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Reflash MS2-Extra code to ECU

MS2-Extra ONLY

Generally this is not something that should be needed to do unless you have had major issues, like resets which have caused the ECU to become corrupt, etc.

Note: Hopefully you would have a copy of the msq file that worked last on your laptop.

If not then youll need to email me to get a base file before doing this as

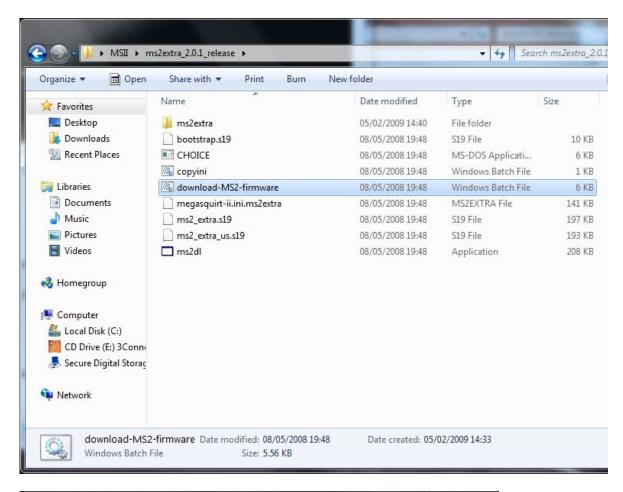
it **must** be loaded with a correctly configured file before it is plugged back into any ignition coils!!!!!!

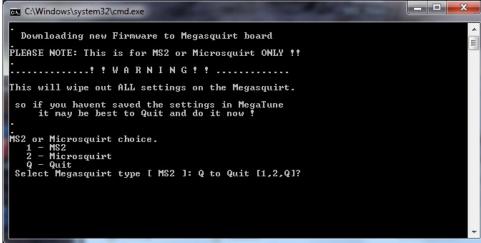
WARNING!!! IF THE ECU IS DIRECTLY DRIVING A COIL OR COIL PACKS THEN UNPLUG THEM NOW!!!!!!!!

Stage 1:

To re-flash the MS-Extra code to your MS ECU find the dir with the code you want to use in it, e.g 2.0.1. If youve bought an ECU from me and installed the MegaTune software it should put the relavent code for your ECU into c:/programfiles/megasquirt/ms2extra_firmware/

The installer would also put the downloader file into the START bar of windows, so you can either go to START - PROGRAM FILES - MEGASQUIRT - Download-firmware or open the dir and double click on the "download-firmware.bat" file.





Unplug all ignition coils that are directly fired by the ECU

Turn the power on to the MS ECU

Select 1 for MS1

Select your Comm port (e.g. 1)

Select 1 for No Debugging

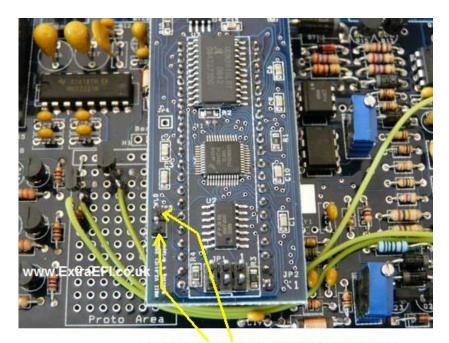
Then press "N" when it asks if you are upgrading from standard megasquirt2 code.

Once all the pages have loaded it will say press any key to continue..... You have now finished re programming the ECU goto Stage 2 below.

If you get an error message come up on the screen then you may have selected the wrong port or there maybe another obvious problem.

If it all checks out OK, then it could be that the ECU needs a full bootload.

This isnt hard to do, all it means is you'll need to remove the lid off the case and find the 2 bootloader pins on the daughter board (NOT THE MAIN BOARD):



Link these 2 pins with the small black link, or a piece of wire.

- i) Turn the power OFF to the ECU.
- ii) Link the bootloader pins together with the plug thats on the pins.. iii) Keeping them linked together turn on the power to the ECU. Now run the dowload-firmware program again (as above) but this time press Y when it asks if you are upgrading from standard megasquirt2 code. The downloader will then ask you to turn off the ECU and remove the bootloader. Then you must turn the power back on to the ECU.

Once all the pages have loaded it will say press any key to continue..... You have now finished re programming the ECU :o)

IF THE ECU IS DIRECTLY DRIVING A COIL OR COIL PACKS **DO NOT** PLUG THEM BACK IN YET!!!!!!!

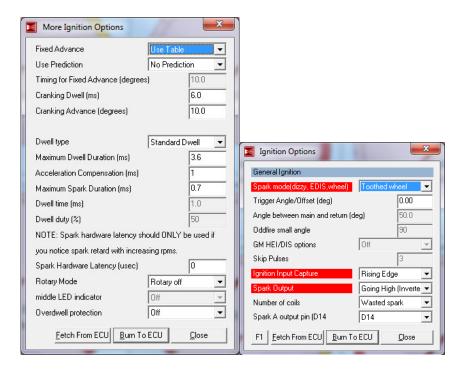
STAGE 2:

Re-load configuration file

Now run MegaTune. If you have a saved msq file then open it in now and **burn** it, if not then you must get a base config file from me then **burn** that in now.

Double check your number of cylinders is correct in Engine Constants and your spark setup is also correct in Tacho input/Ignition Settings,

e.g. a typical toothed wheel running wasted spark (zetec) should be:



Now it is safe to plug the spark coils back into the MS ECU!!!!!!

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