

**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

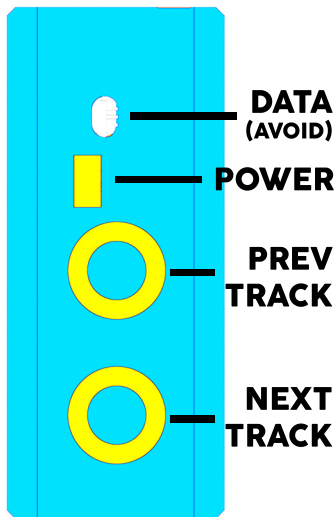
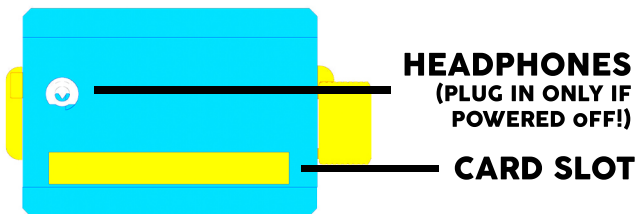
## **CHARGE IT UP**

Supply power via 5v USB-C

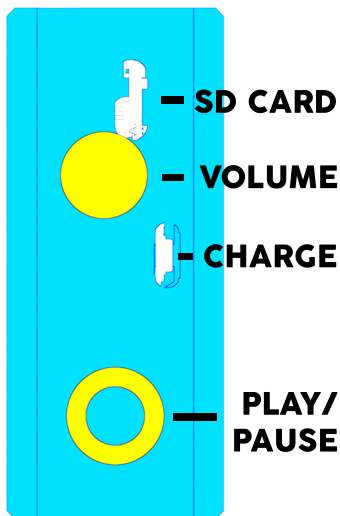
## **GIVE IT A LISTEN**

Use the buttons to navigate

## TOP



## LEFT



## RIGHT

# **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?”**

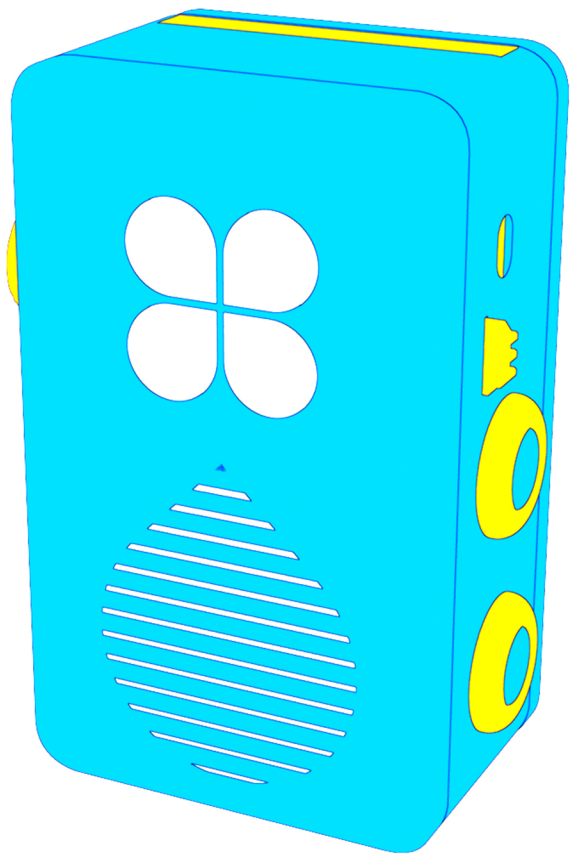
- I use a process called sublimation, but sticker paper or vinyl sticker cut with a Cricut would also work! Just try to keep the card thin so it doesn't jam.

# QUESTIONS?

Email me at  
czalin@gmail.com

## GitHub

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



**A PRODUCT BY**  
**CASIN**