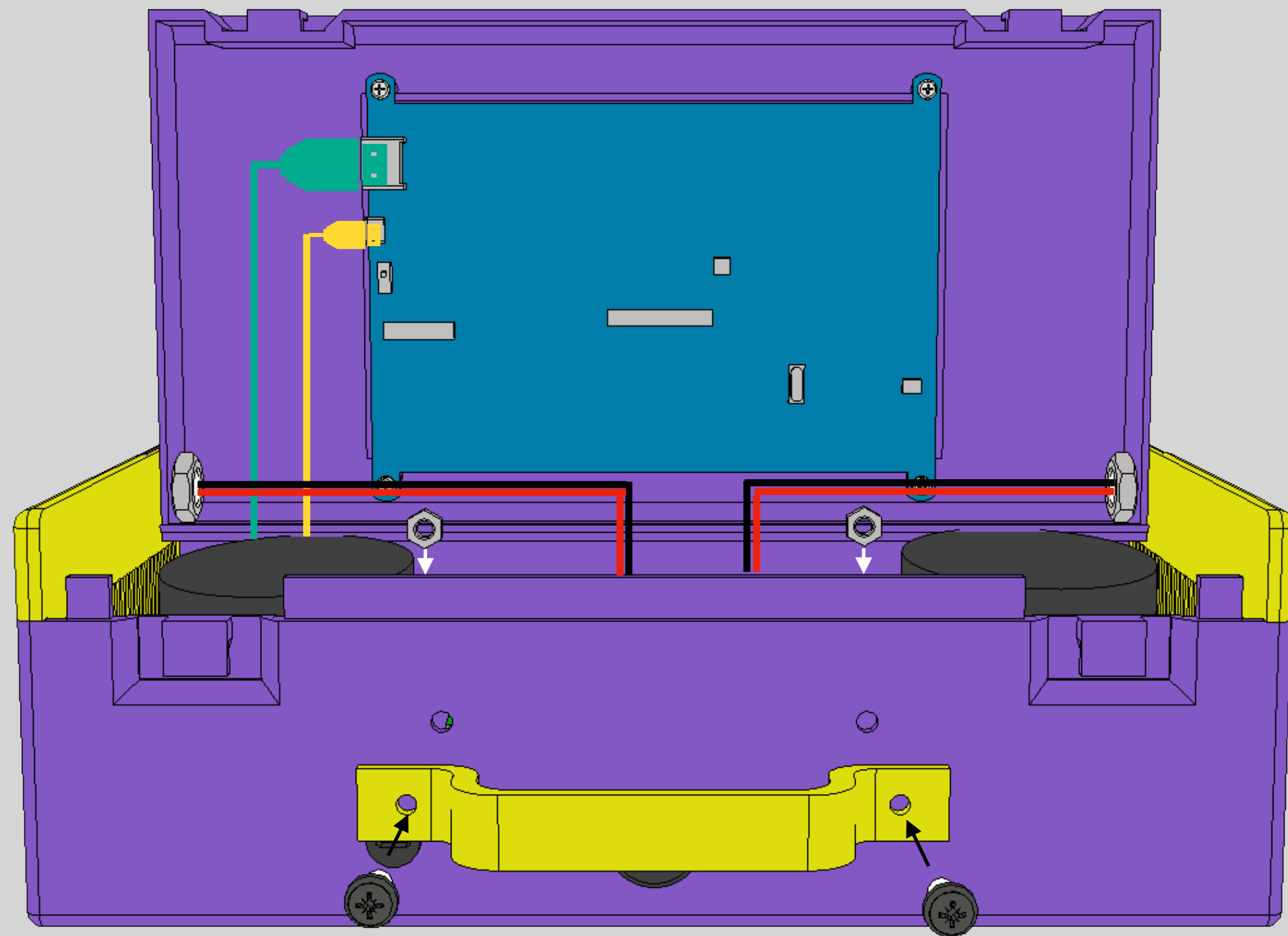
Then place the attachment in the box.



Assembly

20. Attach handle

Take the two M4 screws and screw the handle through the holes into two nuts.

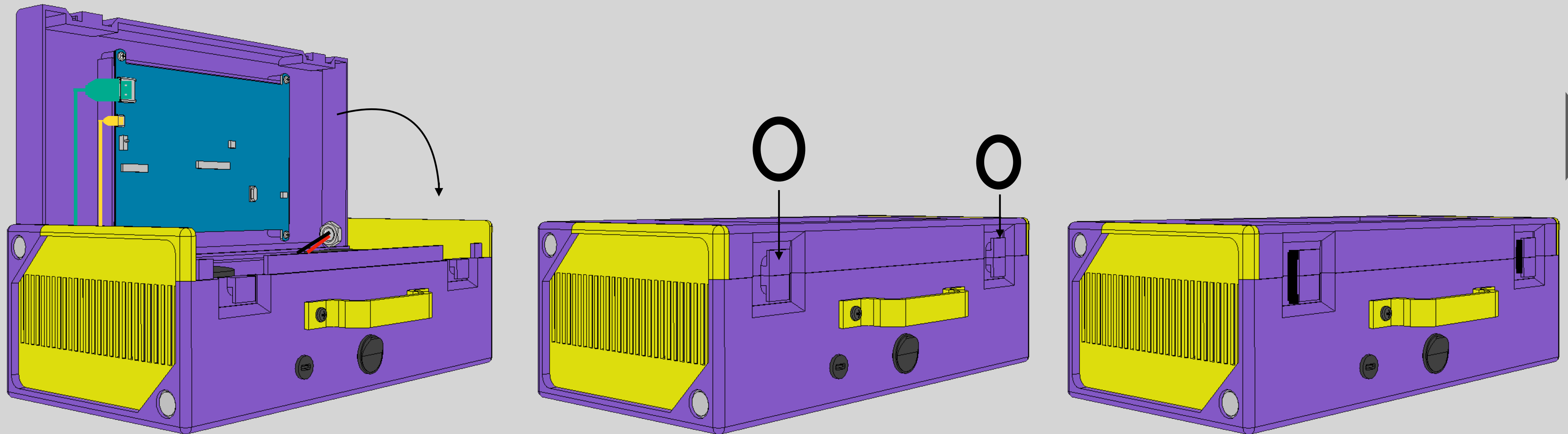


Assembly

21. Close the box



Close the lid and secure the lid with the box using the rubber rings

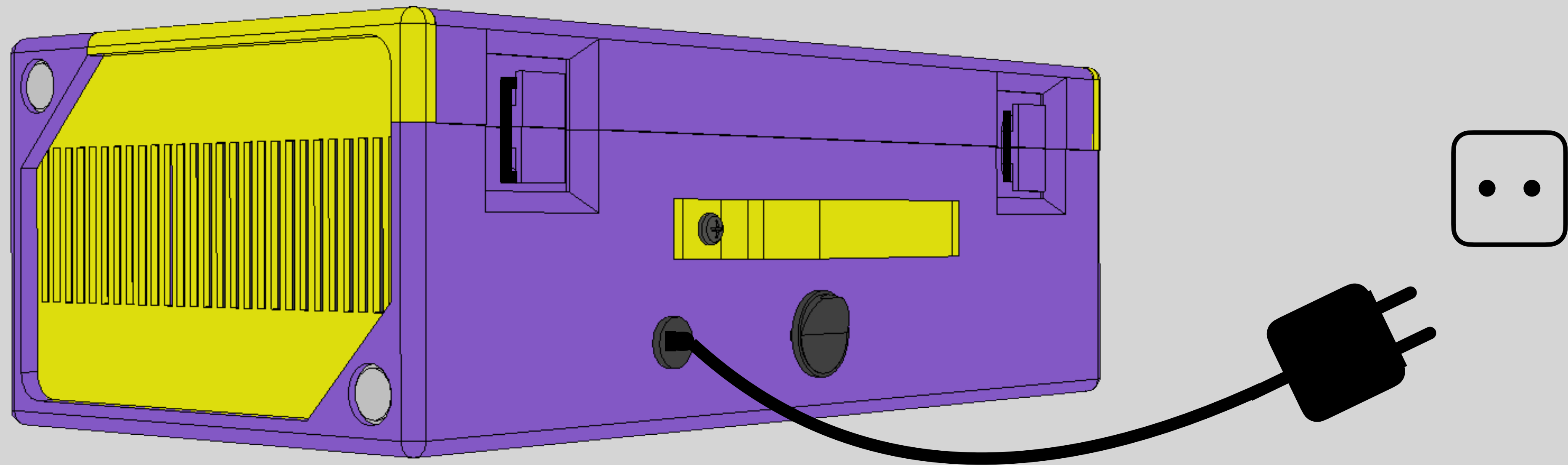


Assembly

22. Connect to the power supply and switch on

Connect the power cable to the USB-C port
Insert the power plug into a 220V socket
Switch the On/Off button to On

The operating system starts.



Operating

Attention

To use the Rockebilly Box, you need a Spotify Premium account and a Rockebilly account. The latter is free.

The following pages explain how to set up an account and create your first shelf.

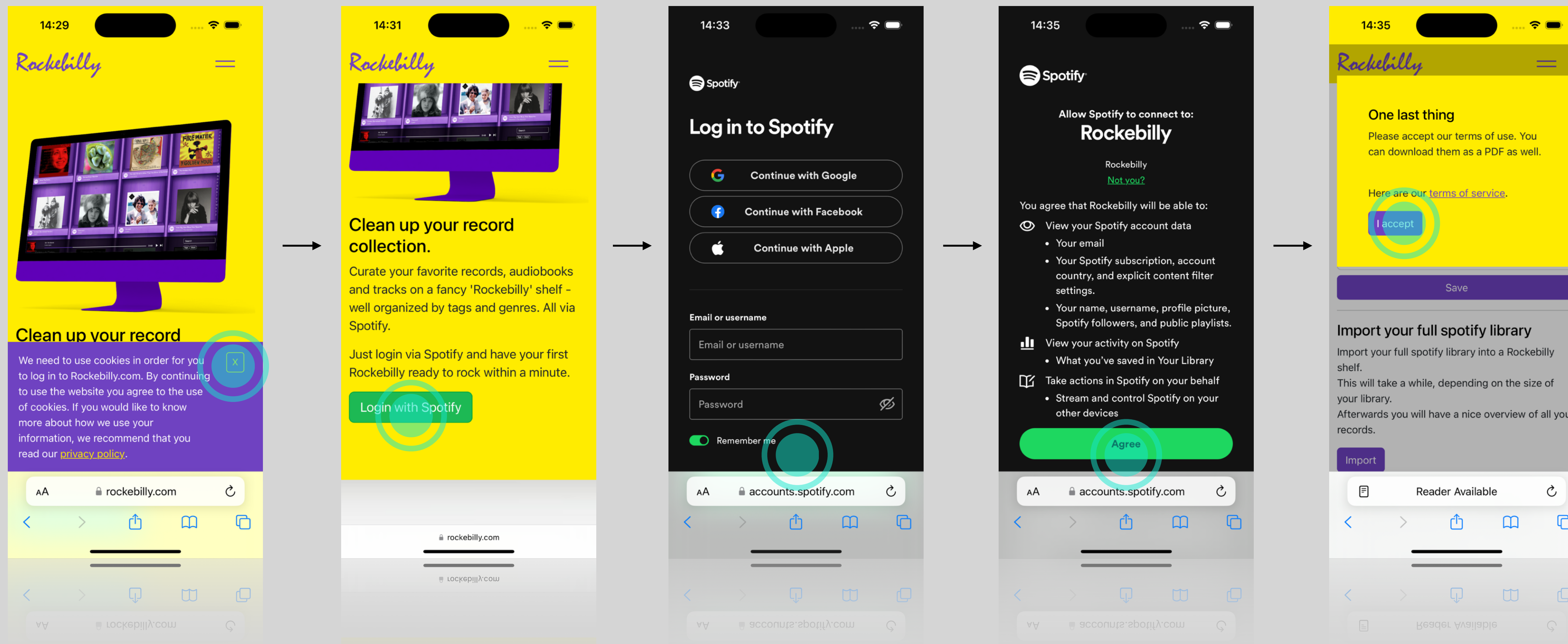
The chapter as a video tutorial

<https://youtu.be/pajl0kxdKKI>

Create account and first shelf

1. Create an account on rockebilly.com

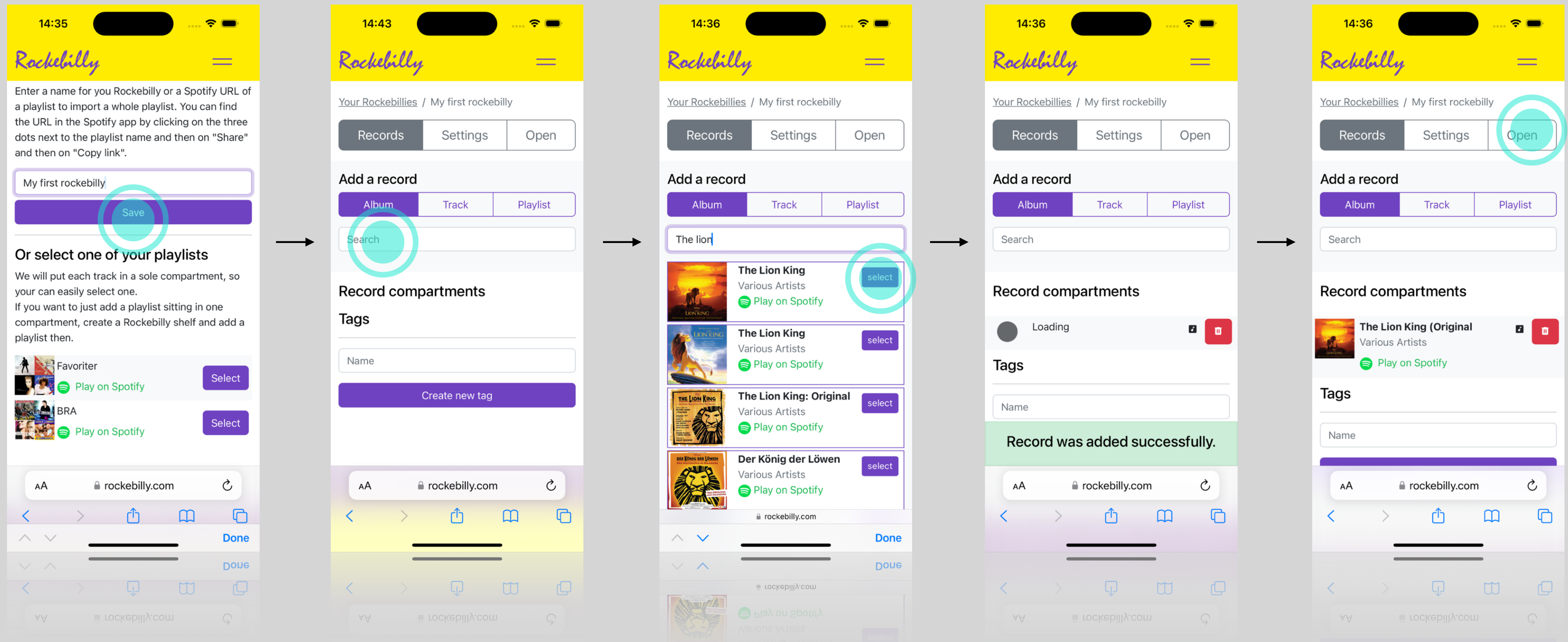
Use your cell phone or a desktop computer and create an account on rockebilly.com. It's free. Please do not use the incognito mode (private browsing) of your browser.



Create account and first shelf

2. Create your first shelf

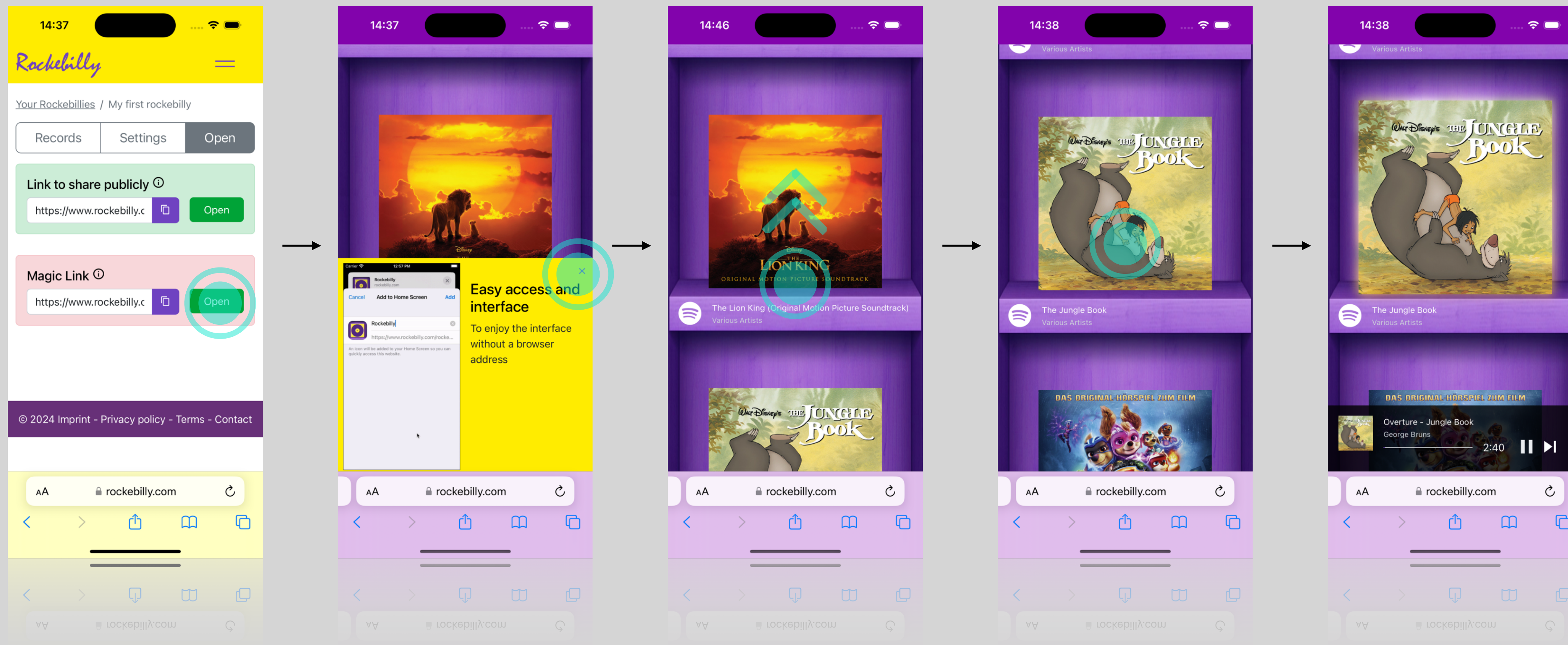
Give your shelf a name and use the search function to add content to the shelf.



Create account and first shelf

3. Open the shelf as a test

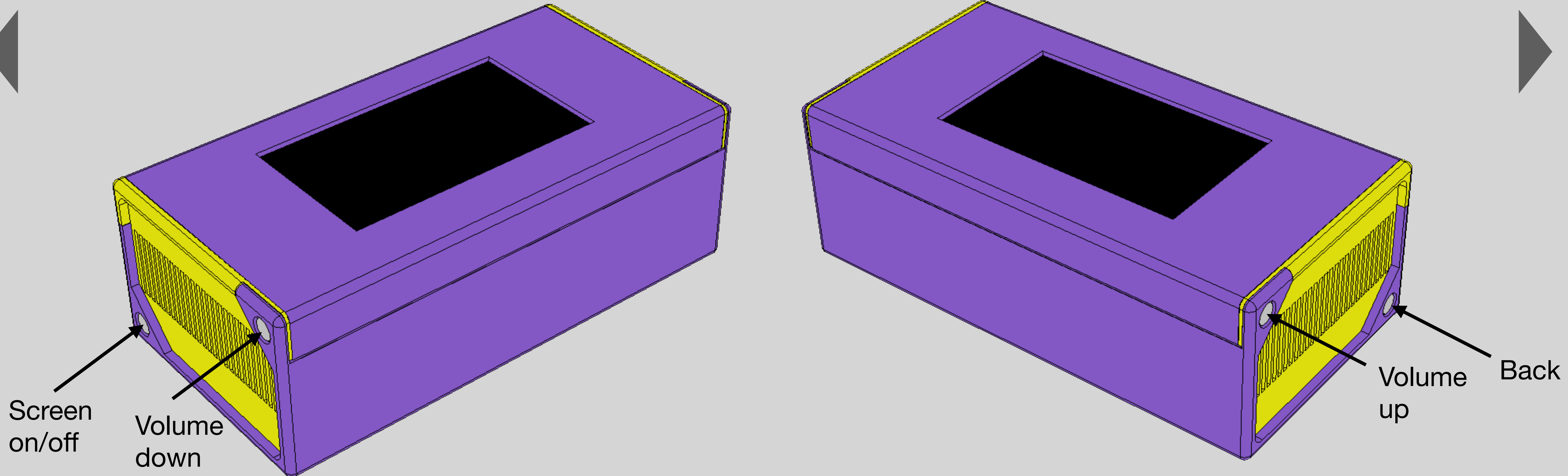
You can always call up the shelves on your cell phone and even save them on your home screen.



Control elements on the box

Your box has four buttons (volume up, volume down, screen on/off, back) and a switch (on/off).

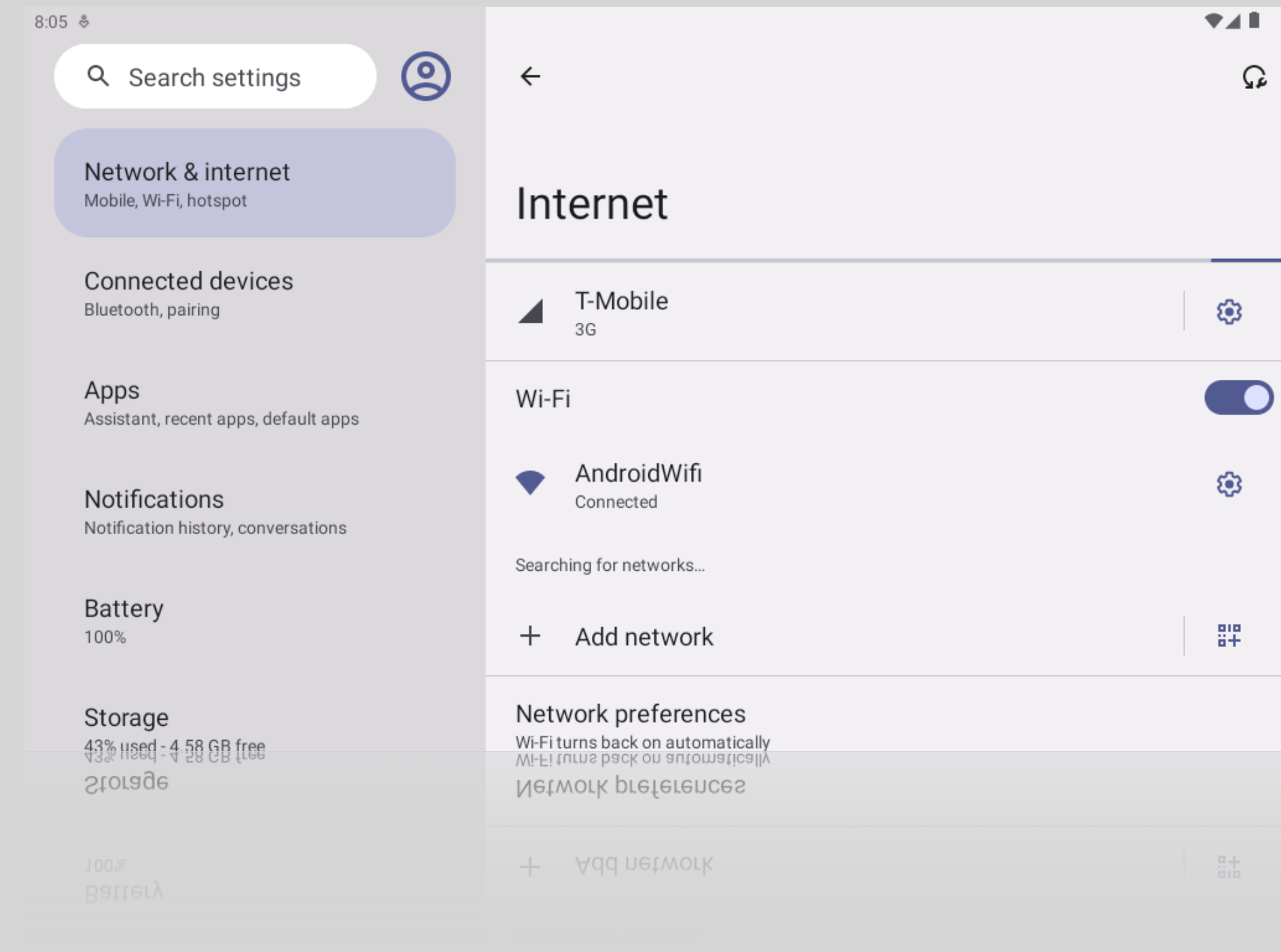
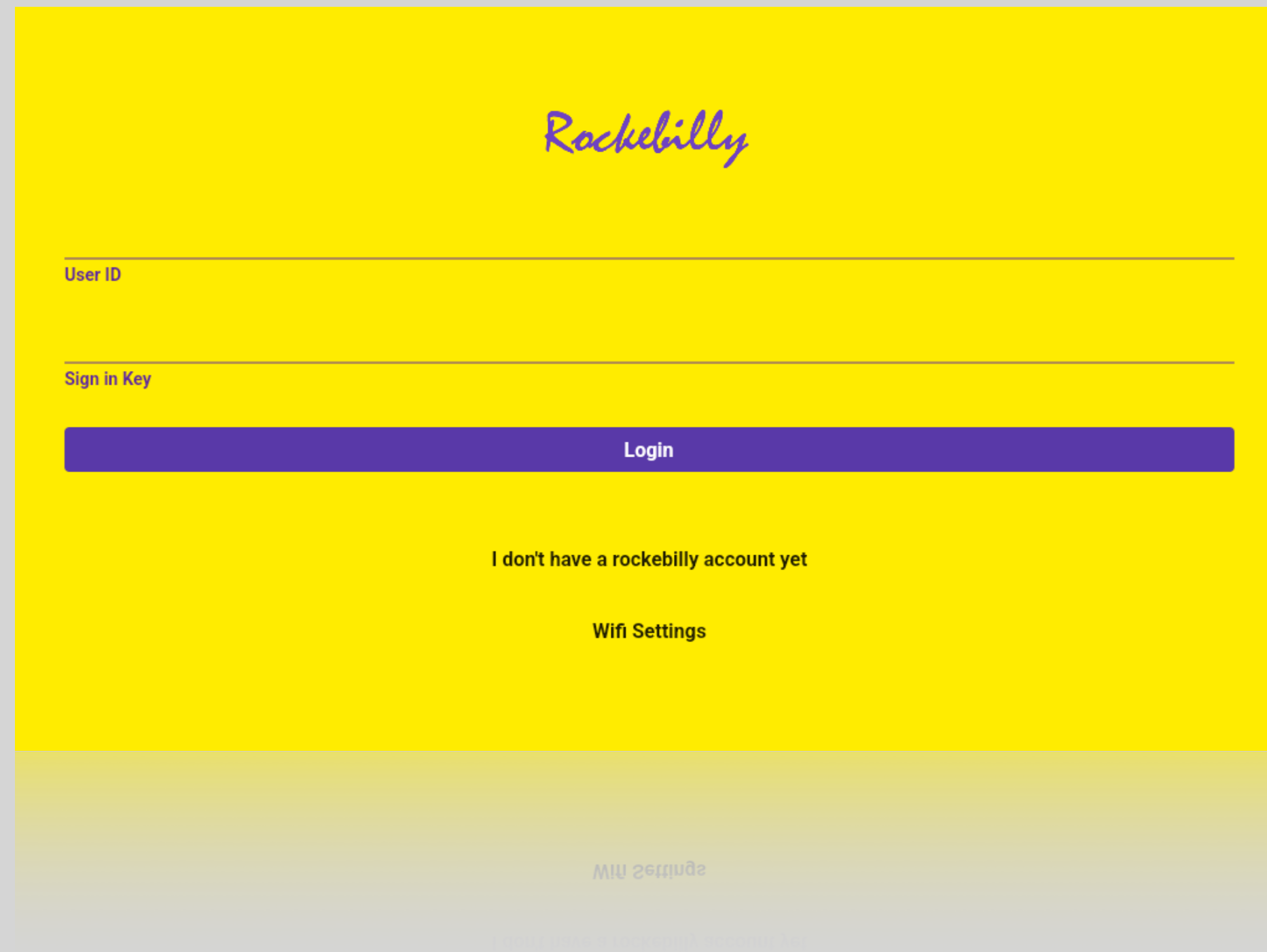
You can also press and hold the screen on/off button to shut down the box or turn it on when the on/off switch is set to "on".



Set up Wi-Fi

Click on Wi-Fi settings

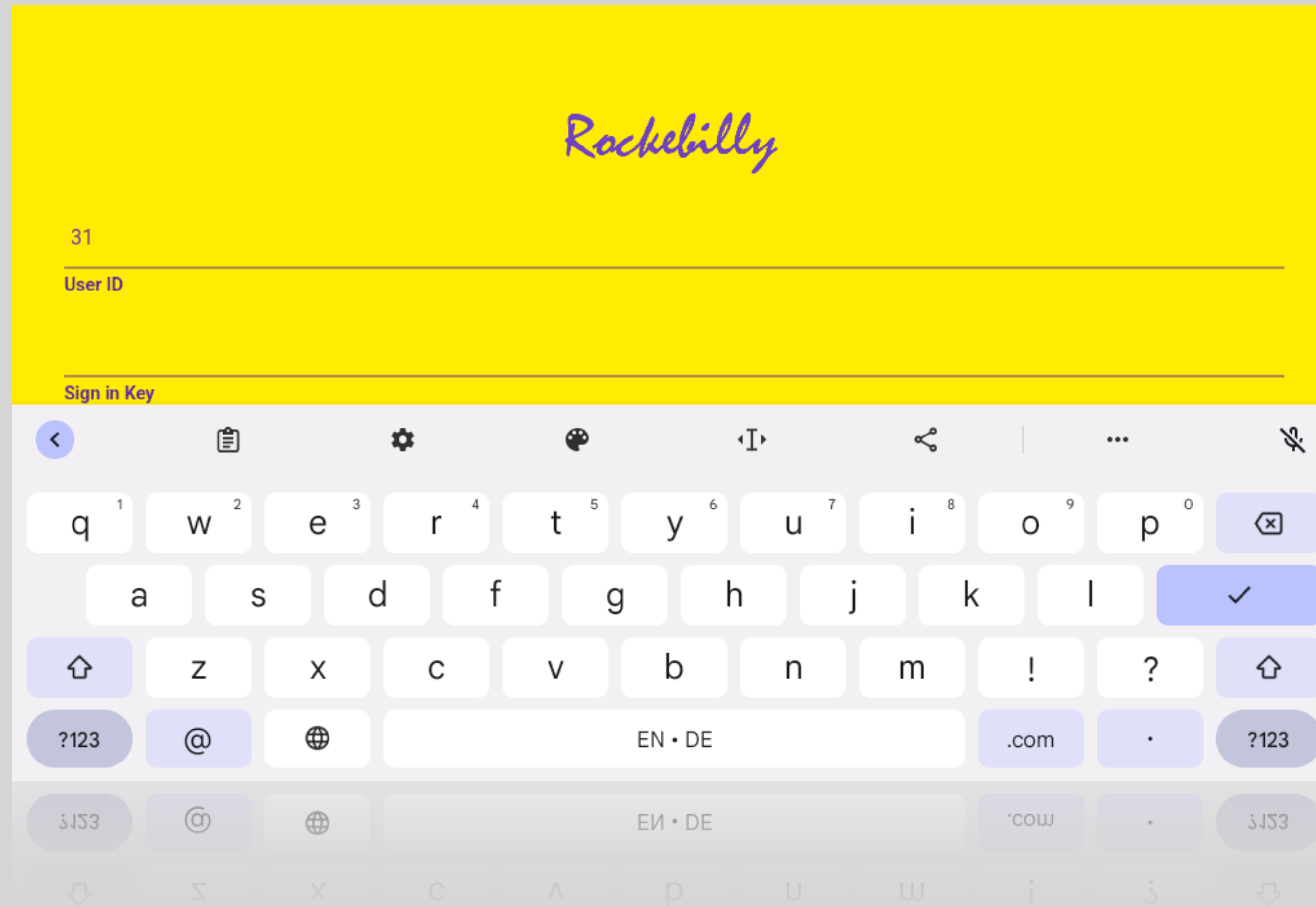
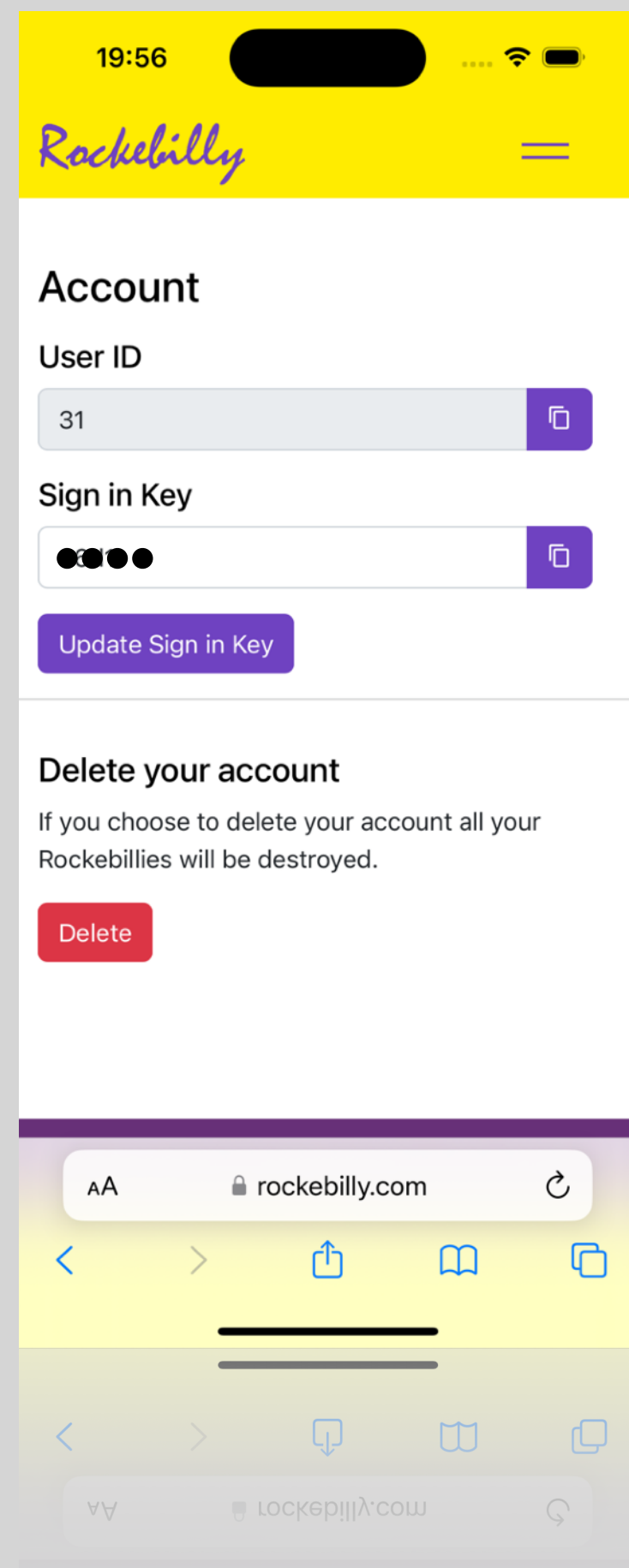
The device is based on Android. Click to go directly to the WiFi settings of the Android system



Log in to the box

You can find your access data on rockebilly.com under Account

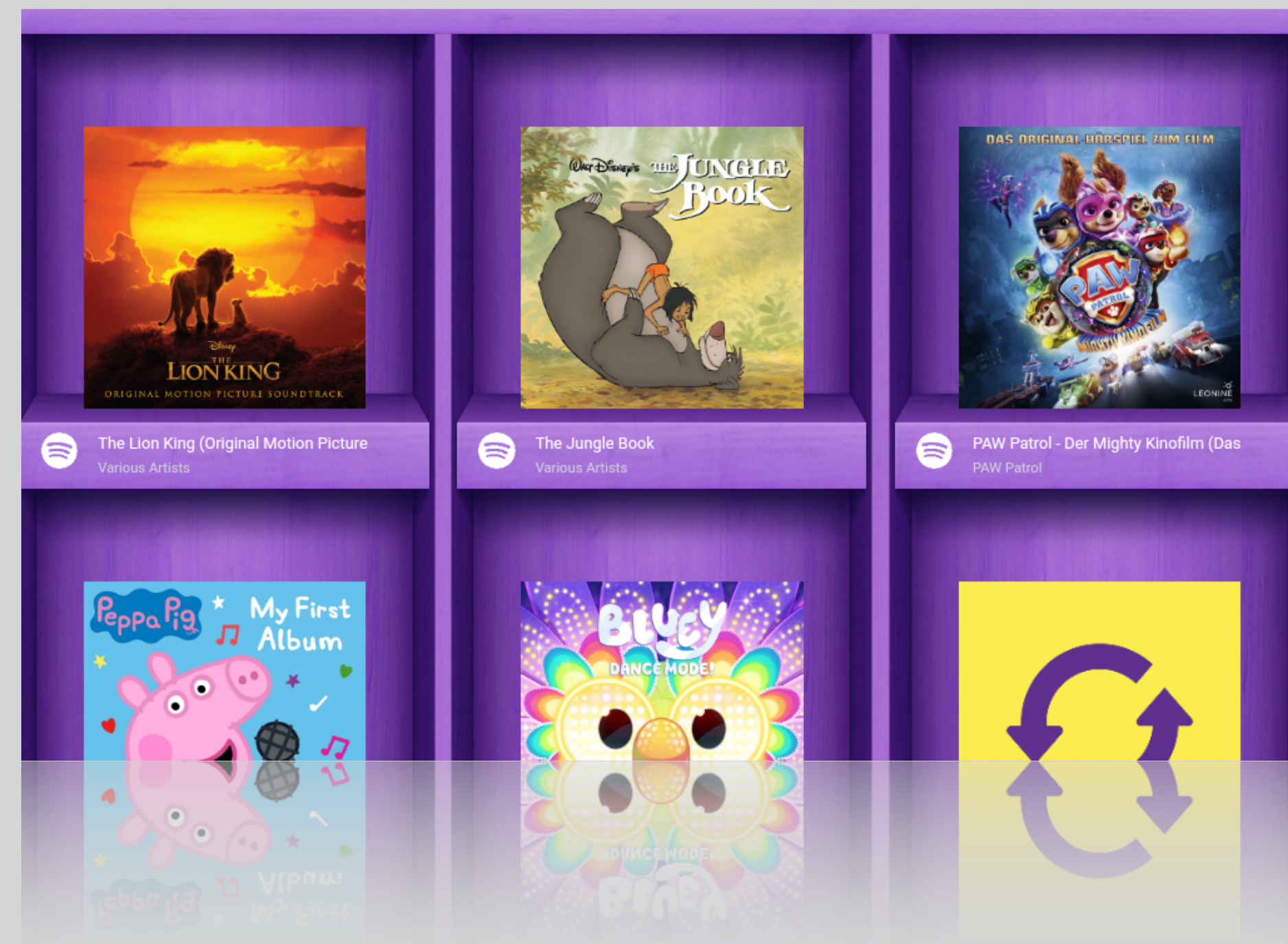
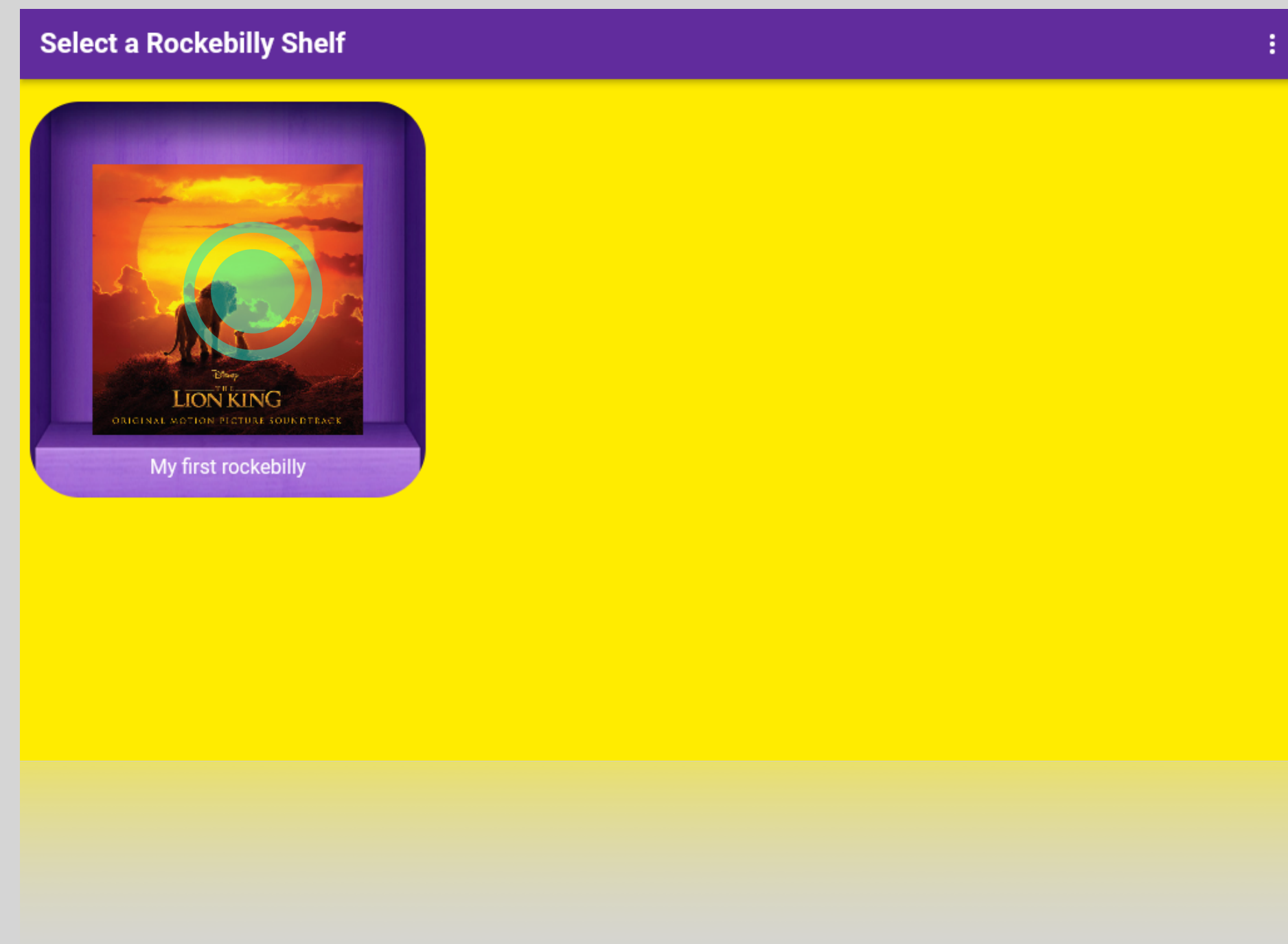
You can always call up the shelves on your cell phone and even save them on your home screen.



Select and open the shelf

All your shelves are displayed on this screen.
Tap on one to open it.

If you delete or add a shelf on Rockebilly.com, you can simply refresh the view using the back button.

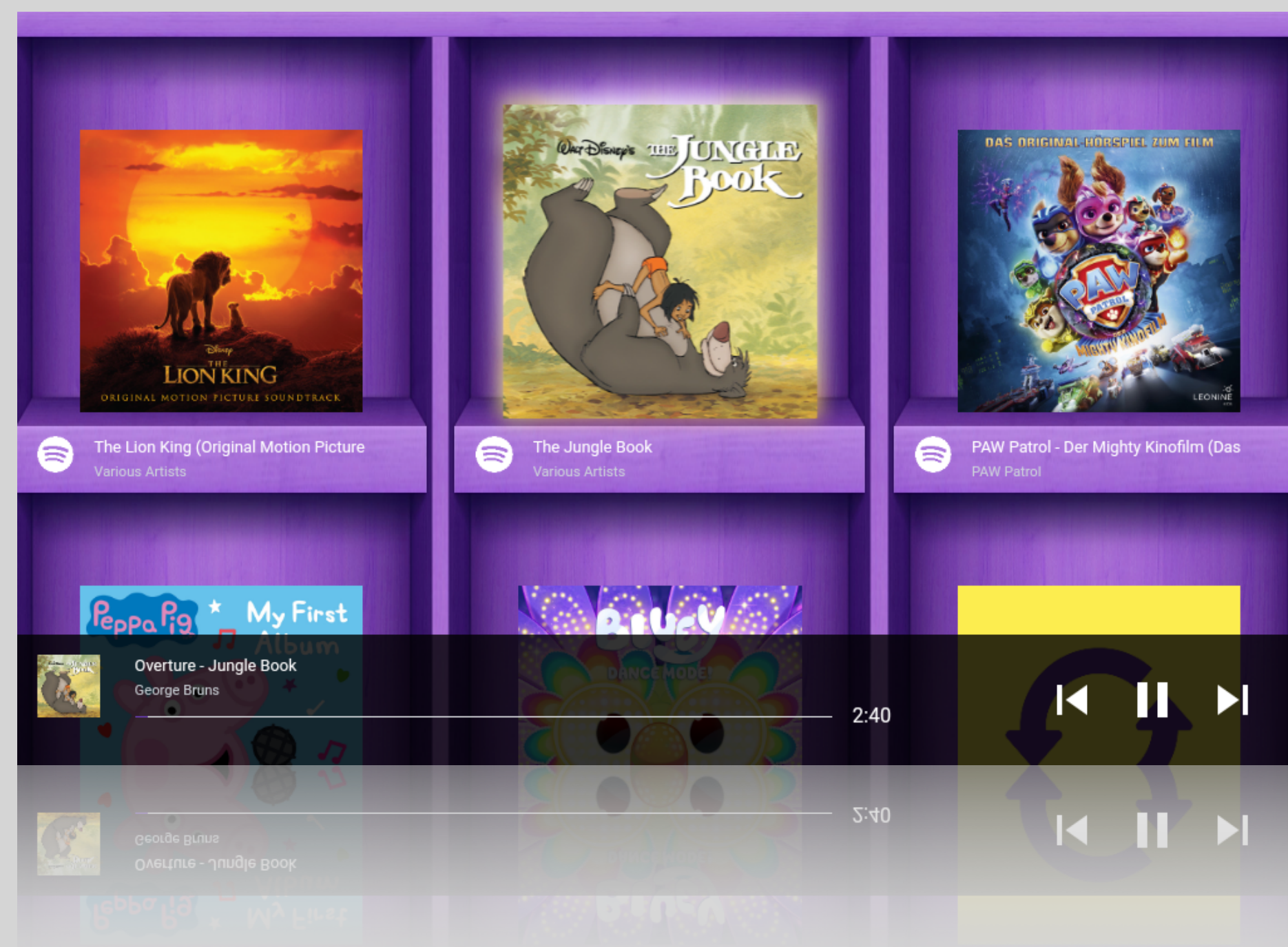
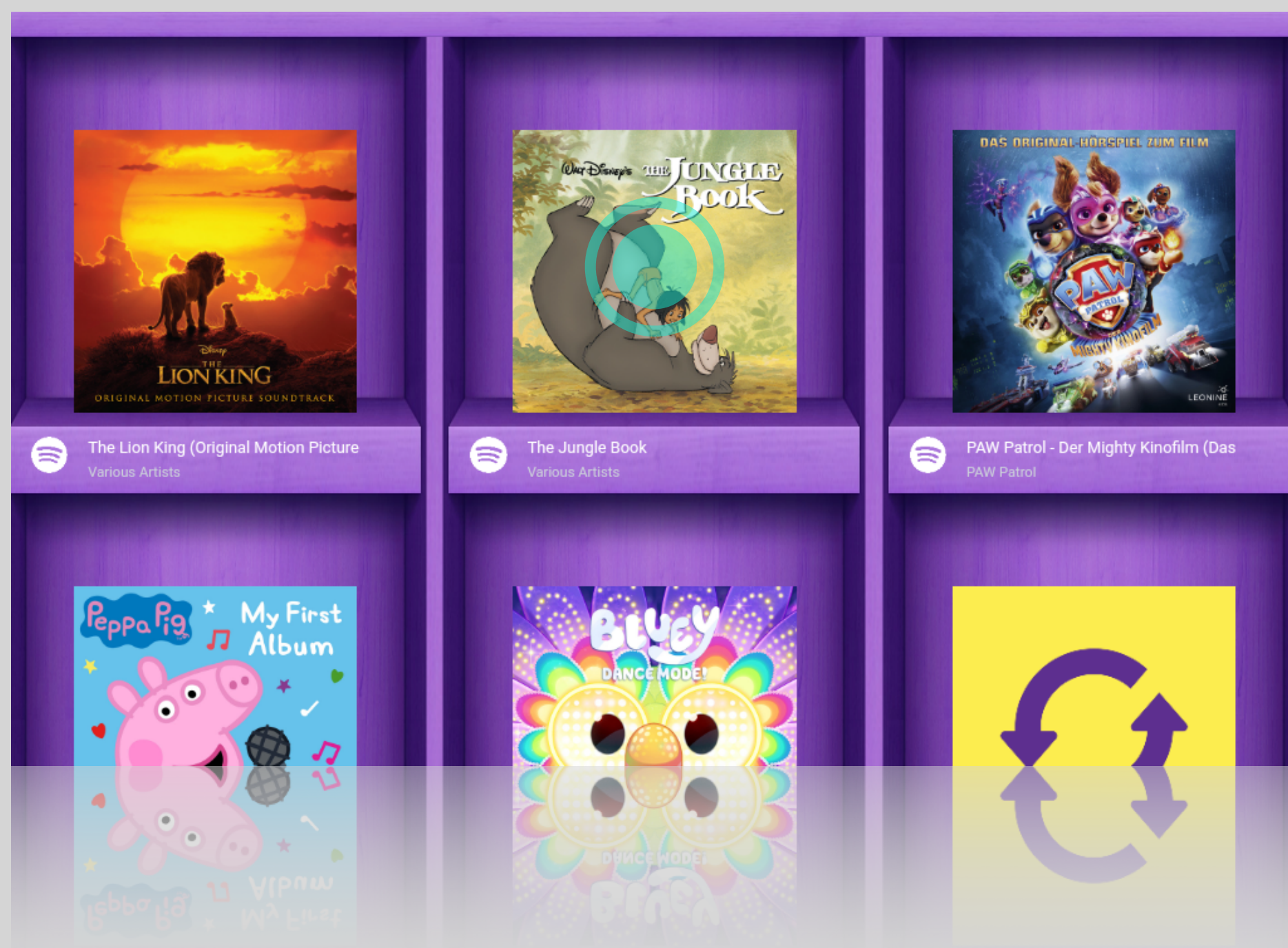


Playing a record

Tap on a cover image to play the record.

To pause, simply press pause or press the cover image again.

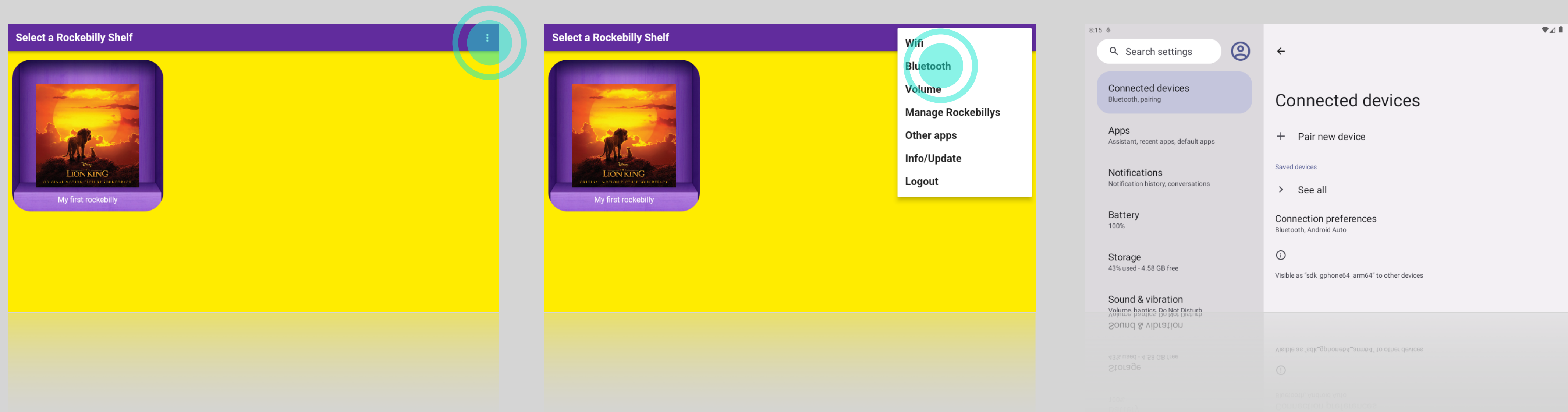
The box also remembers the playback position in audio plays and audio books for 30 minutes, so that you don't have to accidentally start from the beginning if you make a mistake.



Connecting devices (headphones, controller) via Bluetooth

In the shelf selection, click on the 3 dots at the top right, then on "Bluetooth"

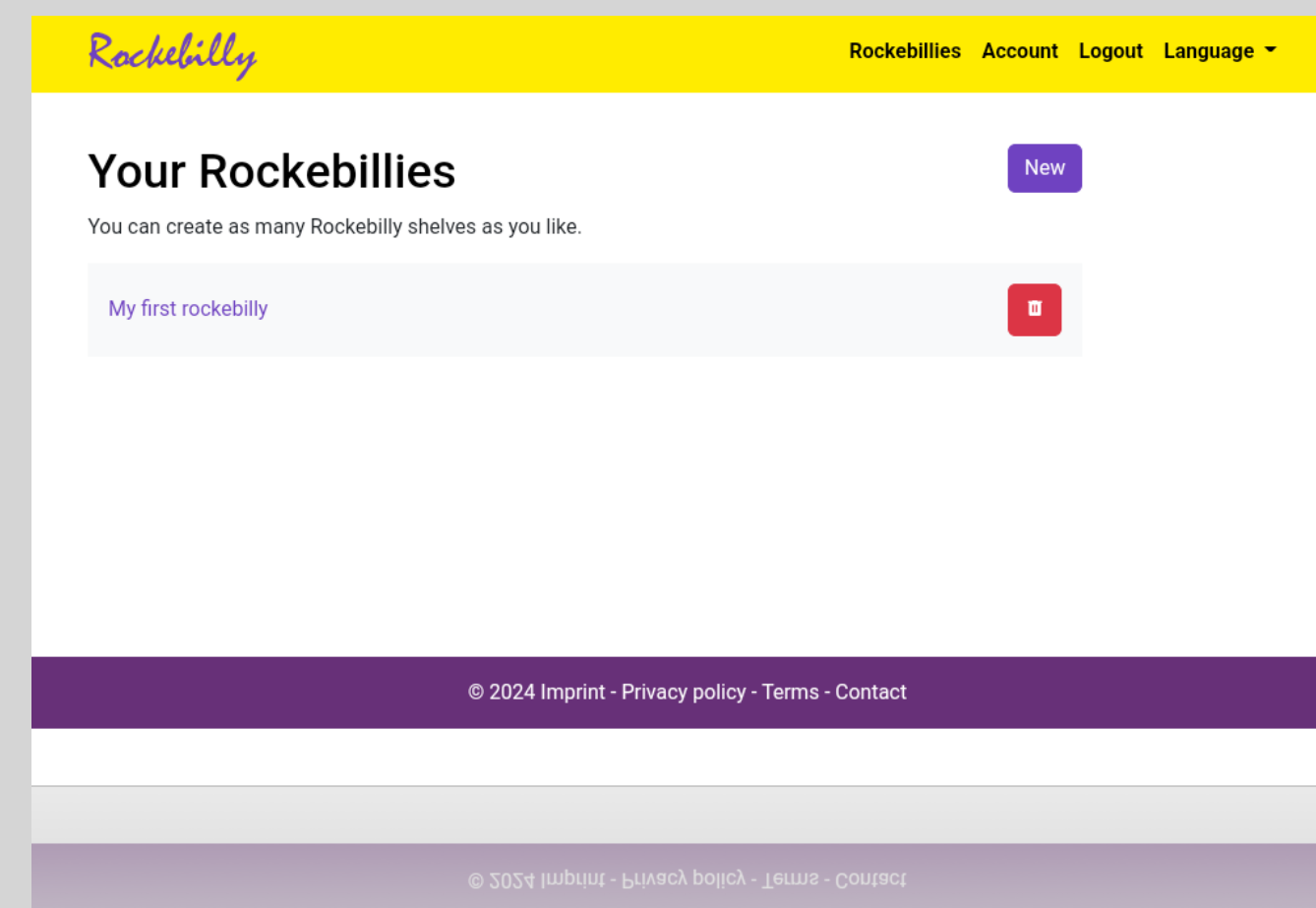
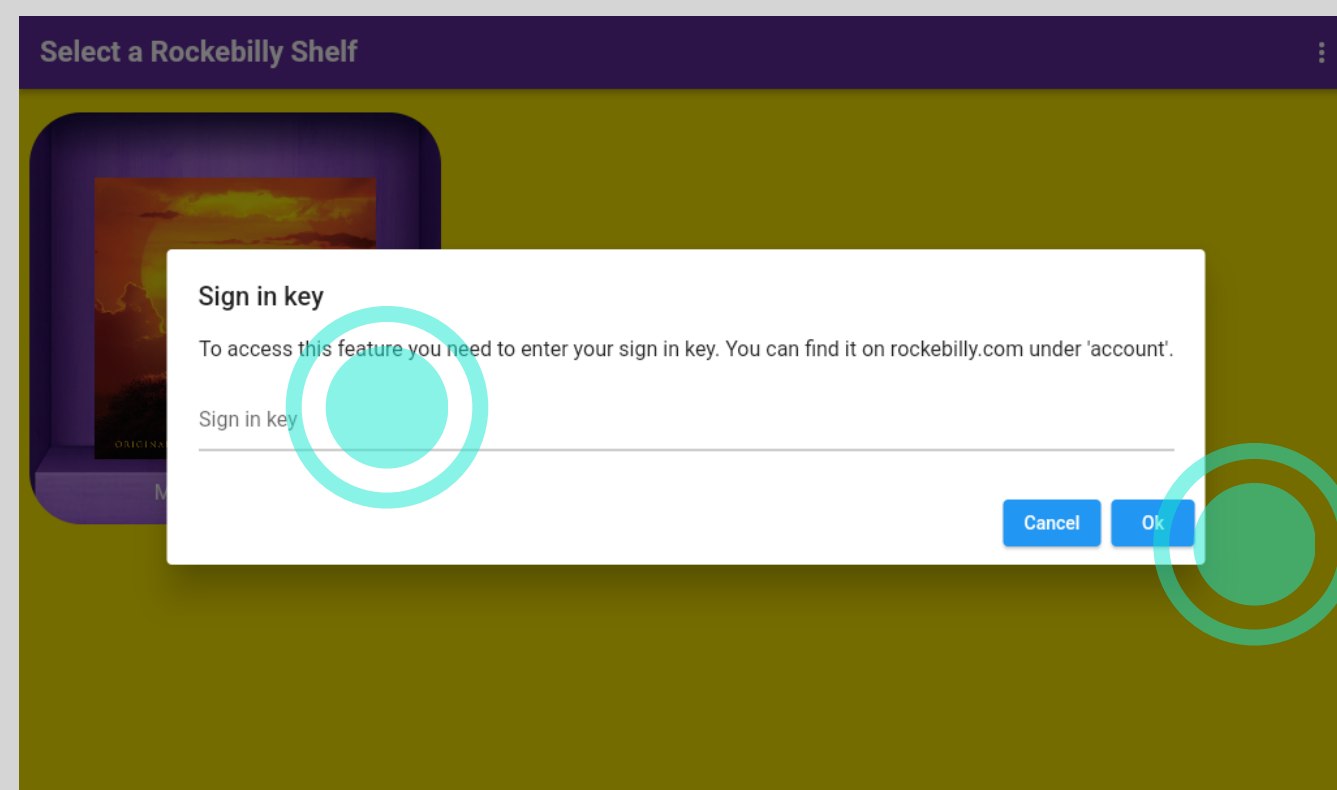
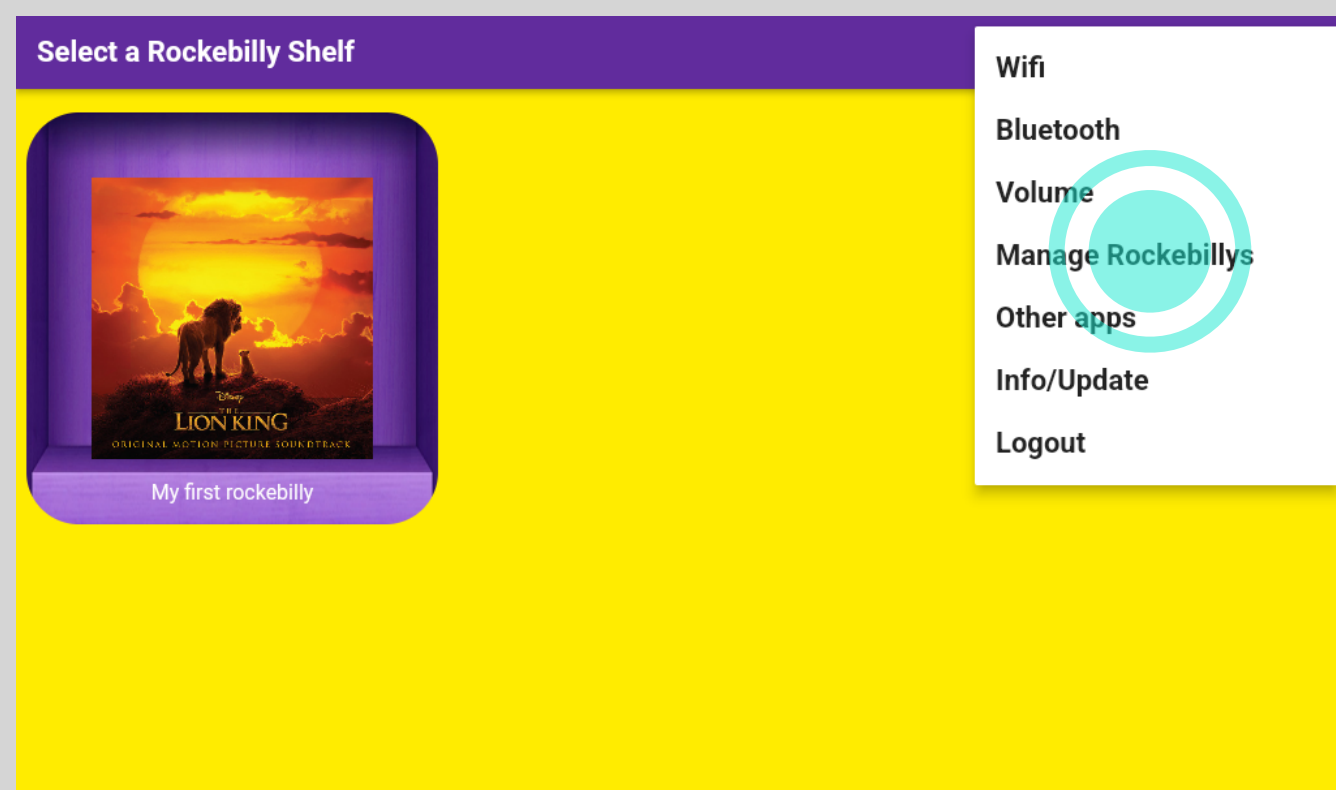
The Rockabilly Box is based on Android. Click to go directly to the Bluetooth settings of the Android system



Managing shelves on the box

In the shelf selection, click on the 3 dots at the top, then on "Manage Rockebillys"

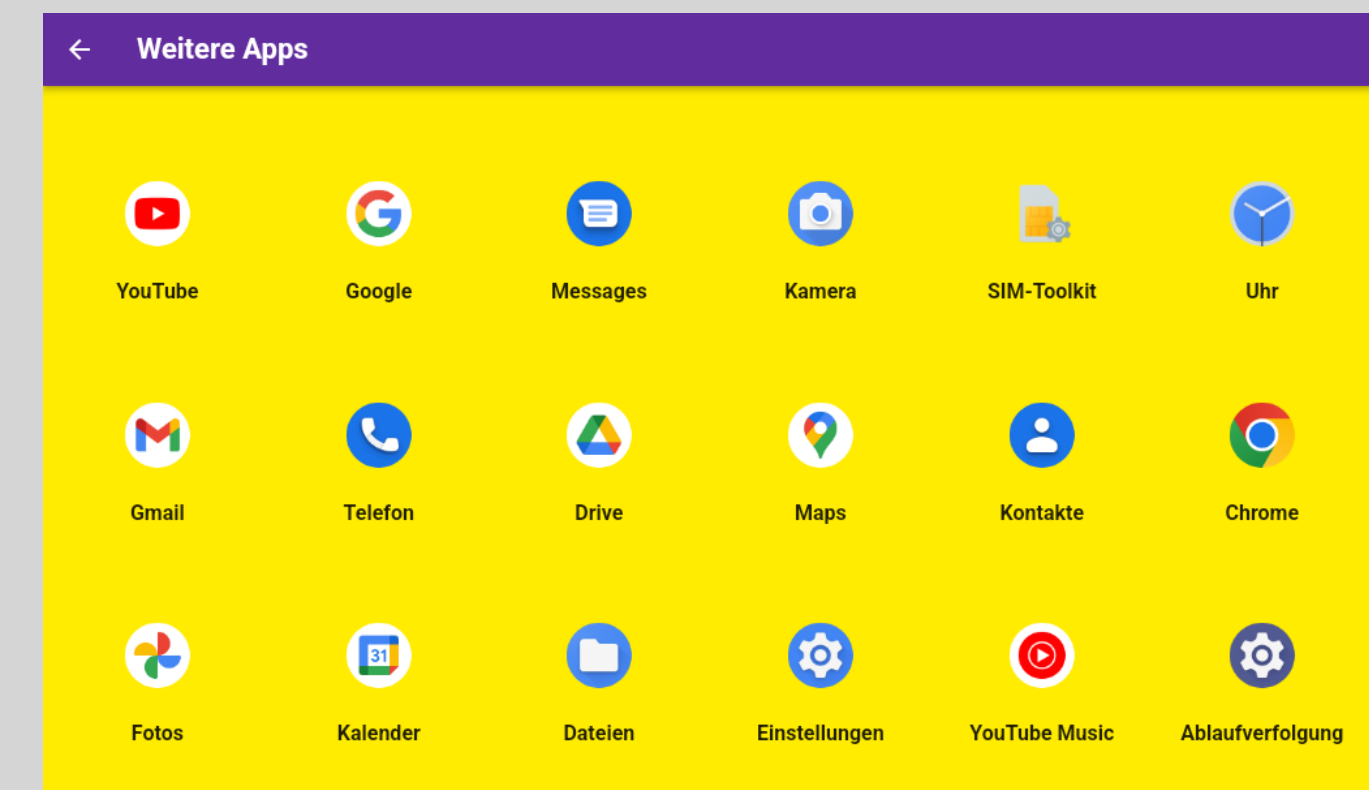
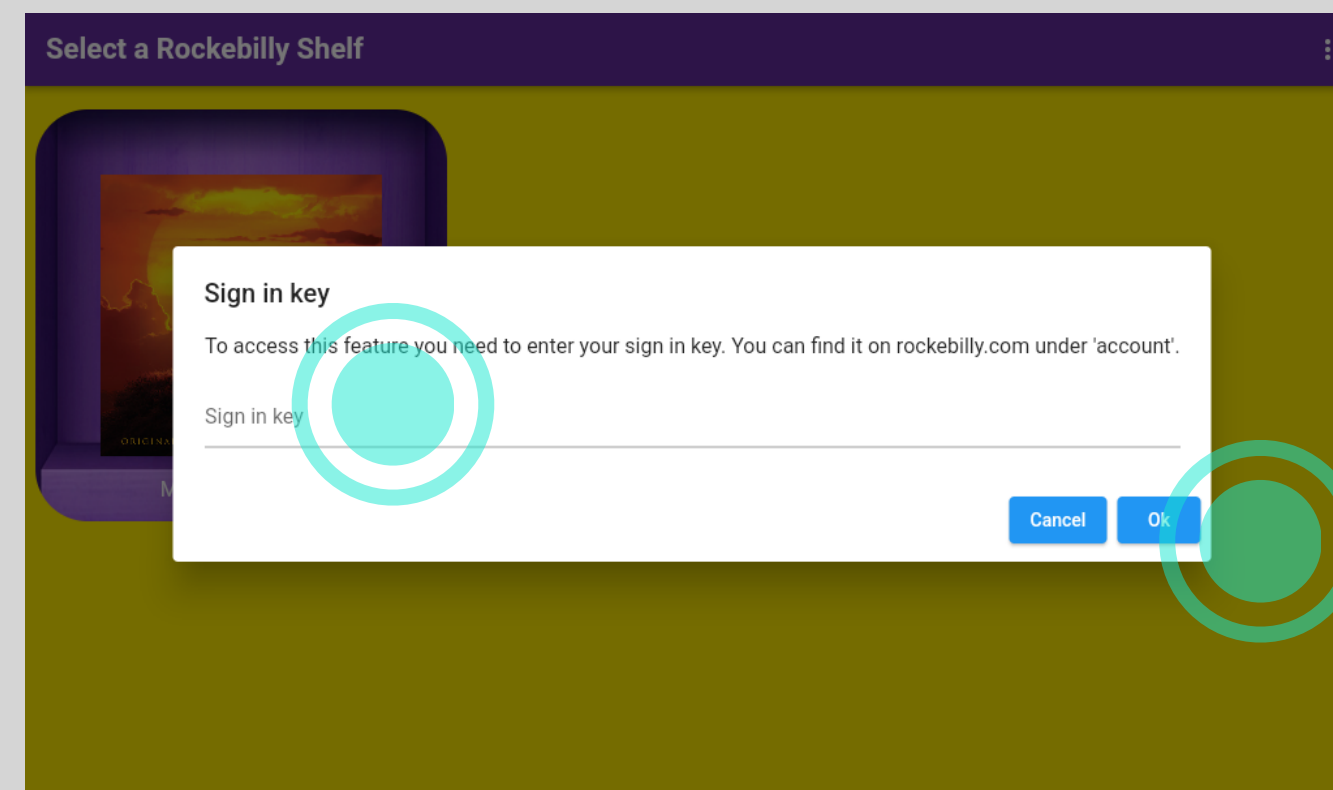
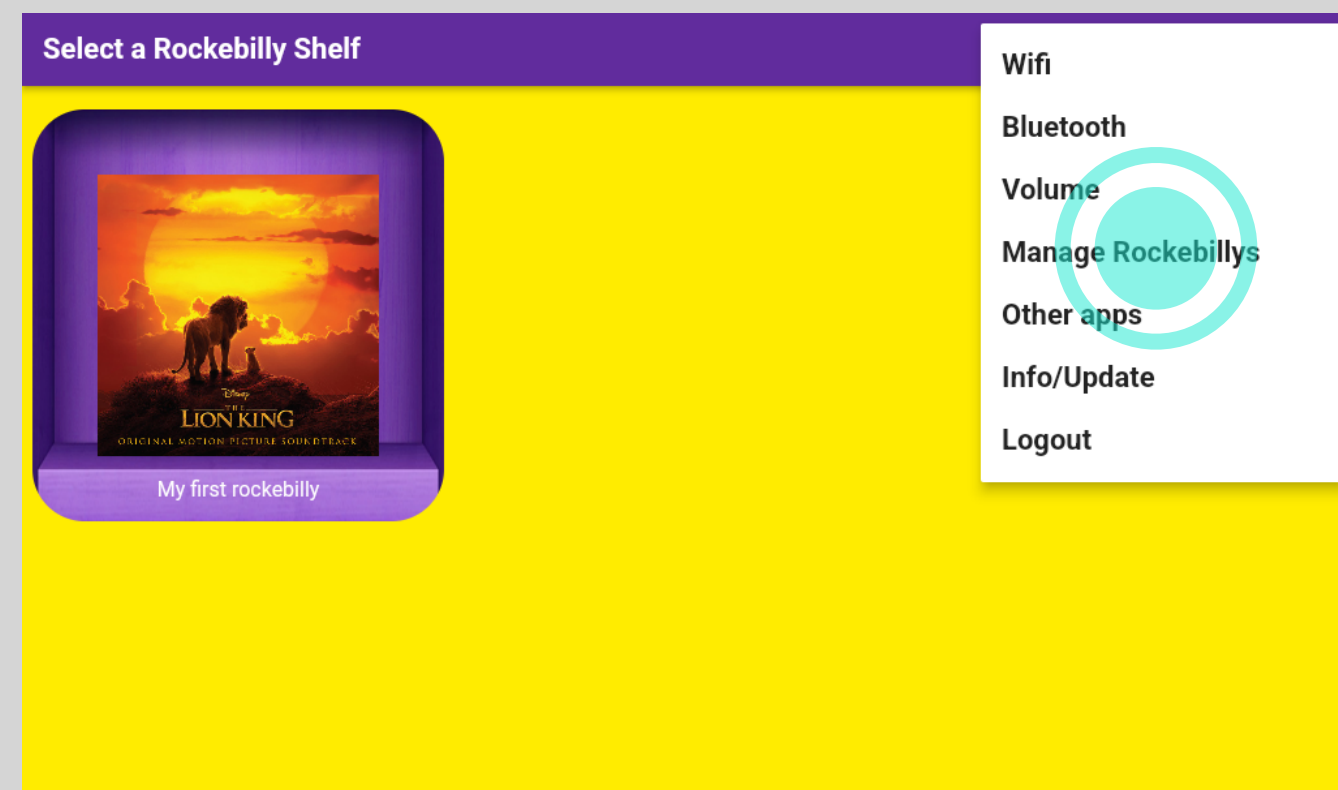
As a parental control, you will be asked to enter the login key again, then you will be redirected to the web interface on rockabilly.com and logged in directly. This allows you to create, edit and delete Rockebillys on the box.



Use other apps

In the shelf selection, click on the 3 dots at the top, then on "More apps"

As a parental control, you will be asked to enter the login key again, then you can use a browser (Firefox) and some emulator apps. For the emulator apps, you can download older console games, so-called ROMs. With a connected Bluetooth controller, the Rockebilly Box becomes a small games console.



Install additional apps Video tutorial

<https://youtu.be/YYG80Ohe0dY>

Further help

You can find more videos on our YouTube channel that show you what the box can do. For example, play videos via YouTube, install additional apps or play old video games.

<https://www.youtube.com/@rockebilly>

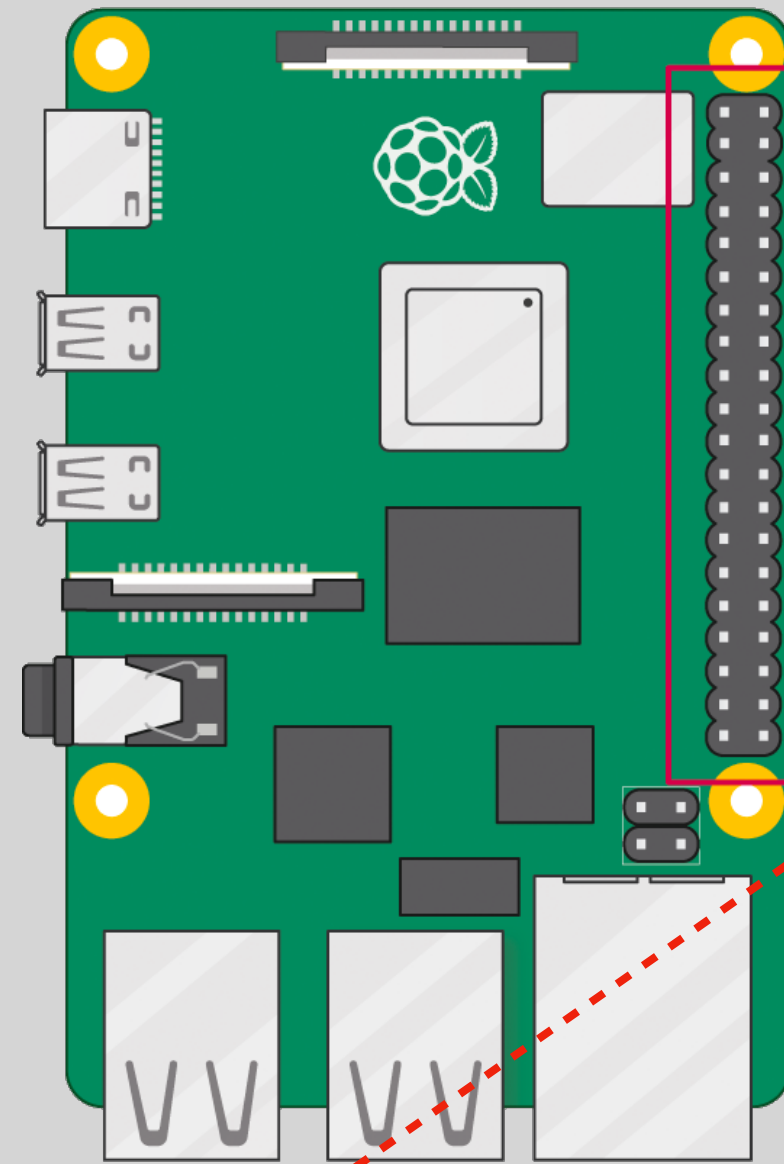
Troubleshooting

We collect all problems and provide solutions at <https://www.rockebilly.com/box/fehler>.



Wiring overview

Here you can see how the cables are connected to the ribbon cable and to which pin pin they must be connected to.



3V3 power	1	2	5V power
GPIO 2 (SDA)	3	4	5V power
GPIO 3 (SCL)	5	6	Ground
GPIO 4 (GPCLK0)	7	8	GPIO 14 (TXD)
Ground	9	10	GPIO 15 (RXD)
GPIO 17	11	12	GPIO 18 (PCM_CLK)
GPIO 27	13	14	Ground
GPIO 22	15	16	GPIO 23
3V3 power	17	18	GPIO 24
GPIO 10 (MOSI)	19	20	Ground
GPIO 9 (MISO)	21	22	GPIO 25
GPIO 11 (SCLK)	23	24	GPIO 8 (CE0)
Ground	25	26	GPIO 7 (CE1)
GPIO 0 (ID_SD)	27	28	GPIO 1 (ID_SC)
GPIO 5	29	30	Ground
GPIO 6	31	32	GPIO 12 (PWM0)
GPIO 13 (PWM1)	33	34	Ground
GPIO 19 (PCM_FS)	35	36	GPIO 16
GPIO 26	37	38	GPIO 20 (PCM_DIN)
Ground	39	40	GPIO 21 (PCM_DOUT)

