Settings before Tuning

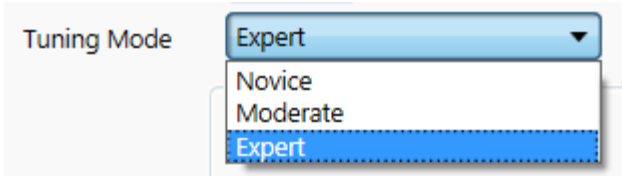
When you get to this point your engine should start and idle easily and the basic settings in the startup procedure should be set. Start with a warm engine at working temperature. Remembering you have a start-up map loaded from a running vehicle.

All the sensors such as TPS, MAP sensor, water temperature etc. should be calibrated.

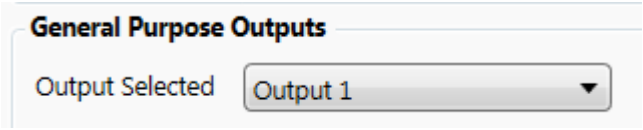
If you are on dyno tuning, then certain graphs must be set to zero.

Disable or set the following features so that it does not influence your basic tuning.

General Settings



Make sure you are in the right tune mode.



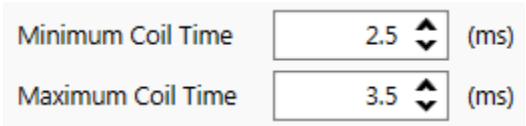
Your outputs should be set to ensure that cooling fans etc. operate correctly.

Engine Settings

Set this value 500 RPM higher than your max tuning RPM.

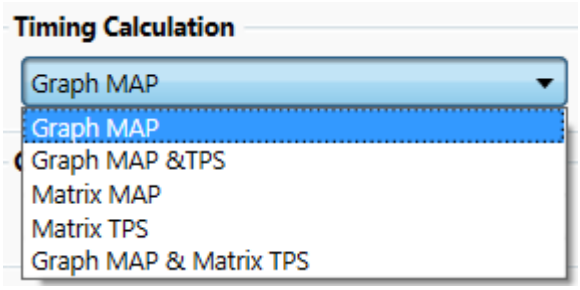
Timing Settings

Set the Maximum timing and trailing degrees to a safe level. It will protect against too much timing on the graphs while tuning.



Set these values to a min. if you are not sure use 2 and 2.5 rather. Later when the engine miss you can increase them to see if it improves the miss. Too higher values may heat the Coil drivers to a critical level.

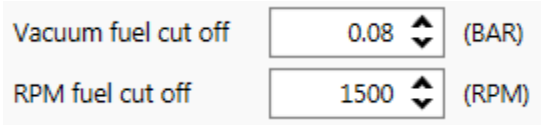
If you installed an altitude sensor these values must be set before tuning.



Select the right tuning method. Usually the same as fuel.

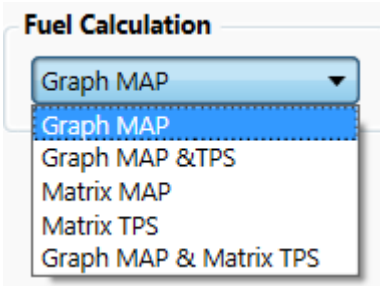
Fuel Settings

This setting will prevent over fueling while tuning the graphs.



These settings will prevent the engine from cutting unexpectedly. For a rotary use 2000 RPM.

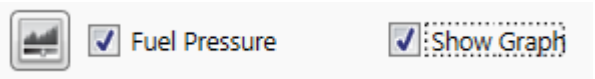
The accelerator pump sometimes influences your fueling. Especially the MAP sensor compensation if the vacuum is erratic. Always start with minimum values. If you see erratic injecting time put it on TPS only.



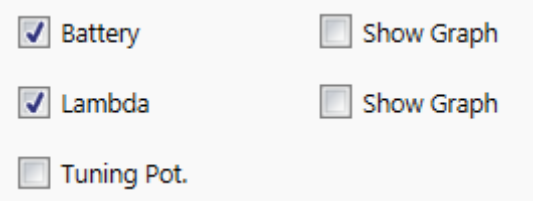
Select the right tuning method. Usually the same as timing.

Sensor Settings

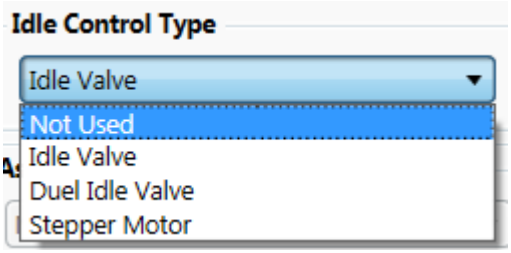
If you plan to use the Lambda sensor and one is installed, then these settings must be on and the sensor must show your altitude pressure.



If you are doing fuel pressure control you should have set this up already. See the fuel pressure control adjustment section. If not, put the Show Graph or the sensor off if it is not connected.



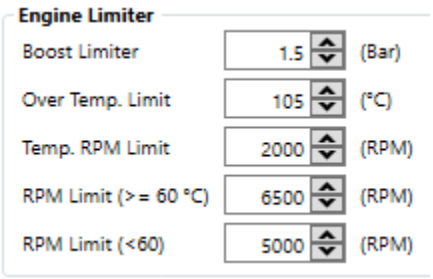
Disable the battery, Lambda and POT till the tuning is done. The sensor will indicate though. If the lambda is not connected, then put the sensor off as well.



If you can tune without idle control on it will be good. Then select Not Used. You will need to ensure enough idle air to maintain engine RPM. Or you could do this tuning beforehand. But if you adjust Fuel Offset and timing, you may need to adjust the idle control again. See the idle control adjustment section.

Turbo Settings

Set a maximum value 0.1 bar above your planned maximum boost to protect the engine during tuning.



Set you engine limiters to safe values.