**Heathkit Gotek Floppy Emulator Notes**

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Jeff at HxC for developing the firmware and software to modify the Gotek floppy emulator for Heathkit computer systems

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# Hardware

* Gotek Floppy emulator [($27.99 from Amazon](https://smile.amazon.com/gp/product/B0762NCHC6/ref%3Doh_aui_detailpage_o05_s01?ie=UTF8&psc=1))
* USB to TTL Serial Cable [($6.99 from Amazon](https://smile.amazon.com/gp/product/B00QT7LQ88/ref%3Doh_aui_detailpage_o04_s00?ie=UTF8&psc=1))
* USB flash drive (32GB works, probably could use smaller)

## Software

Download the software from the following [webpage](http://torlus.com/floppy/forum/viewtopic.php?f=33&t=1683&p=11486#p16457)

* USB STM32 HxC Floppy Emulator firmware for Gotek update: HXCFEUSB\_HFE\_beta\_firmware.zip
* Last firmware release notes : USB\_HFE\_hxc\_floppy\_emulator\_firmware\_release\_notes.txt
* Online Bootloader programmer: STM32\_SerialBridge.zip
* You can purchase the firmware on this page : <http://hxc2001.com/store/>

## Gotek

Your drive may need to modified in order to program it. It needs a set of jumper pins added to connect the serial cable.



Solder a set of dual jumper pins in the area indicated.



Reassemble the unit and connect the serial cable as indicated in the **First time bootloader Flashing/Programming process** at the following [link](http://torlus.com/floppy/forum/viewtopic.php?f=33&t=1683&p=11486#p16457). Note the jumper at J3. You may need to use a wire to briefly ground the Reset pin if the software doesn’t like up initially.

Serial cable pinout

Red cable: +5V

Black cable: GND

Green cable: TXD

White cable: RXD



Follow the directions to flash the unit with the new bootloader

## Create Disk Image

Open the HXC Floppy Emulator software

Click **Load** and navigate to the directory with .H8D file you wish to load.

Click **Export** and select "HFE version 3" as the export file type.

Copy the exported file to the USB flash drive. You will also need the latest Beta firmware from the HXC site the first time you load the Gotek.