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This is currently EXCLUSIVE to ExtraEFI

This is an extra board that plugs into the main board, under the MS2 daughter board. This makes the MS ECU 3 layers high:

- 1: Main board (V3.0 or V3.57)
- 2: MS2X Expansion Board
- 3: MS2 Daughter Board

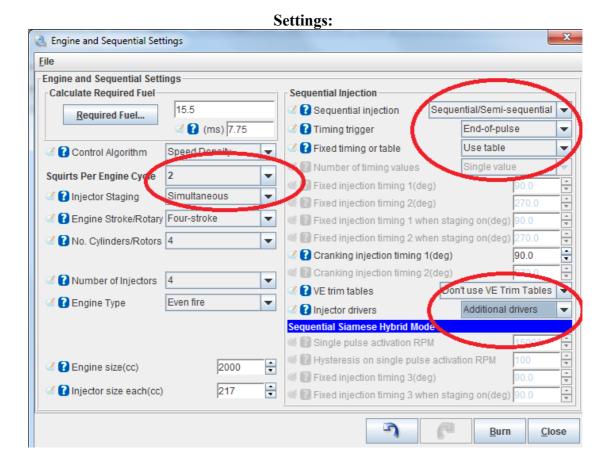


This option is only available for the **MS2-Extra ECU** and it gives you the following inputs and outputs:

- **2 x Injector Bank Drivers** These are capable of driving high impedance injectors (NOT lo-impedance) This gives the MS2 ECU 4 banks of injectors, so a 4cy can run sequential fuel, or a V8 semi-seq.
- **1 x EGT input** Allows an Exhaust Temp Sensor to be connected to the ECU for monitoring/logging purposes.
- **2 x Logic Level Inputs** -They can be used to control options like Launch, N2O, switch maps, etc. (12V in to switch feature)
- 1 x Medium Current Output For controlling relays (e.g. cooling fan, NOS, etc) tacho, warning light, etc.
- **1 x High Current Output** This can control relays, as well as directly connect to an Idle valves, Boost valves, up to 3A.
- 1 x Spare ADC inputs 0-5V inputs for second O2, etc.
- 1 x VR sensor input This gives the ECU a total of 2 trigger inputs, e.g. one for the cam and one for the crank.
- 1 x Hall sensor input This gives the ECU a total of 2 trigger inputs, e.g. one for the cam and one for the crank.
- **4 x Spark Drivers** When used with the **Spark Driver Board**, this can fire 4 coils directly.

Please Note:

There are limits to the amount of I/O that the MS2 ECU can have connected. So not all the above can be used together in some cases.

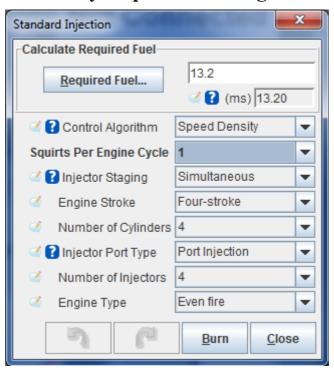


It is very important that you ensure your settings have "Additional Drivers" selected here when there are 3 or 4 injector drivers (MS2X card)

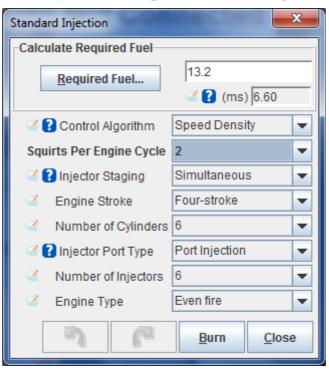
To run **Batch** fuel set **Sequential Injection** to "**Untimed**" this will fire Bank1 and Bank2 Injectors in a batch fuel system, 2 banks of fuel outputs. (2 on the main board)

To run **Semi or Sequential Fuel** set "**Sequential Injection to Sequential** / **Semi-Sequential**" This will fire 3 (6cy) or 4 (4 or 8cy) injector banks. (2 on main board and the others on the MS2X card)

4 cy Sequential setting:



6cy Semi-Sequential Setting:



8cy Semi-Sequential Setting:

