

# Vail Adapter Setup

## Open Vail Repeater/Server

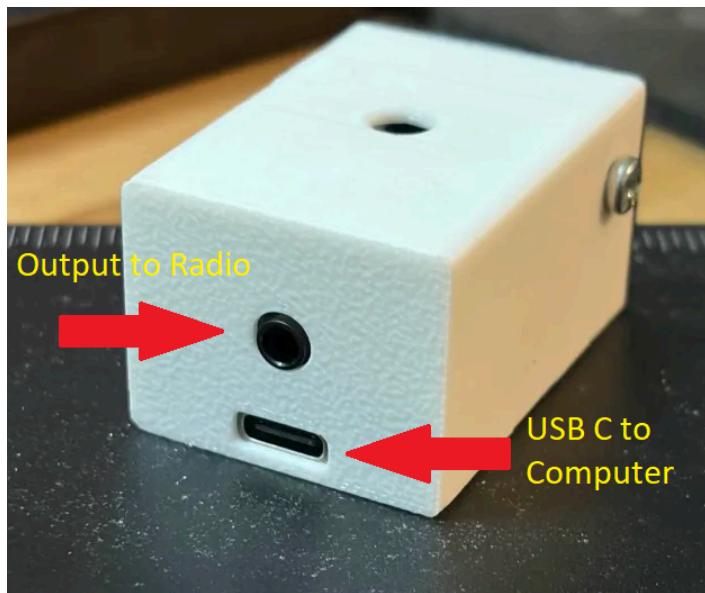
Open your browser and navigate to

<https://vail.woozle.org/>

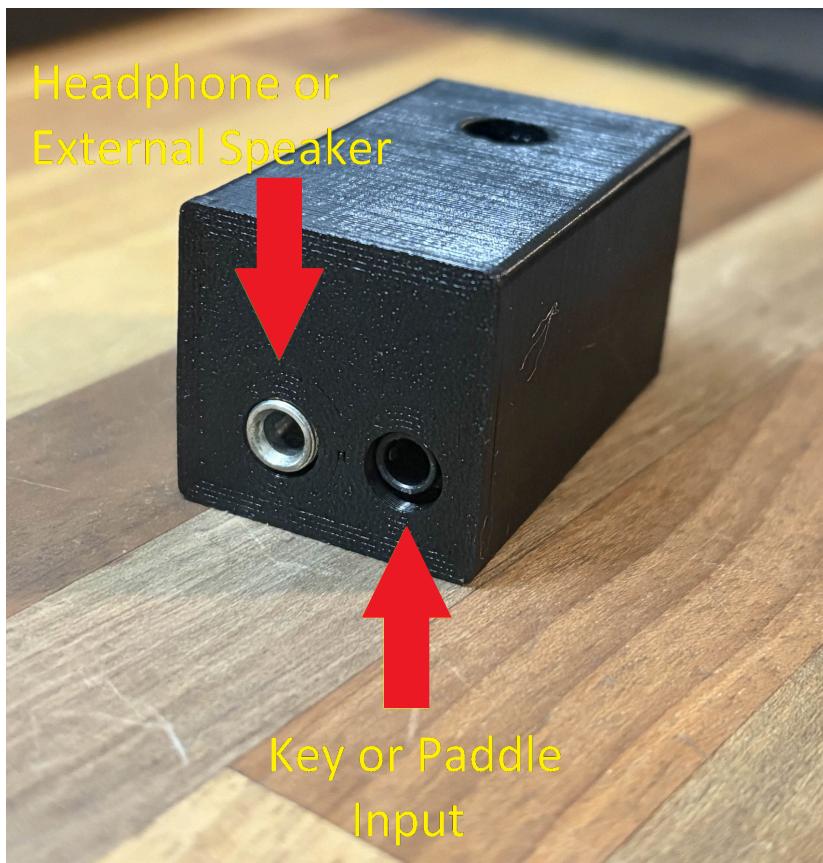
## Wired Connections

Connect the Vail Adapter to your computer using a USB C cable.

**Note the Output to Radio is only on the Advanced Vail Adapters**

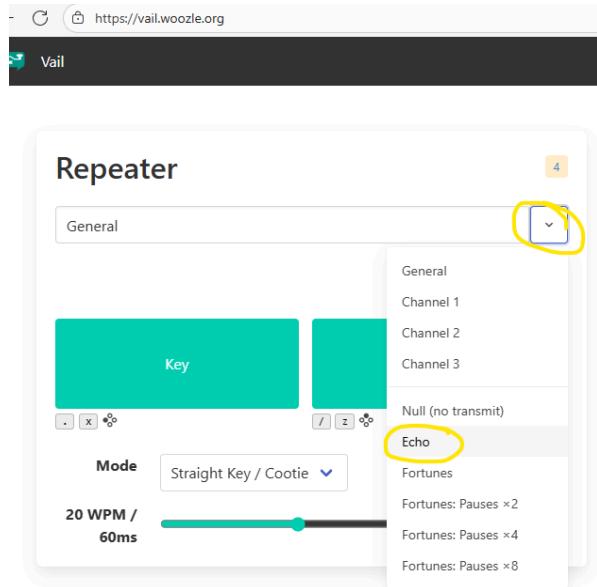


Connect your key/paddle to the adapter into the key/paddle aux port(**black ring**) on the adapter  
Note the silver ring aux port is for headphones or an active external speaker. Inserting anything into the silver ring aux port will mute the internal side tone buzzer



# Adapter Settings

In the Vail Repeater/Server Website Navigate to Echo

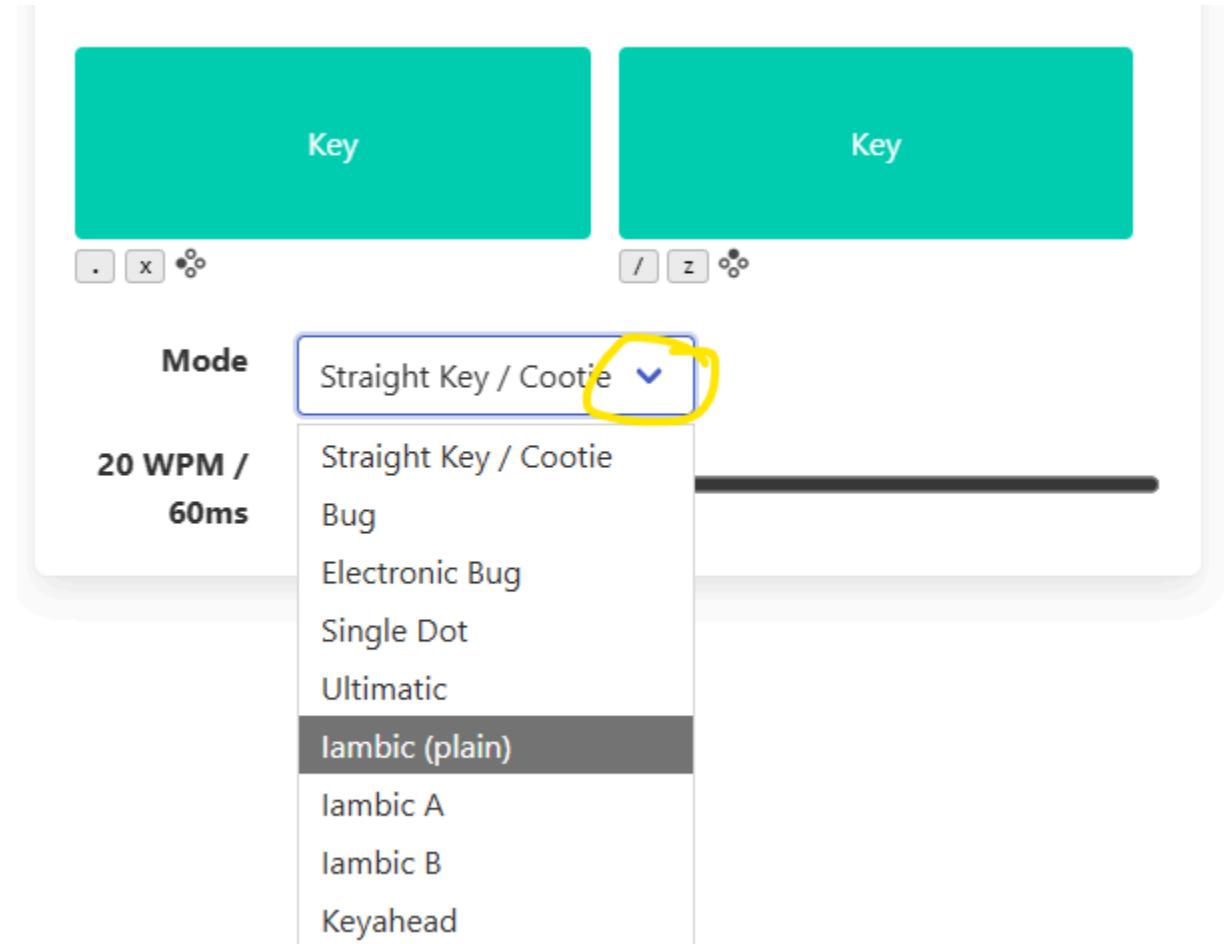


In this mode you should be able to send code and it will echo it back to you. Doing this you will be able to tell if your adapter is in Straight, Iambic, or other modes.

## Key Mode

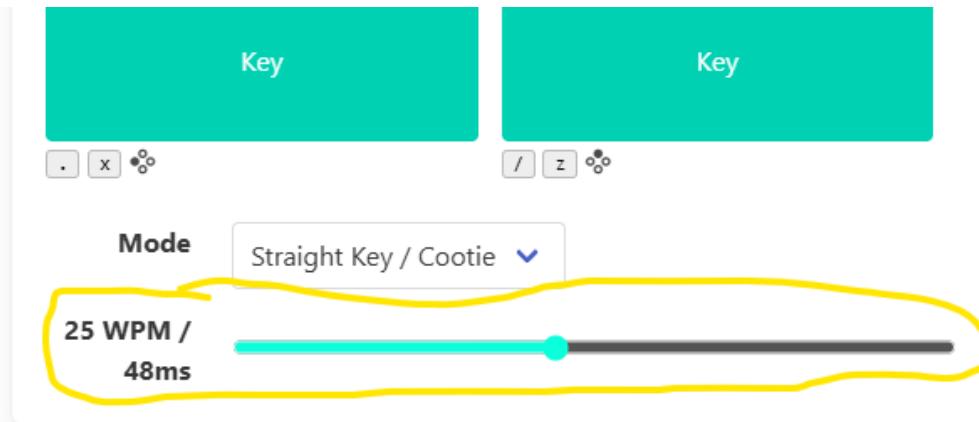
Change the mode to what you prefer:

**Note: If you have a paddle you can use it as a straight key if you want**



## Speed

If using a mode, like Iambic, that requires a keyer speed set that now with the slider bar



## Side Tone Frequency

Set the side tone frequency by changing the tx tone slider:



## Rx Tone Frequency

The Morse game does not currently use the Rx tone generation on the vail adapter. This is only used when communicating with others on the Vail Repeater



## Save All Setting

Close the vail repeater website and disconnect and reconnect the adapter from/to the computer. This power cycle stores the settings to the Vail adapter and turns it back on in keyboard mode.

**NOTE: It is critical that you do not have the Vail Repeater Website open in any browser window or tab, when you plug the adapter in to get it to go into keyboard emulation mode**

# Use the Vail Adapter

## Vail Repeater website

Once the vail adapter is set up the way you want it. It's time to use it.

You can use it on the Vail Repeater Website <https://vail.woozle.org/> to try and make an internet QSO, practice decoding fortunes, or changes to the setup.

## Practice Oscillator

Use a usb power supply and a USB C cable(Data cable not required). This will power the Vail Adapter and you can use it as a practice oscillator. This is helpful if you are taking a CW class in person or over zoom and yourself or others just want to hear your code.

## Keyboard Based Morse code sites

Follow this guidance for Websites or applications that require keystrokes to be pressed when a key or paddle is used.

Close all browser tabs that have the Vail Repeater Site Open then connect the Vail adapter to the computer or smart phone. This puts the Vail Adapter in Keyboard Mode. The following are games/training aids that can be played with keyboard mode are described in greater detail below, but the in exhaustive list is

MORSE, <https://alexvsencoding.itch.io/morse>

Morse Invaders: <https://morseinvaders.com/>,

VBand Server: <https://hamradio.solutions/vband/>

RF Keeper: <https://ke9bos.com/>

Morse Code Battle Ship: <https://tools.hamradioduo.com/morse-battleship/>

Morse Code Checker: <https://tools.hamradioduo.com/cw-checker/>

Morse ATC: <http://morseatc.s3-website.eu-central-1.amazonaws.com/>

Morse Mania: Android and IOS

SmartSDR: IOS (This may require midi mode(Vail Repeater Website) not keyboard mode)

## [MORSE by Alex Johansson](#)

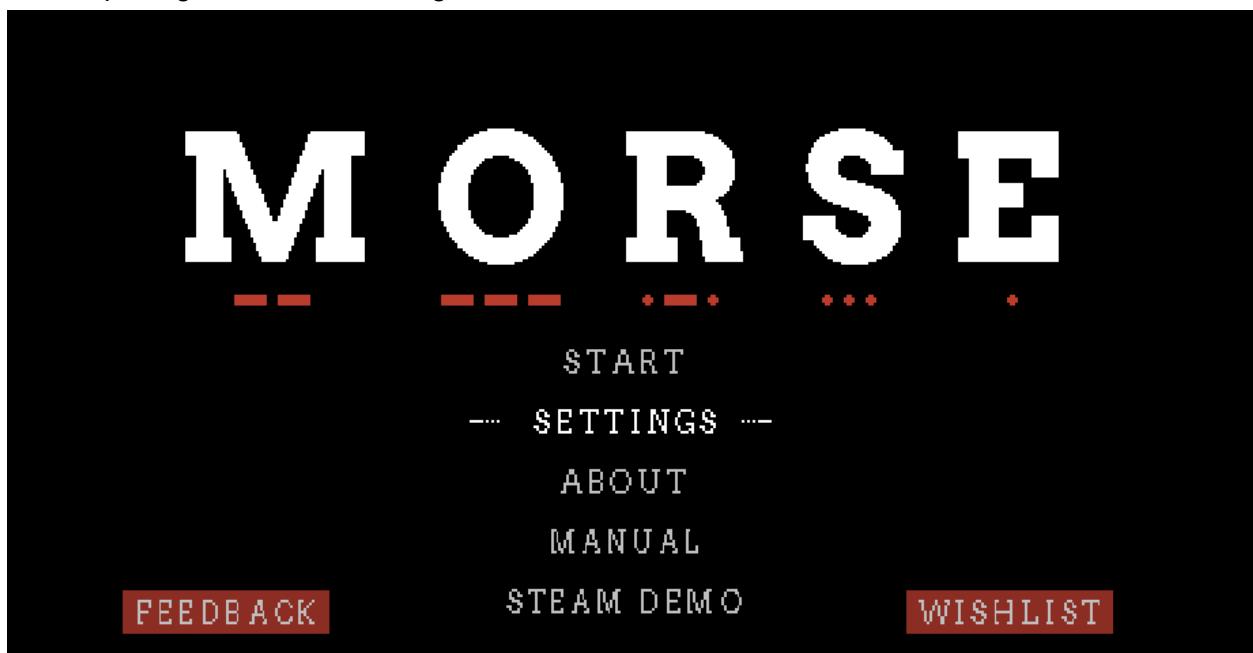


<https://alexvsencoding.itch.io/morse>

Morse is a game for windows PC available through Steam currently released as a demo. It is also available as a browser based game.

### Settings

At the opening menu click “Settings”

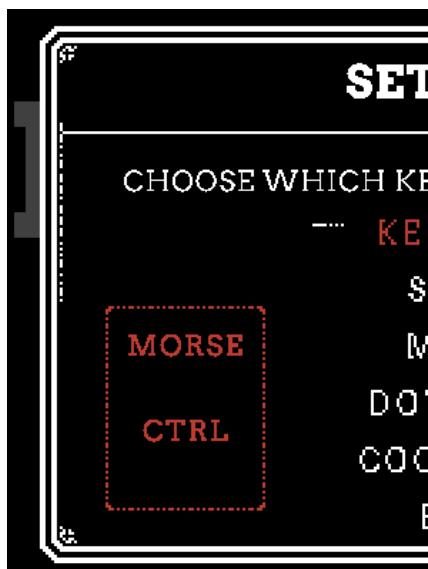


Key Binding

Click Key Bind



Click the Red box on the bottom labeled "Morse"



It should turn white and prompt for a key **DO NOT PRESS ANY KEY**



Press the Dit on the paddle or press the straight key. This should change the Morse "key" to "CTRL"

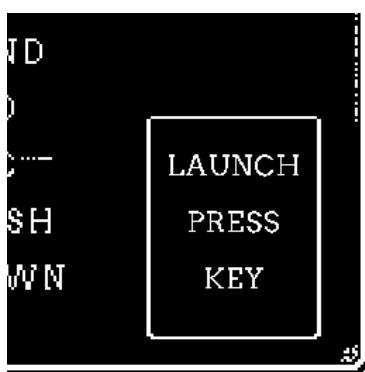
**NOTE if this doesn't bind to the "CTRL" key it means your Vail Adapter is not in keyboard mode. Check all your tabs in all your browses for the vail repeater website close it and disconnect and reconnect the Vail Adapter to the computer**



Click the red box in the lower right to bind a key to the “Launch” Command



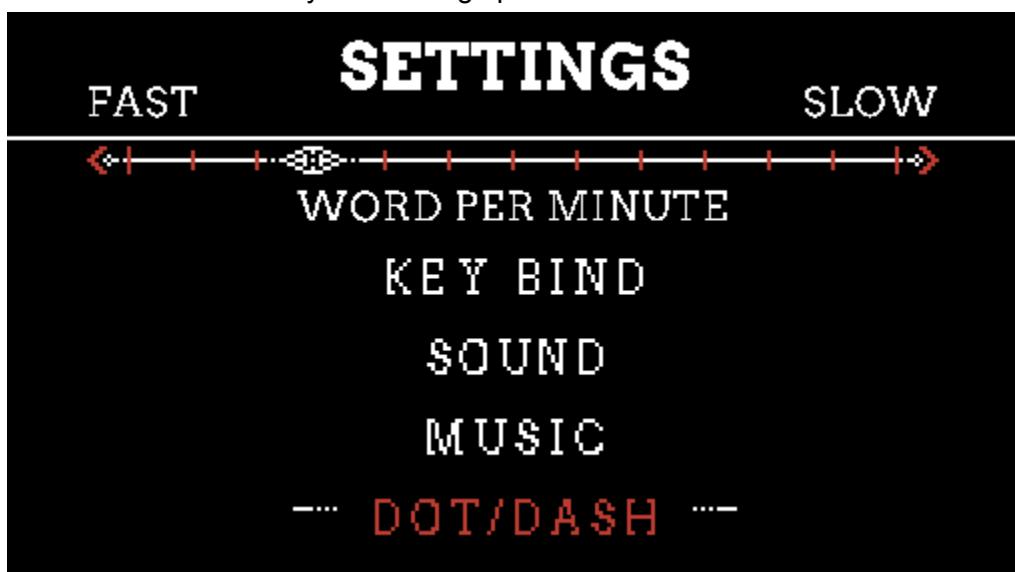
It should turn white



Press any key to bind to the launch command, i.e. “Space”, “Enter”, “F”

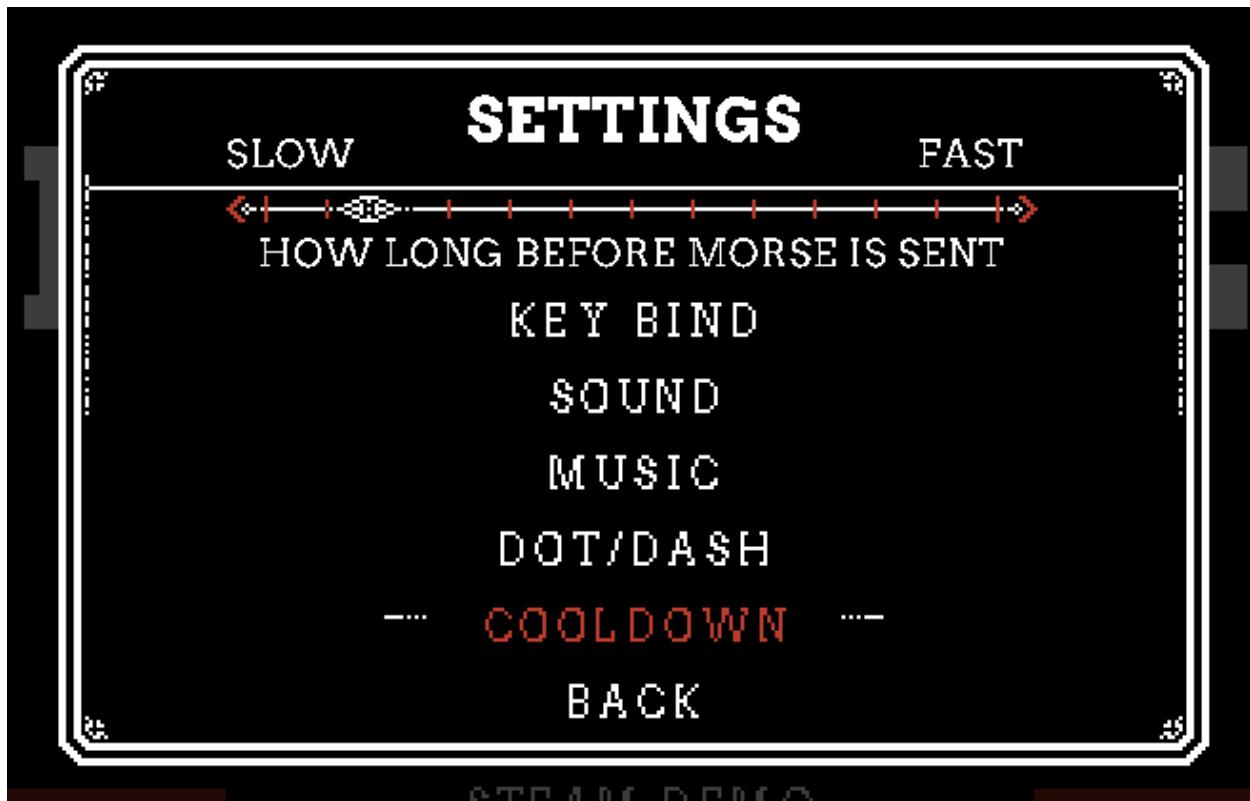
Dot/Dash Speed

In that same menu you can set the speed/length of the dit and dash detection the game will use this should correlate to your sending speed



## Cool Down

This setting is for how long after you enter a morse code sequence it is sent as a command. Generally the faster you send the faster you want this setting. It is similar to Farnsworth speed.



Click Back to Exit the Settings



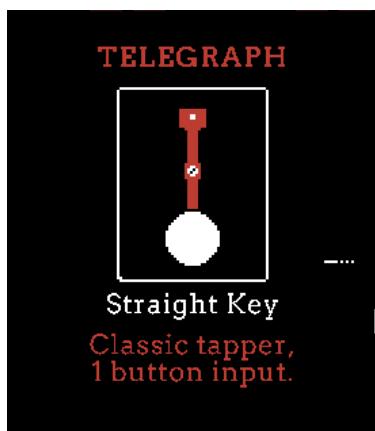
Start the Game



Telegraph Key Mode

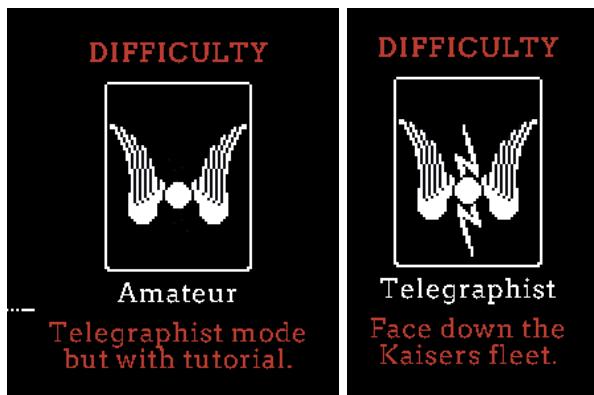
At the time of writing the only mode available is straight key.

**Note that this is independent of the current Vail Adapter setting. You can use a paddle with this demo!**



Difficulty

There are two difficulties Amateur (Tutorial Mode) and Telegraphist (No tutorial)



Start the Game



## Game Troubleshooting

If your Dashes are getting decoded as dits the Dot/Dash setting is too long.

If your Dits are getting decoded as Dashes the Dot/Dash setting is too short.

If your commands are getting sent prior to finishing a letter the Cooldown setting is to fast

If multiple letters or numbers combining together the cool down settings is too slow