

Piggy-Back Products.

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Piggy-Back systems work with an existing ECU (Engine Control Unit) and therefore do not replace the vehicle's original ECU. Piggy-Back means just that - to "piggy back" or go on top of something else. Other words for piggy-back are "chipping" or "add-on".

Perfect Power Products.

All products are manufactured by Digital Data Systems (Pty) Ltd in Johannesburg, South Africa. Digital Data Systems is a proudly South African company being the holding company for the Perfect Power brand of products and we have been in business since 1972. With German engineers at the helm, you can expect quality at an affordable price with innovative features.

Perfect Power specializes in the design and manufacture of fuel injection systems for every application from your everyday street car to your high-tech performance car.

All our products are made to the highest international standards with our advanced production facilities. We strive in making our products better and better each time. We do offer our spare production capacity out to our clients and we also offer custom made OEM products that suit our client's requirements and budgets. Please inquire at info@ddsystems.co.za with OEM in the subject for more information.

Brought to you by dds.

The logo features a large, stylized white letter 'P' on a red background. To the right of the 'P', the words 'Perfect' and 'Power' are stacked in a bold, italicized, white sans-serif font.

All our products are assembled by SMT (Surface Mount Technology) machine and then computer tested against a go / fail test procedure. Only once they pass all the tests, then only do they enter into the next phase. All products are then heat soaked for a period of 24 hours and then re-tested to make sure there are no component failures. This process ensures that the product you buy will last forever and give you years of service.

All Perfect Power products are powerful "real time" programmable fuel injection and ignition computer systems. High speed communication is achieved from USB communication. LetRipp II tuning software is used to manage the tuning, in real time, with all of our modern tuning units. The software was designed with tuners in mind and has many features to assist in the chip tuning process. All our products have extensive help documentation, application notes, FAQ and manuals that will answer almost every question you might have. Email info@perfectpower.com for support.

The Perfect Power range of products falls into three major categories: Stand Alone Systems and "Piggy Back" or Add-on Systems and "Accessories and Peripherals".

Warranty.

Perfect Power unit(s) come with a 12 month warranty on the electronics, excluding the drivers, from shipment date. The warranty will fall away if:

- The unit(s) has / have been tampered with.
- The unit(s) has / have been abused, misused or incorrectly maintained.
- The unit(s) has / have been incorrectly installed.
- The unit(s) was / were not tested on receipt.

If the unit(s) was / were damaged in transit, then the dealer from whom the unit(s) was / were purchased, will replace it as soon as possible.

Please note that if the unit(s) has / have been working fine for a while and then fails, it could be because of one of the following:

- The unit(s) has / have been damaged in installation (not covered by warranty)
- One of the internal drivers has been destroyed (not covered by warranty)
- Malfunction of electronics (warranty claim)

The damaged unit(s) will need to be sent back to the factory, by your dealer, for inspection and a new unit(s) needs to be purchased to replace it. If the problem is a manufacturing fault, the cost of the unit(s) and shipping fees will be refunded. However, Perfect Power will not be held liable for the cost of removal, reinstallation, dyno time and mapping of the unit(s).

Perfect Power unit(s) need to be returned to your relevant dealer before any claims procedure can begin. PRS and SMT units CANNOT be repaired

DISCLAIMER

Under no circumstances will Perfect Power be held responsible for any incidental, indirect, specific or consequential damages arising from the use of the unit(s).

RETURNS

All returns need to be authorized in advance. Please contact us on +27 11 792 9805, or info@perfectpower.com for authorization.

Warranty.

Please return the goods to one of the following addresses:

For returns by post :

Digital Data Systems (Pty) Ltd
P O Box 1577 Bromhof
2154 South Africa

For returns by shipping company :

Digital Data Systems (Pty) Ltd
22 Arbeid Avenue
Strijdom Park, Randburg
South Africa

All returns must be sent prepaid and no collect shipments will be accepted. Please ensure the parcel for its full value. If we determine that we are at fault for the return, we will refund the shipping costs.

We cannot accept returns on custom ordered parts. We also cannot accept returns on used or installed parts, parts not in their original packaging, parts that are not in a resalable package and parts that have come into contact with oil, coolant or fuel.

Contact.

Email : Info@perfectpower.com
Tel : +27 11 791 5947
Fax : +27 11 792 9818
Physical Address : 22 Arbeid Avenue, Strijdom Park, Randburg, South Africa, 2194
Postal Address : P.O. Box 35872, Northcliff, Gauteng, South Africa, 2115



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Smart Tuner 8 Tiny

Introducing the latest piggy-back product from Perfect Power - the SMT8-T universal piggy back tuning chip. The SMT8-T has been designed to tune almost ANY electronically fuel injected engine.

Signals are modified on maps found within the SMT8-T unit itself and the Windows intuitive LetRipp II Tuning Software. Installation and tuning is simple and once installed the engine can be re-tuned by anyone with a laptop or PC, communication cable and the LetRipp II Tuning Software with ease.

An average installation consists of connecting 6 wires to the vehicle's ECU wiring loom, changing the settings of the SMT8-T in the setup section of the LetRipp II Tuning Software and voila - you are ready to re-tune the vehicle. An experienced installer can install an SMT8-T unit within 30 minutes. Packed with similar features to the SMT6, it is affordable and compact too!

The digital display output allows for multiple parameters from the SMT8-T to be displayed in real time inside the cockpit without the need of a computer or laptop. The live data read out of your Lambda (AFR) will aid you to improve your driving style resulting in better fuel consumption. There are over 16 values that can be selected in the LetRipp II tuning software for the display, making it totally customizable.

The analogue map is a large 384 load cell map for precise tuning. The analogue tune map is referenced by Throttle/RPM, Engine Temperature and AMP, for the purpose of altering fuel at specific engine conditions. An ignition map is a 384 load cell map and is used to tune crank, advance and retard and the ignition signal in 0.5 deg steps for the optimal accuracy.

The SMT8-T can drive one extra injector (4-13 ohm) for supplementing fuel at high boost. The extra injector can be controlled via Throttle/RPM, AMP and Engine Temp maps. This allows for precise fuel delivery at boost conditions - a feature which is very popular with turbo and supercharger installations.

The external display output is also new for the SMT8T series. It allows our digital display to receive data from the SMT8T and selectively display the desired value without the presence of a PC. The displays are small with bright attractive LED colour options. Multiple values can be displayed on a single display by simply toggling between them.

The Dyno setup screen allows for dyno type data to be displayed in real time to the external display. With a few simple setting and triggers, the SMT8-T can show you similar data as per your quarter mile time, distance and speed from intersection to intersection or while overtaking till a trigger is reached. It is very simple to setup and a very awesome feature to show off to your friends.

Protection is a great feature for the SMT8T. It protects your engine should something fail. The protection is optional and can be turned off. Most sensor inputs can be configured such that should they fall outside of their normal operating state then change the fuel or ignition to a state which will protect the engine. This feature looks after your engine so that you are still able to drive home.

The SMT8-T Tiny Tuner - Affordable Tuning!



SMT8T-UKIT

- 1 x SMT8T Unit
- 1 x SMT8T Harness
- 1 x Software download link

SMT8T-KIT

- 1 x SMT8T Unit
- 1 x SMT8T Harness

Features

- Injection Map with 384 sites
- Ignition Map with 384 sites
- Analogue Map with 384 sites
- Boost management Maps
- PWM/FREQ Map with 384 sites
- Balanced Inputs
- 3 Amp injector drive
- 0 -5 volt input range
- Small size
- RPM Calibration
- High RPM range
- Ignition tuning with compensation
- Encapsulated
- Very low power consumption
- Power supply voltage 8-36V

Benefits

- Fine tuning the extra injector or boost
- Fine ignition tuning
- Smooth tuning of fuel
- 72 sites in 2D to control accurate boost pressure
- For freq based air flow meter
- Inverted Outputs
- Handles 4 to 16 ohm injectors
- Allows tuning for most models
- Smaller than the SMT6, Fits Anywhere
- To suit your installation
- Ideal for racing
- Safely tuning your engine with protection
- For Moisture and Dust protection
- Has less interference to the host ECU
- Bad voltage spikes or dips will not effect the operation

Features

- All inputs Protected
- Various ignition outputs
- Dyno Setup screen
- Auto Programmable Cylinders
- Ignition output limit
- Can handle interlaced signal
- Easy Tuning Software
- Missing Tooth Signal
- 20 MIPS computing
- Signal Conditioning
- Start Seconds
- Analogue Limits
- Protection
- Firmware Re-flash
- High speed USB 2
- Load Default
- Lambda modification
- AMP Calibration
- Engine Temperature Calibration
- TPS Calibration
- Real time error detection
- Data Display
- Data Logging
- Logging Playback
- Profiles
- All main maps have two side maps

- AMP extrapolation
- Inverse TPS
- Test Simulation

Benefits

- No mishaps while installing
- For the most stringent applications
- Road Dyno setup for the Displaying real values
- It works on any amount of cylinders
- Limits max. advance and retard
- For 4 cylinders ignition output tuning
- Managed by LetRipp II Software, intuitive interface
- For up to 2 teeth advance/retard
- To facilitate quick engine response
- To prevent miss trigger
- Delay ignition control from cranking
- Clamp analogue signal going to the ECU
- Under extreme conditions, save the engine
- Update the Firmware code via USB port
- Fast USB communication for high data transfer
- A pre-programmed set of Default maps
- Modification of Lambda sensor readings
- To suit your installation
- To suit your stock engine sensor
- Load or Deflection calibration to suit your installation
- Real time indication of errors with in LetRipp II software
- Real time assignable indication of input/output values
- Real time data logging of all data onto PC
- Playback into software, emulating connected SMT8T
- Store convenient software screen layouts
- Engine Temp and AMP provide a realistic tuning dimension
- Switchable for even smoother pressure transitions
- For those 1.8T Audi and VW, i.e. GTI applications
- Onboard test simulation for offline engine conditions