

CLOVER

THE HANDY HANDBOOK

REV1.0



WELCOME

First and foremost, thanks for being part of the Clover family.

I know there are a lot of ways to enjoy music, but I missed the feeling of throwing in a favorite cassette and wanted to recreate that for my kids.

I hope this becomes a household favorite for you and yours!

GETTING STARTED

LOAD IT IN

Insert a Clover Card into the slot

TURN IT ON

Slide the power switch down

TURN IT UP

Turn the volume knob clockwise

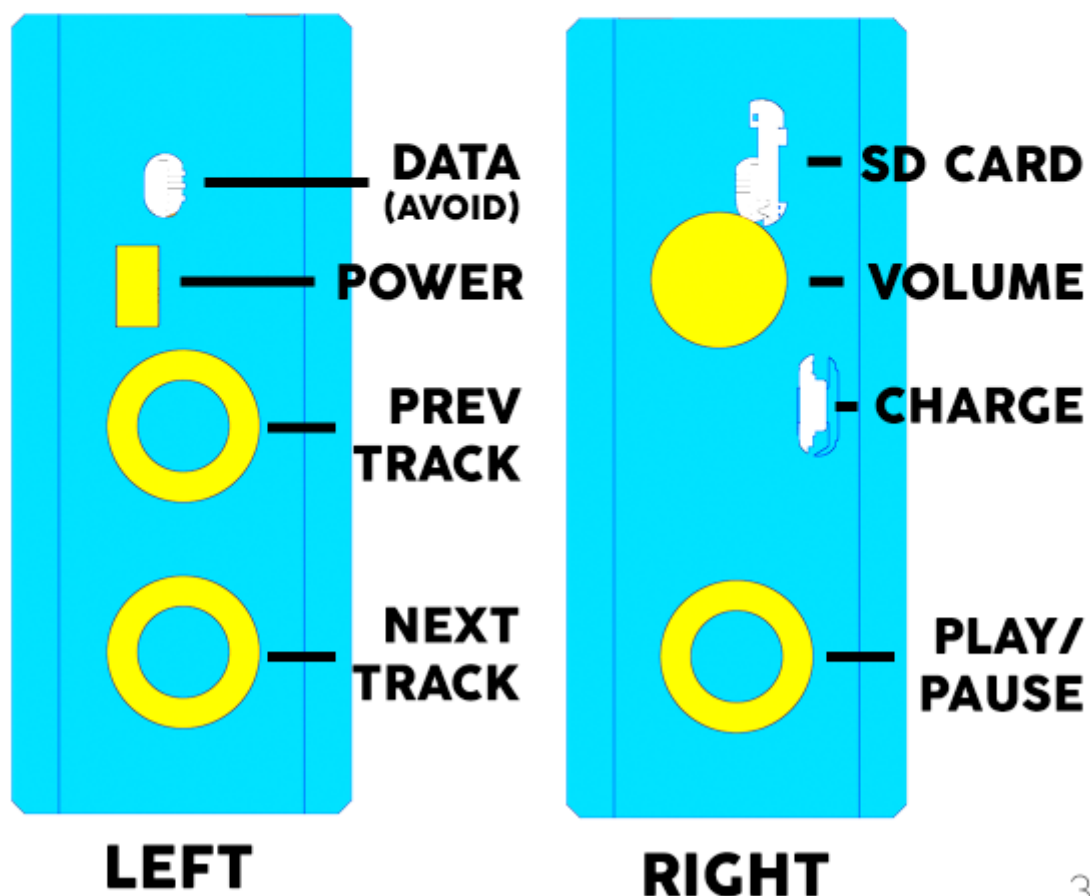
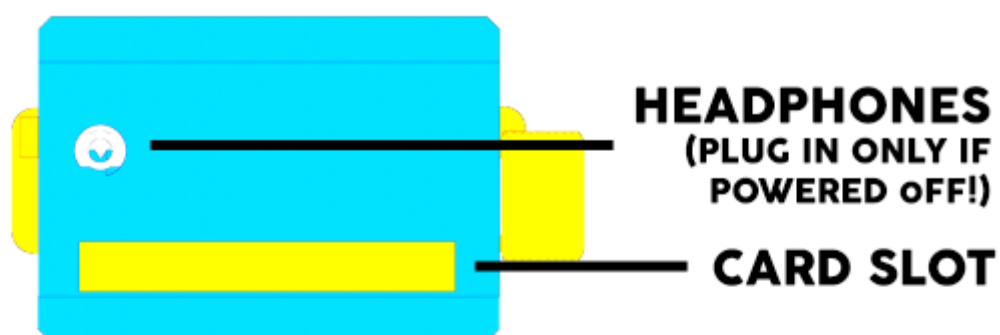
CHARGE IT UP

Supply power via 5v USB-C

GIVE IT A LISTEN

Use the buttons to navigate

TOP



MAKE YOUR OWN

GET YOUR AUDIO FILES

Clover plays MP3s. I like to use a free YouTube to MP3 converter for most of my files. Many podcasts also make their files available for free. The free audio application Audacity is good for format conversion.

STRUCTURE THE FILES

Each card has a two digit numbered folder (01–99) at the root of the SD card, and the files in that folder should be prefixed with a three digit track number (e.g. “001_MyCoolTrack.mp3”).

PROGRAM YOUR NFC CARD

Blank NTAG 215 cards like these:

<https://a.co/d/6GYOXXI>

can be programmed using a free iPhone or Android app called "NFC Tools". Use it to write one text record in this format:

`01-10-00, ffffffff1, ffffffff2`

`01`: folder number

`10`: number of tracks

`00`: `00` for normal, `01` for shuffle

`fffffff1`: hex color 1

`fffffff2`: hex color 2

TROUBLESHOOTING

“Seems like my Clover is on, but it’s not playing anything.”

- Battery could be dead (currently no low battery indicators), so give it a charge. It may not be able to charge fast enough to charge and play at the same time.
- Volume may be low, so turn it up
- Headphones may have been plugged in or removed while on. This shorts the battery :(. To reset, turn the power off, connect USB-C.
- Volume may be too high. I’ve experienced times when having the volume at max causes power issues occasionally. Try turning it down a notch.

“I’ve broken a piece of my Clover. What do I do now?”

- If it's a 3D printed part, let me know and I'll send you another one. The STLs are available on GitHub if you want to print it yourself

“I don't like the way this works. Can I change it?”

- The Arduino code is available on GitHub. If you're feeling ambitious, you're welcome to tinker! Make sure to keep the power switch off while you do.

“My blank cards are boring. How can I make them cooler?”

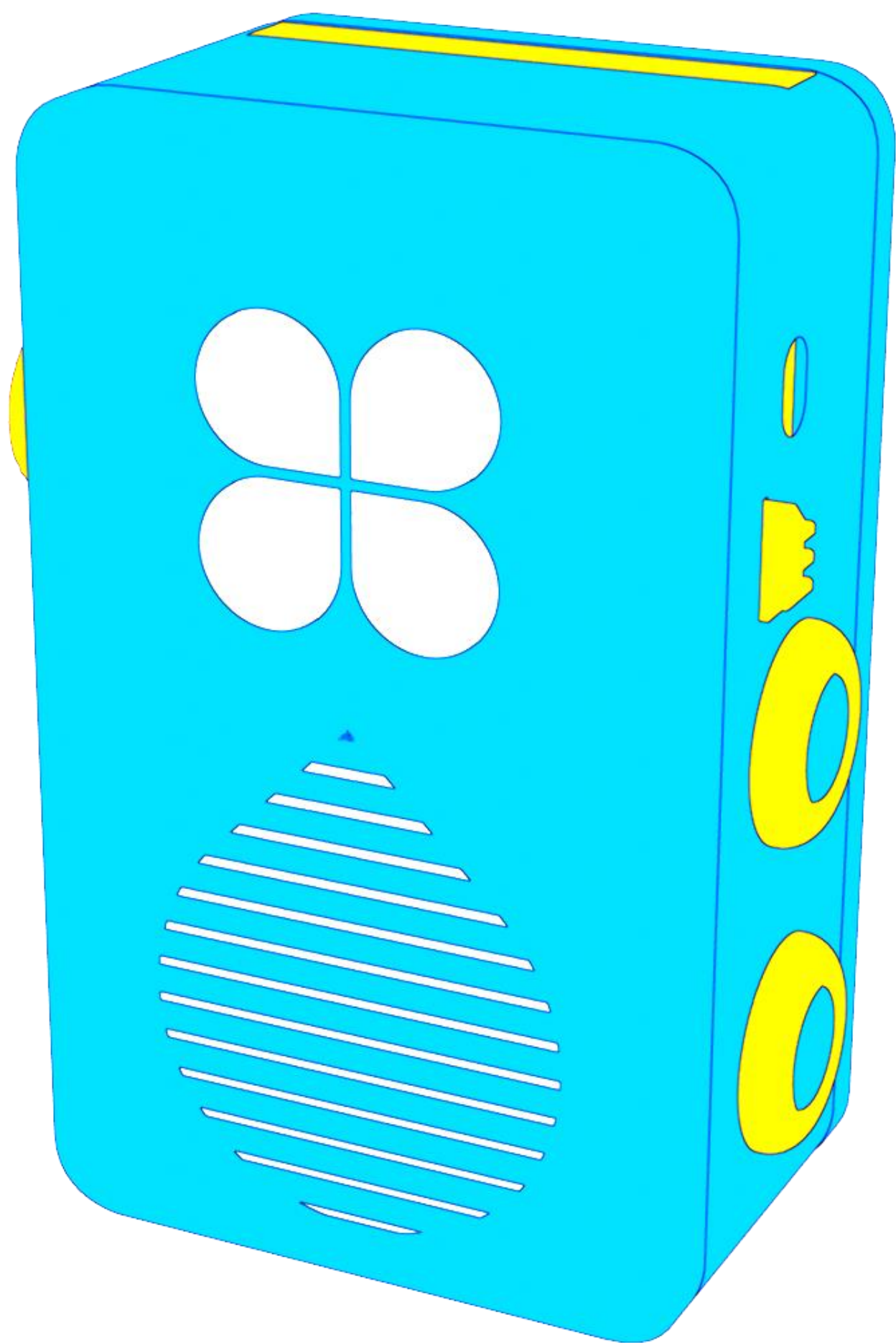
- I use a process called sublimation, but sticker paper or vinyl sticker cut with a Cricut would also work! Just try to keep the card thin so it doesn't jam.

QUESTIONS?

Email me at
czalin@gmail.com

GitHub

<https://github.com/czalin/Clover>



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