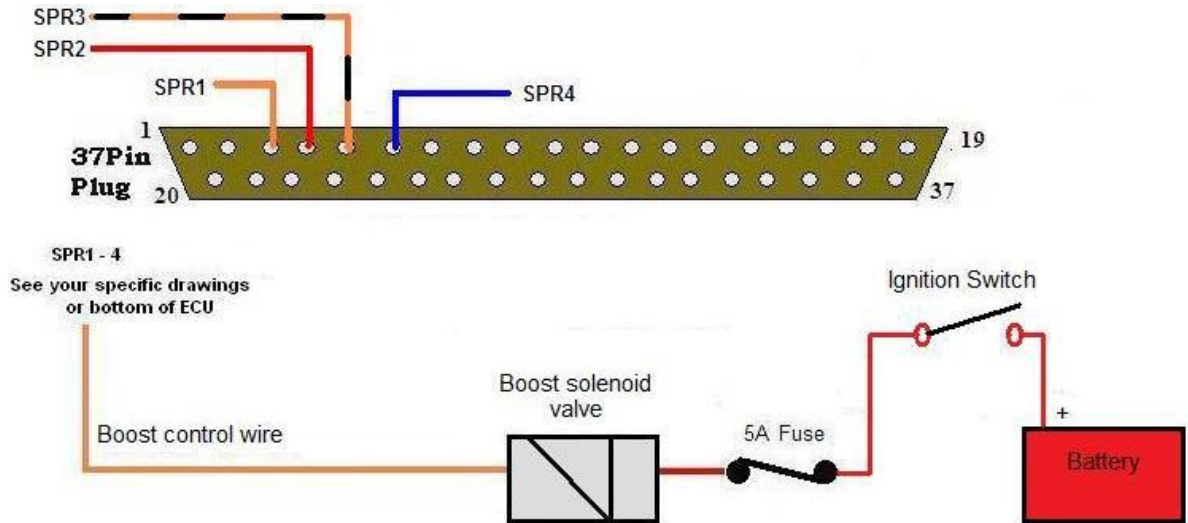




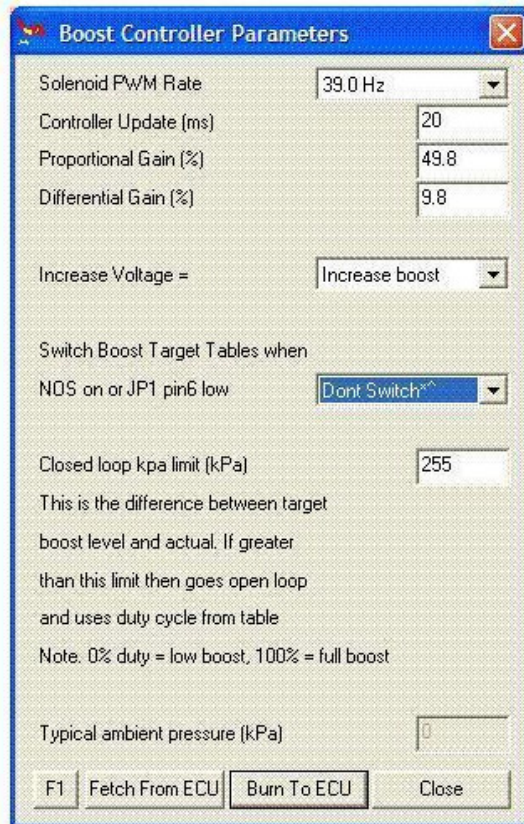
Boost Control



This system is used to control the boost pressure from a turbo via a fast acting valve on the waste gate, **but it is still EXPERIMENTAL and must be used with caution!**

To use the Boost Controller please set **X4 (JS2) function** in the **Codebase and Outputs function** settings to **Boost**. This cannot be used with **Output 1** as it uses the same pin X4. Please note: A TPS is needed for this function to work.





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The **Solenoid PWM rate** is the pulse width that is used to control the solenoid, this will need to be experimented with to get your system to react best to the controller.

The **Controller Update** is how often the ECU will look at the boost pressure and adjust the setpoint in mSecs.

The **Proportional Gain** is how hard it seeks the target.

Differential Gain means how it will react to sudden changes, it's roughly a predictive term, but for best results it probably has to be kept to a small value. Tune proportional first, leave differential for later

The **Increase Voltage** is for setting the valve so it operates the right way, generally as PWM increases the Boost increases.

Switch Boost Target Tables can be used when the Table Switching circuit is installed (see [HERE](#)) this simply switches between 2 target KPa tables.

Closed Loop KPa limit is the amount of boost difference allowed between the 6x6 **Target KPa table** and the actual boost value (MAP). E.G. if this is set to 50KPa then as long as the target was within 50KPa of the actual MAP KPa the ECU will continue to run closed loop (i.e. adjusting the PWM to try to get to the target value). Once the difference goes over 50KPa then the 6x6 **Target KPa table** is ignored and the 6x6 **Boost Duty Cycle Table** is used to calculate the PWM rate.