

E6K System Danie Management Systems E6K System Danie Management System Danie Management Systems E6K System Danie Management Danie Management System Danie Management System Danie Management System Danie Management Danie

E6K System Description

E6K Specifications

The HALTECH **E6K** is a powerful "real-time" programmable fuel injection and ignition computer designed to control most ignition type engines. Whether 1 - 6, 8, 10 or 12 cylinders, 1-2 rotors, naturally aspirated, turbocharged or supercharged, the HALTECH E6k can control it.

Compared to the Haltech E6M the E6K features:

4 additional pulse width modulated outputs 8 injector drivers as standard equipment An Internal barometric pressure sensor Enhanced BAC valve control Enhanced wastegate control

The E6K is capable of controlling up to 8 low impedance or 16 high impedance injectors. If necessary an additional driver box can be added for more injector outputs. The **E6K System** optimises engine performance by giving full control over the following:

User Configurable Outputs:

- *Closed loop idle speed
- *Electronic boost control
- *Thermofan
- *BAC valve
- *Shiftlight
- *Stall saver
- *Rev limiter
- *Turbo timer *VTECH
- *NOS enable
- *Aux. fuel pump *Anti-lag
 - *Staging signal
 - *Torque convertor

*Intercooler fan

*Dual intake valve

*Closed loop 02 Sensor

*Deceleration fuel cut

*Air con (not all functions are available at the same time)

The E6K is much more than a programmable engine management computer - it provides logging of engine data and allows access in real time to maximise performance and trouble-shoot problems in a vehicle while running.

Typical Applications:

Conversion from carburetion to fuel injection Control of fuel injection/ignition on modified engines Race and rally applications of all descriptions Design and development purposes Educational use by universities and colleges Original equipment in cars and motorcycles

The patented HALTECH system of programming virtually eliminates the input of numbers. You simply manipulate graphics in the form of bar graphs and by pressing arrows you increase or decrease the amount of fuel or ignition timing delivered at that particular load point.

Kit Contents:

Electronic Control Unit (ECU) Main Wiring Loom (flying lead) 2 x Power Relays Air Temperature Sensor Coolant Temperature Sensor Injector Loom (supplied with full harness kit) Throttle Position Sensor Communicating Cable Programming Software Instruction Manual MAP Sensor (Extra Cost)

System Features:

Number of Cylinders: 1-6,8,10,12 and 1-2 Rotors

Max Operating RPM: 16000 rpm Injector Firing RPM Range Inc: 500/1000 rpm Mode: Max. Range: 10500/16000 rpm Throttle Body (Batch) Number of Fuel Maps: Number of Ignition Maps: 22/17 Number of Bars per Map:

Fuel Correction Maps:

Coolant Temperature Air Temperature Battery Voltage **Cold Primer** Zero Throttle Full Throttle Injector Phasing (Seq. only) Throttle Pump Injector Trim (Seq. only) **Barometric Pressure Correction**

lanition Correction Maps:

Ignition Crank Air Temperature Coolant Temperature

Trigger Signal Type:

Inductive Magnetic-(Internal Signal Conditioning) Hall Effect Sensor **Optical Sensor**

Trigger Pattern:

Twin Trigger Multi-Tooth Subaru Single Pulse per Cycle Bosch Motronic (60t - 2) Nissan Mazda/Ford FS engine

Ignition Configuration:

Twin Distributor Twin Rotor (Dist. or DF) Single Distributor Direct Fire (1 - 4) & 6, 8 Cylinder Wasted Spark

Sequential (up to 4 banks) Multi-Point Staged

ECU inputs:

MAP Sensor Coolant Temperature Air Temperature Throttle Position Internal Barometric Sensor Primary Trigger Secondary Trigger Oxygen Sensor Spec. Purpose Digital Gen. Purpose Analog Boost/fuel/ignition trim

ECU Outputs:

Injector Drivers: 8 Fuel Pump Relay Control Dedicated PWM Outputs (4) Idle Air Control (IAC) Ignition Output Spec. Purpose Digital (1)

Accessories:

Idle Air Control Motor Boost/Fuel/Ignition Trim Module Ignition Module Oxygen Sensor Electronic Boost Bleed Valve Ignition Coils