



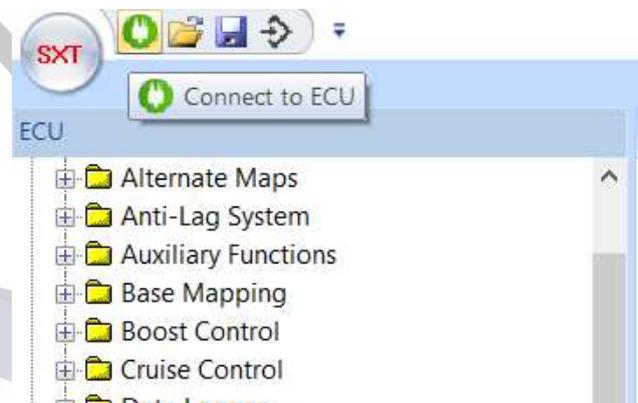
## Setting Idle Speed (Single and Multi-throttle vehicles)

Ensure that before attempting to set the idle speed, you have calibrated your TPS. This can be done using the 'TPS Calibration' document on our 'Downloads' page.

**PLEASE NOTE:** If you have a vehicle with multiple throttle bodies, you **MUST** ensure the throttle bodies are balanced. For information on doing this, please refer to our 'Throttle Body Balancing' document.

The engine must be warmed up prior to setting your idle speed.

Using the green '**Connect to ECU**' button whilst the ignition is on, connect your PC to the ECU. Once a connection has been made, the green icon will have a red cross through it.



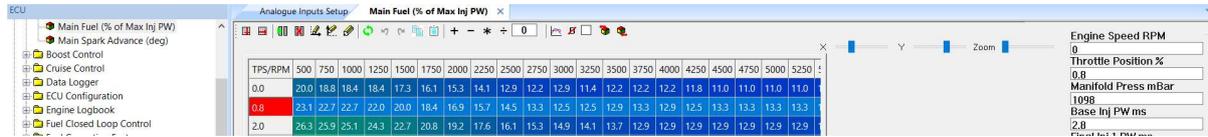
Before adjustments can be made, you will need to turn off 'Idle Control'. This can be done by clicking '**Engine Calibration**' then '**Idle Speed Control**' and going into '**Idle Speed Control Variables**'. You will then need to change the '**Idle control TPS/PPS enable**' box to 0.0. This will need to be changed back to 0.8 once the idle speed has been set.



Using the manual throttle stop adjustment screw on your throttle body(s), lower the idle speed to a point at which you are happy with. If you need to increase the idle speed of your engine, you can also do this on the throttle stop screw by winding it in the opposite direction. Generally, you should aim for an idle of around 950-1050rpm when warm.

Once you are happy with your engine idle speed, make note of the '**Throttle Position (%)**'. This is likely to be around 0.4-1.0% depending on the application. You will need to adjust the fuelling when you reset the TPS zero point. So to make things easy, go to '**Engine Calibration**', then '**Base Mapping**' and click on the '**Main Fuel (% of Max Inj PW)**' table. To

save time trying to adjust the fuelling after re-setting zero, copy (CTRL + C) the highlight fuel row for the current **'Throttle Position (%)'** like shown below.



TPS/RPM	500	750	1000	1250	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250
0.0	20.0	18.8	18.4	18.4	17.3	16.1	15.3	14.1	12.9	12.2	12.9	11.4	12.2	12.2	11.8	11.0	11.0	11.0	11.0	11.0
0.8	23.1	22.7	22.7	22.0	20.0	18.4	16.9	15.7	14.5	13.3	12.5	12.9	13.3	12.9	12.5	13.3	13.3	13.3	13.3	13.3
2.0	26.3	25.9	25.1	24.3	22.7	20.8	19.2	17.6	16.1	15.3	14.9	14.1	13.7	12.9	12.9	12.9	12.9	12.9	12.9	12.9

Now follow the TPS calibration procedure again to reset the 0.0% throttle.

Once done, go back to the **'Main Fuel (% of Max Inj PW)'** table and highlight the 0.0 row. You will need to paste in the fuel values for wherever the old zero position was (0.4, 0.8 etc) into the 0.0 row.

For cars with multiple throttle bodies, the throttles will now need re-balancing. (please refer to our **'Throttle Body Balancing'** document.

Please ensure you have tried this and the other guides before contacting us as these are the first things we will get you to check.

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