

TFT and Marlin Controller board F/W update procedures

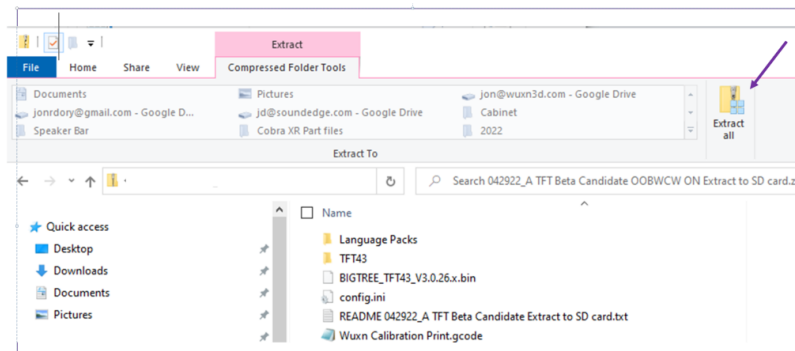
TFT firmware requires four files and two folders:

- 📁 Language Packs
- 📁 TFT43
- 📄 BIGTREE_TFT43_V3.0.26.x.bin
- 📄 config.ini
- 📄 README 042922_A TFT Beta Candidate Extract to SD card.txt
- 📄 Wuxn Calibration Print.gcode

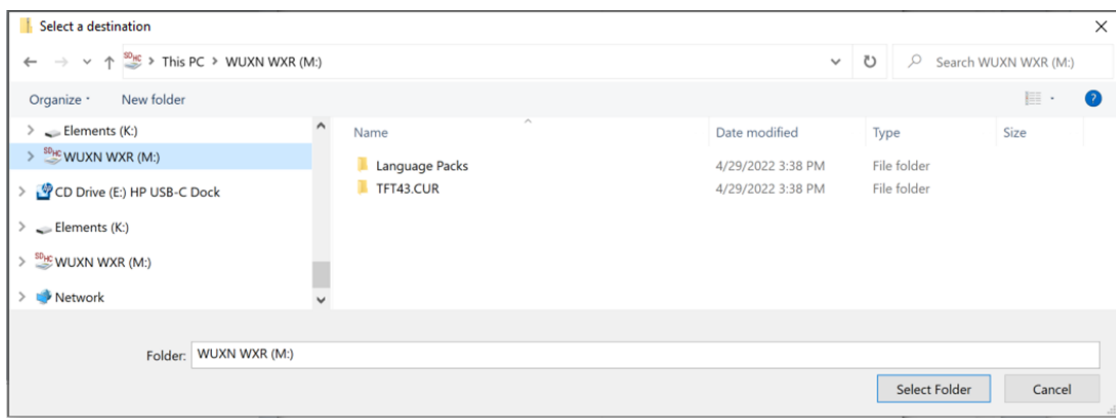
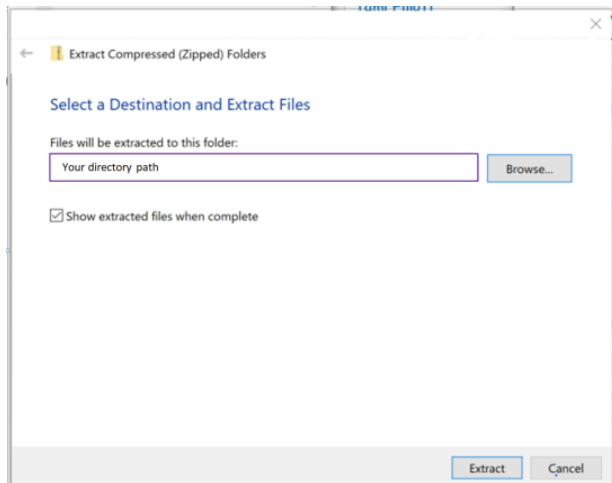
The firmware update process is accomplished using a clean SD card with the proper files. At boot time, the WXR checks the SD card slot for particular files and configurations, if those files are present, then it is assumed that the firmware update process is required. After a successful update the firmware files are renamed with a .CUR extension. Follow the steps shown below to complete the update process.

The firmware files are “packaged” in a .zip file that can be downloaded on Wuxn3D.com

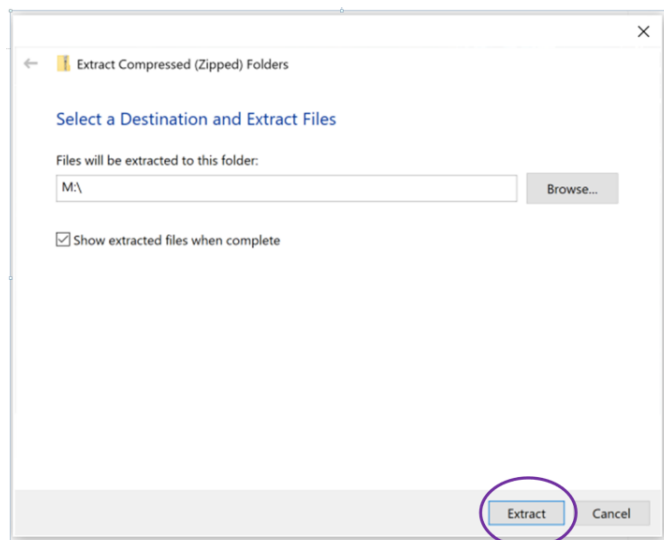
- Download the .zip file and save to a convenient location
- Insert a blank, formatted, 8GB, SD card into your PC SDcard reader (*Windows- FAT32, MAC- MS-DOS(FAT)*)
- Navigate to the “saved” .zip file, double click on it and click on “extract all”



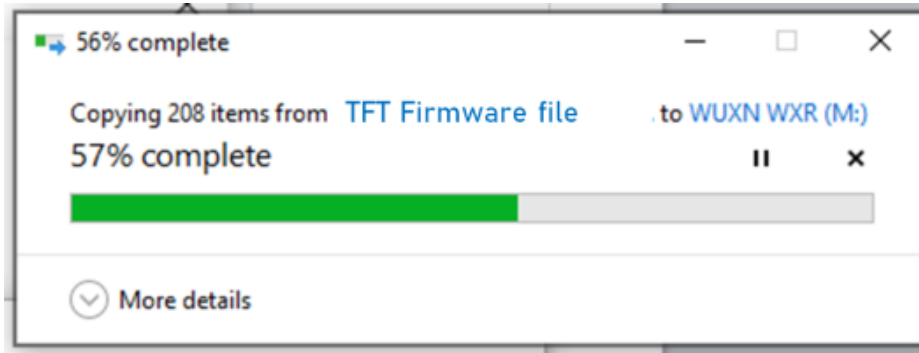
- Click on Browse to select the location to unzip files to



- Select the SD Card (shown here as WUXN WXR M:), then click on “Select Folder”



- Click Extract



- After this completes, right click on the SD Card and select Eject
- Remove and carry the SD Card to the WXR
- Power off the WXR and wait 10 seconds

- Insert the SD Card into the SD slot

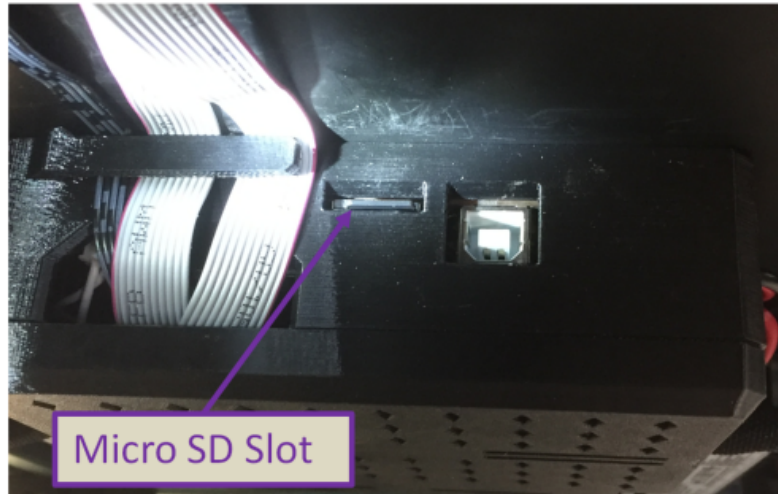


- Power on the WXR, the files on the SD Card will be used to update the TFT firmware
- After the update process completes, WXR will boot and display the Ready menu
(note:MAC users, best practice is to delete the firmware files and reformat post update)

The WXR is ready to print

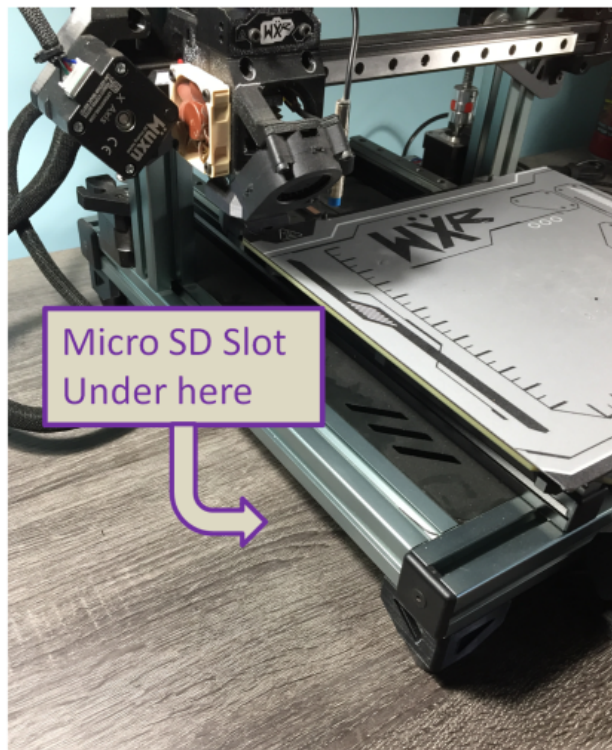
Marlin Firmware update process

Marlin firmware requires one file, firmware.bin. If a micro SDCard is inserted in the controller board micro SD slot during a power on cycle, and this firmware.bin file is present on the SDCard, then the firmware.bin file will be loaded into memory and used to boot the controller. After a successful update, the firmware.bin file is renamed to firmware.CUR.



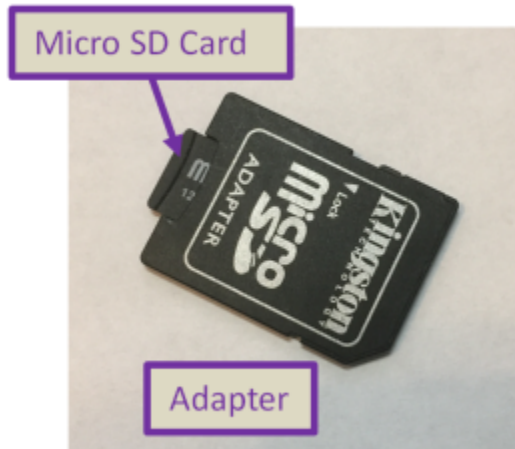
The WXR printer needs to be tipped up to expose the controller and the micro SDCard slot.

Tip: remove filament reel prior to tipping the WXR. Additionally, the y-carriage will drift back as the printer is tipped. Plan accordingly



Controller board FW update (Marlin)

- Download the firmware.bin file [here](#) and save it to a convenient location
- Use a small flat blade screwdriver or your fingernail to remove the spring loaded micro SDCard. Push in to release, then allow the card to spring forward. Careful, the spring can launch the card forward.
- Install the micro card into an adapter, then insert the adapter into the PC SDCard reader.



- Copy the firmware.bin file onto the micro SDCard (*recommend using Win10 OS for this process, some issues may occur using MAC OS*)
- Remove the micro SDCard from the adapter (right click and select eject) and carry back to the WXR
- Expose the controller (tip the printer back again) and carefully insert the micro card into the slot
- Lower the printer, secure it, and power on the printer

At this stage the firmware.bin file will be loaded into the controller memory and used to boot.
The WXR is now ready to print