

STM32F407 Programmer for the STMPRO ECU.
firmware.bin file is Firmware 202207.

Only available for windows OS currently.
Zadig-2.5.exe needs to be installed first

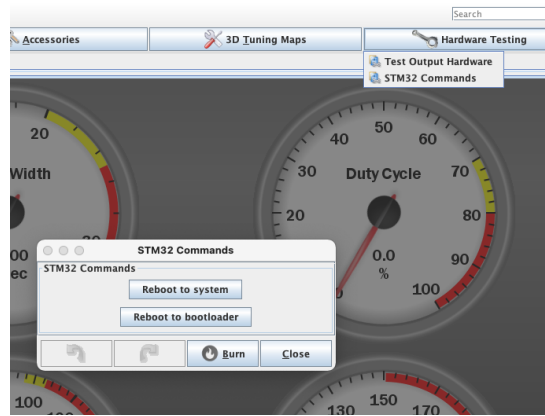
Plug the ecu into USB

In Tuner Studio end tab "Hardware testing"

STM32 Commands

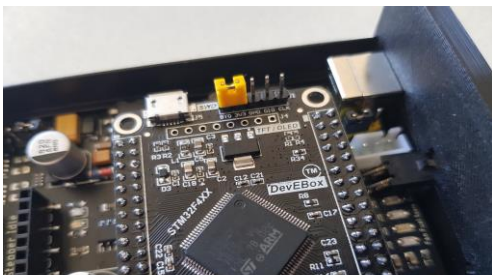
You will see a button

"Reboot to bootloader"



Normally with the ecu connected Tuner studio should go grey and stay that way,
if it reconnects it didn't work and you have to try again.

If this doesn't work for you, you can use the manual mode, Using a jumper as shown in the "Manual DFU mode" image.



windows should say something about a stm32 Bootloader.

when this happens you need to run Zadig.

View the image in the download to see the settings
needed.

Run Zadig

Go to options on the top and select list all devices.

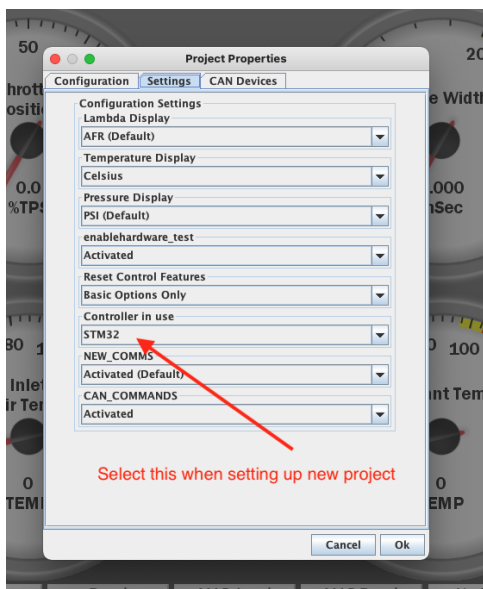
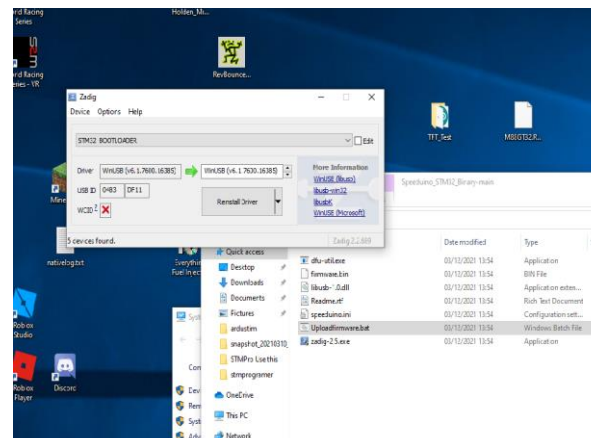
then from the dropdown menu select STM32Bootloader.

If you see "Black_f407VE in CDC" its not in DFU mode.

there are to boxes with a arrow in between on the right
hand side box scroll through until you see

"Winusb(v6.x.xxxx)"

click reinstall driver



It should now be ready to program.

run Uploadfirmware.bat and it should open up a dos screen
identify the CPU and start programming.

once programmed unplug ecu and reconnect to TS, Start a new TS
Project.

Load the new ini file, Speeduino.ini in this download directory.
When you get the Project Settings select "Controller in use" as
STM32 (Example is in New Project settings image).