



SmartTuner

SMT 6

Windows Operations Manual

Version: 7.3



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1. INTRODUCTION

This manual will assist you with operating the Windows Tuning Software for the Perfect Power SMT6 unit. All the information and steps in this manual are based on the latest Microsoft® Windows operating system (from Windows 98 and later).

Please use this manual in conjunction with the SMT6 Developer's Manual, as well as the SMT6 Installation Guide.

If you have any suggestions, questions or comments, please feel free to contact us with any feedback at info@perfectpower.com.

The pictures in this manual are used as a guideline only.

2. INSTALLATION

2.1 SOFTWARE VERSIONS

If you have already installed the SMT6 Windows software, it is advisable to un-install the version you have, in preparation to install the latest version. The software you are running may have been updated and you'll need to have the latest software running at all times.

**Check the "Software Downloads" section on our website,
<http://www.perfectpower.com/>, from time to time for updated versions of the SMT6
Windows Software.**

2.1.1 UN-INSTALLING PREVIOUSLY LOADED SOFTWARE

If you have Perfect Power's SMT6 software already loaded, it is advisable to un-install this software prior to installing a more recent version of the software.

To un-install the current tuning software, click on the "Start" button, then select "Settings" and then "Control Panel". Once in "Control Panel", select the icon "Add/Remove Programs" and click on the "Change/Remove" button under the relevant software name, e.g. "SMT6".

Follow the prompts and make sure that the software has been removed. You will now be ready to install the latest SMT6 Windows Software.

3. INSTALLING SMT6 FOR WINDOWS

The SMT6 Tuning software can be found either on our website at www.perfectpower.com or on the Development CD. This CD is provided when you purchase an SMT6 Development kit.

If you are installing from the CD, an Auto Start should automatically appear once you load the CD into the PC's CD-Rom drive. Click on the menu item "Windows Software" and then select the installation method that you prefer. The software will be "unzipped" first. Then select the button to install the software and follow the prompts.

The software available on the Internet can be downloaded in two formats: a three part floppy disk or a single installation. The three file version which fits on three separate floppy (1.44MB) disks, is suitable for laptops that don't have an internet connection or a cd-rom drive. The single format, is a large file that you will need to save directly on your PC hard drive.

If using the three floppy disk option, place disk 1 into your floppy drive, open "Windows Explorer" or "My Network Places". Go to the floppy drive, by double clicking on the icon "3½ Floppy" and then double click on the file "SMT6D1". After the program has been executed and installed its files, place disk 2 into the drive and double click on "SMT6D2". Once this has been done, insert the third disk and double click on SMT6D3. Once disk 3 has finished copying its files, it will automatically start the installation procedure. Follow the prompts on the screen to install the software.

If using the single file option, open "Windows Explorer" or "My Network Places", go to the directory where you saved the file and double click on "SMT6_CD_SETUP". Follow the prompts on screen.

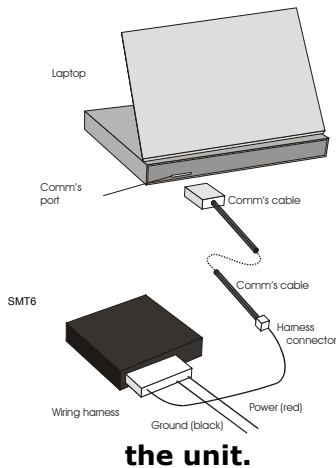
If you have downloaded the installation file(s) from the Internet, we suggest that you save them on your hard drive, so that you don't have to download them again. Should you need to re-install the software or install it on another machine, it will be readily available. However, please visit our "Downloads" page regularly and check for upgraded versions.

Note: The SMT6 Windows software was developed for the SMT6 unit only. It will not work with the PRS units, SMT5 unit or any other Perfect Power product that has been developed up to this point.

4. GETTING STARTED

You don't have to install a unit into a car to confirm if the software is working and installed correctly. You can run the software without the unit being connected.

When setting up the tuning software with a unit, follow the steps below:



- 1) Take an SMT6 unit and connect it to its wiring harness.
- 2) Supply 12V power to the red and black wires on the SMT. Red is positive, black is negative.
- 3) Connect the comms cable to the comms port of a laptop or desktop computer.
- 4) Connect the other end of the comms cable to the wiring harness of the SMT6, as depicted on the left.
- 5) Run the SMT6 tuning software by selecting the "SMTWin" icon under the "Start" menu.

- 6) **WARNING: Never unplug the SMT6 unit and its harness or comms cable without first switching off the power to the unit.**

The first screen (see an example to the right) that will be displayed gives you the option of selecting the "Communication Mode" being "Off Line" or "Online". Select "Online", as you will be connected to an SMT6 unit. Then click on button called "Continue>>". It will also automatically continue if you don't click on the button.

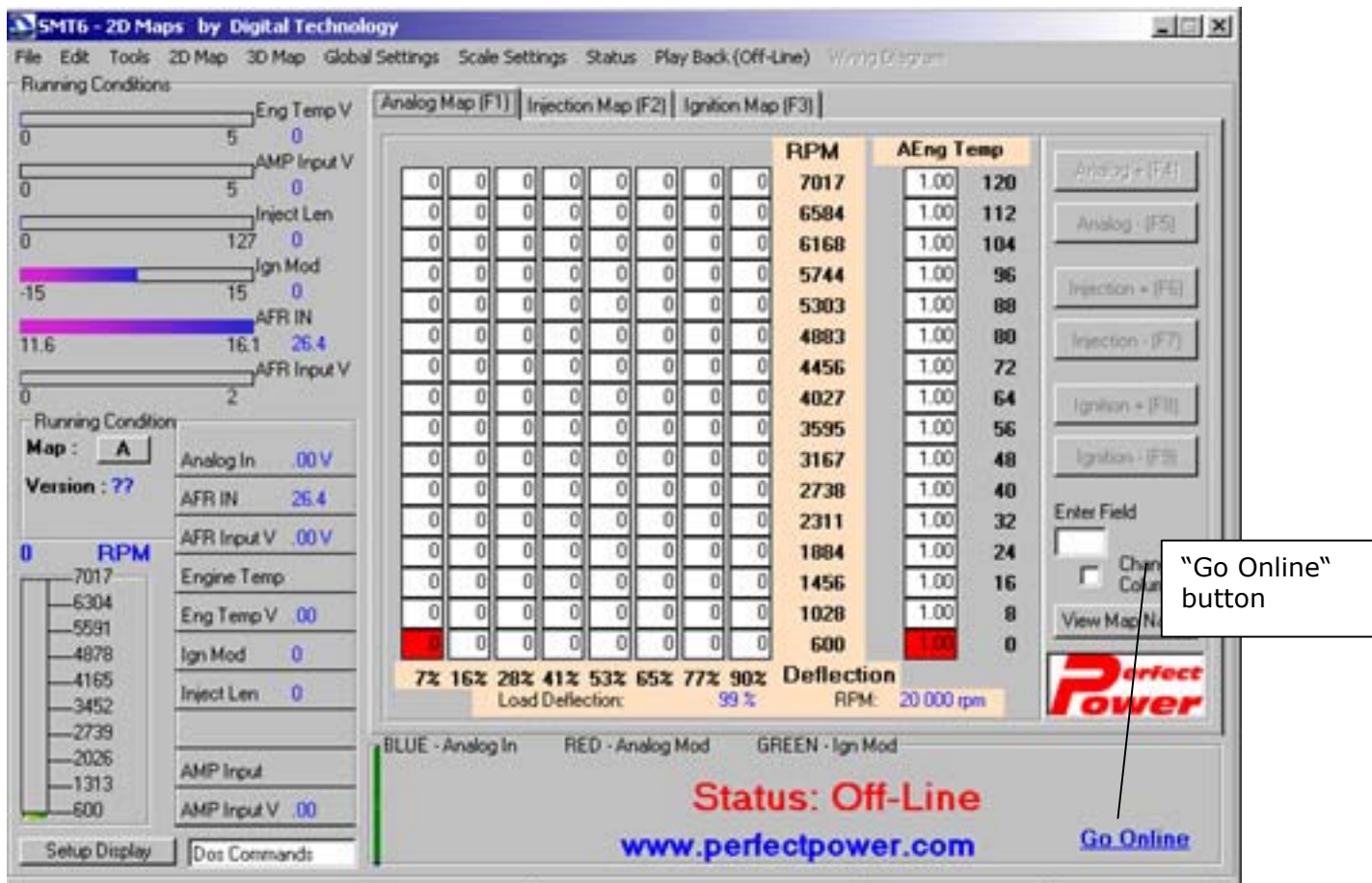
The software should automatically "communicate" with the unit. In the case of no communications, a "NO COMM'S" message will be displayed on the bottom of the main screen, after the first screen:



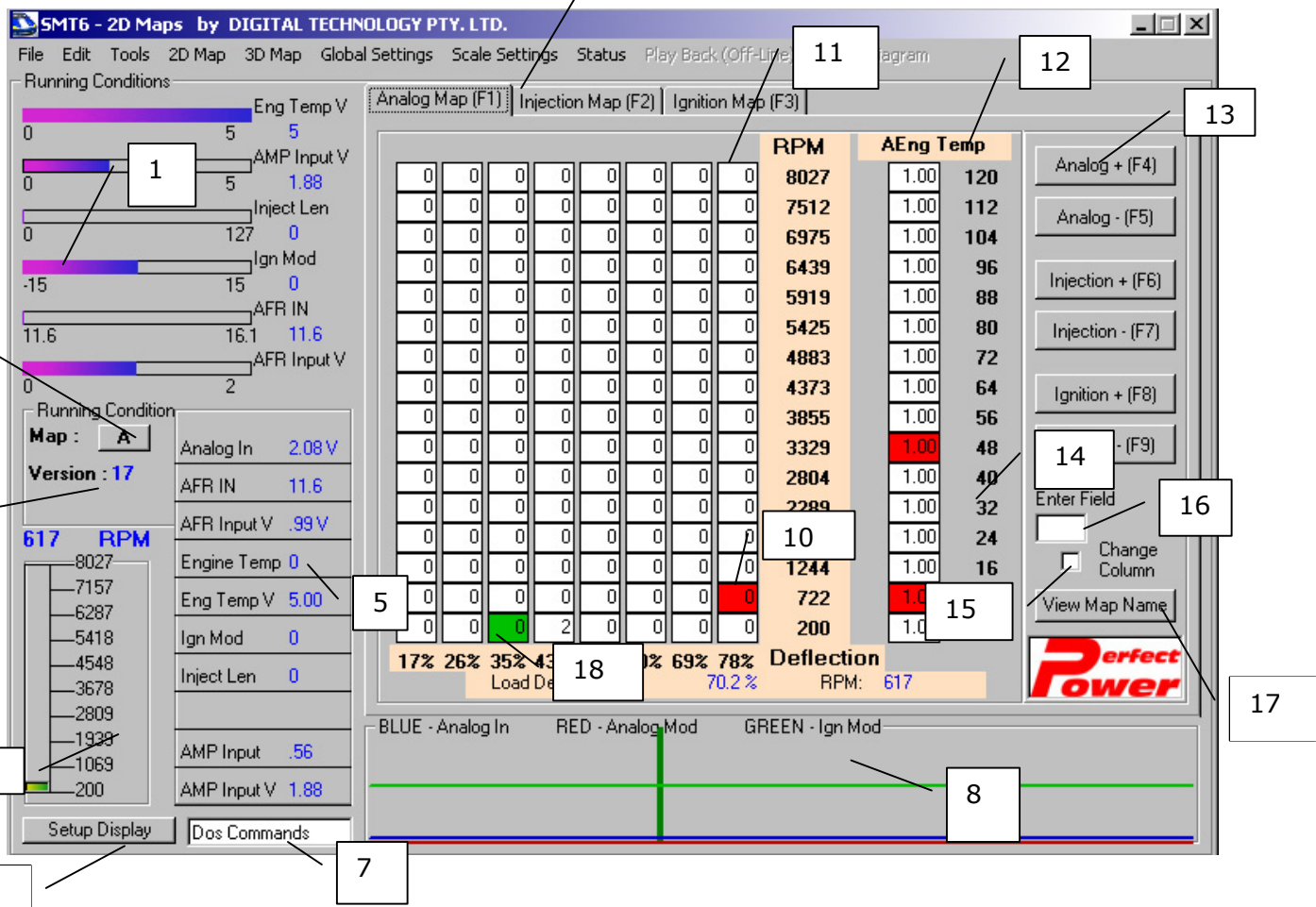
If no communication occurs, check the following:

- 1) Confirm that the power supply you are using is 12V and correctly connected.
- 2) Ensure the comms cable is the one that was supplied with the SMT6 and that it is connected securely to the PC/laptop and the wiring harness.
- 3) Check that the comms cable is not faulty and that the pins inside the connectors have not been bent, pushed in or broken off.
- 4) Make sure you are using the correct comms port, the software defaults to "com1". Comms port changes can be made under "Tools" on the Menu Bar in the tuning software.

When ready to use the software, make sure the software is set to "On Line". More information is available in the "Offline Mode" section of this manual. If a unit is "Off Line" it will be displayed on the bottom of the screen as shown below. Go online by clicking the "Go Online" hyperlink in blue shown below:



4.1 SMT6 TUNING SCREEN



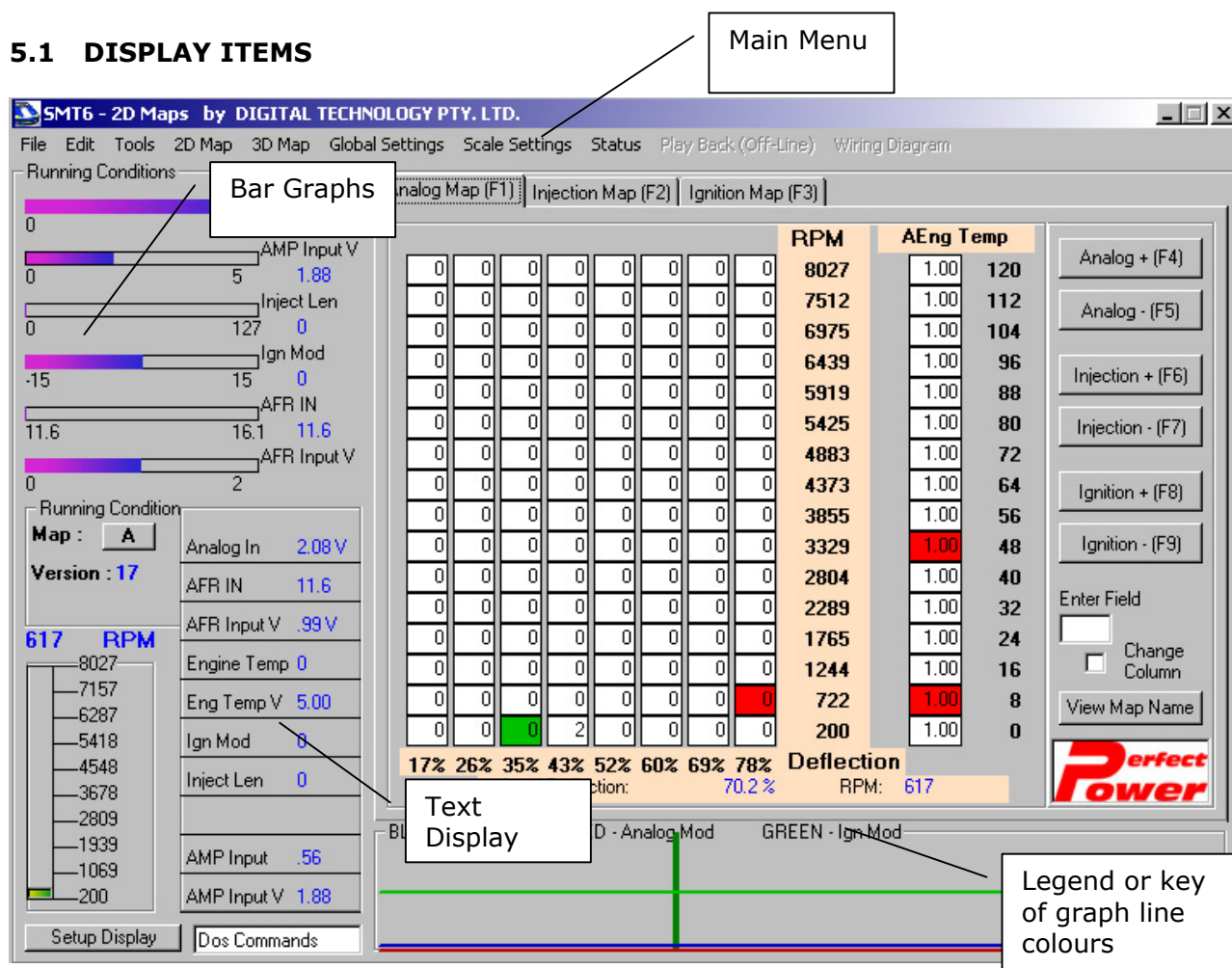
An example of the main tuning screen connected to a running unit is shown above. Take note that the unit shows no errors on the main screen and the map information has been loaded.

No.	Description
1	Bar graphs show the status of particular indicators via a moving bar graph and the text display on the right of the graph.
2	Map indicator. This map is currently on Map A.
3	Firmware version. The unit connected in this example, had version number "16". If the software is run with no unit connected to it, the firmware version defaults to "22".
4	RPM indicator graph. Fluctuates up and down according to the vehicle's RPM.
5	Text display. Gives a numerical value of an indicator.
6	Setup Display button. Used to setup the bar graphs, text display and line graphs.
7	Dos Commands field. SMT6 DOS Tuning Software commands can be used by inserting them in this field.
8	Line graph display. Line graphs of Analog inputs and outputs and RPM reading. Also displays error and status messages. "Go On-Line" hyperlink will be displayed in bottom, right hand corner if you are "Off-Line".
9	Tabs for separate map screens. This example shows the Analog map. By clicking on each tab, other maps will be shown (Injection and Ignition).
10	Real time cursor (red). The red cursor moves along the map. In this example, it is currently sitting above 60% throttle and 2732 RPM.
11	Main 8 x 16 map. The cursor on this map is affected by the throttle position value and RPM.
12	Engine temperature map. Cursor on this map moves up or down depending on the engine temperature sensor reading.
13	Touch tuning buttons. Clicking on these buttons will increment or decrement the map modification value on the selected main 8 x 16 map. A difference will be shown on the cell where the real time red cursor sits.

14	Cursor's current position showing a temperature reading above 48°C but below 56°C.
15	Change column check box. Checking this will copy the entered field above (no. 18) to an entire column on the 8x16 map.
16	Enter Field. A value entered here will be copied to a column on the map.
17	View Map Name button. Opens a menu where the map name and descriptions are stored.
18	Green cursor. Values are entered in the cell where this cursor sits.

5. SOFTWARE FEATURES

5.1 DISPLAY ITEMS



Sensor status is monitored on screen by the following displays:

1) Line Graphs

The line graph display feature on the bottom of the screen is able to display three different SMT indicators or sensor status. The legend or key, at the top of the graph indicates which color belongs to which sensor. This display is effective for determining trends and bug tracing problem signals.

2) Bar Graphs

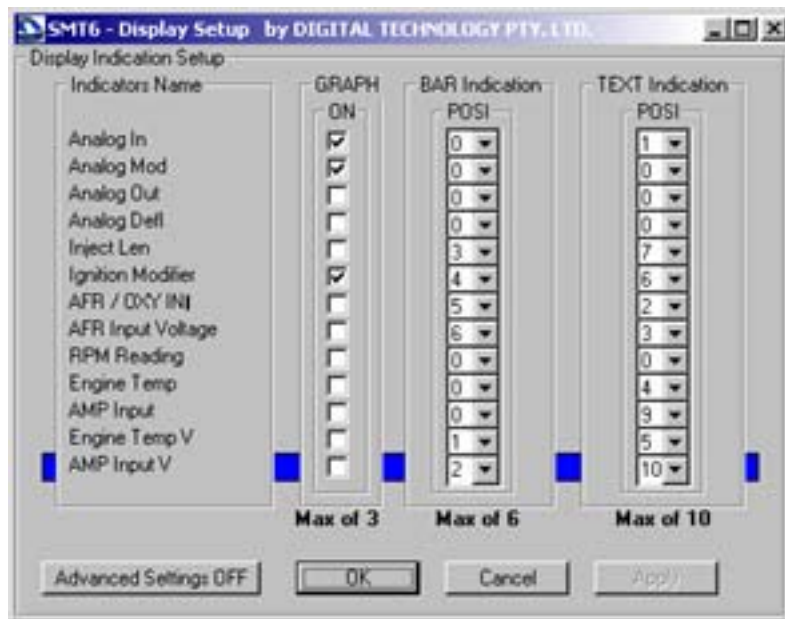
The bar graph display feature, shows fluctuating bar graphs representing the status of user defined SMT indicators. This is useful for readings that are used when you can only keep one eye on the tuning screen.

3) Text Display

The text display feature shows the actual value of an SMT indicator. The user can display up to ten different text displays and this is useful when an accurate reading is required.

5.1.1 DISPLAY SETUP

You can change the layout of the main tuning screen by clicking on the "Setup Display" button found on the bottom left hand side of the main tuning screen.



The Display Setup is divided into four columns, as described below:

Indicators Name	Description
Analog In	Displays the voltage of the analog input wire.
Analog Mod	Displays the map modification value made to the analog signal.
Analog Out	Output analog signal with its modification displayed in volts.
Analog Defl	Displays the analog deflection value as a percentage.
Inject Len	Shows the extra injector open time in milliseconds.
Ignition Modifier	Ignition map modification to ignition signal in degrees.
AFR/OXY INj	AFR reading, read as AFR.
AFR Input Voltage	AFR reading, read as voltage.
RPM Reading	Incoming RPM reading.
Engine Temp	Engine temperature reading displayed in calibrated value i.e. Kelvin or Celsius.
AMP Input	AMP sensor reading, shows the AMP reading in terms of the calibrated sensor scale i.e. bars or level of boost.
Engine Temp V	Voltage reading of the engine temperature sensor.
Amp Input V	Voltage reading of the AMP sensor input.

"GRAPH ON"

This feature selects an indicator for the line graph to be displayed. It consists of a check box, which you need to "check" or "tick" to select the indicators you want displayed. You can select a maximum of three graphs.

"BAR Indication POSI"

This feature enables the bar graphs to be displayed and their position. Click on the drop-down menu and select a number. The number indicates the position of the graph in the bar graph display section, on the main screen. Selecting zero will disable the graph, i.e. it will not appear on the bar graph section. For example: if you had selected "1" as the "POSI", this graph would appear at the top of the bar graph section. You can select to display a maximum of six graphs.

"TEXT Indication POSI"

Similar to the "BAR Indication POSI", this feature allows you to select the position of your text. For example: if you had selected "1" as the "POSI", the text would be at the top of the "Text" display. A value of zero disables the indicator and it will not appear. You can select to display a maximum of ten text displays.

5.1.1.1 ADVANCED SETTINGS IN DISPLAY SETUP

On the "Display Setup" dialog box, you have the option of "Advanced Settings". Click on the "Advanced Settings" button to switch on the section called "Advanced Settings". The "Advanced Settings" is made up of three additional columns which are displayed between the "Indicators Name" and "GRAPH ON" columns.



Display Name

This feature allows the User to configure his/her own name for the selected indicator.

Min and Max

The Min and Max values, allow you to change the scale of the maps. This is particularly useful for the line graph indicators.

5.2 RUNNING CONDITION

"RPM"

Displays the RPM of the engine as a bar graph.

"Map"

This shows which "Map" is active. You can switch maps here by clicking on the "A" or "B" button. See the section on "Map Changing" for more information.

"Version"

"Version" displays the hardware version number inside the processor of the SMT6 unit. The default (when your laptop is NOT connected to an SMT6 unit) will be "22". When you connect your laptop to a unit, the version number will change to the actual hardware version number.

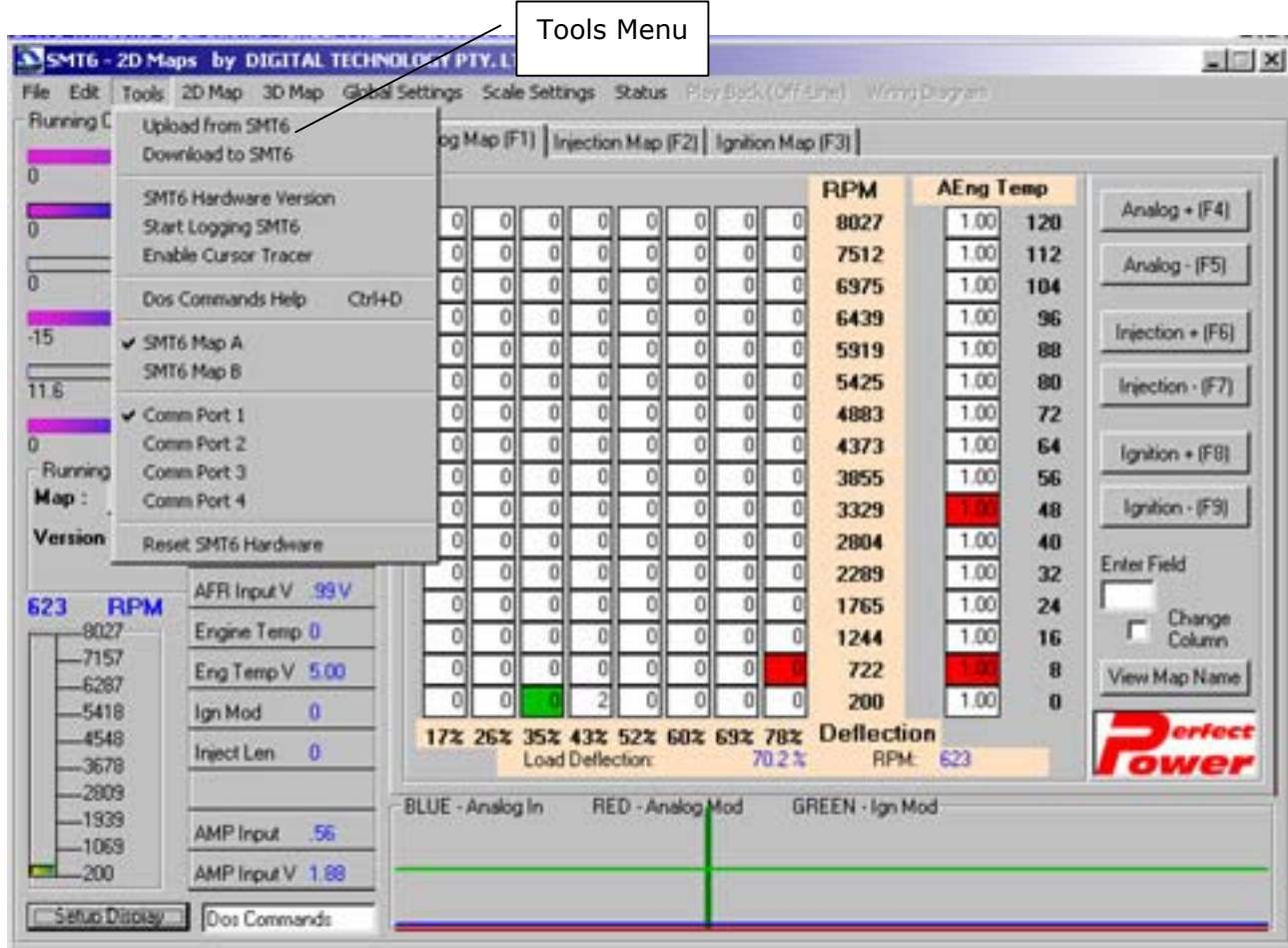
"No-Tune OFF"

Allows you to select the "No-Tune" option. If you have the "No-Tune" option pre-programmed into your software, you can activate it by changing it to "ON". If this occurs, no one else will be able to change your tuning or map setup.

"Dos Commands"

You can use the DOS commands from the DOS software, to manipulate the maps and set-up scales by typing them in the "DOS Commands" field. A summary of these commands can be found by selecting "DOS Commands Help" under "Tools" on the main screen menu bar.

6. TOOLS MENU



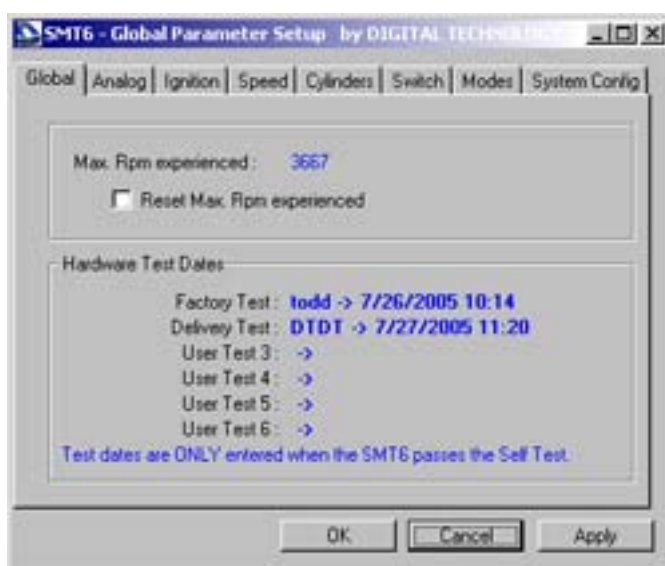
The "Tools" Menu item controls some of the basic operations of the tuning software as described below:

Tools Menu Item	Description
Upload from SMT6	Uploads files and settings from SMT6 to the screen.
Download to SMT6	Downloads settings from the screen to the SMT6 unit.
SMT6 Hardware Version	Displays the unit's firmware or hardware version. This version number is also displayed on the main screen under "Running Conditions". The default number is "22". When you are connected to an SMT6 unit and are "Online" this version number will be updated to the version on SMT6 unit.
Start Logging SMT6	Logs data to a file stored on the tuning PC. This file can be accessed using any text reader and is programmed to save on your hard drive, with the following path: C:\Program Files\SMT6WIN Directory\Folder as SMT6.XXX where XXX is a number from 000 to 999.
Enable Cursor Tracer	Enables the cursor tracer feature on all the maps. This will allow you to monitor where the cursor has moved on the maps.
DOS Commands Help	Lists a summary of all the DOS commands (hotkeys) that can be placed in the DOS commands field, found on the bottom left hand side of the tuning screen.
SMT6 MAP A and SMT6 MAP B	Select either option to switch between the two maps.
Comm Port 1 to 4	Select the required comms port from 1 to 4.
Reset SMT6 hardware	Select to re-set the SMT6 hardware.

7. GLOBAL SETTINGS MENU

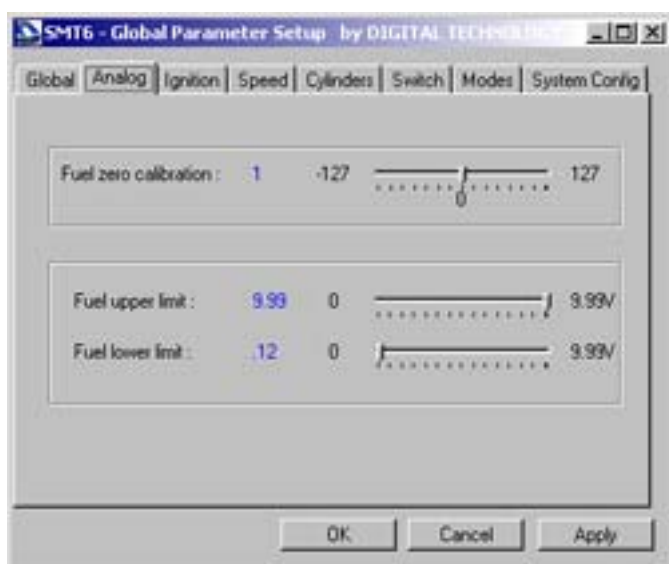
"Global Settings" are the main settings in the unit, which allow the user to set the SMT6 to work on a specific car or application. To view and change the global settings, click on "Global Settings" on the Menu Bar of the main screen. The "Global Parameter Setup" dialog box will then be displayed. It is made up of eight different sections indicated by the relevant tab, e.g. "Analog".

7.1 GLOBAL



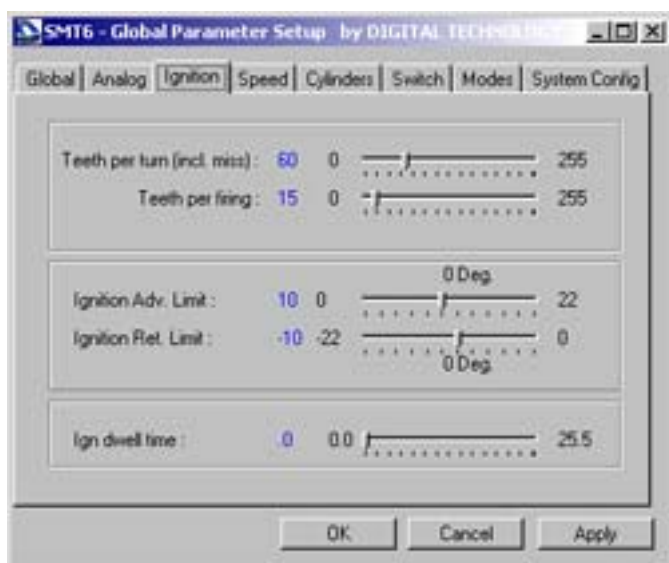
Item	Description
Max RPM experienced	Displays the maximum RPM recorded by the unit. To reset this value, click in the check box "Reset Max. RPM experienced" and then click on "Apply".
Hardware Test Dates	Shows the serial number of the factory, delivery and other tests performed by the self-test jig.

7.2 ANALOG



Item	Description
Fuel zero calibration	This is the global calibration for the analog input. Each value of "1" on this bar increases or decreases the analog output value by 39mV.
Fuel upper limit	Limits the analog output voltage so that it cannot go above this value.
Fuel lower limit	Limits the analog output value so that it cannot drop below this value.

7.3 IGNITION



Item	Description
Teeth per turn (incl. miss)	Number of teeth on wheel for one single turn of the crank.
Teeth per firing	Number of teeth on the crank between every firing.
Ignition Adv. Limit	Maximum amount of advance the SMT6 will allow to be made to the ECU signal.
Ignition Ret. limit	Maximum amount of retardation of the ECU signal that the SMT6 will allow.
Ign dwell time	Stand alone ignition application of the SMT6 will allow you to change the dwell of the output signal. Mainly used with distributor and 4 cylinder wasted spark applications. This must be set to zero for non-ignition applications.

7.4 SPEED



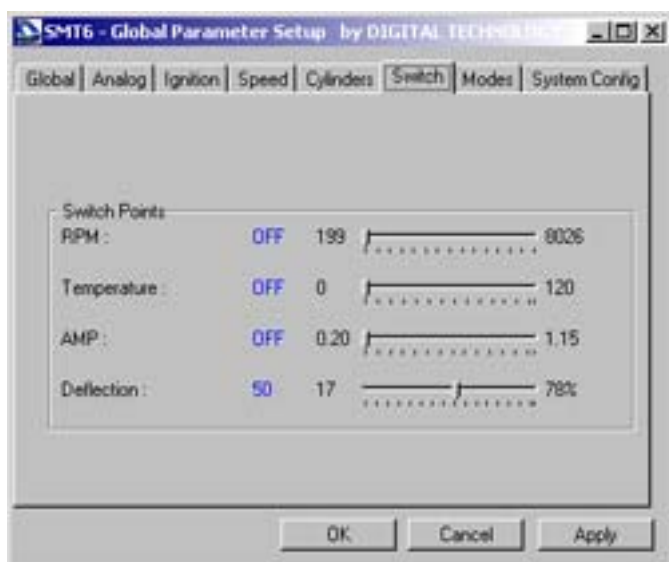
Item	Description
Road Speed Governor	
Adjust:	
Limit:	

7.5 CYLINDERS



Item	Description
Cylinders	Select the number of cylinders the engine has.

7.6 SWITCH



Item	Description
Switch Points	Switched output connected to the orange wire of the SMT6, can be switched according to the following set points: RPM, Temperature, AMP and Deflection.

7.7 MODES

The SMT6 can be set to run in 6 different modes. Each mode is used for a different crank signal.



Item	Description
1-Missing tooth operation	Missing tooth crank signal, balanced mode on the digital signal.
10-Single ignition advance	Standard crank signal, frequency based and retard and frequency fuel airflow meter signal.
11-Single ignition advance	Standard crank signal, road speed retard and road speed governor on digital line.
12-Two ignition advance and	Twin ignition signals.
13-Single ignition advance	Standard crank signal, PWM signal out.
20-Odd signal retard	Non-standard crank signals, can only retard.

7.8 SYSTEM CONFIG



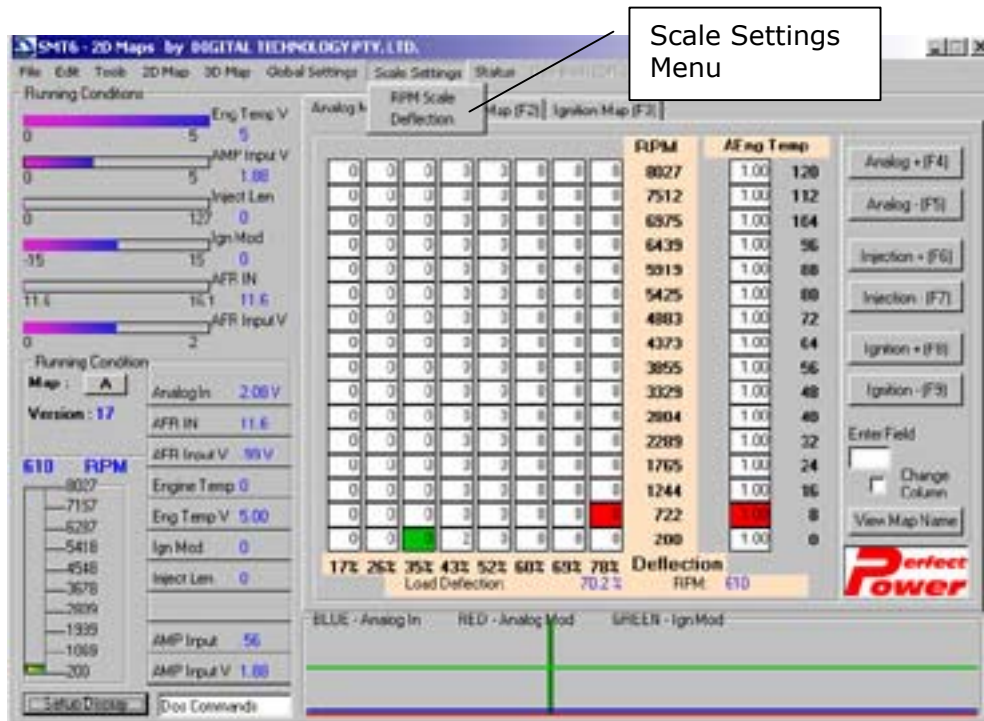
In the "System Config" tab, some of the features of the SMT6 can be enabled or disabled by selecting the "On" or "Off" radio button respectively. These buttons also determine the configuration of the incoming and outgoing crank signal.

Item	Description
Positive input pol	Positive input polarity.
Positive output pol	Positive output polarity.
Low level input	Low level trigger level, trigger level is set to 100mV for low level ON and to 2.5V for low level OFF.
High frequency	Adjusts the bandwidth of the frequency inputs from 10Hz – 3.3kHz on OFF, to 80Hz – 80kHz when turned ON.
Low deviation	Divides map changes by four
Interlaced signal	Divides the RPM display value by half (uses two inputs and results in 1 RPM reading).
One missing tooth	For missing tooth wheels with one missing tooth, e.g. 36 teeth wheels.
Multi coils	For multi coil stand alone applications.
Nox injection	Injector cycle time is switched away from RPM to a stable 38Hz signal.
Lambda input	Redirects analog input to the lambda input.
Lambda un-linear	Fuel modifications on map make changes according to a non-linear curve.

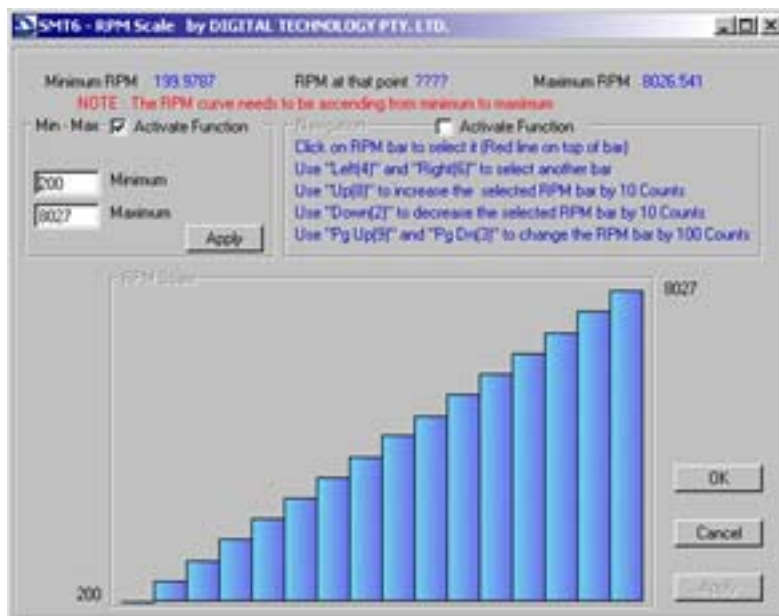
8. SCALE SETTINGS

RPM and Analog deflection scales are used to calibrate the limits of the RPM and Analog deflection.

Click on "Scale Settings" on the Menu Bar and select either RPM or Deflection.



8.1 RPM SCALE



To make a linear scale from minimum to maximum, place a numerical value in the minimum block, as well as the maximum block (under "Min - Max"). Click the "Activate Function" check box and then click on the "Apply" button. This will update the bar graph to the new maximum and minimum values.

There are 16 bars in the bar graph and each bar represents a single step on the map. To modify a single bar, use the keys as described under "Navigation". Once you have made the necessary changes, click on the bottom "Apply" button for the changes to take effect. Once all changes have been made, click on "OK".

Note: When setting the RPM column you should not make it lower than 600 RPM. It is advisable to get it to idle on the second row from the bottom moving up, and not the bottom (first) row.

8.2 DEFLECTION (THROTTLE)

The analog "Deflection Scale" works in the same way as the RPM scale setup. The only difference is that there are only 8 bars (steps) in the scale instead of 16.

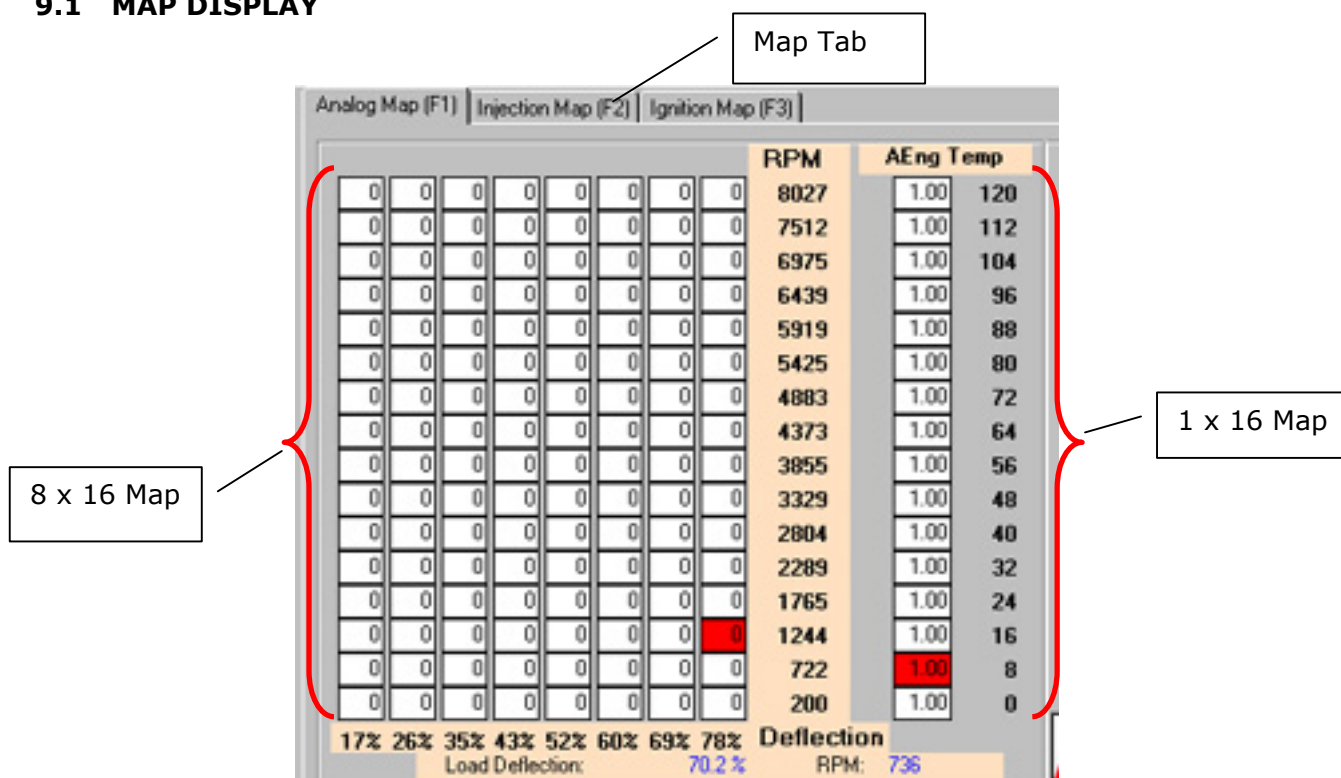
The AMP and Temperature scales can only be setup using the DOS commands. A detailed description is given in the SMT6 Developer's Manual.

9. MAPS

The actual tuning is done using the Maps. Values in the maps are used to modify the signals going into the SMT6 unit and allow you to specify the amount of change at certain set levels.

The windows software is capable of displaying 2D and 3D maps.

9.1 MAP DISPLAY



Maps can be switched either by clicking on the map tabs or by pressing F1, F2 or F3 on the keyboard.

The map is made up of one 8 x 16 map (vertical movement is RPM, horizontal movement is deflection), and one 1 x 16 map (linked to the AMP or engine temp sensor).

RPM, temperature and AMP Scale calibration is discussed in the section "Scale Settings".

9.2 2D MAPS

Although there is a Menu item called "2D Maps", you can select the map you want by clicking on the relevant tab on the Main Screen.

Map values are entered in the white box labeled "Enter Field" on the right hand side of the main screen. When you click in the map cell to change its value, the cell will turn green. This cell can be selected either with the cursor keys or by clicking on the cell with the mouse. Once you enter your value in the "Enter Field" box, press "Enter" on your keyboard. The value will be entered in the highlighted block on the map.

An entire column can be changed by selecting "Change Column". The entire column will be highlighted in green on the map and any value entered in the white box will fill this area.

The red cursor on the map screen shows where the engine is running, you can increment values at this point by pressing F4 – F5 for analog, F6 – F7 for injection and F8 – F9 for ignition.

9.2.1 ANALOG MAP (F1)

The Analog map is responsible for changes made to the analog signal. The main 8 x 16 map modifies the analog signal according to RPM and analog deflection values. These changes are then multiplied by the values in the 1 x 16 row map, which is mapped according to the engine temp sensor. The values in the analog map range from -127 to 127, each value of 1, changes the analog out signal by 0.039V.

9.2.2 INJECTION MAP (F2)

The Injection map controls the injector open time of the extra injector driver. The proportional Nitrous control is also controlled via this map.

The modes are changed by selecting "NOX Injection" to "Off", in "System Config" under "Global Settings". With "NOX Injection" disabled, the injector is turned ON for the time specified by the map after every pulse received from the CB1 signal. If the ON time exceeds the space between pulses, the injector remains ON the whole time.

When the "NOX Injection" mode is enabled by selecting "On", in "System Config" under "Global Settings". The one time is cycled according to a stable 38hz timing sequence. This mode is more suitable for nitrous solenoids and is in proportion to nitrous activation.

A value of 1 on this map turns the injector ON for 0.1ms.

Values in the 8 x 16 map are multiplied by values in the 1 x 16 map. This map is linked to the AMP sensor input.

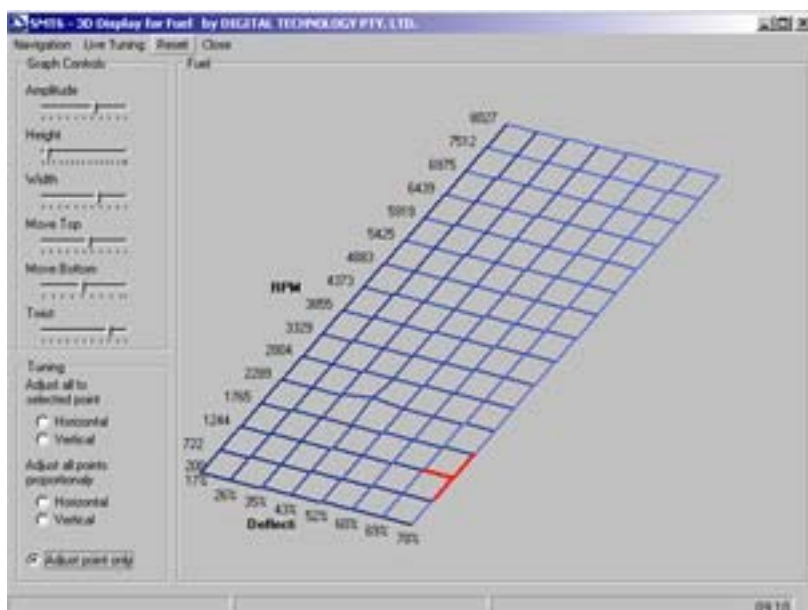
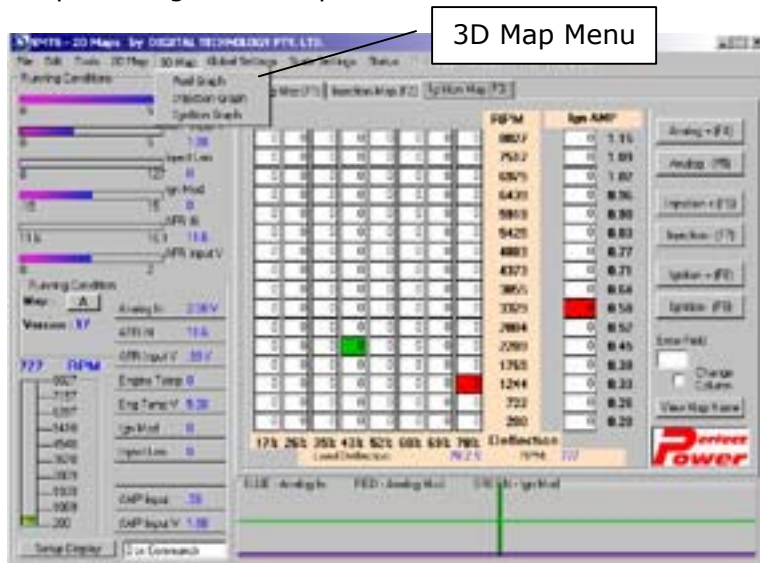
9.2.3 IGNITION MAP (F3)

The ignition map makes timing modifications to the ignition signal. Each value of 1 will change the ECU's original signal by 1 degree. The limits of this map are determined by the ignition retard and advance limits in the "Global Settings".

The 8x16 responds to the same stimulus as the analog map, ignition timing is then added or subtracted from the main map by the 16 row map on the left of the screen, which is connected to an external AMP sensor.

9.3 3D MAPS

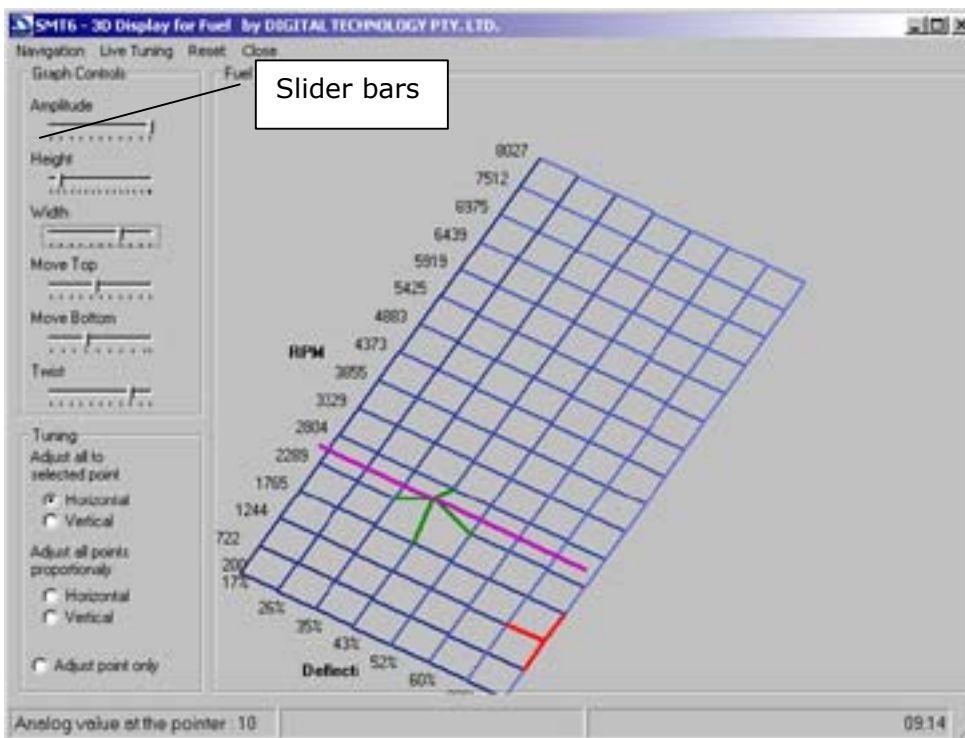
By clicking on the Menu item "3D Map" you will have three options: Fuel Graph, Injection Graph and Ignition Graph.



The above screen shows the Fuel Map. Please note that the 3D maps only deal with the main 8 x 16 map. There is no 3D representation of the 1 x 16 row map found on the right hand side of the map section. The red cross, shows where the engine is running, while the green cross shows the cursor position. Buttons F4 - F9 can be used to modify the green cross's height. When you do this, the gradient on this point of the graph will move up or down. Green cross positions are modified by pressing the "Page Up" and "Page Down" keys or "+" and "-" keys, on the keyboard.

You also have the option of raising entire rows or columns proportionally or at the selected point only. The following map shows a horizontal proportionate change. This is done by adjusting all points proportionally on the left of the screen. You can do this horizontally or vertically. It raises the entire row by the same value.

The next screen picture (on the bottom left) shows a selected point change. Click on the relevant "Horizontal" or "Vertical" radio button under "Adjust all to selected point". The entire row is raised to the same point as the selected point.



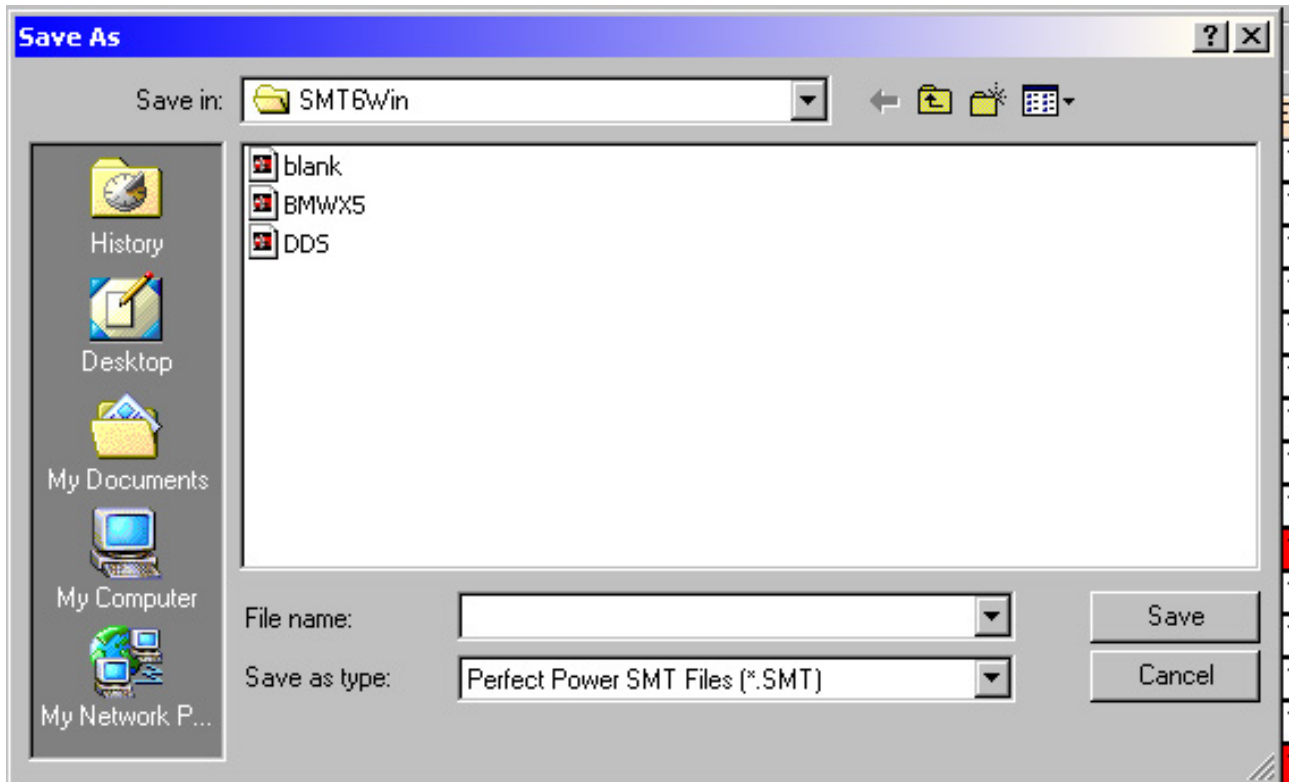
Adjusting the slider bars on the left of the screen can also change the appearance of the graph. These bars will allow you to rotate the graph to the best viewing angle for your application.

10. SAVING AND BACKING UP MAP FILES

Once you have completed your installation, you can save your work to your laptop or PC.

10.1 SAVING FILES

To save a file, click on "File" from the Menu Bar and select "Save" or "Save As". Type in your filename, and click on the "Save" button.



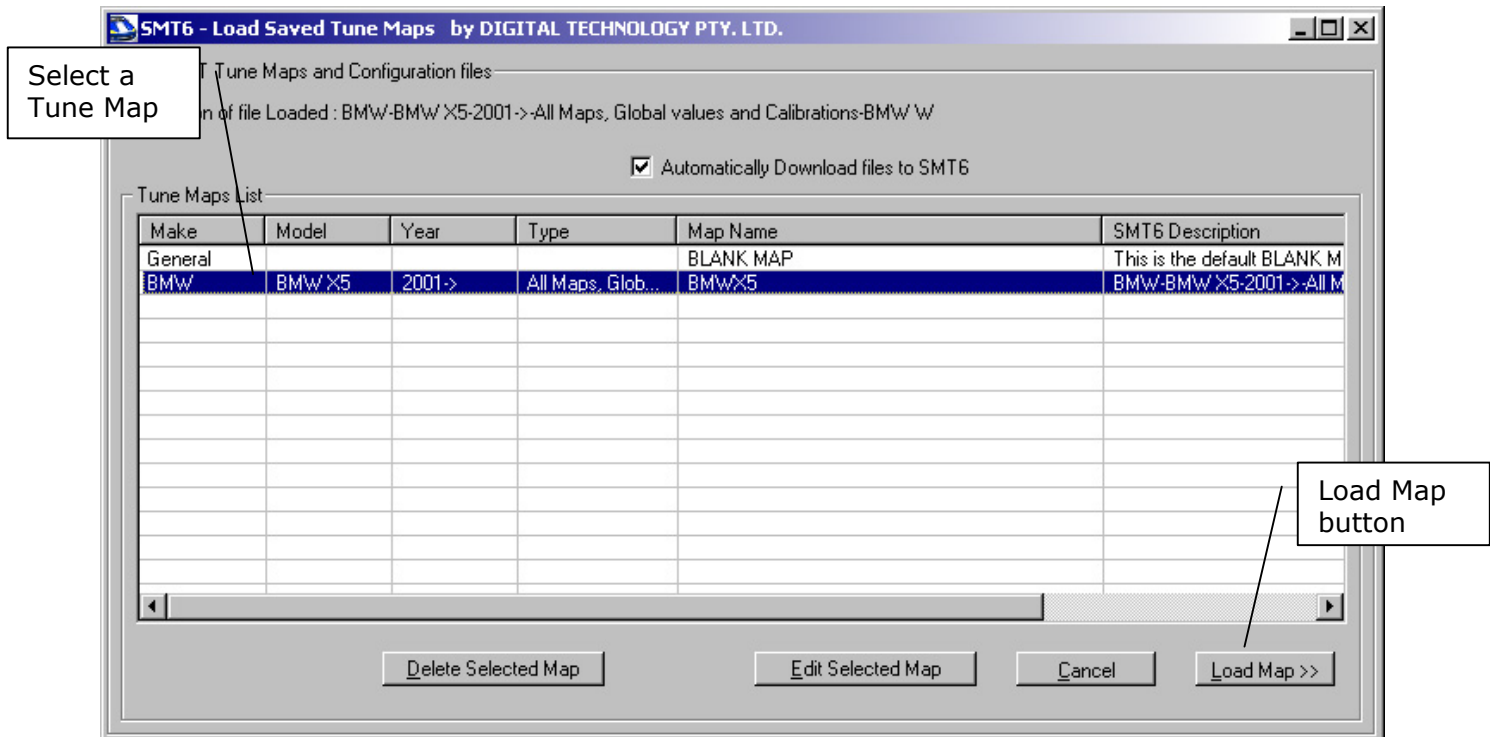
You will then get a dialog box, which will allow you to select the make, model, year, type of map, map name and file name of the file you are saving. Type in the details and click on the "Save" button to save the file.



10.2 LOADING NEW FILES

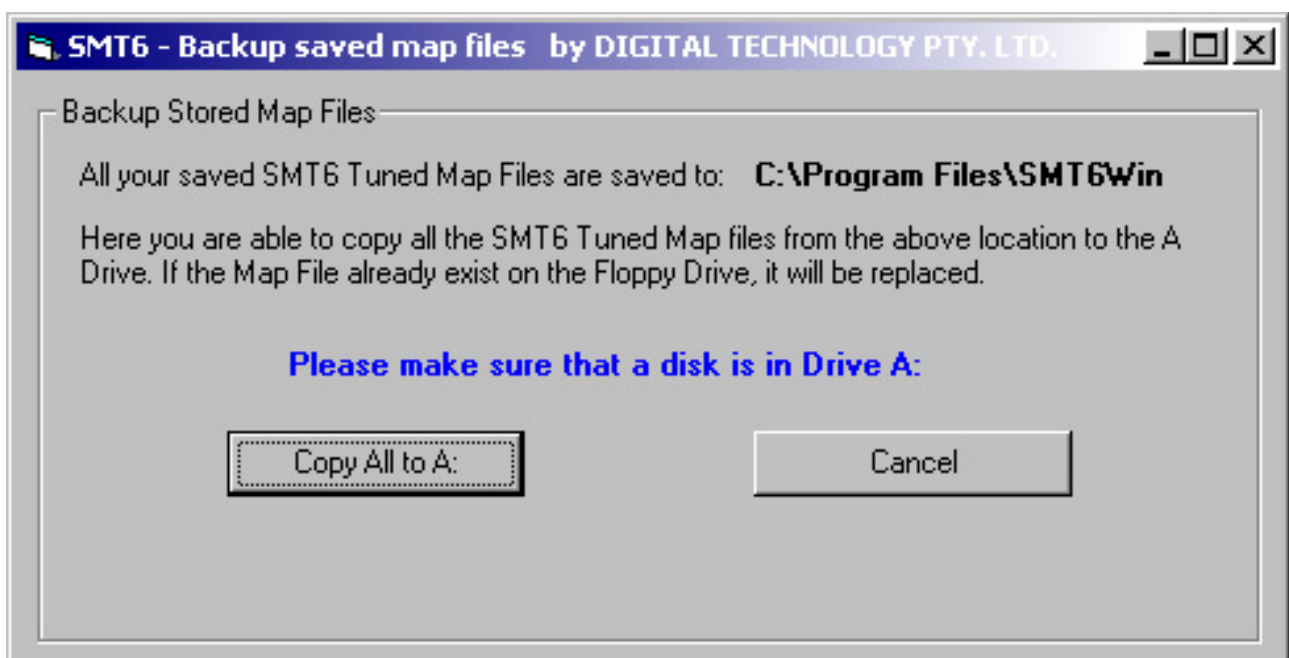
To load a new file, click on "File" from the Menu Bar and select "Load Tune Map". A screen called "Load PRS Tune Maps and Configuration files" will be displayed.

Select one of the maps from the list and click on the "Load Map >>" button. This will take the selected map and download it onto the SMT6 unit.



10.3 BACKING UP

It is advisable to "back up" your work periodically. To do this, place a blank floppy disk into your floppy disk drive (this is usually the "A:" drive). Click on "File" on the Menu Bar, and select "Backup Maps to A:". Your file(s) will then be backed up to the disk.

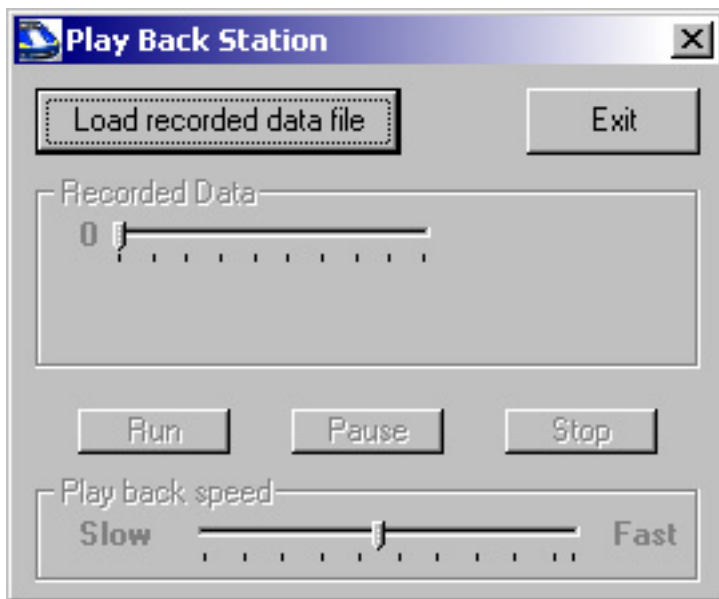


When you want to restore the backed up files, place the disk with the relevant backed up files into the floppy drive. Click on "File" on the Menu Bar and select "Restore Maps from A:". Your file(s) or map(s) will then be restored to your tuning directory.

11. OFFLINE MODE AND PLAYBACK FEATURE

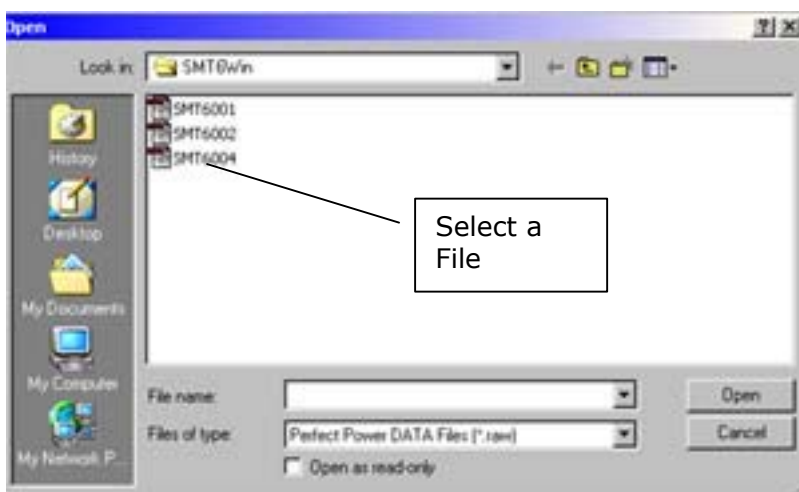
In the "Off Line" mode you can modify files/maps and save them without having an SMT6 connected to it. This mode can either be enabled on the first dialog box during Start Up or by selecting "Off-line" from "Status" on the Menu Bar.

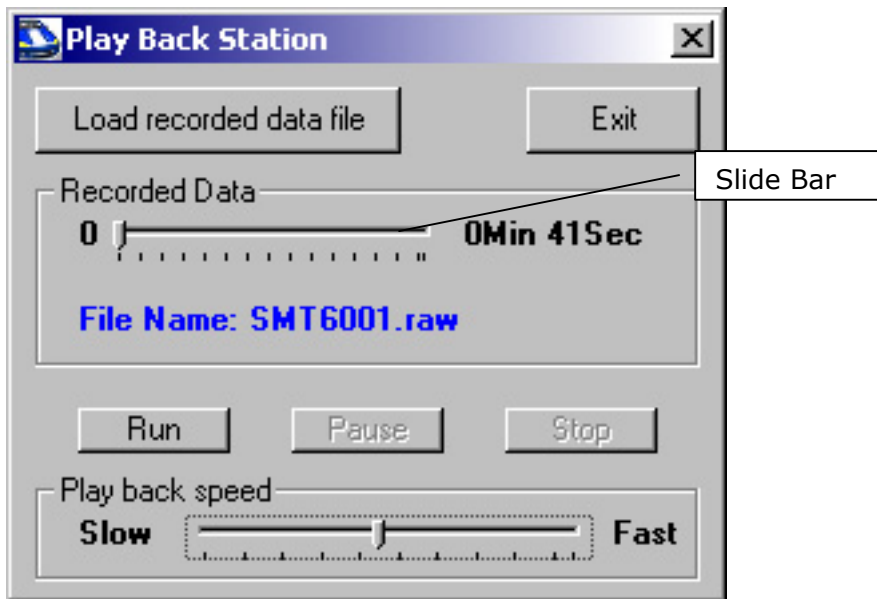
While you are in the "Off Line" mode, you have the option of running the playback feature. This feature loads a previously saved log file or map and simulates the log file conditions, based on the data in the log file. To do this, click on "Play Back (Off-Line)" on the Menu Bar.



Once the "Play Back Station" screen appears, you can move it somewhere else, as it may block something on the SMT6 Windows Tuning Screen. To move the "Play Back Station" screen, click and hold on the screen name or blue bar and drag to your preferred place. When you open the "Play Back Station" screen again, the program will remember where you last moved the screen and appear in the same place.

Click on the "Load recorded data file" button on the "Play Back Station" screen to select the file to play back. Once the file is loaded, the other buttons and the slide bars on the screen will be enabled or active, as seen below.





Use the "Run", "Pause" and "Stop" buttons to control the "Play Back" of the recorded file. If you want to change what the Tuning Software displays, you can make the changes in the "Setup Display", as described earlier in this manual. The changes you make will be displayed on the screen when you "play back" the logged file.

By clicking on the "Recorded Data" slide bar, you will be able to fast-forward or rewind the "play back". The "Play back speed" slide bar, allows you to slow down or speed up the "play back" speed. By default, the SMT6 records 10 readings per second, so by adjusting the "Play back speed" slide bar, you are able to adjust the amount of readings played back per second.

Item	Description
Load recorded data file	Load the log file you want to play back
Recorded Data	Displays the total time of the recorded log file and allows for quick fast forward by dragging the pointer to the desired position.
Running Time (in Minutes and Seconds)	Indicates the present time within the play back file
File Name: XXXX.raw	The file that is being played back.
Run	Start the play back from the beginning of the file.
Pause	Pause the play back.
Stop	Stop the play back.
Play back speed	By default the log file records 10 readings per second. By adjusting the speed, you are able to vary the number of readings played back per second.

12. CUSTOMISATION

You can request Perfect Power to modify the SMT6 configuration file. This modification will enable two options: "Branding" and "No-Tune". By changing the configuration file, you change the way you work with your SMT6 software, especially when saving and loading map files.

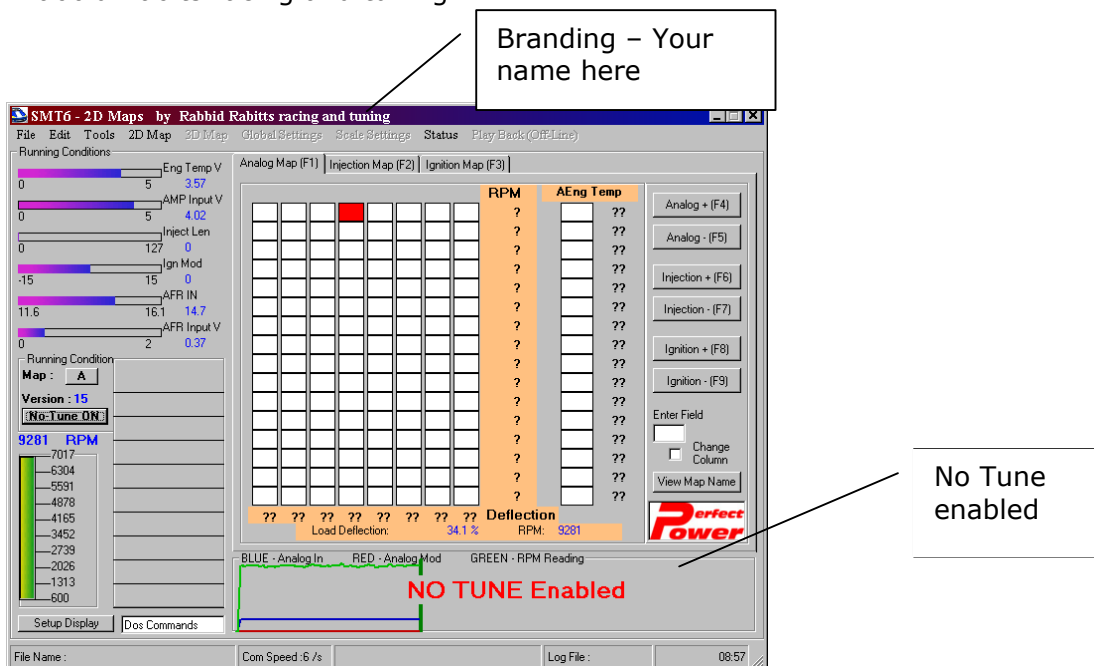
- **Branding**

Your company details can be downloaded into the unit and will be displayed on the tuning software every time it is used. An SMT6 unit's branding information is only displayed after the unit has been written to, by the branded software and then reset. This change or update can only be done by the manufacturer. The unit's branding information will only be overwritten if it is accessed and downloaded by other software with the branding option enabled.

- **No-tune**

This allows you to hide the tuning maps that you have tuned in the SMT6. You can bypass this option by either clearing the unit with a clearing program that can be obtained from Perfect Power, or simply load a new map. If you select either of these options, you will lose the hidden map (as it will be overwritten) with the new map.

The following is an example of a unit with the no-tune option enabled. See the details in the line graph at the bottom of the main screen. The branding is shown in the top screen name as "Rabbid Rabbits racing and tuning".



Once your configuration file has been enabled for Branding and No-Tune, click on "File" on the Menu Bar and select "No-Tune" or "Branding". Please note that these options will only be visible, if the configuration file has been modified to enable them. The option, once selected, is activated in the unit when information is downloaded to the unit.

13. CONCLUSION

We suggest that you also check the various "Application Notes" (available on the SMT6 Developers CD). These notes provide useful tips and hints from various applications with the SMT6 unit.