

Tips For Tuning Your AFR & HHO System.

Through the years, and lots and lots of experimentation I have found some little secrets for maximizing your mileage gains with the use of Browns Gas (HHO).

In an ideal world, we could vary the output of HHO gas to work in correlation with the vehicles accelerator pedal. However this is not yet possible with electronics. The reaction time to an increase or decrease of applied current to your Generator (cell) is way too slow for this to be a practical reality at this point in time. But we are working on it.

With all of today's systems, the best we can currently do is apply a fixed amount of HHO, controlled by either our Black Box Controller, or a Good quality CCPWM. (not a PWM).

With a fixed amount of gas being applied, depending on the size of your engine, it will give you your maximum mileage gains within a certain RPM range.

Too many people make the mistake of doing all of their tuning and set up at idle speed. This will give you maximum fuel savings at idle. If you want to maximize your mileage gains at the the speeds and RPM range that you will be doing most of your driving, you MUST do your tuning at that RPM range. As you are doing your daily driving, take note of your engine's RPM. Find the engine RPM (within 700 rpm) range that your vehicle is running the majority of the time. This is the range that you will use when setting your Black Box Controller, and your Tuning 101 AFR Control center.

You will either need help in the form of someone sitting in your vehicle and maintaining pressure on the accelerator to maintain a given RPM, or you will need to find some manner of adjusting your throttle body to maintain this RPM. If you have found you are for example most often operating in the 1800 to 2500 RPM range you would want to hold your RPM's at 2150 (your Target setting) while doing your tuning. Maximum efficiency is attained from 350 RPM above to 350 RPM below your target RPM setting.

Using this method of tuning will maximize your gains for your particular driving habits and surroundings. Good luck with your project, and have a little fun along the way.

Gavan Knox
glknox@optusnet.com.au
0403177183

